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A VISIT TO THE NAGOYA EXHIBITION, JAPAN

By R. G. LOVELL

Illustrations from Original Sketches of the Exhibition Buildings by the Author

NAGOYA is a flourishing commercial city of about 250,000 inhabitants. It is the largest town between Tokio and Kyoto and has made rapid strides in progress within recent years. It is now one of the leading cities of the Empire and has attracted a considerable amount of enthusiasm throughout the country in support of its excellent exhibition. This is the tenth national exhibition which has been held in Japan and it is on a more extensive scale than any of the previous ones. A hundred acres have been set apart for the ground and buildings, the total cost of which has been borne by the Province of Aichi, of which Nagoya is the chief town.

The city's famous castle looms up high above the city. Two gigantic golden dolphins which adorn the roof seemed to glide and glitter from the top of the five-storied donjon. The eyes are of silver and the scales of pure gold. Each dolphin is valued at £18,000 sterling and measures over 8 feet in height. To the great distress of the inhabitants, one of them was wrecked on the journey back from the 1873 Vienna Exhibition; misfortune to the town followed for some time, until after great difficulties the sunken dolphin was at last recovered and restored to its original position, amidst public rejoicing of the citizens.

The approach to the long line of white exhibition halls is very imposing. In front of the main entrance is a large cascade arranged in a terraced basin and surrounded by ornamental shrubs and flowers. This is directly in front of the main entrance, which is capped by domes and flanked on either side by wide curving colonnades. These colonnades terminate with small towers which are used as the ticket offices. From the rough sketch I send it will be seen that the architects have followed the traditions of the French Renaissance. They have possibly been more successful with the machinery hall, which is a good piece of Art Nouveau work. The music pavilion, built on a granite base, is in good proportion, the dome ornamented with musical signs and the iron railing made to represent musical notes.

Architecture, as we understand the term, is not natural to the soil of Japan. The marble temples of Greece and Rome, the Gothic buildings of Northern Europe or even our own manor houses of brick and stone could have no place in this land of earthquakes and

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tremors. The Shinto temples of Old Japan are famous for the lavished efforts of the wood carver and the painter, not for the skill of the builder or architect. The buildings are of wood, wattle and paper, and the roof of thatch or tiles; the only pretence to foundation being a large stone placed upon the ground for the main uprights to rest upon.

With these traditions, it is interesting to observe how these clever people solve the problems in constructing buildings in the “Foreign Style.” Many of them have been students in Europe and America and have now established their own architectural schools. My friend, Mr. Teiji Suzuki, one of the architects of the exhibition, is also Professor of Architecture at the Higher Industrial School, Nagoya. Mr. Suzuki explained that the total cost of laying out the grounds and constructing the exhibition buildings was about £75,000. The main halls alone cover an area of 50,000 superficial yards. The construction itself is essentially Japanese; although clothed in foreign style to represent stone and stucco, it is formed of wattle, bamboo and plaster. This then must be the secret which enables such a startling result to be produced at so small a cost.

To a foreigner like myself the smaller buildings in the native style produce a more pleasing effect. It does not gratify our friends and allies to be told this. They boast that they have done in forty or fifty years what it took us in Europe many centuries to accomplish! They certainly appear to be prouder of their more recent efforts than of the works of their predecessors.

One of the most attractive buildings in the grounds is that erected by the Formosan Government. It is more Chinese than Japanese in design, but to our foreign eyes it appears to grow more out of the ground and seems part and parcel of the soil, and is very cleverly adapted to modern requirements.

On a hillside is reproduced one of the most famous buildings of Kyoto, Kinkakuji, or the Golden Pavilion. It is a delightful little three-storied building intended for the entertainment of notable guests who visit the exhibition. The original pavilion at Kyoto is all that remains of an extensive temple built at the end of the fourteenth century. It was almost completely covered with gold, nearly all of which has since disappeared, although the original work remains and bears testimony to the beauty of the work both of the painter and the carver.

There is a full-sized reproduction of Nagoya castle, which appears almost superfluous with the original so near at hand. In a typical Japanese building the Imperial household are showing a special exhibit of forestry; here may be seen the different kinds of wood from the forest reserves of the Imperial family. The supports are rough trunks of trees representing different species, and the ceilings are panelled to show to best advantage the grains and quality of the wood. I understand that the Imperial Household has never taken part in an exhibition before.

The Japanese home market is being gradually closed to us Europeans. Although one hears a great deal of the open door in Manchuria and Korea, the economy of cost and facility of transport must in time surely preclude our goods from these markets also. And why not? The industry, sobriety and thrift of the Japanese entitle them to all the advantages they can gain. They are a peaceful people weary of war of weapons, but keen for commercial competition. They have all the advantages on their side. The great lesson for us at the Nagoya exhibition is to remember how little there is for the Japanese still to learn.

Nagoya was the first city in Japan to make clocks and is noted for its manufacture of violins, porcelain and cloisonne ware; as may be supposed there is an extensive collection of these goods. The best Nagoya cloisonné is quite distinctive from that made at Kyoto or Tokio. The basis of the vase is of silver, often beaten up into the design, such, for instance, as in water and wave pictures, wires are also soldered on as in the usual work, but the enamel employed is for the most part transparent, so that very delicate results are obtained by the silver shining through the glaze.

The collections of the recognized Japanese products did not detain me long, except to observe the quantity and variety of the exhibits. The general impression being that quality did not seem now to be the dominating character of Japanese industries. The most lasting impression that I brought away was the extraordinary progress made by these clever people in reproducing the products of European manufacturers. The largest exhibits were those of dyed goods and woven fabrics. It would be a revelation for our Lancashire and Yorkshire friends to see the working models of looms and appliances produced by the nimble hands and brains of these sons of Nippon. They seem to be able to turn out practically all that we can do.
monies" give frequent exhibitions of their skill. These functions appear monotonous to a European, but are of fascinating interest to the cultured Japanese.

Another attraction of exciting interest is the cormorant fishing, a custom kept up to the present day in many districts. These great ungainly sea birds are trained when quite young to assist their masters. The fishing takes place at night and by torch light. The fish are attracted by the light. The bird wears at the base of its neck a bone ring, tight enough to prevent marketable fish from passing below it but at the same time loose enough to admit the smaller prey which serves as food. The master stands at the head of the boat and gathers into his hands the stiffened cord, which is attached to each bird, as he lowers them separately into the water. An expert man can thus control a dozen birds, but has a very busy time, as the cormorant sets to work diving and ducking with wonderful swiftness. The master must have his eyes everywhere and his hands following his eyes and he must handle his reins so deftly that there should be no fouling as the birds dash hither and thither. Specially must he watch for the moment when any of his flock is gorged, a fact generally made known by the bird itself when it swims about in a foolish, helpless way with its head and swollen neck erect. The master hauling in on that bird, lifts it aboard, forces its bill open and squeezes out the fish, then starts it off again on another expedition—all this with such wonderful dexterity that the other birds have no time to get into a tangle.

The exhibition grounds are very tastefully laid out. The gardener has made the most of every natural feature, the show of flowers and shrubs was good but the condition of pathway and road left much to be desired. At night the buildings are illuminated with electric light, and there are frequent fire-work competitions.

**POLYCHROME TERRA COTTA**

*ITS INCREASED USE AND RAPID DEVELOPMENT*

The use of artificially colored terra cotta has developed with a rapidity little short of startling. Fortunately the more important work has usually fallen into the hands of well known architects who have been able to develop it with discretion; though their efforts are not always entirely free from that tendency toward extravagance which usually attends the introduction of new methods or materials.

On the whole, one is justified in saying that discretion has been used. This is the more necessary because the innate tendency of men is usually toward bright color until the restraining influence of a trained judgment is felt, and especially so in more northerly climes where veiled half-tones are better suited to our more clouded skies, with their diffused lights, which bring out all those nuances and subtle values which sunlight kills.

Polychrome architecture, therefore, requires the nicest judgment with an ample background of experience as it is difficult to foresee the effect of new colors and combinations and the modifications due to varying distances from the eye and heights above the ground.

The accompanying illustrations show some recent work in this direction as well as it can be shown in monotone reproduction, but supplementing these views by a verbal description the total effect can be pretty accurately imagined.

The inclination to use gray as a basic tone, enlivened with green and old gold, is one of the more recent developments. Churchill's restaurant, Broadway and Forty-ninth Street, New York (Herbert M. Baur, architect), is a good example. Gray actually predominates in surface extent but is insignificant by contrast with the more lively colors. It serves the purpose of differentiating the architectural features from each other and yet binds them together. The spandrel panels are of green tile, the modeled architrave is decorated in old gold and green, and these colors are repeated in the cornice. The parapet and ornamental pediment are of light gray terra cotta.

A rather unusual color treatment occurs in the Fourth Avenue Building, Fourth Avenue and Twenty-seventh Street, New York; Charles A. Valentine, architect. Here the dominating tone is again gray. The building is sixteen stories high of gray brick and terra cotta. The spandrels from the third story up are gray with old gold flutes. In this feature the colors are not distinctly separated from each other but merge together into a soft warm color, and the result is excellent. The shield panels of the spandrels are outlined in dark blue, used rather to emphasize the modeling than to lend color value to the scheme. The pendant panels at the twelfth story are rather more prominent in gray, old gold and blue, and the brackets at the thirteenth story show stronger individuality in yellow, blue and gray. The spandrels of the three upper stories repeat the color scheme of the lower spandrels, but the modeling is somewhat different. The pilasters have central panels of bright yellow large enough to give true color value. The gray of the architrave is brightened with old gold, and the modeling is again defined with blue. Panels of rich sienna in the frieze give character, tone and warmth to the whole building, and add life to the lighter contrasting colors. The building ends in an overhanging cornice, its shadow relieved with colored ornament.

The Bishop Stanis Day Nursery, at Fall River, Mass., Mathew Sullivan, architect, obtains an excellent color effect by the use of bright red brick, white terra cotta, and Della Robbia Bambino panels in terra cotta with a Della Robbia blue background. There are but four panels, yet by what might be termed the unexpectedness...
of the blue backgrounds they catch the eye and accentuate the cheerfulness and life of the façade. It is a good example of what may be done in a small building with a very meager use of color.

A delicate and effective color treatment is used on the recently completed apartment house, 116 East Fifty-eighth Street, New York, J. E. R. Carpenter, architect. It is a good example of modeling supplemented by color. The terra cotta ashlar of the two lower stories is modeled in low relief, and free from color except for the yellow rosettes in the spandrels, next to the entrance. The entrance is elaborately modeled, but also in low relief and treated in yellow and white with slight touches of light green. The color is applied with intentional lack of exactness to avoid a too mechanical effect. In the belt course and brackets under the third story balcony, larger area is allowed for color to minimize the natural shadow. Low relief again occurs in the yellow and white balusters and panels of the balcony. With the exception of the yellow and white shield at the fourth story level the entire façade is pure white from the third to the seventh story. Here the balcony and its attendant features show green and yellow seemingly in the same ratio as in the lower balcony, but actually in a bolder way to overcome the diminishing effect of distance from the ground. The top story panels and the main cornice not only increase the color areas but use stronger colors to bring the scheme to a consistent conclusion. Green and yellow are supplemented by a warm old gold shade, and dark blue is used on backgrounds.

This building—thought not in the least spectacular—
shows to advantage the possibilities of polychrome terra cotta. Entirely of terra cotta from the sidewalk up, the large fields of rusticated ashlar indicate the convenience and simplicity of construction, while the varied colors and the modeling of the other features demonstrate its adaptability.

Undoubtedly polychrome terra cotta has come to stay, and now that the experimental stage is over, and the need of excessive caution passed, its development seems likely to be rapid. The architect can use color in a medium that lends itself easily to modeling—and color and form go naturally together. Moreover, terra cotta colors do not fade, are easily cleaned, and the material is absolutely fireproof and will last indefinitely.

The desirability of well arranged color in our everyday life cannot be overestimated. Aside from its artistic influence, scientists have many times, and we believe successfully contended, that temperament is largely influenced by the dominating color of our environment.

The man who has traveled abroad, and is familiar with the lavish use of color that prevails, particularly in Southern Europe, knows how important a part it plays in those countries of brilliant sunlight. How much more, then, is it to be desired, that in this country, where we have long periods of lowering skies, that in our walks about the streets we should be greeted with something better than the monotony of brick and stone that now confronts us. It is here the architect has his opportunity, keeping in mind as stated at the outset, that he should endeavor to avoid the glaring intensities of the primary colors, and use, with artistic judgment, the secondary and more subdued tones. The examples shown will serve to indicate the use of this new-old medium of expansion, and the means placed in the architect's hands by recent improvements in the manufacture of polychrome terra cotta.
ELMENTS of RENTAL VALUES of OFFICE BUILDINGS

An interesting paper on "Comparative Rentals of Office Buildings" was read by Mr. F. H. Heywood, of Columbus, Ohio, at the recent national convention of building owners and managers in Washington.

From a report of the proceedings in the October issue of Building Management we extract from Mr. Heywood's paper the following paragraphs as of immediate interest to architects:

The several items which go to justify differences in rates in different parts of the same building may be set down as follows:

First. The advantage of advertising upon the windows commanding a view of the principal street or streets. Though this is different in different cities and in different locations within the same city, yet instances may be noted where a corner room with windows facing two prominent streets and upon the second floor will rent for 40 per cent. more money than the same sized room at the same corner upon the sixth floor, and 130 per cent. more than the average of the building, 300 per cent. more than the low rate in the building, 17 per cent. more than the same room on the third floor; and 25 per cent. more than the same room on the fourth floor. Again this room commands 17 per cent. more than the room adjoiring it upon the principal street and 25 per cent. more than the room adjoining it upon the side street. The manager of the building, under consideration, tells me he has no trouble in getting from 50 to 100 per cent. more rent for rooms which offer advantages for advertising the tenant's business, either by having windows facing principal streets or entrance doors facing the elevators.

Second. Units or rooms with entrance convenient to elevators, or with the entrance directly facing the length of the corridor, in some buildings have added value.

Third. View and quiet.—The upper floor units nearly always command a higher rental, in some instances as much higher than the middle floor, as the advantages of advertising on the second and third floor are greater than on the middle floor. There is everywhere a class of tenants willing to pay for the view obtained from their office windows and for the quiet obtained by height above the noisy streets.

Fourth. Natural light.—In the West particular attention has been given to an effort to obtain natural light to each unit and as a result large areas have been devoted to light courts. Whether or not this pays is difficult to determine. I have at times been inclined to doubt it. You can nearly always find some tenants who are easily satisfied with artificial light if they can get a lower rental rate, and if you make your own current you can afford to simply figure fuel cost, when comparing extra cost of lighting these dark rooms with what you can get for them. Of course additional cost of construction and service must also be figured. But take a room on a light court with the view obstructed as it must be and very little if any natural light. At the bottom of the shaft you can get practically no more rent for it, because it has windows opening upon the court, than you could if it simply had good ventilation, which can be had without the windows, and you have lost the space upon valuable ground for many floors in a court which might be yielding an additional income. The rental rate procurable from office space facing light courts varies of course with the amount of natural light therefrom to be obtained, as well as with size and depth of the court. In nearly every instance I have examined even above the adjoining buildings, where the light is wholly unobstructed, the rental rate is 10 per cent. below the same space facing a street. And this same rate seems to follow on downward 10 per cent. off of each floor above for each floor below it, after you pass down from the top of the well.

Fifth. The direction from which light comes.—Here there is a great diversity of opinion and it is doubtful if this has any effect upon rates, though it may have its effect upon securing certain classes of tenants. As a rule light from the west seems to be the least desirable. Architects, doctors, dentists, some lawyers, and most office tenants, who devote much time to work requiring absence of shadows and close eye application, prefer north or east light. The south lighted unit always rents well, though it has not much of a lead over the north and east. All this is irrespective of view or other considerations. And so we come to the effect which elegance of structure has upon rates. And you know, and I know, it does affect rates and sometimes very seriously. In many instances it has a greater tendency to reduce the rates of competitive buildings less elegant and built for revenue than to increase them for the elegant building itself. Not that I would for a moment deny all that is fine and great and beautiful in the architecture of our modern office buildings, but you and I, Mr. Manager, are expected to and are desirous of making good returns to the owner upon the value of his investment.

And then we have the big building with its tower reaching almost above the clouds, where you may have an office on the forty-eighth or sixty-second floor, nearly a fifth of a mile above the seat in your automobile at its front gate, the one which consumed 600,000 days of labor to construct, enough to keep one man busy 2,360 years. Built to advertise the business of some great corporation, such as the Metropolitan Building, the Singer Building and others. Nearly every city has one of these advertising structures and they do advertise their owners' business as well as the business of tenants who occupy them. Try it out and see. Go to Europe, for instance, you may have to explain to some native there that San Francisco is not in the suburbs of Philadelphia, or that Roosevelt is no longer king of the Irish in America, but if you tell him you have an office in the Metropolitan or Singer Buildings he will know at once you are from New York.

Building Operations for September

According to statistics compiled by Construction News, permits were issued in fifty-eight of the leading cities of the country during September for 16,668 buildings at a cost of $49,066,879, as compared with 16,057 structures that were begun during the corresponding month of 1909, involving an expenditure of $31,950,031. This is an increase of 411 buildings, and a decrease of $2,884,052 in cost, or a little over 5 per cent.
THE FUTILITY OF DOING GOOD ARCHITECTURE IN A CONSPICUOUS PUBLIC PLACE

When there is no legally constituted commission to safeguard such interests is well illustrated by the recent appearance of an advertising abomination which rears its abhorrent form in New York alongside the Times building. This latter, since its erection, has been one of the distinctive architectural achievements of the city.

On another page we show a view of this advertising tower, from which it may be seen that its scale and size bring it into such immediate physical competition with the Times tower as to wholly throw the latter out of its proper relation to the scene.

The situation thus created would not be so bad if the competing tower were a thing of beauty, but its gross vulgarity, typical of the spirit of its erection, creates an effect suggestive of a crass boor in refined company.

The American Architect has received from several sources within the past few days clippings from daily papers in the Middle West which applaud this tower as a smart piece of St. Louis business enterprise, and refer contemptuously to those New Yorkers whose "artistic ideas" are offended.

The tenor of these clippings uniformly appears to be that, as the advertising enterprise promises to be commercially successful it is futile to pay any attention to protestants whose only objection is an aesthetic one.

We do not know how far this attitude of the press represents public opinion in the Middle West, but we have the best of reasons for knowing it does not in the least represent the opinion of architects there; and we venture to suggest to chapters of the Institute in whose territory such sentiments are given expression to by the daily papers that they could engage in no more laudable educational work than to counteract, by chapter resolution and by individual effort, the utterance of such sentiments in any community.
A World Exhibition of Town Planning Opened in London

An exhibition in connection with the Town Planning Conference, soon to be held in London, was opened in the galleries of the Royal Academy on October 5. The American exhibit completely fills the largest gallery and overflows into another gallery where are displayed some sixty maps and diagrams of the various improvements projected by the City of Chicago.

There are thirty-three exhibits from the Society of Architects in Washington, beginning with Peter Charles l’Enfant’s rough sketch, made in 1790, and including diagrams of existing and proposed parks and parkways; elevations of the Capitol and the Washington Monument; bird’s-eye views from the high stations above Arlington and typical sections of notable improvements.

New York is represented by seventeen exhibits of the Improvement Commission comprising a general map of the metropolis, a panorama of upper Manhattan and The Bronx, diagrams of the park system and waterfronts, the proposed plaza for approaches to the Brooklyn and Manhattan bridges, the subway loop terminals and other improvements.

The Boston Society of Architects have a fine display of diagrams and photographs, and there are similar contributions from Philadelphia, St. Louis, Savannah and other American cities.

The German exhibit fills seven galleries and illustrates with scientific thoroughness the methods of administration by which the rapid extension of the urban districts and the necessities for housing enormous swarms of industrial workers have been regulated.

The French exhibit includes exhibits from Nancy, Lyons, Havre, Paris and other cities, and plans of Versailles, St. Germain and parks characteristic of the landscape art of the eighteenth century.

Amsterdam, Antwerp, Louvain, Stockholm, Gothenburg, Copenhagen, Vienna, Budapest, Rome, Turin, Milan and other Continental cities are represented by drawings of street and park improvements.

The best of the British exhibits are a fine set of drawings and models of Edinburgh and plans of the garden suburbs of Letchworth, Hampstead, Ealing, Port Sunlight, Harborne, Bournville and other villages.

This exhibition may be said to thoroughly illustrate the most difficult work of municipal administration in all progressive countries where the industrial population is constantly increasing, and is a good supplement to the discussion at the approaching conference.

Sanitary Conveniences for the Tenement

There are several inexpensive sanitary improvements which would make life in the congested districts so much more worth while living that they cannot be too strongly urged. The most important of these are a provision for cremating refuse, the proper venting of gas ranges and the elimination of wall coverings and all projecting shelves and mouldings which serve no utilitarian purpose. Since the coal range is now almost obsolete in the newer tenements the installation of a small incinerating retort heated by gas at the tenant’s expense would seem a readily feasible matter mutually advantageous to landlord and tenant alike. The building code in New York requires all gas ranges to be vented through adequate flues, but when such flues exist they are generally not connected and the heat is a source of great hardship in the thousands of small apartments where the kitchen is required to serve also as dining and living room. The far-projecting so-called “Dutch shelf” now almost universal in New York from the cheapest of the new tenements to the exclusive elevator apartment house, it has been conclusively established, is one of the most frequent causes of the spread of disease, collecting and retaining most of the dirt stirred up by dusting and sweeping. It is almost impossible to clean these shelves as the practice is general of leaving the hidden part of the shelf in the rough. While there is no objection whatever to wall coverings where there is adequate means of keeping the surroundings clean, the tenement is no place for them and the law should unequivocally say so. It would, of course, entail an increase in first cost to paint all walls in tenements, but the gain for better sanitation would be proportionate. Vacuum cleaning is becoming more common in the better class of apartments, and is accomplishing a marked advance in household hygiene which must, for the present, be obtained at a greater expenditure of labor by those whose means do not permit them to afford this convenience.
RESIDENCE OF MR. H. W. BLAKE, ENGLEWOOD, N. J.

Messrs. Davis, McGrath & Kiessling, Architects
RESIDENCE OF MR. B. F. REINMUND, ENGLEWOOD, N. J.

MESSRS. DAVIS, McGRATH & KIESLING, Architects
WEST FRONT

RESIDENCE OF MR. A. B. GAINES, ENGLEWOOD, N. J.

MESSRS. DAVIS, McGRATH & KESSLING, Architects

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SUN PARLOR

EAST SIDE

NORTH PORCH

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MESSRS. DAVIS, MCGRAVE & KESSLING, ARCHITECTS
A Communication

To the Editor of The American Architect:

Dear Sir—I am able to make an interesting addition to the points of my article of September 28, which related to the Report of the Italian Commission on the Leaning Tower of Pisa.

An Italian translation of this article is in course of preparation, and it occurred to me that a diagram representing the difference in the results of the same plumb, as measured to level and as measured to slope, would be an interesting and useful addition to the article.

In my article in your issue of September 28 I had estimated (by compass test on the very small scale of the original DeFleury section of the Leaning Tower) that the DeFleury sixth story plumb would give a 10 cm. higher result on the measure to slope than it did on the measure to level.

In order to prepare an illustration bearing on the general principle, for use in the Italian translation, I instructed my draughtsman to make a drawing, four times enlarged, from that part of the DeFleury section which shows the ground floor of the tower, and to report to me what results would be obtained by the enlarged scale as regards the measure to slope.

Please note this diagram herewith. The additional amount on the measure to slope is not 10 cm. It is 7 cm.

Now 7 cm. is the amount which the Commission reports that the tower has moved since the DeFleury sixth story plumb of 1859 (if this sixth story plumb can be trusted, which the Commission doubts).

If we suppose that the Commission took a plumb from the sixth story and that this plumb was measured to the surface slope, it appears likely or possible that the erroneous impression was thus derived that the tower had moved 7 cm. since the date of DeFleury’s plumb. The correspondence of the figure of 7 cm., mentioned by the Commission, to the difference of 7 cm. between the two measures shown by the diagram makes this hypothesis attractive, although it obliges us to assume that the Commission overlooked the point that the difference between sixth story plumbs would not be the same as the difference between seventh story plumbs.

Wm. H. Goodyear.

PERSONAL

The Atelier Wynkoop announce their removal to new quarters, 74 Irving Place, New York.

Frank D. Skeel, it is stated, has moved his offices to Vickers Building, on Euclid Avenue, Cleveland, O. This building is one of Mr. Skeel’s recently completed works.

Messrs. George B. Post & Sons, of New York, are in consultation with President Richmond regarding changes and improvements in the buildings and grounds of Union College at Schenectady, N. Y.

Mr. Oswald C. Hering announces that he has formed a partnership with Mr. Douglass Fitch and will continue the practice of architecture, under the firm name of Oswald C. Hering & Douglass Fitch, Architects, with offices at No. 1 West 34th street, New York.

Local papers state that the firm of Hughes & Mangin, architects, Syracuse, N. Y., has been dissolved. Mr. Hughes will for the present, it is stated, retire from active practice. Mr. Mangin will continue in the former offices of the firm in the Betts block.

Mr. S. E. Desjardins, architect, informs us that he has removed his office to the Pickering building, Fifth and Main Streets, Cincinnati, Ohio. Mr. Desjardins has admitted to partnership Mr. Roland Bevis, heretofore associated with him as assistant.

NEWS OF THE CHAPTERS OF THE A.I.A.

Southern Pennsylvania Chapter Holds Meeting

The Southern Pennsylvania Chapter of the American Institute of Architects held its fall meeting October 8. Owing to the unavoidable absence of President Rankin, Mr. John B. Hamme acted as president pro tem.

A number of interesting matters of business received consideration. One of these was to request the board of directors of the A. I. A. to allot, if the way be clear, to its jurisdiction the following additional counties of the State: Bedford, Fulton, Blair, Huntingdon, Mifflin, Juniata, Snyder, Union, Northumberland, Lycoming, Montour, Clinton and Centre. The counties as covered by the chapter at present are: York, Lancaster, Adams, Dauphin, Cumberland, Franklin, Lebanon and Perry. The balance of the counties are to be divided between the remaining two chapters, Philadelphia and Pittsburg.

The date of the next regular meeting of the chapter is the second Monday of December.

The official special train of the chapter to the con-
vention of the A. I. A. in San Francisco is scheduled to leave Chicago at 9:30 a. m. January 11.

MICHIGAN (DETROIT) CHAPTER.

At a business meeting of this chapter held October 11 a scholarship to the value of $55 a year in the architectural course of the University of Michigan was voted.

By a unanimous vote the directors of the chapter were authorized to subscribe $500 for the establishment of a school of design in Detroit.

BOOK NOTES


In those who are familiar with the admirable work being done by Professor Reilly at the University of Liverpool, and the energy with which it is prosecuted, the appearance of the architectural school annual for 1910 will excite much interest. This publication takes the form of an 80-page book somewhat larger than the Architectural Review, seventy-eight pages of which are devoted to illustrations. Part I is devoted to measured drawings by students of the school of such buildings as the Taylorian Institute, Oxford; St. George's Hall, Liverpool; the Custom House, Dublin; St. Mary-le-Strand, London; Palazzo Pompeii, Verona; Palazzo Pandolfini, Florence—twenty-three subjects in all. Part II is devoted exclusively to design problems given in the school. In accordance with Professor Reilly's wise policy, these problems deal chiefly with architecture done in the grand manner or monumental work, though "a set of twelve almshouses," "a workman's cottage" and "a hotel for a country town" give the student an opportunity to relax occasionally and express his emotions in more homely idiom.

In his lucid introduction to the book, Professor Reilly justly observes "all early teaching, to be effective, must be academic," and though a stranger may not agree with the author's conclusions.

Church Tower Moved Intact

In the issue for September, 1910, L'Architecture et la Construction dans le Nord reports the moving intact of a church tower, covering a superficial area of some 1,100 feet and 150 feet high a distance of about thirty feet. The operation was made necessary by alterations and the enlargement of the building, and was performed without disturbing the continuous working of a sixteenth century clock installed in the tower. The work occupied ten days and was successfully carried out by a firm of American contractors familiar with such operations.

Problems in Town Planning

In the current issue of the London Architectural Review exception is taken by Mr. W. R. Davidge to some current notions regarding traffic problems and the correct placing of monumental or otherwise interesting buildings at civic centers. This paper and its illustrations deserves attention though one may not wholly agree with the author's conclusions.

D. H. Burnham on Town Planning Conference

In an interview with Mr. D. H. Burnham, of Chicago, printed in a London daily paper, he is reported as being most enthusiastic as to good that will be accomplished by the Town Planning Conference, just closed in London.

We read: "It is the greatest thing of the sort ever held," said Mr. Burnham. "There were present many great authorities on town planning, and the subject has been thrashed out thoroughly. The conference had the benefit of having various town planning schemes illustrated by drawings, which made their meaning quite clear. Germany was represented by drawings of a dozen of her greater cities, while America showed plans for the future development of Washington and Chicago, which plans have taken about four years to work out."

Mr. Burnham acted as presiding officer on one day of the Conference and during the session read a paper on "The Development of the Cities of the Future."

Competition for Albany, (N. Y.) High School Decided

The first prize in the competition for a high school at Albany, New York, has been awarded to Goldwin, Starrett & Van Vleck, with Orrin Winthrop Rice as associate. Second prize, Edward Sheppard Hewitt and Frederick G. Frost, of New York; third prize, Louis Boynton, New York. The architects' estimate of cost of building is $200,000.

The successful design was selected by the city officials, with Mr. Franklin B. Ware, state architect, acting as professional adviser.

A Scholarship in Architecture

A scholarship valued at $1,000 per year for advanced work in architecture has been made available to the Trustees of the University of Illinois by Mr. Francis John Plym, of Niles, Michigan. The conditions under which this scholarship is to be bestowed will be determined by the Trustees. For the present it is understood that it will be given each year to a graduate of the Department of Architecture for the purpose of foreign study and travel.

An American Sculptor Dead

Larkin Goldsmith Mead, an American sculptor and brother-in-law of William Dean Howells, died in Florence, Italy, on October 15. His more prominent works in this country are the national Lincoln monument at Springfield, Ill., the soldiers' monument at St. Johnsbury, Vt., and the statues of Ethan Allen in the National Art Gallery, Washington, and in the State Capitol at Montpelier, Vt.
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ALABAMA
Davaille.—Methodist Congregation has decided to erect edifice.

Montgomery.—Bids will be received until noon, Nov. 4, for erection of a new building.

AKANSAS
Helena.—First Methodist Church is preparing for erection of $50,000 edifice.

Arkansas City.—Bids will be received until noon, Nov. 4, for erection of new building.

CALIFORNIA
Corona.—Plans for $50,000 apartment house to be erected at Sunset Boulevard and Bunker Hill St.

Los Angeles.—Plans for $30,000 apartment house to be erected at Sunset Boulevard and Bunker Hill St.

Oakland.—Plans for $30,000 apartment house to be erected at Sunset Boulevard and Bunker Hill St.

Pasadena.—A local architect has completed plans for two-story, seven-room residence to be erected on West California St. for Brigadier General D. P. Heap.

Sacramento.—Farmers & Mechanics Savings Bank will erect $750,000 5-story bank and office building on Eighth St. C. T. Gayer, Architect.

San Francisco.—Bids will be received until 2 p.m. Nov. 11 for erection of a new ladies’ dormitory.

San Diego.—Citizens will vote Dec. 9 on proposition to build a new ladies’ dormitory.

Connecticut
Bridgeport.—Marsh Bros. Co. has had plans prepared for erection of music room.

Plains have been prepared for immediate erection of a new edifice at Holbrook for Mrs. E. E. Adams.

Manchester.—Hartwell, Richardson & Driver, 62 Devonshire St., Boston, have finished revised plans for school building to be erected at the present site. Bids will be asked at once.

New Haven.—Architects Allen and Williams, 82 Church St., have prepared plans for the erection of a new four-story, 35-room building.

WATERBURY.—Site on Robbins St., Mt. Pleasant Park, has been purchased by the Rev. Bishop J. J. Nilan for erection of new church.

DELAWARE
Wilmington.—General Pulaski Club has had plans prepared for erection of $35,000 clubhouse at Second and Jutson Sts.

DISTRICT OF COLUMBIA
Washington.—Professor W. S. Small, Principal of Eastern High School, is urging $350,000 appropriation for purchase of site for erection of high school.

FLORIDA
Sanford.—Virginia-Florida Chemical Co. will at once erect a new office building.

West Palm Beach.—Dramatic Stock Co. will erect theater on Clematis Ave. Judge W. I. Metcalf is interested.

GEORGIA
Atlanta.—Atlantic Ice & Coal Corporation has decided to operate $30,000,000 with which to build additional ice manufacturing and storage plants in Atlanta and additions on plants in Georgia and Florida. Ernest Woodruff, President.

Atlanta.—Trustees of Grady Hospital will at once ask for bids for erection of new building.

BRIDGEPORT.—Bids will be received until 2 p.m. Nov. 11 for erection of a new ladies’ dormitory.

BRISTOL.—Bids will be received until 2 p.m. Nov. 11 for erection of a new ladies’ dormitory.

BRUNSWICK.—Bids will be received until 2 p.m. Nov. 11 for erection of a new ladies’ dormitory.

AuTABE.—Atlantic Ice & Coal Corporation has decided to operate $30,000,000 with which to build additional ice manufacturing and storage plants in Atlanta and additions on plants in Georgia and Florida. Ernest Woodruff, President.

Atlanta.—Trustees of Grady Hospital will at once ask for bids for erection of new building.

BEACH.—Methodist Congregation is considering erection of new edifice.

CRAWFORD.—City will, on Nov. 1, sell $5,000 school bonds. R. S. McMahen, Clerk.

IDAHO
Coeur D'Alene.—Coeur D'Alene College, Rev. B. Weatherly, President, is having plans prepared for erection of gymnasium.

ILLINOIS
Carrollton.—Bids will be received until 2 p.m. Nov. 11 for erection of brick building and frame dwelling.

McFarland, J. E., Secretary Eldred Drainage District.

SOUTH.—Wabash Railroad has selected site for erection of proposed passenger station. Henry Miller, St. Louis, Mo., General Manager.

Chicago.—Paul Gerhardt, Architect, Schiller Bldg., is preparing plans for apartment building to be erected for Gustave H. Poetsch at 4370 Logan St. Cost, $125,000.

Site at W. Fifteenth St. and S. Fifteenth Ave. has been purchased by Catholic Bishop of Chicago for erection of Lithuanian church and school.

Frederick B. Skillman is considering erection of eight-story, $250,000 hotel building at 228 S. Halsted St.

Trustees of the Central Manufacturing District are about to erect a new ladies’ dormitory, at cost of $430,000.

Rock Island.—Bids will be received until Nov. 24 for erection of new post-office.

James Knox Taylor, Washington, D. C., Supervising Architect, Treasury Department.

INDIANA
Indianapolis.—Methodist church is considering erection of new church building.

Indianapolis.—Eli Lilly & Co. will erect administration building on Alabama St.

Indianapolis.—Knights of Columbus has decided to erect a new ladies’ dormitory, at cost of $35,000, addition to building in North Illinois.

Plains are being prepared for Mrs. Hannah Mansur and Mrs. Mary E. Hume for erection of building on East Ohio St.

Indiana Harbor.—Methodist church is considering erection of new edifice.

MARION.—Site will be purchased for erection of annex to Y. M. C. A. building.
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BOSTON
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PHILADELPHIA
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Mishawaka.—Edward and Charles Mills are considering erection of business block on E. Second St.

Mishawaka.—Church to cost from $75,000 to $100,000 will be erected by E. G. Eberhart and others and presented to Methodists.

Portland.—Rev. Earl Dunbar, Portland Methodist Church, is interested in proposed erection of $5,000 edifice at Union.

Sandhoes.—Christian Church is considering erection of $20,000 edifice. Nelson Carroll, Chairman Building Committee.

Terre Haute.—Plans have been completed for erection of a second high school.

Vincennes.—United Brethren Congregation is considering erection of edifice.

IOWA

Cedar Rapids.—First Church of Christ, Scientist, will erect proposed edifice on Second Ave.

Des Moines.—F. M. Hubbel is considering erection of $500,000 hotel on river front.

Des Moines.—D. S. Chamberlain is considering erection of hotel at Twelfth and Grand Sts.

Loram.—Bids will be received until 8 p.m., October 31, for erection of town hall. H. L. Albert, Town Clerk.

Sioux City.—Clceris of St. Viateur will erect boy's school at cost of $100,000. Very Rev. Fr. Charlesbois of Chicago, is interested.

KANSAS

Kansas City.—City Commissioners have approved plans for $200,000 city hall and public auditorium which city is to build on North Sixth St.; bids will be opened Nov. 1.

Chicago, Rock Island & Pacific Railway Co. will build a $50,000 freight house at Third St. and Berger Ave.

Newton.—Board of Education is considering erection of $75,000 school.

Silver Lake.—Architect F. E. Squires, 628 Kansas Ave., Topeka, has prepared plans for erection of $10,000 school.

Topeka.—Architect N. H. Nelson, 48 Crawford St., has prepared plans for erection of number of schools.

KENTUCKY

Came.—Plans will be received until Jan. 1 for erection of $50,000 school. B. T. White, Secretary School Board.

Lexington.—School Board has selected architects to prepare plans for proposed West End School.

Louisville.—Hugh L. Nevin has about perfected plans for erection of $75,000 apartment house at Fourth Ave. and Oak St.

Architects Joseph & Joseph, Commercial Bldg., will take bids for erection of theatre at Eighteenth St. and Broadway.

Citizens National Life Insurance Co. will erect $70,000 home in downtown district.

Shermanville.—J. C. Bayne, Bagdad, will erect residence on Main St.

LOUISIANA

Elton.—Cajoleese Parish School Board will soon let contract for erection of school. W. Kielow, Jennings, Architect.

John McNeese, Lake Charles, Parish Superintendent.

New Orleans.—Bids will be received about Nov. 1 by administration of Isaac Delay's Museum of Arts, 518 Iberville St., for erection of proposed $15,000 art building. Leidenbaum & Marx, Chicago, III., Architects.

MAINE

Bangor.— Jas. S. Howe, Jr., is considering erection of four-story brick building on Harlow St.

Greenville Junction.—State Y. M. C. A. will erect $25,000 railroad Y. M. C. A. building. J. C. Smith, Waterville, Chairman.

MARYLAND

Baltimore.—Wm. H. Ponder will erect residence at Ten Hills. Glidden & Friz, architects.

Jas W. Ames will erect seven two-story brick dwellings, cost $12,000, on Edmondson Ave. J. F. Gerwig, 210 E. Lexington St., architect.

Baltimore.—Plans have been completed by Jacob F. Gerwig, 210 E. Lexington St., architect, for twelve two-story brick dwellings, to be erected on Chelsea Ave. for A. Warren Edwards; cost about $30,000.

Glidden & Friz are preparing plans for another residence to be erected at Ten Hills for L. D. Davis. Cost about $8,000.

George M. Mackenzie, architect, Govans Bldg., is drawing plans for $10,000 Sunday School room to be erected in connection with the Govans Methodist Episcopal Church.

Baltimore.—The H. H. Babcock Company, Fayette and Hanover Sts., is planning to build a new building uptown.

Becker Brothers & Son will start work soon on $100,000 building to replace one at Lexington and Frederick Sts. Theodore Wells Pietsch, Architect.

James M. Amos will build seven two-story brick dwellings on Edmondson Ave., to cost about $12,000. Jacob F. Gerwig, 210 E. Lexington St., Architect.

Baltimore.—Proposed Lutheran church will be erected at Garrison and Bateman Aves. Rev. Dr. H. W. Hartman, Highland Ave, Wabrook, is interested.

Zion Church has had plans prepared for erection of parish house at Lexington and Holliday Sts.

Council is considering $15,000 appropriation for erection of detention hospital.

Baltimore.—Carl R. McKendrick will erect residence at Ruxton.

W. Elbert Sexton has had plans prepared by Mottl & White, Professional Bldg., Architects, for a residence to be erected at Roland Park; bids now being received.

Archers & Allen, Architects, Central Savings Bank Bldg., have completed plans for $25,000 public comfort station to be erected at Hartford and Greenmount Aves.

MASSACHUSETTS

Boston.—Mayor Fitzgerald has recommended purchase of site in the Fenway for erection of proposed High School of Commerce.

Haverhill.—Lithuanian parish will erect edifice at River St. and Woodmont Ave.

Holyoke.—Dr. G. C. Robert is planning to erect 20-apartment block at Cabot and Chestnut Sts.

Architect Oscar Beauchemin has prepared plans for erection of residence for Jos. Boyer.

A. J. McDonell will soon begin erection of three-apartment block.

Revere.—Bids will be received until 8 p.m., November 2, for erection of school on Malden St. T. W. Gillette, Secretary Special Committee.

MICHIGAN

Detroit.—Baxter & O'Dell, Hammond Bldg., are designing a four-story 22-apartment building to be erected on Center St. for H. C. Hodges; also two-family flat on Hancock St. for Arthur Schlesinger.

Lansing.—Free Methodists will erect edifice on Madison St. Rev. A. E. Warren, Pastor.

Maple Rapids.—Fisher Bros., Beaudette Bldg., Pontiac, are preparing plans for school. O. M. Snyder, Secretary, Board of Education.

Monroe.—Council has appointed committee to view building sites with idea of erecting city hospital.

MINNESOTA

Aurora.—School District No. 13 will vote on $45,000 bonds to erect proposed high school; also school at Knox and Adriatic mines.

Bacette.—Town destroyed by fire will be rebuilt; school house to be erected at once.

Chisholm.—Architect Edward Sarvari, Virginia, has been selected by Finnish people of this village to design new hall that will be erected at a cost of $15,000; work on excavating begun.

Ely East.—School Board is considering erection of $60,000 primary school in Adams District.

Laurel.—First Methodist Church is receiving bids for erection of $25,000 edifice.

St. Paul.—Plans have been drawn by Architect A. H. Wheeler, Globe Bldg., for $5,000 residence to be erected on corner of Portland Ave. and Pierce St. for J. W. Martin.

John M. Carlson, 227 W. Fifth St., will build on Dayton Ave. a 2-story brick duplex residence.

St. Paul.—Orthodox Jewish Congregation of Hill District is considering erection of temple. Jos. Levy is interested.
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St. Paul.—The Low German Society is looking for site for erection of a $100,000 clubhouse after old-fashioned German place. L. E. Schultz, Chairman, Site Committee.

St. Paul.—Watson P. Davidson, Pioneer Press Bldg., will erect at 413-417 Sibley St. a three-story, $35,000 brick building. J. W. Lusk, President, National German American Bank, will erect the same on Summit Ave.

L. A. Plaster, 74 West Summit Ave., will erect on Summit Ave. a $10,000, three-story brick apartment building.

St. Bernard's Catholic Church will erect $17,000 Sisters Home on Rose St.; work on foundation begun. Plans being drawn by Architect John E. Fisher.

MISSISSIPPI

Bloxox.—Board of Trustees of Seashore Camp Grounds has decided that plans and specifications be made for tabernacle and school building, and that bids be advertised for construction of buildings.

Jackson.—Bids will be received until Nov. 3 for erection of dormitory and dining hall at Mississippi Industrial Institute. R. H. Hunt, News Bldg., Chattanooga, Tenn., architect. J. S. Sexton, President, Board of Trustees.

MISSOURI

Kansas City.—Chittenden-Eastman Furniture Co., Burling- ton, la., will erect factory in this city.

Moorest.—Architect U. S. A. Henk has prepared plans for erection of $8,000 store building.

St. Louis.—Board of Education is considering erection of $200,000 school at Gano Ave. and Emily St.

St. Louis.—Crane Co. is considering erection of $25,000 warehouse at Eleventh and Groat Sts.

St. Louis.—Architect J. P. J. Broadstreet, Leggett Bldg., is preparing plans for $8,000 residence to be erected on Parkview Place.

Architects Duggan & Huff, Century Bldg., are preparing plans for $15,000 theatre building to be erected on Jefferson Ave.

MONTANA

Billings.—Chamber of Commerce is interested in proposed erection of auditorium.

NEBRASKA

Lincoln.—Annex to the Children's Home.

Omaha.—Farmers' Co-operative Creamery Co. will erect factory.

Plans for a new depot, which will be erected at Forty-fourth and Q Sts., have been submitted by the Burlington for the inspection of city officials.

Rushville.—County will vote November 8 on $10,000 bonds so that they might be rearranged to permit of bids within the specified amount of $84,000.

NEW HAMPSHIRE

Exeter.—Phillips-Exeter Academy is considering erection of library and dormitory.

NEW JERSEY

Atlantic City.—Chas. B. Prettyman, Philadelphia, Pa., will erect eight-story brick and stone hotel on Pacific and Maine Aves., to cost $100,000, also six-story addition to the Hotel Merion.

Bricktown.—Commercial League is interested in proposed establishment of plant for making steel castings; ten buildings will be erected.

Elizabeth.—Committee on new high school has asked Board permission to select its own architect, who will draw plans and have charge of the work erecting proposed building. Bids will be received until Nov. 1 for erection of brick barn at Almshouse. Oaklev & Sons, 280 N. Broad St., A architects.

Hackensack.—Citizens have defeated proposition to erect high school; vote will now be taken on erection of grammar school.

Jersey City.—David J. Murphy will erect two eight-family dwellings, cost $75,000, on Monticello Ave. H. Rosen- sohn, 745 Broad St., Newark, Architect.

Jersey City.—Plans are being prepared by Architect Frederick Hensel for Hudson County Consumers Brewing Co. for erection of $8,000 garage.

Jersey City.—Bids will be received Nov. 22 for erection of proposed Technical and Industrial High School at Newark and Palisade Aves.

Linden.—Board of Education has decided to submit plans and specifications to building architect, Louis Quen, of Elizabeth, so that they might be rearranged to permit of bids within the specified amount of $84,000.

Long Branch.—The Keansburg Yacht Club will erect clubhouse early next spring. W. S. Bailey, Commodore.

Montclair.—Erection of $300,000 addition to high school and two school buildings is being considered.

Newark.—Wm. H. Frey will erect three-story frame flat, cost $50,000, to be erected at 697 S. Twentieth St. Wm. K. Schoenig & Sons, 418 Springfield Ave., Architects.

Newark.—Bids will be received until 3:15 p.m., Nov. 9, for erection of Montgomery School. R. D. Argue, Secretary, Board of Education.

Newark.—Architect Alfred Walters, 45 Clinton St., has completed plans for erection of number of buildings.

Rizzolo & Gonzelli, 800 Broad St., have drawn plans of a four-story apartment house, sixteen apartments, costing $12,000, which Michael Perrotty will build at 54 Madison St.

Paterson.—Revised plans are being prepared by Renwick, Aspinwall and Tucker, 330 Fifth Ave, New York City, for erection of residence for F. G. Landen, of New York City.

Trenton.—King Candy Co. will erect $300,000 apartment house and factory building at West Hanover and Chancery Sts. W. F. Enderbrock, Architect.


Addison.—Plan of police station on Chancery St. is being considered.

Trenton.—Council is considering $85,000 appropriation for building Rutherford Ave. school and $9,000 for rebuilding walls of Cook school.

NEW MEXICO

Clayton.—Attorneys Easterwood and Eaton will erect brick buildings on Main St.

NEW YORK

Albany.—Bids will be received until 3 p.m., Nov. 7, for erection of police station on N. Pearl St. J. Wachman, Secretary of Board of Contract and Supply.

Binghamton.—Board of Education has asked Council to secure plans for proposed high school.

Elmira.—The W. R. Compton Realty & Building Co. will erect a 1-story business block on Railroad Ave.

Hudson Falls.—Chas. G. Ogden, 29 State St., Albany, will prepare plans for erection of $20,000 edifice for First M. E. Church. Rev. J. H. Arwell, Pastor.

Jackson, L. L.—Plans are being prepared for erection of residence on Old Glen Cove Road for Mrs. Virginia Fair Vanderbilt.

Le Roy.—County is considering erection of tuberculosis hospital. Address Supervisor McVein.

Low Ave.—John Kirby, 851 Fifth Ave., New York City, is receiving bids for erection of $50,000 Catholic Church. Rev. Richard Hughes, pastor.

New York.—Legal Realty & Mortgage Co., 5 Beekman St., will erect twelve-story $225,000 brick loft at Lafayette and Fourth Sts. Herter Bros., same address, architects.

Ebling Brewery Co. will erect $60,000 brick garage at St. Ann's Ave. and 150th St. Fred Hammond, 391 E. 149th St., Architect.

Pelham Hoffman Realty Co., Rudolph Simon, 1842 Washington Ave., President, will erect one-story brick stores and amusement hall on Huffman St. at cost of $25,000. Goldin & Goldberg, 704 Jackson Ave., Architects.

New York.—Henessey Realty Co., J. Polstein, President, will erect eight-story $400,000 apartment house on Eighty-third St. Schwartz & Corcoran, 325 Fifth Ave, Architect.

M. L. Carroll and A. L. Townsend will erect three-story $17,000 brick stable on Washington St. H. C. Pittman, 22 East Twenty-first St., Architect.

New York.—G. F. Johnson, Seventy-second St. and Riverside Drive, will erect 4-story $175,000 brick theatre on Extra Place. G. Kerster, 12 W. Thirty-first St., Architects.

A. F. Eno, 13 S. William St., will erect 4-story $105,000 brick store and lofts on Front St. J. H. Whitehead, 99 W. Third St., Architect.

R. I. Brown, 172 W. Seventy-sixth St., will expend $2,000 in improving residence on 129th St. Relye & Steinback, 835 Fifth Ave., Architect.
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New York.—Robert A. Chesbrough will erect five-story, $60,000 dwelling at Madison Ave. and Seventy-first St. A. J. Bodmer, 23rd Thirty-second St., Architect.

Plimpton Construction Co., Nathan Cohen, Plimpton Ave., President, will erect four two-story dwellings, cost $27,000, on Cedar Ave. J. J. Vogel, 130 South Eleventh St., Architect.

New York.—Rose and Goldstone, 12 W. Thirty-second St., are preparing plans for erection of twelve-story hotel on Fifty-fifth St., near Broadway.

General contract for erection of eleven-story $200,000 addition to Oppenheim, Collins & Co. building has been awarded to Chas. A. Govan & Co., 111 E. Fifteenth St., New York.

Fifty-fifth St., near Broadway. $80,000 dwelling at Madison Ave. and Seventy-first St. A. J. T. Flanagan, 5 E. 26th St., Architect.

erection of $60,000 industrial school on Kendall Island. W. N. Ashbaugh, 212 L. Pull will erect five three-story brick dwellings on Third St.; plan to erect home at Walnut Ave., Seventy-first St., architects.

C. Pull will erect five three-story brick dwellings on Seventy-first St. C. S. Clark, 443 Tremont Ave., Architect.

erection of $40,000 school for home for Niagara Falls Exempt Firemen's Association to be erected on Third St.; plan to erect at 2121 Jefferson Ave.

Lima.—Bids will be received until noon, Nov. 10, for building foundations for Infirmary "A", Infirmary "B", Women's Pavilion, College Annex, Women's Pavilion, 12th and Twentieth Sts. L. Packard, New Hayden Bldg., Columbus, architect. S. A. Hoskins, Chairman Board of Commissioners.

SANDUSKY.—Suspension Roller Bearing Co. will erect number of buildings.

TOLEDO.—Board of Education will open bids Dec. 5 for erection of two high schools after revised plans.

Gendron Wheel Co. will erect $25,000 addition to plant at Superior and Orange Sts. Langdon & Hohly, Toledo, architect.

Bids will be received until noon, Nov. 11, for erection of school at Truesdale and Charlotte Aves.; also for erection of school in Brier Hill District. Kling & Zenk, Architects. W. N. Ashbaugh, Director of Schools.

OREGON


President, will erect four two-story dwellings, cost $27,000, on Third St.; plan to erect home at Walnut Ave., Seventy-first St., architects.

C. L. Schramm, 426 W. Twenty-sixth St., will erect $50,000 warehouse at 432 W. Twenty-sixth St. C. M. Straub, 147 Fourth Ave., architect.

NIAGARA FALLS.—Architect J. E. Wright has prepared plans for home for Niagara Falls Exempt Firemen's Association to be erected on Third St.; plan to erect at 2121 Jefferson Ave.

New York.—Department of Charities will soon ask bids for erection of $60,000 industrial school on Randall's Island. W. T. Flanagan, 5 E. 26th St., Architect.

W. H. C. Packard, New York City, has prepared plans for erection of brick and marble residence on Williams Ave. for W. F. Hutchison.

John C. Moore has prepared plans for erection of modern business building at Grand Ave. and E. Pine St. Thos. H. Garland will erect apartment house at Washington and Twentieth Sts. Williams & Rasmussen, Architects.

ROBERTS & ROBERTS, Architects, are preparing plans and specifications for $30,000 laundry building, which will be built on corner of E. Sixth and E. Oak Sts., for Charles S. Hacker.

PORTLAND.—Bids are to be had for the erection of $65,000 Lincoln High School which has been prepared by the Board of School Directors by Architects Whitehouse & Foulkouls.

Building Committee of the Multnomah Amateur Athletic Club has settled upon plans for $175,000 club home, to be built on Salmon St.

PORTLAND.—Webster & Williams, Fashion Stables, are having plans prepared for erection of $25,000 building.

National Coal Storage & Ice Co. will at once erect $35,000 annex on East Washington St.

Pennsylvania

PITTSBURGH.—Architect E. S. Schermerhorn and Watson K. Phillips, Associate Architects, 430 Walnut St., Philadelphia, have completed preliminary drawings and specifications for three-story stone residence to be erected for Mr. Harvey B. Allen; bids received by owner not later than October 26.

Baltimore.—Catholic church has built plans prepared by Frank Seeburger, Philadelphia, for erection of six modern houses on Upland Terrace and Birch Ave. Cost, $36,000.

CUMBERLAND.—First United Brethren Congregations will erect a chapel at Philadelphia and Newberry St. Plans being prepared.

HARRISBURG.—Brigadier General W. G. Price, Jr., will erect fifty dwellings on Parker St.

HARRISBURG.—Log College Association will erect auditorium and other necessary buildings.

INGRAM.—Plans are made on bids being asked on two brick houses on Stone and Stanley Sts., on the plan of M. J. McMahon.

LEXINGTON.—The World's Cigar Co., St. Paul, Minn., will erect plant in this city.

PHILADELPHIA.—Architects E. Allen Wilson, Land Title Bldg., have completed plans for a 5-story office building at Thirty-ninth St. and Lancaster Ave. for Thomas Collier.

PHILADELPHIA.—Architect Horace Trumbauer, Land Title Bldg., has completed revised plans for erection of $500,000 addition to March league building. Fifteenth and Sansom Sts.

Architects Ballinger & Petrol, 1211 Arch St., have prepared plans for erection of granite chapel at Tioga and Weymouth Sts. for St. Philip's M. E. Church.

PHILADELPHIA.—Architects Ballinger & Petrol, 1211 Arch St., have invited revised bids for eight-story building for Leo and Arthur A. Nicoll, at corner of Twelfth and Race Sts.
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PHILADELPHIA.—Jewish Congregation of Frankford is considering plans for erection of $10,000 synagogue on Paul St. Architect E. Allen Wilson, Land Title Bldg., has completed plans for forty-two-story houses to be erected on Locust St. for John C. Knox.

Park Commission is considering plans for erection of large municipal convention hall. John T. Windrim, Commonwealth Bldg., architect.

PHILADELPHIA.—Plans are in preparation by H. H. Markley for six-two-story flat houses to be built on Markoe St. at a cost of $35,000 each.

PHILADELPHIA.—Ballinger & Perrot, Architects, 1211 Arch St., have completed plans and specifications and invite bids for a chapel, to be erected at corner of Tioga and Weymouth Sts., for St. Philip's Methodist Episcopal Church, under auspices of the Philadelphia City Mission and Church Extension Society, who also plan erection, at a later date, of a large church adjoining the chapel on the corner of Tioga and F Sts.

PITTSBURG.—Architect R. M. Trimble, Ferguson Bldg., has completed foundation plans for three-story brick and terra cotta building to be constructed on Butler and Forty-fifth Sts. for Lawrenceville Branch Y. M. C. A., to cost $125,000; architect will soon take bids on foundations only.

PITTSBURG.—Building Committee, Pittsburgh Presbytery, has adopted plans by Ballinger and Perrot, 1211 Arch St., Philadelphia, for erection of dormitory for Western Theological Seminary. Rev. Dr. Jas. A. Kelso, President of Seminary.

PITTSBURG.—Architects Palmer & Horsnbeast, Empire Bldg., have prepared plans for erection of annex to Redeshoe Shalom temple.

ROCHESTER.—Dr. J. C. Kuneman, Philadelphia, will erect four-story brick business block at lower Brighton and Pleasant Sts.

SCRANTON.—Plans for a $50,000 club house and gymnasium are now being evolved by Hebrew Institute Association. Rabbi W. Gold, Linden St. Temple, is interested.

WILKES-BARRE.—Architects Reilly & Schroeder, Bennett Bldg., have prepared plans for erection of station house.

WILLIAMSPORT.—South Williamsport School Board has purchased site for erection of school.

WILLIAMSPORT.—W. H. C. Huffman & Sons will erect modern garage on Third St.

RHODE ISLAND

CRANSTON.—Council has decided to purchase site on Cottage St. for erection of school.

WESTERLY.—Town has decided to erect proposed town hall at Union and Broad Sts.

SOUTH CAROLINA

CHARLESTON.—N. Sottile will erect building at corner of King and Market Sts.

Bids will be received until noon, Nov. 4, for erection of Administration Bldg. of Lutheran Theological Seminary. Rev. C. A. Freed, Secretary; C. M. Robinson, Richmond, Va., Architect.

TENNESSEE

CHATTANOOGA.—Architects J. G. Barnwell and C. J. Jones have prepared plans for erection of five-story building on Eleventh St.

NASHVILLE.—Bids will be received until noon, Oct. 31, for erection of addition to Ross School on Ordway Pl. Asnas & Norton can be addressed.

Hospital, cost $290,000, will be erected at Sixteenth Ave. and Division St. by Tennessee conference, M. E. Church, South. J. G. Carpenter, Architect. A. B. Ransom is interested.

NASHVILLE.—Plans have been prepared by J. Benner Fletcher, Homestead Bldg., for erection of two store houses at Twenty-second Ave. and Church St. for J. D. Fletcher.

TEXAS

CLEBURNE.—Olive Lodge, No. 31, K. of P., has decided to erect Pythian temple.

DALLAS.—Breihan-Kaplan Co. is having plans prepared for erection of twenty-story brick business house on Main St.

Dr. L. C. Citizens have voted bonds for erection of city hall. Work will begin at once.

EAGLE PASS.—Bids will be received until Nov. 19 for erection of proposed post office. Jas. K. Taylor, Washington, D. C., Supervising Architect, Treasury Department.

El Paso.—Beai Zion Hebrew Congregation is considering erection of temple on North El Paso St. J. Snider, president.

El Paso.—Congregational Church has purchased site at Williams and Rio Grand Sts. for erection of edifice.

FLORENCE.—Council is considering erection on $48,000 bonds to erect school.

HOUSTON.—Home Telephone Co. is having plans prepared for erection of telephone exchange. F. E. Ebersole is interested.

HOUSTON.—Firm of Mauran & Russell has been selected as supervising architects for erection of $1,000,000 hotel on present site of Rice Hotel.

HOUSTON.—Home Telephone Co. will erect building at Rusk Ave. and Caroline St. Plans being prepared.

ORANGE.—First Methodist Church has decided to erect edifice at Elm and Sixth Sts.

SAN ANTONIO.—Building Committee of Chamber of Commerce has decided on plans for erection of large building. Jake Wolff and L. J. Hart are interested.

SWAN.—Baptist Church has accepted plans for erection of edifice.

UTAH

SALT LAKE CITY.—Dallas & Hedges, architects, will prepare plans for erection of school on Eleventh South St.

VERMONT

BURLINGTON.—Architect Frank L. Austin will prepare plans for erection of new Lamolle County buildings at Hyde Park.

VIRGINIA

ALEXANDRIA.—Methodist Episcopal Church, South, is considering erection of parsonage on S. Washington St.

HARRISBURG.—Site at end of Gay St. has been secured for erection of school. Plans being prepared.

NATIONAL SOLDIERS' HOME.—Bids will be received by John T. Elume, Treasurer, Southern Branch, N. H. D. V. S., until 1:30 p. m., Nov. 10, for constructing three barracks.

NEWPORT NEWS.—Max Levinson will erect $5,000 packing plant near Hampton and Thirty-sixth Sts.

NORFOLK.—Finance Committee is considering $35,000 appropriation for police station.

WASHINGTON

FACO.—Gus Harris, Walla Walla, is considering erection of two-story concrete building.

SPOKANE.—Bids have been rejected for replacement of South Central High School; new building, cost $450,000, is being considered. H. W. Allen, President, Board of Education.

SPOKANE.—Broadway Dairy Co. will erect $50,000 plant. Frank Flood, General Manager.

SPOKANE.—Fred Markwell will erect residence at Nineteenth and Ray Sts.

SPOKANE.—Frank Hogan, Percy Howell and W. G. Davidson will erect residences on Wellington Place, Audubon Park, at total cost of $41,000.

John Gander will erect $60,000 residence on Sharp Ave. C. Harvey Smith, Eagle Bldg., Architect.

WALLA WALLA.—Walla Walla College, M. E. Cady, President, will rebuild structure destroyed, with loss of $75,000.

WEST VIRGINIA

HUNTINGTON.—John Rau, Sr., will erect business block on Fourth Ave.

MORGANTOWN.—Erection of armory is being considered. Lieutenant Price is interested.

WARWICK.—Protestant Episcopal Congregation is considering erection of edifice.

WHEELING.—J. E. Moss Iron Works, Schmulbach Bldg., will erect plant.

WISCONSIN

BELoit.—St. Peters Church, South Beloit, is considering erection of $15,000 edifice.

CHIPPEWA FALLS.—J. W. Keogh, Chicago, will erect factory. Progressive League is interested.

FOND DU LAC.—Turn Verein is considering erection of modern brick building.

MADISON.—Sisters of St. Mary will erect $75,000 hospital.

MILWAUKEE.—Architects Ferry & Clark, 419 Broadway, have prepared plans for erection of temporary stores at Wells and Third Sts., for Patrick Cudahy.
October 26, 1910

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15

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K
Kahn System of Reinforced Concrete 39
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L
Lane, Maynard E. 18
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Samson Cordage Works 40
Sandusky Portland Cement Co. 24
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Schiller & Sons Co., The 24
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Taylor, J. W. 18
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Vacuum Engineering Co. 19
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85% THRU 200—98% THRU 100

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Monarch Metal Weather Strips are the only kind that really interlock. They permit the removal of sash.

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"Quality First"
CEMENT COLORS
SUPERIOR—STRONG—SAFE
Dry Colors for Coloring all cement mixes.
BLACK—RED—BLUE—BROWN—YELLOW
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and of great interest to the man in practice. A limited
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ARCHITECT
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and carry the color properly.

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wood-preserving oil—the best shingle preservative known. That's why they're
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Are pronounced by leading Architects to be SAFE, DURABLE and EASILY
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One of the latest instances of the growing
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are now building.

SPREAD footings, entailing about 150,000
yards of excavation, were originally spec­
ified. RAYMOND CONCRETE PILES are
being substituted at a saving of nearly 100-
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the plant, excavation would have been elim­
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show more or less settlement, the RAY­
MOND CONCRETE PILE foundations sub­
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ages offered by Raymond piles, of our
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with illustrations of structures built on Ray­
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ARCHITECTS, ATTENTION!

Here is something you have been looking for a long time, a combination lavatory and dental basin cast integral. Absolutely new and unique, and a fixture that will fill a long-felt want. Furnished with special fittings as shown, which include bi-transit washers, three four-arm china handles and china index compression cocks, eureka pipes with china handles, faced trap, special waste connection, and flashing fixture for dental basin.

**Dimensions**

<table>
<thead>
<tr>
<th>Part</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slab</td>
<td>20 in. x 37 in.</td>
</tr>
<tr>
<td>Height of back</td>
<td>10 in.</td>
</tr>
<tr>
<td>Depth of apron</td>
<td>5 in.</td>
</tr>
<tr>
<td>Lavatory bowl</td>
<td>17 in. x 14 in.</td>
</tr>
<tr>
<td>Dental bowl</td>
<td>17 in.</td>
</tr>
<tr>
<td>Height of apron</td>
<td>7 in.</td>
</tr>
</tbody>
</table>

*Note: With the exception of the trap all the above fittings are made especially for this lavatory and must be furnished.*

This fixture is fitted up, water turned on and all fittings are carefully tested before shipment.

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Makes concrete impervious to water and gives absolutely permanent results. Does not affect strength, setting, or color of Portland cement. Not a wash or an experiment.

Write for prices and illustrated Pamphlets giving instructions for use.

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*For Churches, Concert Halls and Residences*

*With or Without Our Solo Automatic Player*

If tonal effects that “charm” are desired it should be an **AUSTIN.**

It cannot be imitated elsewhere, as we are the inventors and patentees of the famous **Austin Universal Air Chest System.** If unacquainted with it, you will be greatly surprised at the many advantages provided, both tonally and mechanically.

Write for descriptive book, which fully explains our work.

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HARTFORD, CONN.
Richmond, Va., August 17, 1910.
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Yours very truly,
CHARLES A. HARDWICKE, Supt.,
Branch Public Baths.

This particular Bath House was equipped with Speakman Showers with Non-scalding Regulating Valves.

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Catalogue "G" sent upon request.

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(We are in Sweet's Index)

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Broughton Mixer

are made of Iron and Steel. Paddles in screw form are placed on two shafts running in opposite directions, lift the material from the bottom of the case and throws it in opposite directions from one end of the case to the other, keeping it in constant motion and obtaining a perfect mixture.

The Broughton Mixers are durable and easy to operate, designed with great care. Duplicate parts can be furnished at any time. Send for booklet.

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An efficiency that results automatically from the distinctive construction principle of

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is shown by the above illustration.

The heavily galvanized steel forms are self-centering—no false work is necessary.

The forms remain a permanent part of the system and, with %"-inch steel rods, reinforces the construction so efficiently that the strength of this system is extraordinary.

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Any concrete or cement worker can easily install the system.

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RIPOLIN is a pure white Enamel Paint, for interior or exterior use. Widely used in the Old World. Specified by many of the leading Architects of this Country.

It is absolutely Permanent. Will never fade, peel or blister.

Can be washed without injury. Unaffected by the weather. 30% greater covering capacity than Domestic Paints. Wonderfully elastic. Looks like porcelain.

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We make a special study of special conditions.

Our experience is at your command.

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DAHLSTROM PATENT
HOLLOW SHEET METAL DOORS

We also make
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For Casings, Crown Mouldings, etc. Catalogue showing numerous designs sent upon application
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of nearly one-half million barrels of Universal Portland Cement to one railroad in a single year indicate the satisfaction which Universal gives the engineers of this road in their extensive and varied improvements involving every type of plain and reinforced concrete construction.

Universal Portland Cement Co.
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Annual Output 8,000,000 Barrels

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of the Mullins factory, together with the skill and experience of the Mullins artisans, makes the great line of Mullins Art Architectural Sheet Metal Work and Statuary the most comprehensive and beautiful in the country. Each piece is perfectly shaped thus insuring sharp, clean and beautiful effect.

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CHICAGO
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Although grinding frequently accounts for the difference between good and poor Terra Cotta the practice is far from general among manufacturers; few have the necessary equipment.

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MEURER'S METAL SPANISH TILE IN ALL METALS
BEAUTIFY any building on which they are used. Artistic in design, handsome, durable, never leak. Made from Roofing Tin and galvanized after being formed.

A PERFECT ROOF
HAVE been used on some of the largest and best known buildings in the country.
Write for Booklet showing Starting or Eave Tile, Hip Tile, Ridge Tile, Flashing Strip, etc.

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Kansas City San Francisco Seattle
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or Rent

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TUEC-170 STATIONARY Air Cleaning System

The illustration shows how it is installed. To clean any room attach end of hose to pipe-opening on that floor, press the electric button and a suction of 170 cubic feet or 300,000 cubic inches per minute draws in all the coarse dust and all the fine dust from carpets, curtains, walls, etc., and all the germ-laden air.

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We make larger sizes of the TUEC Air Cleaning Machines for hotels, schools, apartment houses, public buildings, etc. Write for further information.

The "NEVER SPLIT" Is Solid All The Way Around

as each joint is made as strong as the straight-grained hardwood pieces by the use of

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after ends of pieces have been tongued, grooved and glued. These bolts permanently clamp pieces together.

The "NEVER SPLIT" is guaranteed for five years not to split or spread at joints and its construction is a guarantee in itself.

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EVANSVILLE, IND., U.S.A.
Protect the Buildings at the Top

See to it that the roof is as permanent as the foundation, because the roof is just as important. Specify a roof that cannot leak, no matter what the climatic conditions—that cannot burn under any kind of a fire test—that will keep your buildings cool in summer and warm in winter.

The only roofing that fulfills these requirements is

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Made of Asbestos (stone) fibre and genuine Trinidad Lake Asphalt, it is practically indestructible. It is as permanent as the rock foundation you build on, and defies weather, time, fire, gases, chemical fumes, etc.

No skin coat of paint or gravel surface to wear away. No painting bill or repair bill. Its first cost is the only cost. See the blow-torch test illustrated below. Any other ready roofing would burn like tinder in a few minutes if subjected to such a test.

Ask us for a piece of Asbestos as it comes from the mines. Write our nearest branch for sample and Catalog 303.

H. W. JOHNS-MANVILLE CO.
Manufacturers of Asbestos and Magnesia Products

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No big beams are inserted in the concrete. No sticking of blocks to concrete and tearing loose with change of season. The floor lies solidly of its own weight. In case of swelling, owing to dampness, or even flooding with water, the floor swells as a whole and takes up the compression space in the border. If the floor shrinks again after such an accident the blocks shrink individually and the shrinkage is divided up so many times that no cracks are seen. In extreme cases the entire floor can be keyed up from the compression spaces.

The floor in the Baltimore Bar Library was flooded for forty-eight hours during the great fire, and is now as good as ever. The floor in St. Luke's Hospital has stood the test of years. Several carloads laid in New York Custom House.

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to enter the toilet rooms of schools, factories, hotels, hospitals, Y. M. C. A. buildings, etc., and find every closet in perfect order—no leaks—no odors—no soil—no unsanitary conditions of any kind.

MAXCO SEAT-OPERATING CLOSETS
are designed especially to meet this need—and to be a credit to architect, plumber, owner—and ourselves.

For Sale by 40 Jobbers of Plumbing Supplies

MAXCO CLOSETS ARE IN USE IN ALMOST EVERY STATE IN THE UNION.
(Over 200 in San Francisco Schools alone.)

WRITE FOR CATALOG H.

Specialists in Sanitary Pottery

THE TRENTON POTTERIES COMPANY
Makers of Superior Quality Porcelain Bathtubs, Lavatories, Closets and all Bathroom Accessories from China only.

WHEN you strike a knotty problem of law you call upon a lawyer specializing on real estate, corporation, or whatever it may be. You consult the man best posted and best able to give you the necessary information.

In specifying fixtures for the bathroom or toilet, call on The Trenton Potteries Company, whose facilities and long experience in the manufacture of sanitary pottery only, have enabled us to secure and maintain the reputation as makers of superior quality ware.

The Trenton Potteries Company
Trenton, New Jersey, U. S. A.
Herringbone Ingot Iron Lath

For Lasting Ceilings
For Permanent Partitions
For Outside Walls

HERRINGBONE INGOT IRON LATH IS RUST-PROOF AND FIRE-PROOF

It requires no lapping—each yard of lath covers a yard of wall.

It is made of AMERICAN INGOT IRON which is pure iron—clarified to those impurities which make steel and cheaply prepared iron a quick prey to the corrosive effects of acid plasters, gases or moisture in the air and the damaging influences of salt atmospheres.

HERRINGBONE INGOT IRON LATH

is the most economical lath when considering the cost of the building as a whole—for it permits the wide placing of studding, and can be easily handled by one man where other lath requires the labor of two.

Send for a sample of HERRINGBONE INGOT IRON LATH—place the sample in a solution of Sulphuric Acid, and note its resistance to all corrosion. Place a sample of steel lath in the same solution, and watch its rapid disintegration.

Sample for this test and our Architect's Pamphlet sent free, postpaid, on request. We want you to investigate, at our expense, the endurance, rigidity, and non-corroable qualities of

HERRINGBONE INGOT IRON LATH

Manufactured Exclusively by
The General Fireproofing Company, YOUNGSTOWN OHIO

Pyrobar Plaster Blocks

Superior to all Others

FIREPROOF SOUNDPROOF STAINPROOF

Tested and Approved by National Board of Fire Underwriters

Write us for particulars.

United States Gypsum Company
New York Cleveland Chicago Minneapolis Kansas City San Francisco
Roof Lighting

Various applications of "ANTI-PLUVIUS" PUTTYLESS SKYLIGHTS have been made on Industrial Buildings. We have issued pamphlets descriptive of some of the best of these and will send them for your information on request.

Monitor Ventilation

Ideas differ as to the type of sash that permits the best ventilation and is more near weather-proof. The "STRAIGHT-PUSH" SASH OPERATOR can be applied to all types and we may have some information that would help you to determine the kind best suited to your conditions.

Our business is the furnishing of "ANTI-PLUVIUS" SKYLIGHTS, "STRAIGHT-PUSH" and "LOVELL" SASH OPERATORS. We have gathered together much information in the course of many years furnishing these products and results achieved are available for your information and profit. We would be glad to hear from you if contemplating additional buildings or extensions.

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Illustrating one of our several designs of Slop Sinks

MONUMENT PORCELAIN SLOP SINKS are fast superseding all other types, on account of their durability and sanitary features. Also made in Columbian or Buff Ware.

Advance Edition to Catalogue "D" now being distributed. Write us if you have not received a copy.

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MANUFACTURERS OF PLUMBING GOODS EXCLUSIVELY
GOOD-BYE GARBAGE MAN!
The Stoddard-Kewanee
Garbage Burner
Sounds his Doom.

The Stoddard-Kewanee Water Heating Garbage Burner is the only perfected device that combines a highly efficient water heater with a private garbage disposal plant in one apparatus.

It provides the cheapest way of heating water in large quantities and furnishes a practical and economical means of destroying mixed garbage, hospital refuse, household and other accumulated rubbish when and where it is produced.

It evaporates and converts all waste matter into a combustible condition, assists in heating water for domestic purposes, and reduces it to an odorless ash, without emitting offensive odors or creating a nuisance, or maintaining an insanitary condition.

The Old Man Behind the Boiler is the fellow who builds these Garbage Burners, and will tell you all about them. There are no flies on him.

Send for Catalogue No. 55.

Kewanee Boiler Company
Kewanee, Illinois
Chicago St. Louis Kansas City

Yellow Pine
Factory Flooring

is suitable for factory, store, warehouse and loading platforms; or for any other floor where hard service is demanded.

Good sound common Yellow Pine, 3x3, 4x4 and 4x6, surfaced and jointed, laid with the Edge Grain of the timber to the surface, will insure a floor that is practically indestructible, will not sliver under wear, and will ordinarily outlast the rest of the building.

An Unchallenged Economical and Enduring Floor Surface for Heavy Mill Construction

Beside being durable and practical Yellow Pine factory flooring of such dimensions has strong fire-resisting qualifications. It is also recognized as being much easier on the feet of the workmen, and on the trucks and packages handled by them, than concrete floors.

Your first outlay is your only floor expense; and that is less than for other available wood or cement floors; although Yellow Pine floors will outlast them.

It has been for years the standard factory flooring specification by architects and mill engineers, one factory and warehouse recently built requiring over 817,000 feet of Yellow Pine for its floor surface.

For the laminated floor, thinner Yellow Pine factory flooring is used as the base: 2x6, 2½x6 and 3x6; tongue, grooved and beaded, or grooved for splines. The narrower widths and thinner depths of Edge Grain Yellow Pine flooring are used as a top floor, being laid diagonally across the surface.

For any information regarding Southern Yellow Pine, address:

Yellow Pine Manufacturers' Association
707 Wright Bldg. St. Louis, Mo.
WHITE
INTEGRAL SUPPORTS
for
FURRING BARS
PAT. NOV. 24, 1908

What they ARE
WHITE INTEGRAL SUPPORTS for furring bars are hooks or stirrups that are punched out, at regular intervals, of the main furring angle.

What they are FOR
WHITE INTEGRAL SUPPORTS for furring bars are designed to act as rigid and permanent supports for the cross furring bars of ceilings.

What they EFFECT
WHITE INTEGRAL SUPPORTS for furring bars offer just as permanent and dependable a support as is secured in the old and excellent angle-to-angle bolted ceilings. At the same time they cost no more than the unreliable method that has of late years crept into use of securing furring bars by means of more or less variable individual clips.*

What they INSURE
A glance at the accompanying sketch will readily show that nothing but an absolutely level ceiling can be obtained when WHITE INTEGRAL SUPPORTS for furring bars are specified and insisted upon.

WE WILL take pleasure in sending an illustrated booklet that tells the whole story, free upon request.

WHITE FIREPROOF CONSTRUCTION CO.

Concrete Fireproofing
Concrete Stairs
Metal Furring
and
Lathing

NEW YORK
PHILADELPHIA
ATLANTA
MONTREAL
TORONTO

*Metal furring and lathing is an important part of our business as well as 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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May 31, 1910: U. S. Circuit Judge Kohlsaat, sitting in Chicago, granted a decree against Streeter Brothers, forbidding them from using a Vacuum Wall Brush which infringes the McCrum-Howell Patent. This suit was brought under one of the eighty-five vacuum patents which the McCrum-Howell Company controls.

July 7, 1910: U. S. Circuit Judge Kohlsaat, sitting in Chicago, granted a restraining order against the Pope Automatic Merchandising Co., and Clarence R. Pope, forbidding the manufacture and sale of the “Pope Electric Cleaner.”

July 15, 1910: U. S. District Judge Carpenter, sitting in Chicago, after a full day's hearing, denied the motion of the Pope Automatic Merchandising Co., and Clarence R. Pope, to vacate Judge Kohlsaat's restraining order.

July 20, 1910: U. S. Circuit Judge Kohlsaat, sitting in Chicago, after a full hearing, granted the injunction asked against the Pope Automatic Merchandising Co., and Clarence R. Pope, manufacturers of the “Pope Electric Cleaner.”


July 26, 1910: U. S. District Judge Amidon, sitting in Minneapolis, after a full hearing, granted the injunction asked against the St. Paul Electric Co., and B. B. Downs, manufacturers of the “Downs Electric Cleaner.”

August 3, 1910: U. S. District Judge Denison, sitting in Grand Rapids, granted a restraining order against the Memomine Electric Co., forbidding the manufacture of Suction Cleaners in imitation of the RICHMOND Suction Cleaner.

August 16, 1910: U. S. District Judge Sanborn, sitting in Chicago, granted a decree against Streeter Brothers, users of a plant installed by a California company, enjoining the use of that plant because it infringes the Matchette Patent on Automatic Vacuum Control, now owned by the McCrum-Howell Co.

August 18, 1910: U.S. Circuit Judge Kohlsaat, sitting in Chicago, granted the Pope Automatic Merchandising Co., and Clarence R. Pope, permission to dispose of 1000 cleaners on hand only on condition that a $20,000 bond be given to protect the McCrum-Howell Co., and that each machine be plainly marked, “Not the Richmond Suction Cleaner manufactured by the McCrum-Howell Co.”

The McCrum-Howell Co., at a large expenditure, has brought together, under one control, all of the important Vacuum Cleaning patents.

Thus enabling the public, for the first time, to obtain in a single system all of the ingenuities of many inventors.

WARNING

All persons are warned that henceforth all authorized stationary vacuum cleaning plants will bear The McCrum-Howell Company license plate. Systems offered without The McCrum-Howell Company license are infringements and we will subject not only the makers thereof but also the purchasers and those who use them to damage suits, which in all cases will be promptly instituted. Please be sure to look for The McCrum-Howell Company license plate, which is to be found in each case on the vacuum producing apparatus.

THE McCRUM-HOWELL Co.

GENERAL OFFICES:

Park Ave. and 41st St., New York City

MANUFACTURERS OF

ECONOMY Heating Systems—ECONOMY Bath Tubs, Lavatories and
Sanitary Plumbing Devices—ECONOMY Concealed Transom Lifts—ECONOMY Suds Makers—ECONOMY
Suction Cleaners—ECONOMY Vacuum Cleaning Systems

FIVE PLANTS:

One at Norwich, Conn.—Two at Uniontown, Pa.—
One at Racine, Wis.—One at Chicago, Ill.

Notice to Architects

Architects and Engineers are invited to make free use of our engineering department in solving vacuum cleaning problems. We do not guess at any requirements—having a system of accurate tests for all machines. You are invited to visit our Department of Physical Research at the New York office and make your own tests.
BRANFORD SYENITE

The Favorite Granite in Monumental Work

Retains The Highest Polish

Has been selected for the pedestals of the most prominent statues unveiled during recent years such as Frederick the Great, Washington, D.C.; Wm. McKinley, Adams, Mass.; Gen. William T. Sherman, Central Park, New York; Gen. Joseph Hooker, State House Grounds, Boston, and George F. Hoar, City Hall Park, Worcester, Mass.

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