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AS with this issue the *American Architect* completes the twenty-first year of its existence, and so rounds out the term which is usually assigned to the adolescent period of man's development, and as this period corresponds precisely with the birth and development of modern architecture in this country, our readers might be disposed to pardon us should we indulge in a review of these years and point out where and how this journal has, as we think, ably played its part and been of real service to the profession. We might, too, indulge in prophecy and declare that if our advice and aid have been productive of good during the period of our editorial youth, it might fairly be inferred that our manhood's work would be more effective still. But to do either of these things would be mere waste of words. The journal speaks for itself; it is and has been either good, bad or indifferent, either effective or ineffective, either an aid or a detriment in all that concerns the growth of an enlightened appreciation of architecture on the part of the public, and a better understanding of its requirements on the part of those who undertake to practise it. What we have done in the past has been done always with the best of intentions and the most unselfish of motives, and we have no reason to suppose that in the second climacteric period now opening our methods of work and the work itself will have any other than a normal development. To mark this entrance to manhood's estate, as it were, we propose to increase this year the number of illustrations to be published, and specifically charge ourselves with the maintaining the real architectural value of this additional matter. If architects who kindly contribute drawings will, in their turn, charge themselves with making sure that the drawings they contribute also have a specific, and not a merely general, value, we feel that much may be done, and with no great difficulty, to make the illustrations published from week to week more useful and interesting than ever.

ARCHITECTS who are careless about their certificates should take warning from a case recently decided in England. A certain architect agreed to furnish plans and specifications, and superintend the erection of a house, to cost about forty-five hundred dollars, for the modest sum of seventy-five dollars. When the plans were ready, a contract was made with a builder for their execution, with the stipulation that payments should be made on account of the contract price, upon the certificate of the architect, at the rate of not more

than eighty-five per cent of the value of the work done. Things went on for a time, when the builder failed, and the owner had to get the house finished by other parties, at a total cost of nearly six thousand dollars. It then appeared that the architect had given certificates to the original contractor to an amount greater than the value of the work done, and that he had been paid thirty-five hundred and fifty dollars on these certificates, when he ought only to have had twenty-four hundred. The owner, who was a lady, sued the architect for negligence, claiming as damages the difference between what she had actually paid the first contractor and what she ought to have paid him, if the architect had certified only the proper amounts, and was successful, the jury awarding her a thousand dollars, which the architect had to pay. A very similar case was decided in Canada some years ago, in exactly the same way, so that architects may make up their minds that there would be small chance of escape for others caught in such a predicament.

WHERE is something interesting, however little one may sympathize with new ideas on such subjects, in the progress of the fashion of cremation of the dead. Singularly enough, cremation is practised to a far greater extent in Paris than anywhere else, not because the Parisians have lost their characteristic respect for death and the departed, but for the reason that the bodies of friendless persons who die in the hospitals, as well as the subjects from the dissecting-rooms of the medical schools, are burned, instead of being buried. According to an article in *Le Monde Moderne*, which we can highly commend to our professional readers, on account of its beautiful illustrations of the monuments in the great cemetery, the *four crématoire* in Père Lachaise, which was built in 1888, has, since that time, consumed about thirty-five thousand bodies. It is not surprising that its chimneys give off a perpetual cloud of vapor, but only a very small portion of this comes from the remains of persons who have voluntarily chosen that mode of disposal. In 1890, two years after the establishment of the crematory, there were one hundred and twenty-one "paid incinerations"; the next year there were one hundred and thirty-four; and the number has continued to increase steadily, reaching two hundred and eighty-seven in 1895. A part of these cremations probably took place at the desire of relatives who wished to spare themselves the trouble and expense of an ordinary funeral; so that the spread of public sentiment among Parisians in favor of incineration for themselves is, apparently, very slow.

IN this country, cremation seems to be more in public favor, but the antics of certain people, who tried to make use of it to show their aversion to religion, have probably done much to counteract the effect of its undoubted sanitary advantages. The crematory at Fresh Pond, on Long Island, which has been in operation for eleven years, is said to have incinerated 1,881 bodies, two-thirds of which were those of men. Of the others, 496 were those of women, 98 of boys, and only 73 of girls, few people, apparently, being able to reconcile themselves to the idea of burning the corpses of their little children, whatever might be their fancy as to the disposal of their own remains. At the Fresh Pond crematory there is, apparently, no gratuitous incineration. Thirty-five dollars is charged for the burning of a body, if the ashes are simply collected and given to the friends of the deceased. If they are put in an urn, this must be purchased, at an expense varying from nine or ten dollars, upward, and a niche in the "Columbarium" to receive the urn costs from fifteen to twenty-five dollars, and a door to keep it safe costs an additional sum. This, of course, does not include the expense of carriages for mourners, or any of the usual accompaniments of a funeral.

ACCORDING to one of the daily papers, Mrs. Kitson, the sculptor, is engaged in executing a colossal statue of one of the most peculiar heroes who ever adorned our history. This great man is Ezekiel Hopkins, the first Commodore in the American Navy, who served his country on the sea for the space of ten months, during which he spent his time, according to the testimony of one of his principal officers, in "keeping out of harm's way"; had his proceedings investigated twice

by a Committee of Congress, and was publicly censured on account of them, and was finally dismissed the service in disgrace. The soul-stirring memorial which is to recall his exploits is to stand in the City of Providence, where it is, apparently, to teach future generations of Rhode Islanders how undying fame is to be won. Without being too critical in regard to other people's affairs, it certainly seems as if more discretion might be exercised than is usual in this country in the choice of subjects for public memorials. As our Governments, National, State and municipal, avoid, on principle, any meddling with the fine arts, such statues as we have are almost all paid for by private subscriptions from people who often know very little, and care still less, about the merits of the personages whose career they help to commemorate. We remember very well the starting of a formidable subscription in New York to pay for a statue of William M. Tweed, to be set up in some conspicuous place in the city; and if the original of the statue had not been just then indicted and shut up in the penitentiary, there is little doubt that the subscription list would have been filled, and the work carried out.

NOW that the United States has become the greatest iron-producing country in the world, it is quite time to think of utilizing the incidental products of the iron-manufacture, as is done in Europe. In Germany and France, the slag from blast-furnaces is now converted, on an immense scale, into cement, which, although somewhat less uniform, apparently, than the best Portland cements, is capable of replacing them for many purposes, and may be utilized, in the place where it is produced, for making drain-pipes, tiles, paving bricks and many other materials which are always sure of a market. Among us, the conditions are particularly favorable for such an industry. A large part of our most productive iron-furnaces are situated in the South, in the very part of the country in which good cement is obtained with most difficulty, while labor, to convert the cement on the spot into useful articles, is comparatively cheap. Many slags, where lime is used for a flux, contain, without addition, just the proportions of alumina, silica and lime of the best Portland cements; and, where the natural proportions are not just what is required, any ingredient that may be lacking can be added to the slag in the grinding.

EVERY one knows that it is becoming common now to join the rails of railway tracks firmly together at the ends by welding them in place with an electric welding-machine. Continuous rails nearly ten miles long have been made in this way, and, as it is always the ends of the rails, at the joints, which are first battered to pieces by the shock of the car-wheels running over them, the continuous track is more durable, as well as more favorable to comfortable travelling and to the life of rolling-stock, than the ordinary track, made up of short, separate rails. In the continuous track, however, is involved a curious physical problem. It is unnecessary to say that, in the ordinary system, the short rails are laid about a quarter of an inch apart at the ends, to allow for expansion by heat, and there are many instances of derailment due to the contortion, in hot weather, of rails laid without sufficient space between their ends. If, then, a rail twenty-five or thirty feet long must have a quarter of an inch play at the ends, to prevent it from being forced out of shape by expansion, how is it possible to use continuous rails ten miles long, with no provision for expansion? The practical answer to this question seems to have been discovered before the theoretical one. Although it was at first feared that the effect of expansion would be such as to make it dangerous to weld more than two or three rails together, it was found that no evil result came from increasing the number, and there is now apparently no limit to the safe length of the continuous rail, the distortion due to expansion being no more serious in a rail ten miles long than in one of thirty feet. *Le Génie Civil* gives an interesting explanation of this phenomenon, due to M. Ch. E. Guillaume. As an introduction, M. Guillaume recalls the fact that a metal bar is capable of being compressed or extended to a certain amount by mechanical force, returning, if the force does not exceed the elastic limit of the metal, to its original form after the removal of the strain, and shows that mechanical force, within the elastic limit, can be applied to counteract the effect of thermal expansion or contraction. Thus, supposing that a steel wire will stretch one twenty-thousandth of its length under a strain of one kilogramme to the square millimetre of

section, it is evident that if such a wire, suspended from a fixed point, is exposed to a certain fall in temperature, in this case of about four and one-half degrees Centigrade, and, at the same time, weights are gradually attached to the lower end, to the amount of one kilogramme for each square millimetre of section of the wire, the thermal contraction, due to the fall in temperature, will be exactly counteracted by the stretching due to the loading, and the length of the wire will remain unchanged. Moreover, as both the stretching due to the load, and the thermal contraction, are proportional to the length of the wire, they will compensate each other in a wire a mile long just as accurately as if its length were a quarter of an inch. In the case of continuous rails the same action takes place as in a suspended wire. While a short rail, which is free to move, must yield to all the effects of thermal action, a continuous rail two or three miles long, weighing from one to two hundred tons, and attached to the ties by three or four thousand spikes, is in the condition of the wire attached at one end to a fixed point, and carrying at the other end a load, or resisting force, which only comes into action in case of thermal effort on the rail. When this rail is heated above, or cooled below, the temperature at which it was laid, the expansion or contraction due to the change in temperature is resisted by an immense force of friction, distributed throughout the length of the rail, and converting the thermal effect into a strain of compression or tension in the substance of the rail itself, instead of the actual lengthening or shortening which would be produced in a rail which could move freely. It is evident that this strain of compression or tension may be very severe, and that, being proportional to the length of the rail, it will be better endured by a rail of large sectional area than by a slender one, and this conclusion accords with observation, which shows that light continuous rails suffer far more from thermal effect than heavy ones.

PEOPLE who wish to send machinery, models, or even drawings, by public carriers, should learn a lesson from a case recently decided in France. A certain M. Lefèvre, having some important and pressing work of excavation to do, ordered an excavating-machine from M. Pelous. The latter sent the machine by fast freight, packed in seven boxes. Six of the boxes arrived safely, but the seventh, which contained the bolts required for setting up the machine, was lost on the way. Not being able to put the machine together, M. Lefèvre could not use it for his work, and suffered a considerable loss in consequence. He sued M. Pelous for damages, suffered in consequence of his failure to deliver the machine in condition for use, and the latter sued the railroad company, to whose fault the failure was due. The company acknowledged that it was responsible for the loss of the box of bolts, and tendered their value, amounting to a few francs. As to any further damage, the company disclaimed liability, under the rule of the Code, which says that "The debtor is liable only for damage which was foreseen, or might have been foreseen, at the time of the contract." This defence might have prevailed, but it was shown that when the box of bolts was shipped, the marks upon it plainly showed that it formed one of a series of boxes containing parts of a machine, so that the company could infer that all of them were necessary for the proper setting-up and operation of the machine; while the fact that freight was paid for at a very high extra rate, in consideration of quick delivery, was held by the Court to be sufficient evidence that any delay in the reception and putting together of the machine would be prejudicial to the consignee; and the railroad company was condemned to pay the damage that Lefèvre had suffered.

ARCHITECTS visiting New York should not fail to see the new drawbridge over the Harlem River, which, when completed, will be the largest in the world. The design of the bridge does not differ materially from that of other draw-spans recently built in this country, but the scale is unusually large, and, as it happens, there is a very favorable opportunity for examining it. In connection with the new bridge, an interesting viaduct, for four tracks, is in process of construction through the upper part of the city, high above the present tracks, supported on columns, which rest on foundations contained in the present retaining-walls. The whole work is a marvel of ingenuity and forethought, and, as such, will command the appreciation and admiration of architects, nearly as much as that of engineers.

THE CASE AGAINST THE ÉCOLE DES BEAUX-ARTS.¹

THE title which the Secretary of the Society and I selected for the very short paper I am going to beg you to listen to with such Christian charity as you possess, is hardly descriptive. It is a little in the line of a "scare-head" and I want to modify it. I don't mean to savagely attack the École des Beaux-Arts, and by implication, all other Architectural Schools where the academic system of instruction is in vogue. If I wanted to, I should not have the right, for I never had any practical experience in any school of that kind. I should be adopting the malodorous tactics of a certain notorious personage in this city, who proceeded to damn the exquisite statue of a Bacchante, now flitting elusively through the courts of the library, before he had seen it.

What I do want to attempt, however, is an inquiry into the methods and results of this system of education, with a view to finding out if it isn't defective in certain directions.

Ever since I came to look on church-building as one of the most promising fields of architecture, and as one of the most dignified and satisfying as well, I have been thinking more or less about the present system of architectural instruction which by implication denies that architecture existed between the Fall of Rome and the Sixteenth Century, and also ignores the fact that churches are ever built nowadays, or that they are a legitimate subject for an architect's consideration. The more I thought about this curious phenomenon the more remarkable it appeared, but I set it down to the rationalism that pervaded every department of life, until a few years ago. Of course it was impossible for atheism to acknowledge any beauty in the work which owed its genius and its very experience to an exploded superstition, while it was equally impossible that the buildings which were grotesque anachronisms, the outward expression of a fast perishing folly, should be looked on as matters of the least importance. Under the circumstances, ancient and neo-paganism were the only modes of civilization that offered anything of value as models for contemporary architecture.

I still think this motive lay at the bottom of the thing when the present method of architectural education was evolved, but during the last year or two, various things occurred which led me to think that other criticisms might be brought against the accepted system, besides its ignoring a very important branch of the art and doing nothing to assist students to acquire some knowledge that would be of use to them in this field. Among other things, I became convinced that much time was wasted in acquiring useless methods and information, that false canons of taste were often laid down, that enormous labor was wasted in cramming the mind of the student with the most minute details of construction, strength of materials, etc., in order to fit him for practical work, while almost nothing was done to help him to tackle the only problems that in all probability would come before him for the first ten years of his practice.

I mean to speak of these things more explicitly by and by, but first, I want to tell you just what the events were which brought me to my present position of antagonizing this system of classical education.

Well, first of all, some time ago I knew a young draughtsman who was enthusiastic and eager to acquire all the useful information he could find. He joined a class in planning, directed by a very brilliant representative of that system which prides itself enormously on its prowess in this particular direction.

There was trouble from the start. This boy was practical to a degree and loaded with common sense. He soon found out that the questions of convenience in arrangement of rooms, their dimensions, economy of space, adaptation to function, harmony with environment were secondary considerations. There was one great thing to be obtained, and that was a decorative plan. The lights and darks must be well proportioned. Formality and perfect balance were indispensable, and a finely drawn piece of mosaic flooring made amends for a deplorable lack of light.

In fact, he was really engaged in decorative design, not in architectural planning.

Diplomatic relations finally ceased in this wise: he grew weary of designing impossible city-halls and inadmissible Italian villas, and handed in—horrible to relate—a scheme for a large village church, English Perpendicular in style, and carefully arranged with regard to its needs and possibilities. Of course, he did very wrong to do this; he should have known that a country church is not to be spoken of in academic society. The plans went in, however, and there was war. When the instructor got his breath he tackled the awful situation bravely—for he was a conscientious man. I saw the result afterwards, when the smoke had cleared a little. What had been a good plan, well adapted to its functions and laid out with due regard to cost and surroundings, irregular of course, and capable of very picturesque, though quiet treatment, had become a nice study in black lines and spots, and white areas beautifully proportioned to them. It was admirably done, and would have made a charming figure in a formal wall-paper, but it would hardly have commended itself to a building committee.

So far as the exterior was concerned, the revolution was complete. Every vestige of English spirit was gone, and Montmartian Romanesque had taken its place.

A little later, a friend in whom I was very much interested, and

who was just about to graduate from the architectural department of a prominent school, asked me if I did not think it would be a good idea for him to submit a design for a Gothic church as his thesis. I remembered the experience of my friend the draughtsman, and tried to dissuade him from his insane idea. He persisted and fought nobly. Day after day with tears in his eyes he told me how his cherished plan was being maltreated, until it was fast becoming that kind of thing one finds in trade-books on church-building. At last he gave up the unequal fight, for he had been kindly but firmly advised that he was running an awful risk in sending in such a thing as a thesis drawing of a Gothic church. He began again, and achieved a proud success with an Italian villa, in which the toilet-room and breakfast-room were beautiful oval apartments of equal size, balancing nicely, while the library occupied one projecting wing, the kitchen the other—the external treatment being identical.

Finally, one of our boys wanted to take a course in an architectural school and asked my advice as to where he should go. I did my best to study up several schools, and in the process I found out things I had never known before. In one school the academic rendering was something exquisite, and the beauty of the transparent shadows and the lovely small trees was only equalled by the fabulous size of the sheets of paper on which a little square of plan was magnificently surrounded by the most wonderful gardens. I reflected, however, that it took a month of a boy's life to create one of these charming things, and that after he left the school no conceivable circumstances could arise which would lead him to indulge in this form of decorative art, and so modified my admiration.

In another school I was assured that the system of instruction was modelled with absolute fidelity on that of the École des Beaux-Arts, but I reflected that in America a young architect's duties are chiefly the designing of country houses and churches, and that the results achieved in these lines by the output of the École—so far as France is concerned—are not brilliantly successful. Finally, I recommended the architectural course at Harvard as the most practical and logical, and as the one least accurately modelled on French lines, and I have no reason, thus far, to regret this decision.

The result of my experiences and investigations was that I became convinced that the accepted system of education, as we see it in the École and in practically all but one of the schools in America, did more harm than good, and I want to justify this position if I can.

First of all, however, I must declare my intense admiration for certain principles held in this system, and my gratitude for the influence exerted. It is unnecessary to plead for these things, however, for every one admits them. One is the steady curbing of a student's tendencies towards fantastic originality, silly picturesqueness, crazy irregularity. I doubt if this work could be done better than it is, and it is imperative. It is about the only thing that can reform architecture in America and redeem it from its only too often fantastic absurdity. There are many other fine points in the system: the thorough grounding it gives in the classical orders, the training it affords in proportion and composition, the solid kernel of good in its system of planning; but if none of these existed, the first *raison d'être*, the civilizing of barbaric impulses, would be cause for praise and admiration.

On the other hand, the faults are, I think, quite as clear and deserving of sincere condemnation.

Many of these faults, while not very grave in themselves, have a mischievous effect for the reason that, in too many cases, young men are subjected to them at just the wrong time. If a man could have three or four years' experience in an architect's office, then travel for a year or two on the Continent and in England, he would be proof against bad influence; his taste would be formed, practical ideas and the nature of every-day requirements would be instilled into him, and he would then be in a position to reject the bad and accept the good. And he would do this. Very few men, after a little solid experience and a fair acquaintance with the architecture of Europe, could fail to see through some of the methods and principles with which he would come in contact in the École. This course is seldom pursued, however, and a raw, unformed youth goes through an American architectural school, and then passes directly to the École, and the result is that in many cases his taste is vitiated, and he is in no position to select the great good which is afforded him, together with much of what I think very bad, and which if he would succeed he must diligently forget.

I have had occasion to advise a lot of boys as to how they should educate themselves for the architectural profession, and in every case I have urged them to get a little practical experience first, then see all they can of the art of the past, and then go to some academic school.

Admitting, then, that students are themselves largely to blame for the harm done them, since they start at the wrong end, let us see just what the harm is—at least, let me suggest what it seems to me to be, for I can only express my own feelings in the matter. I have no right to claim to represent any one else.

In the first place, the education in design is not practical; it does almost nothing to fit a man for actual practice. In the American school a student is crammed with stores of information that belong by right to civil engineers, sanitary engineers, specialists and experts. Judging from the list of studies in any four years' course, one would conclude that the object was to turn out men who could start in business the day after they took their degree, armed at every point and absolutely independent of experts and engineers

¹ A paper read by Mr. Ralph Adams Cram before the Boston Society of Architects, December 4, 1896.

for all time. Look at the artistic side and you find the exact reverse. In nine cases out of ten, a man just through an architectural course has never designed a country house, an eight-room school-house, a country church, an apartment-house, or any other of the very things which alone he can get a chance at for ten years of his professional life. His custom-houses, post offices, city-halls, public-baths, have been designed for ten-acre lots, and with a ward politician's disregard of expense. He has been taught to space his voids and solids with exquisite delicacy, but in almost no case can he yield to this instinct in the future, for the conditions won't allow it. If by good luck he gets a chance at some big public building, he lays out the plan on a system of units, and when it is too late, he finds that hot-air ducts and exhaust flues have played tag with them. He has a twelve-story office-building sprung on him and looks in vain for scholastic precedent. Finally, in despair he takes a lot of theses and pastes them together, one above the other, and trusts to the great American public to justify him.

Submit this statement to an advocate of the schools and he will wave it away. "We teach the great fundamental principles of the art, we cannot concern ourselves with the details." But that is just what the poor architect has to do, and until he has made his reputation, designing houses and churches, and his fortune building steel-framed slices of office-buildings he must keep his mouth shut as to the great principles of the art.

Of course, it seems to me that it is a crime and an outrage for any alleged system of architectural instruction to ignore the great centuries of the Middle Ages, to deny that there ever was such a thing as Gothic architecture, and to forget that churches are still to be built. I am an awful fanatic on these points, and so I don't dare say very much about them, but it is my solemn conviction that if we ever succeed in civilizing ourselves, we shall one day admit that Gothic architecture is just as perfect in style, just as solidly based on knowable laws, just as representative of high civilization as the architecture of corrupt and tottering Rome and of the immoral Renaissance; while in impulse, in spiritual power, in beauty of line and mass, and light and shade, it is incomparably more worthy of study and of admiration.

Nor is the argument that it is unfitted to modern uses valid for a moment. It does not go in the matter of office-buildings and synagogues and Unitarian churches, and city-halls, of course, nor ever can, until both style and requirements are modified by time. It is not in harmony with modern civilization; it is an anachronism, that also is sure. But it is in harmony with the nature of those still vital institutions, the Roman Catholic and Anglican Churches, which are still blazing anachronisms—thank God.

Yet the great period of architecture when it was essentially *Christian*, that period which expressed itself in a form which is incomparable for splendor of imagination, loftiness of spirit, sublimity of inspiration, absolute, abstract beauty of form and composition and design, has no place in the modern system of academic instruction, and I propose to hold with all the vigor I can command, that a system that wilfully shuts its eyes to all this marvellous period of art, so instructive, so civilizing, so full of inspiration—is a bad system.

Here is another criticism on a different line. In nearly all the schools which ape the École, a vast amount of time is given to the matter of academic rendering. I wish I knew just what this training is supposed to accomplish. We live in a period when an architect who knows how to render his drawings is pulled back to the level of those who don't, and he must sacrifice his ability for the good of a less competent man. Therefore, a competition perspective is "rendered in line only, without shadows or accessories, and with one figure intended to give scale." Under the circumstances, the old fetish of academic rendering would seem to be no longer potent, but it is dominant just the same, and hundreds of valuable hours are wasted by misled students in making wonderful drawings that are without the least practical use whatever. Neither are they beautiful. They are wonderful as examples of manual dexterity, but, for the life of me, I can't see that they are anything more, and the time lavished on them might, I think, be at least equally well employed in learning that there are in existence buildings in Chartres, and Amiens, and Gloucester and Durham, which may possibly be worth looking at.

I have already referred to the defects in the boasted academic system of planning. Let me specify them a little more carefully. They appear to me to be very serious. I have studied academic plans a good deal, and it seems to me that the majority of them show signs of having been studied out as problems in decoration, not in building. That is, the student has had in mind the making of a decorative design which should be pleasing to the eye, not necessarily compact in arrangement, convenient in composition, or indicative of fine effects in actual construction. Looked at as an ornamental figure, the typical academic plan is very successful. In a competition it would receive no consideration. If used as a working plan the resulting structure would be a failure.

Again, in the École at least, I know it to be a fact that the only drawings that are considered as important are the first-floor plan and the front elevation. The former *must* be powerful and imposing—on paper; the second-floor plan may come anyway, and as for the section, it is worked out on the last day, principally by "niggers." I believe the general experience is that it never comes out right, but this does not matter, for constantly designs are placed first, the sec-

tions of which show that they could not be constructed, while the second-floor plans show chimneys starting from the ceilings of "*salles des fêtes*" or anywhere else, and partitions without any support whatever. And there, also, is a point to be severely criticised, the undeniable fact that in spite of the apparently severe first year's training in construction, this item is not at all considered in the design, and it does not militate in the least against the success of a plan that the partitions and chimneys on the second floor depend for their support on the same miraculous agency that held Mohammed's coffin suspended in mid-air.

It is the same in the matter of lighting and ventilation. So far as studies are concerned, students are taught enough about these things theoretically, but are they induced to apply their knowledge in actual design? I am told not, and I have known of innumerable cases where much-praised designs have had as features, important rooms with a single window in one corner, and school buildings with no provisions for ventilation whatever. In the first case, the rooms *had* to be where they could not be lighted, for the balance of the plan demanded it; in the second, heating and ventilating shafts were omitted, because they were ugly and injured the unity of the plan.

It may be said that the idea of the system is not to teach practical design, but to create in a student's mind an ideal to which he will afterwards always endeavor to approximate. This may be, but if an ideal is utterly impractical, it is not much use as an ideal.

Then there is another criticism, the last I shall inflict on you. I know for a fact that in certain schools types of architecture which are inherently and damnably bad are held up to honor over types which are eternally good. Here is an example which came under my notice: The *projet* was a doorway. Among the designs was one, rococo to a degree, the columns on either side being drums, alternating square and round—you know the style. With it was handed in a drawing equally well rendered, but in a pure and delicate version of the early Italian Renaissance. The first represented a style debased and corrupted, the second, that style while it was pure and admirable. The rococo design was placed first in the award.

Now this is a small matter, but it is significant, for if it is possible for the academic system to become an agency for the debasing of a student's taste instead of cultivating it, it is a legitimate subject for savage criticism.

These are some of the reasons a certain class of men have for distrusting the system at present in vogue in architectural schools, and the prejudice is growing, not lessening. Recently we have seen an honest and a courageous attempt made by various men who have studied in the École, to exalt its name and influence. But does their method do away with the distrust of those who cannot accept the teachings of the academic system? On the contrary, it intensifies them. Unless I am mistaken, these zealous upholders of the École, nearly all of them masterly architects to whose work one must look up with honest admiration, inaugurated their movement with a competition drawn on the most approved lines of the École des Beaux-Arts. I read the programme with delight. Anglomania wasn't in it. This was Gallomania raised to the *nth* degree. Once more our immortal old friend put in appearance, the "wealthy amateur" with the precious columns and amazing tastes, and, to prolong the influence of the Academic system, draughtsmen were urged to yield to the blandishments of the aforesaid wealthy amateur, and assist him to dispose of his white-elephantine columns to academic advantage and the glory of the system.

I am sure I was not the only one who wondered where was the use of all this, of what possible benefit could it be to young fellows who are trying to make a living out of architecture. Where was the good? I confess I could only think of the lamented Mr. Pecksniff, who was such a shining light in the profession, "Well, you might design a pump: now a pump is *very* chaste practice."

I am told that the problem this year is on the face of it a very complete surrender to Americanism and modernity, being nothing more nor less than a harmless, necessary, tavern. This is excellent. Visions rise up at once of a lot of drawings wrought out in varying styles. One, perhaps, with the dignified walls and delicate details, the magnificent chimneys and fine verandas of Colonial Maryland. Or it may be one that brings back the memory of jolly days in little English country towns, with the amiable bar just behind and a "pint of bitter" at one's elbow. With this subject, the chance for young architects to do work that should be charming and in every way appropriate is infinite. But will any design on English or American lines find favor? Hardly. One would risk little in wagering that the prize design would be laid out on a unit of eight, that its roof would be low and covered with red tiles, and that it would bask in the glare of a Connecticut sun, in the midst of colonnades and pergolas, and fountains and statues shown by little vermilion squares.

Well, here is where I stop what you will think a very unbridled tirade, but I assure you that I mean no harm by it. If anything can curb the ardor of our untamed American spirit as it expresses itself in architecture, it is the influence of academic training. But just because it may do this, it does not follow that the system is impeccable. For my own part, I still think it is perccable, and I don't know why I shouldn't say so. If, instead of exalting the École and all its works to the skies, its advocates would try to see whether or no the local and contemporary conditions in America might not modify it to advantage, we might obtain a system which would be

above criticism—even of architects who never had any academic training, whereas now we have one which knocks the nonsense out of students but doesn't put much sense in its place. A system which strives to destroy, but does not succeed in building up—in which respect it resembles this dissertation.

DISCUSSION.

MR. PEABODY being called upon, spoke somewhat as follows:

As the oldest "*élève de l'Ecole*" present, he would like to say something in loyal praise of his old *atelier* and of his "*patron*." In fact, his respect for their instructions gained constantly as he increased in years and experience.

Mr. Cram had, however, set forth his views in so captivating a manner as to take one's breath away. His clever words had here and there such evident truth in them that it was difficult not to agree with a few of his conclusions. But even Mr. Cram would probably admit that the plan of an Italian villa which he had described was a bad French plan and not a good one; bad as any other plan of any other school can be bad. A French master would avoid the errors that Mr. Cram had pointed out and would make the most of the good that can be gained by academic study. Surely, a system that could produce the "*Grand Prix*" designs of the earlier part of the century must be a good system. If in these later days the same high standard is not maintained by Grand Prize men, it must be owing to the present quality of the French students and people rather than to the system.

Probably the reason that most of us think well of an academic and classical training is that it is a powerful agency against the barbarisms and license to which among us both students and architects are prone. It is a better corrective to such failings than a training founded on the more restless, picturesque and complicated models that appeal so strongly to Mr. Cram.

Mr. Peabody was glad to hear the Harvard School commended, for he thought that Mr. Warren and Mr. Newton had started with a sound and proper theory. Most of us see a source of weakness in adopting blindly in our American schools formalities that may, perhaps, be suitable in France. These gentlemen are acting upon a theory which most of us can cordially indorse. They hope to apply the methods of the French *Ecole* to modern and native American problems. In this way, perhaps, the principles inculcated at the *Ecole* can best be turned to American uses. We who are indebted to that famous institution can, perhaps, in no better way express our loyal appreciation than by encouraging such reasonable adaptations of her principles.

MR. C. HOWARD WALKER said that in a discussion of Mr. Cram's paper, it would be evident that his point-of-view would not be as far away from the best qualities of the *Ecole* teaching as at first appears. Academic training lays stress upon the beauty of proportions, both in plan and elevation, and it is proved by experience that there is an actual connection between a beautiful plan and a good exterior, even if one is not the corollary of the other. The objection to be made by us is not to the creation of a conventional method of treatment, but to the subsequent carrying that convention to an excess, which is very plainly manifested in the work of the *Beaux-Arts* men. As it happens, it is a convention which is inferior at its best to the greatest work of Greece and Rome, and of Renaissance and Gothic periods, and upon this inferior standard is based a conventional method of design, which in the hands of mediocre men must fall correspondingly below the ordinary work of the past.

If the work of the *Ecole* in the early part of the century, the work of Famin, Percier, Fontaine, and later of Labrousse and Duban, and still later of Vaudremer, is held up to represent the result of the *Ecole* teaching, I imagine Mr. Cram's contention would be much less, but unfortunately this does not represent the general result of *Ecole* teaching.

I made at one time a list of most of the important buildings erected in Paris from the year 1800 to the present day and published the list in the *Architectural Review* with the names of the architects—and, with a few exceptions, such as the *Opéra*, the *Cour de Cassation*, the *Bibliothèque St. Geneviève*, from 1830 to the present time these buildings were far from being very creditable performances; yet they may be held to represent the average of achievement of the *Ecole* teaching.

The formulated conventions of this teaching, based upon axioms and developed into idioms, are to be forced upon us whether we will or no, and despite natural conditions and desires.

It is to this deliberate attempt to cram *Beaux-Arts* methods down our throats and to make the designer bolt whole all the "*bêtises*" of the French school which produces a revolt, and if I am not mistaken that revolt is already apparent in the ranks of the *Beaux-Arts* Society men themselves. Academic teaching is one thing, *Ecole des Beaux-Arts* teaching quite another. The former uses as factors some very well-established architectural motives as a means of defining proportions; the latter, starting out with the same intention, has shown and still shows an ever prevalent taste for the most debased forms of those architectural motives, and considers that its lack of discrimination has as its compensation the very fundamental principle of just proportions upon which all architecture worth the name is based.

It becomes therefore a matter of taste, and as I understand Mr. Cram and agree with him, the testimony of the usual *Ecole* work shows very poor taste.

MR. COOLIDGE (J. R.) said that, among other products of the system of instruction at the *Ecole des Beaux-Arts*, Mr. Cram found fault with the decorative plan, the plan shaped for its looks, designed, as he said, like a figure in a wall-paper. For his part he did not admit that the teachers at the *Ecole* advocate the production of a decorative plan as an end in itself, but they do believe, and teach, that a well-studied plan which is but the simple readable expression of a definite architectural idea, will be found to be decorative, for are not such admirable plans as those of the *Parthenon*, *Amiens Cathedral*, *St. Peter's* (as Michael Angelo designed it), distinctly decorative?

In another direction, Mr. Cram failed to do justice to the methods of the *Ecole*. He admitted that its system puts a check upon over-exuberant originality, but he did not perceive that the same system lends a confidence in one's powers that will encourage experiments in architectural design along the lines most promising for the development of the art.

The graduates of the *Ecole* and of similar institutions throughout Europe have shown a praiseworthy readiness to make use of the architectural materials of the present age to create a style, characteristic of our time. If there is a style of the nineteenth century, it is the style evolved by the decorative use of iron and steel, and glass and clay products.

Since 1845-1850, the French, beginning with the *Halles Centrales*, have been elaborating an architectural style that is as much the outcome of its own period and of the attendant industrial and social conditions as are the French cathedrals of the thirteenth century. He hoped that the time was near at hand when trained men in this country would bring their contribution to the style that the trained architects of Continental Europe have been working out for nearly fifty years.

His last word on the question of *Ecole* training was the answer that always rose to his lips when the method of the school or the character of the work of its graduates was called into question. Their work spoke for itself.

A large number of the most successful architects of America had received instruction either at the *Ecole* or in the office of one of its most talented and lamented pupils. Whether their success had been achieved by the help of that training or in spite of it, he would leave his hearers to decide.

MR. H. L. WARREN said:—The interesting discussion we have had thus far, following upon Mr. Cram's entertaining paper, prompts me to make a few remarks, as it seems to me the two sides are not as far apart as at first blush they appear.

In the first place, let me say that while I sympathize—heartily sympathize—with what I believe is the underlying thought and drift of the paper, and while I welcome the considerations it has brought to our attention, yet it seems to me that the description of the methods and results of the training of the *Ecole des Beaux-Arts* is clearly caricature—deliberate caricature. I think Mr. Cram would undoubtedly admit this himself, but that it was a caricature and so intended seems to have been overlooked by those who have replied to him. The purpose of a caricature is to call attention to certain faults or peculiarities by exaggerating them, so as to bring them into strong light. This Mr. Cram has very cleverly done. The excellences of the *Ecole des Beaux-Arts* I think we all recognize. They are undoubted. These are, especially: the thorough training in the arrangement of the plan, in composition of plan and of mass, in the grouping and coördinating of the different parts of a building, in the careful study of the main masses of light and shade, and in proportion indeed Mr. Cram has clearly admitted this in his paper. All this the *Ecole* does as perhaps it is not done in any other school in the world. They insist, too, on the same fundamental principles of design that obtain in Gothic architecture as in all good architecture: that the main facts of the plan must express themselves on the exterior, that there must be an organic relation of interior and exterior, that, in short, the exterior must be truly expressive. But while insisting on these principles up to a certain point, they stop short of the detail. With entire want of logic these principles, which they so strenuously insist upon, with regard to the larger features, are thrown to the winds the moment they reach the detail. If it is well placed, if the shadows are well proportioned, that is all they ask. The detail, they say with a shrug, is a mere matter of taste—a matter of bad taste usually. That the same principles which are applicable to the larger masses must be equally so to the details seems to me self-evident. No architectural feature is beautiful in itself merely, but because it is fit, suited to its position. Every moulding, every capital, every piece of carving on any structural feature should emphasize and express the function of the member to which it is applied. Only when this is the case with regard to every smallest detail, as well as with the larger features, can a work of architecture have that vital organic quality which alone can give it the entire unity of expression we require in a work of art. It is mainly in the poor taste of their decorative detail that it seems to me the French school fails. In its effect on taste, it seems to me the influence of the school is positively pernicious, and I always regret it

when young students come under its influence before their taste is formed by the thorough study of what is best in the architecture of the past. This is, it seems to me especially to be regretted in the case of American students. We certainly do not want French taste, French ideas without regard to appropriateness or fitness, "crammed,"—as Mr. Walker has said—down our throats by the enthusiasts of the Beaux-Arts Society," and I am glad to learn from what Mr. Walker has said, that this society—in its original spirit, at any rate—seems likely to fall apart, as it were, by its own weight. I always felt sure that it would do so, because its dogmas were distinctly out of place here in America. But then, the Beaux-Arts Society is not the École des Beaux-Arts, and the faults of its adherents are not all to be ascribed to the Paris school, but largely to a misunderstanding and misapplication of much of the French teaching. With all the faults of modern French architecture it must be said that it is, perhaps, the only living style of architecture existing in the modern world. With all its faults, it still is thoroughly expressive of French civilization, of French life, and the faults are those of French life and civilization. But just in so far as our ideals, our life, our civilization, our race, differs from that of France, French art is for us utterly inappropriate, and its imitation mere mimicry, which can lead to no good result. It has no place here. The curious and somewhat debased phase of "Classic" architecture now current in modern France is, after all, roughly speaking, only a development from the original French copy of an Italian Renaissance original, itself an imitation of the Roman style, which was largely a half understood imitation of late Greek work,—a reflection of a reflection of a reflection. It seems to me better for students to go back to the sources and to study the forms with which they have to deal in their origins, where the relation between structure and design is most clearly appreciated.

As Mr. Cram has referred with approbation to the school at Harvard, perhaps it may be well that I should say a few words as to our aims and ideals. We endeavor so far as possible to found our teaching of planning and composition on the methods of the École des Beaux-Arts; and we recognize that the study of planning lies at the foundation of all architectural study. Every trained architect recognizes the paramount importance of the plan. It is the only drawing that shows him his whole building, the only drawing that enables him to realize the composition of his design from every point-of-view. But while trying, so far as we may, to borrow what is best in the French methods, our purpose is to form the taste of the students by careful study of the best work of Greece, of Rome, of the Renaissance, and also of the Middle Ages. But the beautiful Gothic architecture is too complicated, and difficult of management for beginners, for it to be possible, even were it desirable, to make much use of its forms in practice in design. It is more remote from us to-day than the architecture of Greece and Rome; it is, as Mr. Cram has said, unfortunately an anachronism. But we do give a thorough study to its forms, especially with a view to understanding the underlying principles—principles which underlie all good architecture, but are nowhere so completely manifested as they are in the best Gothic work.

Moreover, in a school of architecture, where the first essential is practice in design, it is necessary to acquire as soon as possible a working vocabulary of architectural forms, and this clearly can best be done by studying the few and simple, yet perfect, forms of the architecture of Greece, supplemented by the best Roman forms, and gradually enlarging the vocabulary by a careful study of the great works of the Renaissance, especially in Italy up to the death of Michael Angelo. In all cases we study what are recognized as the best works of these great times, and the taste of the student is formed upon these. As soon as familiarity with the general forms of the orders is acquired, they are further studied in their actual application in the great buildings of Greece and Rome rather than through the formulas of artists of the late Renaissance.

In selecting subjects for design we choose, as far as may be, problems from modern American conditions. But here, again, it is not possible at the outset to set before students—mere beginners—problems with which trained architects are wrestling not always with entire success. We must choose, rather, until a certain command has been attained, subjects more or less ideal in their nature, which will enable us to refer the student to definite precedent. When he is able with fair success to handle such themes, he may with advantage try his hand upon some of the problems for which less certain precedent is to be found. The value to the student of learning to handle monumental plans of some size seems to me undoubted, and its benefit will be felt when smaller problems are attacked. The training obtained in this way cannot be given, I think, by any other method. Some practice in picturesque planning should undoubtedly be given in order that the student may appreciate how far the methods of monumental work can here be applied, how far they have to be modified, and the requirements of good composition fulfilled by the use of somewhat different means, and here I may say that among our problems this year we intend to have a country church and a country house.

I shall be surprised if the essayist does not agree with me, that in some such way an architectural school should be conducted, and that sound architectural training must be founded upon a thorough knowledge of the orders and the simple details of Classic architecture. As I have pointed out, the École des Beaux-Arts in its instruction insists, up to a certain point, upon the same principles that Mr. Cram

has advocated. The trouble is that it does not carry them far enough.

Mr. WARE said that, although Mr. Cram's paper was self-contradictory in parts, the caricature was none the less amusing and well done. He believed that, if the extravagances were elided and the remaining portions run together, it would be found that the reader had conceded to the Beaux-Arts system pretty-much all of the good qualities its most earnest advocates claimed for it. It seemed to him, however, that before making such a sweeping assault on the systems of education in vogue at the several American Schools of Architecture, a closer inquiry into the systems actually in use should have been made. He was reminded of the similar assault made on the American schools by the Committee of Education of the American Institute of Architects which, a few years ago, censured without stint those in charge of such schools because of their insufficient and inefficient methods of giving instruction in the history of architecture. Having laid their charge, the committee subsequently made inquiry, with the result that in the succeeding year it had to acknowledge it was largely in the wrong. In like manner, Mr. Cram probably was not aware that, at Cornell, Professor Babcock had given serious attention to giving instruction in Gothic architecture. He was particularly gratified that Mr. Cram acknowledged that one of the virtues of the Beaux-Arts system was that it did teach a sense of proportion, for he remembered that, long ago, in the Atelier Vaudremer nothing was so much insisted on as the study of proportion, sobriety and the absolute practicability of the plan.

Mr. J. W. FOSDICK, a guest, who had somewhat misconceived the temper of the discussion, said a few words tending to harmonize what he conceived to be radically conflicting views.

Mr. BROWN furnished an account of a concrete instance where a young American architect, fresh from the Beaux-Arts ateliers, found himself quite disqualified to meet the positive requirements of his first client, who desired him to adopt the picturesque treatment shown in certain photographs of an old half-timbered English inn, and refused to be satisfied with a design where the parts were academically balanced and all features adjusted to their appropriate axes.

Mr. CRAM, in conclusion, said that although he had, in a spirit of caricature, used broad strokes and strong colors, yet the elements of his criticism were strongly rooted in his own mind as realities. He regretted that at this meeting he had to appear in the garb of a mere iconoclast, but there was not enough of the evening left for him to qualify his destructive criticisms by making those constructive recommendations he intended to make when he began to write his paper, and he felt all the more strongly the need of making such qualifications since he had heard the remarks of the other speakers. He entertained very strong convictions on the subject of architectural education, and trusted the Society would be willing, at a later date, to listen with as kindly courtesy to another paper in which he hoped to embody his recommendations. Before, however, he could venture to do this, he now felt the need of prosecuting closer inquiries into the methods followed in several of the architectural schools of which he had at present no personal knowledge.

BOOKS AND PAPERS.

THE publishers of the "*Bibliothèque des Arts Décoratifs*" have done a very useful thing in bringing together in a separate publication the scattered papers by Professor Jules Passepont that have appeared from time to time in the *Revue des Arts Décoratifs*.

As we translated and republished in this journal a few years ago the papers that deal with "dolphins," "bucrania" and "scales and imbrication," our readers must be familiar with the general character of the papers that are now brought together. In addition to the papers we have already published, this new volume of the "*Bibliothèque des Arts Décoratifs*" contains further papers on "Garlands," the "Greek Fret," and the "Greek Wave Ornament," each paper being as profusely and intelligently illustrated as were the earlier papers which we translated. As the book contains more than six hundred cuts, and as these cuts exhibit the graces, complications and manifold varieties of the several decorative forms to which each paper is devoted, it is useful and very well worth the price even to those who do not read French with great facility.

BOOKS RECEIVED.

"John Wellborn Root": A Study of his Life and Work. By Harriet Monroe. With etchings and drawings by Charles F. Mielatz and fac-similes of designs by Mr. Root. Boston and New York: Houghton, Mifflin & Co. 1896. Large 8vo. Price, \$6.

"Étude des Ornaments," par Jules Passepont, professeur à l'École régionale des Arts et à l'École pratique d'Industrie de Saint-Étienne.—Un volume in-8° colombier, illustré de 651 gravures dans le texte et une planche hors texte.—Prix, broché, 10 francs. Paris, librairie Rouam, G. d'Hoslingue, direct., 14, rue du Helder.

"The Architecture of the Renaissance in Italy": A General View for the Use of Students and others. By William J. Anderson, Architect, A. R. I. B. A.; Director of Architecture, and Lecturer at the Glasgow School of Art. With fifty-four colotype and other plates, and seventy-four smaller illustrations in the text. London: B. T. Batsford. 1896. 8vo. Price, 12s., 6d., plus charges.

"Modern Carpentry and Building." By W. A. Sylvester. Boston: Allen Sylvester. 1896. Price, \$2.

"Der gute Geschmack": Ästhetische Essays. von Lothar Abel, Architekt, Ritter des Kaiserl. Oesterr. Franz Josef-Ordens; Besitzer der Kaiserl. Oesterr. Medaille für Kunst und Wissenschaft, etc. Mit 129 Abbildungen. Vienna: A. Hartleben's Verlag. 1895.



T-SQUARE CLUB.

AT a special meeting of the Executive Committee of the T-Square Club, held at the office of the President, Mr. David Knickerbacker Boyd, the following resolution was adopted:

Whereas, The public-spirited citizens of the State of California have determined to erect a series of new buildings for the University of California, upon an unexcelled site, overlooking the Golden Gate and the City of San Francisco, and

Whereas, The Regents of the aforesaid University are now receiving suggestions from various members of the architectural profession, and from many architectural societies, in regard to the best method of framing the conditions for competition to secure plans for their proposed buildings,

Be it Resolved, That the Executive Committee of the T-Square Club of Philadelphia, the foremost architectural organization of Pennsylvania, recommend,

First, That the competition be restricted to architects of recognized ability of the United States, as, by so doing, we believe that more successful results will be obtained, inasmuch as they are familiar with the exigencies of American civilization, education, and climate.

Second, That a small committee of the representative architects be invited to confer with the Regents of the University of California, visit the proposed site, and prepare the programme for the competition.

Third, That this same Committee of Architects be empowered to invite a certain number of additional members of the profession to enter with them into a paid competition.

And finally, We believe that a restricted, paid competition will elicit more carefully studied designs, and a stronger representation of leading architects than any form of open competition.

CHARLES E. OELSCHLAGER, Secretary.

PITTSBURGH ARCHITECTS' CLUB.

AN Architects' Club was organized this month at a meeting held in the Carnegie Library Building under the auspices of the Academy of Science and Art. The object of the organization is to promote better architectural work, and some of the most prominent architects in the city are interested in the movement. Meetings are to be held every two weeks, and each month there will be competitive drawings on a subject submitted by the members of the Club to a board of judges. Librarian Anderson is much interested in the Club, and will give it every assistance in his power. The new body will be known as the Pittsburgh Architects' Club.

NATIONAL SOCIETY OF MURAL PAINTERS.

THE annual election of the National Society of Mural Painters was held at their last meeting, and the following officers elected for the year 1896-1897:

Honorable President, John Lafarge; First Vice-President, Frederic Crowninshield; Second Vice-President, Geo. W. Maynard; Treasurer, D. M. Armstrong; Corresponding Secretary, Chas. M. Shean; Recording Secretary, Chas. R. Lamb.

The election took place at the regular meeting of the Society, held in the studio of the First Vice-President, Mr. Frederic Crowninshield, 42 West 18th Street, New York.

At this meeting was exhibited the entire series of drawings submitted in the limited competition for the important memorial stained-glass windows to be erected in the new City-hall, Paterson, N. J. This competition has but recently been decided by an expert jury who acted upon the request of the architects, Messrs. Carrère & Hastings. Each competitor was paid for his design, the winner, Mr. Schladermundt, being given the execution of the work.

MICHIGAN'S BOARD OF HEALTH A MONEY-SAVER.—No other branch of State business seems to be making the clean cash that the State Board of Health is realizing. According to a report just issued by the Secretary, the Board saved to the people of Michigan in the last five years \$5,097,800. It did this by preventing 112,843 cases of sickness, and 5,261 deaths from diphtheria, scarlet fever, typhoid fever and measles. If the Secretary will now ascertain the names of the people the Board saved from illness and the grave, and collect the five millions from them for valuable services rendered, he will be able to balance his books and give the State a lift with some ready money.—Detroit Free Press.



[Contributors of drawings are requested to send also plans and a full and adequate description of the buildings, including a statement of cost.]

HOUSE OF MRS. BARBARA ARMOUR, 117 LAKE SHORE DRIVE, CHICAGO, ILL. MR. FRANCIS M. WHITEHOUSE, ARCHITECT, CHICAGO, ILL.

[Gelatine Print, issued with the International and Imperial Editions only.]

SUMMER RESIDENCE OF E. C. BENEDICT, ESQ., INDIAN HARBOR, GREENWICH, CONN. MESSRS. CARRÈRE & HASTINGS, ARCHITECTS, NEW YORK, N. Y.

[Gelatine print, issued with the International and Imperial Editions only.]

THIS view is the first of a series which will exhibit in detail the very interesting way in which a country place has been created on the somewhat barren site formerly occupied by Indian Harbor Hotel, once in the occupancy of the Americus Club, of Tammany fame. The buildings are of brick covered with a stucco of marble-dust and cement.

SOUTHWEST VIEW OF THE SAME HOUSE, SHOWING SERVICE BUILDING ON THE LEFT.

PLAN OF ESTATE OF E. C. BENEDICT, ESQ., INDIAN HARBOR, GREENWICH, CONN. MESSRS. CARRÈRE & HASTINGS, ARCHITECTS; MESSRS. OLMSTED, OLMSTED & ELIOT, LANDSCAPE ARCHITECTS.

THE quite accidental publication of this drawing in the same issue with the discussion on the utility of certain Beaux-Arts practices, may be taken as showing that even in America elaborately rendered plans are made, and have a usefulness for both client and architect. Apropos of this very point, Mr. Hastings speaks in *Garden and Forest* in the following words:

"A good plan of house and grounds, as seen on paper, aside from the questions of arrangement, has proportion, form, scale, color, values and character. The drawing of such a plan will awaken as much enthusiasm in the educated architect as does the picture in the painter or the statue in the sculptor. This plan should be thoroughly studied and practically finished before the architect has more than a vague idea of the design of the exterior of the building. The plan involves and determines the entire composition; the silhouette or outline of the whole is really projected on the plane of this drawing. If the relations to each other of roads, paths, buildings and other features are well studied and look well on paper, they are almost sure to prove successful when seen in perspective after the work is completed. Such a comprehensive plan does away with the necessity of perspective drawing as a help to architectural as well as landscape study, and leaves it no place except to explain a building to a layman. The many elevations of the several buildings on Mr. Benedict's place have been evolved from the general scheme, and are the natural expression of the whole plan. No one elevation of the houses would give any idea of the entire scheme, as the greatest interest centres in the general composition of the grounds and relations of the buildings to one another, or what the French call the "*plan général*." They have a very characteristic name for this portion of the composition, which is the "*sauce of the architecture*." It is this portion of the design which unites or marries the building with its natural surroundings. Most of the same principles of composition obtain in the planning of this portion of the work as in the planning of all the buildings themselves. The silhouette must make first of all an agreeable ensemble with the silhouette of the buildings."

A RELIC OF THE TUILERIES, PARIS, FRANCE.

CHURCH OF ST. RONAN, LOCROAN, FRANCE.

THIS fifteenth-century church in a little far western town in Brittany is the objective point of one of the great pilgrimages that annually take place in different parts of France. It is a matter of good fortune that the modern lantern that surmounts the great tower is nearly obscured from view.

[The following named illustrations may be found by reference to our advertising pages.]

ACCESSORIES OF LANDSCAPE ARCHITECTURE, NO. XXXIX: THE WELL OF ST. PATRICK, ORVIETO, ITALY. ANTONIO DE SANGALLO, ARCHITECT.

ACCESSORIES OF LANDSCAPE ARCHITECTURE, NO. XL: BASIN OF THE CASCADE IN THE PARK AT FONTAINEBLEAU, FRANCE.

REDOUTE BUILDING, BUDA-PESTH, HUNGARY. — NATIONAL BANK.
ANTWERP, BELGIUM.

[Additional Illustrations in the International Edition.]

SOUTHEAST VIEW OF HOUSE OF E. C. BENEDICT, ESQ., INDIAN
HARBOR, GREENWICH, CONN. MESSRS. CARRÈRE & HASTINGS,
ARCHITECTS, NEW YORK, N. Y.

(Gelatine Print.)

WEST PORCH OF SAME HOUSE.

(Gelatine Print.)

OFFICES OF THE ST. GILES BOARD OF WORKS, HOLBORN, LONDON,
ENG. MR. W. RUSHWORTH, ARCHITECT.

BALL-ROOM DOOR: NORFOLK HOUSE, ST. JAMES SQUARE, LON-
DON, ENG.

The architect of Norfolk House itself, which was begun in 1742,
was Matthew Brettingham.



[The editors cannot pay attention to demands of correspondents who forget to give their names and addresses as guaranty of good faith; nor do they hold themselves responsible for opinions expressed by their correspondents.]

A CORRECTION: "STATICS OF STRUCTURES."

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—I beg to offer a few remarks on "Statics of Structures," commencing in your issue of December 5th. Such articles must necessarily be considered as self-helps for students, and, therefore, should be written in as simple a form as possible; and to this end letters, so far as possible, should always represent the same units.

In Section 10, in the equation $pl = P$ lbs., and in Section 25, $M = \frac{Pl}{8}$, P has not the same value in each, but the P in the second case is, obviously, 12 times greater than the P in the first formula, because p is in pounds per foot and l is length in feet in the first case, which is correct; but p is in pounds per foot and l is length in inches in the second case, which is an error. The same error runs through all the formulas, from Section 16 to Section 25, inclusive.

The weight p should be in pounds per inch when the length of beam is expressed in inches; the weight p should be in pounds per foot when the length of beam is expressed in feet; p in pounds per yard when length of beam is in yards; that is, the same units must be employed in each case, and, to avoid confusion in the student's mind, these units, when once fixed, should remain the same throughout the work. At least, this is the way these things appear to a student.

Respectfully, N. WARDROP.

NEW YORK, December 18, 1896.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—In reply to the foregoing letter of Mr. Wardrop's, I wish to say that his criticism with regard to using one symbol for two denominations is justified by my last remark in Section 18, to the effect that "in all these equations P is the load in pounds per foot, while l is the span in inches, so that M is expressed in inch-pounds."

This statement is an error on my part; it ought to be omitted and l allowed to signify span in feet down to Equation 6. The l occurring in this equation being the length of the lever arm, and entirely independent of the l in $pl = P$, can then be taken in feet or in inches, giving M in foot or inch pounds, whichever may be better suited to the case under consideration.

Both will give the same value, although a moment in inch-pounds is evidently (numerically) twelve times as great as the same moment in foot-pounds. I am greatly indebted to Mr. Wardrop for calling attention to the error.

Yours respectfully, O. F. SEMSCH.



TYPHOID FEVER AND RIVER WATER.—Munich and Vienna, supplied with mountain water, average only 7 deaths from typhoid to 100,000 of the population. In New York the figure is 20, while in Pittsburgh and Louisville, which use river water, it is as high as 77.—N. Y. Evening Post.

A PORTRAIT OF GILBERT STUART FOR THE NATIONAL GALLERY.—The National Gallery has purchased the portrait, by himself, of Gilbert Stuart, the painter of portraits of Washington and other notable Americans of the time of the Revolution.

THE ARTIST ZIEM'S QUEER HOME.—Amusing stories are told of Ziem, who lived in a house at the top of the Rue Lepic on Montmartre. His house was his castle in the literal sense of the word. It was difficult to obtain admission, for the painter had an upper window out of which he always looked when the bell rang, and interrogated his would-be visitors. He had a basket which he let down by a cord to receive packages or messages, and he slept in a wonderful swinging-bed. His house was a veritable museum, illuminated Persian manuscripts being part of his collection. Some of these were worth thousands of francs, but it was impossible to persuade him to sell any of them. In place of a newel-post on his stairways stood the prow of a gilded gondola, and, closely immured in his studio, he painted pictures of Venice, and bade defiance to all who came to disturb his peace.—"Souvenirs of a Veteran Collector," December Century.

THE PASSING OF THE INTRAMURAL BURYING-PLACE.—The intramural place of burial has only a limited term: it is dug up after a while, the duration of its immunity depending upon circumstances. When the spaces occupied by them are much wanted, their old tenants are extruded with little ceremony. One after another they have disappeared from the city limits, the living usurping the roods which the dead strove vainly to hold in mortmain. The passing of the old St. John's Cemetery in Hudson Street is only one in a procession of such, following each other since the city was founded. No interments have taken place in it for half a century, and there are few left to repine that the space is now to be handed over to the uses of the living. A pretty park will soon spread there its summer leafing and blossoming, and the gloom of the place of graves will give place to the brightness of a garden of pleasure. It will ornament that part of the city in perpetuity, and there is no reason to apprehend that the ghosts of its old tenants will haunt it for any great length of time.—New York Tribune.

LONGEVITY AS AFFECTED BY POSITION OF SLEEPING PLACE.—A report has been published of the investigations made by M. Korosi, a Hungarian hygienist, on the effect of living in cellars and on ground and upper floors upon the duration of life. Summarizing this report, the National Popular Review states that Korosi found that the dwellers in cellars averaged a life of about thirty-nine years and eleven months; those on the ground floor forty-three years and three months; those on the first and second floors forty-four years and two months; while those on the third and fourth floors lived to only forty-two years. All things being otherwise equal, it is considered that these observations may be accepted as showing the different effects upon longevity by the different planes of residence. Thus, the air of cellars or basements is never healthy, nor can such localities be suitably ventilated without considerable cost, the occupants being exposed to ground-moisture contaminations, to the impurities of body exhalations and to foulness of the heavier ground air from the street and yard that of necessity pours down into such spaces. Those living on the first and second floors seem to enjoy the longest lease of life, as might be expected, in view of the greater freedom of such floors from foul gases, microbes and germs, animal emanations and from street dust.

L'UNION CENTRALE DES ARTS DÉCORATIFS.—In the history of museums, whenever it is written, there will be no chapter more strange than that relating to L'Union Centrale des Arts Décoratifs. France is rich in museums, and in England we have taken many a lesson from them. But it was supposed the South Kensington Museum was inspired by an original idea, and there was a resolve to create one of a similar kind in Paris. In that way the Union was formed. The members were to contribute money or examples of art, or in some other way endeavor to realize the profit. It was not long before a useful collection of objects was formed. A room to contain them was found in the Palais de l'Industrie, and country folks imagined it was a sort of supplement to the Salon exhibitions. As the prospects were encouraging permission was obtained to have a lottery in order to raise funds. It was a marvellous success. The prizes were magnificent, but after paying them it was supposed that about half a million sterling remained. Having so much money, it was resolved to obtain a museum. Application was made for the ruined Cour des Comptes, which the Government were willing to grant to the Union. The position was convenient for amateurs, but it was far removed from the places where designers and craftsmen lived. The managers of the Union would not listen to remonstrances; they had resolved on the Cour des Comptes, and there the collections must go, or the Union would be dissolved. The trade representatives were forced to yield. Then began a series of scenes of coquetry without parallel. All the arrangements for transferring the property were concluded and the deeds prepared, but the authorities of the Union unexpectedly became shy, and would not sign. The more the Government officials pleaded to have the affair settled, the less willing was the Union to become a contracting party. The aim was to compel the Government to pay all expenses for converting the ruins into a museum, but the diplomacy was so unwisely conducted that the Government abandoned the affair. The prestige of the Union vanished. In vain an annual prize was offered for an example of decoration; practical designers left the competition to children. The exhibition was so rarely visited, it is doubtful whether enough francs were received to pay the attendant at the turnstiles. The impending demolition of the Palais de l'Industrie has made it necessary for the Union to seek other quarters. The collections are to be placed in the Pavillon Marsan, a corner of the Louvre which is the most remote from the part containing the galleries of art. It is needless to say they will not be visited, and their entombment seems to be the inevitable end of a project that was badly managed during the last few years.—The Architect.



THE HELIOTYPE PRINTING CO., BOSTON

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FRANCIS M. WHITEHOUSE, Architect.

FRONT PORCH: HOUSE OF E. C. BENEDICT, ESQ., INDIAN HARBOR, GREENWICH, CONN.

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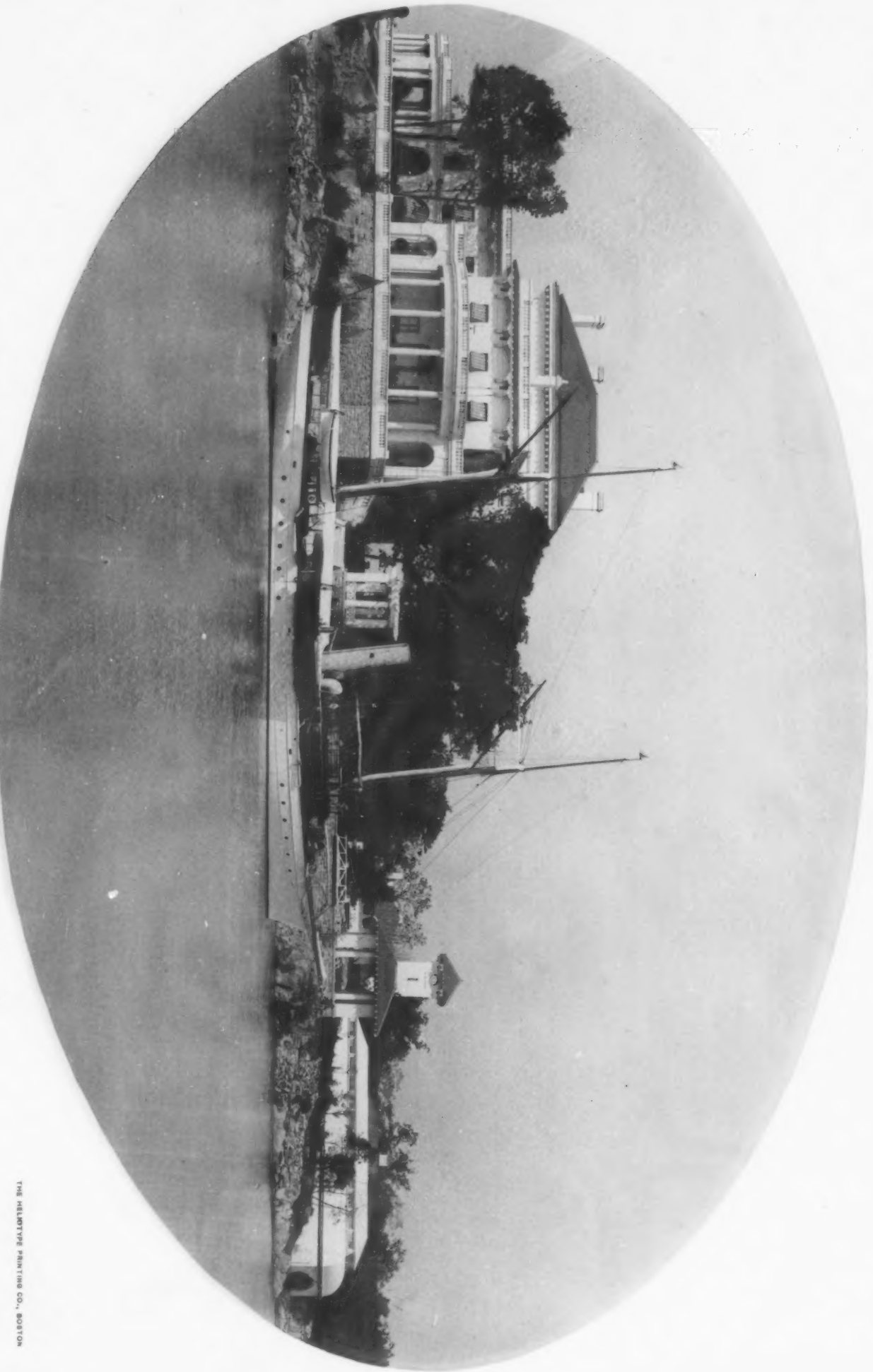
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SOUTHEAST VIEW OF THE HOUSE OF E. C. BENEDICT,

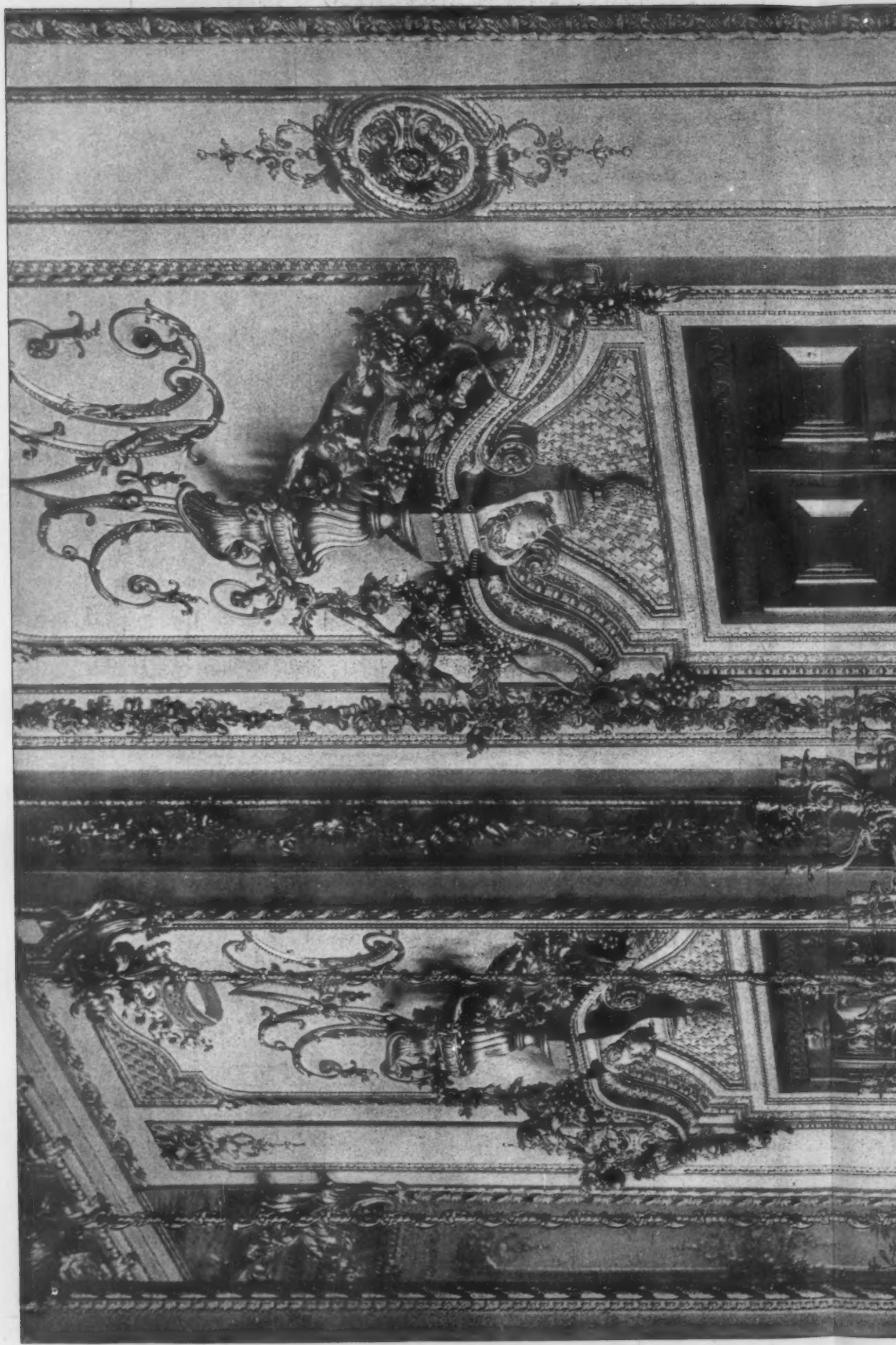
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188. PHOTO SPRAGUE & CO. 445 EAST HAWKINS STREET, PETTER LANE, E.C.

BALL ROOM DOOR: NORFOLK HOUSE, ST. JAMES' SQUARE.
THE RESIDENCE OF HIS GRACE THE DUKE OF NORFOLK, K.G.

PHOTOGRAPHED BY BEDFORD LEMERE & CO.

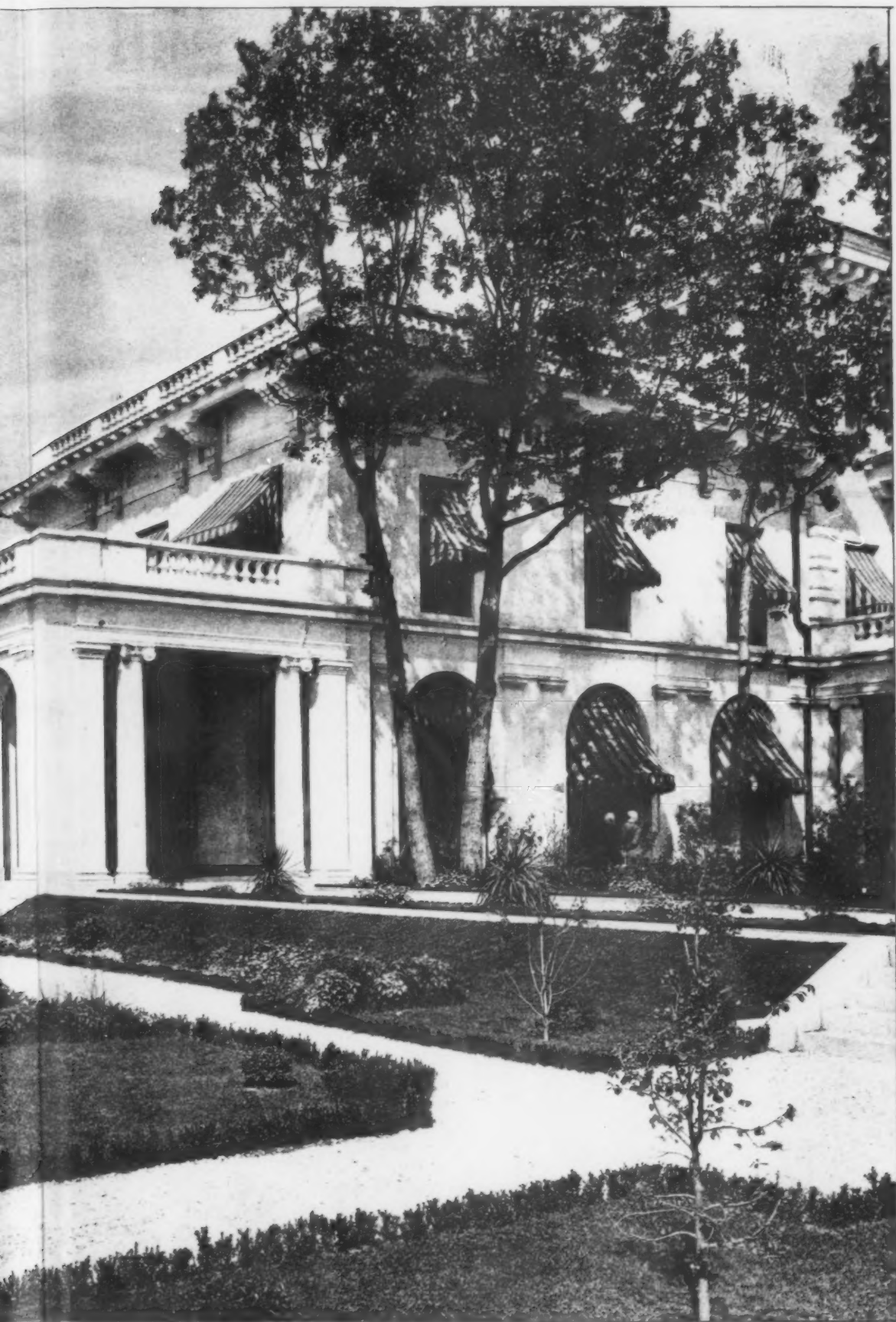
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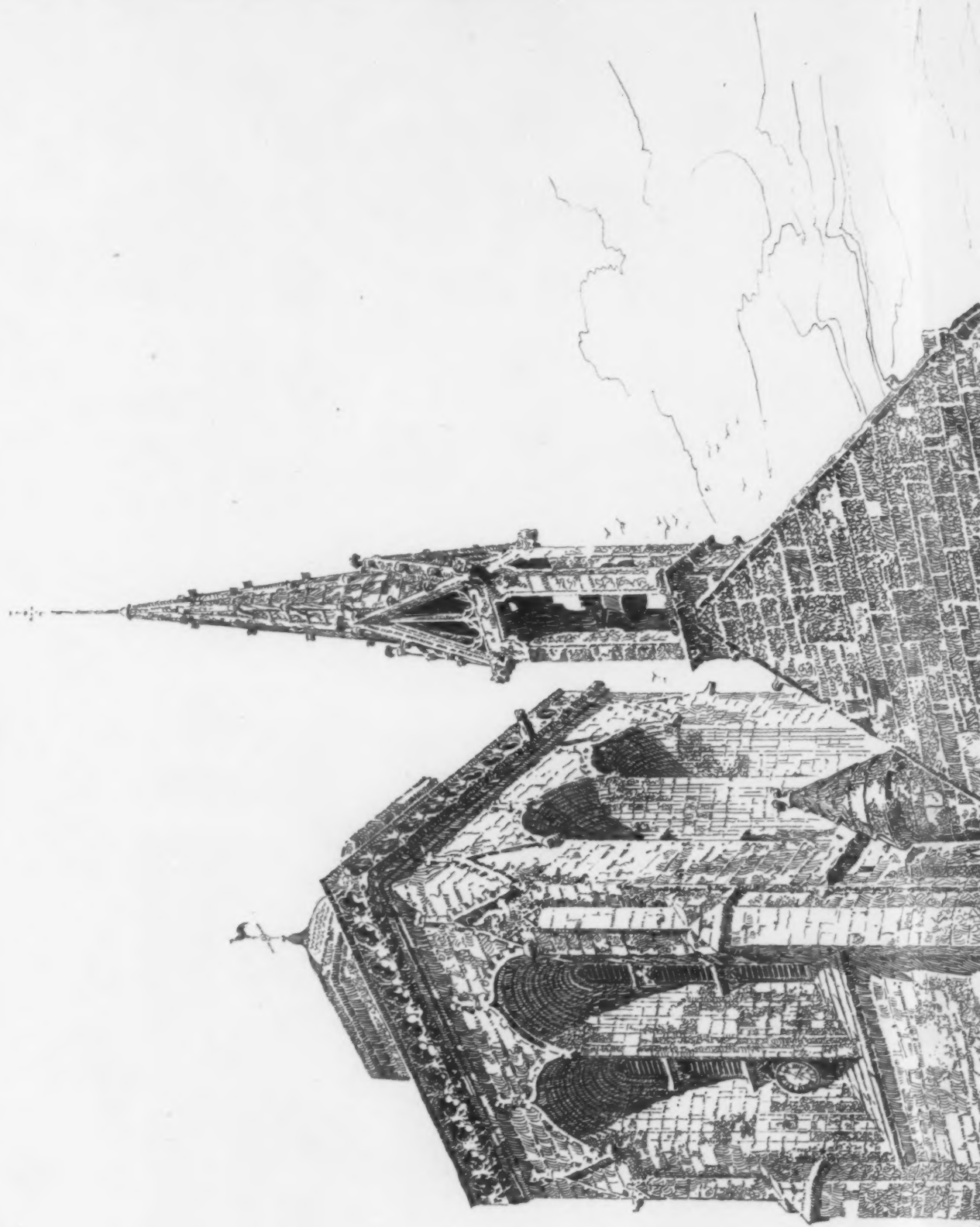
SOUTHWEST VIEW: HOUSE OF E. C. BENEDICT, ESQ.

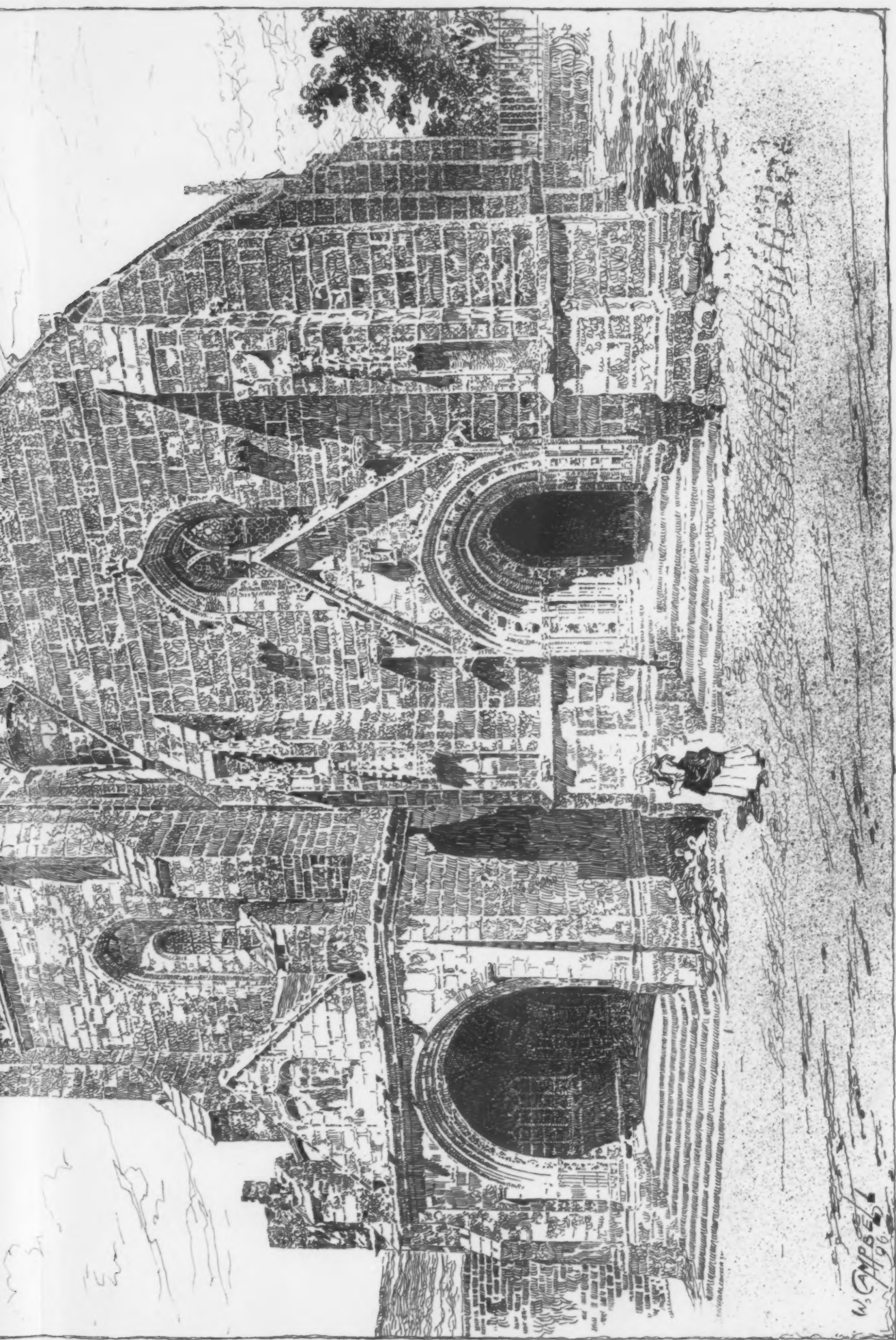
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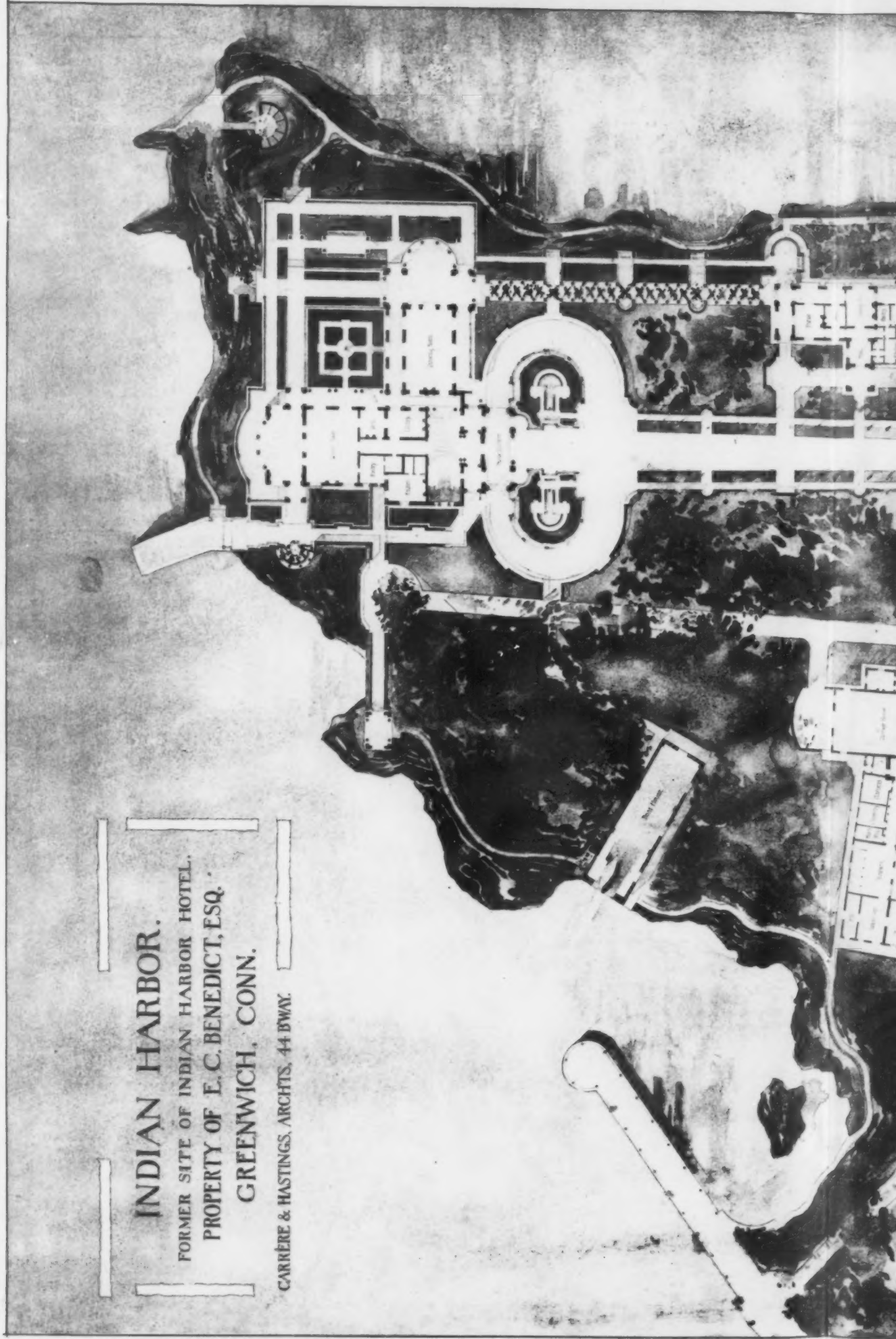
CHVRCH OF LOCRONAN, BRITTANY.

INDIAN HARBOR.

FORMER SITE OF INDIAN HARBOR HOTEL.
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W. RUSHWORTH, Architect.

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THE AMERICAN ARCHITECT AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 172.

SATURDAY, OCTOBER 3, 1896.

VOLUME LIV.
No. 1064.

THE KELLY WASH-BASIN.

THE Kelly Safety Sanitary Syphon Wash-basin cannot overflow, cannot become clogged or stopped up (in ordinary use) in basin or trap. Sand, dirt, etc., thrown in as tests with the plug in the basin, are syphoned out completely. There is not one-half inch of fouling space in the basin. In this basin the overflow is in the bottom above the plug, and is therefore trapped while there is any water in the bowl. To empty the water in the bowl it is not necessary to keep the plug out until all the water discharges. By lifting the plug and letting it drop back to its place, the water rushes out through the overflow, which enters the waste-pipe below the plug. Should the plug be held out until all the water is discharged, a great portion of this water finds its way out by the overflow. The contents of the basin cannot be discharged without flushing the overflow. Should the plug be left in and the cocks left open, instead of overflowing on the floor, a periodical flush is secured. The overflow is as large as the waste-pipe. On account of the syphonic action, this bowl will empty one-third quicker than any old-style bowl.

In private residences, during the absence of the family, the waste-pipe trap is not depended upon to bar out sewer-gas, for the plug can be placed in the basin, and the basin filled to any point desired, and when the water in the trap evaporates (which occurs in less than ten days) you have a large seal of water in the basin, which will last longer than any family is apt to be gone from home. The syphonic action prevents the waste-pipe getting stopped up, as it cleans out matter—such as hair, lint and matches, which are the general causes of stopping up of ordinary basins.

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This is the only basin on the market in which the dirt is washed out of the basin as fast as it is deposited. By allowing a small stream to run continuously, a clean basin and body of water is insured.

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The high standing we have attained among the leading architects of this country, not only in the character of work with which this booklet deals, but also in all other classes of ornamental iron, warrants, we believe, your consideration, if this subject appeals to you at all, and if you desire the best that a thorough knowledge of this business and a constant striving toward higher standards can give you.

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THE WORTHINGTON AUTOMATIC FEED PUMP AND RECEIVER.

(PATENTS PENDING.)

In factories, hotels and apartment-houses, or in any building where steam is used for heating purposes, it is always desirable and generally necessary to provide an apparatus

for draining the radiators, coils and steam-pipes, and also to feed automatically to the boilers the water of condensation while it is in the hottest condition.

The absence of a suitable arrangement of this kind is often the cause of the disagreeable snapping and hammering sound in radiators and steam-pipes, which, particularly in hotels and apartment-houses, it is important to avoid. In manufacturing establishments, the addition of such an apparatus is not only a source of economy in coal consumption, but it increases the efficiency of the heating plant.

The Worthington Automatic Feed Pump and Receiver was designed to meet the several requirements of this service with the simplest and least complicated form of construction. This machine combines simplicity of construction with such improvements as especially fit it to the best modern practice in steam-heating and circulation.

The space it occupies is small, and it is sufficiently low to permit the complete drainage of even the lowest line of pipe in a steam-heating system, the bottom of the tank being on a level with the floor. This gives the Worthington apparatus a great advantage over other devices for draining steam-pipes.

The operation of the Worthington Automatic Feed Pump and Receiver may be briefly described as follows: The supply of steam which operates the pump is controlled by a valve and float in the receiver. As water of condensation from the coils is returned and falls into the receiver the float rises, and, acting upon the valve, causes it to admit steam to the pump. The latter at once feeds this hot water of condensation to the boiler without allowing it to cool. The fall of the water-level in the receiver lowers the float and lessens the speed of the pump. So at all times the action of the pump is to automatically supply to the boiler whatever water enters the receiver.

The receiver rests on a solid base or bed-plate, which also supports the pump. The connections and fittings furnished with the machine consist of suction and steam-pipes from pump to receiver, and a gauge-glass. The latter, however, is not a necessary attachment to the receiver, as it is impossible for the water-level to fall below the level to which the governing appliance adjusts it. The pump is the Worthington Regular Pattern. The Low Steam Pressure Pump can be used in places where it is necessary to carry steam at low pressure, the extra expense of the change being inconsiderable.

HERNY R. WORTHINGTON,
NEW YORK, N. Y.

FIRE NOTICE!

THE offices of the Colliery Engineer Company, proprietors of *The Colliery Engineer and Metal Miner*, *Home Study*, and the International Correspondence Schools, in the Coal Exchange Building, Scranton, Pa., were partially destroyed by fire on Sunday morning, August 30, 1896.

Fortunately, our printing plant was in another building, and we had reserves of all instruction and Question Papers, Drawing-plates and other supplies and stationery used in the schools in still another building, so that our business will not be seriously interfered with.

The Colliery Engineer and Metal Miner and *Home Study* will be out within a few days of the usual time, and we are already (September 2, 1896) conducting the instruction in our schools as usual.

We have secured quarters on the three upper floors of the new Mears Building, corner of Washington Avenue and Spruce Street, Scranton, and are now prepared to enter new subscriptions to our publications and also to enroll and commence promptly the instruction of new students in our Schools, as before the fire.

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necessarily stringent regulations of the Post-office Department, and in locations where the additional collections are possible with the carriers available, the system can be offered only subject to official approval. It may be said to have revolutionized the collection service, as it is in general use in nearly one thousand buildings in more than one hundred cities of the United States, and in the City of New York alone in about one hundred buildings. The elevator made high buildings possible—the Cutler Patent Mailing System has enabled the Post-office Department to collect their mail. It is made under the Cutler series of patents exclusively by

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LOCALITY OF AUTHORSHIP OF DESIGNS
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The assertion that the *American Architect* is a paper whose characteristics are *national* and not merely local is supported by the following table, which exhibits the manner in which several journals have treated domestic architecture. In this comparison the IMPERIAL edition of the *American Architect* is considered, since the additional plates of the INTERNATIONAL edition are, in the main, illustrations of foreign work.

PAPER.	Number of subjects contributed.	Number of contributors.	Towns in which contributors were established.	States in which contributors were established.	Architects practising in the State of publication furnished.				
					Subjects.	Per cent of total number of subjects.	Different architects contributing.	Per cent of total number contributing architects.	Towns.
No. I. . . .	214	109	28	16	161	.752	75	.688	7
No. II. . . .	137	78	21	15	46	.335	24	.307	2
No. III. . . .	118	56	16	11	70	.593	22	.392	1
Am. Architect.	267	152	47	24	73	.273	39	.256	3

From this table it appears that Massachusetts architects—.256 per cent of the total number of contributors—provided only .273 per cent of the total number of designs published, percentages which, in view of the fact that Massachusetts is one of the most populous States in the Union, prove that they have not been accorded an unreasonable amount of our limited space.

Cathedral of St. John the Divine.



New York, N. Y.



WE offer the illustrations of the competitive designs for the great Protestant Episcopal Cathedral now building on Bloomingdale Heights, New York, submitted by the following Architects:

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AMERICAN ARCHITECT AND BUILDING NEWS COMPANY,

211 TREMONT STREET, BOSTON, MASS., U. S. A.

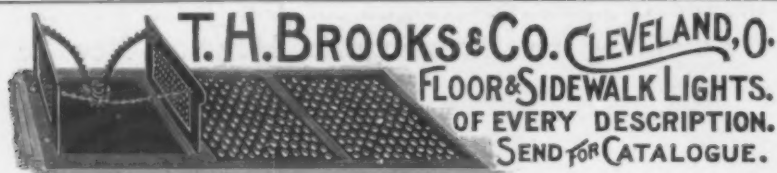
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For Sidewalks it gives the best color, and the most enduring wearing surface. Most of the prominent Railroad Bridges and the large Office Buildings of the country stand upon a foundation of concrete made of ALSEN'S CEMENT.

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I value the "American Architect" and prefer to carry it.
J. G. HASKELL, Architect.

Pasadena, N. Y., Dec. 18, 1895.
I find that there is no economy in subscribing to the cheaper edition, and that the highest-priced one [the International] is really the cheapest.
W. M. MEEKER.

Columbia, S. C., Dec. 15, 1893.
I find it too valuable and have derived too many benefits from it to part company.
FRANK NIERNSEE, Architect.

Cleveland, O., Dec. 7, 1893.
We shall do all in our power to assist in the continuance of the publication of the American Architect.
LEHMAN & SCHMITT, Architects.

Masonry in Modern Work.

A "PROLEGOMENOS" ON THE FUNCTION OF MASONRY
IN MODERN ARCHITECTURAL STRUCTURES.

By R. GUASTAVINO, Architect.

Price, paper cover - - - - - 30 Cents.

For Sale by the AMERICAN ARCHITECT.

ILLUSTRATIONS OF THE DECORATIVE
TREATMENT OF SOME OF THE GARDENS
MENTIONED IN THE ARTICLE

"THE GARDEN IN RELATION TO THE HOUSE,"

PUBLISHED IN ISSUE OF FEBRUARY 29, 1896, CAN BE FOUND IN

"MINOR FOUNTAINS."

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THE AMERICAN ARCHITECT

AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 173.

SATURDAY, NOVEMBER 7, 1896.

VOLUME LIV.
No. 1063.

AN INTERESTING STUDY IN THE DISINTEGRATION OF BRICKS.

We publish below three illustrations showing climatic effects on brick walls that were built of very poor and porous bricks, such as are found among the common bricks made in many parts of the country, and which become quickly saturated with water during storms which, freezing and thawing with the changes of temperature, crack and chip the surface of the brick to an extent hardly appreciated by those familiar only with our more dense and compact bricks.

That it is possible to preserve the surface of such a wall would seem to be demonstrated by the results shown in the accompanying illustrations.

Figure 1 shows the cracked and chipped condition of a wall at the northeast corner of a house on Howe Street, Vancouver, built four years ago.

Figure 2 shows the condition of a wall at the northeast corner of a house on Granville Street, Vancouver, which had been covered with tar eighteen months.

Figure 3 shows the condition of a wall at the northeast corner of the Metropolitan

Herewith we have presented a few general directions to guide the fitter, and have endeavored to make them so explicit that any good mechanic familiar with piping can put the system in without fear of failure.

This data has been verified by our own experience in planning hundreds of plants each

if properly erected, will give satisfactory results. His choice should depend upon the special conditions and requirements governing the plant under consideration. The systems of piping in common use and generally considered to be good practice, are the

two-pipe system with wet returns; the two-pipe system with dry returns; the one-pipe system, all mains, branches and risers being relieved into a return main below the water-line; and the continuous or one-pipe circuit system, all piping being above the water-line.

We have illustrated the two-pipe system with wet returns, and the one-pipe circuit system. Either one of these systems, with perhaps slight modification, can be adapted to almost any low-pressure steam-heating problem.

RADIATION.

To determine the amount of radiating-surface necessary for any given heating-apparatus and to proportion it properly, requires the best judgment of the engineer. A number of rules for estimating the amount of radiation are given by different authorities, dependent on the glass and wall exposure and cubic contents. As it is not always possible to have



Fig. 1.

year in all kinds of buildings, and the experience of the leading heating engineers of this country and Canada.

Should any party desire more detailed information, we will take pleasure in answering



Fig. 2.



Fig. 3.

Club Building at Vancouver, which was covered four years ago with Cabot's Brick Preservative. — *The Brickbuilder*.

HINTS TO FITTERS.

To insure the successful working of a steam or hot-water heating plant, it is necessary to properly plan and erect the apparatus.

their inquiries to the best of our ability and when our heaters are used, if desired, we furnish estimates, and full and clear working-drawings of the piping, without charge.

STEAM-HEATING.

In planning a low-pressure steam-heating apparatus, the steam-fitter can choose between several different systems, any of which,

this data at hand, a convenient factor for rough calculations is the cubic feet of space. Under ordinary conditions, one square foot of direct radiating-surface will heat approximately in:

Bath-room, living-room, with two or three exposures, and large amount of glass...	40 cu. ft.
Living-room, one or two exposures with large amount of glass.....	50 " "
Living-room, one exposure, ordinary amount of glass.....	60 " "

Sleeping-rooms.....	55 to 70 cu. ft.
Halls.....	50 " 70 "
School-rooms.....	60 " 90 "
Churches and auditoriums of large cubic contents and high ceilings..	65 " 100 "
Lofts, workshops and factories.....	75 " 150 "

If indirect radiators are used, allow not less than 50 per cent more surface than for direct, and for direct-indirect 25 per cent more.

In estimating the radiating surface make due allowance for exposure of building, material of construction, location, length and size of main, location and capacity of boiler, also loose construction of doors and windows.

BOILER.

Having ascertained the amount of radiation, select a boiler of ample capacity to carry the radiation and mains, allowing, if possible, a reserve of from 20 to 25 per cent; as a large boiler can be operated with less attention and greater economy of fuel.

In determining the size of boiler, be governed by the exposures and cubic contents and not always by the radiation, as this may have been figured too small. Also allow for distance radiators are located from boiler, size of flue, draught, kind of fuel to be used and probable management.

RADIATORS.

The most common form of direct-heating surface is the ornamental loop cast-iron radiator. These are made in a great variety of styles and designs, and in shapes to suit almost every requirement. If a radiator is selected that is short of prime surface as rated by the manufacturer, make due allowance.

Direct radiators should be tapped as follows:

TWO-PIPE WORK.

Less than 30 square feet.....	$\frac{3}{4}$ x $\frac{3}{4}$ inch.
From 30 to 50 ".....	1 x 1 "
" 50 to 100 ".....	1½ x 1½ "
" 100 to 160 ".....	2 x 2 "

ONE-PIPE WORK.

Less than 25 square feet.....	1 inch.
From 25 to 50 ".....	1½ "
" 50 to 90 ".....	2 "
" 90 to 160 ".....	2½ "

INDIRECT RADIATORS.

Less than 30 square feet.....	1 x $\frac{3}{4}$ inch.
From 30 to 50 ".....	1½ x 1 "
" 50 to 100 ".....	1½ x 1½ "
" 100 to 160 ".....	2 x 1½ "

SUGGESTIONS IN PIPING.

In a low-pressure gravity return steam-heating apparatus, the steam and water-of-condensation in the mains and radiators should both flow, so far as is practicable, in the same direction; there should be a uniform, continuous and noiseless delivery of steam throughout the mains to each and every radiator or coil; the water-of-condensation should be returned to the boiler steadily and noiselessly by gravity, and all air should be expelled freely from the system. The arrangement and proper erection of the mains, branches and risers to accomplish this at any and all pressures that come within the scope of a low-pressure apparatus, is one of the most important problems of the heating engineer, and upon this depends largely the successful working of the apparatus.

The boiler should be located in the basement at lowest level possible, near the centre of the system and convenient to chimney. Chimney to be of ample height and area to insure a good draught. A square or round chimney will give the best results, and it should have an area of not less than 25 to 30 square inches for every square foot of grate-surface; never connect a boiler to a chimney having less than 8" x 8" inside dimensions.

Start with main steam-pipe from top of boiler, rising vertically as high as may be con-

venient, so that its level may be as far above the water-line as possible. This distance from water-line to level of main should not be less than 24 inches.

If a valve is required upon the main at the boiler, it should be placed at the highest point, so that condensation may not find lodgement on either of its sides.

From the highest point, directly over boiler, pitch the main steam-pipe down as it recedes from boiler about one inch in ten feet, and in two-pipe work the return main should be pitched toward the boiler at about the same incline.

The fitter should ever have in mind the thorough drainage of the steam-pipes as a means of preventing all cracking or pounding noises; avoid the use of any fittings or connections which will admit of the lodgement of water.

To determine the size of pipes no fixed rule can be given which will apply in all cases. A rule that has generally been accepted by steam-fitters as good practice, is to allow the area of a one-inch pipe (.7854 square inches) for every 100 square feet of radiating-surface, including mains.

LIST OF SIZES OF STEAM MAINS.

Radiation.	One-pipe work.	Two-pipe work.
40 to 100 " 125 " 250 " 400 " 600 " 900 " 1,200 " 1,600 " 2,000 " 2,500 " 3,000 " 5,000 " 6,500 " 8,100 " 10,000 "	50 square feet.. 1 inch..... 1½ "..... 2 "..... 2½ "..... 3 "..... 3½ "..... 4 "..... 4½ "..... 5 "..... 5½ "..... 6 "..... 7 "..... 8 "..... 9 "..... 10 "	$\frac{3}{4}$ x $\frac{3}{4}$ inch. 1 x 1 " 1½ x 1½ " 2 x 2 " 2½ x 2½ " 3 x 3 " 3½ x 3½ " 4 x 4 " 4½ x 4½ " 5 x 5 " 5½ x 5½ " 6 x 6 " 7 x 7 " 8 x 8 " 9 x 9 " 10 x 10 "

In determining the size of main the steam-fitter should have in mind the conditions governing the plant under consideration. Should they be favorable, the mains being at a considerable height above the water-line, the runs short and the pipes not exposed, allow the maximum capacity as shown in table.

With unfavorable conditions, such as long and exposed mains, small boiler capacity, a great many branches with long horizontal runs, etc., use mains of large area.

Less than a 1½ inch pipe should not be used horizontally in a main, unless for a single radiator connection.

When mains are to be covered with some good non-conducting material, the surface in them need not be taken into account in proportioning their size, but when they are excessively long, or exposed to the cooling influence of the atmosphere, it should be considered.

When it becomes necessary to reduce a main in size, do not reduce at a point where any connection is taken off. It is better to reduce at a point ten or twelve feet beyond the connection.

All branch connections should be taken from the top of the main, using a tee on the main looking upwards, a nipple and elbow. This arrangement will permit of ample expansion and contraction.

Where return-pipes drop to enter the boiler, an automatic air-valve should be placed between elbow and water-line.

Globe valves should not be used upon low-pressure work. If their use cannot be avoided, place them in a vertical position, never in a horizontal position, as in this position they form a pocket for the lodgement of water.

The main, at point where connection to last radiator or riser is taken off, should be

as high above the water-line as circumstances will permit. It is not good practice to place any connection less than two feet above water-line.

Special attention should be given to the expansion and contraction of pipes and allowance made for it. Pipes and branches must be unconfined, especially in the direction of their length. Expansion joints should not be used if expansion can be compensated for by the use of right-angle turns, etc. Risers should be supported near the middle of their height and left free to expand at the ends.

AMERICAN BOILER COMPANY,
NEW YORK, N. Y.

NOTES.

MESSRS. N. & G. TAYLOR CO., Philadelphia, Manufacturers of Tin-plates, report a large and steadily growing business in their roofing tin in rolls. These rolls are sheets of tin soldered together with the aid of rosin, no acid being used. They are then thoroughly painted on one side, and carefully put up in rolls ready for shipping.

These rolls are particularly adapted for quick contracts as the tin is all ready for instant use, and for laying on the roof. Messrs. N. & G. Taylor Co. originated the idea of continuous roofing tin some thirty (30) years ago, and do the largest business in this line of any house in the country. They make the tin in all grades from their celebrated Taylor "Old Style" brand, extra heavy coated, down to ordinary grades.

They are also agents for "The Pancoast Ventilator," which is recognized among the technical as being made under scientific principles, and to be a ventilator that ventilates. They invite correspondence.

THE illustration of the Rotunda of the University of Virginia, which will be found elsewhere in this issue, is of especial interest at this time, as it affords a reason for stating that the fatal accident that occurred last month in one of the University buildings was due to the collapse of a concrete ceiling, built after another method than the tile dome here shown and by contractors who had no slightest connection with Mr. Guastavino or his method of "cohesive" building.

A USEFUL THING.

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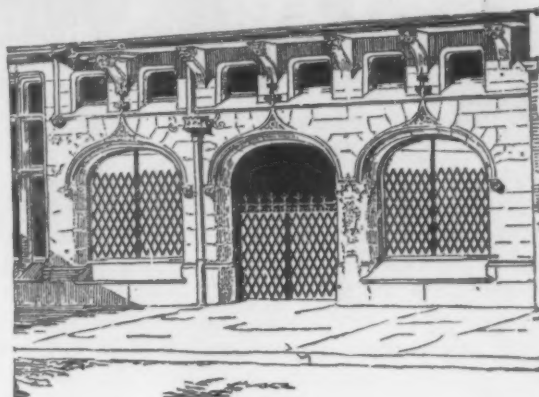
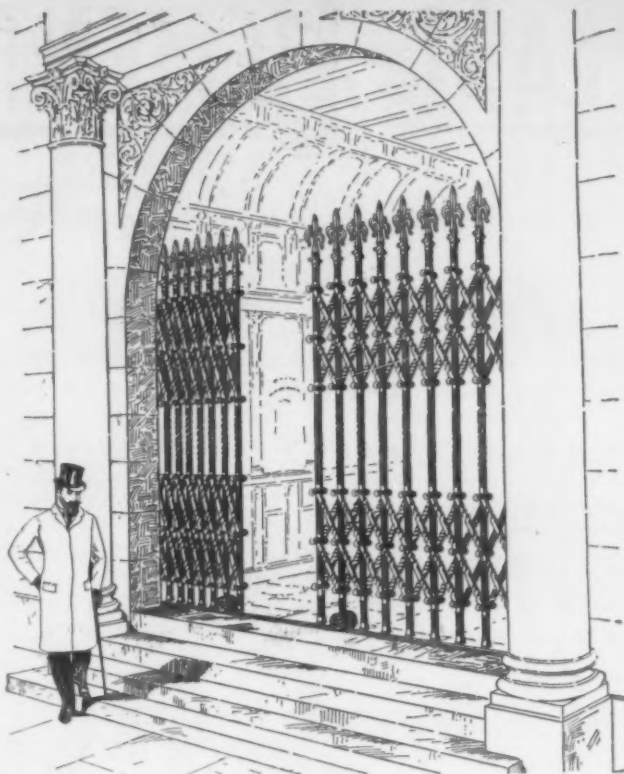
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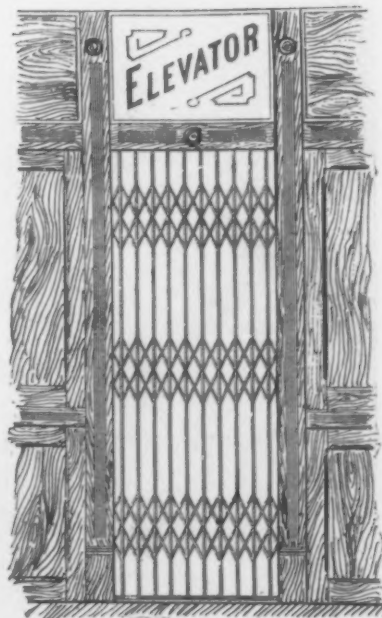
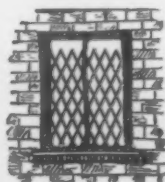
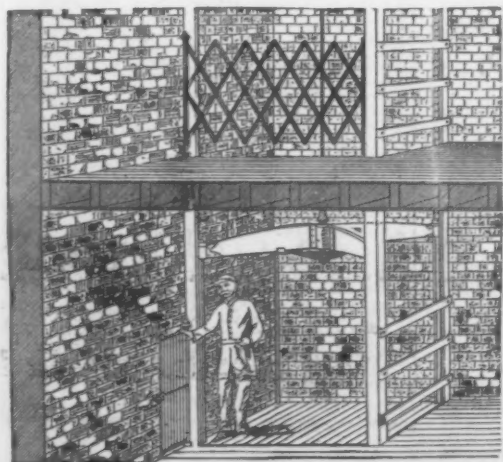
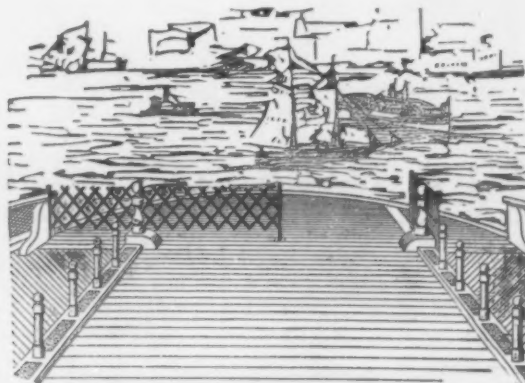
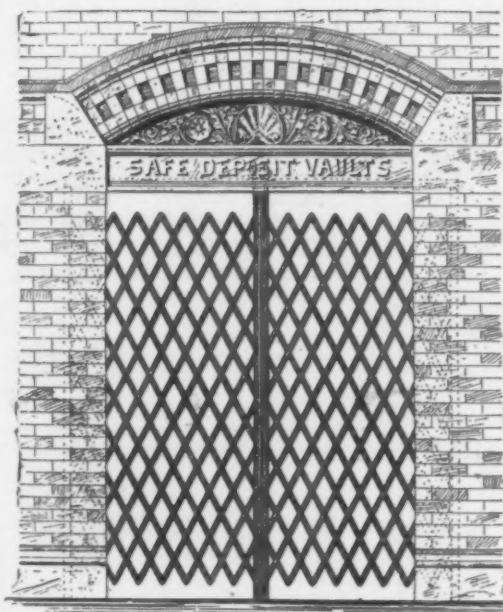
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OUR GATES ARE USED FOR SAFETY IN ALL ELEVATOR OPENINGS AND ON ELEVATOR CARS. THEY ARE THE STRONGEST AND BEST, THEREFORE ARCHITECTS SHOULD SPECIFY THEM, AND THEN SEE THAT THE CONTRACTOR SUPPLY THEM AND NO OTHER.

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WM. R. PITT COMPOSITE IRON WORKS,
123 FIFTH AVENUE, NEW YORK.



ALSEN'S PORTLAND CEMENT

is the strongest and most serviceable Cement made, and will permit the admixture of a larger amount of sand or gravel with less loss of strength than any other brand; it is therefore the most economical. It is the finest ground cement made, and has the largest bulk to the barrel.

The following test, made in actual work, by Col. D. C. Houston, Corps of Engineers, U. S. A., at the sea wall around Governor's Island, New York Harbor, has never been equalled by any other cement. It is as follows: Tensile strength per square inch, one day, 384 pounds; seven days, 600 pounds; thirty days, 818 pounds.

For Sidewalks it gives the best color, and the most enduring wearing surface. Most of the prominent Railroad Bridges and the large Office Buildings of the country stand upon a foundation of concrete made of ALSEN'S CEMENT.

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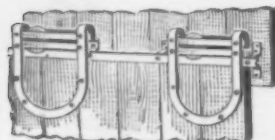
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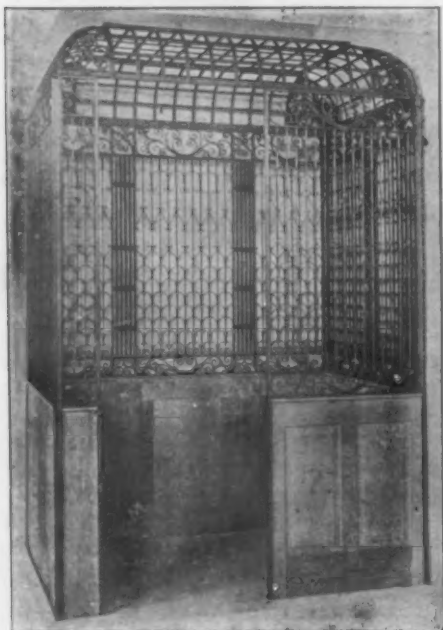
Hanger is made of steel throughout, including wheel, except the filling which deadens the sound. Single steel track instead of double wood rail. Ask your Hardware Dealer and send for Circular.

Manufactured by **LANE BROS., Poughkeepsie, N.Y.**

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Elevator Enclosures and Cabs,
Metal Work in Brass,
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Columbia, S. C., Dec. 15, 1893.

I find it too valuable and have derived too many benefits from it to part company.

FRANK NIERNSEE, Architect.

Cleveland, O., Dec. 7, 1893.

We shall do all in our power to assist in the continuance of the publication of the American Architect.

LEHMAN & SCHMITT, Architects.

The New York Safety
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No. 174.

SATURDAY, DECEMBER 5, 1896.

VOLUME LIV.
No. 1000.

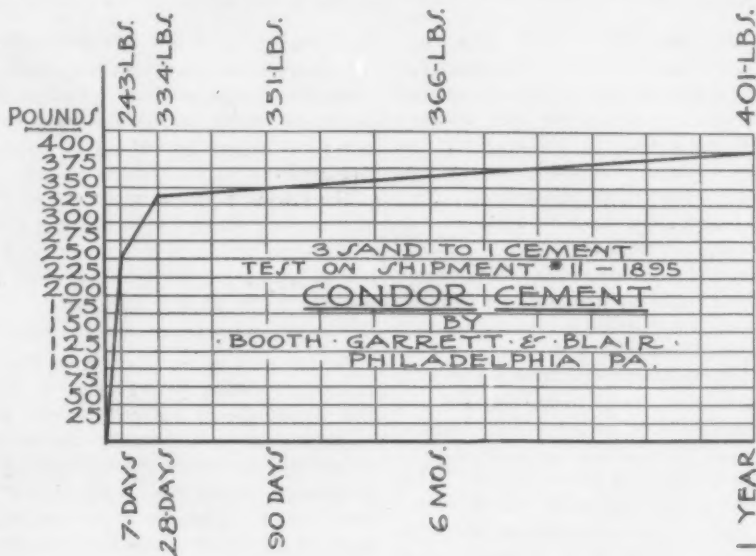
CONDOR ARTIFICIAL PORTLAND CEMENT.

When one makes a statement regarding an article he is endeavoring to place on the market, it is in justice to the purchaser, or consumer, that he stand willing to prove his claims by an impartial agent. This has always been our policy, and as a result we are to-day able to say that we have a ready market for our Condor Portland Cement, which no longer is unknown to the consumer of Portland Cements. On merits alone have we built up this reputation for a cement which has no superior. And to prove our claims, we have open for inspection the records of tests made of Condor Cement from the time we first started to import this brand.

those of our works, as well as those made here, of all the Condor Cement which we import. Every barrel of the shipment is stencilled with the number of our invoice, and again, in charging and billing our customers, a record is made of the number of the shipment.

Believing it would be of interest, we give the Record Tests of Condor Cement imported from January 1895 to November of this year, and we think that those conversant with the subject will agree that our claim for furnishing a cement which has not a superior is fully substantiated.

The average tests for all shipments covering this period, varying in quantity from 500 to 3,000 barrels, were as follows:



With as few words as possible we wish to state the method we have adopted to protect both our patrons and ourselves. When a shipment is made to us from our principals, the North's Portland Cement Works, samples are taken by them and tests made. This record is forwarded to us with the invoice, and again, other samples are placed in a metallic box, sealed and numbered, and held as reference should a controversy arise. Immediately on the arrival of the cement we have the casks inspected by a recognized cement testing firm, samples taken, and experiments made to determine the tensile strength, setting time and fineness. At different periods we have further tests made, such as the specific-gravity test, and also the test by chemical analysis. We therefore hold for reference a double record of tests, namely,

FINENESS.	
98.27 per cent	passed the No. 50 sieve.
89.07 " "	" " " " 100 "
SETTING TIME.	
Initial Set.....	1 hour, 30 minutes.
Final Set.....	6 " 45 "
AVERAGE TENSILE STRENGTH.	
NEAT CEMENT.	
7 Days..	639 pounds.
28 " ..	729 " "
Water...	22 per cent.
3 SAND TO 1 CEMENT.	
7 days..	236 pounds.
28 " ..	307 " "
Water...	10 per cent.

Ten briquettes were made from each shipment, and the above averages are computed from these records.

In September, 1895, we selected at random shipment No. 11, on which we had the following tests made. These tests were the average in each case from five briquettes, and show a gradual increase in tensile strength over a period of one year.

FINENESS.	
99.6 per cent	passed the No. 50 sieve.
92.7 " "	" " " " 100 "
66.5 " "	" " " " 200 "

SETTING TIME.	
Initial Set.....	1 hour, 20 minutes.
Final Set.....	3 " 25 "

TENSILE STRENGTH.

NEAT CEMENT.	
1 Day....	260 pounds.
7 " ..	681 " "
28 " ..	765 " "
Water....	22 per cent.

ONE-YEAR TEST, IN AIR.	
Briquette, No. 4,765.....	840 pounds.
" " 4,766.....	810 " "
" " 4,767.....	870 " "
" " 4,768.....	855 " "
" " 4,769.....	790 " "
Average....	833 pounds.

ONE-YEAR TEST, IN WATER.	
Briquette, No. 4,685.....	860 pounds.
" " 4,686.....	830 " "
" " 4,687.....	822 " "
" " 4,688.....	802 " "
" " 4,689.....	852 " "
Average....	833 pounds.

SAND TEST.	
1 Day, 1 Sand, 1 Cement..	202 pounds.
7 " 3 " 1 " ..	243 " "
28 " 3 " 1 " ..	334 " "
90 " 3 " 1 " ..	351 " "
6 Months, 3 " 1 " ..	366 " "
1 Year, 3 " 1 " ..	401 " "
Water...	10 per cent.

Much could be said upon the excellent results, as shown above. With regard to the fineness, we wish to say that while Condor Cement is not the finest-ground cement on the market it is sufficiently fine to answer every practical purpose. There are some cements which leave no residue at all on the No. 50 sieve, and pass as much as seventy to eighty per cent through the No. 200 sieve. To obtain these results necessitates increased expense in manufacture, which is not commensurate with the results obtained. A cement which can show such a high and regularly increasing strength, as demonstrated by the sand tests, must be ground properly as well as of proper chemical composition. Antoine Gillis, director of the Syndicate of Artificial Portland Cement Manufacturers of Belgium, has stated that "Long experience has demonstrated that the finer ground cement did not give better results after two years." It is good, practical results at which we aim, and not so much that we may say that Condor is the finest ground cement on the market.

Setting Time.—Engineers and cement experts look often with suspicion on cements which have very excessive tensile strength in short-time tests. Such cements are generally chemically treated in order to show high tensile strength in the seven and

twenty-eight-day tests, and are known to deteriorate in strength after a time, and often disintegrate.

In hydraulic work, where it is impossible to prevent the action of water from disturbing the concrete, quick-setting cements are almost indispensable. If, however, in putting down concrete for foundation work, it be possible even at an increased expense of mechanical contrivance that the concrete be kept intact from the action of currents of water until after the final set, the results obtained will be more satisfactory by using a medium or slow-setting cement.

Tensile Strength.—The sand tests, as shown above, speak for themselves. We wish especially to call your attention to the one-year tests, neat, in air and in water. Some cements are better adapted for work under water than others, but only a few are suitable for both purposes. It is remarkable that the five briquettes in air should average up exactly the same as those in water, and in this result we have a practical proof, aside from the chemical analysis, that we have produced so nearly the ideal cement.

Chemically analyzed, Condor cement shows as follows:

Silica.....	23.87	per cent.
Alumina.....	6.91	" "
Oxide of Iron.....	2.27	" "
Lime.....	64.49	" "
Magnesia.....	1.04	" "
Sulphuric Acid.....	0.88	" "
Specific Gravity.....	3.12	" "
Hydraulic Index.....	.47	" "

Few cements can show such a high percentage of lime as Condor, and at the same time such admirable proportion of lime to the silica and alumina. Were it not for this large percentage of these latter elements, it would be impossible to permit of what seems to be a "high limed" cement. It is agreed by cement authorities that it is a very desirable cement which can show these large percentages of the valuable constituents, and at the same time so little of the impurities, magnesia, sulphuric acid and iron. The permissible percentage of magnesia is a debatable question, yet this constituent is admitted to be one of the most treacherous impurities. The German Association of Cement Manufacturers started a few years ago to make a series of tests to determine the proper proportion of magnesia, which experiments have not yet been completed. It is generally admitted, however, that the limit of allowance should be between two per cent and three per cent. As Condor cement is already far below this limit we are little concerned as to the issue of this decision. In the case of the sulphuric acid, we are again below the danger point. Some cements require, it seems, the addition of sulphate of lime in order to retard the set; but from the nature of our raw material we are enabled to produce a cement which is exceedingly low in both magnesia and sulphuric acid. A prominent engineer was criticised lately for placing in his specifications for some very important work a limit of one per cent of sulphuric acid. It was claimed by the critics that sulphuric acid is necessary both to retard the set, which would naturally take place in fifteen minutes, and give a better tensile strength. From the above results we have demonstrated that a cement is manufactured which will qualify in every respect this engineer's requirements.

We have further information, which is at the disposal of any one feeling interested in the subject. Prices and information as to delivery will be gladly given.

EDWIN HALL & CO.,
305 WALNUT STREET, PHILADELPHIA.

ASBESTOS NON-CONDUCTING COVERINGS.

Asbestos¹ non-conducting coverings are made from the well-known incombustible mineral, asbestos.

For purity of material, elasticity and adaptability of structure, combined with general completeness in design, looking to efficiency with durability, these coverings are easily superior to all others.

ASBESTOS FIRE- FELT COVERING.

Asbestos, in its fibrous or finely divided form, produces numerous air-cells, and is a non-conductor of heat of a high order.

Asbestos Fire-felt is a fabric of fibrous asbestos, and is made in rolls, sheets and pipe sections.

In Fire-felt we have the most successful application of the air-space principle yet devised, and in a material at once fireproof, elastic, pleasing in color, and susceptible of any desired mechanical arrangement.

Asbestos Fire-felt sections are of sizes to fit standard makes of wrought-iron pipes, and are carried in stock. For cast-iron pipes, we make them to order, but exact outside diameter of these pipes must be furnished.

Each section is 36" in length. Quotations and correspondence invariably refer to the lineal foot. Orders are booked with this understanding, and all shipments are made in even 36" lengths.

Fire-felt sections for steam-pipes approximate 1" in thickness, increasing from the small sizes upward. They are covered with canvas, and bands for fastening are placed on each section.

ELBOWS, TEES, VALVES, ETC.

We carry in stock sectional coverings or fittings of Fire-felt for the elbows, tees and valves used in connection with standard wrought-iron pipes.

These asbestos fittings are canvased and banded, the same as the pipe-section.

Our largest stock size is for 12" pipe.

Irregular elbows, tees and valves, if at all near the dimensions of regular sizes, are covered by cutting the regular asbestos coverings to fit, and using asbestos cement felting to make good the deficiencies.

On large surfaces we cut from a sheet of 1" fire-felt sufficient to cover the iron, and wire same fast, finishing with asbestos cement in two coats. Sheet Fire-felt is furnished $\frac{1}{4}$ ", 1", $1\frac{1}{4}$ " and 2" thick, in sheets 24" x 36". Use ordinary No. 19 annealed iron or copper wire; on large surfaces hexagonal wire cloth may be used. Long sweep elbows should be covered in this way. In ordering material for such fittings, give extreme lengths and circumferences.

LARGE PIPES, DOMES, BOILERS, ETC.

For large pipes, boilers and other large surfaces, Fire-felt is furnished in sheets.

Sheet Fire-felt is a firm even block of fibrous asbestos, surprisingly light in weight.

It is singularly adaptable to all situations of heat insulation, and will remain intact and effective where other materials crack and disintegrate.

It does not sag, settle or powder.

Sheet Fire-felt is replete with air-spaces, and is confessedly the best form of heat-insulator known.

It is also permanently durable.

A sheet of Asbestos Fire-felt measures 36"

¹There are no approved forms of non-conducting coverings now in use which do not contain or depend upon asbestos.

long by 24" wide. Regular thicknesses are $\frac{1}{4}$ ", 1", $1\frac{1}{4}$ " and 2". Sheets of special dimensions furnished to order. When desired, we make them to fit curves of any radius. Sheet Fire-felt is held fast to boilers and other large surfaces by wires. As a finish it is customary to use canvas or else Asbestos Cement Felting. We furnish these materials as extras.

FLUES, BREECHINGS, BULKHEADS, ETC.

These surfaces are successfully insulated with Asbestos Sheet Fire-felt. These sheets, 36" x 24", are easily applied, and owing to their extreme lightness in weight do not sag the iron, so remain permanently in place. Where thorough insulation is looked for, we use the 2", or, at least, the $1\frac{1}{4}$ " sheets, wired fast and given a finish of hot blast cement.

The expansion and contraction of large sheet-metal surfaces is often so great as to injure cement coverings. In placing sheet fire-felt next to the iron this difficulty is entirely overcome. Dry-houses, ceilings, etc., can be lined in this way.

BOILER TOPS, IRREGULAR SURFACES, ETC.

Asbestos-sponge Cement Felting, an improvement on the old style of cement felting, is an effective covering for boiler tops, domes and irregular surfaces.

It is furnished dry in bags; one bag contains sufficient material for covering 40 square feet flat surface 1" thick. It should be mixed with water to the consistency of ordinary stiff mortar, and applied while the surface is hot, in three coats, to a thickness of at least $1\frac{1}{4}$ ".

We recommend Asbestos-sponge Cement Felting as a finish for roll and sheet fire-felt.

COLD WATER, AMMONIA AND BRINE PIPES.

So many difficulties attend the proper covering of cold pipes, and so much misinformation exists on this subject, that we prefer to correspond especially with those requiring such goods.

The thickness and arrangement of brine pipe-coverings depend upon the temperature of the brine, location of the pipes, etc. Prospective purchasers are asked for these particulars.

FURNACE PIPES, FURNACES, ETC.

For this work we manufacture our Fire-felt in rolls 36" wide, $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " thick. The importance of covering hot-air pipes in cellars is not generally appreciated. Tons of coal are wasted yearly in each house containing a furnace, the hot air passing out to overheat the cellar, the rooms upstairs suffering in proportion. The lightest covering for a hot-air pipe should be $\frac{3}{8}$ " roll Fire-felt. This material is easily cut, passed over the pipe and wired in place. On furnaces use $\frac{1}{4}$ " roll Fire-felt, or, for the best possible protection, use 1" sheet Fire-felt, and finish with cement felting. The practice of wrapping hot-air pipes with Asbestos Paper (i. e., building felt) we cannot endorse. It does not sufficiently insulate the heat and cannot prove satisfactory.

H. W. JOHNS MFG. CO.
87 MAIDEN LANE, NEW YORK.

N. & G. TAYLOR COMPANY, Philadelphia, Pa., as manufacturers' agents for the Pancoast Ventilator, issue a striking circular showing a half-tone picture of a 66" Pancoast Ventilator, 11 feet in diameter, which, with one of 84 inches, weighing over 1,000 pounds and nearly 14 feet in diameter, were lately sold to the Crittenden Manufacturing and Roofing Company of Minneapolis, Minn.

SOME INTERESTING EXPERIMENTS.

At the sixth annual or thirty-second meeting of the American Society of Mechanical Engineers, held at the rooms of the Society in New York City, in December, 1895, Mr. Albert Kingsbury, Durham, N. H., had a paper on "Experiments on the Friction of Screws." The tests were made by the aid of a specially designed machine built at the New Hampshire College shops. It now forms a part of the laboratory equipment of the college.

The author did not consider that the tests showed that any one of the metals developed less friction than any of the others, but the tests are specially interesting because of the great lessening of friction by means of graphite, as will be shown by the following :

Lubricator.	Minimum.	Maximum.	Mean.
Lard Oil.....	.09.....	.25.....	.11
(Heavy machinery),			
Oil, Mineral.....	.11.....	.19.....	.143
(Heavy machinery),			
Oil and Graphite			
(Equal volumes)....	.3.....	.15.....	.07

Mr. Kingsbury was complimented by Professor Thurston for the work he had accomplished. Personally, Professor Thurston had found that sperm oil was better than lard oil for reducing friction in such instances. He trusted that Mr. Kingsbury would continue his investigations.

Mr. Kingsbury felt gratified at the manner in which his paper had been discussed, and in a reply to a question that had been asked, he said that the graphite used was from the Joseph Dixon Crucible Company, Jersey City, N. J. He said he did not intend anything in the way of an advertisement. He also added that he had tried to purify the graphite, but there was no gain. In order to satisfactorily employ the graphite the fit must be loose.

Some years ago, when Professor Thurston was connected with Stevens Institute, he made a series of experiments to determine

with scientific accuracy the value of graphite as a lubricant. He found that under the same number of pounds-pressure, and traveling at the same rate of speed, the bearings lubricated with Dixon's graphite, mixed with enough water to distribute it over the bearings, did nearly three times more work than the best quality of winter sperm oil. He also found that when 15 per cent, by weight, of graphite was added to the best quality of lubricating grease, he was able to run the bearings nearly six times longer, at the same high rate of speed, than when the bearings were lubricated with the same grease, without the addition of graphite. Furthermore, where the graphite was used there was no cutting and the bearings were in perfect condition.

Little, if any, of the commercial graphite in the market is fit for lubricating purposes, and bearings have been so frequently cut or ruined by its use, that there has been a very strong prejudice against its adoption by master-mechanics and superintendents having charge of expensive machinery. It is safe to say, however, that when graphite is properly prepared, it will not only reduce friction much better than any oil or grease alone, but, furthermore will perceptibly reduce the cost of lubrication.

JOSEPH DIXON CRUCIBLE COMPANY,
JERSEY CITY, N. J.

THE BEST BOILER.

AFTER deciding whether to use steam or hot water for warming a building, the next question is which is the best boiler to use. There are many styles of steam and hot-water boilers on the market, and as each manufacturer claims points of superiority over his competitors, it is very hard for a person not familiar with the construction of boilers to decide.

In order to obtain the most economical results from a boiler, the fire must be kept at a uniform depth over the grate by scattering a

little coal over the fire at short intervals, the same as an engineer fires a power boiler, for if a boiler is not properly fired you will waste fuel and condemn it when the fault is entirely your own.

In heating a residence, convenience and comfort require a boiler that will run the longest possible time and require the least attention, for it is very inconvenient to care for a fire in a surface-burning boiler, which requires attention several times a day and has to be covered at night in order to keep it until morning, consequently very little or no heat can be had during the night. Therefore, for heating purposes, a boiler is required which is so constructed that it will be self-feeding and yet have a surface-burning fire.

The boiler which seems to fulfil these requirements is the Gorton Side-Feed Boiler, which has a reservoir for coal between the lower outer surface of the boiler and the upper part of the water-leg, and will hold enough coal to last from twelve to twenty-four hours. The coal in the reservoir feeds below the lower edge of the boiler shell, at an angle of 45 degrees, towards the centre, thus giving a surface-burning fire, with ample space between the top of the coal and the shell of the boiler for perfect combustion of the gases. These enter the tubes at the highest temperature, and, passing through, return down around the shell before going out through the smoke-pipe at the rear. The tubes are placed as thickly in the boiler as will admit of proper circulation, thus subdividing the water-spaces and enabling the heat to act most effectually, which makes the evaporative efficiency of this boiler fully equal to that of the return tubular power boiler.

It will therefore be seen from the above that the Gorton Side-Feed Boiler is built on the correct principle, to give the greatest economy in fuel with the least attention, and insures a warm building day and night.

GORTON & LIDGERWOOD MFG. CO.,
NEW YORK, N. Y.

Cathedral of St. John the Divine.

New York, N. Y.



WE offer the illustrations of the competitive designs for the great Protestant Episcopal Cathedral, now building on Bloomingdale Heights, New York, submitted by the following Architects :

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B. G. GOODHUE	" " "	STEPHEN C. EARLE	WORCESTER, MASS.
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RENWICK, ASPINWALL & RUSSELL	" " "	"	"
FREDERICK C. WITHERS	" " "	W. S. FRAZER	PITTSBURGH, PA.
"	"	"	"
PARFITT BROTHERS	BROOKLYN, N. Y.	L. S. BUFFINGTON	MINNEAPOLIS, MINN.
"	"	"	"
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"	"	"	"

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AMERICAN ARCHITECT AND BUILDING NEWS COMPANY,

211 TREMONT STREET,
BOSTON, MASS., U.S.A.

ALSEN'S PORTLAND CEMENT

is the strongest and most serviceable Cement made, and will permit the admixture of a larger amount of sand or gravel with less loss of strength than any other brand; it is therefore the most economical. It is the finest ground cement made, and has the largest bulk to the barrel.

The following test, made in actual work, by Col. D. C. Houston, Corps of Engineers, U. S. A., at the sea wall around Governor's Island, New York Harbor, has never been equalled by any other cement. It is as follows: Tensile strength per square inch, one day, 384 pounds; seven days, 600 pounds; thirty days, 818 pounds.

For Sidewalks it gives the best color, and the most enduring wearing surface. Most of the prominent Railroad Bridges and the large Office Buildings of the country stand upon a foundation of concrete made of ALSEN'S CEMENT.

Alsen's Portland Cement Works, New York Office, 143 Liberty Street.

NOTES.

THE Henry R. Worthington Company, manufacturers of pumping machinery, has just received word through its London office that the exhibit of Worthington pumps at the Hungarian National Exhibition at Budapest has been awarded a Grand Millenium Medal. This medal is the only award made for pumping machinery at the Exhibition.

THE change that has just taken place in the style and title of the Tiffany Pressed Brick Company, of Chicago, indicates with some significance the development of the use and manufacture in this country of enamelled brick. Hereafter this company is to be known as the Tiffany Enamelled Brick Co., which indicates that though the making of pressed brick is to be continued, the demand for enamelled brick has brought a greater development to that branch of their industry.

Mr. James S. Rankine, formerly President of the Pennsylvania Enamelled Brick Co., has become the Eastern Agent for the Chicago concern, with offices at 156 Broadway, New York.

POSSIBLY no other among the many unique businesses conducted in the City of New York is better known or has a wider field of usefulness than the Manufacturers' Advertising Bureau.

This concern was established in 1879 by its present head and proprietor, Benj. R. Western, formerly publisher of the *Engineering and Mining Journal*, the *Manufacturer and Builder*, and *Coal and Iron Record*, all of New York.

Its purpose is the management of the newspaper work and advertising for manufacturers who desire this important branch of their business handled in a systematic and profitable way.

The Trade Journals are its field, and the Bureau is an acknowledged authority regarding mediums of this class.

Its long connection and intimate relations with the Trade press in all parts of the United States, and representing every industry, enable it to bring to its work an experience and knowledge that insures the best possible results.

The present location of the Manufacturers' Advertising Bureau, 126 Liberty Street, New York, is an admirable one and affords the best of facilities for transacting its large and growing business in a satisfactory and expeditious manner.

BUILDING INTELLIGENCE.

Reported for the American Architect and Building News

HOUSES.

New Rochelle, N. Y.—Two-st'y frame dwell.; \$5,000; own., Walter Large; arch., R. Hanford Sturgis.

Brooklyn, N. Y.—*Richards St.*, n w cor. Fremont St., three-st'y and basement brick dwell., tin and slate roof; \$16,000; own., William McGuire, on premises; arch., T. F. Houghton, 213 Montague St.

Fourth Ave., No. 102, three-st'y brick dwell., 20' x 70', tin roof; \$5,500; own., Rose O'Brien, 57 St. Mark's Pl.; arch., W. J. Dittie, 1 Union Sq., New York City.

Fifty-eighth St., s s, 120' w 5th Ave., 4 two-st'y and basement brick dwells., 20' x 45', tin roofs; \$18,800; own. and arch., T. C. McKenney, 517A McDonough St.

Pacific St., n s, 183' w 6th Ave., 7 three-st'y brick dwells., 20' x 45', tin roofs; \$31,000; own., arch. and bid., C. P. S. Kelton, 296 Sixth Ave.

Prospect Pl., n s, 165' w Bedford Ave., 8 two-st'y and basement brick dwells., 20' x 45', tin roofs; \$28,000; own. and arch., J. F. Graham, 232 Sumner Ave.; bid., C. W. Dahl, 215 Channoy St.

Church Ave., n e cor. East 21st St., two-st'y and attic frame dwell., 38' 8" x 41' 10", shingle roof; \$7,500; own., John L. Zabriskie, Flatbush and Church Aves.; arch., John J. Pettit, 188 Remsen St.; bid., J. C. Sawkins, 83 East Broadway.

Clinton Ave., s w cor. De Kalb Ave., four-st'y brick dwell., 24' x 80' 7", tin roof; \$28,000; own., James Burke, 191 Montague St.; arch., John L. Young, 1239 Bedford Ave.

Second St., n s, 223' w 5th Ave., 4 four-st'y brick dwells., 20' 10" x 55', tin roofs; \$41,000; own., Murray Land and Improvement Co., 66 Myrtle Ave.; arch., L. Lauritzen, 24 East 23d St., New York.

Nyctase Ave., s s, 25' w Van Siden Pl., three-st'y frame dwell., 20' x 55', tin roof; \$6,000; own., Mrs. Nellie Sypher, Stratton's Walk and the Bowery; arch. and bid., H. D. Whipple, West 8th St., nr. Surf Ave.

STORES.

Brooklyn, N. Y.—*Fifth Ave.*, s s, 22' 0" n 30th St., 3 five-st'y brick stores and dwells., 26' x 60', tin roofs; \$32,500; own., M. F. Mills, 152 West 119th St., New York; arch., H. G. Siebel, 253 Broadway, New York.

Fifth Ave., n e cor. 39th St., five-st'y brick store and dwell., 22' 6" x 71', tin roof; \$12,500; own., M. F. Mills, 152 West 119th St., New York; arch., H. G. Siebel, 253 Broadway, New York.

Columbia St., No. 166, three-st'y brick store and dwell., 10' x 75' 0", tin roof; \$8,000; own., McInerney Bros., on premises; arch., C. H. Gilvray, 1 Broadway, New York; bid., C. F. Bond, 138 Liberty Ave.

Buffalo, N. Y.—*Washington St.*, n N. Y. C. and H. R. E. tracks, three-st'y brick store and flats, 23' 9" x 36' 3"; \$9,000; own., J. Schroeder; bid., Fred Luechman.

Main St., Nos. 554-562, seven-st'y fireproof store-building, 30' x 116'; \$120,000; own., C. W. Evans Estate; arch., E. A. Kent.

Main St., Nos. 464-470, five-st'y fireproof store-building, 30' x 73'; \$30,000; own., Philip Becker & Co.; bid., Henry Schaefer's Sons; arch., R. A. Waite.

Pearl St., nr. Builder's Exchange, three-st'y brick store and office building, 20' x 40' x 40'; \$5,000; own., T. W. Miller; bid., Henry Rumrill, Jr. & Co.

Chicago, Ill.—*Mrs. L. Hartman*, three-st'y store and flats, 535 Forty-seventh St.; \$13,500.

Ed. Bergh, three-st'y brick store and flats, 1299 Kimball Ave.; \$8,000.

Orange, N. J.—Three-st'y brick store and factory; \$10,000; own., Frank Jones; arch., F. R. Hasselman, Decker Building.

TENEMENT-HOUSES.

Buffalo, N. Y.—*Chenango St.*, Nos. 94-96, three-st'y brick tenement, 46' x 42'; \$18,000; own., William D. Koelsch; bid., Michael Kempf.

WAREHOUSES.

Brooklyn, N. Y.—*Bryant St.*, on dock foot of, one and two-st'y brick store-house, 50' x 100', gravel roof; \$5,000; own. and arch., Milliken Bros., 39 Cortlandt St., New York.

MISCELLANEOUS.

Buffalo, N. Y.—*William St.*, n s, e Jefferson St., five-st'y fireproof building for store and lodge purposes, 53' x 105'; \$35,000; own., East Side Odd Fellows Temple Association; arch., F. C. H. Mohr; bid., Wm. Schumacher.

(Houses Continued.)

New York, N. Y.—*Foster Ave. and Home St.*, 10 three-st'y frame dwells., 20' x 50', furnaces; \$60,000; own., Charles Hohl, 1175 Foster Ave.; arch., Edw. Weas, 1491 Third Ave.; not let.

One Hundred and Forty-first St., nr. Boulevard, 4 three-st'y brick dwells., each 18' 9" x 65', furnaces; \$50,000; own. and arch., John P. Leo, 2 East 125th St.

One Hundred and Eighteenth St., 6 three-st'y brick dwells.; \$12,000 each; own. and bid., Francis Crawford; arch., Alfred H. Taylor.

West Seventy-sixth St., No. 26, four-st'y dwell.; \$40,000; own., Henry Goldman, 9 Pine St.; bid., J. Zimmerman, 1368 Broadway; arch., Schickel & Dittmar.

St. Louis, Mo.—Two-st'y dwell., s s Cleveland St., bet. Grand and Spring Sts.; \$5,000; own., C. Pickel.

Two two-st'y dwells., s s Morgan St., bet. Sarah and Whittier Sts.; \$9,000; own., F. Gear.

Two-and-one-half-st'y dwell., s s Raymond Pl., bet. Kingshighway and Academy St.; \$5,000; own., L. J. Dunaway.

Two-and-one-half-st'y dwells., s s Raymond St., bet. Academy and Clarendon Sts.; \$5,000; own., L. J. Dunaway.

Two two-and-one-half-st'y dwells., s s Castleman St., bet. Tower Grove and Klemm Sts.; \$6,400; own., A. G. Alple.

Two two-and-one-half-st'y dwells., s s McPherson St., bet. Lake and Union Sts.; \$16,000; own., N. N. Culver.

Two-st'y dwell., s s Raymond Pl., bet. Clarendon and Academy Sts.; \$5,300; own., Y. T. Marshall.

Three-st'y dwell., s s Washington Terrace, bet. Goodfellow and Union Sts.; \$12,000; own., Snoulin R. E. Co.

Three-st'y dwell., n s Cabanne St., bet. Kingshighway and Academy Sts.; \$5,000; own., B. Edmunds.

Two-and-one-half-st'y dwell., s s Cabanne Pl., bet. Clarendon and Academy; \$4,000; own., S. S. Pomeroy.

OFFICE-BUILDINGS.

St. Louis, Mo.—*Seventh and Pine Sts.*, twelve-st'y brick and stone office-building, 59' x 185'; \$350,000; own. Gen. Joseph Scott; arch., W. Albert Swasey; bid., George A. Fuller Construction Co., Chicago, Ill.

STABLES.

Boston, Mass.—*Wyoming St.*, nr. Warren St., one-st'y frame stable, 25' x 35', pitch roof, stoves; \$1,500; own., Harriet R. Shaw, 3 Wyoming St.; not let.

Brookside Ave., No. 105, two-st'y frame stable, 24' x 36', flat roof, stoves; \$1,200; own., arch. and bid., Joseph P. Shaw, 45 Eliot St., Jamaica Plain.

Spencer St., nr. Talbot Ave., one-st'y frame stable, 22' x 25', pitch roof; \$800; own. and bid., Benj. J. Moxon, 47 Spencer St., Dorchester.

Chestnut Hill, Pa.—*Germantown Ave.*, No. 7707, brick stable, 14' x 14'; own., W. H. Foulk, Mermaid Ave.

Chicago, Ill.—*Wm. R. Hennig*, two-st'y brick barn, rear 4343 Grand Boulevard; \$1,000.

H. F. Winkelman, two-st'y private stable, 741 North Kedzie Ave.; \$1,000.

Cincinnati, O.—*McMillan St.*, two-st'y brick stable, 25' x 25'; \$800; own., Wm. Kalling; arch., Joseph Steinkamp.

Patterson St., frame shed, 2 frame stables, 30' x 35'; \$1,100; own., Clin. Street R. Co.; con., M. Marcus; arch., B. L. Baldwin.

Medford, Mass.—*Kenway St.*, one-and-one-half-st'y frame stable, 30' x 30', pitch roof; \$750; own., W. B. Parker; bid., F. A. Harmon, on premises.

Newton, Mass.—*Winchester St.*, one-st'y frame stable, 20' x 57'; \$2,000; own., Rev. John F. Ford; Working Boys' Home.

Philadelphia, Pa.—*Reese St.*, No. 3945, brick stable, 16' x 32'; own., James Mallon, 3946 North 5th St.

STORES.

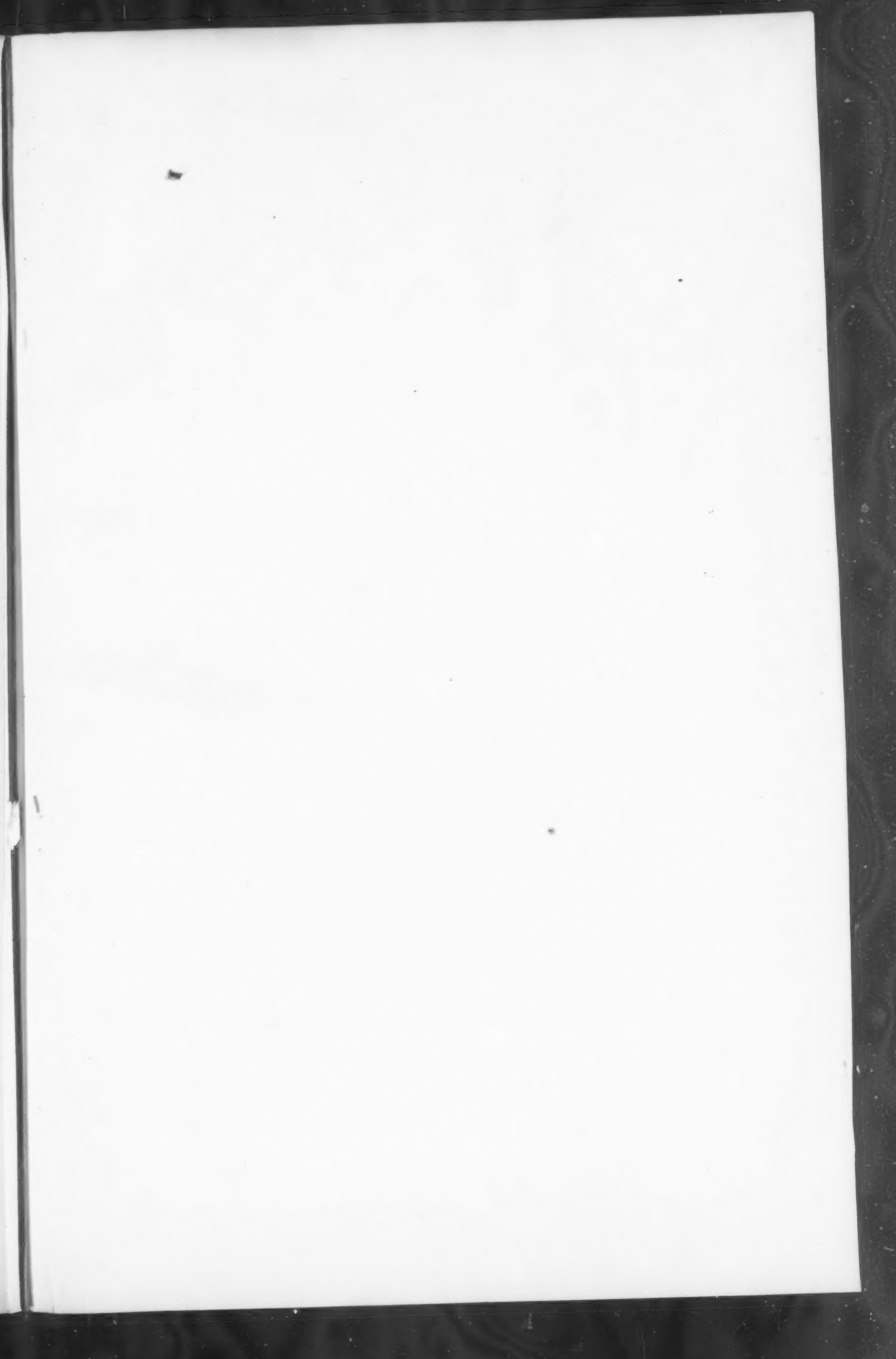
Boston, Mass.—*Dudley St.*, *Guild Row* and *Roxbury St.*, Ward 19, 8 frame stores, 20' x 50', two-45' x 50', one, 40' x 50' x 55', one, 24' x 41' x 50', one, 20' x 30' x 50', other, 24' x 50' x 55', flat roofs, stoves; \$15,000; own., H. E. & W. H. Weston, 125 St. Eoloph St.; arch., Morrison & McEwen.

TENEMENT-HOUSES.

Lawrence, Mass.—*Broadway*, three-st'y brick building for 3 stores and 6 flats, 61' x 70', steam; \$15,000; own. George H. Woodman, 82 East Haverhill St.; arch., George G. Adams; not let.

MISCELLANEOUS.

Boston, Mass.—*Neponset Ave.*, Ward 24, one-st'y frame car-house, 91' x 540', flat monitor roof, steam heat; \$50,000; own., arch. and bid., West End St. Ry. Co., 81 Milk St.



EDITORIAL SUMMARY.
HISTORY OF THE UNITED STATES CAPITOL. - VII.
JONES'S PORCHICO OF OLD ST. PAUL'S.
BISHOPSTONE CHURCH, WILTS, ENG.
COMMUNICATIONS
NOTES AND CLIPPINGS.

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Any iron will do for rough work.
Is there any advantage in using inferior iron?

Macon, Ga., Dec. 17, 1898.
I have been a subscriber for the last thirteen years, and would miss the weekly visits of this paper very much." P. E. DENNIS, Architect.

Louisville, Ky., Dec. 8, 1893.
It has assisted us, at a moderate cost, in collecting
a stock of publications which have assisted us greatly
in the pursuit of our profession, and on which we rely
as a good deal for suggestions.
McDONALD BROS., Architects.

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VOL. LIV.—No. 1084.]

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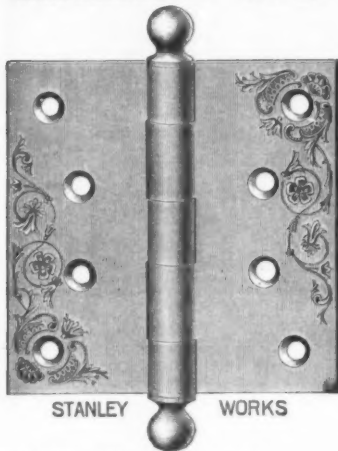
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Brown (Connecticut).....

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Berlin.....

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Potdam Red.....

Caen.....

Carlisle, English.....

Corse Hill (Scotch).....

Granite: (Maine)

Limestone:

Bedford.....

Joliet.....

Lemont.....

Serpentine.....

Bluestone: (P sq. ft.)

Sidewalk.....

Planed.....

Marble: (P cu. ft.)

Lee, Mass.....

Rutland, white and blue.....

Sutherland Falls.....

Glens Falls, black.....

Italian, blue-veined.....

" Siena.....

Tennessee, red.....

" Knoxville.....

Pennsylvania, blue.....

Vermont, white.....

Slate: Roofing (P square).

Green.....

" unfading.....

Purple.....

Red.....

Black, Lehigh.....

" Chapmans.....

Genuine Bangor.....

Unfading black, Brownville, Me.....

" Monson, Me.....

Tiles, Am.....

N. Peach Bottom, war, unfading.....

Fire Clay Roof Tile on car at fac.

BRICK.—P M.

Common: Cargo float.

Pale.....

Jersey.....

Long Island.....

Up River.....

Haverstraw Bay 2d.....

" 1st.....

Hollow.....

Fronts:

Croton, Brown.....

" dark.....

" red.....

Chicago pressed (Anderson).....

" Moulded.....

Baltimore.....

Philadelphia.....

Trenton.....

Milwaukee.....

Moulded:

Glens Falls Red Pressed.....

" " Buff.....

" " Moulded Red & Buff.....

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Enamelled (edge and end).....

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" (casting).....

Hair (cattle) P bush.....

" (Goats).....

Sand, P load.....

(Wholesale Prices.)

(Prices to Builders and Contractors.)

5 00 P ton.

4 00 P perch.

1 25 @ 1 50

80 @ 90

90 @ 1 10

1 00 @ 1 30

90 @ 95

75 @ 1 00

75 @ 1 00

80 @ 1 25

80 @ 1 35

75 @ 90

80 @ 1 40

80 @ 2 00

80 @ 1 05

80 @ 1 05

80 @ 60

45 @ 1 25

1 10

10 50 per ton.

30 @ 5 00

50 @ 6 00

1 75 @ 2 50

3 00

2 00

1 25 @ 1 75

1 75 @ 2 50

3 00

2 00

1 25 @ 1 75

1 75 @ 2 50

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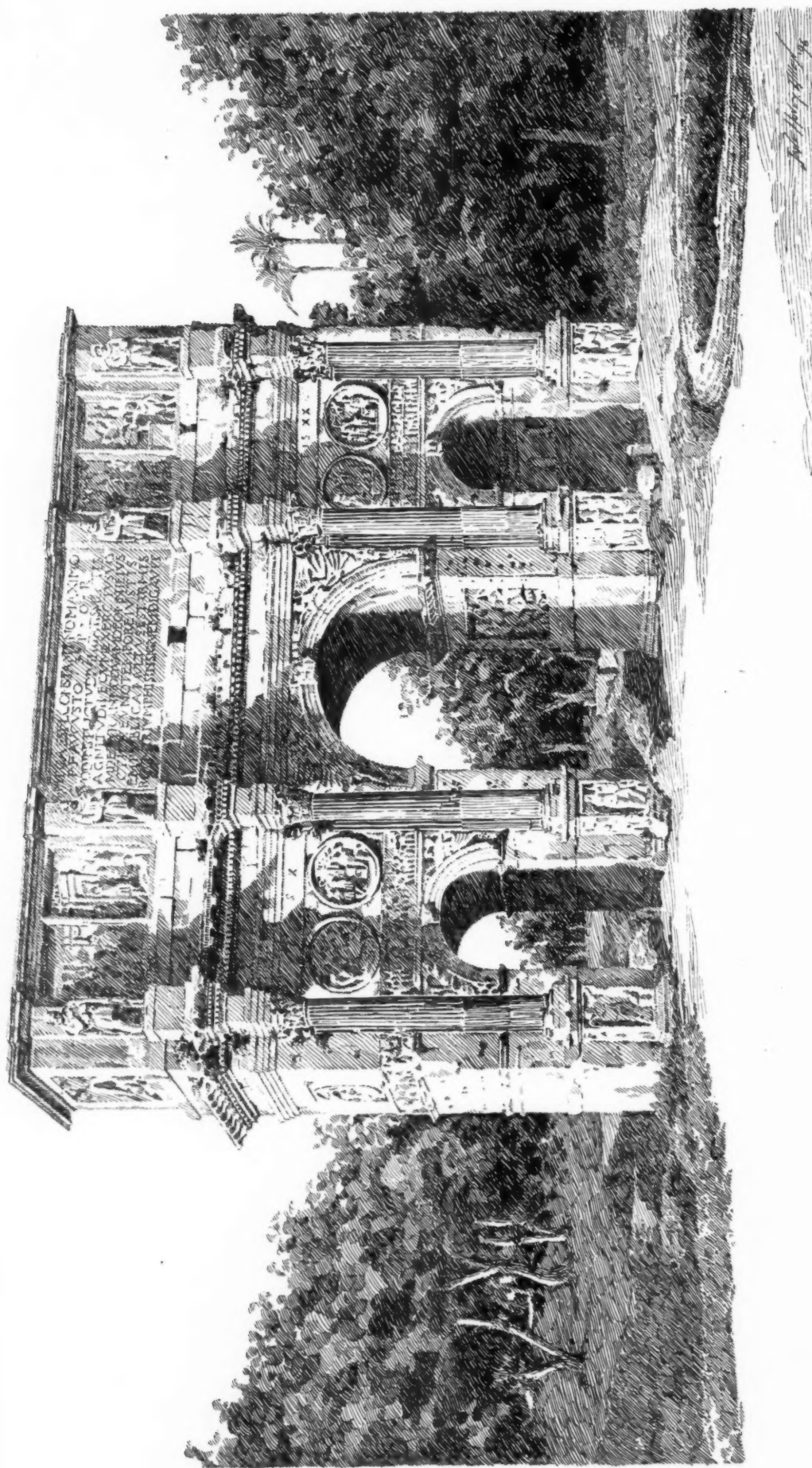
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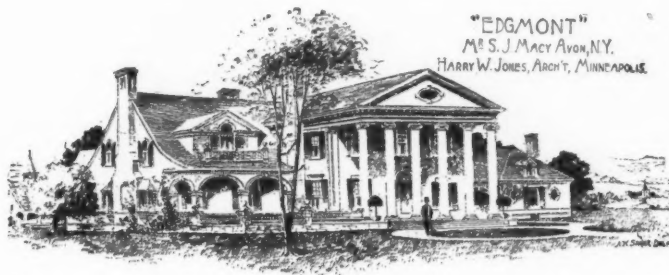
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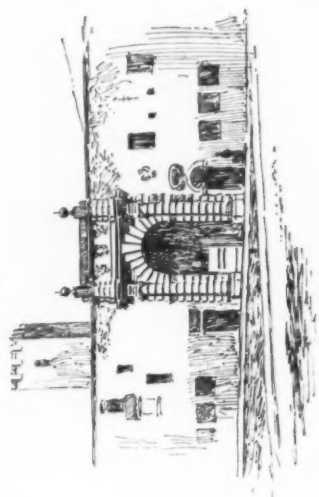
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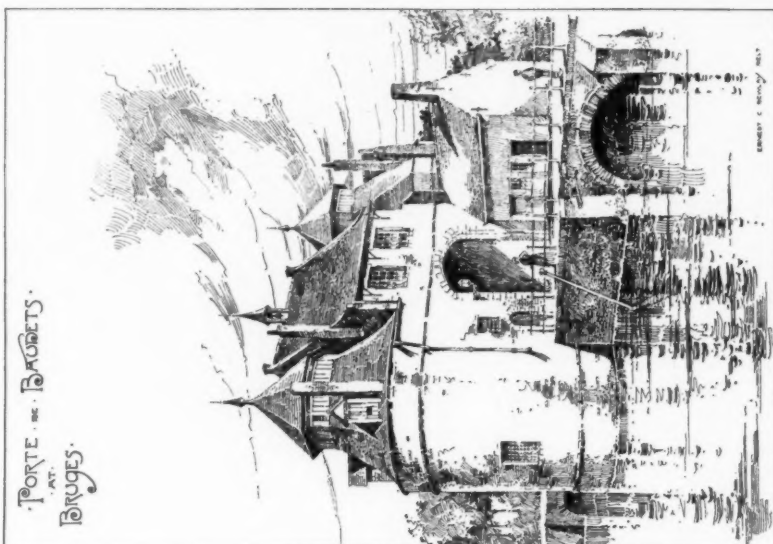
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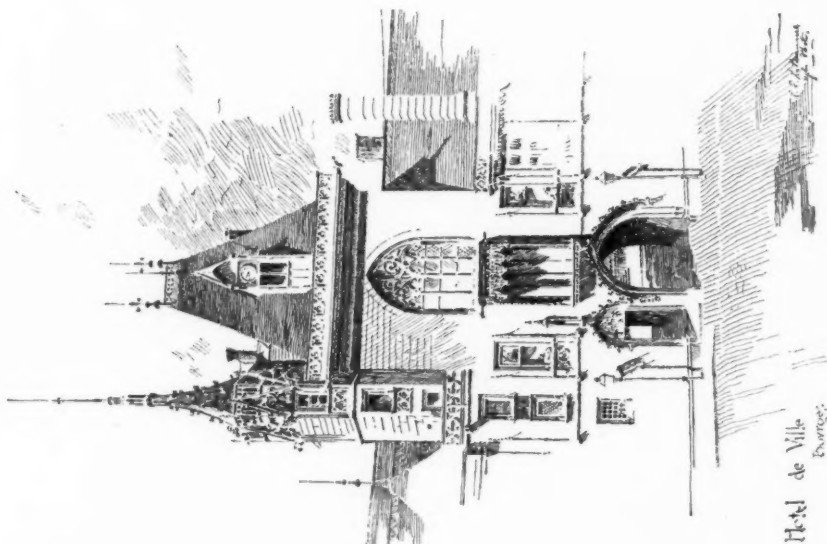
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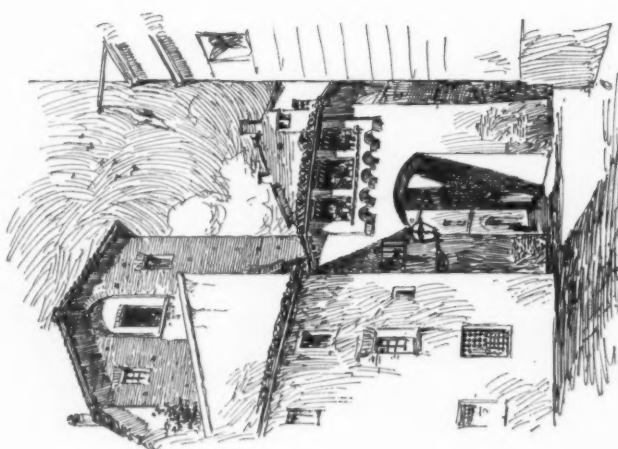
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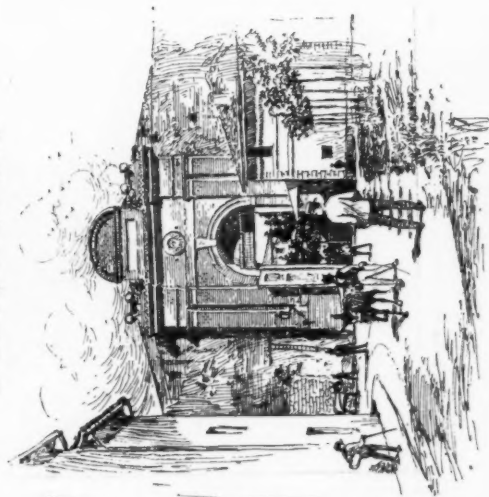
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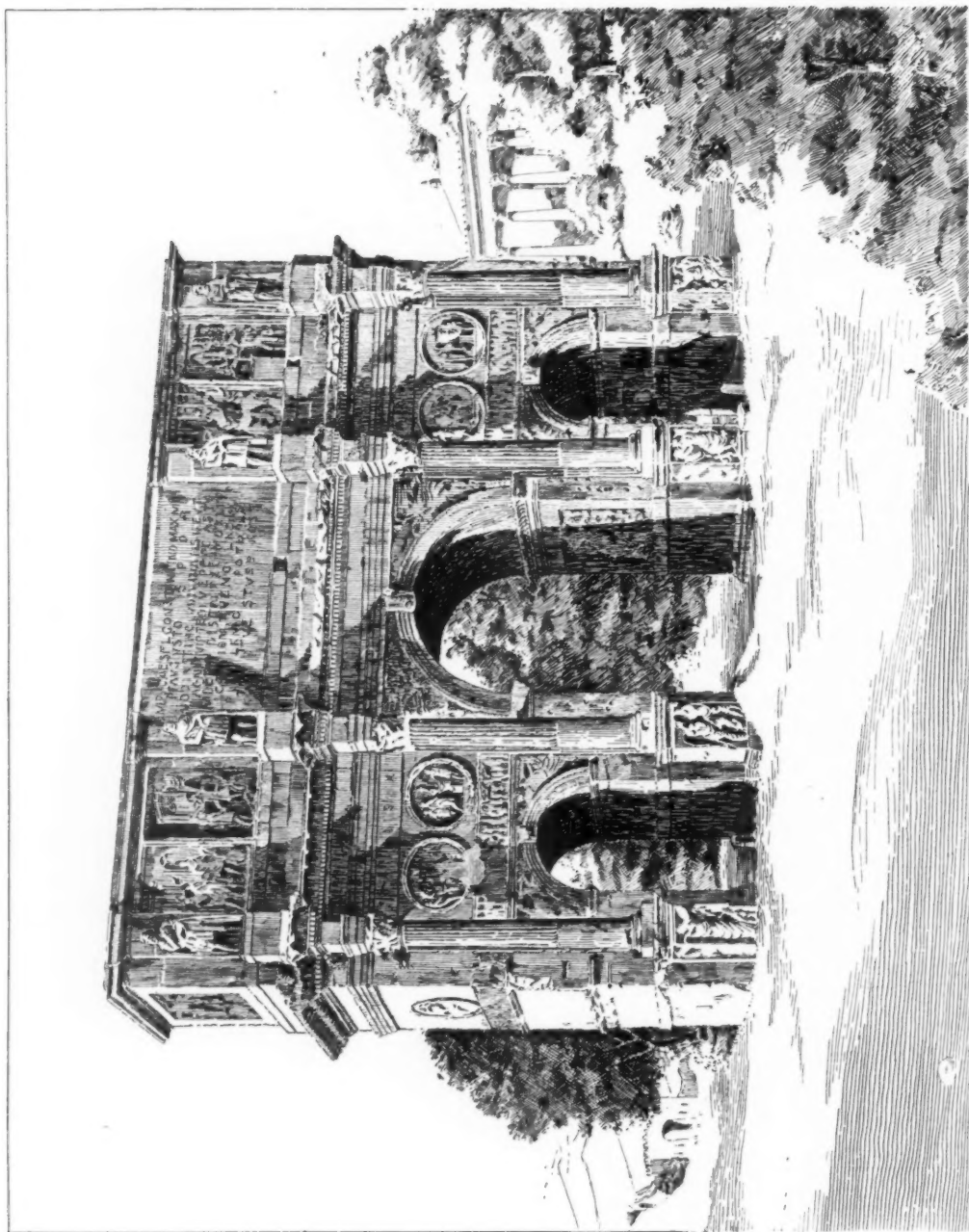
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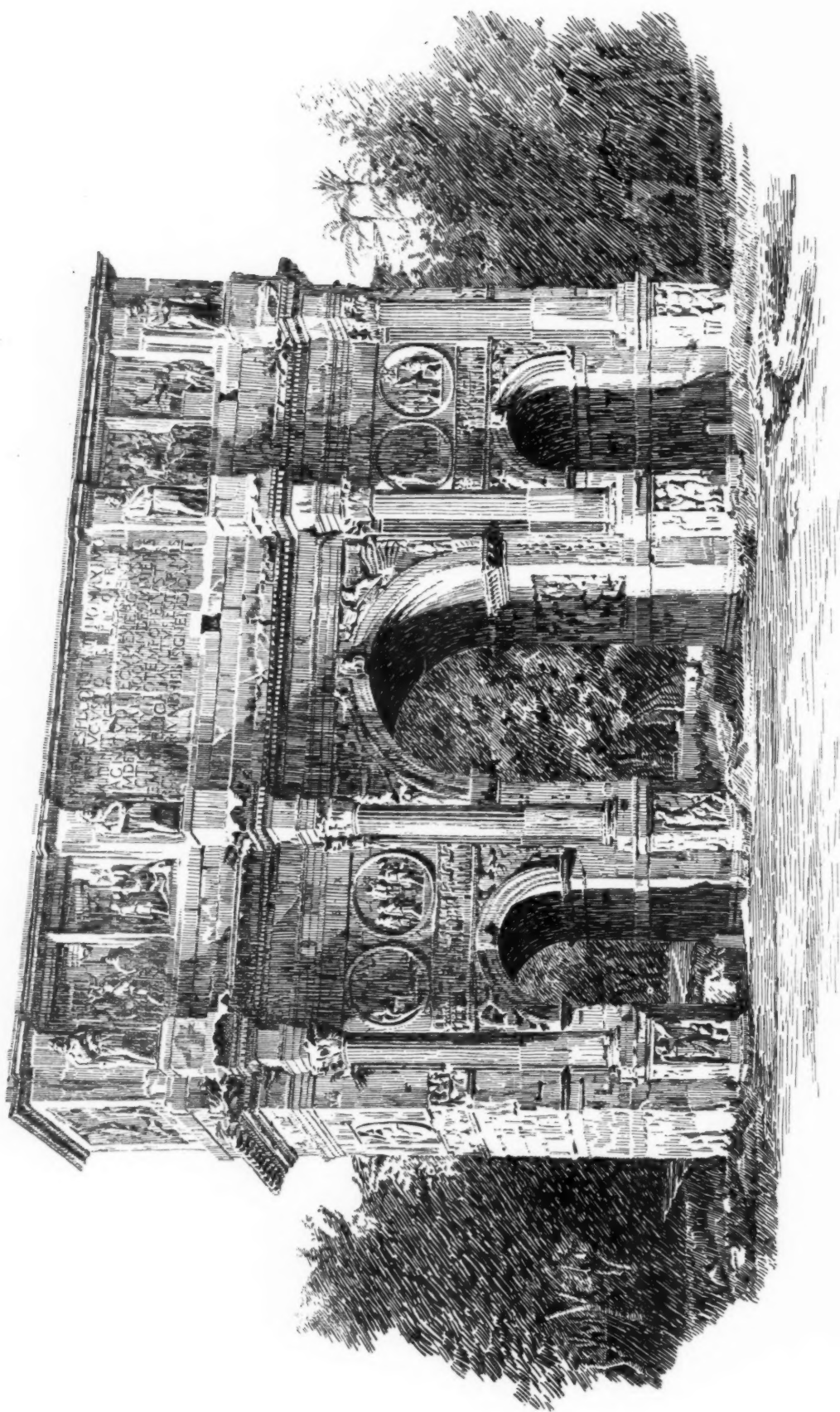
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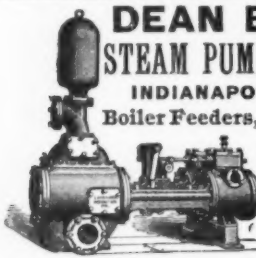
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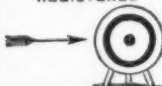
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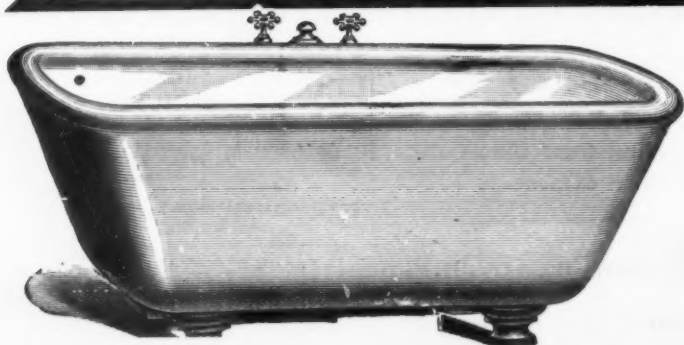
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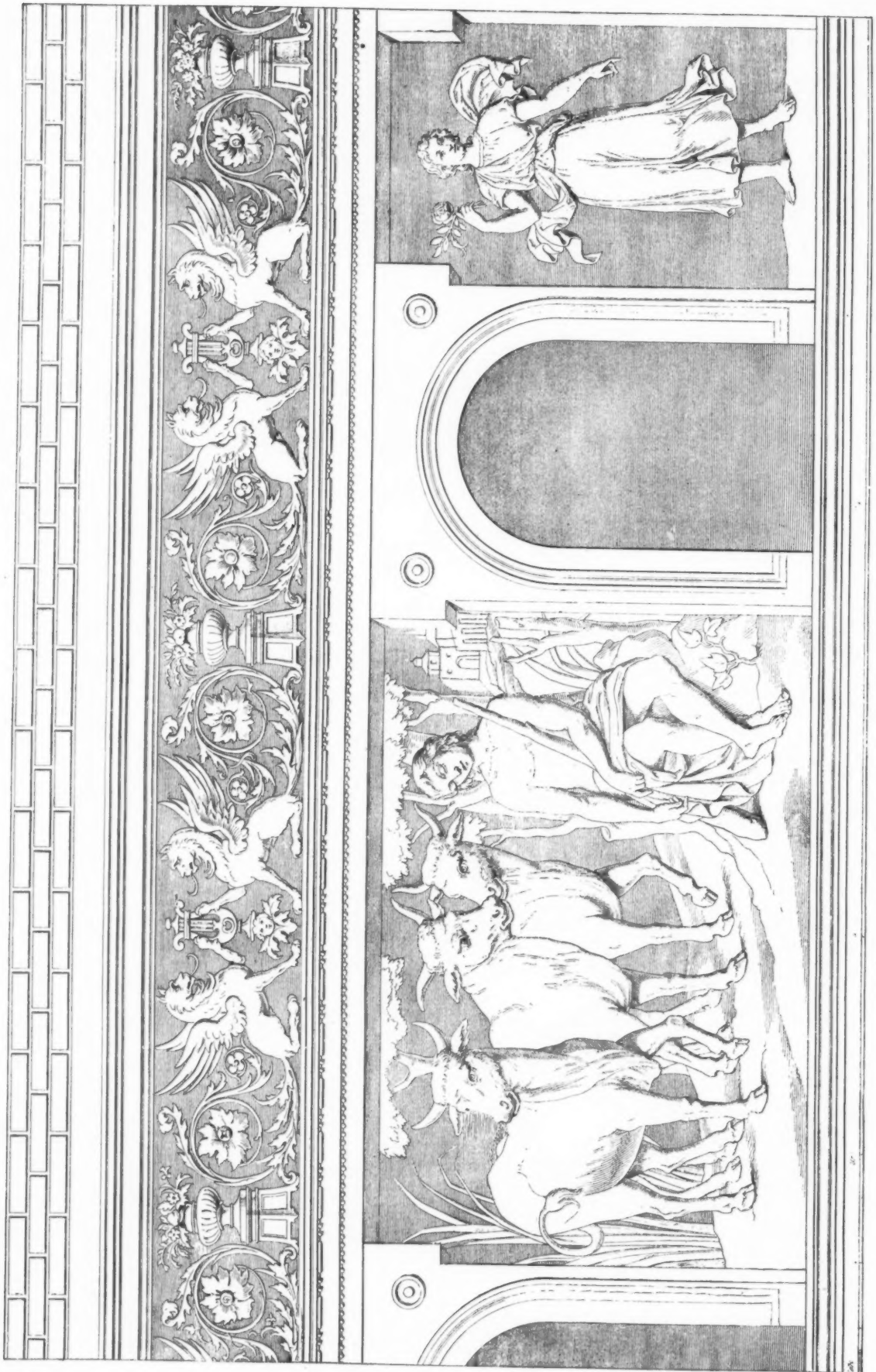
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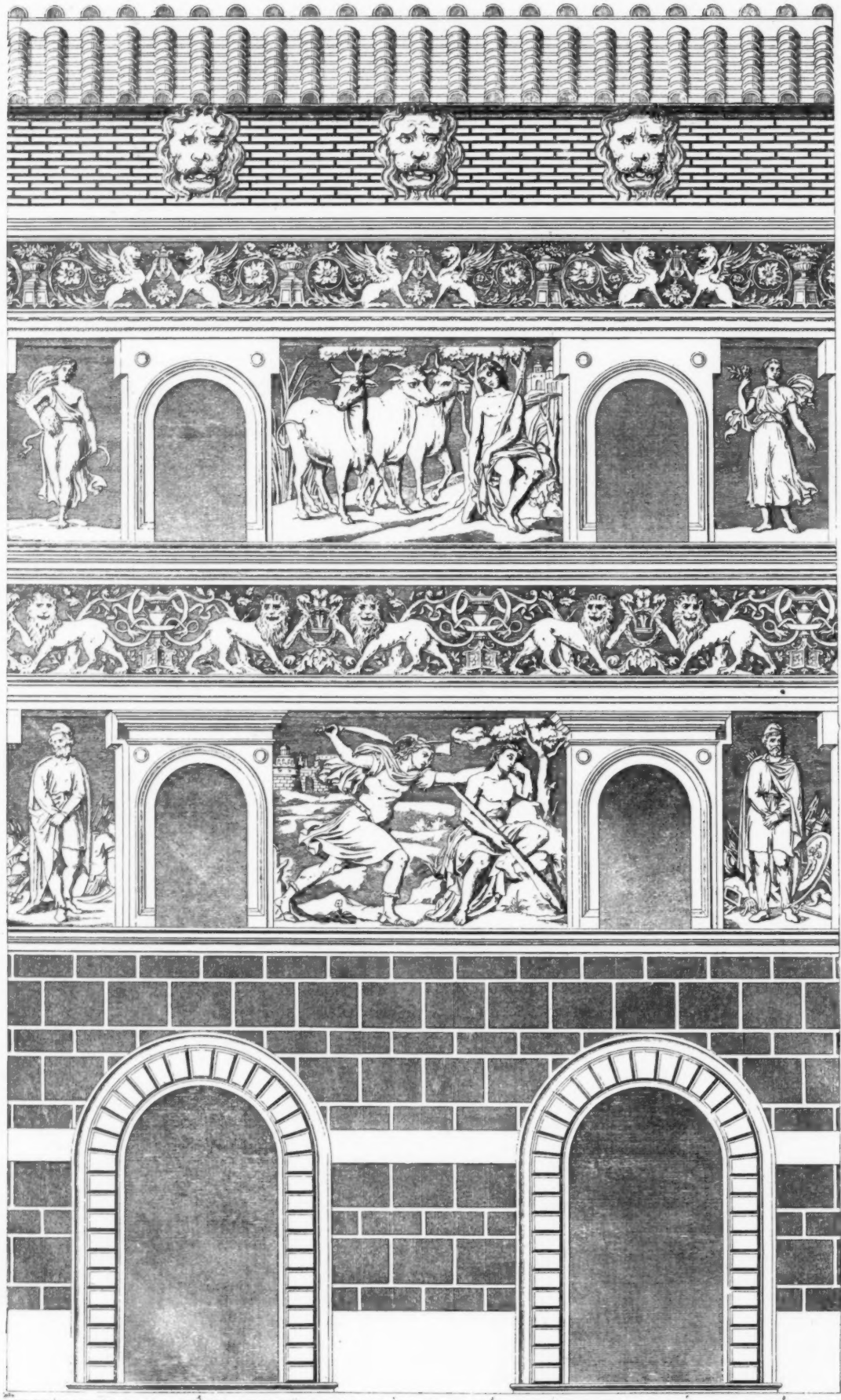
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land, 2A Beacon St., Boston.

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frame dwelling, 30' x 42', hip roof; own., M. J. O'Keefe,
25 Beaver St.; bld., Frank L. Pitman; arch., J. C.
Foster.

Rantoul St., three-sty frame store and lodging-
house, 35' x 50', flat roof, furnace and steam; \$6,000;
own., Joseph Appleton; arch., W. H. Hunt, 209
Essex St.; not let.

Sheridan, Pa. - Two-sty and attic frame dwell.;
own., A. Stafford; arch., C. L. Phillips, 108 Fourth
Ave., Pittsburgh.

St. Louis, Mo. - Two-sty brick dwell., 622 Bates St.;
\$4,700; own., H. Brauer; bld., Klutho & Boeke.
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000; own., N. E. Telephone and Telegraph Co.; bld.,
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Long Island City, N. Y. - Borden Ave., Nos. 7-9,
three-sty brick and stone office-building, 46' x 190';
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23, one-sty frame stable, 18' x 24', pitch roof; \$600;
own. and bld., J. N. Wills, Roslindale.

Brookline, Mass. - Winchester St., one-sty frame
stable, 36' x 36', hip roof; \$3,500; own., H. W.
Fisher, 107 Winchester St.; bld., John S. Ourish,
Roslindale.

Chicago, Ill. - M. M. Bruhn, two-sty private brick
barn, 1994 West Adams St.; \$1,000.

Everett, Mass. - Hatch St., one-and-one-half-sty
frame stable, 24' x 24', pitch roof; \$1,200; own., E.
J. Card, 3 Hatch St.; bld., C. F. Kittredge.

Malden, Mass. - Salem St., one-sty frame stable;
\$500; own., Fred C. Hill, 13 Prescott St.; bld., H.
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Medford, Mass. - Dearborn and Adams Sts., one-
and-one-half-sty frame stable, 24' x 24', pitch roof;
own. and bld., F. A. Harmon.

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Brooklyn, N. Y. - Franklin Ave., e s, 63' n St.
Mark's Ave., four-sty brick store and dwell., 20' x
68', tin roof; \$7,500; own., B. Parnhagen, 655
Franklin Ave.; arch., A. L. Beasley, 129 Chauncey
St.; bld., S. R. Good, 520 Macon St.

Myrtle Ave., w s, 31' 6" n Himrod St., 3 three-sty
brick store and dwell., 23' x irregular, tin roofs;
\$15,000; own., Alex. F. Wacker, 302 Myrtle Ave.;
arch., W. B. Wills, 17 Troutman St.

Cropley Ave., e s, 41' 6" s Bay 20th St., 2 three-
sty brick stores and dwells., 38' 6" x 63' 9" and 20'
x 60', tin roofs; \$8,000; own., Hugh Stewart, Ful-
ton and Bridge Sts.; arch., I. B. Ellis, 186 Remsen
St.

Glenmore Ave., s s cor. Atkins Ave., three-sty
frame store and dwell., 25' x 62', tin roof; \$5,000;
own., Wm. H. Brembacher, 1205 Gates Ave.; arch.,
Chas. Infanger, 2590 Atlantic Ave.; bld., E. Satter-
lein, 11 Russell Pl.

Grove St., s s, 100' w Hamburg Ave., 4 three-sty
frame stores and dwells., two 17' x 62', two 25' x 62',
tin roofs; \$18,000; own. and bld., Deinbart Bros.,
767 Hart St.; arch., Geo. Acker, 782 Broadway.

Bushwick Ave., e s, 75' s Cook St., four-sty brick

BUILDING INTELLIGENCE.

(Stores Continued.)

store and dwell., 25' x 62', tin roof; \$9,000; own. and
bld., George Dietrich, Lebowitz & May, 748 Flush-
ing Ave.; arch., Frank Holmberg, 911 Broadway.

New York, N. Y. - Bleeker St., 75' e Wooster St.,
2 eight-sty brick stores and lofts, 60' x 120'; \$274-
000; own., Henry S. Wood, 120 West 41st St.; arch.,
Fred T. Camp, 114 Nassau St.

Philadelphia, Pa. - Chestnut St., No. 1208, nine-sty
and basement brick, stone and iron store and office-
building, 24' x 230', slate roof; own., Hamilton &
Diesinger, Chestnut and Sansom Sts.; con., George
W. Payne, 401 South Juniper St.; arch., Frank R.
Watson, 518 Walnut St.

TENEMENT-HOUSES.

Boston, Mass. - Pitts St., No. 1, Ward 8, five-sty
brick tenement, 29' x 37', flat roof, stoves; \$7,000;
own., F. Sessa; arch., West & Granger.

Charter St., No. 74, Ward 6, five-sty brick tene-
ment, 34' x 44' x 100', flat roof, stoves; own. and
bld., Morris Gutlin.

Buffalo, N. Y. - West Ave., s w cor. Hampshire
St., three-sty brick store and tenement-building,
50' x 81'; \$20,000; own., W. L. Albee.

Mohawk St., w Ellicott St., four-sty brick tene-
ment, 32' x 58'; \$18,000; own., Henry G. Davis.

South Division St., w Jefferson St., three-sty
brick flats, 22' x 67'; \$5,000.

Whitney Pl., e Carolina St., three-sty brick tene-
ment, 32' x 76'; \$8,000; own., Charles T. Rowe.

Salem, Mass. - Salem St., four-sty frame tenement
of 8 flats, 50' x 50', flat roof, stoves; \$6,000; own.,
Charles Burnent, 41 Palmer St.; bld., J. L. Italian.

WAREHOUSES.

Minneapolis, Minn. - Pike & Cook secured general
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MISCELLANEOUS.

Baltimore, Md. - One-sty stone boiler-house, 36' x
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Boston, Mass. - Marginal St., nr. Jeffrey St., Ward
2, two-sty frame machine-shop, 75' x 100', flat roof,
steam; \$6,000; own. and bld., J. H. Long, 164 High
St.; arch., J. C. Spofford.

Buffalo, N. Y. - Fulton St., Nos. 46-54, brick and
frame mill and elevator, 73' x 161'; \$45,000; own.,
E. Ellsworth & Co.; arch., Lansing & Buiri.

Chicago, Ill. - City of Chicago, one-sty brick public
bath-house, 3823-25 Wentworth Ave.; \$12,000.

P. C. C. and St. Louis Ry. Co., six-sty brick ele-
vator, Leavitt St., bet. 56th and 58th Sts.; \$60,000.

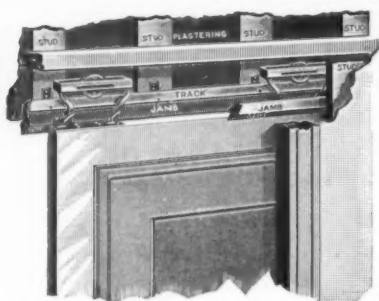
Philadelphia, Pa. - Haverford and Forty-fourth
Sts., three-sty brick Shelter for Colored Orphans;
arch., Walter Smedley, 435 Chestnut St.

South and Fourth Sts., two-sty iron and brick
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PROPOSALS.

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Treasury Department, Office Supervising Architect, Washington, D. C., September 30, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 27th day of October, 1896, and opened immediately thereafter, for all the labor and materials required for an external drainage ditch in the United States Court-house, Custom-house and Post-office building at Omaha, Neb., in accordance with the drawing and specification, copies of which may be had at this office or the office of the Superintendent at Omaha, Neb. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for External Drainage Ditch for the United States Court-house, Custom-

PROPOSALS.

house and Post-office at Omaha, Neb., and addressed to WM. MARTIN AIKEN, Supervising Architect. 1086

HOSPITAL FOR INSANE. [At Verona, N. J.] Proposals are wanted until October 20, for Essex County Hospital for the Insane. Address C. W. HELLMAN, Chairman of Committee on Public Buildings, Essex County Court-house, Newark. 1086

LIGHT-HOUSE. [At New Bedford Harbor, Mass.] Proposals are wanted until November 9, for Butler Flats Light Tower. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

Treasury Department, Office Supervising Architect, Washington, D. C., September 28, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 25th day of October, 1896, and opened immediately thereafter, for all the labor and materials re-

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quired for the stone and brickwork, roof-covering and interior finish above second story (except plumbing, gas-piping, heating apparatus, elevators and electric-wiring) of the United States Appraiser's Warehouse at New York, N. Y., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at New York, N. Y. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids or to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Stone and Brickwork, Roof-covering and Interior Finish, etc., for the United States Appraiser's Warehouse at New York, N. Y.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1085

JAIL.

[At Atlanta, Ga.]

NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA.

Sealed proposals will be received at this office until 12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 93 Peachtree Street.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 25 per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blanks furnished by the engineer, and enclosed in envelope, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ, Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

C. A. COLLIER, Chairman,

FORREST ADAIR,

JOSEPH THOMPSON,

WALTER R. BROWN,

JACK J. SPALDING,

Commissioners of Roads and Revenues, Fulton County, Georgia.

FORREST ADAIR, Chairman,

WALTER R. BROWN,

JACK J. SPALDING,

Committee on Public Buildings.

A. L. KONTZ, Clerk, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

Treasury Department, Office Supervising Architect, Washington, D. C., September 28, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 23d day of October, 1896, and opened immediately thereafter, for all the labor and materials required for the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Post-office, Court-house and Custom-house building at Newbern, N. C., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Newbern, N. C. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Heating and Ventilating Apparatus for the United States Post-office, Court-house and Custom-house building at Newbern, N. C.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1085

Treasury Department, Office Supervising Architect, Washington, D. C., September 25, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 28th day of October, 1896, and opened immediately thereafter, for all the labor and materials required for the interior finish of basement, first story, etc., of the United States Post-office, Washington, D. C., in accordance with drawings and specification. Copies of which may be had at this office or the office of the Superintendent at Washington, D. C. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked, "Proposal for the Interior Finish, etc., for the United States Post-office, Washington, D. C.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1085

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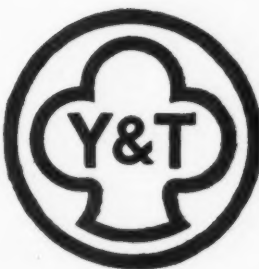


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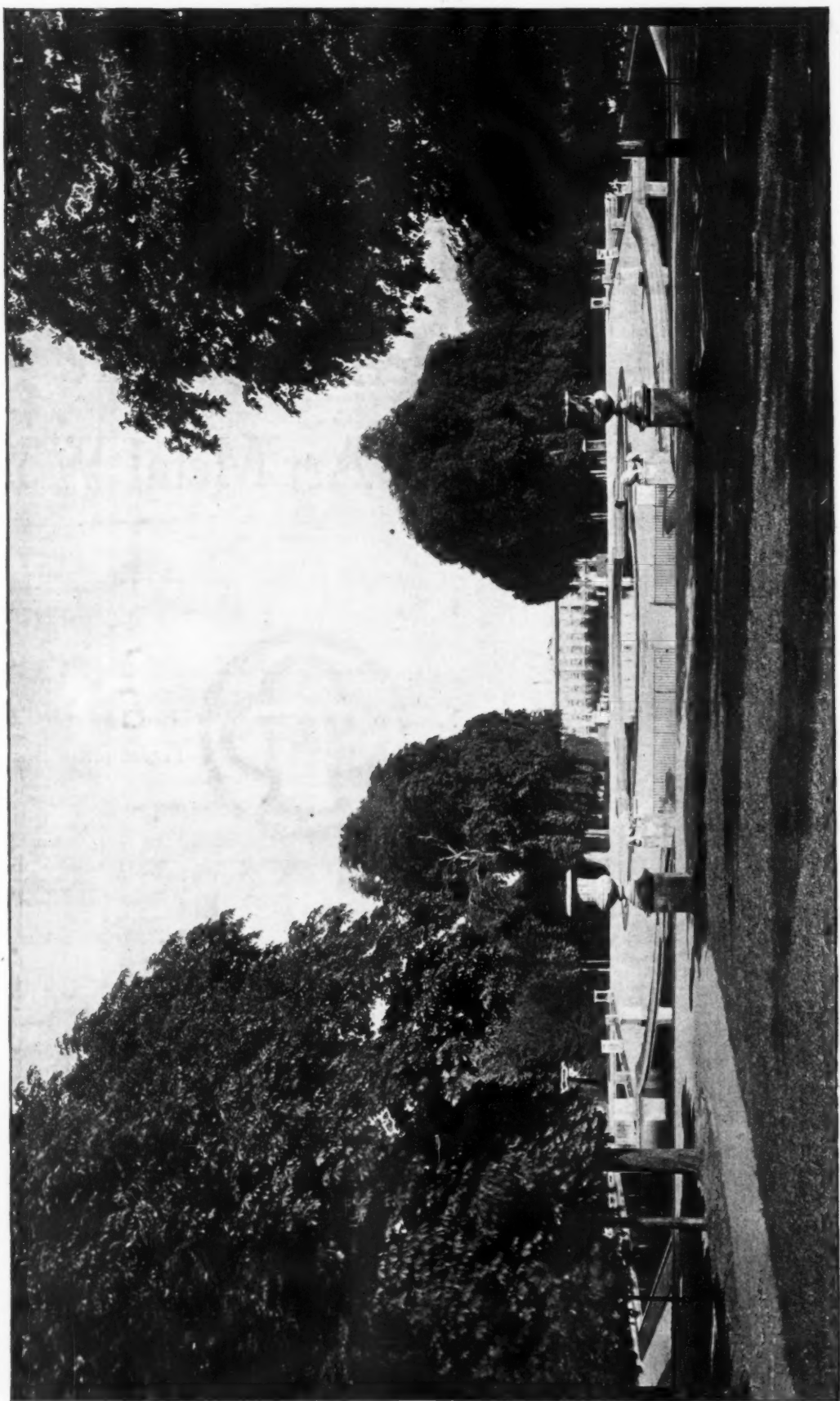
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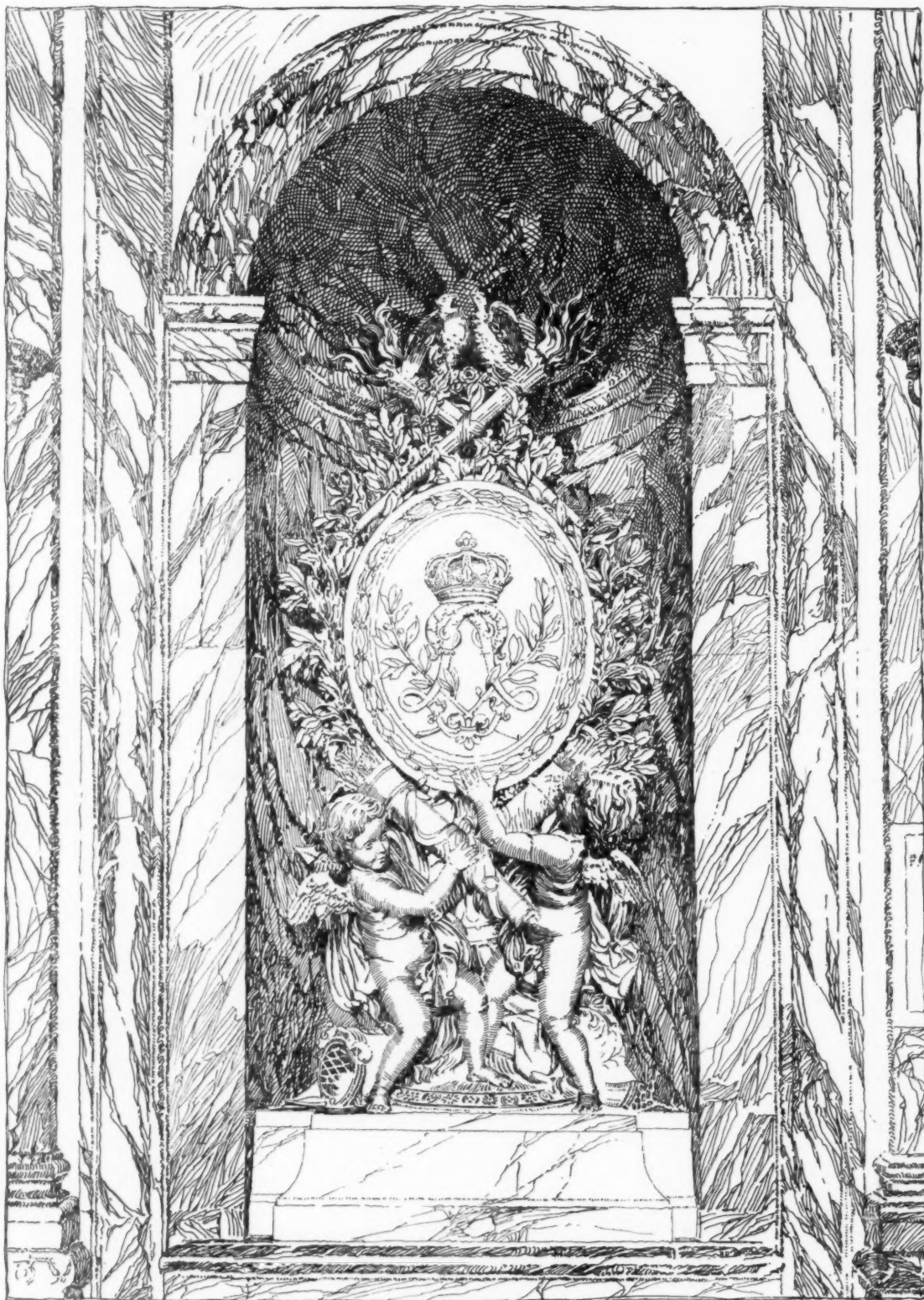
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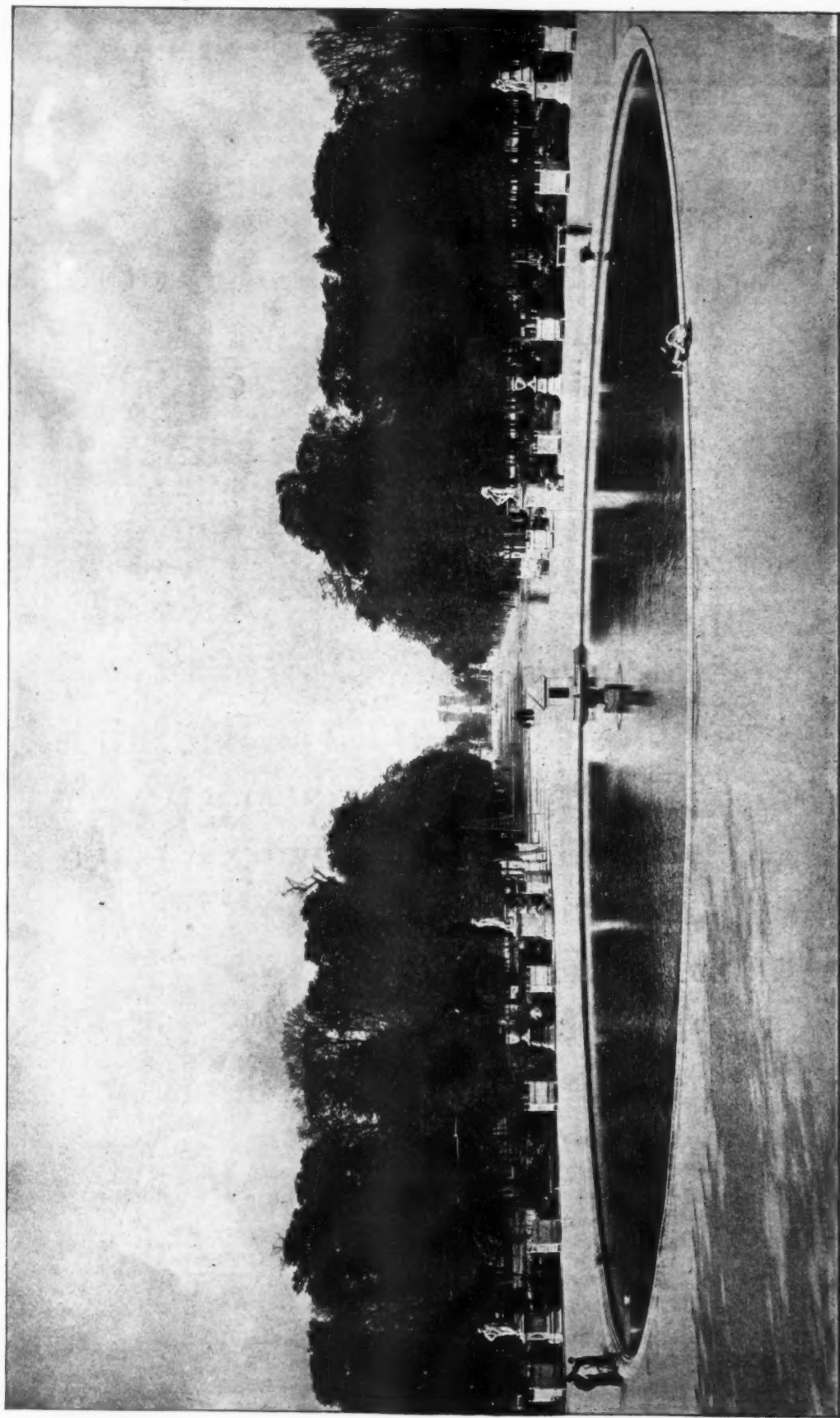


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(Stables Continued.)

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stable, 36' x 71', flat roof; \$1,800; own., J. Robbins
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frame stable; own., J. Hadden; con., J. G. Gaulin.
Main St., one-and-one-half-st'y frame stable;
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WAREHOUSES.

Worcester, Mass. - Main St., four-st'y brick ware-
house; own., M. D. Gilman; con., J. H. Bishop &
Co.; arch., Carleton & Cutting.

MISCELLANEOUS.

Chicago, Ill. - C. & N. P. Ry. Co., one-st'y brick
round-house, 46th and Taylor Sts.; \$28,000.
M. Stenen, six-st'y brick brewery, 174-182 Cly-
bourn Ave.; \$25,000.
Geo. L. Pfeiffer, two-st'y brick club-house, 1168
West 12th St.; \$20,000.Highlands, Ky. - Frame bowling-alley, 33' x 110';
\$5,000; own., Weidemann Brewing Co.; arch., Des
Jardins & Hayward, Cincinnati, O.

COMPETITIONS.

SOCIETY OF BEAUX-ARTS ARCHITECTS
YEAR 1896-97.

[PROGRAMME A.]

COMPETITION NO. 1.

The Committee on Education proposes as a subject
for competition, "A Country Inn."

JACKSON ARCHITECTURAL IRON WORKS,

ESTABLISHED 1840.

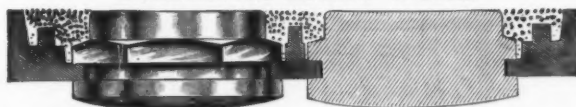
IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape
Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures,
Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts. Office, 315 East 28th St., New York.

DAUCHY IRON WORKS

PRISMATIC LIGHT WORK



34 to 92 Illinois Street

ROSS PATENT LIGHT

CHICAGO

COMPETITIONS.

The Inn is to be situated on a road which is the
main artery of travel between two Cities, and which
is constantly used by bicyclists, riders, drivers,
pedestrians and other pleasure-seekers.The Inn faces on this road, and will be located be-
tween the road and a lake, and is intended to furnish
not only shelter and refreshments, but also varied
means of entertainment for a considerable crowd.

REQUIREMENTS.

First Story - Entrance-hall, Staircase-hall, Main
Stairs, Service Stairs, Coat and Parcel Room, Public
Dining-room, six Private Dining-rooms, two or three
Serving-rooms, Billiard-room, Café, Smoking-room
and Men's Toilet.Second Story - Ladies' Parlor with Toilet and
Dressing-rooms, five or six Bedrooms with Drawing-
rooms and Toilet-rooms.The Servants' Rooms can be provided on this story
or in the attic, if desired.Basement - Kitchen, Scullery, Servants' Dining-
room, Hot and Cold Baths and Showers, Bowling-
alleys.Grounds - Boat-house, Stables, Sheds for Carriages
and Bicycles, General Repair Shop.The largest dimension of the building should not
exceed 120 feet.The dimensions of the grounds should not exceed
300 by 600 feet, including such portion of the lake as
will be shown on the drawings.This problem should be treated in a light and
attractive way, with verandas, terraces, arbors and
other similar features.The treatment of the grounds should be inviting in
its character, and should be carefully studied with
that end in view.A sketch on tracing-paper of the plan of the first
floor of the building and of the grounds, at a scale of
1-16" to the foot, and a similar sketch of the elevation
and section of the main building, at a scale of 1/4" to
the foot, will be required of all students intending
to compete, and should be mailed on or before October
26th, addressed to Mr. Albert L. Brockway, Chair-
man, 55 Broadway, New York City.For the finished drawings there will be required a
plan of the first floor, including grounds, also a plan
of the basement and of the second story, all three at
a scale of 1/8" to the foot; elevation and section at a
scale of 1/4" to the foot.The drawings are to be rendered in water-color,
mounted on stretchers, and forwarded on or before
the 15th of January, 1897, to W. S. Budworth & Son,
424 West 52d Street, New York City. Expressage
prepaid.Albert L. Brockway, Chairman,
John M. Carrere,
John G. Howard,
Whitney Warren,
E. L. Masqueray.

Committee on Education.

New York, October 15, 1896.

Dates of competitions for the year 1896-97: - Pro-
grammes will be issued October 15, 1896, January 15,
1897, April 15, 1897.Drawings will be rendered January 15, 1897, April
15, 1897, June 30, 1897.All announcements relating to the competitions
will be published in the American Architect.NOTE. - This competition is restricted to students
having obtained a medal, one First or two Second
Mentions in any of the competitions held heretofore,
and to all students of any of the Colleges.The Committee on Education will make exceptions
in favor of students wishing to enter a competition
in this class, upon application from the student
endorsed by his Professor, to the effect that the stu-
dent is capable of doing the work in this class advan-
tageously.

[PROGRAMME B.]

COMPETITION NO. 1.

The Committee on Education proposes as a subject
for competition, "A Well by the Road-side."The well will be located on the side of a road much
frequented by bicyclists, and will be surrounded by a
small square or park, ornamented with flowers, seats,
etc.On the same grounds will be located a covered
portico, affording shelter to travellers, in case of
rain.A watering-trough for horses will also be included
in the general scheme.The introduction of a simple Classic order in the
design of the portico is recommended, and an import-
ant detail of the same, one-quarter full size, should

COMPETITIONS.

be made one of the principal features of the finished
drawings; special care being given to the character,
proportions, drawing, and rendering of the same.The largest dimension of the grounds will not ex-
ceed 50 feet.A scale drawing on tracing-paper of the plan and
elevation at a scale of 1/4" to the foot, will be required
of all students intending to compete, and should be
mailed on or before October 26th, and addressed to
Mr. Albert L. Brockway, Chairman, 55 Broadway,
New York City.For the finished drawings there will be required a
plan of the building and grounds, at a scale of 1/8" to
the foot, an elevation and section at the scale of 1/4"
to the foot, with one detail of the portico order, one-
quarter of the full size.These drawings are to be rendered in water-color,
mounted on stretchers, and forwarded on or before
the 15th of January, 1897, to W. S. Budworth & Son,
424 West 52d Street, New York City. Expressage
prepaid.Albert L. Brockway, Chairman,
John M. Carrere,
John G. Howard,
Whitney Warren,
E. L. Masqueray.

Committee on Education.

New York, October 15, 1896.

Dates of competitions for the year 1896-97: - Pro-
grammes will be issued October 15, 1896, January 15,
1897, April 15, 1897.Drawings will be rendered January 15, 1897, April
15, 1897, June 30, 1897.All announcements relating to the competitions
will be published in the American Architect.NOTE. - This competition is open to all students of
architecture, conditions of judgment and jury to be
arranged by the Committee.

PROPOSALS.

Treasury Department, Office Supervising Architect,
Washington, D. C., October 7, 1896. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 5th day of November, 1896, and opened imme-
diately thereafter, for all the labor and materials
required for the erection and completion (except
heating apparatus) of the United States Post-office
and Custom-house building at New London, Conn., in
accordance with the drawings and specification, copies
of which may be had at this office or at the office of
the Superintendent at New London, Conn. Each bid
must be accompanied by a certified check for a sum
not less than 2% of the amount of the proposal. The
right is reserved to reject any or all bids and to waive
any defect or informality in any bid, should it be
deemed in the interest of the Government to do so.
All proposals received after the time stated will be
returned to the bidders. Proposals must be enclosed
in envelopes, sealed and marked "Proposal for Erec-
tion and Completion (Except Heating Apparatus) of
the United States Post-office and Custom-house at
New London, Conn.," and addressed to WM. MARTIN
AIKEN, Supervising Architect. 1087

STATE-HOUSE.

[At Boston, Mass.]

Proposals are wanted until October 30, for the
general work, steel construction for the dome, heat-
ing and ventilation, and electric-wiring for the Bul-
finch State-house. Plans, etc., at office of Arthur G.
Everett, Architect, Bulfinch State-house. Address
STATE-HOUSE CONSTRUCTION COMMISSION-
ERS, 27 Mt. Vernon St., as above. 1087

COURT-HOUSE EXTENSION.

[At Lancaster, Pa.]

Proposals are wanted until October 31, for exten-
sion to Lancaster County Court-house. Address
COUNTY COMMISSIONERS, as above. 1087

AMBULANCE STATION, ETC.

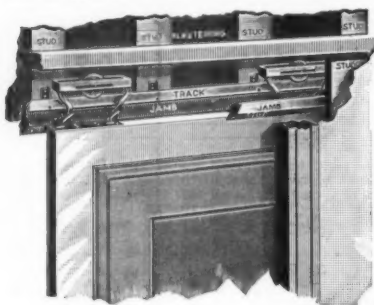
[At New York, N. Y.]

Proposals are wanted until October 20, for ambu-
lance station and vaccine laboratory on 17th St.
Address HEALTH DEPARTMENT, Criminal Court
Building, as above. 1086

SCHOOL-HOUSE.

[At Cincinnati, O.]

Proposals are wanted until October 26, for cut-
stone and carpenter-work of 18-room school-house in
Cumminsville, also for 12-room school-house in Avon-
dale. Address JACOB E. CORMAN, Chairman of
Committee of Board of Education, as above. 1086



STEARNS STEEL PARLOR DOOR HANGER

In the result of a twenty-year search for a perfect hanger The Stearns Hanger is of the single track, anti-friction type; principal parts of steel; perfect alignment; noiseless. Each hanger independently adjustable. Arranged in one-third the time required by others.

SEND FOR CIRCULAR AND PRICE-LIST.

E. C. STEARNS & CO., SYRACUSE, N. Y.

PROPOSALS.

HEATING AND VENTILATING.

[At Cincinnati, O.]
Proposals are wanted until October 26, for heating and ventilating eighteen-room school-house in Pendleton. Address JACOB E. CORMANY, Chairman of Committee of Board of Education, as above. 1086

ADMINISTRATION BUILDING.

[At Athens, O.]
Proposals are wanted until October 26, for administration building and steam-heating plant. Address J. M. WELCH, Chairman Building Committee, Ohio University, as above. 1086

LIGHT-HOUSE.

[At New Bedford Harbor, Mass.]
Proposals are wanted until November 9, for Butler Flats Light Tower. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

JAIL.

[At Atlanta, Ga.]
NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA.
ATLANTA, GA., September 19, 1896.
Sealed proposals will be received at this office until

PROPOSALS.

12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 93 Peachtree Street.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 2½ per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blank furnished by the engineer, and enclosed in envelope, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ,

Lorillard Refrigerator.

For Hotels, Institutions, Families, etc.

The new glass lining is recommended by Sanitary Experts and Architects.

25% to 40% saving on ice bills.

Lorillard Refrigerator Co.,
1168 Broadway, New York, N. Y.

PROPOSALS.

Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

C. A. COLLIER, Chairman,
FORREST ADAIR,
JOSEPH THOMPSON,
WALTER R. BROWN,
JACK J. SPALDING,

Commissioners of Roads and Revenues, Fulton County, Georgia.

FORREST ADAIR, Chairman,
WALTER R. BROWN,
JACK J. SPALDING,

Committee on Public Buildings.

A. L. KONTZ, Clerk, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

HOSPITAL FOR INSANE.

[At Verona, N. J.]
Proposals are wanted until October 20, for Essex County Hospital for the Insane. Address C. W. HELLMAN, Chairman of Committee on Public Buildings, Essex County Court-house, Newark. 1086

LIGHT-STATION.

[At Boston Harbor, Mass.]
Proposals are wanted until November 5, for buildings of Spectacle Island Light-station. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

Treasury Department, Office Supervising Architect, Washington, D. C., September 30, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 27th day of October, 1896, and opened immediately thereafter, for all the labor and materials required for an external drainage ditch in the United States Court-house, Custom-house and Post-office building at Omaha, Neb., in accordance with the drawing and specification, copies of which may be had at this office or the office of the Superintendent at Omaha, Neb. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for External Drainage Ditch for the United States Court-house, Custom-house and Post-office at Omaha, Neb.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1086

Topographical Index of Advertisers.

[For pagination, see Alphabetical Index on Cover 3.]

CONNECTICUT.

New Britain.
The Stanley Works.....[Wrought-Steel Butts.]
Stamford.
Yale & Towne Mfg. Co.....[Locks.]

DISTRICT OF COLUMBIA.

Washington Patent Agency.....[Patents.]

ILLINOIS.

Chicago.
American Radiator Co.....[Radiators.]
Dauby & Co.....[Vault-Lights.]
Kelly, Thos. & Bro.....[Sanitary Supplies.]
McCully Glass Company.....[Stained-Glass.]
Northwestern Terra-Cotta Co.....[Terra-Cotta.]
Pioneer Fireproof Construction Co.....[Fire-proofing.]
Seely, H. B.....[Fireproof Floor.]
Taylor, J. W.....[Photographs.]
The Winslow Bros. Co.....[Ornamental Iron.]
Tiffany Pressed Brick Co.....[Brick.]
Winslow Bros. Elevator Co.....[Elevators.]

INDIANA.

Bedford.
Bedford Quarries Co.....[Stones.]

Brightwood.

Indianapolis Terra-Cotta Co.....[Terra-Cotta.]

Indianapolis.

Dean Bros.....[Pumps.]
Interior Hardwood Co.....[Hardwood Floors.]
Lilly, Jno. M.....[Mosaic Tiles.]

KENTUCKY.

Louisville.
Snead & Co. Iron Works.....[Iron Work.]

MAINE.

Calais.
New Brunswick Red Granite Co.....[Red Granite.]

Red Beach.

Maize Red Granite Co.....[Red Granite.]

MASSACHUSETTS.

Boston.
Butcher Polish Co.....[Floor Polish.]
Cabot, S.....[Shingle-Stains.]
Dexter Bros.....[Shingle Stains.]
Farquhar's Sons, John.....[Roofers.]
Folsom Snow Guard Co.....[Snow Guards.]
Front & Adams Co.....[Architects' Supplies.]
Gurney Heater Mfg. Co.....[Hot water, etc.]
Habertroth & Son, L.....[Decorators.]
Heliotype Printing Co.....[Art Printing.]
Massachusetts Fan Co.....[Ventilating Fans.]
Moore & Wyman.....[Elevators.]
New England Felt Roofing Works.....[Roofing.]
Samson Cordage Works.....[Sash-Cord.]

MASSACHUSETTS.

Spaulding Print Paper Co.....[Blue Prints.]
Waldo Bros.....[Masons' Supplies.]
Whitaker Machine Co.....[Elevators.]
Worthington, F. O.....[Cast Wrought-iron.]

Clinton.

Clinton Wire Cloth Co.....[Metallic Lathing.]

Palmer.

Flynt Building & Construction Co.....[Building Contractors.]

Springfield.

Elektron Mfg. Co.....[Elevators.]

Webster.

Prescott & Son, J. B.....[Wall-tie.]

MARYLAND.

Baltimore.
Baltimore Terra-Cotta Co.....[Terra-Cotta.]
Vaisle & Young.....[Sightlights.]

MISSOURI.

St. Louis.
Hydraulic Press Brick Co.....[Bricks.]
Ludlow Saylor Wire Co.....[Art Metal-Work.]

NEW JERSEY.

Beach Haven.
Sherborne, C. E.....[Perspectives.]

Camden.

Montross Metal Shingle Co.....[Metal Shingles.]

Jersey City.

Dixon Crucible Co. Jos.....[Graphite.]
National Sheet Metal Roofing Co.....[Metal Shingles.]

Newark.

Murphy Varnish Co.....[Varnish.]
Storm Mfg. Co.....[Dumb Waiters.]

Paterson.

Pascia Rolling Mill Co.....[Structural Iron.]

Perth Amboy.

Perth Amboy Terra-Cotta Co.....[Terra-Cotta.]

Trenton.

N. J. Steel & Iron Co.....[Iron.]
New Jersey Wire Cloth Co.....[Metallic Lath.]

NEW YORK.

Brooklyn.
Chrome Steel Works.....[Chrome Steel.]

Irrington-on-Hudson.

Lord & Burnham Co.....[Conservatories.]

New York City.

Aeschlimann & Fellarin.....[Marble Mosaic.]
Allen's Cement Works.....[Cementa.]
American Boiler Co.....[Heating Apparatus.]

NEW YORK.

Armstrong & Co., Maitland.....[Stained-Glass.]
Babcock & Wilcox.....[Boilers.]
Bickelchaupt, G.....[Sightlights.]
Brooks, Shookbridge & Co.....[Cementa.]
Caffall Bros.....[Waterproofing Masonry.]
Clark, Burnett & Co.....[Ceiling Shutters.]
Continental Insurance Co.....[Insurance.]
Dean, E. Eldon.....[Colorist.]
Devroe & Co., F. W.....[Paints.]
Fisher & Co., Robert C.....[Marble.]
Frank, I. F.....[Roofers.]
Galt & Sons, John.....[Roofing Slate.]
Gorton & Lidgerwood Co.....[Boilers.]
Heres, George.....[Metallic Lathing.]
Healing, Bruno.....[Architectural and Decorative Works.]
Mill, George.....[Consulting Engineer.]
Hitching & Co.....[Greenhouses.]
Jackson & Co., Wm. H.....[Grates.]
Jackson Architectural Iron Works.....[Iron Work.]
Jacobson Manufacturing Co.....[Ceiling and Wall Decorations.]
Jenkins Bros.....[Valves.]
Johns Mfg. Co., H. W.....[Refrigerators.]
Jones, T. W.....[Panes.]
Lorillard Refrigerator Co.....[Refrigerators.]
Lowinson Oseai.....[Civil Engineers.]
Maurer & Son, Henry.....[Fireproofing.]
Miller & Coates.....[Bath-Tubs.]
Mott Iron Works, J. L.....[Bath-Tubs.]
National Wood Mfg. Co.....[Bath-Floors.]
Neuchatel Asphalt Co.....[Asphalt.]
N. Y. Architectural Terra-Cotta Co.....[Terra-Cotta.]
New York Mastic Works.....[Asphalt.]
N. Y. Metal Ceiling Co.....[Metal Ceilings.]
Okonite Co. (Ltd.).....[Insulated Wire.]
Ostrander & Co., W. B.....[Associators.]
Otis Bros. & Co.....[Elevators.]
Pitt, W. R.....[Folding-Gates.]
Raritan Hollow & Porous Brick Co.....[Fireproofing.]
Sargent & Co.....[Builders' Hardware.]
Smith Co., H. B.....[Steam Heats.]
Stinch & Co., Edward.....[Furnaces.]
Thiele, E.....[Portland Cement.]
United States Mineral Wool Co.....[Mineral Wool.]
Van Hook & Co., J. B.....[Lumber.]
Williams, John.....[Wrought Metal.]
Wilson, Jas. G.....[Rolling-Shutters.]
Worthington, Henry R.....[Pumps.]

Port Chester.

Mertz's Sons, George.....[Art Mouldings.]

Potsdam.

Potsdam Red Sandstone Co.....[Building Stone.]

Poughkeepsie.

Lane Bros.....[Door Hangers.]
Mitchell Heater Co.....[Heating Apparatus.]

Rochester.

Cutler Mfg. Co.....[Mail Chutes.]
Graves Elevator Co.....[Elevators.]
Wood-Mosaic Co.....[Hardwood Floors.]

NEW YORK.

Schenectady.
General Electric Co.....[Electrical Equipments.]

Syracuse.

Stearns & Co., E. C.....[Parlor Door Hangers.]

Troy.

Globe Ventilator Co.....[Ventilators.]
Troy Laundry Machinery Co.....[Washing Machines.]

OHIO.

Cleveland.
Brooks, T. H. & Co.....[Sidelight Lights.]
Cudell, F. E.....[Traps.]
Van Wagner & Williams Hardware Co.....[Spring Hinges.]

Toledo.

Tobey Water-meter & Mfg. Co.....[Automatic Water-meter.]

PENNSYLVANIA.

Ambler.
Kearney & Mattison Co.....[Magnesia Coverings.]

Bangor.

Bangor Roofing Slate Mfrs. Assn.....[Roofing Slate.]

Easton.

Bangor Excelsior Slate Co.....[Roofing Slate.]

Harrisburg.

Harrisburg F'n'dy & Machine W'ks.....[Engines.]

Philadelphia.

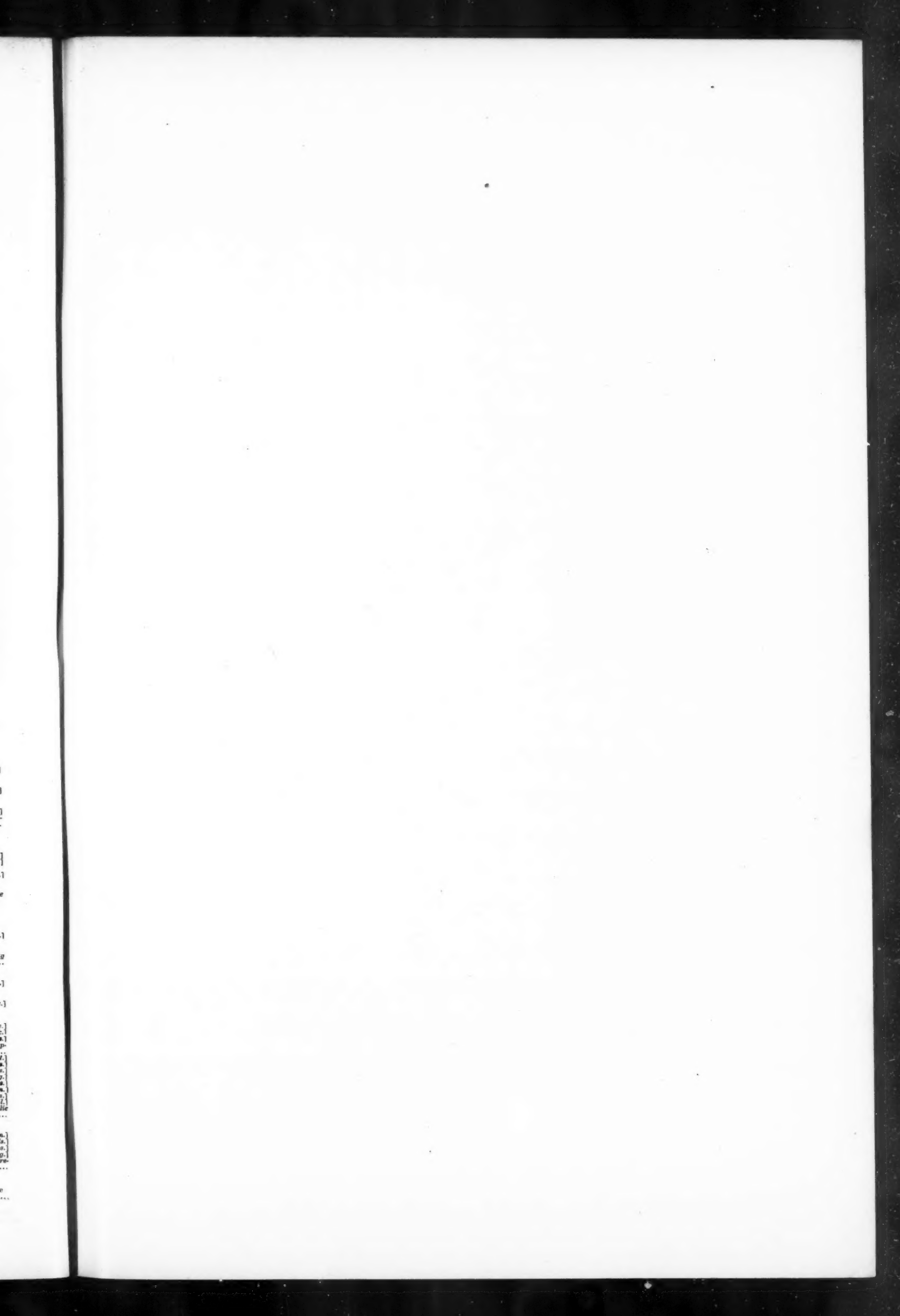
Baily & Truscott.....[Architects.]
Belmont Iron Works.....[Ironwork.]
French & Co., Samuel H.....[Marble Colors.]
Haines, Jones & Cadbury Co.....[Plumber's Supplies.]
Hall & Co., Edwin.....[Cementa.]
Jarden Brick Co.....[Bricks.]
Manning, W. T.....[Filters.]
Merchant & Co.....[Tin Roofing.]
More, Williams & Co.....[Elevators.]
Phoenix Iron Co.....[Structural Iron.]
Taylor Co., N. & G.....[Tin.]
Thorn, J. S. Co.....[Sheet Metal.]
Thorn Shingle & Ornament Co.....[Metallic Shingles.]

Pittsburgh.

Apollo Iron and Steel Co.....[Galvanized Iron.]
Follansbee Bros. Co.....[Roofing Materials.]
Miller Co., W. Gordon.....[Traps.]
Northrop & Co., A.....[Metal Ceilings.]
Pittsburgh Terra-Cotta Lumber Co.....[Fire-proofing.]

Scranton.

International Correspondence Schools, The.....[Architecture.]



EDITORIAL SUMMARY.
HISTORY OF THE UNITED STATES CAPITOL. - VIII.
LETTER FROM LONDON.
POLAND'S ANCIENT CAPITAL.
COMMUNICATIONS.
NOTES AND CLIPPINGS.

ACCESSORIES OF LANDSCAPE ARCHITECTURE, NO. XXXIII.
(Gothic Print issued with the International and Imperial Editions only.)
CONVENT OF THE SISTERS OF MERCY OF LORETTA, CRESSON,
PA.
ENGINE-HOUSE NO. 14, EAST 18TH STREET, NEW YORK, N. Y.
HOME FOR COLORED ORPHANS, ALLEGHENY, PA.
ETCHES AT NEWPORT, R. I.

PARK BUILDING, PITTSBURGH, PA.
ACCESSORIES OF LANDSCAPE ARCHITECTURE, NO. XXXIV.
A GROUP OF PALACES.

Additional Illustrations in the International Edition

HOUSES IN THE ALTMARKT, STRALSUND, PRUSSIA.
(Gelatine Print.)
SCHLOSS WILLANOW, WARSAW, POLAND.
COMPETITIVE DESIGN FOR NEW WATER-TOWER, HANOVER,
GERMANY.
NEW BUILDINGS IN THE HAYMARKET, LONDON, ENG.
SOME OF THE BUILDINGS OF THE BERLIN EXHIBITION OF 1896.
"LOVE," A STUDY FOR DECORATION.
OLD HOTEL DIEU, COMPIEGNE, FRANCE.
SKETCHES AT SALCOMBE, ENG.
A DOOR-HEAD, LUND, SWEDEN.
DOORWAY TO CHAPEL, PALERMO, SICILY.



are those which are complete in every detail. Fine woodwork should be trimmed with artistic hardware harmonizing in finish and style. Our designs are artistic and suitable for the different styles of architecture. Our well-made and easy-working Locks give satisfaction to all who use them.

Sargent & Company,
Makers of Fine Locks
and Artistic Hardware,
New York; and New Haven, Conn.

APOLLO GALVANIZED IRON.

Who says that one make is as good as another? The jobber who deals in some other make; and the worker whose work is rough, or who does not know Apollo.

**Apollo Iron and Steel Company,
Pittsburgh, Pa.**

Macon, Ga., Dec. 17, 1898.
I have been a subscriber for the last thirteen years, and would miss the weekly visits of this paper very much." P. E. DENNIS, Architect.

It has assisted us, at a moderate cost, in collecting a stock of publications which have assisted us greatly in the pursuit of our profession, and on which we rely a great deal for suggestions.

[Advertisements can be indexed only under a single head free of charge].

[illegible]

The Yale Locks, Builders' Hardware, Art Metal Work.

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Local Offices:

Philadelphia, Boston, Buffalo and San Francisco.

Works: Stamford, Conn., Branford, Conn.

ACCESSORIES OF LANDSCAPE ARCHITECTURE. NO. XXXIV.



LE PRESBYTÈRE [MARIE ANTOINETTE'S COTTAGE], PETIT TRIANON, VERSAILLES, FRANCE.



VANDYKE BROWN, No. 1094,

A particularly rich and pleasing shade of Stain for
shingled walls;

LIGHT SAGE GREEN, No. 96,

A soft and delicate gray-green shade, also for walls,
and

POMPEIIAN RED, No. 1247,

for both roof and wall shingles, are some of the most
popular Special Shades in

CABOT'S CREOSOTE SHINGLE STAINS.

SAMPLES WILL BE SENT ON APPLICATION.

SAMUEL CABOT, Sole Manufacturer,

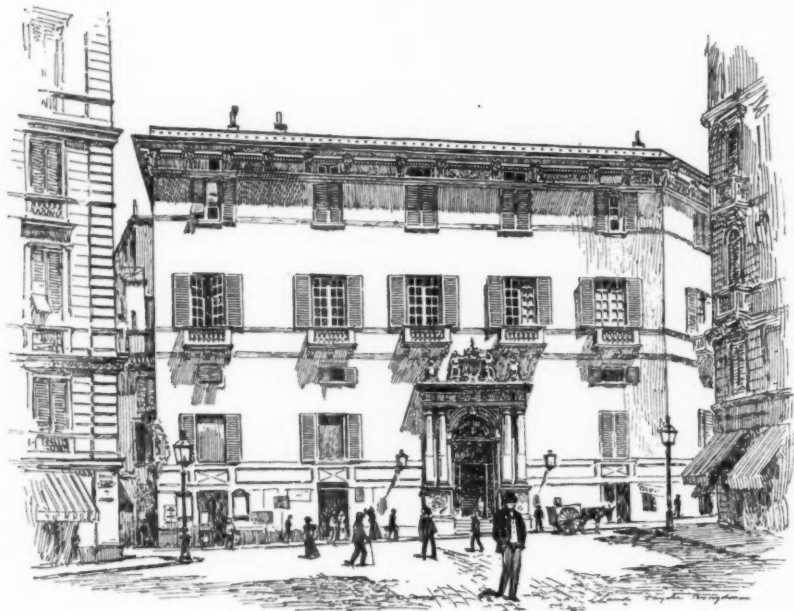
BOSTON, MASS.



The Hofburg, Vienna, Austria.



The Palace, Berlin, Germany.



Palazzo Spinola, Genoa, Italy.



The New Palace, Potsdam, Germany.

PALACES.

POTSDAM RED SANDSTONE



The following extract in a late article by Dr. Wm. H. Wahl, A. M., Ph. D., etc., Secretary of the Franklin Institute, is interesting as giving his opinion of this stone:—

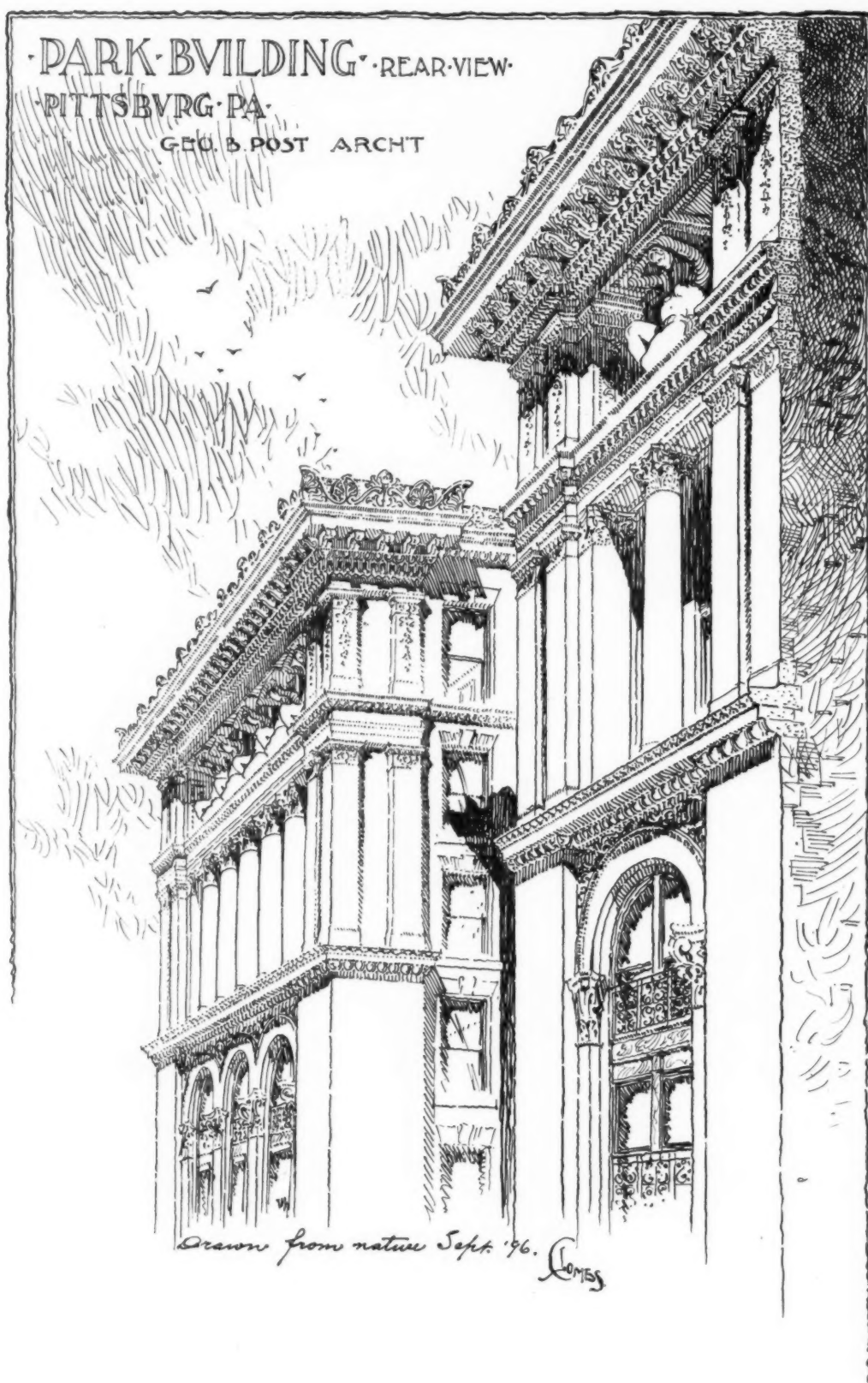
“The stone quarried at Potsdam is of the utmost strength and firmness of texture, being as strong and as capable of resisting crushing strains as any of the granites. In richness and brilliancy of color, it is unsurpassed. Its great density renders it almost absolutely weather-proof, and it is unfading in color, and absolutely unaffected by fire. From these comments it will appear that this remarkable-stone, because of its beauty and extraordinary durability—which last is unquestioned and demonstrated—approximates more closely to the ideal building stone than any other that has thus far been proposed for use in this country, where the conditions of service are so extreme.”



Apply to us for samples, prices and full particulars.

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THE GLOBE VENTILATOR

For perfectly Ventilating
CHURCHES, SCHOOLS, HALLS, MILLS, FACTORIES
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STEEL BEAMS 4 inches
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deep.

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Metallic Roofing Tiles, Building Specialties, Builders'
Light Iron Work of every description.

Nos. 1325 to 1329 Callowhill Street,
PHILADELPHIA, PA.

COMPETITIONS.

Drawings will be rendered January 15, 1897, April
15, 1897, June 30, 1897.
All announcements relating to the competitions
will be published in the *American Architect*.

NOTE.—This competition is restricted to students
having obtained a medal, one First or two Second
Mentions in any of the competitions held heretofore,
and to all students of any of the Colleges.
The Committee on Education will make exceptions
in favor of students wishing to enter a competition
in this class, upon application from the student
endorsed by his Professor, to the effect that the stu-
dent is capable of doing the work in this class advan-
tageously.

[PROGRAMME B.]

COMPETITION NO. 1.

The Committee on Education proposes as a subject
for competition, "A Well by the Road-side."
The well will be located on the side of a road much
frequented by bicyclists, and will be surrounded by a
small square or park, ornamented with flowers, seats,
etc.

On the same grounds will be located a covered
portico, affording shelter to travellers, in case of
rain.

JACKSON ARCHITECTURAL IRON WORKS,

ESTABLISHED 1840.

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Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape
Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures,
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Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts. Office, 315 East 28th St., New York.

DAUCHY IRON WORKS

84 to 92 Illinois Street CHICAGO

ORNAMENTAL
IRON WORK

PRISMATIC
LIGHT WORK

COMPETITIONS.

A watering-trough for horses will also be included
in the general scheme.

The introduction of a simple Classic order in the
design of the portico is recommended, and an import-
ant detail of the same, one-quarter full size, should
be made one of the principal features of the finished
drawings; special care being given to the character,
proportions, drawing, and rendering of the same.

The largest dimension of the grounds will not ex-
ceed 50 feet.

A scale drawing on tracing-paper of the plan and
elevation at a scale of $\frac{1}{4}$ " to the foot, will be required
of all students intending to compete, and should be
mailed on or before October 26th, and addressed to
Mr. Albert L. Brockway, Chairman, 55 Broadway,
New York City.

For the finished drawings there will be required a
plan of the building and grounds, at a scale of $\frac{1}{4}$ " to
the foot, an elevation and section at the scale of $\frac{1}{4}$ "
to the foot, with one detail of the portico order, one-
quarter of the full size.

These drawings are to be rendered in water-color,
mounted on stretchers, and forwarded on or before
the 15th of January, 1897, to W. S. Budworth & Son,
424 West 52d Street, New York City. Expressage
prepaid.

(Signed) ALBERT L. BROCKWAY, Chairman,
JOHN M. CARRERE,
JOHN G. HOWARD,
WHITNEY WARREN,
E. L. MASQUERAY.

Committee on Education.

Dates of competitions for the year 1896-97:—Pro-
grammes will be issued October 15, 1896, January 15,
1897, April 15, 1897.

Drawings will be rendered January 15, 1897, April
15, 1897, June 30, 1897.

All announcements relating to the competitions
will be published in the *American Architect*.

NOTE.—This competition is open to all students of
architecture, conditions of judgment and jury to be
arranged by the Committee.

PROPOSALS.

Treasury Department, Office Supervising Architect,
Washington, D. C., October 20, 1896. Sealed propo-
sals will be received at this office until 2 o'clock P. M.
on the 18th day of November, 1896, and opened im-
mediately thereafter, for all the labor and materials re-
quired for the roof-sheathing, slate and copper-work
of roof, down and drain pipes, roof skylights, etc.,
for the United States Post-office, Court-house and
Custom-house building at St. Paul, Minn., in ac-
cordance with drawings and specification, copies of which
may be had at this office or the office of the Superin-
tendent at St. Paul, Minn. Each bid must be accom-
panied by a certified check for a sum not less than 2%
of the amount of the proposal. The right is reserved
to reject any or all bids and to waive any defect or
informality in any bid should it be deemed in the
interest of the Government to do so. All proposals
received after the time stated will be returned to the
bidders. Proposals must be enclosed in envelopes,
sealed and marked "Proposal for Roof-sheathing,
Slate and Copper-work of Roof, Down and Drain
Pipes, Roof Skylights, etc., for the United States
Post-office, Court-house and Custom-house building
at St. Paul, Minn.," and addressed to WM. MARTIN
AIKEN, Supervising Architect. 1088

PROPOSALS.

HOSPITAL.

[At Newark, N. J.]

Proposals are wanted until November 11, for city
hospital on block bounded by Fairmount Ave., Cam-
den, Bank and Cabinet Sts. Separate bids. Address
L. J. WENDELL, City Clerk, as above. 1088

ELECTRIC-LIGHT PLANT.

[At New York, N. Y.]

Proposals are wanted until November 9, for
electric-light and power plant in court-house and
post-office building. Separate bids. Address SECRE-
TARY OF THE TREASURY, Washington, D. C. 1088

HEATING AND VENTILATING.

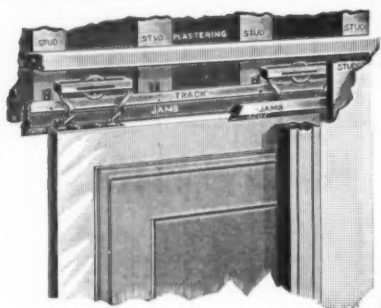
[At Boston, Mass.]

Proposals are wanted until October 26, for heat-
ing and ventilating plant in primary school-house,
Robinson St., Dorchester District. Plans, etc., at
office of A. Warren Gould, 178 Devonshire St. Ad-
dress SECRETARY OF SCHOOL COMMITTEE,
Mason St., as above. 1087

Treasury Department, Office Supervising Architect,
Washington, D. C., October 17, 1896. Sealed propo-
sals will be received at this office until 2 o'clock P. M.
on the 17th day of November, 1896, and opened im-
mediately thereafter, for all the labor and materials re-
quired for the low-pressure, return-circulation,
steam-heating and ventilating apparatus for the
United States Post-office building at Newburgh, N. Y.,
in accordance with the drawings and specification,
copies of which may be had at this office or the office
of the Superintendent at Newburgh, N. Y. Each bid
must be accompanied by a certified check for a sum
not less than 2% of the amount of the proposal. The
right is reserved to reject any or all bids and to waive
any defect or informality in any bid, should it be
deemed in the interest of the Government to do so.
All proposals received after the time stated will be
returned to the bidders. Proposals must be enclosed
in envelopes, sealed and marked "Proposal for the
Heating and Ventilating Apparatus for the United
States Post-office building at Newburgh, N. Y.," and
addressed to WM. MARTIN AIKEN, Supervising
Architect. 1088

Treasury Department, Office Supervising Architect,
Washington, D. C., October 16, 1896. Sealed propo-
sals will be received at this office until 2 o'clock P. M.
on the 13th day of November, 1896, and opened im-
mediately thereafter, for all the labor and materials re-
quired for the low-pressure, return-circulation,
steam-heating and ventilating apparatus for the
United States Post-office building at Richmond, Ky.,
in accordance with the drawings and specification,
copies of which may be had at this office or the office
of the Superintendent at Richmond, Ky. Each bid
must be accompanied by a certified check for a sum
not less than 2% of the amount of the proposal. The
right is reserved to reject any or all bids, and to waive
any defect or informality in any bid, should it be
deemed in the interest of the Government to do so.
All proposals received after the time stated will be
returned to the bidders. Proposals must be enclosed
in envelopes, sealed and marked, "Proposal for the
Heating and Ventilating Apparatus for the United
States Post-office building at Richmond, Ky.," and
addressed to WM. MARTIN AIKEN, Supervising
Architect. 1088

Treasury Department, Office Supervising Architect,
Washington, D. C., October 14, 1896. Sealed proposals
will be received at this office until 2 o'clock P. M. on



STEARNS STEEL PARLOR DOOR HANGER

Is the result of a twenty-year search for a perfect hanger. The Stearns Hanger is of the single track, anti-friction type; principal parts of steel; perfect alignment; noiseless. Each hanger independently adjustable. Arranged in one-third the time required by others.

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PROPOSALS.

the 30th day of October, 1896, and opened immediately thereafter, for all the labor and materials required for placing intermediate floors, etc., in certain court and office rooms in the United States Court-house and Post-office building, New York, N. Y., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at New York, N. Y. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Intermediate Floors, etc., in the United States Court-house and Post-office building at New York, N. Y.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1087

LIGHT-HOUSE.

[At New Bedford Harbor, Mass.]
Proposals are wanted until November 9, for Butler Flats Light Tower. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

STATE-HOUSE.

[At Boston, Mass.]
Proposals are wanted until October 30, for the general work, steel construction for the dome, heat-

ing and ventilation, and electric-wiring for the Bulfinch State-house. Plans, etc., at office of Arthur G. Everett, Architect, Bulfinch State-house. Address STATE-HOUSE CONSTRUCTION COMMISSIONERS, 27 Mt. Vernon St., as above. 1087

LIGHT-STATION.

[At Boston Harbor, Mass.]
Proposals are wanted until November 5, for buildings of Spectacle Island Light-station. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

JAIL.

[At Atlanta, Ga.]
NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA. ATLANTA, GA., September 19, 1896.

Sealed proposals will be received at this office until 12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 9] Peachtree Street.

PROPOSALS.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 2 1/2 per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blanks furnished by the engineer, and enclosed in envelopes, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ, Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

C. A. COLLIER, Chairman,
FORREST ADAIR,
JOSEPH THOMPSON,
WALTER R. BROWN,
JACK J. SPALDING,
Commissioners of Roads and Revenues, Fulton County, Georgia.

A. L. KONTZ, Clerk, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

Treasury Department, Office Supervising Architect, Washington, D. C., October 7, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 5th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except heating apparatus) of the United States Post-office and Custom-house building at New London, Conn., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at New London, Conn. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Erection and Completion (Except Heating Apparatus) of the United States Post-office and Custom-house at New London, Conn.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1087

COURT-HOUSE EXTENSION.

[At Lancaster, Pa.]
Proposals are wanted until October 31, for extension to Lancaster County Court-house. Address COUNTY COMMISSIONERS, as above. 1087

Topographical Index of Advertisers.

[For pagination, see Alphabetical Index on Cover 3.]

CONNECTICUT.

New Britain.
The Stanley Works.....[Wrought-Steel Butts.]
New Haven.
Fitch Co., The W. & E. T.....[Sash Lock.]

STAMFORD.

Yale & Towne Mfg. Co.....[Locks.]

DISTRICT OF COLUMBIA.

Washington.
Washington Patent Agency.....[Patents.]

ILLINOIS.

Chicago.
American Radiator Co.....[Radiators.]
Dauchy & Co.....[Vault-Lights.]
Kelly, Thos. & Bro.....[Sanitary Supplies.]
McCully Glass Company.....[Stained-Glass.]
Northwestern Terra-Cotta Co.....[Terra-Cotta.]
Pioneer Fireproof Construction Co.....[Fireproofing.]
Seely, H. B.....[Fireproof Floor.]
Taylor, J. W.....[Photographs.]
The Windsor Bros. Co.....[Ornamental Iron.]
Tiffany Pressed Brick Co.....[Brick.]
Winslow Bros. Elevator Co.....[Elevators.]

INDIANA.

Bedford.
Bedford Quarries Co.....[Stone.]

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INDIANAPOLIS.

Dean Bros.....[Pumps.]
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Louisville.
Sneed & Co. Iron Works.....[Iron Work.]

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New Brunswick Red Granite Co.....[Red Granite.]

RED BEACH.

Malise Red Granite Co.....[Red Granite.]

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Moore & Wyman.....[Elevators.]
New England Felt Roofing Works.....[Roofing.]
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Clinton Wire Cloth Co.....[Metallic Lathing.]

PALMER.

Flynt Building & Construction Co.....[Building Contractors.]

SPRINGFIELD.

Elektron Mfg. Co.....[Elevators.]

WEBSTER.

Prescott & Son, J. B.....[Wall-Tie.]

MARYLAND.

Baltimore.
Baltimore Terra-Cotta Co.....[Terra-Cotta.]
Vaile & Young.....[Scaffolds.]

MISSOURI.

St. Louis.
Hydraulic Press Brick Co.....[Bricks.]
Ladlow Saylor Wire Co.....[Art Metal-Work.]

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Beach Haven.
Sherborne, C. E.....[Perspectives.]

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Montrose Metal Shingle Co.....[Metal Shingles.]

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Perth Amboy Terra-Cotta Co.....[Terra-Cotta.]

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Chrome Steel Works.....[Chrome Steel.]

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American Boiler Co.....[Heating Apparatus.]

NEW YORK.

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Bickelhaupt, G.....[Scaffolds.]
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Clark, Runnett & Co.....[Ornating Scaffolds.]
Columbia College.....[School of Architecture.]
Continental Insurance Co.....[Insurance.]
Deane, E. Eldon.....[Colorist.]
Devoe & Co.....[Paints.]
Fisher & Co., Robert C.....[Marble.]
Frink, I. P.....[Reflectors.]
Galt & Sons, John.....[Roofing Slate.]
Gorton & Lidgerwood Co.....[Boilers.]
Hayes, George.....[Metallic Lathing.]
Hessling, Bruno.....[Architectural and Decorative Works.]
Hill, George.....[Consulting Engineer.]
Hitchings & Co.....[Overhausers.]
Jackson & Co., Wm. C.....[Gravels.]
Jackson Architectural Iron Works.....[Iron Works.]
Jacobson Manufacturing Co.....[Ceiling and Wall Decorations.]
Jenkins Bros.....[Valves.]
Johns Mfg. Co., H. W.....[Asbestos.]
Jones, T. W.....[Vases.]
Laird & Rogers.....[Refrigerator Co.]
Lowinson Ocas.....[Civil Engineers.]
Maurer & Son, Henry.....[Fireproofing.]
Miller & Coates.....[Bath-Tubs.]
Mott Iron Works, J. E.....[Bath-Tubs.]
National Wood Mfg. Co.....[Inlaid Floors.]
Neuchatel Asphalt Co.....[Asphalt.]
N. Y. Architectural Terra-Cotta Co.....[Terra-Cotta.]
New York Mastic Works.....[Asphalt.]
Sargent & Co.....[Builders' Hardware.]
Smith Co., H. B.....[Steam Heat.]
Smith & Co., Edward.....[Varnishes.]
Thiele, E.....[Portland Cement.]
United States Mineral Wool Co.....[Mineral Wool.]
Warren Chemical & Mfg. Co.....[Asphalt Roofing.]
Williams, John.....[Wrought Metal.]
Wilson, Jas. G.....[Rolling Shutter.]
Worthington, Henry R.....[Pumps.]

POR CHESTER.

Mertz's Sons, George.....[Art Mouldings.]

POTSDAM.

Potsdam Red Sandstone Co.....[Building Stone.]

POUGHKEEPSIE.

Lane Bros.....[Door Hangers.]
Mitchell Heater Co.....[Heating Apparatus.]

ROCHESTER.

Cutler Mfg. Co.....[Mail Chutes.]
Graves Elevator Co.....[Elevators.]
Wood-Mosaic Co.....[Hardwood Floors.]

NEW YORK.

Schenectady.
General Electric Co.....[Electrical Equipments.]

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Stearns & Co., E. C.....[Parlor Door Hangers.]

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Globe Ventilator Co.....[Ventilators.]
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Kessley & Mattison Co.....[Magnesia Covering.]

BANGOR.

Bangor Roofing Slate Mfrs. Assn.....[Roofing Slate.]

EASTON.

Bangor Excelsior Slate Co.....[Roofing Slate.]

HARRISBURG.

Harrisburg Fndy & Machine Wks.....[Engines.]

PHILADELPHIA.

Baily & Truscott.....[Architects.]
Belmont Iron Works.....[Ironworks.]
French & Co., Samuel H.....[Mortar Colors.]
Haines, Jones & Cadbury Co.....[Plumber's Supplies.]
Hall & Co., Edwin.....[Cement.]
Jarden Brick Co.....[Bricks.]
Manning, W. T.....[Filters.]
Merchant & Co.....[Fire Roofing.]
Morse, Williams & Co.....[Elevators.]
Phoenix Iron Co.....[Structural Iron.]
Taylor Co., S. & G.....[Tin.]
Thorn, J. S. Co.....[Sheet Metal.]
Thorn Shingle & Ornament Co.....[Metallic Shingles.]

PITTSBURGH.

Apollo Iron and Steel Co.....[Galvanized Iron.]
Follanbee Bros. Co.....[Roofing Materials.]
Miller Co., W. Gordon.....[Tin.]
Northrop & Co., A.....[Metal Ceiling.]
Pittsburgh Terra-Cotta Lumber Co.....[Fireproofing.]

SCRANTON.

International Correspondence Schools, The.....[Architecture.]

RESTORATION OF THE CATHEDRAL, FUNFKIRCHEN, HUNGARY.
SUGGESTION FOR THE LONDON COUNTY COUNCIL'S HALL,
CHARING CROSS, LONDON, ENG.
DRINKING-FOUNTAIN, HYDE PARK, LONDON, ENG.
OLD HOUSE AT MAODENBURG, PRUSSIA

London, N.Y., June 8, 1885.
It was assumed by, at a moderate cost, in collecting a stock of publications which have assisted me greatly in the pursuit of our profession, and in which we rely a great deal for suggestions.
McDONALD BROS., Architects.

[illegible]

The Yale & Towne Mfg. Co.

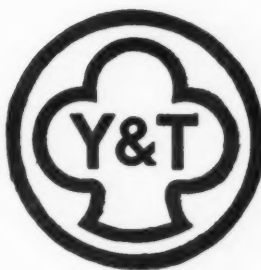


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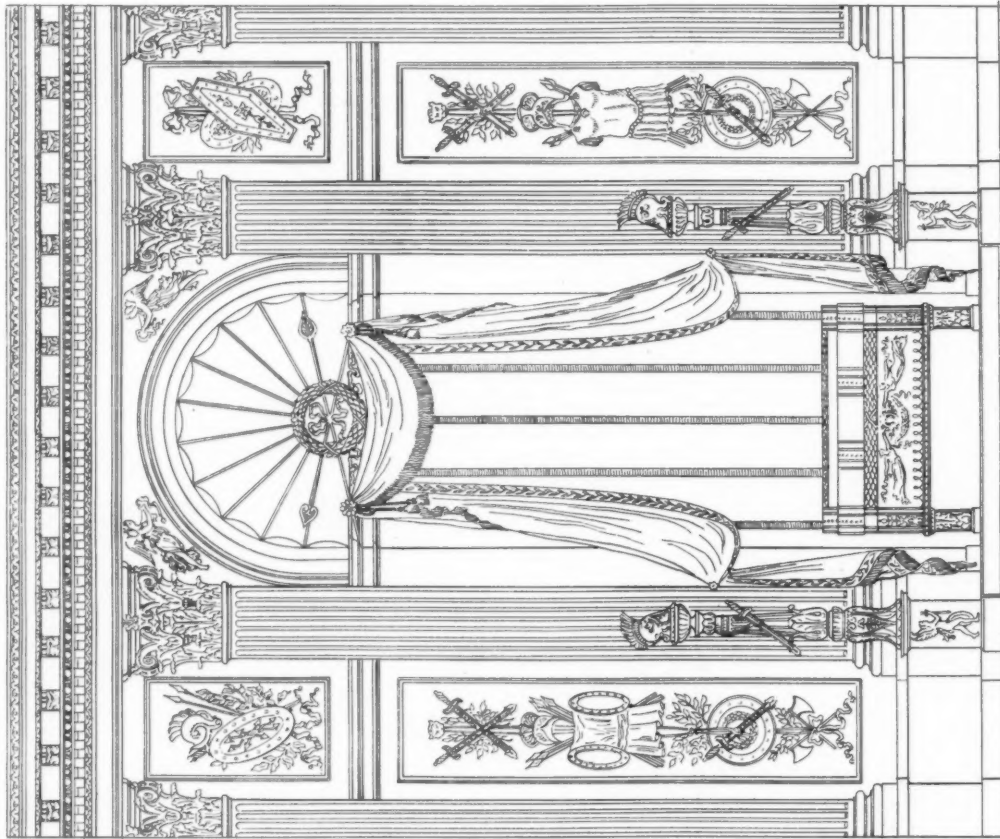
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School—Empire.

Size: 19 x 2½ inches.

WORKS: Stamford, Conn., Branford, Conn.



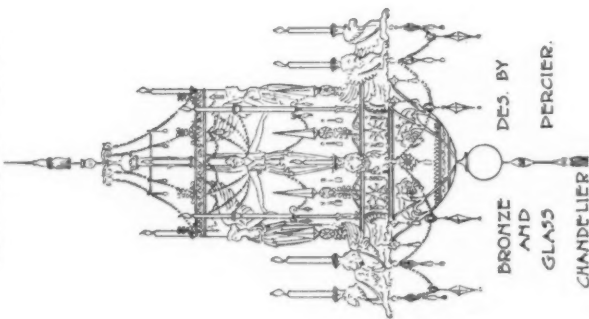
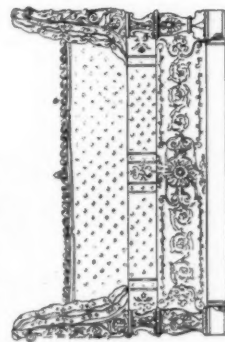
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EMPIRE STYLE

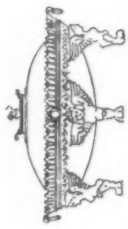
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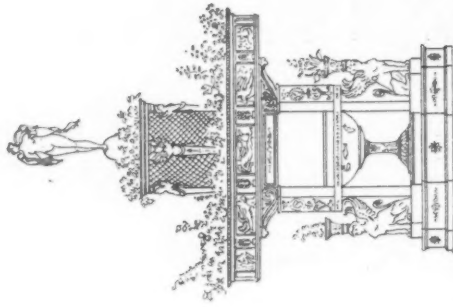
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BRONZE AND GLASS
CHANDELIER
DES. BY
PERCIER.

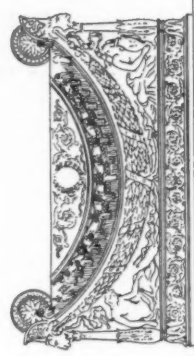
BED DES. BY PERCIER.



DISH DES. BY PERCIER.



JARDINIÈRE DES. BY PERCIER.

BOAT-SHAPED BEDSTEAD.
DES. BY PERCIER.



VANDYKE BROWN, No. 1094,

A particularly rich and pleasing shade of Stain for
shingled walls;

LIGHT SAGE GREEN, No. 96,

A soft and delicate gray-green shade, also for walls,
and

POMPEIIAN RED, No. 1247,

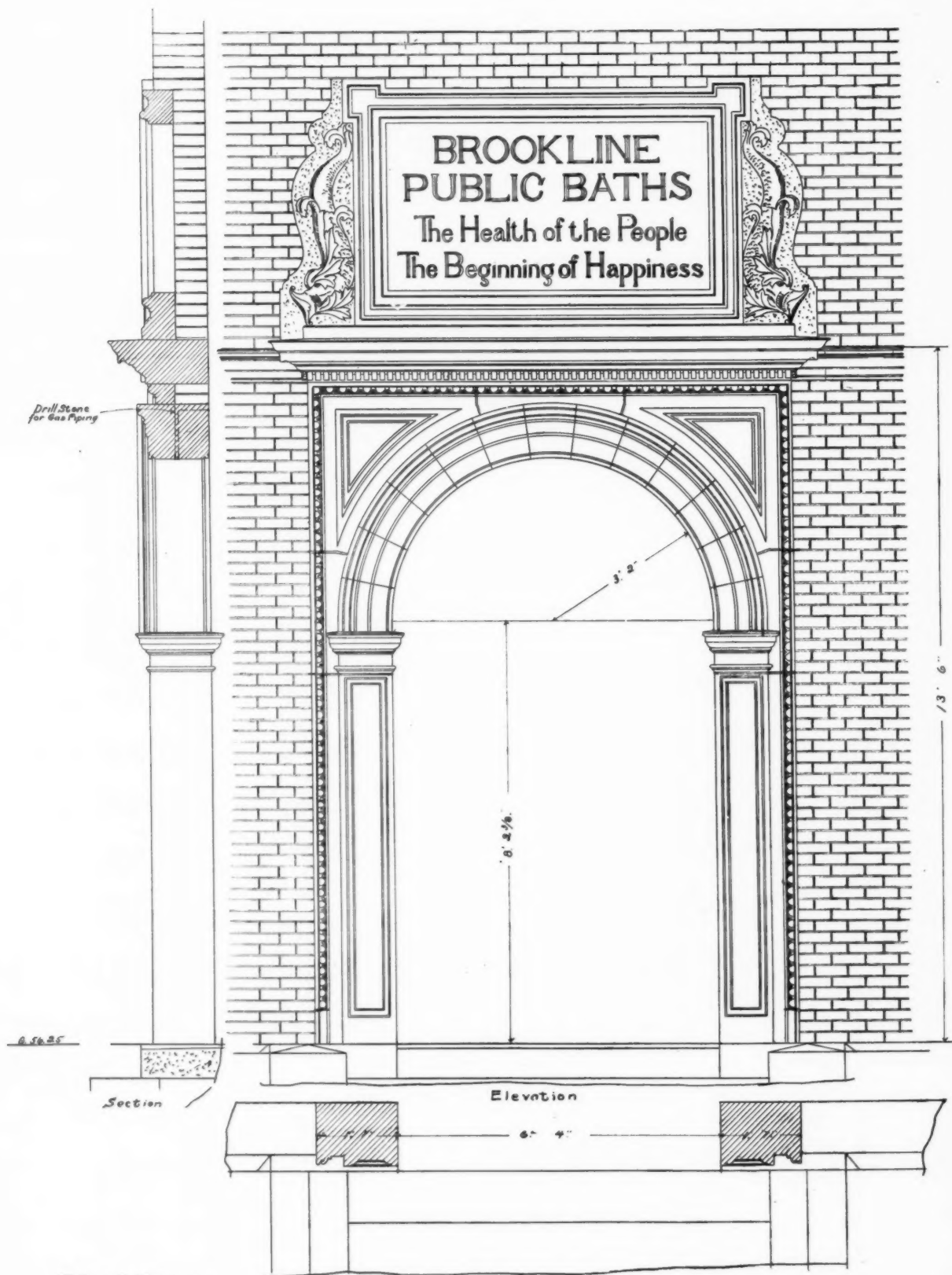
for both roof and wall shingles, are some of the most
popular Special Shades in

CABOT'S CREOSOTE SHINGLE STAINS.

SAMPLES WILL BE SENT ON APPLICATION.

SAMUEL CABOT, Sole Manufacturer,

BOSTON, MASS.



F. Joseph Untersee,
Architect
608 Hancock Bldg. Boston.

POTSDAM RED SANDSTONE



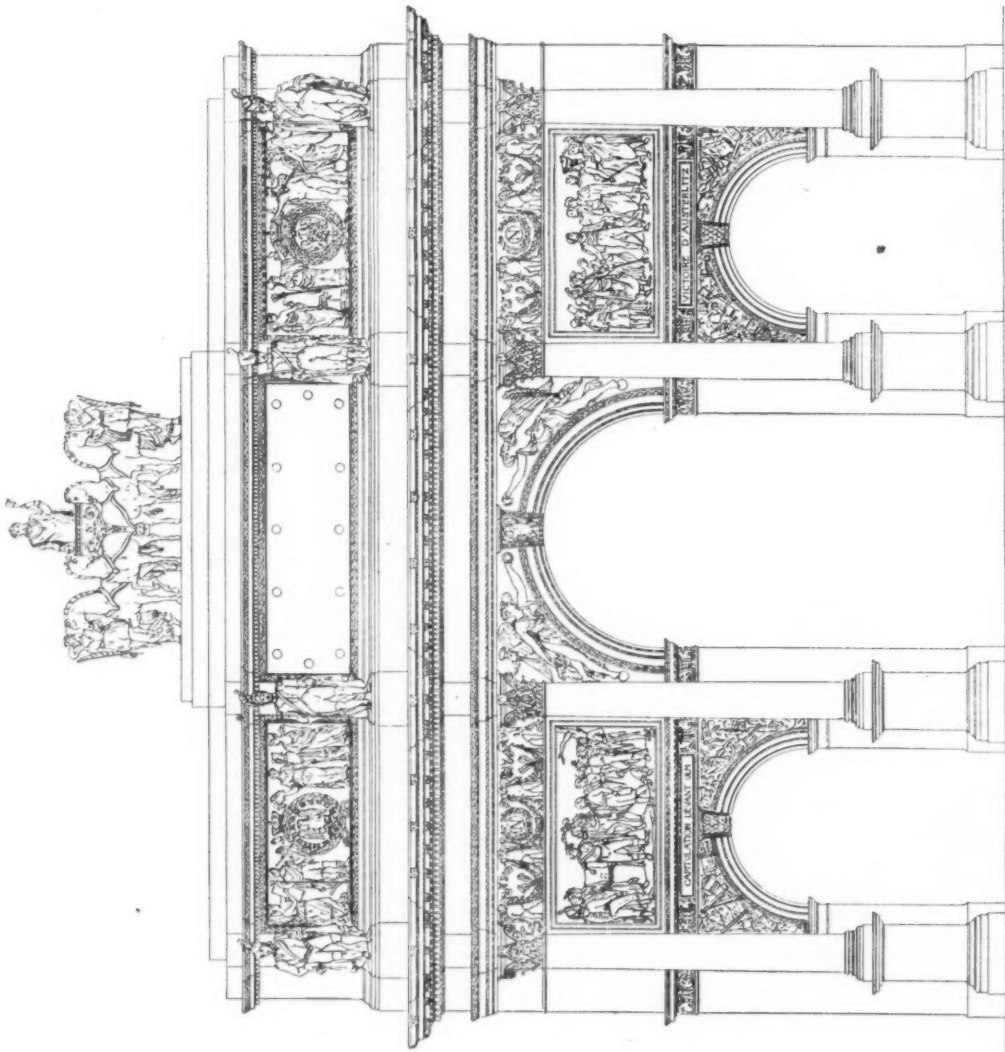
The following extract in a late article by Dr. Wm. H. Wahl, A. M., PH. D., etc., Secretary of the Franklin Institute, is interesting as giving his opinion of this stone:—

“The stone quarried at Potsdam is of the utmost strength and firmness of texture, being as strong and as capable of resisting crushing strains as any of the granites. In richness and brilliancy of color, it is unsurpassed. Its great density renders it almost absolutely weather-proof, and it is unfading in color, and absolutely unaffected by fire. From these comments it will appear that this remarkable-stone, because of its beauty and extraordinary durability—which last is unquestioned and demonstrated—approximates more closely to the ideal building stone than any other that has thus far been proposed for use in this country, where the conditions of service are so extreme.”



Apply to us for samples, prices and full particulars.

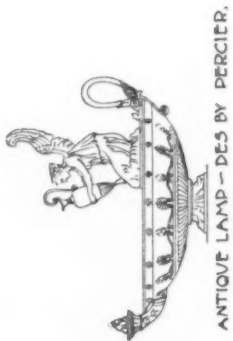
The Potsdam Red Sandstone Co.
POTSDAM, N. Y.



ARC DE TRIOMPHE DU CARROUSEL · PARIS · DES BY PERCIER.

EMPIRE STYLE

NO 2



ANTIQUE LAMP - DES BY PERCIER.

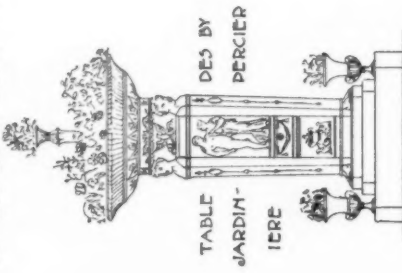


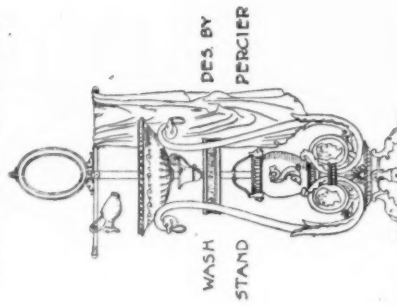
TABLE JARDIN - DES BY PERCIER.



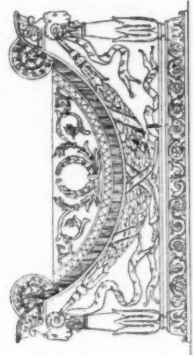
BED USED BY NAPOLEON I
NOW IN THE GARDE-MEUBLE.



ANTIQUE LAMP - BY PERCIER



WASH STAND
DES BY PERCIER



DOUBLE-BOLSTERED BED ...
DATING FROM THE FIRST EMPIRE

Iron-Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,
BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.

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of all sizes.

SPECIALTIES:

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Of all sizes, in Iron or Steel.

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PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

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DANIEL W. SIMON, Managers, 49 William Street.
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STEEL BEAMS 4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

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Architects' best work.
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NEW YORK OFFICE: 36 Cortlandt Street.

BUILDING INTELLIGENCE.

(Mercantile Buildings Continued.)

Pittsburgh, Pa. — Second Ave., nr. Market St., six-
story stone business-building; own., Weaver, Costello
& Co; arch., Boyd & Long, Hamilton Building.

STABLES.

Baltimore, Md. — Two-story brick stable and dead-
house, 29' x 51', n s King St., bet. Greene and Penn
Sts.; own., Maryland University Hospital, corner
Greene and Lombard Sts.

Boston, Mass. — Leyden St., No. 225 (rear), Ward 1,
frame stable, 18' x 20'; \$350; own. and bld., John
Young, on premises.

Catherine St., nr. Bourne St., Ward 23, frame
stable, 20' x 28'; \$300; own. and bld., Philip D.
Chamberlain, on premises.

Hopkins St., nr. Evans St., Ward 24, one-and-one-
half-story frame stable, 24' x 30', pitch roof; \$1,000;
own. and bld., John Vincent, 17 Hopkins St., Dor-
chester.

Brooklyn, N. Y. — Dean St., n s, 100' e 3d Ave.,
three-story brick stable, 60' x 100', gravel roof; \$7,000;
own., R. E. Hridgette, 180 Dean St.; arch., M. C.
Freeman, 38 Tompkins Pl.

Cambridge, Mass. — Garden Ct., one-and-one-half-
story frame stable, pitch roof; \$500; own. and bld.,
James Shea.

Chicago, Ill. — Union Stock Yards and Transit Co.,
one-story brick barn, Halsted and 40th Sts.; \$2,500.
Gottfried Brewing Co., three-story brick barn, 67-
72 Alexander St.; \$8,000.

Lynn, Mass. — Hollingsworth St., rear, one-and-one-
half-story frame stable, 16' x 35', pitch roof; \$500;
own. and bld., Michael Donovan, 66 Hollingsworth
St.

Winsor Ave., one-and-one-half-story frame stable,
26' x 34', pitch roof; \$1,500; own., Thomas Hurley,
8 Winsor Ave.; arch., H. W. Rogers.

Milwaukee, Wis. — Van Buren and Martin Sts.,
two-story brick and stone stable, 26' x 42'; \$3,000;
own., J. P. Kissinger; bld., C. Blukin; arch.,
Schnetzky & Liebert.

Newark, N. J. — Norfolk St., two-story stone stable,
30' x 54'; \$3,500; own., Baer & See; arch., Gustavus
Stahlin, 238 Washington St.

JACKSON ARCHITECTURAL IRON WORKS,

ESTABLISHED 1840.

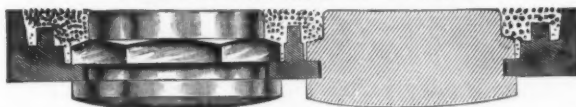
IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape
Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures,
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Designs and Estimates of Cost Furnished for Work in any Department.

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DAUCHY IRON WORKS

PRISMATIC LIGHT WORK



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ROSS PATENT LIGHT

CHICAGO

BUILDING INTELLIGENCE.

(Stables Continued.)

New York, N. Y. — West End Ave., nr. 70th St., six-
story brick and stone stable, 25' x 100'; own., Fredk.
de P. Foster, 18 Wall St.

East Thirty-fifth St., No. 303, three-story brick
stable, 25' x 94'; \$8,000; own., Gerhardt Kumpf, on
premises; arch., Franklin Baylies, Bible House.

Salem, Mass. — Gardner St., rear, No. 10, one-and-
one-half-story frame stable, 34' x 34', pitch roof; \$500;
own., D. A. Sutherland, 22 Pleasant St.

Worcester, Mass. — Main St., one-and-one-half-story
frame stable; own., Mrs. F. Leighton; arch., H. La-
pointe Clinton; con., Emerson & Munroe.

STORES.

Baltimore, Md. — Three-story brick store and dwell.,
s w cor. Gay St. and Jones's Falls; own., Louis A.
Becker, 224 North Gay St.

Chicago, Ill. — John Dean, three-story store and flats,
172 North Ave.; \$7,000.

Cincinnati, O. — Chase Ave., cor. Virginia Ave.,
three-story brick store and dwell., 30' x 70'; \$4,500;
own., Philip Ruebel; con., Ruebel Bros.; arch.,
Martin Fisher.

St. Louis, Mo. — Four-story brick store, w s 3d St.,
bet. Washington Ave. and St. Charles St.; \$10,000;
own., Peter Hauptma; bld., Bothe & Kateman.

TENEMENT-HOUSES.

Cambridge, Mass. — Highland Ave., three-story frame
flats for 6 families, 45' x 45', flat roof, furnace; \$11-
500; own. and bld., George Chaplin, 1412 Cambridge
St.

Milwaukee, Wis. — Jackson and Pleasant Sts., three-
story frame, brick-veneered tenement, 30' x 70';
\$6,500; own., E. Von Baumbach; arch., Schnetzky
& Liebert.

New York, N. Y. — One Hundred and Sixteenth St.,
350' e 8th Ave., 2 two-story brick tenements and
stores, 15' x 38'; \$16,000; own., Eder, Nicholson, 106
West 123d St.; arch., Jacob H. Valentine, 184 East
124th St.

WAREHOUSES.

Allegheny City, Pa. — A store warehouse will be
built for De Haven & Co., to cost about \$7,500; con.,
J. H. Trimble & Bro., Nixon St.

Brooklyn, N. Y. — Washington Ave., e s, 150' n Park
Ave., four-story brick storage warehouse, 25' x 90',
gravel roof; \$8,000; own., E. L. Beers, 229 Pierpont
St.; arch., G. P. Chappell, 24 State St., New York.

Chicago, Ill. — Cyrus H. McCormick, two-story brick
storage-warehouse, 419 East Indiana St.; \$5,000.

MISCELLANEOUS.

Boston, Mass. — City Hospital Grounds, South End,
brick laundry building; \$40,000; own., City of
Boston; arch., Wheelwright & Haven; not let.

Brooklyn, N. Y. — Front St., s s, 200' e Bridge St.,
one-story brick boiler-room, 33' 6" x 40', slate roof;
\$5,000; own., Brooklyn Union Gas Co., 180 Remsen
St.; arch., F. S. Benson, 180 Remsen St.; bld., J. D.
Anderson's Sons, 263 Fulton St.

Chicago, Ill. — Home for the Aged, one-story brick
foundation, 437-447 Sheffield Ave.; \$10,000.

New Haven, Conn. — College and Wall Sts., five-
story brick building; \$35,000; own., Ormiston Trust
Association; bld., C. D. Kinney; arch., Grovenor
Atterbury, 111 Fifth Ave., New York.

Peekskill, N. Y. — Brick and stone building for a
home for poor girls; \$80,000; own., Home of Good
Shepherd, foot of East 90th St., New York; General
con., V. Doorn's Sons, New Rochelle; arch.,
Schickel & Dittmar, 111 Fifth Ave., New York.

Philadelphia, Pa. — Point Breeze, one-story bank-
house, 73' x 128'; one-story acid house, 20' x 20';
one-story receiving house, 67' x 94'; own., Atlantic
Refining Co., same address.

COMPETITIONS.

FOR Programmes of Competitions of Society of
Beaux-Arts Architects for 1896-97, see American
Architect for October 17 and 24, 1896.

PROPOSALS.

ALTERATIONS.

[At New York, N. Y.]

Proposals are wanted until November 5, for
changes and additional work for public building to
be erected in Crotona Park. Address ASHBEL P.
FITCH, Comptroller, 220 Broadway, as above.

1088

PROPOSALS.

RETAINING WALL AND STEPS. PLUMB-
ING.

[At Providence, R. I.]

Proposals are wanted until November 6, for re-
taining wall and steps; also, separate proposals for
plumbing system, at State Normal School. Plans,
etc., at office of Martin & Hall, Architects, 502 Indus-
trial Trust Co. Building, as above. Address THOS.
B. STOCKWELL, Secretary, care of Martin & Hall,
as above.

1088

SCHOOL-BUILDING.

[At Buffalo, N. Y.]

Proposals are wanted until November 5, for 8-
room brick addition to School No. 16, including
heating, ventilating, plumbing and electrical work.
Address R. G. FARSONS, Secretary Department of
Public Works, as above.

1088

ALTERATIONS.

[At New York, N. Y.]

Proposals are wanted until November 5, for
alterations to alcoholic ward, Bellevue Hospital.
Address SILAS C. CROFT, Pres. Commis. Public
Charity, 66 Third Ave., as above.

1088

PLUMBING.

[At Boston, Mass.]

Proposals are wanted until November 2, for
plumbing system in school-house, corner of Chambers
and Poplar Sts. Plans, etc., at office of J. L. Faxon,
7 Exchange Pl., as above. Address SECRETARY
OF SCHOOL COMMITTEE, Mason St., as above.

1088

PYTHIAN HALL.

[At Charleston, S. C.]

Proposals are wanted until November 9, for
construction of Pythian Hall. Address EDWARD
ANDERSON, Treasurer Pythian Hall Co., as above.

1088

Treasury Department, Office Supervising Architect,
Washington, D. C., October 24, 1896. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 20th day of November, 1896, and opened imme-
diately thereafter, for all the labor and materials
required for the erection and completion (except
heating apparatus) of the United States Post-office
building at Saginaw, Mich., in accordance with the
drawings and specification, copies of which may be
had at this office or the office of the Superintendent
at Saginaw, Mich. Each bid must be accompanied
by a certified check for a sum not less than 2% of the
amount of the proposal. The right is reserved to
reject any or all bids and to waive any defect or in-
formality in any bid, should it be deemed in the
interest of the Government to do so. All proposals
received after the time stated for opening will be
returned to the bidders. Proposals must be enclosed
in envelopes, sealed and marked "Proposal for the
Erection and Completion of the United States Post-
office at Saginaw, Mich.," and addressed to WM.
MARTIN AIKEN, Supervising Architect.

1089

GUN EMPLACEMENTS.

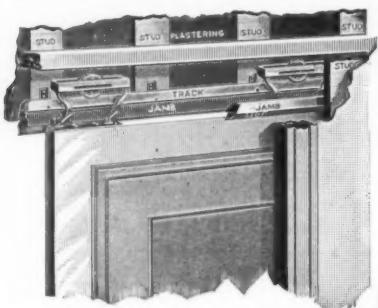
[Near Cape Fear River, N. C.]

United States Engineer Office, Wilmington, N. C.,
October 20, 1896. Proposals for building gun emplace-
ments near mouth of Cape Fear River, N. C. will be
received until 2 P. M., November 21, 1896, and
then opened. For information apply to D. P. HEAP,
Lt.-Col. Engineers.

1091

Treasury Department, Office Supervising Architect,
Washington, D. C., October 20, 1896. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 18th day of November, 1896, and opened imme-
diately thereafter, for all the labor and materials re-
quired for the roof-sheathing, slate and copper-work
of roof, down and drain pipes, roof skylights, etc.,
for the United States Post-office, Court-house and
Custom-house building at St. Paul, Minn., in accor-
dance with drawings and specification, copies of which
may be had at this office or the office of the Superin-
tendent at St. Paul, Minn. Each bid must be accom-
panied by a certified check for a sum not less than 2%
of the amount of the proposal. The right is reserved
to reject any or all bids and to waive any defect or in-
formality in any bid should it be deemed in the
interest of the Government to do so. All proposals
received after the time stated will be returned to the
bidders. Proposals must be enclosed in envelopes,
sealed and marked "Proposal for Roof-sheathing,
Slate and Copper-work of Roof, Down and Drain
Pipes, Roof Skylights, etc., for the United States
Post-office, Court-house and Custom-house building
at St. Paul, Minn.," and addressed to WM. MARTIN
AIKEN, Supervising Architect.

1088



STEARNS STEEL PARLOR DOOR HANGER

Is the result of a twenty-year search for a perfect hanger. The Stearns Hanger is of the single track, anti-friction type; principal parts of steel; perfect alignment; noiseless. Each hanger independently adjustable. Arranged in one-third the time required by others.

SEND FOR CIRCULAR AND PRICE-LIST.

E. C. STEARNS & CO., SYRACUSE, N. Y.

PROPOSALS.

LIGHT-STATION.

[At Boston Harbor, Mass.]

Proposals are wanted until November 5, for building of Spectacle Island Light-station. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

HOSPITAL.

[At Newark, N. J.]

Proposals are wanted until November 11, for city hospital on block bounded by Fairmount Ave., Camden, Bank and Cabinet St. Separate bids. Address L. J. WENDELL, City Clerk, as above. 1088

ELECTRIC-LIGHT PLANT.

[At New York, N. Y.]

Proposals are wanted until November 9, for electric-light and power plant in court-house and post-office building. Separate bids. Address SECRETARY OF THE TREASURY, Washington, D. C. 1088

Treasury Department, Office Supervising Architect, Washington, D. C., October 17, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 17th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Post-office building at Newburgh, N. Y., in accordance with the drawings and specification,

PROPOSALS.

copies of which may be had at this office or the office of the Superintendent at Newburgh, N. Y. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Heating and Ventilating Apparatus for the United States Post-office building at Newburgh, N. Y." and addressed to WM. MARTIN AIKEN, Supervising Architect. 1088

Treasury Department, Office Supervising Architect, Washington, D. C., October 16, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 13th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Post-office building at Richmond, Ky., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Richmond, Ky. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed

PROPOSALS.

in envelopes, sealed and marked, "Proposal for the Heating and Ventilating Apparatus for the United States Post-office building at Richmond, Ky." and addressed to WM. MARTIN AIKEN, Supervising Architect. 1088

JAIL.

[At Atlanta, Ga.]

NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA.

ATLANTA, GA., September 19, 1896. Sealed proposals will be received at this office until 12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 9½ Peachtree Street.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 2½ per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blanks furnished by the engineer, and enclosed in envelopes, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ, Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

C. A. COLLIER, Chairman,
FORREST ADAIR,
JOSEPH THOMPSON,
WALTER R. BROWN,
JACK J. SPALDING,
Commissioners of Roads and Revenues, Fulton County, Georgia.

FORREST ADAIR, Chairman,
WALTER R. BROWN,
JACK J. SPALDING,
Committee on Public Buildings.
A. L. KONTZ, Clerk, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

LIGHT-HOUSE.

[At New Bedford Harbor, Mass.]

Proposals are wanted until November 9, for Butler Flats Light Tower. Address MAJOR W. R. LIVERMORE, Office of Light-house Engineer, Boston. 1088

Topographical Index of Advertisers.

[For pagination, see Alphabetical Index on Cover 3.]

CONNECTICUT.

New Britain. The Stanley Works.....[Wrought-Steel Butts.]

New Haven. Fitch Co. The W. & E. T.....[Sash Lock.]

Stamford. Yale & Towne Mfg. Co.....[Locks.]

DISTRICT OF COLUMBIA.

Washington. Washington Patent Agency.....[Patents.]

Chicago. ILLINOIS.

American Radiator Co.....[Radiators.]

Dauchy & Co.....[Fault-Lights.]

Kelly, Thos. & Bros.....[Sanitary Supplies.]

McCully Glass Company.....[Stained-Glass.]

Northwestern Terra-Cotta Co.....[Terra-Cotta.]

Pioneer Fireproof Construction Co.....[Fireproofing.]

Seely, H. B.....[Fireproof Floor.]

Taylor, J. W.....[Photographs.]

The Winslow Bros. Co.....[Ornamental Iron.]

Tiffany Fenced Brick Co.....[Brick.]

Bedford. INDIANA.

Bedford Quarries Co.....[Stones.]

Brightwood. Indianapolis Terra-Cotta Co.....[Terra-Cotta.]

Indianapolis. Dean Bros.....[Pumps.]

Interior Hardwood Co.....[Hardwood Floors.]

Lilly, Jno. M.....[Monastic Floors.]

KENTUCKY.

Snead & Co. Iron Works.....[Iron Work.]

Calais. MAINE.

New Brunswick Red Granite Co.....[Red Granite.]

Red Beach. Maine Red Granite Co.....[Red Granite.]

MASSACHUSETTS.

Boston. Butcher Polish Co.....[Floor Polish.]

Cabot, S.....[Shingle-Stakes.]

Dexter Bros.....[Shingle Stakes.]

Farquhar's Sons, John.....[Roofers.]

Front Snow Guard Co.....[Snow Guards.]

Gurney Heater Mfg. Co.....[Hot water, etc.]

Haberstroff & Son, J.....[Decorators.]

Heliotype Printing Co.....[Art Printing.]

Massachusetts Fan Co.....[Ventilating Fan.]

Moore & Wyman.....[Elevators.]

New England Felt Roofing Works.....[Roofing.]

Samson Cordage Works.....[Sash-Cord.]

MASSACHUSETTS.

Spaulding Print Paper Co.....[Blue Prints.]

Waldo Bros.....[Meat-Supplies.]

Whittier Machine Co.....[Elevators.]

Worthley, F. O.....[Out Manager.]

Clinton. Clinton Wire Cloth Co.....[Metallic Lathing.]

Palmer. Flynt Building & Construction Co.....[Building Contractors.]

Springfield. Elctron Mfg. Co.....[Elevators.]

Webster. Prescott & Son, J. B.....[Wall-tie.]

MARYLAND.

Baltimore. Baltimore Terra-Cotta Co.....[Terra-Cotta.]

Vaile & Young.....[Sightlights.]

MISSOURI.

St. Louis. Hydraulic-Press Brick Co.....[Bricks.]

Ludlow Saylor Wire Co.....[Art Metal-Work.]

NEW JERSEY.

Beach Haven. Sherborne, C. E.....[Perspectives.]

Camden. Montross Metal Shingle Co.....[Metal Shingles.]

Jersey City. Dixon Crucible Co. Jos.....[Graphite.]

National Sheet Metal Roofing Co.....[Metal Shingles.]

Newark. Murphy Varnish Co.....[Varnish.]

Storm Mfg. Co.....[Dumb Waiters.]

Patterson. Pacific Rolling Mill Co.....[Structural Iron.]

Perth Amboy. Perth Amboy Terra-Cotta Co.....[Terra-Cotta.]

Trenton. N. J. Steel & Iron Co.....[Iron.]

New Jersey Wire Cloth Co.....[Metallic Lath.]

NEW YORK.

Brooklyn. Chrome Steel Works.....[Chrome Steel.]

Irvington-on-Hudson. Lord & Burnham Co.....[Conservatories.]

New York City. Aeschmann & Pellarin.....[Marble Monuments.]

Allen's Cement Works.....[Cements.]

American Boiler Co.....[Heating Apparatus.]

NEW YORK.

Armstrong & Co. Maitland.....[Stained-Glass.]

Babcock & Wilcox.....[Boilers.]

Bickelhaupt, G.....[Sightlights.]

Brooks, Shoorbridge & Co.....[Cements.]

Caffall Bros.....[Waterproofing.]

Clark, Bunnet & Co.....[Ceiling Shutters.]

Columbia College.....[School of Architecture.]

Continental Insurance Co.....[Insurance.]

Deane, E. Eldon.....[Colorist.]

Devore & Co. F. W.....[Paints.]

Fisher & Co. Robert C.....[Marble.]

Friedlander, J. H.....[School of Architecture.]

Frink, I. P.....[Reflectors.]

Galt & Sons, John.....[Roofing Slate.]

Gorton & Lidgerwood Co.....[Boilers.]

Hays, George.....[Metallic Lathing.]

Hessling, Bruno.....[Architectural and Decorative Works.]

Hill, George.....[Cauldrons.]

Hitchings & Co.....[Greenhouses.]

Jackson & Co. Wm. H.....[Grates.]

Kill, George.....[Architectural and Decorative Works.]

Jacobson Manufacturing Co.....[Ceiling and Wall Decorations.]

Jenkins Bros.....[Valves.]

Johns, M. G. W.....[Fences.]

Jones, T. W.....[Fences.]

Lorillard Refrigerator Co.....[Refrigerators.]

Lowinson, Osea.....[Civil Engineers.]

Maurer & Son, Henry.....[Fireproofing.]

Miller & Coates.....[Bath-Tubs.]

Mott Iron Works, J. L.....[Bath-Tubs.]

National Wood Mfg. Co.....[Unlaid Floors.]

Neuchatel Asphalt Co.....[Asphalt.]

N. Y. Architectural Terra-Cotta Co.....[Terra-Cotta.]

New York Masonic Works.....[Asphalt.]

N. Y. Metal Ceiling Co.....[Metal Ceilings.]

Okonite Co. Ltd.....[Insulated Wire.]

Outlander & Co. W. H.....[Annunciators.]

Otis Bros. & Co.....[Elevators.]

Pitt, W. H.....[Painting-Gates.]

Baritan Hollow & Porous Brick Co.....[Fireproofing.]

Sargent & Co.....[Builders' Hardware.]

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Smith & Co. Edward.....[Varnishes.]

Thiele, E.....[Portland Cement.]

United States Mineral Wool Co.....[Mineral Wool.]

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Williams, John.....[Wrought Metal.]

Wilson, Jas. B.....[Building Shutter.]

Worthington, Henry R.....[Pumps.]

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Syracuse. Stearns & Co., E. C.....[Parlor Door Hangers.]

Troy. Globe Ventilator Co.....[Vent-Inters.]

Troy Laundry Machinery Co.....[Washing Machines.]

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Cudell, F. E.....[Traps.]

Van Wagoner & Williams Hardware Co.....[Spring Hinges.]

Toledo. Toney Water-Heater & Mfg. Co.....[Automatic Water-Heater.]

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Easton. Bangor Excelsior Slate Co.....[Roofing Slate.]

Harrisburg. Harrisburg En'dy & Machine W'ks.....[Engines.]

Philadelphia. Baily & Truscott.....[Architects.]

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French & Co. Samuel H.....[Mortar Colors.]

Haines, Jones & Cadbury Co.....[Plumber's Supplies.]

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Jordan Brick Co.....[Bricks.]

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Merchant & Co.....[Tin Roofing.]

Morse, Williams & Co.....[Elevators.]

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Taylor Co. N. & G.....[Tin.]

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Thorn Shingle & Ornament Co.....[Metallic Shingles.]

Pittsburgh. Apollo Iron and Steel Co.....[Galvanized Iron.]

Follansbee Bros. Co.....[Roofing Materials.]

Miller Co. W. Gordon.....[Traps.]

Northrop & Co. A.....[Metal Ceiling.]

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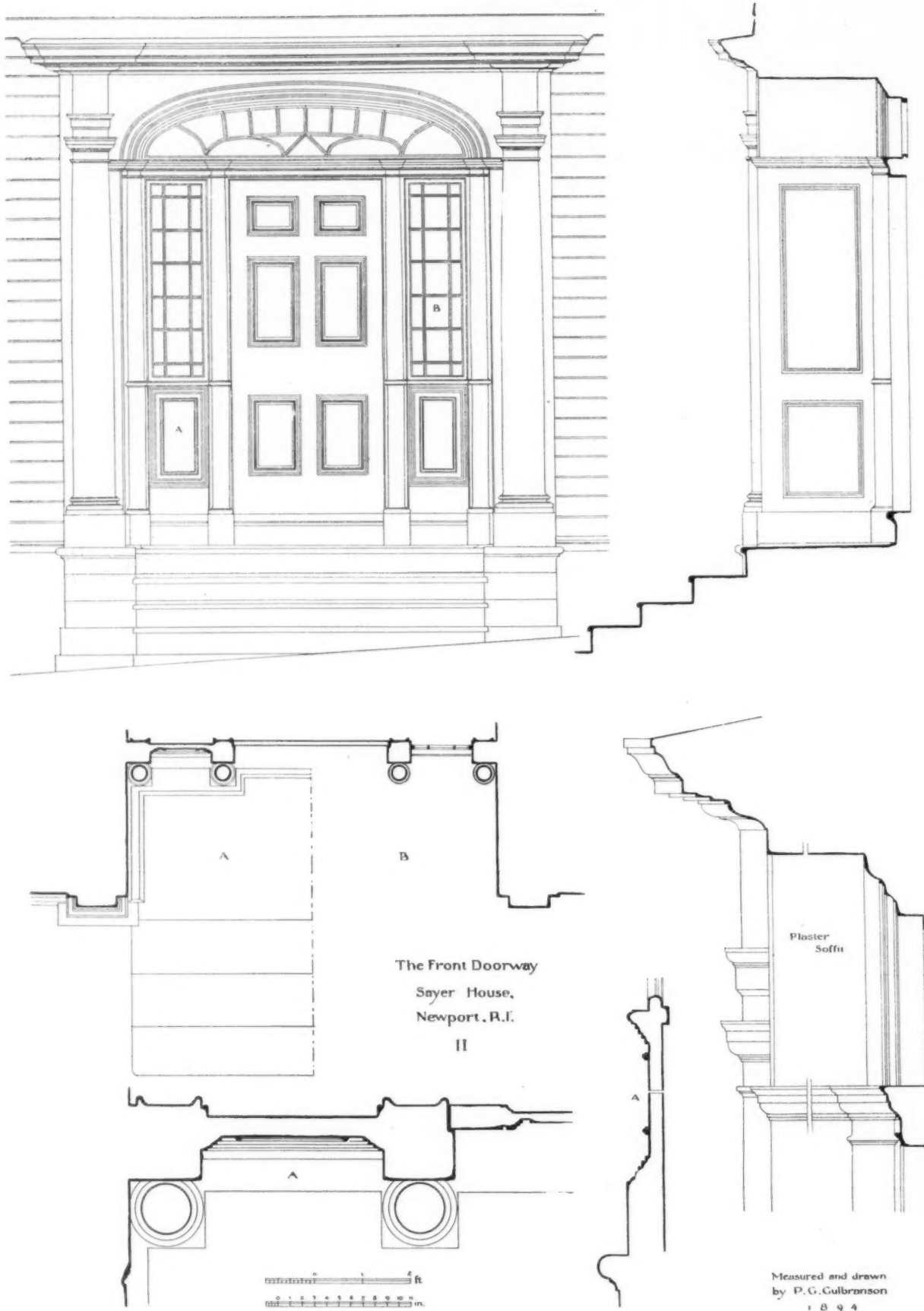
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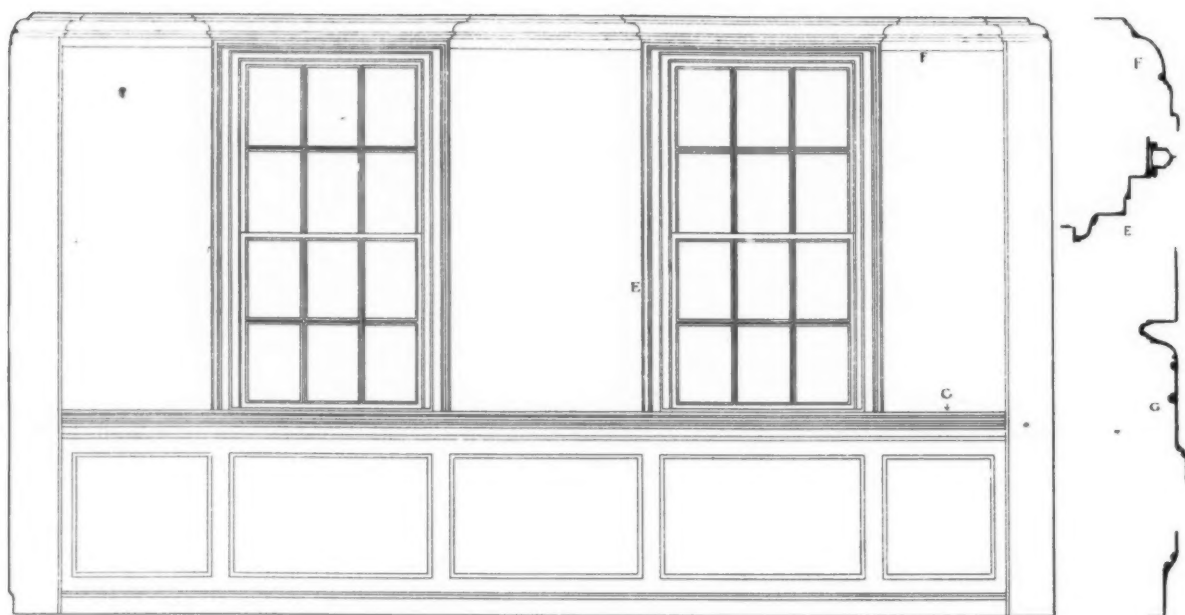
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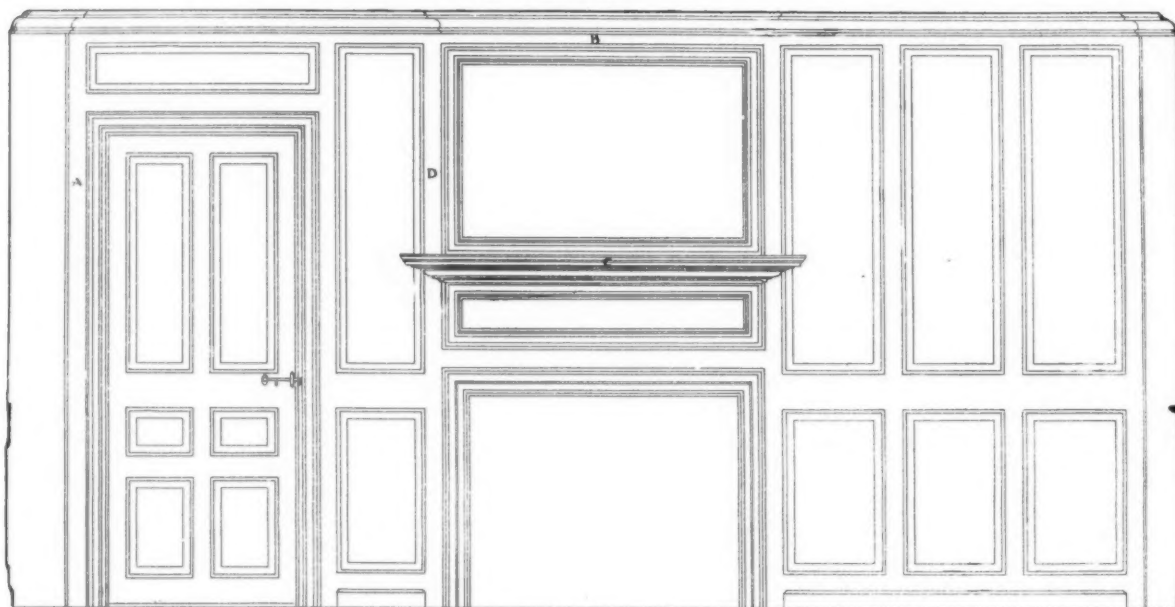
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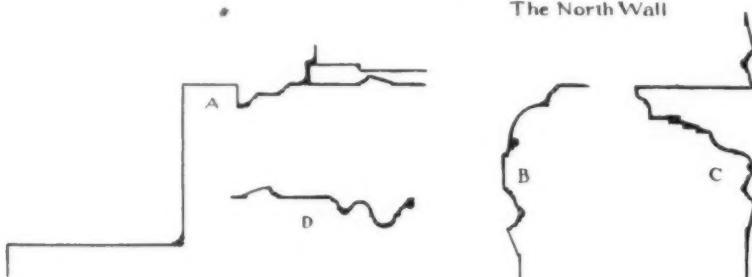
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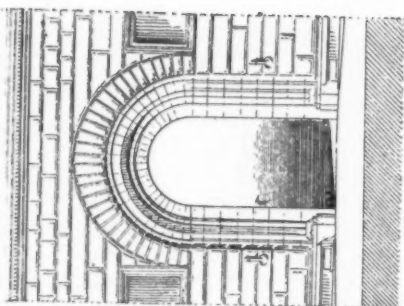
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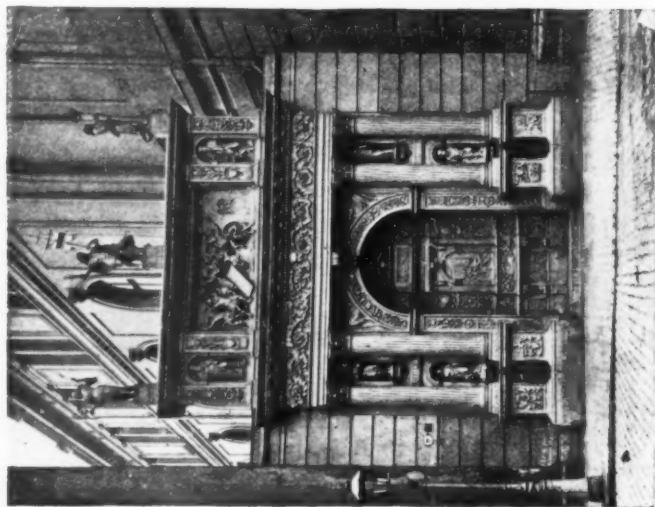
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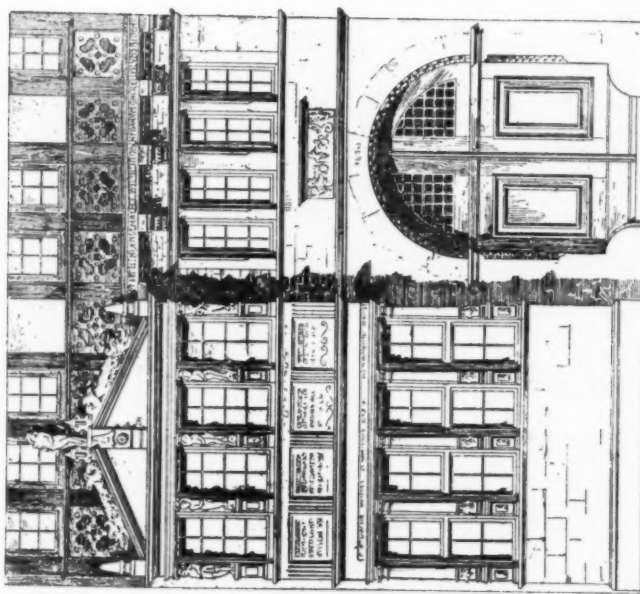
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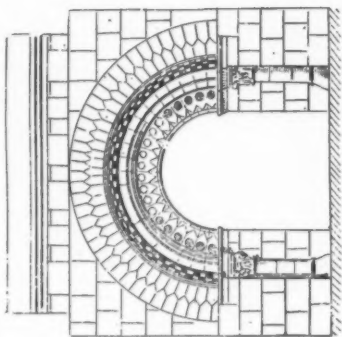
Strozzi Palace, Florence, Italy.



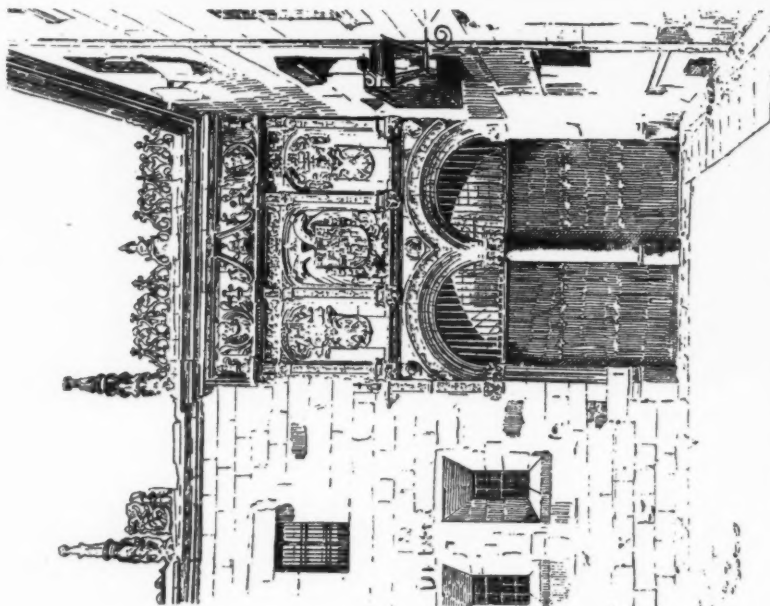
Old Chapel Portal, Dresden, Germany.



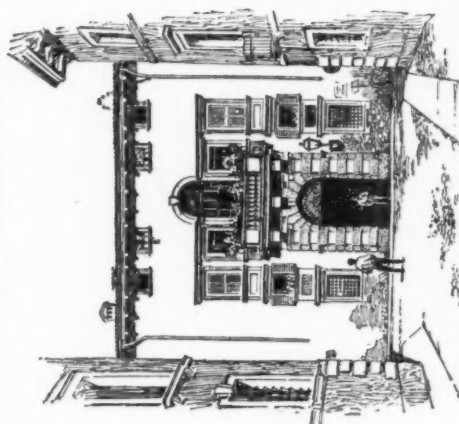
Facade at Hanover, Germany.



Doorway at Serignac, France.

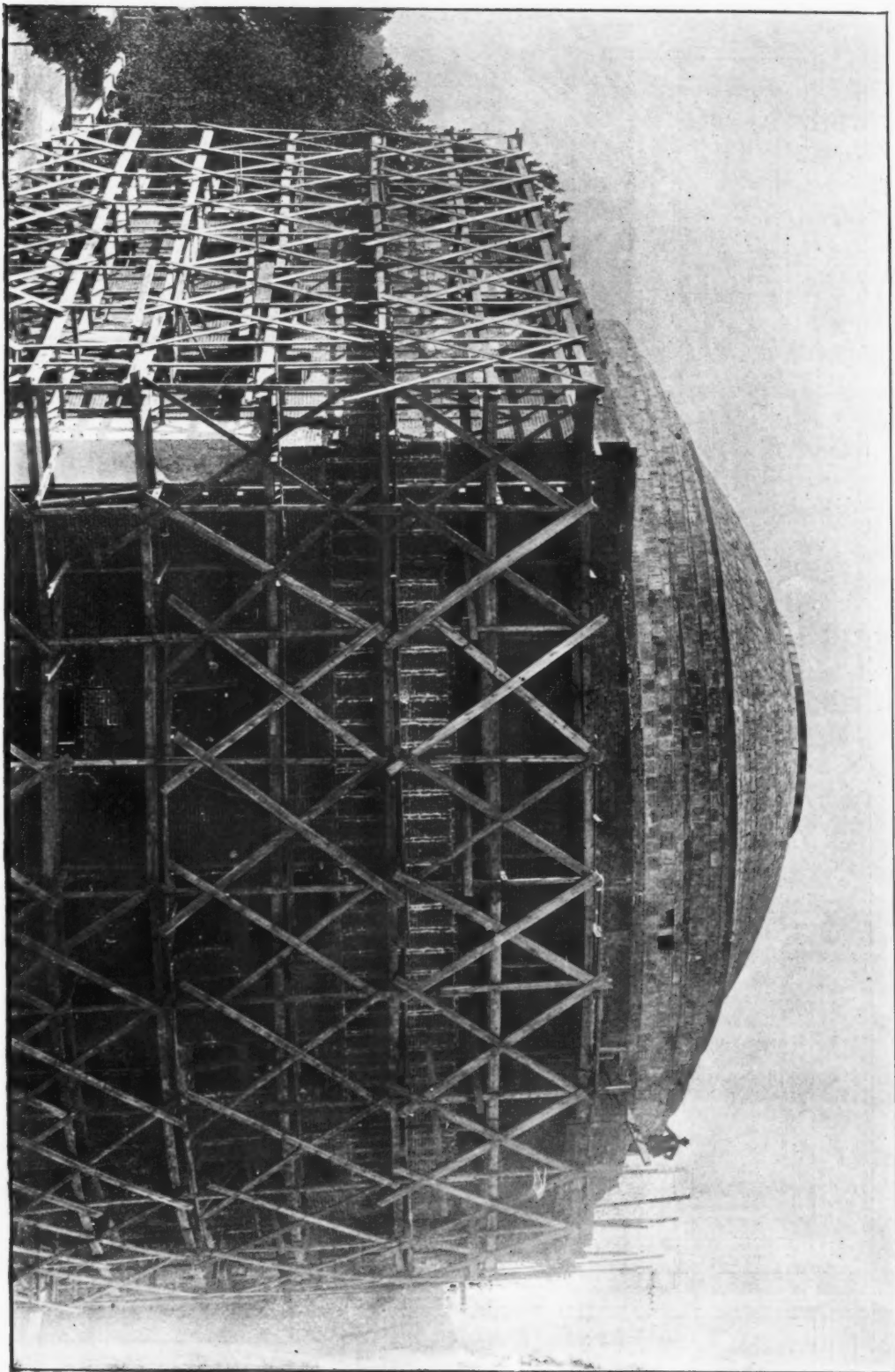


Gateway near the University of Salamanca, Spain.



Palazzo Ottolini, Verona, Italy.

DOORWAYS.

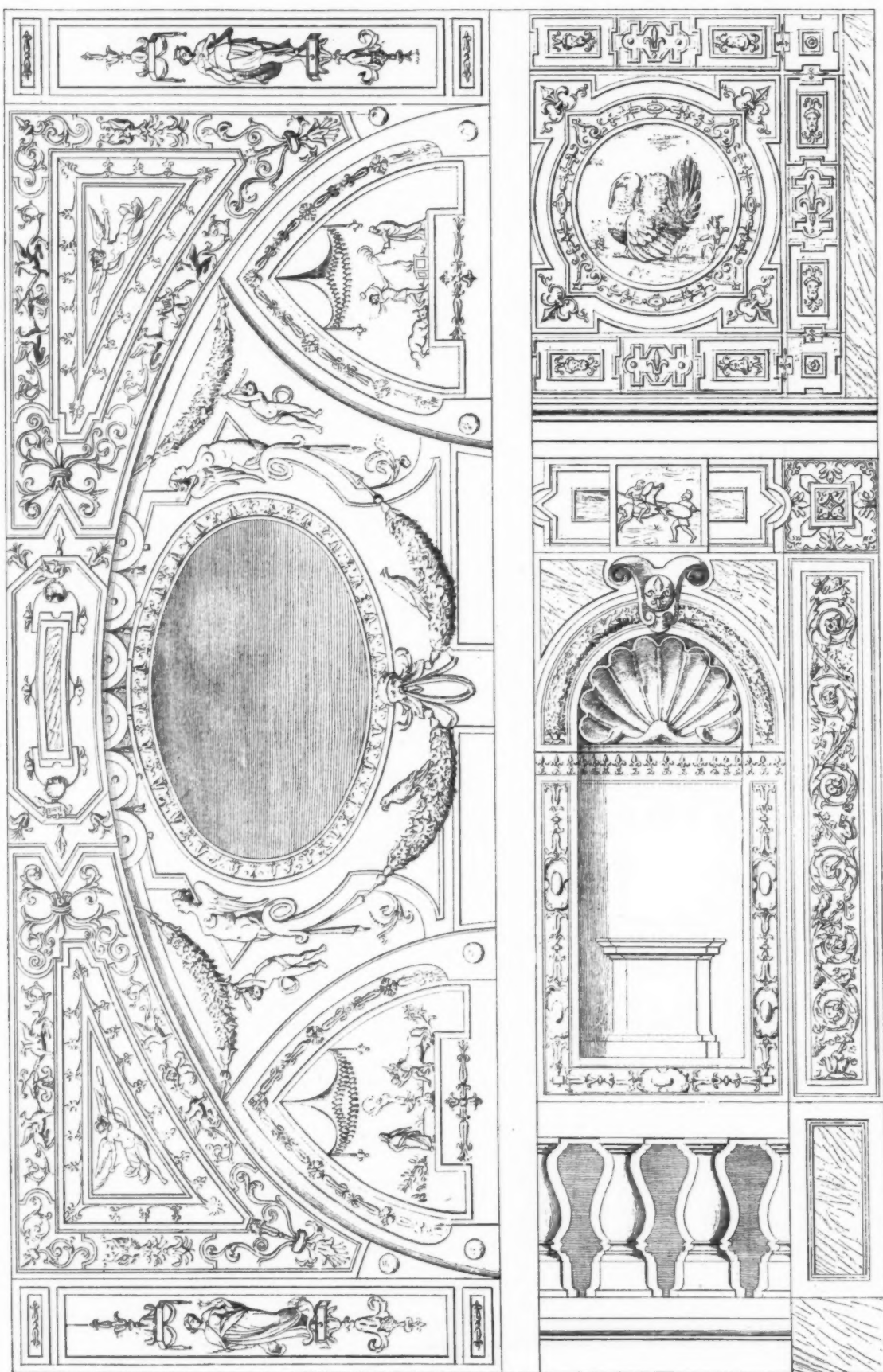


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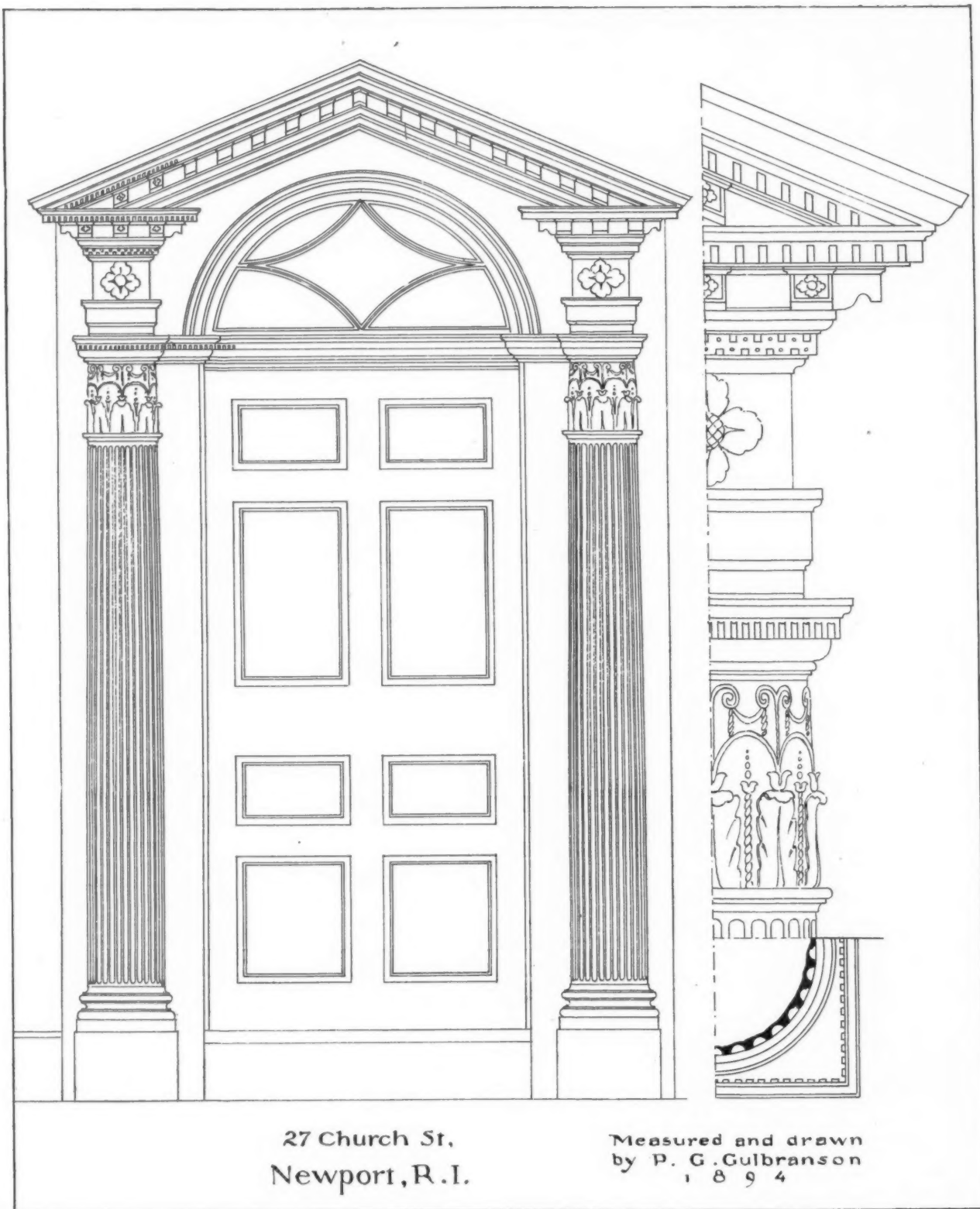
✂ ✂ Not the least of the advantages of this stone is the fact that cement and mortar have a very strong hold upon it, making anchors for wall facings unnecessary. There is no tendency for the pointing at joints of stonework to be thrown out by frost. In many varieties of stone and particularly limestone and marble, water in running down the wall gets between the surface of the stone and the mortar, the pointing is soon loosened, and the wall left open to the attacks of the weather. We can refer to masonry which has stood but a few years in which the pointing has been thrown out by the weather to a depth of from one to four inches. Re-pointing is not only expensive, but if a wall really needs it, it cannot be made as good as new, besides the face of the wall is often defaced by this process.

✂ ✂ It is largely on account of this quality of the stone which causes it to hold its place in a tile floor, and tiling of Potsdam stone cannot be loosened from its bed by the running of heavy hand-trucks or barrows over it, whether these have rubber wheels or not.

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Gottfried Brewing Co., three-st'y brick barn, 67-
72 Alexander Ave.; \$8,000.

Cleveland, O. - Lake Ave., two-st'y brick and frame
stable; \$5,000; own., Wm. Grief; arch., Charles E.
Tousley, 176 Euclid Ave.

Everett, Mass. - Cemetery Grounds, two-st'y frame
stable, 35' x 35', pitch roof; \$5,000; own., Woodlawn
Cemetery Co., F. F. Marshall, Supt.; bld., Francis
A. Jones, Chelsea.

Holmesburg, Pa. - Church St., n e cor. Decatur
St., two-st'y brick stable, 40' x 70'; own., James G.
Meehan.

Philadelphia, Pa. - Gransback and Rorer Sts., one-
st'y brick stable, 16' x 28'; own., Branagan & Adair,
3025 Rorer St.

New St., s e cor. Clinton St., brick stable, 14' x 40';
own., W. Oeste, Mehl and Ontario Sts.

Second St., w s e Fisher St., one-st'y brick stable,
12' x 30'; own., G. E. Monteth, 3029 North 5th St.

Wyoming Ave., e Front St., one-st'y brick stable,
10' x 12'; own., C. B. Peacock, 3909 North 5th St.

Washington, D. C. - K St., rear, No. 1626, two-st'y
brick stable, 17' 6" x 46'; pitch roof; own., Stephen
B. Elkins; bld., Thomas C. Anderson; arch., Paul
J. Pelz.

G St., N. W., rear, No. 2127, two-st'y brick stable
and bakery, 25' x 37'; \$3,500; own., Joseph Bender;
bld., J. M. Dunn.

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Chicago, Ill. - Huebner Bros., 2 three-st'y store and
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two-st'y brick store, 35' x 65'; own., James P. Park,
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TENEMENT-HOUSES.

Boston, Mass. - Allen St., No. 62, Ward 8, six-st'y
brick tenement, 21' x 23' x 63', flat roof, stoves;
\$25,000; own. and bld., Wm. Lowe, 60 Allen St.

Cincinnati, O. - Laurel St., cor. Cutter St., four-st'y
brick flat-building, 22' x 62'; \$25,000; own., Louise
Kuhlman; arch., A. Kuhlman.

Milwaukee, Wis. - Nineteenth and State Sts., four-
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South Norwalk, Conn. - Broadway, four-st'y brick
store and tenement, 54' x 76'; own., Harry Weis;
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THEATRES AND HALLS.

Cleveland, O. - Euclid Ave., nr. Wilson St., two-st'y
frame music-hall and dancing-academy, 50' x 150',

BUILDING INTELLIGENCE.

(Theatres and Halls Continued.)

flat roof, steam; \$10,000; own., G. E. Collins; arch.,
A. N. Oviatt.

WAREHOUSES.

Lawrence, Mass. - Off Essex St., three-st'y brick
store and storage-warehouse, 29' x 93', flat roof;
\$20,000; own., D. S. Jordan; bld., Peabody & Pike;
arch., John Ashton.

MISCELLANEOUS.

Chicago, Ill. - Ladies of Loretta Convent, three-st'y
brick convent, 6539-43 Stewart Ave.; \$25,000.

Cincinnati, O. - Ludlow Ave., frame grain-elevator,
42' x 94' 6"; \$12,000; own., Clifton Springs Distill-
ing Co.; con., A. Heinemann; arch., Otis Breden.

Newark, N. J. - Fairmount Cemetery, mausoleum;
\$34,000; own., Gottfried Kruger; arch., Gustavus
Staehlin; con., Joseph Ochswald.

New York, N. Y. - One Hundred and Twenty-fourth
St., 100' e Lenox Ave., four-st'y brick building, 50'
x 100'; \$70,000; own., Young Women's Christian
Association; con., Jere C. Lyons, 81 East 125th St.;
arch., W. W. Knowles, 111 Fifth Ave.

Philadelphia, Pa. - South Fourth St., Nos. 624-26,
three st'y brick, stone and iron market-house, 40' x
89'; con., J. F. McIlloskey, 212 New St.; arch.,
Henry D. Daght, 706 Walnut St.

St. Louis, Mo. - Mission House, e s Minard St., bet.
Julia and Carroll Sts.; \$9,000; own., Soulard Mission
House.

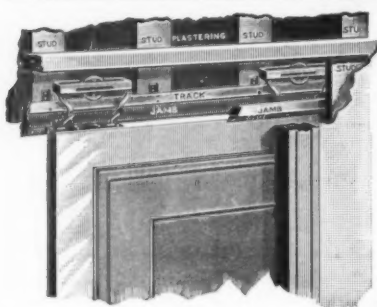
Two-st'y pork-house, s s Bremen St., bet. 21st and
Florissant Sts.; \$8,000; own., J. Krey.

COMPETITIONS.

FOR Programmes of Competitions of Society of
Beaux-Arts Architects for 1896-97, see *American
Architect* for October 17 and 24, 1896. t.f.

PROPOSALS.

Treasury Department, Office Supervising Architect,
Washington, D. C., November 2, 1896. Sealed propo-
sals will be received at this office until 2 o'clock p. m.
on the 1st day of December, 1896, and opened im-
mediately thereafter, for all the labor and materials
required for the floor-arches, etc., for the United
States Post-office, Court-house and Custom-house
building at St. Paul, Minn., in accordance with draw-
ings and specification, copies of which may be had at
this office or at the office of the Superintendent at St.
Paul, Minn. Each bid must be accompanied by a
certified check for a sum not less than 2% of the
amount of the proposal. The right is reserved to
reject any or all bids and to waive any defect or in-
formality in any bid, should it be deemed in the
interest of the Government to do so. All proposals
received after the time stated for opening will be



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PROPOSALS.

returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Floor-arches, etc., for the United States Post-office, Court-house and Custom-house at St. Paul, Minn.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1090

CAR-HOUSE.

Proposals are wanted until November 13, for frame car-house with brick annex, on Neponset Ave., Dorchester. Plans, etc., at office of Master Mechanic, 439 Albany St., as above. Address C. S. SERGEANT, General Manager West End Street Railway Co., 61 Milk St., as above. 1089

HEATING AND VENTILATING.

Proposals are wanted until November 13, for heating and ventilating plant in primary school-house, Robinson St., Dorchester. Plans, etc., at office of A. Warren Gould, Architect, 178 Devonshire St., as above. Address SECRETARY OF SCHOOL COMMITTEE, Mason St., as above. 1089

SCHOOL-HOUSE.

Proposals are wanted until November 13, for brick grammar school-house, corner of Adams and King Sts., Dorchester. Plans, etc., at office of T. M. Clark, Architect, 22 Congress St. Address SECRETARY OF SCHOOL COMMITTEE, Mason St., as above. 1089

PROPOSALS.

TARY OF SCHOOL COMMITTEE, Mason St., as above. 1089

SCHOOL-HOUSE.

Proposals are wanted until November 13, for brick primary school-house, corner of Vernon and Auburn Sts., Roxbury. Plans, etc., at office of James Muleahy, Architect, 43 Milk St. Address SECRETARY OF SCHOOL COMMITTEE, Mason St., as above. 1089

GUN EMPLACEMENTS.

Proposals for building gun emplacements near mouth of Cape Fear River, N. C., will be received until 2 P. M., November 21, 1896, and then opened. For information apply to D. F. HEAF, Lt.-Col. Engineers. 1091

Treasury Department, Office Supervising Architect, Washington, D. C., October 24, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 20th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except heating apparatus) of the United States Post-office building at Saginaw, Mich., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent

PROPOSALS.

at Saginaw, Mich. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Erection and Completion of the United States Post-office at Saginaw, Mich.," and addressed to WM. MARTIN AIKEN, Supervising Architect. 1089

JAIL.

[At Atlanta, Ga.]
NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA.
ATLANTA, GA., September 19, 1896.

Sealed proposals will be received at this office until 12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 94 Peachtree Street.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 25 per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blanks furnished by the engineer, and enclosed in envelopes, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ, Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

C. A. COLLIER, Chairman,
FORREST ADAIR,
JOSEPH THOMPSON,
WALTER R. BROWN,
JACK J. SPALDING,
Commissioners of Roads and Revenues, Fulton County, Georgia.

FORREST ADAIR, Chairman,
WALTER R. BROWN,
JACK J. SPALDING,
Committee on Public Buildings.
A. L. KONTZ, Clerk, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

Topographical Index of Advertisers.

[For pagination, see Alphabetical Index on Cover 3.]

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New Britain.
The Stanley Works....[Wrought-Steel Butts.]

New Haven.

Fitch Co., The W. & E. T....[Sash Lock.]

Stamford.

Yale & Towne Mfg. Co....[Locks.]

DISTRICT OF COLUMBIA.

Washington.
Washington Patent Agency....[Patents.]

ILLINOIS.

Chicago.
American Radiator Co....[Radiators.]

Dauchy & Co....[Fan-Lights.]

Kelly, Thos. & Bros....[Sanitary Supplies.]

McCully Glass Company....[Stained-Glass.]

Northwestern Terra-Cotta Co....[Terra-Cotta.]

Pioneer Fireproof Construction Co....[Fireproofing.]

Reely, H. B....[Fireproof Floor.]

Taylor, J. W....[Photographs.]

The Winslow Bros. Co....[Ornamental Iron.]

Tiffany Pressed Brick Co....[Brick.]

INDIANA.

Bedford.
Bedford Quarries Co....[Stones.]

Brightwood.

Indianapolis Terra-Cotta Co....[Terra-Cotta.]

Indianapolis.

Dean Bros....[Pumps.]

Interior Hardwood Co....[Hardwood Floors.]

Lilly, Jno. M....[Mosaic Floors.]

KENTUCKY.

Louisville.
Snead & Co. Iron Works....[Iron Work.]

MAINE.

Calais.
New Brunswick Red Granite Co....[Red Granite.]

Red Beach.

Malise Red Granite Co....[Red Granite.]

MASSACHUSETTS.

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Butcher Polish Co....[Floor Polish.]

Cabot, S....[Shingle-Stains.]

Dexter Bros....[Shingle Stains.]

Farguhar's Sons, John....[Roofers.]

Frost & Adams Co....[Snow Guards.]

Gurney Heater Mfg. Co....[Hot water, etc.]

Haberstroh & Son, L....[Decorators.]

Heliotype Printing Co....[Art Printing.]

Massachusetts Fan Co....[Fanning Fans.]

Moore & Wyman....[Elevators.]

New England Felt Roofing Works....[Roofing.]

Samson Cordage Works....[Sash-Cord.]

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Spaulding Print Paper Co....[Blue Prints.]

Waldo Bros....[Meat-Supplies.]

Whittier Machine Co....[Elevators.]

Worthley, F. O....[Oat Manger.]

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Flynt Building & Construction Co....[Building Contractors.]

Springfield.

Elektron Mfg. Co....[Elevators.]

Webster.

Prescott & Son, J. B....[Wall-tie.]

MARYLAND.

Baltimore.
Baltimore Terra-Cotta Co....[Terra-Cotta.]

Vaile & Young....[Sightlights.]

MISSOURI.

St. Louis.
Hydraulic-Press Brick Co....[Bricks.]

Ludlow Saylor Wire Co....[Art Metal-Work.]

NEW JERSEY.

Beach Haven.
Sherborne, C. E....[Perspectives.]

Camden.

Montross Metal Shingle Co....[Metal Shingles.]

Jersey City.

Dixon Crucible Co. Jos....[Graphite.]

National Sheet Metal Roofing Co....[Metal Shingles.]

Newark.

Murphy Varnish Co....[Varnish.]

Storm Mfg. Co....[Dumb Waiters.]

Paterson.

Panasic Rolling Mill Co....[Structural Iron.]

Perth Amboy.

Perth Amboy Terra-Cotta Co....[Terra-Cotta.]

Trenton.

N. J. Steel & Iron Co....[Iron.]

New Jersey Wire Cloth Co....[Metallic Lath.]

NEW YORK.

Brooklyn.
Chrome Steel Works....[Chrome Steel.]

Irrington-on-Hudson.

Lord & Burnham Co....[Conservatories.]

New York City.

Aeschlimann & Pellarin....[Marble Monuments.]

Allen's Cement Works....[Cements.]

American Boiler Co....[Heating Apparatus.]

NEW YORK.

Armstrong & Co., Maitland....[Stained-Glass.]

Babcock & Wilcox....[Boilers.]

Bicklehoupt, G....[Sightlights.]

Brooks, Shoorbridge & Co....[Cements.]

Caffall Bros....[Waterproofing.]

Clark, Burnett & Co....[Ceiling Shutters.]

Columbia College....[School of Architecture.]

Continental Insurance....[Insurance.]

Deane, E. Eldon....[Colorist.]

Devos & Co., F. W....[Paints.]

Fisher & Co., Robert C....[Marble.]

Freedlander, J. H....[School of Architecture.]

Frank, I. P....[Reflectors.]

Galt & Sons, John....[Roofing Slate.]

Gorton & Lidgerwood Co....[Metallic Lathing.]

Hessling, Bruno....[Architectural and Decorative Works.]

Hill, George....[Consulting Engineer.]

Hitchings & Co....[Greenhouses.]

Jackson & Co., Wm. H....[Grates.]

Jackson Architectural Iron Works [Iron Work.]

Jacobson Manufacturing Co....[Ceiling and Wall Decorations.]

Jenkins Bros....[Abolition.]

Johns Mfg. Co., H. W....[Vases.]

Jones, T. W....[Refrigerators.]

Lorillard Refrigerator Co....[Refrigerators.]

Lowinson Chen....[Civil Engineers.]

Maurer & Son, Henry....[Fireproofing.]

Miller & Coates....[Bath-Tubs.]

Mott Iron Works, J. L....[Bath-Tubs.]

National Wood Mfg. Co....[Inlaid Floors.]

Neuchatel Asphalt Co....[Asphalt.]

N. Y. Architectural Terra-Cotta Co....[Terra-Cotta.]

New York Mastic Works....[Asphalt.]

N. Y. Metal Ceiling Co....[Metal Ceilings.]

Okente Co. (Ltd.)....[Insulating Wire.]

Orrander & Co., W. B....[Annunciators.]

Osie Bros. & Co....[Elevators.]

Pitt, W. R....[Folding Gates.]

Raritan Hollow & Porous Brick Co....[Fireproofing.]

Sargent & Co....[Builders' Hardware.]

Smith Co., H. B....[Steam Heat.]

Smith & Co., Edward....[Varnishes.]

Thiele, E....[Portland Cement.]

United States Mineral Wool Co....[Mineral Wool.]

Warren Chemical & Mfg. Co....[Wrought Metal.]

Wilson, Jas. G....[Ceiling-Shutters.]

Worthington, Henry R....[Pumps.]

Port Chester.

Mert's Sons George....[Art Mouldings.]

Potsdam.

Potsdam Red Sandstone Co....[Building Stone.]

Poughkeepsie.

Lea Bros....[Door Hangers.]

Mitchell Heater Co....[Heating Apparatus.]

Rochester.

Lea Bros....[Mail Chutes.]

Graves Elevator Co....[Elevators.]

Wood-Mosaic Co....[Hardwood Floors.]

NEW YORK.

Schenectady.
General Electric Co....[Electrical Equipments.]

Syracuse.

Stearns & Co., E. C....[Parlor Door Hangers.]

Troy.

Globe Ventilator Co....[Vent-Integr.]

Troy Laundry Machinery Co....[Washing Machines.]

OHIO.

Cleveland.
Brooks, T. H. & Co....[Sidewalk Lights.]

Cudell, F. E....[Traps.]

Van Wagoner & Williams Hardware Co....[Spring Hinges.]

Toledo.

Toney Water-Heater & Mfg. Co....[Automatic Water-Heater.]

PENNSYLVANIA.

Ambler.
Kearney & Mattison Co....[Magnesia Covering.]

Bangor.

Bangor Roofing Slate Mfrs. Assn....[Roofing Slate.]

Easton.

Bangor Excelsior Slate Co....[Roofing Slate.]

Harrisburg.

Harrisburg Fnd'y & Machine Wks. [Engines.]

Philadelphia.

Baily & Truscott....[Architects.]

Belmont Iron Works....[Ironwork.]

French & Co., Samuel H....[Mortar Colors.]

Haines, Jones & Cadbury Co....[Plumber's Supplies.]

Hall & Co., Edwin....[Cement.]

Jordan Brick Co....[Bricks.]

Manning, W. T....[Filters.]

Merchant & Co....[Tin Roofing.]

Morris, Williams & Co....[Elevators.]

Pennix Iron Co....[Structural Iron.]

Taylor Co., N. & G....[Tin.]

Thorn, J. S. Co....[Sheet Metal.]

Thorn Shingles & Ornamental Co....[Metallic Shingles.]

Pittsburgh.

Apollo Iron and Steel Co....[Galvanized Iron.]

Follansbee Bros. Co....[Roofing Materials.]

Miller Co., W. Gordon....[Traps.]

Northrop & Co., A....[Metal Ceiling.]

Pittsburgh Terra-Cotta Lumber Co....[Fireproofing.]

Scranton.

International Correspondence Schools, The [Architecture.]

[illegible]

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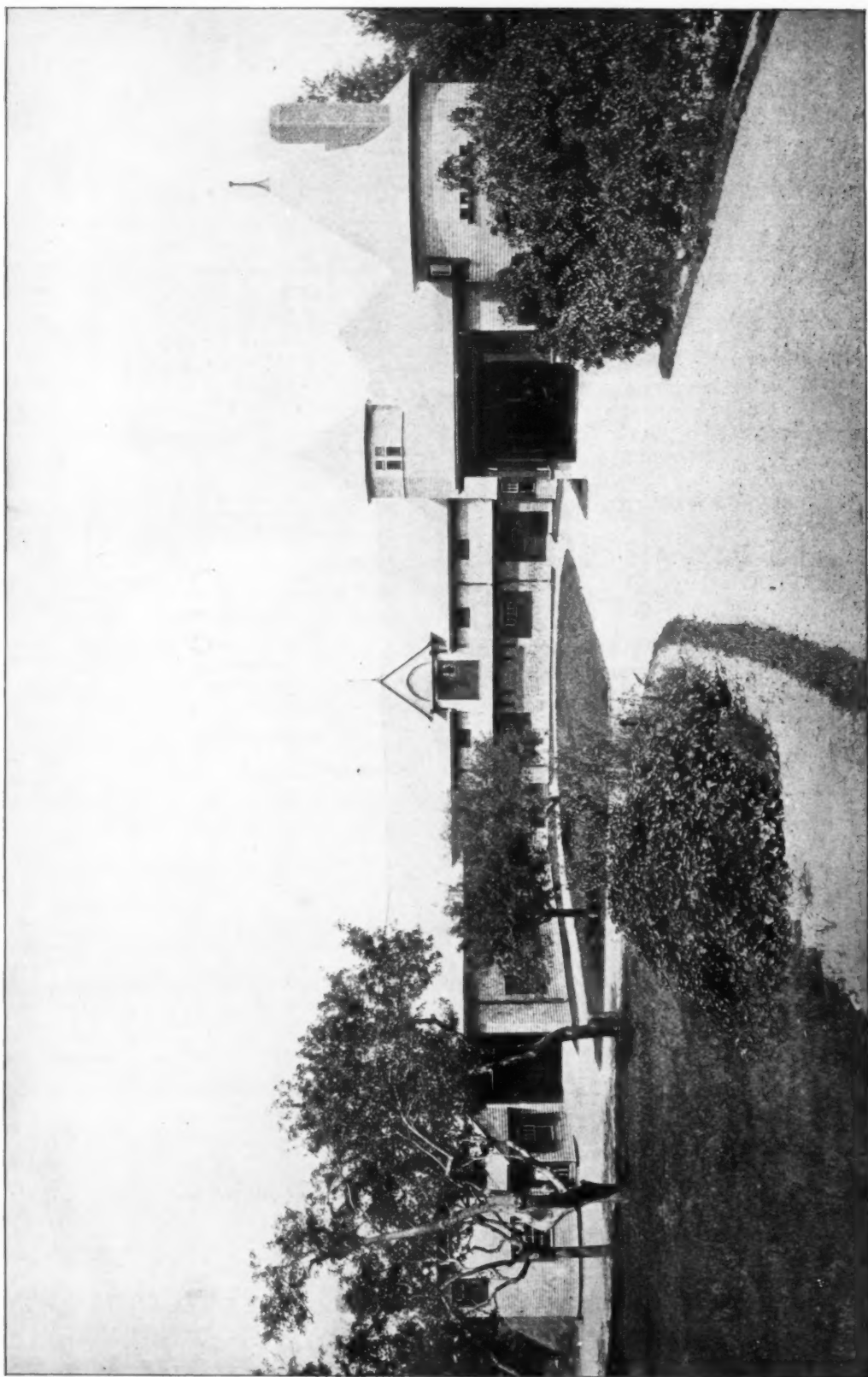
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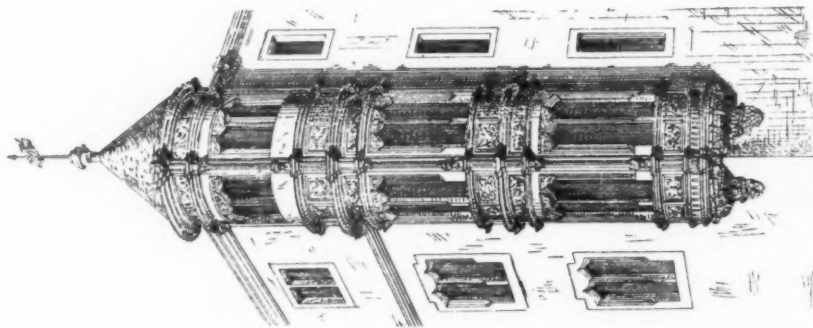
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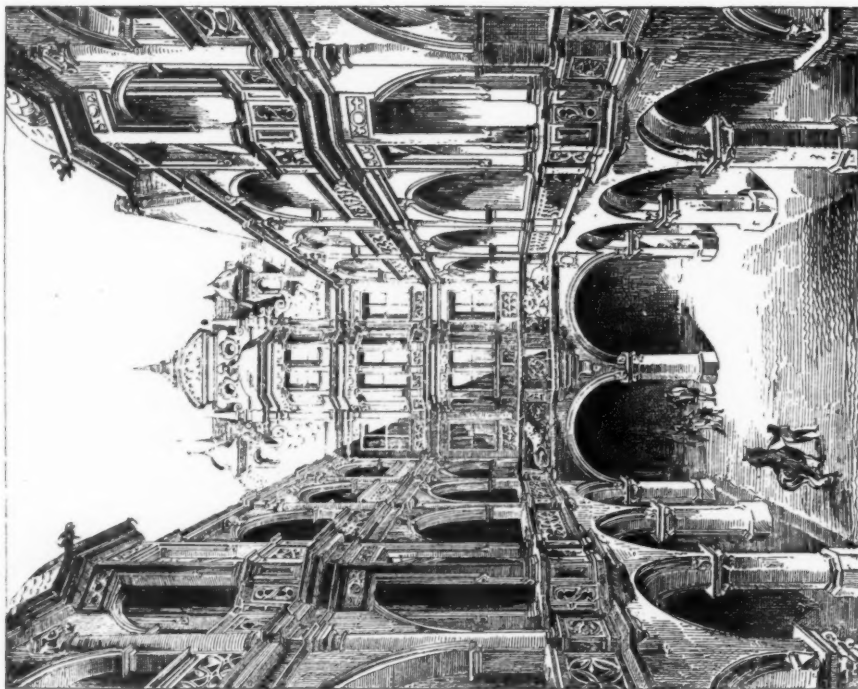
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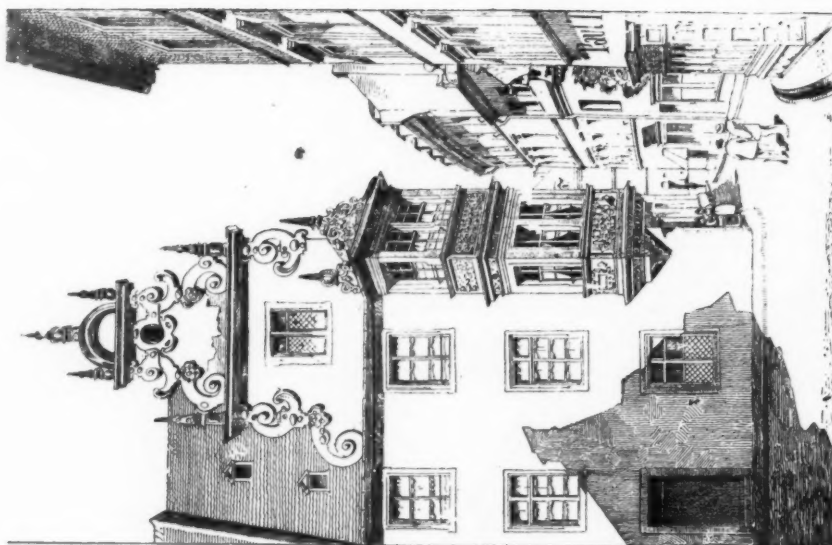
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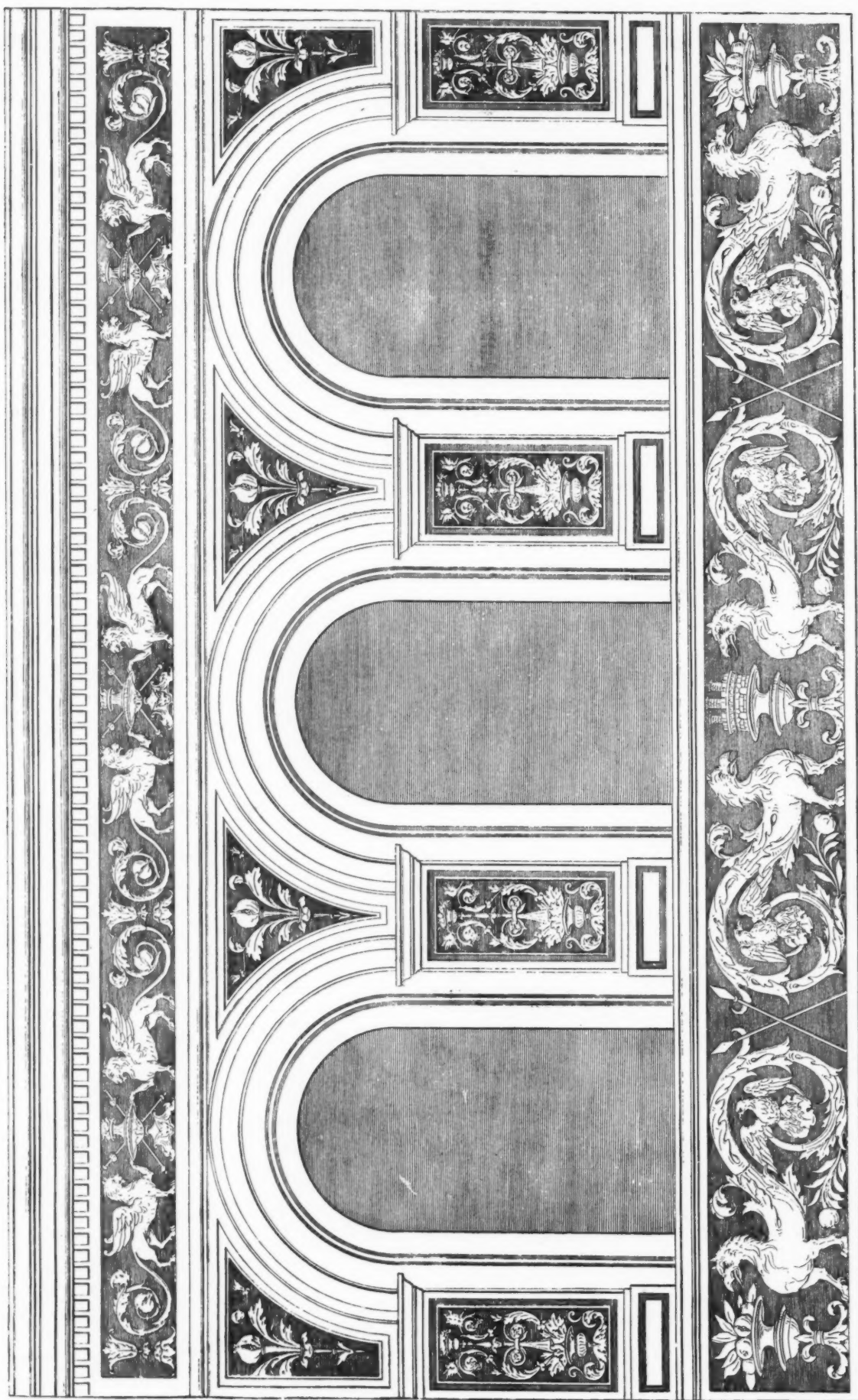
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BUILDING INTELLIGENCE.

(Houses Continued.)

Eighty-fifth St., n. s. 250' w Fort Hamilton Ave.,
two-sty frame dwell., 25' 8" x 32', shingle
roof; \$5,000; own., Wm. L. Johnson, 38 Third Pl.;
arch., John J. Pettit, 186 Remsen St.; bld., A. and
E. Gariepy, 15 Spencer St.Cambridge, Mass. - Raymond St., two-and-one-half-
sty frame dwell., 38' x 38', pitch roof, furnace;
\$4,800; own., W. C. Holt, 7 Walnut Ave.; bld., B.
N. Merrill.Walden and Mt. Pleasant Sts., two-and-one-half-
sty frame dwell., 32' x 52', hip roof, furnace; \$8,000;
own. and bld., Israel Nesson, 57 Market St.Francis Ave., two-and-one-half-ty frame dwell.,
30' x 30', pitch roof; \$9,000; own., Wm. M. Davis,
Bond St.; bld., Brigg Bros.; arch., C. H. McClure.Chicago, Ill. - T. O. Gorman, 3 three-sty brick
dwell., 838-46 Sixty-fourth St.; \$3,000.Prof. W. C. Wilkinson, three-sty brick dwell.,
5630 Woodlawn Ave.; \$9,000.Mrs. C. M. Card, three-sty brick dwell., 4850
Washington Ave.; \$10,000.Samuel Halla, 2 two-sty brick dwell., 1629-31
West Adams St.; \$19,000.Denver, Col. - Logan St., No. 1153, three-sty brick
dwell.; \$18,000; own. and arch., H. M. Joralemon.Everett, Mass. - Linden St., two-and-one-half-ty
frame dwell., 27' x 27', pitch roof, furnace; \$3,500;
own., R. T. Green, 10 Hancock St.; bld., Henderson
Bros.Prospect St., two-and-one-half-ty frame dwell.,
29' x 29', pitch roof, furnace; \$3,500; own., Charles
L. Paine and J. E. Freeman; bld., Samuel Paine, 2
Elmwood Pl.Germantown, Pa. - Franklin St., s. w. s. w Pelham
St., 2 two-sty brick and stone dwell., 14' x 32';
own., D. G. Liddell, 166 Franklin St.Great Falls, Mont. - North Third Ave. and Sixth
St., two-and-one-half-ty frame and stone dwell.;
\$7,500; own., H. S. Skinner; arch., Wm. White Co.Harrington Park, N. J. - Dwell.; \$6,000; own.,
Dr. J. E. Giles; arch., Frank Wasler, 71 Broadway,
New York City.

Lansdowne, Pa. - Two three-sty stone and brick

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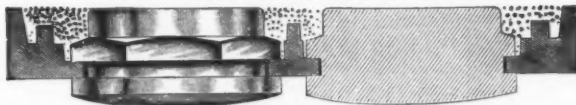
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BUILDING INTELLIGENCE.

(Houses Continued.)

dwells., 26' x 60', shingle roof; own., Dr. Guilford,
1724 Chestnut St., Philadelphia; arch., Morgan
Bunting, 1215 Filbert St., Philadelphia.Malden, Mass. - Salem and Laurel Sts., 2 two-and-
one-half-ty frame dwell., 25' x 25', pitch roofs,
furnaces; \$10,000; own. and bld., R. V. Allen, on
premises.Cross St., two-sty frame dwell., 26' x 26', pitch
roof, furnace; \$4,000; own., Abbie F. Smith, 123
Cross St.; bld., Wm. Wood; arch., Geo. H. Wood,
380 Main St., West Everett.Judson St., two-and-one-half-ty frame dwell., 24'
x 24', pitch roof, furnace; \$5,500; own., F. E. Free-
man, 46 Judson St.; bld., George R. Lewis.Medford, Mass. - Hancock St., two-sty frame dwell.,
25' x 25', pitch roof, furnace; \$5,000; own., C. D.
Bacon, Joseph St.; bld., W. S. Johnston.New Rochelle, N. Y. - Central Ave., two-and-one-
half-ty frame dwell., 38' x 40'; \$5,000; own., Mrs.
M. K. Le Fevre; bld., George Watson.Newton, Mass. - Homer St., two-sty frame dwell.,
40' x 40', pitch roof, furnace; \$6,500; own., W. B.
Young, Lake Ave.; bld., Combs & Mosher.Oxford St., two-sty frame dwell., 27' x 37', hip
roof, furnace; \$15,000; own., E. A. Isenberg; bld.,
L. D. Bouclair & Son, Parker St.Park St., two-sty frame dwell., 43' x 63', pitch
roof, furnace; \$10,000; own., Frank H. Howes, 36
Billing Park; bld., David J. McKelvin; arch., Loring
& Phipps, Boston.Park St., two-sty frame dwell., 47' x 64', pitch
roof, furnace; \$25,000; own., Henry Wait, Otis St.;
bld., A. Fales & Son; arch., Ernest N. Boyden, 35
Congress St., Boston.Philadelphia, Pa. - Pine and Forty second Sts., 5
three-sty and basement stone and brick dwell., 18'
x 60'; cost about \$30,000; arch., J. C. Newson, 1001
Chestnut St.Ontario St., n. s. e G St., two-sty brick dwell., 15'
x 42'; own., W. H. Magee, 2840 Kipp St.Leithgow St., bel. Diamond St., three-sty brick
dwell., 16' x 42'; own., George Kessler, 1543 Perth
St.Tioga St., n. s. w Germantown Ave., 3 three-sty
brick dwell., 15' x 44'; own., J. K. Slifer, 3500 Ger-
mantown Ave.Brown St., bet. 45th and 46th Sts., 2 two-sty brick
dwell., 14' x 60'; con., Charles Smith & Son, 4215
Haverford Ave.Old Second St. Pike, nr. Cheltenham St., three-
sty brick dwell., 30' x 31'; con., Burd P. Evans, 5031
Knox St., Germantown.Spring Garden St., s. e cor. 39th St., three-sty
brick dwell., 22' x 64'; own., J. K. Little, 646 North
40th St.Kensington Ave., No. 2731, two-sty brick dwell.,
19' x 31'; con., Peter Hoffman, 1908 East Ontario
St.Rising Sun Ave., s. w cor. 8th St., three-sty brick
dwell., 20' x 34'; own., Jas. H. Dorff, Venango St.,
s. e cor. 8th St.Seventeenth St., s. s. e Millin St., two-sty brick
dwell., 16' x 49'; con., W. Seeburger, 1256 South 22d
St.Evans St., s. s. e Federal St., 3 three-sty brick
dwell., 14' x 16'; own., Charles McCarthney, 1120
McClellan St.Frankford St., s. w cor. Montgomery Ave., two-
sty brick dwell., 29' x 28'; own., Henry McMillan,
Frankford and Montgomery Aves.Willow Ave., s. w cor. 51st St., two-sty brick
dwell., 21' x 54'; con., George Edge, 5102 Willow
Ave.Hilton St., n. e cor. 67th St., two-sty brick dwell.,
14' x 40'; con., Sundgard & Meyers, 803 East Alle-
gheny Ave.Tabor Road, n. s. e 3d St., dwell., 16' x 52'; con.,
Joseph T. Roberts, 2135 Darien St.Ninth St., n. s. Indiana Ave., 28 two-sty brick
dwell., 15' x 48'; con., John Loughran, 2238 North
Broad St.Frankford Ave., No. 5523, two-sty brick dwell.,
16' x 50'; con., George Shock, 1614 Hancock St.Pittsburgh, Pa. - Four two-sty stone and brick
dwell. will be built on the George W. Reed estate
at a cost of about \$20,000; con., Golden & Crick,
3512 Fifth Ave.A dwell. will be built to cost about \$13,000; own.,
T. F. Straub, East End; con., Benz Bros.The contract for a dwell. to cost \$10,000 has been
awarded to Benz Bros.; own., Jno. C. Fisher.Bayard St., dwell.; \$12,000; own., Mrs. Eliza
Wilson; con., A. and S. Wilson; arch., Alden &
Harlow, Vandergrift Building.

BUILDING INTELLIGENCE.

(Houses Continued.)

The contract for a dwell. to cost about \$7,500 has
been awarded to T. J. Williams, 5117 South Atlantic
Ave.; own., Henry Steinhauer.Princeton, N. J. - Frame dwell.; \$5,000; own., Mrs.
James Burke; arch., Slack & Hill, 40 East State St.,
Trenton.Quincy, Mass. - Goffe St., two-and-one-half-ty
frame dwell., 31' x 42', gambrel roof, furnace;
\$7,000; own., A. F. Schenkelberger, Adams St.;
bld., H. B. Oakman's Sons, Naponset; arch., J.
Everett Chandler, 85 Devonshire St., Boston.Salem, Mass. - Two-and-one-half-ty frame dwell.,
20' x 25', pitch roof, stoves; \$5,000; own., Patrick
H. Sweeney, 37 Hanson St.; arch., J. Foster.Seabright, N. J. - Frame dwell.; \$5,000; own., Wm.
A. Smith; arch., Jacques Vanderbeek, Somerville,
N. J.South Norwalk, Conn. - Edwards St., nr. Whitney
Ave., two-and-one-half-ty brick dwell., 35' x 50';
\$9,000; own., Prof. F. A. Gooch; con., Ritchie &
Johnson; arch., R. Clifton Sturges, 19 Exchange
Pl., Boston.Washington, D. C. - Fourteenth St., N. W., No.
1018, four-sty brick dwell.; \$18,000; own., Dr. Frank
A. Gardner; bld., A. B. Crowell; arch., J. Marsh.Tenth St., N. W., Nos. 305-307, three-sty brick
dwell.; \$10,000; own., M. Gatti and Mrs. A. Reiter;
arch., F. J. Ettinger; not let.G St., N. W., No. 2110, three-sty and basement
brick dwell.; \$6,500; own., Mary J. McAllister;
bld., Samuel Beale; arch., Waddy B. Wood.

OFFICE-BUILDINGS.

Boston, Mass. - State St., No. 27, eleven-sty stone,
terra cotta, iron and steel office-building; own., F.
H. Russell, Moses Williams, A. H. Russell, Trus-
tees; con., George A. Fuller Construction Co., Chi-
cago, Ill.; arch., Cass Gilbert, St. Paul, Minn.

STABLES.

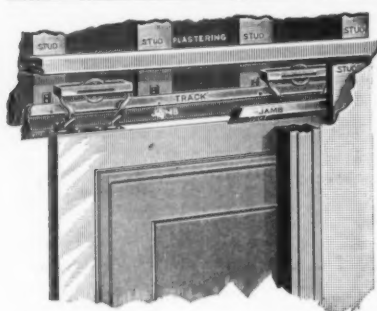
Atlantic City, N. J. - South Massachusetts Ave.,
three-sty brick livery-stable; \$15,000; own., Chas.
K. Smith, Philadelphia; con., Daniel Knauer.Boston, Mass. - Morton St., nr. Codman St., Ward
24, one-and-one-half-ty frame stable, 18' x 26',
pitch roof; \$300; own., John C. Halden; bld., Benj.
J. Rafter.Cambridge, Mass. - Portland St., No. 27, two-
sty frame stable, 36' x 36', flat roof, stoves; \$1,000;
own., D. F. Donovan & Co.; bld., John A. McIsaac;
arch., E. T. Harrington.Cambridge and Trowbridge Sts., one-and-one-half-
sty frame stable, 23' x 23', pitch roof, stoves; \$2,000;
own., Ernest Flentz, 401 Columbia St.; bld., E. F.
Curran; arch., W. E. Clarke.Chicago, Ill. - H. Matthews, two-sty brick barn,
1146 Douglas Park Boulevard; \$1,500.F. W. Zintmeister & Son, three-sty brick barn,
19-21 Blair St.; \$4,500.Stratton & Buschwah, two-sty brick livery barn,
211-213 Evanston Ave.; \$6,000.Jersey City, N. J. - Two-sty brick stable and car-
riage-house; \$4,000; own., C. F. Kyte, M. D., 316
Pavonia Ave.; arch., Scott, Edelsvard & Fortin, New
York City.Malden, Mass. - Malden St., No. 43, one-and-one-
half-ty frame stable, 20' x 20', pitch roof; \$500;
own., James Nolan, on premises.Newton, Mass. - Needham St., one-and-one-half-ty
frame stable, 32' x 53', flat roof; \$700; own., U. W.
Sherman, Lincoln St.; bld., W. B. McMullen.Hartford St., one-and-one-half-ty frame stable,
24' x 32', stoves; \$1,000; own., Nelson Amsden, 50
Hartford St.; bld., Joseph Withers.

COMPETITIONS.

FOR Programmes of Competitions of Society of
Beaux-Arts Architects for 1896-97, see American
Architect for October 17 and 24, 1896.

PROPOSALS.

Treasury Department, Office Supervising Architect,
Washington, D. C., November 9, 1896. Sealed propo-
sals will be received at this office until 2 o'clock p. m.
on the 22d day of December, 1896, and opened im-
mediately thereafter, for all the labor and materials
required for the low-pressure, return-circulation,
steam-heating and ventilating apparatus and power-
boiler for the United States Marine Hospital building
at Port Townsend, Wash., in accordance with the
drawings and specification, copies of which may be
had at this office or the office of the Custodian at



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PROPOSALS.

Port Townsend, Wash. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1091

HEATING AND VENTILATING.

[At Newton, Mass.]
Proposals are wanted until November 30, for heating and ventilating Newton High school-house. Plans, etc., at office of S. H. Woodbridge, 85 Water St., Boston. Address GEORGE H. ELDER, Supt. of Public Buildings, Newton. 1091

HOSPITAL BUILDING.

[At Brooklyn, N. Y.]
Proposals are wanted until December 1, for building at United States Naval Hospital. Plans, etc., at said hospital or as below. Address J. R. TRYON, Chief of Bureau of Medicine and Surgery, U. S. Navy Dept., Washington, D. C. 1091

ALTERATIONS TO STABLE.

[At Boston, Mass.]
Proposals are wanted until November 17, for alterations at Water Board Stable, Albany St., Plans, etc., at office of Architect Division Public Buildings

PROPOSALS.

Department, City-hall. Address FRED. B. BOGAN, Superintendent Public Buildings, as above. 1090

HOSPITAL.

[At Passaic, N. J.]
Proposals are wanted until November 19, for the Passaic Hospital Buildings. Address FRED. W. WENTWORTH, Architect, 25 Paterson National Bank Building, Paterson, N. J. 1090

GUN EMPLACEMENTS.

[Near Cape Fear River, N. C.]
United States Engineer Office, Wilmington, N. C., October 20, 1896. Proposals for building gun emplacements near mouth of Cape Fear River, N. C., will be received until 2 P. M., November 21, 1896, and then opened. For information apply to D. P. HEAP, Lt.-Col. Engineers. 1091

Treasury Department, Office Supervising Architect, Washington, D. C., November 2, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 1st day of December, 1896, and opened immediately thereafter, for all the labor and materials required for the floor-arches, etc., for the United States Post-office, Court-house and Custom-house building at St. Paul, Minn., in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent at St. Paul, Minn. Each bid must be accompanied by a

PROPOSALS.

certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Floor-arches, etc., for the United States Post-office, Court-house and Custom-house at St. Paul, Minn." and addressed to WM. MARTIN AIKEN, Supervising Architect. 1090

JAIL.

[At Atlanta, Ga.]
NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA.
ATLANTA, GA., September 19, 1896.

Sealed proposals will be received at this office until 12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 9 Peachtree Street.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 2 1/2 per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blanks furnished by the engineer, and enclosed in envelopes, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ, Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

C. A. COLLIER, Chairman,
FORREST ADAIR,
JOSEPH THOMPSON,
WALTER R. BROWN,
JACK J. SPALDING,
Commissioners of Roads and Revenues, Fulton County, Georgia.

FORREST ADAIR, Chairman,
WALTER R. BROWN,
JACK J. SPALDING,
Committee on Public Buildings.
A. L. KONTZ, Clerk, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

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New Haven.
Fitch Co., The W. & E. T.....[Sash Lock].
Stamford.
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DISTRICT OF COLUMBIA.

Washington.
Washington Patent Agency.....[Patents].

ILLINOIS.

Chicago.
American Radiator Co.....[Radiators].
Dauby & Co.....[Vault-Lights].
Kelly, Thos. & Bro.....[Sanitary Supplies].
McCully Glass Company.....[Station-Glass].
Northwestern Terra-Cotta Co.....[Terra-Cotta].
Pioneer Fireproof Construction Co.....[Fire-proofing].
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Tiffany Enamelled Brick Co.....[Brick].

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Indianapolis Terra-Cotta Co.....[Terra-Cotta].

Indianapolis.
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Calais.
New Brunswick Red Granite Co.....[Red Granite].
Red Beach.
Maine Red Granite Co.....[Red Granite].

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Boston.
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Heliotype Printing Co.....[Art Printing].
Massachusetts Fan Co.....[Ventilating Fan].
Moore & Wyman.....[Elevators].
New England Felt Roofing Works.....[Roofing].
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Spaulding Print Paper Co.....[Blue Prints].
Waldo Bros.....[Masons' Supplies].
Whittier Machine Co.....[Elevators].
Worthley, F. O.....[Out Manger].

CLINTON.

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Palmer.

Flynt Building & Construction Co.....[Building Contractors].

Springfield.

Elektron Mfg. Co.....[Elevators].

Webster.

Prescott & Son, J. B.....[Wall-tie].

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St. Louis.
Hydraulic-Press Brick Co.....[Bricks].
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Sherborne, C. E.....[Perspectives].

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National Sheet Metal Roofing Co.....[Metal Shingles].

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Passaic Rolling Mill Co.....[Structural Iron].

Perth Amboy.

Perth Amboy Terra-Cotta Co.....[Terra-Cotta].

Trenton.

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New Jersey Wire Cloth Co.....[Metallic Lath].

NEW YORK.

Brooklyn.
Brooklyn Steel Works.....[Chrome Steel].
Irvington-on-Hudson.
Lord & Burnham Co.....[Conservatories].

New York City.

Aeschlimann & Pellarin.....[Marble Monuments].
Allen's Cement Works.....[Cements].
American Boiler Co.....[Heating Apparatus].
Armstrong & Co., Maitland.....[Stained-Glass].

NEW YORK.

Babcock & Wilcox.....[Boilers].
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Jackson Architectural Iron Works.....[Iron Work].
Jacobson Manufacturing Co.....[Ceiling and Wall Decorations].
Jenkins Bros.....[Valves].
Johns Mfg. Co., H. W.....[Asbestos].
Jones, T. W.....[Fans].
Lorillard Refrigerator Co.....[Refrigerators].
Lowinson Oseal.....[Civil Engineers].
Maurer & Son, Henry.....[Fireproofing].
Miles & Coates.....[Bath-Tubs].
Mott Iron Works, J. L.....[Bath-Tubs].
National Wood Mfg. Co.....[Unlaid Floors].
Schenck Asphaltic Co.....[Asphalt].
N. Y. Architectural Terra-Cotta Co.....[Terra-Cotta].

New York Mastic Works.....[Asphalt].
N. Y. Metal Ceiling Co.....[Metal Ceilings].
Okonite Co. (Ltd.).....[Insulated Wire].
Ostrander & Co., W. R.....[Assessors].
Otis Bros. & Co.....[Elevators].
Pitt, W. B.....[Folding-Gates].
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Sargent & Co.....[Builders' Hardware].
Smith Co., H. B.....[Steam Heat].
Smith & Co., Edward.....[Furnishes].
Thiele, E.....[Portland Cement].
United States Mineral Wool Co.....[Mineral Wool].
Warren Chemical & Mfg. Co.....[Asphalt Roofing].
Williams, John.....[Wrought Metal].
Wilson, Jas. G.....[Rolling-Shutters].
Worthington, Henry R.....[Pumps].

Port Chester.

Merta's Sons, George.....[Art Mouldings].

Potsdam.

Potsdam Red Sandstone Co.....[Building Stone].

Poughkeepsie.

Lane Bros.....[Door Hangers].
Mitchell Heater Co.....[Heating Apparatus].

Rochester.

Cutler Mfg. Co.....[Mail Chutes].
Graves Elevator Co.....[Elevators].
Wood-Mosaic Co.....[Hardwood Floors].

Rome.

Wilson, R. M.....[Bath tubs].

NEW YORK.

Schenectady.
General Electric Co.....[Electrical Equipments].

Syracuse.

Stearns & Co., E. C.....[Parlor Door Hangers].

Troy.

Globe Ventilator Co.....[Ventilators].
Troy Laundry Machine Co.....[Washing Machines].

OHIO.

Cleveland.
Brooks, T. H. & Co.....[Sidewalk Lights].
Cudell, F. E.....[Traps].
Van Wagoner & Williams Hardware Co.....[Spring Hinges].

Toledo.
Tobey Water-heater & Mfg. Co.....[Automatic Water-heater].

PENNSYLVANIA.

Ambler.
Kearney & Mattison Co.....[Magnesia Covering].

Bangor.

Bangor Roofing Slate Mfrs. Assn.....[Roofing Slate].

Easton.

Bangor Excelsior Slate Co.....[Roofing Slate].

Harrisburg.

Harrisburg En'dy & Machine W'ks.....[Engines].

Philadelphia.

Baily & Truett.....[Architects].
Belmont Iron Works.....[Ironwork].
French & Co., Samuel H.....[Mortar Colors].
Haines, Jones & Cadbury Co.....[Plumber's Supplies].
Hall & Co., Edwin.....[Cement].
Jarden Brick Co.....[Bricks].
Manning, W. T.....[Filters].
Merchant & Co.....[The Roofing].
Morse, Williams & Co.....[Elevators].
Phoenix Iron Co.....[Structural Iron].
Taylor Co., N. & G.....[Sheet Metal].
Thorn, J. S. Co.....[Sheet Metal].
Thorn Shingle & Ornament Co.....[Metallic Shingles].

Pittsburgh.

Apollo Iron and Steel Co.....[Galvanized Iron].
Follanbee Bros. Co.....[Roofing Materials].
Miller Co., W. Gordon.....[Traps].
Northrop & Co., A.....[Metal Ceiling].
Pittsburgh Terra-Cotta Lumber Co.....[Fireproofing].

Scranton.

International Correspondence Schools, The.....[Architecture].

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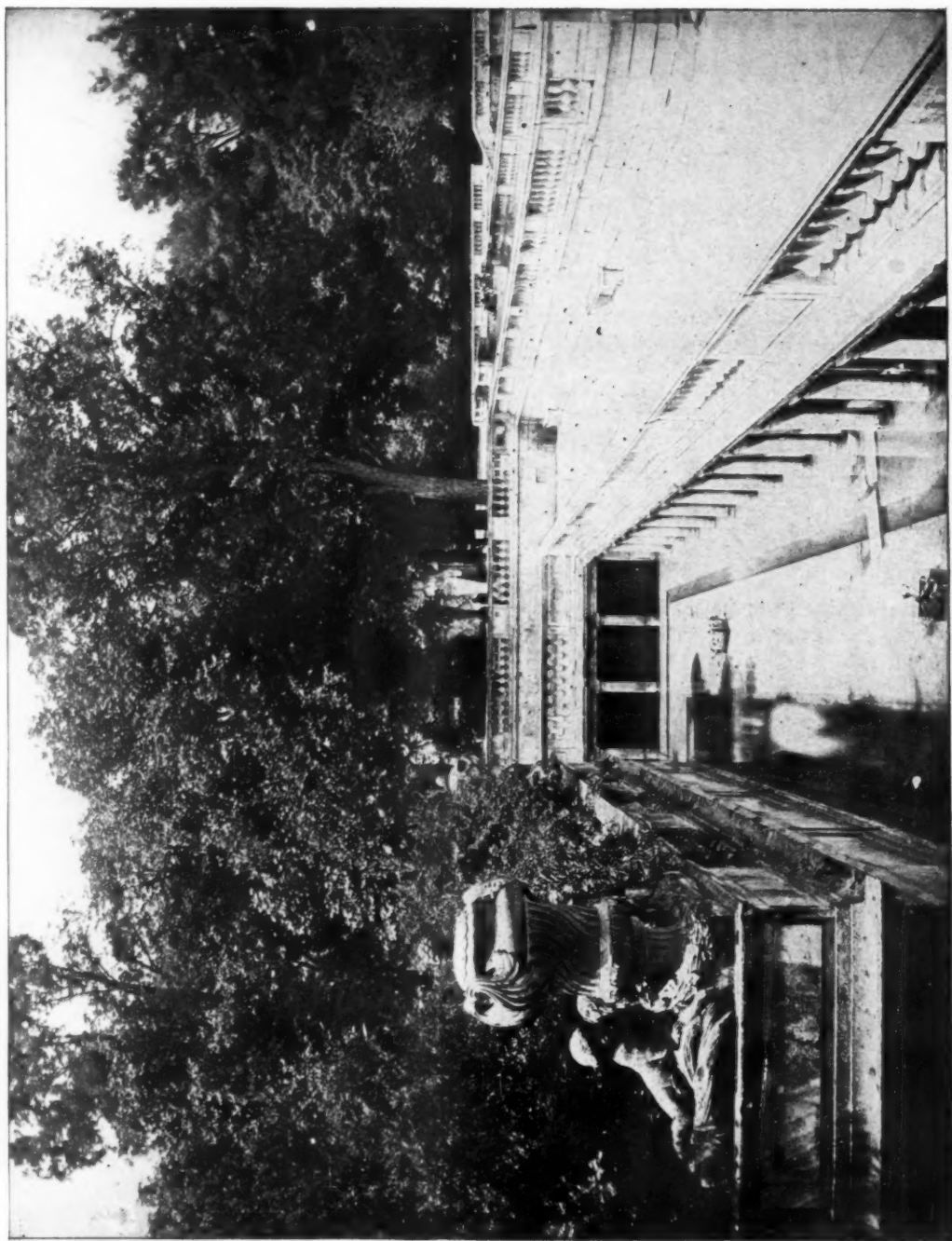
152-154 Wabash Ave., Chicago.

Local Offices:

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ACCESSORIES OF LANDSCAPE ARCHITECTURE. NO. XXXV.



THE ROMAN BATHS, NÎMES, FRANCE.

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caused by the absorption of moisture and the alternate freezing and thawing thereof in winter, can be prevented by the use of

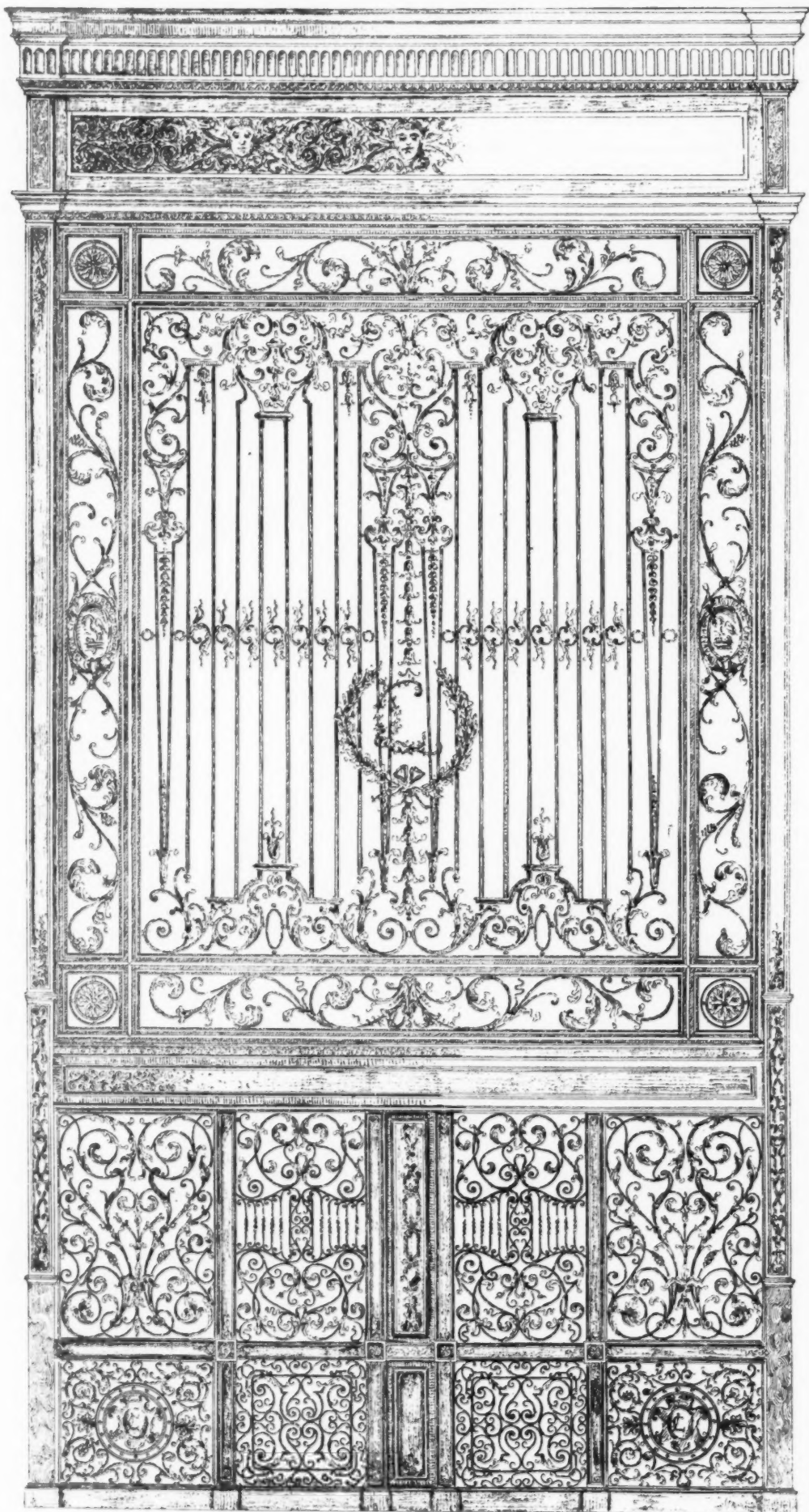
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which completely and permanently waterproofs brickwork. One coat waterproofs as thoroughly as three of linseed oil, and while oil has to be re-applied frequently, our material is perdurable and never needs renewal.

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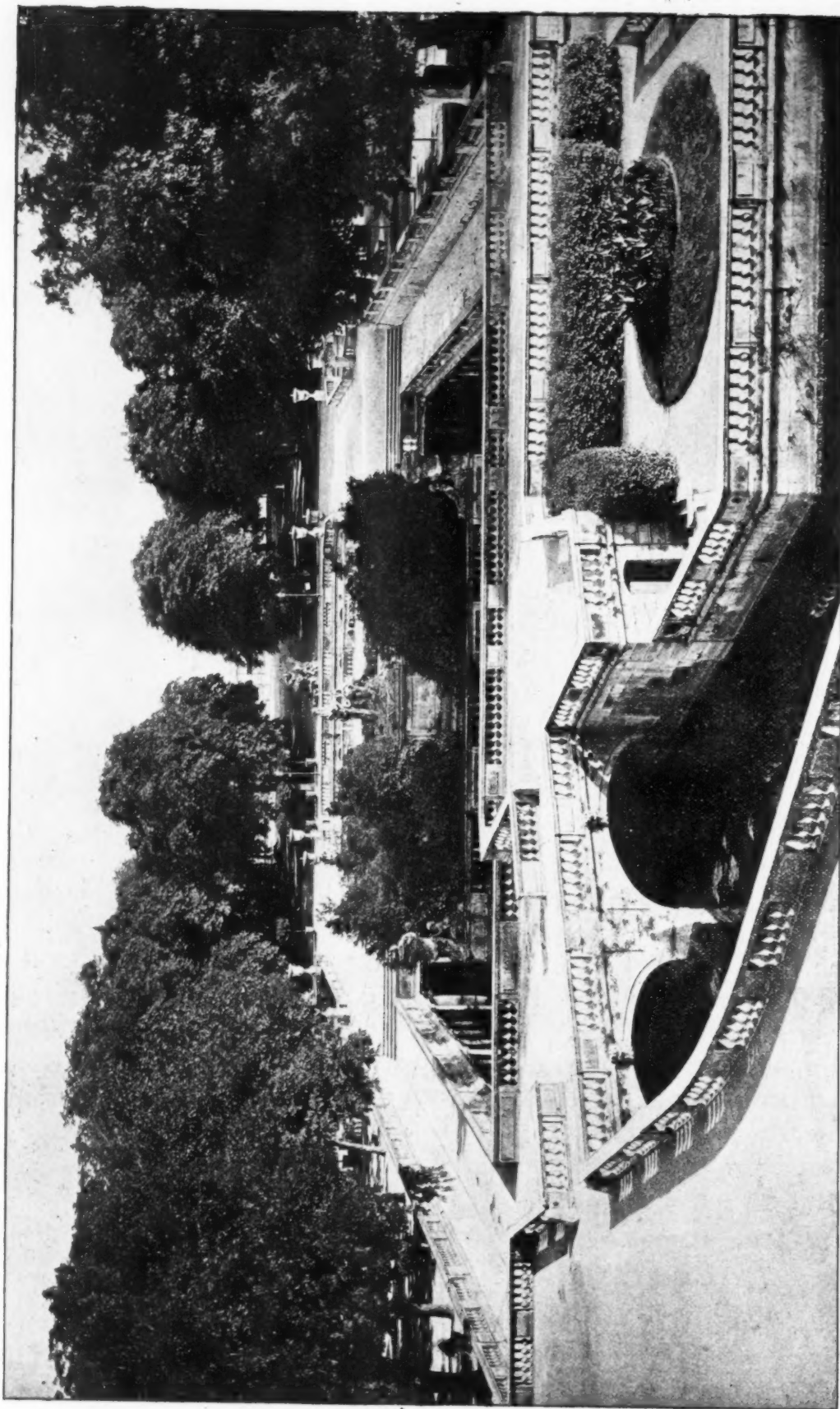
HE following from the new work by Prof. Geo. P. Merrill, Curator of the Department of Geology, Smithsonian Institution, "Stones for Building and Decoration," refers to Potsdam Sandstone:

"The Potsdam stone shows, however, a markedly different structure. Here the granules are wholly of quartz and very much rounded in form. The original rounded outline of the quartz granule is shown by the dotted lines and deeply shaded portions (referring to microscopic section), while every portion of the interstices is occupied by a clear, colorless, silicious cement, binding the rock into a hard, compact and impervious quartzite, almost absolutely unaffected by chemical and atmospheric agencies. This rock shows to beautiful advantage the secondary enlargement of quartz granules by deposition of interstitial silica, having the same crystallographic orientation as the granules themselves." Page 37.

"I consider this, from the standpoint of durability, almost an ideal stone. Composed wholly of quartz grains, it has by deposition of interstitial silica, become converted into a compact quartzite, impregnated with just enough iron oxide to give it a reddish, or brownish-red color. It is, therefore, practically non-absorptive, and its surface affords no foothold for growing organism. Strong as the strongest granite, and not liable to chemical disintegration from atmospheric agencies, the stone deserves even a wider recognition than it has yet received." Page 273.

The Potsdam Red Sandstone Company, Potsdam, N. Y., is desirous that architects should inform themselves fully regarding this stone, and will send samples prepaid to any architect applying for them. Full expert opinions sent on request.

ACCESSORIES OF LANDSCAPE ARCHITECTURE. NO. XXXVI.



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BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Worcester, Mass. - Chandler St., two-sty frame apartment block; own., J. C. F. Merrick, Princeton; arch., E. T. Chapin; day-work.

CHURCHES.

Chicago, Ill. - E. Slattery & Son, two-sty brick chapel, 4124 Indiana Ave.; \$8,000.

Medford, Mass. - Boston St. and Harvard Ave., one-and-one-half-sty frame church, 54' x 60', pitch roof; \$10,000; own., West Medford Baptist Society; arch., G. Leslie Nichols, Boston; not let.

Newton, Mass. - Beacon St., one-sty frame and stone chapel, furnace; \$5,500; own., Episcopal Society, Waban; bld., H. H. Hunt; arch., W. F. Goodwin, Boston.

HOUSES.

Baltimore, Md. - Three two-sty brick dwells, Vine St., bet. Fremont and Poppleton Sts.; own., J. Chas. Neser, 898 West Baltimore St.

Two two-sty brick dwells, n e cor. Hamburg and Sterritt Sts.; own., Andrew Stump, 624 Columbia Ave.

Five two-sty brick dwells, es Hopkins Ave., bet. Lanvale and Townsend Sts.; own., E. W. Gorman, 2300 Fairmount Ave.

Eighteen two-sty brick dwells, s s Cleveland Pl., bet. Patterson Park and Collington Ave.; own., Billing & Carter, 609 North Collington Ave.

Twelve two-sty brick dwells, s s Morse St., bet. Pulaski and Smallwood Sts.; own., Wm. A. Horton, Jr., 742 North 1st Ave.

Twenty-seven two-sty brick dwells, s s Potter Ave., w Chestnut Ave.; own., Wm. H. Baker, 1627 North Calhoun St.

Brookline, Mass. - Kilsyth Road, two-and-one-half-sty frame dwell., 42' x 42', hip roof, furnace; \$8,000; own., Moses H. Day, 358 Western Ave.; bld., Silas E. Allen; arch., Eugene L. Clark, Boston.

Cory Road, two-and-one-half-sty frame dwell., 48' x 48', pitch roof, steam; own., Frank Knox, 226 Congress St., Boston; bld., David Burns; arch., Lewis H. Bacon, Boston.

Brooklyn, N. Y. - Sixtieth St., s s, 200' e 4th Ave., 5 two-sty and basement brick dwells, 20' x 43', tin roofs; \$25,000; own. and arch., B. C. Raymond, 133 Fifty-seventh St.

East Thirty-fourth St., w s, 190' n Avenue G, 4 two-sty and attic frame dwells, 22' x 33', shingle roofs; \$12,000; own. and arch., Wm. S. Cohen, 1260 Flatbush Ave.; bld., Williams & Cohen, 1260 Flatbush Ave.

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Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.

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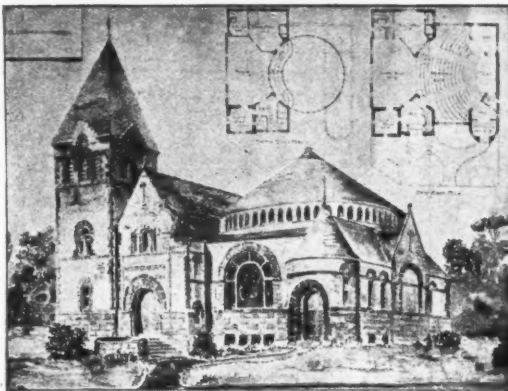
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BUILDING INTELLIGENCE.

(Houses Continued.)

Jefferson Ave., n s, 155' w Patchen Ave., 7 two-sty and basement brick dwells, 20' 8" x 50', tin roofs; \$31,500; own. and bld., O. Ginger and C. Kreppel, 739 Macon St.; arch., W. B. Mills, 17 Troutman St.

Cambridge, Mass. - Acorn Hill St., two-and-one-half-sty frame dwell., 30' x 30', gambrel roof, furnace; \$6,100; own., E. S. Gilmore; bld., Thomas Gordon; arch., Prescott & Sidebottom, Boston.

Raymond St., three-sty frame dwell., 29' x 31', flat roof, furnace; \$4,500; own., Enoch Bean, 1238 Massachusetts Ave.; bld., Z. Hayden.

Massachusetts Ave., No. 1500, two-sty dwell., 21' x 34', hip roof, steam; \$4,000; own., E. D. Mellen, 184 Broadway; bld., W. Fillmore & Co.

Chicago, Ill. - Kirk Hawes, 2 three-sty brick dwells, 28-30 Madison Park; \$10,000.

W. H. Stewart, two-sty brick dwell., 6019 Lexington Ave.; \$5,000.

Far Rockaway, L. I., N. Y. - Breezy Point, 4 two-and-one-half-sty frame dwells, 40' x 40' each; total cost, \$25,000; own., J. Donovan; arch., Montrose W. Morris, 45 Exchange Pl., New York City; not let.

Lynn, Mass. - Baker St., two-and-one-half-sty frame dwell., 38' x 52', hip roof, furnace; \$5,000; own., Geo. Garside, Summer St.; bld., A. Locmer; arch., A. W. Call.

Cook St., two-sty frame dwell., 27' x 34', pitch roof, furnace; \$5,000; own., A. O. Perrott, 32 Central Sq.; bld., Titus & Poor.

Nottingham St., two-and-one-half-sty frame dwell., 26' x 40', pitch roof, furnace; \$5,000; own., Mary S. Hobbs; bld., E. L. Hobbs, 261 Western Ave.

Malden, Mass. - Judson St., two-and-one-half-sty frame dwell., 24' x 24', pitch roof, furnace; \$5,000; own. and bld., Fred E. Freeman, 50 Judson St.

Newton, Mass. - Oakleigh Road, two-sty frame dwell., 45' x 52', pitch roof, furnace; \$7,000; own., E. N. Brewer, 28 William St.; bld., J. T. Beal.

New York, N. Y. - Popham Ave., cor. Palisade Pl., two-and-one-half-sty frame dwell., 34' x 55'; \$12,000; own., Mathilda E. Stremmel, 1337 Lexington Ave.; arch., Charles Stegmayer.

One Hundred and Forty-first St., nr. Alexander Ave., three-sty brick dwell. and store, 25' x 45'; \$7,000; own., Fred. Gethard, 2619 Third Ave.; arch., Louis Falk.

Shelter Island, N. Y. - Two-and-one-half-sty frame

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WEBSTER, MASS.

BUILDING INTELLIGENCE.

(Houses Continued.)

dwell., 40' x 51'; \$12,000; own., Otto E. Lohke, 219 Produce Exchange, New York City; arch., Geo. H. Skidmore, Riverside, L. I.; not let.

St. Louis, Mo. - Two-and-one-half-sty dwell., s s McPherson St., bet. Taylor and Walton Sts.; \$5,000; own., O. F. Humphrey.

Two two-sty dwells., n s Highland St., bet. Hodi-mont and Suburban Sts.; \$6,000; own., A. G. Anderson.

Two and-one-half-sty dwell., s s Cabanne St., bet. Goodfellow and Hamilton Sts.; \$12,000; own., Wm. Hines.

Two two-sty dwells., s s Castleman St., bet. Thurmman and Klemm Sts.; \$8,000; own., J. L. Claus.

Three-sty dwell., e s Spring St., cor. Cottage St.; \$6,000; own., Henry Ahrens.

Three-sty dwell., e s Angelica St., bet. 23d and Kosuth Sts.; \$4,800; own., Wm. Kleasing.

Two two-and-one-half-sty dwells., s s Cottage St., w Marcus St.; \$6,000; own., George A. Handley.

Two-sty dwell., e s Waverly Pl., bet. Geyer and Lafayette Sts.; \$6,000; own., Mrs. L. W. Learned.

MERCANTILE BUILDINGS.

Melrose, Mass. - Main St., three-sty brick business block; \$30,000; own., Burrill & Sweet, 19 Milk St., Boston; arch., Hartwell, Richardson & Driver, Boston.

Newton, Mass. - Union St., two-sty brick business block, 40' x 73', steam; \$15,000; own., Henry M. Taylor; bld., Miller Bros; arch., Kendall & Stevens, Boston.

Wakefield, Mass. - Water St., two-sty frame office building, 30' x 70', pitch roof, steam; \$5,000; own., Wakefield Rattan Co.; bld., Roger Howard; arch., G. E. Abbott, Boston.

Worcester, Mass. - Front St., five-sty brick business block; own., R. C. Taylor; con., T. Barrett; arch., Fuller, Delano & Frost.

School St., four-sty brick block; own., George T. Aetchison; con. and arch., D. Melville Van Horn.

RAILROAD BUILDINGS.

Southampton, L. I., N. Y. - One-and-one-half-sty brick depot; \$10,000; own., Long Island R. R.

STABLES.

Buffalo, N. Y. - Elm St., rear, Nos. 390-392, three-sty brick private barn, 32 1/2' x 64'; \$8,000; own., C. Person's Sons; bld., Schmitt Bros.; arch., Geo. J. Metzger.

Lynn, Mass. - Winsor Ave., one-and-one-half-sty frame stable, 26' x 34', pitch roof; \$1,500; own., Thomas Hurley, 8 Winsor Ave.

Adams St., one-and-one-half-sty frame stable, 15' x 16', pitch roof; \$500; own. and bld., Lawrence Higgins.

Malden, Mass. - Kimball St., one-and-one-half-sty frame stable, 18' x 18'; own., Martin M. Clark; bld., J. L. Clark, 8 Washington St., Everett.

(Stables Continued.)

Newton, Mass.—Walnut St., one-sty frame stable, 22' x 40'; \$1,200; own., Daniel Driscoll; bid., A. I. English & Son, Newton Centre.

Jellison St., one-and-one-half-sty frame stable, 26' x 40'; \$1,800; own., G. A. Scherer, on premises; bid., James McPhee.

Kirkfall Road, two-sty frame stable, 50' x 125', pitch roof, hot water; \$3,000; own., W. H. Lucal; bid., H. F. Ross Co., Crafts St.; arch., W. F. Goodwin, Boston.

Kirkfall Road, one-and-one-half-sty frame stable, 30' x 52', pitch roof, hot water; \$3,500; own., C. S. Dennison; bid., H. F. Ross Co.; arch., J. Williams Beal, Boston.

New York, N. Y.—One Hundred and Forty-eighth St., 500' w 7th Ave., seven-sty brick stable, 8' x 100'; \$20,000; own., Isidor and Nathan Strauss; arch., Schickel & Dittmars.

McDougal St., No. 65, three-sty brick stable, 20' x 67'; \$10,000; own., Nicholas Low estate, 208 Blocher St.; arch., Frank E. Albinger.

Philadelphia, Pa.—Hanover St., rear, No. 1133, two-sty brick stable, 13' x 50'; con., J. S. Connell Sons, 1919 Woodstock St.

Salem, Mass.—Daniel St., one-and-one-half-sty frame stable, 20' x 20', pitch roof; \$300; own., Wm. White; bid., Robert F. White, 27 Union St.

STORES.

Brooklyn, N. Y.—Columbia St., No. 200, four-sty brick store and dwell., 21' x 72', tin roof; \$9,000; own., F. Porte, 194 Columbia St.; arch., C. F. Eisenach, 59 Court St.

Bainbridge St., s w cor. Patchen Ave., three-sty brick store and dwell., 23' x 65', tin roof; \$9,000; own. and bid., F. Schlegel, 205 Schaeffer St.; arch., W. B. Millie, 17 Troutman St.

Lee Ave., s e cor. Rutledge St., and s w cor. Heyward St., 2 four-sty brick stores and dwells., 27' x 90', tin roofs; \$24,000; own., S. Charig, 621 Willoughby Ave.; arch., J. Strauss, 1058 Broadway.

Livingston St., n e cor. Gallatin Pl., seven-sty and basement brick store, 98' 9" x 165', gravel roof; \$150,000; own., Abraham & Strauss, Fulton St.; arch., George L. Morse, Eagle Building; bid., P. Cleary, 385 Decatur St.

Buffalo, N. Y.—Grant St., cor. Military Road, two and three-sty brick store and tenement-building, 61' x 96'; \$46,000; own., J. M. Anseth; arch., Eckel & Ackerman; bid., Nicholas Kempf.

Four-sty brick store, 17' x 61'; \$5,000; own., R. Griess, 482 Washington St.; arch., E. C. Paul.

Chicago, Ill.—C. Larson, three-sty brick store and flats, 1820 North Clark St.; \$6,000.

F. H. Dolan, 2 two-sty brick stores and flats, 4803-05 North Clark St.; \$5,000.

New York, N. Y.—Third Ave., cor. 60th St., six-sty brick and stone store-building, 60' x 100'; own., Bloomingdale Bros., 153 East 59th St.; arch., Buchanan & Deister; \$200,000.

Elm St., Nos. 30-32, twelve-sty store and loft-building, 73' x 150'; \$130,000; own., New York Life Insurance Co., 346 Broadway; arch., Babb, Cook & Willard, 874 Broadway.

Woodside, S. I., N. Y.—Jackson Ave. and Fourth St., three-sty frame store and dwell., 27' x 70'; \$7,000; own., Mrs. Millinger, 3d Ave. and 137th St., New York.

THEATRES AND HALLS.

Benton Harbor, Mich.—Two-sty and basement brick opera-house, 9' x 135'; \$35,000; own., Hall & Nichols; arch., Wood & Lovell, Chicago, Ill.

St. Louis, Mo.—Three-sty hall, s w cor. Jefferson and Lafayette Sts.; \$6,500; own., Anchor Hall Imp. Co.

TENEMENT-HOUSES.

Cambridge, Mass.—Washington St., three-sty brick and frame tenement of 6 flats, 41' x 50', flat roof; \$10,000; own., Harry H. Savage; arch., C. H. McClure; not let.

Sixth St., three-sty frame and brick tenement, 41' x 41', flat roof, stoves; \$6,500; own., Sarah Ellis; bid., John Quinn.

Milwaukee, Wis.—Jackson St., bet. Pleasant and North Water Sts., three-sty brick tenement, 32' x 70'; \$6,000; own., Ernest Baumbach; con., Deck & Siebert; arch., Schnetzky & Liebert.

North and West Sts., three-sty frame flats, 53' x 54'; \$5,000; own. and bid., Mr. Melhorn; arch., K. S. Evans.

Salem, Mass.—High St. Cl., three-sty frame and brick tenement for 9 families, 64' x 64', flat roof, stoves; \$5,500; own., Joseph Foster, Trustee for Italian Syndicate; bid., Morrissey & Pellerin, Beverly; arch., W. D. Dennis.

WAREHOUSES.

Brooklyn, N. Y.—South Eleventh St., n s, 234' w Kent Ave., two-sty brick storage-house, 94' x 101', cement roof; \$40,000; own., Mollenhauer Sugar Refining Co., on premises; arch., C. H. C. Schmandt, 72 South 3d St.; bid., W. and T. Lamb, 194 Keap St.

Philadelphia, Pa.—Lynd St., n s, bet. 4th and 5th Sts., four-sty brick warehouse, 30' x 40', slag roof; cost about \$7,000; own., Henry K. Wampole & Co., 441 Green St.; con., Stewart Bros., 2527 North 5th St.

Pittsburgh, Pa.—Four-sty brick warehouse; cost about \$11,000; own., Jno. B. Jackson; con., A. and S. Wilson.

A six-sty brick warehouse will be built for Chas. Lockhart; con., W. F. Trimble & Sons.

MISCELLANEOUS.

Babylon, L. I., N. Y.—Royal Island, two-and-one-half-sty frame sanitarium, 40' x 100' and 20' x 30'; \$20,000; own. and bid., Dr. Edward H. Muncie, 119 Macou St., Brooklyn.

Boston, Mass.—Tremont St., Nos. 1042-4, Ward 18, three-sty brick building for mechanical purposes, 20' x 65', flat roof, stoves; \$11,000; own., Robert Trent Paine, 6 Joy St.; bid., Geo. Wm. Pope's Sons.

Brooklyn, N. Y.—Osborne St., e s, 20' n Dumont Ave., four-sty and basement brick tailor shop, 35' x 48', tin roof; \$6,000; own., S. Gotherer, Osborne St., nr. Belmont Ave.; arch., L. Dananacher, 37½ Jamaica Ave.

Buffalo, N. Y.—Forest Ave., w Niagara St., brick exhaustor boiler and engine-room, 43½' x 64'; \$5,000; own., Buffalo Gaslight Co.; arch., M. Davey; bid., Charles Berrick's Sons and E. M. Hager & Sons.

Chicago, Ill.—Brand, Buller & Gund, five-sty brick malt-house, 616-34 Talman Ave.; \$25,000.

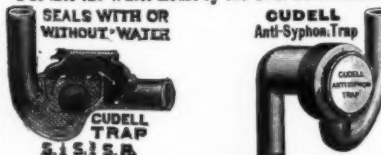
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BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

Milwaukee, Wis.—Twenty-sixth St., bet. Cedar and State Sts., two-sty brick building for telephone exchange, 40' x 40'; \$15,000; own., Wisconsin Telephone Co.; arch., W. D. Kimball.

Newtown, L. I., N. Y.—Two-sty and basement frame casino, 90' x 125'; \$10,000; own., M. Seitz, 236 Mauer St., Brooklyn; arch., Henry Vollweiler, Brooklyn.

Philadelphia, Pa.—Allegheny Ave. and Sixteenth St., one-sty iron and brick boiler-house, 35' x 40'; own., H. Barnett; arch., Hales & Ballinger, 120 Chestnut St.

Magazine Lane and River Road, one-sty brick cook-house, 20' x 32'; own., Atlantic Refining Co., Chestnut St., s e cor. 4th St.

St. John St., No. 6068, four-sty brick and stone brewery and mill, 45' x 98'; con., Philip Halbach, s e cor. Thompson and 26th Sts.

COMPETITIONS.

FOR Programmes of Competitions of Society of Beaux-Arts Architects for 1896-97, see *American Architect* for October 17 and 24, 1896. L.F.

PROPOSALS.

PLUMBING SYSTEM. [At Boston, Mass.]

Proposals are wanted until November 23, for plumbing system in grammar school-house, corner of Adams and King Sts., Dorchester District. Plans, etc., at office of T. M. Clark, Architect, 22 Congress St., as above. Address SECRETARY OF SCHOOL COMMITTEE, Mason St., as above. 1091

STAIRWAYS FOR SUBWAY. [At Boston, Mass.]

Proposals are wanted until November 23, for eight stairways and coverings on Boston Common for the Boston Subway. Plans, etc., at office of Wheelwright & Haven, Architects, 1129 Tremont Building, as above. Address BOSTON TRANSIT COMMISSION, 20 Beacon St., as above. 1091

Treasury Department, Office Supervising Architect, Washington, D. C., November 9, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 22d day of December, 1896, and opened immediately thereafter, for all the labor and materials required for the low-pressure, return-circulation, steam-heating and ventilating apparatus and power-boiler for the United States Marine Hospital building at Port Townsend, Wash., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Custodian at Port Townsend, Wash. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1091

HEATING AND VENTILATING. [At Newton, Mass.]

Proposals are wanted until November 30, for heating and ventilating Newton High school-house. Plans, etc., at office of S. H. Woodbridge, 85 Water St., Boston. Address GEORGE H. ELDER, Supt. of Public Buildings, Newton. 1091

HOSPITAL BUILDING. [At Brooklyn, N. Y.]

Proposals are wanted until December 1, for building at United States Naval Hospital. Plans, etc., at said hospital or as below. Address J. R. TRYON, Chief of Bureau of Medicine and Surgery, U. S. Navy Dept., Washington, D. C. 1091

GUN EMPLACEMENTS. [Near Cape Fear River, N. C.]

United States Engineer's Office, Wilmington, N. C., October 20, 1896. Proposals for building gun emplacements near mouth of Cape Fear River, N. C., will be received until 2 P. M., November 21, 1896, and



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PROPOSALS.

then opened. For information apply to D. P. HEAP, Lt.-Col. Engineers. 1091

JAIL. [At Atlanta, Ga.]

NOTICE TO JAIL BUILDERS AND CONTRACTORS.

OFFICE OF COMMISSIONERS OF ROADS AND REVENUES OF FULTON COUNTY, ATLANTA, GA. ATLANTA, GA., September 19, 1896.

Sealed proposals will be received at this office until 12 o'clock M. on the 24th day of November, 1896, and opened immediately thereafter, for all the labor and materials required for the building and erection of the new jail for the county of Fulton, at Atlanta, Ga., in accordance with plans, drawings and specifications made and prepared by Grant Wilkins, Engineer, and approved by the Commissioners of Roads and Revenues, copies of which may be seen at this office or at the office of the engineer, No. 9½ Peachtree Street.

Payment will be made in cash upon the monthly estimates as made by the superintendent of construction, for work actually performed and material worked into the building, at their schedule value, less 25 per cent of same, which will be held as a reservation in accordance with the laws of Georgia, and which will be paid as the law directs, after the work is complete and accepted by the Commissioners. Each bid must be accompanied by a bank cashier's check for 2½ per cent of the amount of the proposal. Said check to be forfeited as liquidated damages in case the bidder fails to enter into contract, should the work be awarded him and should he not make the bond as required by law, which will be double the amount of the contract price.

The right is reserved to reject any or all bids and to waive any defects or informality that may occur in any bid, should it be deemed of interest to the county to do so. Proposals must be upon blanks furnished by the engineer, and enclosed in envelopes, sealed and marked, "Proposals for the Fulton County Jail at Atlanta, Ga.," and addressed to A. L. KONTZ, Clerk, Commissioners of Roads and Revenues of Fulton County, Georgia, Atlanta, Ga.

G. A. COLLIER, Chairman, FORREST ADAIR, JOSEPH THOMPSON, WALTER R. BROWN, JACK J. SPALDING, Commissioners of Roads and Revenues, Fulton County, Georgia.

FORREST ADAIR, Chairman, WALTER R. BROWN, JACK J. SPALDING, Commissioners of Roads and Revenues, Fulton County, Ga. 1091

EDITORIAL SUMMARY.
TABLES, - III.
LETTER FROM PARIS.
DEEP AND DIFFICULTY BRIDGE AND BUILT-UP FOUNDATIONS.
DISCUSSION OF THE PAPERS ON INFLUENCE OF STEEL CON-
STRUCTION, ETC.
BRICK SPIRAL STAIRS.
SOCIETIES.
COMMUNICATIONS.
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shrewdly, it is very cold." Shakespeare said that many years ago, and it will be just the same this winter. To keep the wintry air out of the house the **Eclipse Door Check and Spring** should be used. The Spring closes the door promptly; the Check prevents the slamming and banging. Send for our Eclipse Booklet, which explains.

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Macon, Ga., Dec. 17, 1893.

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Louisville, Ky., Dec. 4, 1802.

It has assisted us, at a moderate cost, in collecting a stock of publications which have assisted us greatly in the pursuit of our profession, and on which we rely a great deal for suggestions.

MCDONALD BROS., Architects

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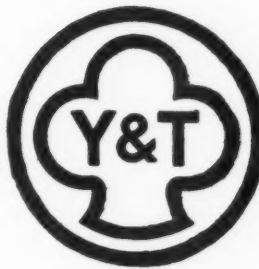
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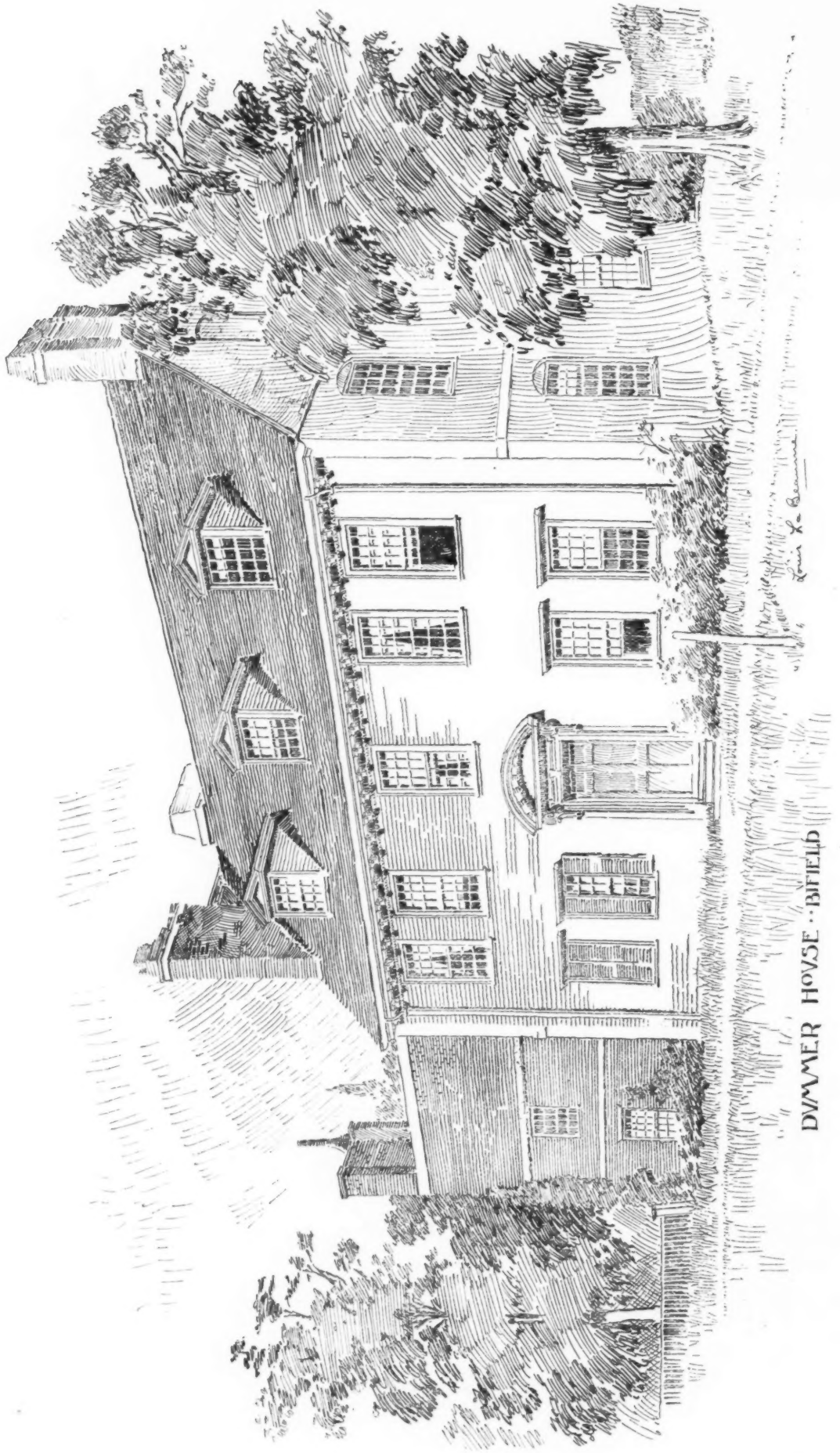
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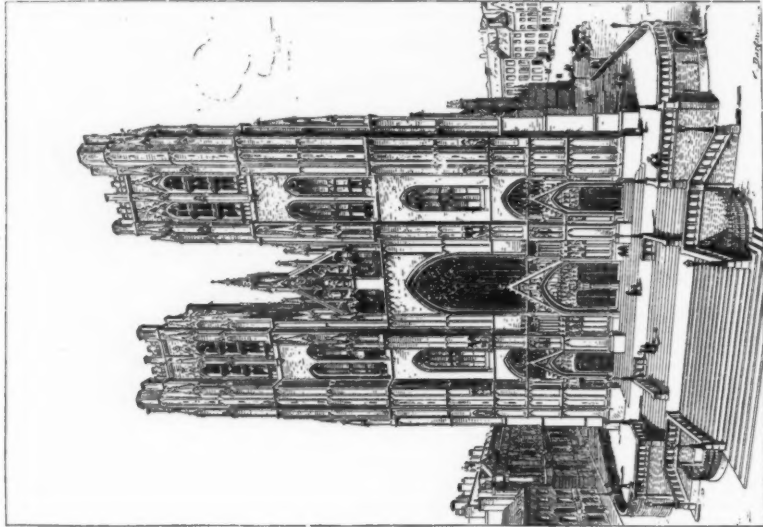
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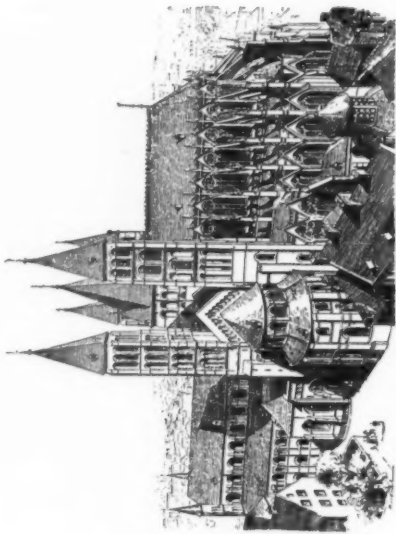
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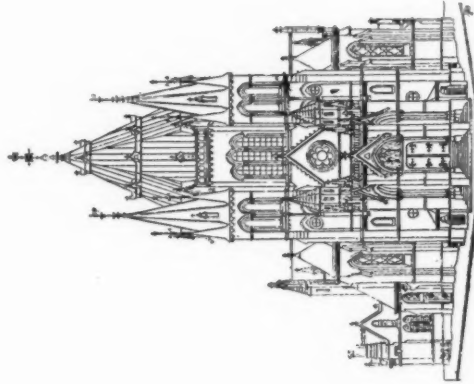
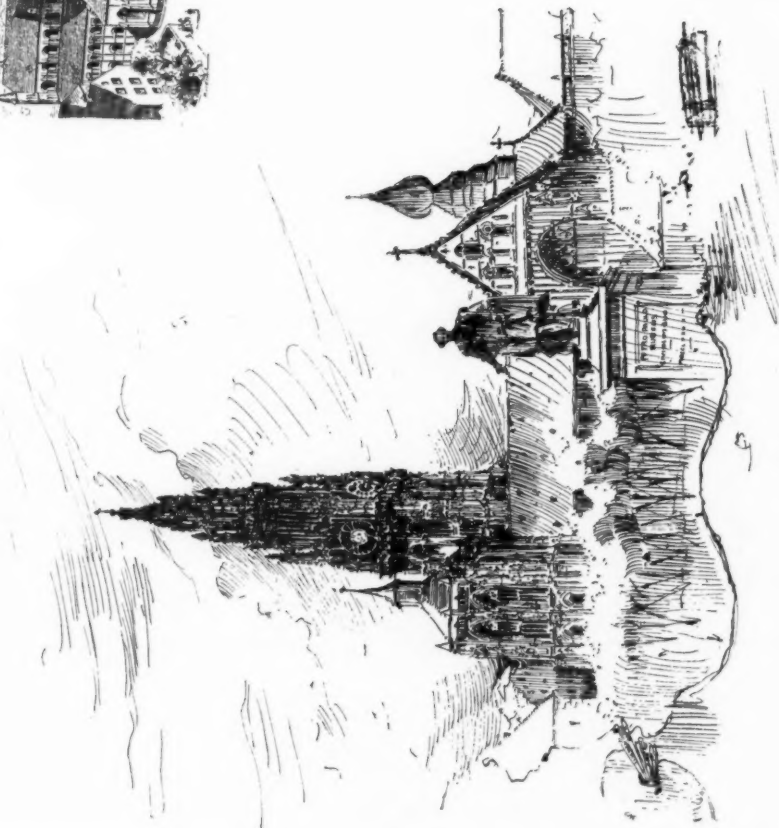
Agents at all Central Points.



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Cathedral of Tournai.

Church of Bon Secours.
Feruweltz, Belgium.

Antwerp Cathedral.

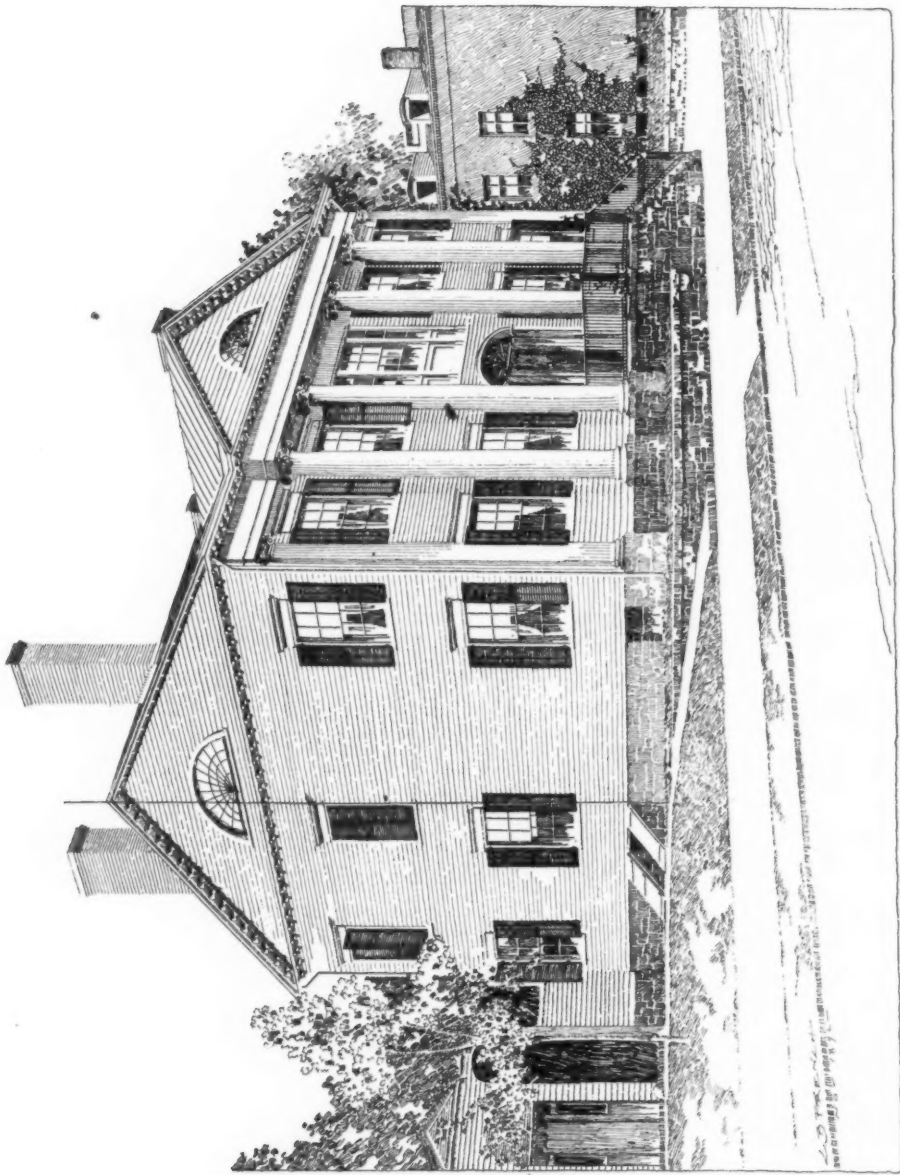
POTSDAM RED SANDSTONE.

HE following from the new work by Prof. Geo. P. Merrill, Curator of the Department of Geology, Smithsonian Institution, "Stones for Building and Decoration," refers to Potsdam Sandstone:

"The Potsdam stone shows, however, a markedly different structure. Here the granules are wholly of quartz and very much rounded in form. The original rounded outline of the quartz granule is shown by the dotted lines and deeply shaded portions (referring to microscopic section), while every portion of the interstices is occupied by a clear, colorless, silicious cement, binding the rock into a hard, compact and impervious quartzite, almost absolutely unaffected by chemical and atmospheric agencies. This rock shows to beautiful advantage the secondary enlargement of quartz granules by deposition of interstitial silica, having the same crystallographic orientation as the granules themselves." Page 37.

"I consider this, from the standpoint of durability, almost an ideal stone. Composed wholly of quartz grains, it has by deposition of interstitial silica, become converted into a compact quartzite, impregnated with just enough iron oxide to give it a reddish, or brownish-red color. It is, therefore, practically non-absorptive, and its surface affords no foothold for growing organism. Strong as the strongest granite, and not liable to chemical disintegration from atmospheric agencies, the stone deserves even a wider recognition than it has yet received." Page 273.

The Potsdam Red Sandstone Company, Potsdam, N. Y., is desirous that architects should inform themselves fully regarding this stone, and will send samples prepaid to any architect applying for them. Full expert opinions sent on request.



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Welden St., s. s. 175' e Crescent St., 3 two-sty frame dwells., 20' x 47', tin roofs; \$5,400; own. and bld., E. W. Lauer, Magenta St., nr. Market St.; arch., Chas. Infanger, 2590 Atlantic Ave.

South Fourth St., n. s. 125' e Keap St., four-sty brick dwell., 25' x 65', tin roof; \$7,500; own., M. Mulvihill, 1069 Greene Ave.; arch., Chas. Infanger, 2590 Atlantic Ave.

Rutledge and Reynard Sts., 28' s Lee Ave., 5 four-sty brick dwells., 27' x 76', tin roofs; \$43,000; own., S. Charig, 621 Willoughby Ave.; arch., J. Strauses, 1058 Broadway.

Vanderbilt Ave., n. e. cor. St. Mark's Ave., three-sty brick dwell., 21' x 60', tin roof; \$9,300; own., W. A. A. Brown, 1042 Decatur St.; arch., H. Heineman, 176 Amity St.; bld., J. McArthur, Putnam and Bedford Aves.

Bunbridge St., s. e. cor. Howard Ave., three-sty brick dwell., 24' 4" x 55', gravel roof; \$7,000; own. and arch., H. B. Hill, 193 Ralph Ave.; bld., M. T. Reynolds.

Buffalo, N. Y. - Oakland Pl., No. 70, two-sty brick and frame dwell., 25' x 48' x 51'; \$15,000; own., Robert W. Pomeroy; bld., George Kempf.

Cambridge, Mass. - Porter's Road, 4 two-and-one-half-sty 2-apartment frame dwells., 26' x 28', pitch roofs, furnaces; \$4,200 each; own., arch. and bld., Robert Bennett, on premises.

Acacia St., two-sty frame dwell., 56' x 59', pitch roof, steam; \$3,000; own., Warren K. Blodgett, 559 Massachusetts Ave.; arch., Dwight & Chandler, Boston; bld., Bellamy & Harris, 874 Massachusetts Ave.

Raymond St., three-sty frame dwell., 30' x 30', gambrel roof, furnace; \$4,500; own., arch. and bld., Wm. H. Wentworth, 1388 Massachusetts Ave.

Francis Ave., Ward 1, two-and-one-half-sty frame dwell., 38' x 65', gambrel roof; cellar in; \$10,250; own., Prof. Wm. M. Davis; bld., Briggs Bros.; arch., C. H. McClare.

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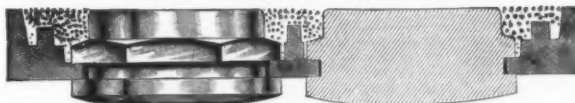
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Walden St., 2 two-sty, two-apartment frame dwells., 26' x 26', pitch roofs, hot water and furnaces; \$4,500 each; own. and bld., L. S. & I. Bouly.

Chestnut Hill, Pa. - Joyce St., w 25th St., 2 two-sty brick dwells., 16' x 43'; con., George S. Roth, Union Ave.

Chicago, Ill. - Frank Schell, two-sty brick dwell., 5531 Wabash Ave.; \$5,000.

C. H. Reeves, two-sty frame dwell., 1065 Sherwin Ave.; \$5,000.

Kirk Hawes, 2 three-sty brick dwells., 44-46 Madison Park; \$10,000.

J. Blain, 4 two-sty brick dwells., 4328-34 Forrestville Ave.; \$24,000.

W. S. Whiton, 3 two-sty brick dwells., 5719-23 Washington Ave.; \$20,000.

Cincinnati, O. - June St., bet. May and Winslow Sts., two-and-one-half-sty brick dwell.; \$8,000; own., E. C. Boyce, 650 Crown St., Walnut Hills; bld., Schuman, Bloss & Co.

Detroit, Mich. - Spitzley Bros., two-sty brick double dwell., 432-434 St. Antoine St.; \$7,000.

Dobb's Ferry, N. Y. - Two-sty frame dwell.; \$6,000; own., John Carroll; arch., George Palliser, New York City.

Elmhurst, L. I., N. Y. - Twenty two-sty frame dwells.; \$50,000; own. and bld., C. Meyer, 2 William St., New York City; arch., Johnson & Helme, Brooklyn, N. Y.

Everett, Mass. - Everett St., nr. Cottage St., two-sty frame dwell., 35' x 35', pitch roof, furnace; own., Miss Georgia Whidden, on premises; bld., Wm. B. Armstrong, Whittemore Pl.; arch., Geo. A. Cutter.

Hancock St., two-sty, two-apartment framed dwell., 27' x 27', pitch roof, furnace; \$4,000; own., R. T. Green; bld., Henderson Bros.; arch., G. H. Wood.

Ireing St., two-sty, two-apartment frame dwell., 28' x 30', pitch roof, hot water; \$3,500; own., Mrs. Gary; bld., Geo. Sweetland; arch., Charles Cutter, Boston.

Fordham Heights, N. Y. - Two two-and-one-half-sty frame dwells.; \$7,000 each; own., Taylor & Peck; arch., Benedict & Neu, 487 Fifth Ave.

Fox Chase, Pa. - Loney St., s w cor. B St., three-sty brick dwell., 22' x 40'; con., Joseph Ashby.

Freeport, L. I., N. Y. - Frame dwell. and stable; \$10,000; own., arch. and bld., Stephen M. Randall, Pulitzer Building, New York City.

Germantown, Pa. - Germantown Ave., No. 4921, three-sty stone and brick dwell., 23' x 70'; own., George C. Fossell, 110 East Chelton Ave.

Germantown Ave., No. 4923, two-sty stone and brick dwell., 27' x 40'; own., George C. Fossell, 110 East Chelton Ave.

Willow Grove Ave., s e, 3 three-sty stone and brick dwells., 16' x 45'; own., George C. Fossell, 110 East Chelton Ave.

Groton, Conn. - Two two-and-one-half-sty frame dwell., 30' x 50'; \$8,000; own., Sanford Meech; arch., Child & De Goll, 62 New St., New York City.

Lawrence, Mass. - Haverhill St., two-sty frame dwell., 45' x 63', hip roof, furnace; \$10,000; own., Joseph Walworth; arch., John A. Ashton; not let.

Haverhill St., 2 two-sty frame dwells., each 27' x 50', pitch roof, furnace; \$4,500 each; own., C. W. and John P. Walworth; arch., John A. Ashton; not let.

Little Silver, N. J. - Frame dwell. and stable; cost about \$25,000; own., John J. Gibbons, 284 Fifth Ave., New York City; arch., A. L. C. Marsh, 97 Nassau St., New York City.

Lock Arbor, N. J. - Dwell.; cost about \$8,000; own., James R. Waterlow, 81 West 50th St., New York City; arch., J. W. Roberts, Asbury Park, N. J.

Medford, Mass. - Cross St., two-sty frame dwell., 25' x 34', gambrel roof, furnace; \$4,000; own., E. L. Joyce.

King Ave., two-sty frame dwell., 40' x 40', pitch roof, furnace; \$6,500; own., arch. and bld., H. A. Hopkins, 25 Middlesex St.

Spring Ave., two-sty, two-apartment framed dwell., 26' x 26', pitch roof, furnace; \$3,500; own., S. S. Higgins, Boston; bld., A. A. Smith.

Brooks and Woburn Sts., two-sty frame dwell., 40' x 40', gambrel roof, hot water; \$6,500; own., James B. Murphy; bld., William Brown; arch., A. H. Gould, Boston.

BUILDING INTELLIGENCE.

(Houses Continued.)

Media, Pa. - Two two-and-one-half-sty Queen Anne brick and stone dwells., 40' x 60', shingle roofs; cost about \$5,000 each; arch., Yarnall & Goforth, 14 South Broad St., Philadelphia; con., W. D. Worrall.

Minneapolis, Minn. - Clifton Ave., frame 8-room dwell.; \$5,000; own., Eugene Hay; arch., H. W. Jones.

Fine Pl., No. 1917, two-sty frame dwell., 40' x 70'; \$5,000; own., W. P. Cockey; arch., J. A. McLeod.

Montclair, N. J. - Dwell.; \$12,000; arch., C. A. Hutchings, 27 East 20th St., New York City.

Mt. Vernon, N. Y. - Rich Ave., two-and-one-half-sty frame dwell.; \$5,000; own., Charles A. Fler; arch., W. H. A. Horsfall.

Narragansett Pier, R. I. - Two-sty frame dwell., 30' x 60'; \$7,000; own., J. A. Locke, Ridgefield, Conn.; arch., Child & De Goll, New York City.

Newton, Mass. - Beacon St., two-sty frame dwell., 31' x 47', pitch roof, furnace; \$7,500; own., Mrs. M. E. Eastman; arch. and bld., C. E. White.

Moundack St., two-sty frame dwell., 38' x 40', hip roof, furnace; \$8,000; own., W. H. Barnes; bld., H. R. Ruggles; arch., M. B. McLean.

Olney, Pa. - Asylum Pike, n e s Tabor Road, three-sty brick dwell., 31' x 43'; con., Lemuel Altman.

Overbrook, Pa. - Woodbine Ave., e 63d St., 4 two-sty brick and stone dwells., 22' x 50'; con., Wannop & Young.

Philadelphia, Pa. - Twenty first St., s w cor. Locust St., four-sty stone and brick dwell., 15' x 48'; own., James Johnston, 1713 Sanson St.

Willow St., s s e 8th St., 3 two-sty brick dwells., 15' x 35'; own., J. W. Kline, 1526 Dauphin St.

Gafrey St., n s, w 2d St., 2 two-sty brick dwells., 15' x 36'; con., Streeter & Shafer, 1744 South 3d St.

Elder and Venango Sts., 6 two-sty brick dwells., 14' x 28'; own., Jno. W. Armstrong, Broad Ave., Pa.

Elder St., s e cor. Venango St., two-sty brick dwell., 16' x 28'; own., Jno. W. Armstrong, Broad Ave., Pa.

Pittsburgh, Pa. - Dwell.; \$50,000; own., J. J. Vandergrieff; con., A. and S. Wilson, 541 Third Ave.

Stratford Ave., 2 two-sty brick dwells.; cost about \$7,000; own., Jacob Friday, 25 McCance Block.

Wilkins Ave., brick dwell.; cost about \$6,000; own., Joseph L. Mitchell, P. O. Box 610.

Two-sty brick and terra-cotta dwell.; cost about \$10,000; own., Eugene Smith; con., Eichenlaub & Madden, 105 Shady Ave.

Ivy St., 2 brick dwells.; own., O. J. Parker; arch., Geo. S. Orth & Bro., Stevenson Building.

Plainfield, N. J. - Dwell.; cost about \$17,000; own., Geo. A. Strong, 50 Wall St., New York City; general con., Jno. Abbott; arch., Rossiter & Wright, 94 Liberty St., New York City.

St. Louis, Mo. - Two two-sty dwells., n s Ann St., bet. California and Ohio Sts.; \$5,000; own., A. G. Blanke.

Two-sty dwell., w s Blackstone St., bet. Minerva and Page Sts.; \$5,000; own., Wm. Richardson.

Eight two-sty dwells., s s Fountain St., bet. Bayard and Euclid Sts.; \$20,000; own., G. W. Davis R. E. Co.

Three two-and-one-half-sty dwells., s s California St., bet. Victor and Sidney Sts.; \$6,000; own., John B. Westermeyer.

Two two-and-one-half-sty dwells., s s Victor St., nr. Grand St.; \$6,200; own., J. J. Zimmerer.

Two-sty dwell., n s Victor St., bet. Grand and Arkansas Sts.; \$5,500; own., R. Schulenberg.

St. Paul, Minn. - Holly St., nr. Summit Ave., frame dwell., 39' x 51'; own., J. C. Norton; con., G. W. Thayer; arch., Louis Lockwood.

Ashland Ave., bet. Kent and Mackubin Sts., two-sty brick dwell., 40' x 47', slate roof; \$7,500; arch., A. F. Gauger.

Marshall and Prior Aves., Murian Park, two-sty frame dwell., 33' x 53'; \$6,000; own., Dr. Andrew Henderson; arch., Louis Lockwood; contract for foundation let to Fransen & Petersen; balance to be let soon.

Tenafly, N. J. - Three-sty and basement frame and stone dwell., 50' x 58', shingle roof; \$10,000; con., Gutlin & Tallman, Englewood; arch., E. V. Seeler, Chestnut and 4th Sts., Philadelphia.

Worcester, Mass. - Paine St., two-sty frame dwell.; own., F. W. Blackmer; arch., George H. Clemence; con., E. J. Cross.

Brittan Lane, two two-sty frame dwells.; own. and con., H. B. Pender.

Wayne St., two-sty frame dwell.; own., R. Bennett; arch., C. O. Blake; con., George H. and L. W. Rice.

(Houses Continued.)

Highland St., two-sty frame dwell.; own. and con., F. Johnson; arch., L. W. Briggs.
 Bloomingdale Road, two-sty frame dwell.; own. and con., Henry Fourrier.
 May St., 2 three-sty frame dwell.; own. and con., E. E. Miles.
 Prospect St., two-sty frame dwell.; own., E. A. Cross; day-work.
 Richmond St., two-sty frame dwell.; own., F. H. Howland; con., W. E. Putnam.
 Lyman St., one-and-one-half-sty frame dwell.; own., J. Trudeau; day-work.
 Wynnefield, Pa., Three-sty stone dwell., 39' x 64' shingle roof; cost about \$8,000; own., Thomas P. Fiery; arch., Walter Smedley, 435 Chestnut St., Philadelphia.

MERCANTILE BUILDINGS.

Ambler, Pa.—Three-sty brick Gazette Building, 69' x 60'; estimated cost \$8,000; own., A. K. Thomas; con., Milton B. Biehn, Quakertown.
 Cincinnati, O.—Huckberry St., Walnut Hills, three-sty brick building; \$7,000; own., Henry Hunckley; con., Jacobs & Co.; arch., Samuel Hannaford & Sons.
 Everett, Mass.—Broadway, two-sty frame building for stores, offices and hall, 50' x 50', flat roof; \$15,000; own., Alonzo H. Evans, 534 Broadway; arch., George Moffette, Boston; bld., Fessenden & Libby, 35 Harvard St., Charlestown.
 Norfolk, Va.—Main St., bank and office building; own., Citizen's Bank; arch., Cassell & Cassell.
 Tarrytown, N. Y.—Two-sty brick and stone bank building; \$35,000; own., Westchester County Savings Bank; arch., Robertson & Manning, New York City.

STABLES.

Baltimore, Md.—Two-sty brick stable, 34' x 42', 1028 Homewood Ave.; own., Jno. Meers, 1028 Homewood Ave.
 Boston, Mass.—Arundel St., nr. Farquhar St., Ward 23, frame stable, 16' x 20', pitch roof; \$1,000; own. and bld., Wm. W. Griswold, 1 Knoll St., West Roxbury.
 Loring Wharf, Ward 14, frame stable, 40' x 72', flat roof; \$1,400; own., N. Ward Co.; arch. and bld., W. T. Eaton.
 Estey St., nr. Ellingswood St., Ward 19, brick stable, 29' x 29' x 30', flat roof, stoves; \$1,200; own. and bld., Peter Toban, 42 Terrace St.
 Everett, Mass.—Tremont St., one-and-one-half-sty frame stable, 20' x 20', pitch roof; furnace; \$400; own., Katherine Dallinger; bld., John Fenton.
 Malden, Mass.—Salem St., two-sty frame stable, 20' x 26', pitch roof; \$500; own. and bld., P. V. Allen.
 Medford, Mass.—Off Mystic Ave., two-sty frame stable, 30' x 30', pitch roof; \$800; own., arch. and bld., Eli Ayers, 4 Forest St.
 Abbott St., one-sty frame stable, 19' x 19', pitch roof; \$300; own., C. L. Fitzhenry; bld., H. A. Hopkins.
 Philadelphia, Pa.—Schuykill Ave., one-sty brick stable, 16' x 42'; own., F. K. Gerry, Schuykill Ave. and Peltz St.
 Main St., rear, No. 421, two-sty brick stable, 19' x 22'; own., A. Pointkowski, 421 Main St.

(Stables Continued.)

Wayne St., No. 5113, two-sty brick stable, 26' x 30'; con., E. A. Roth, 2321 North 26th St.
STORES.
 Brooklyn, N. Y.—Flatbush Ave., w s, 130' s Avenue C, three-sty brick store and dwell., 25' x 54', tin roof; \$5,000; own., E. Baller, 481 Gates Ave.; arch., J. L. Young, 1239 Bedford Ave.; bld., M. Walsh, 334 Lexington Ave.
 Fifty-ninth St., n e cor. 4th Ave., three-sty brick store and dwell., 25' x 70', tin roof, \$9,000; own., Mary I. Lucke, 202 Thirty-second St.; arch., W. H. Wirth, 358 Seventeenth St.; bld., H. Lucke, 202 Thirty-second St.
 Lewis Ave., s w cor. Hart St., 2 three-sty brick store and dwell., 20' x 58', tin roof; \$12,000; own. and bld., C. Welcher, 350 Greene Ave.; arch., B. Finkensieper, 93 Broadway.
 Hartford, Conn.—Temple St., four-sty brick store and tenement, 21' x 59'; \$7,000; own., H. Jonas; bld., Edward O'Neill; arch., Brooks M. Lincoln.
 Lynn, Mass.—Hollingsworth St., three-sty frame store and tenement, 35' x 86', flat roof, steam; \$7,000; own., E. S. Crocker; arch., G. E. Smith; not let.
 Boston and Marion Sts., three-sty frame store and tenement, 32' x 52', flat roof; \$6,000; own., M. Cahill; arch., G. E. Smith; not let.
 Newark, N. J.—Bloomfield Ave., No. 170, store and dwell.; \$6,000; arch., Albert H. Meigs.

TENEMENT-HOUSES.

Cambridge, Mass.—Marney St., three-sty frame tenement, 45' x 45', flat roof, stoves; own. and arch., Wm. F. Ross, 97 Spring St.; bld., J. A. McIsaac, 3 Washington St.

WAREHOUSES.

Baltimore, Md.—Three-sty brick warehouse, 24' x 52', 516 Ensor St., nr. Forrest St.; own., Evelyn Severs.
 Three-sty brick warehouse, 20' 6" x 40', Water St., bet. Light and Grant Sts.; own., Edward A. Bour.
 Boston, Mass.—Cross St., No. 111, Ward 6, brick storage, 30' x 108', flat roof, stoves; \$20,000; own., Austin & Dotten, 102 North St.; arch., Winslow & Wetherell; bld., S. F. Soule & Son.
 Chicago, Ill.—Frank Cuneo, four-sty brick warehouse, 37 South Water St.; \$7,500.
 Chicago Dock Co., one-sty brick warehouse, Farquhar St. and River; \$7,000.
 Pittsburgh, Pa.—Six-sty brick warehouse and factory; own., J. C. Paley, 243 Second Ave.; con., W. C. Wilkins, 121 Carnegie Building.

MISCELLANEOUS.

Boston, Mass.—Austin St., nr. Prison Point, Ward 5, frame milk-shed, 17' x 200', flat roof, steam; \$4,000; own., H. P. Hood & Son's Corp., 81 Austin St., Charlestown; arch. and bld., W. C. Edwards & Co.
 Cambridge, Mass.—Massachusetts Ave., Ward 2, brick store and iron building, 30' x 110', gravel roof; \$14,200; own., Dr. Geo. H. Southwick; bld., Crane & Rich; arch., C. H. McClure.
 Off Bridge St., three-sty frame coal storehouse, 135' x 135', flat roof; \$16,000; own. and bld., L. G. Burnham & Co.

(Miscellaneous Continued.)

Chicago, Ill.—New York, Chicago & St. Louis Ry. Co., one-sty frame grain-elevator, 90th St. and N. Y., C. & St. Louis tracks; \$15,000.

COMPETITIONS.

FOR Programmes of Competitions of Society of Beaux-Arts Architects for 1896-97, see *American Architect* for October 17 and 24, 1896. L.F.

PROPOSALS.

STEEL TOWER AND TANK, ETC.
 [At Port Royal, S. C.]
 Proposals are wanted until December 18, for steel tank and tower, and storehouse at U. S. Naval Station. Address E. O. MATTHEWS, Chief of Bureau of Yards and Docks, Navy Department, Washington, D. C. 1094

ELECTRIC WIRING.
 [At Buffalo, N. Y.]
 Proposals are wanted until December 5, for electric-wiring and fixtures for new infirmary building of State Hospital. Address FRED W. BROWN, Superintendent, 1326 Guaranty Building, as above. 1092

Treasury Department, Office Supervising Architect, Washington, D. C., November 19, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 18th day of December, 1896, and opened immediately thereafter, for furnishing all the labor and materials required to put in place complete all the plumbing and gas-piping for the United States Post-office building at Pueblo, Col., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Allegany, Pa. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1093

Treasury Department, Office Supervising Architect, Washington, D. C., November 18, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 16th day of December, 1896, and opened immediately thereafter, for furnishing all the labor and materials required to put in place complete all the plumbing and gas-piping for the United States Post-office building at Pueblo, Col., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Pueblo, Col. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated for opening the same will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1093

Topographical Index of Advertisers.

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New Britain.
 The Stanley Works.....[Wrought-Steel Butts.]
 New Haven.
 Fitch Co., The W. & E. T.....[Sash Lock.]

STAMFORD.

Yale & Towne Mfg. Co.....[Locks.]

DISTRICT OF COLUMBIA.

Washington.
 Washington Patent Agency.....[Patents.]

ILLINOIS.

Chicago.
 American Radiator Co.....[Radiators.]
 Danchy & Co.....[Vault-Lights.]
 Kelly, Thos. & Bros.....[Sanitary Supplies.]
 McCully Glass Company.....[Stained-Glass.]
 Northwestern Terra-Cotta Co.....[Terra-Cotta.]
 Pioneer Fireproof Construction Co.....[Fire-proofing.]
 Seely, H. B.....[Photography.]
 Taylor, J. W.....[Photography.]
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 Tiffany Enamelled Brick Co.....[Brick.]

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 Bedford Quarries Co.....[Stones.]

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Indianapolis Terra-Cotta Co.....[Terra-Cotta.]

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Dean Bros.....[Pumps.]
 Interior Hardwood Co.....[Hardwood Floors.]
 Lilly, Jno. M.....[Mosaic Floor.]

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 Sneed & Co. Iron Works.....[Iron Work.]

MAINE.

Calais.
 New Brunswick Red Granite Co.....[Red Granite.]

RED BEACH.

Maine Red Granite Co.....[Red Granite.]

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 Lowinson, Oca.....[Civil Engineers.]
 Maurer & Son, Henry.....[Fireproofing.]
 Miller & Coates.....[Bath-Tubs.]
 Mott Iron Works, J. L.....[Bath-Tubs.]
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 Neuchatel Asphalt Co.....[Asphalt.]
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 Jarden Brick Co.....[Bricks.]
 Manning, W. T.....[Filters.]
 Merchant & Co.....[Tin Roofing.]
 Morse, Williams & Co.....[Elevators.]
 Phoenix Iron Co.....[Structural Iron.]
 Taylor Co., N. & G.....[Sheet Metal.]
 Thorn, J. S. Co.....[Sheet Metal.]
 Thorn Shingle & Ornament Co.....[Metallic Shingles.]

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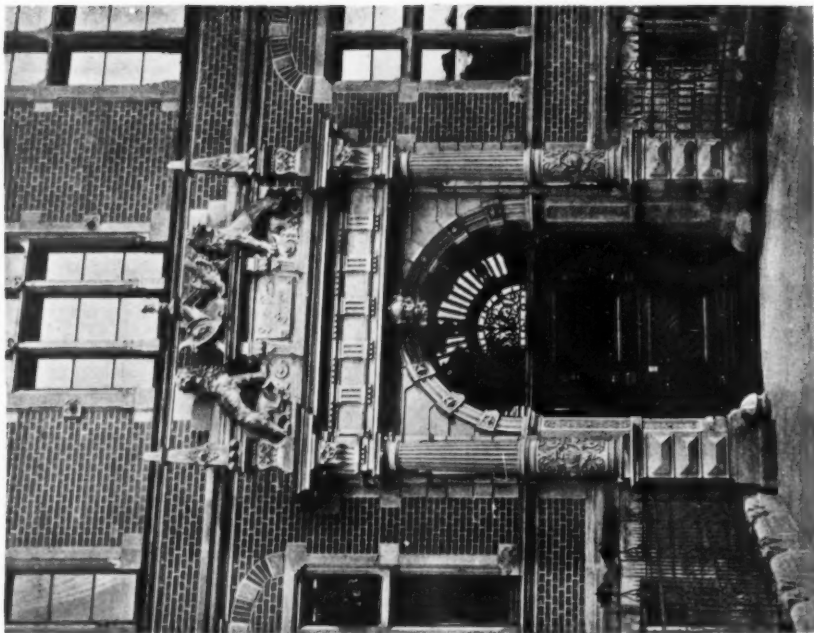
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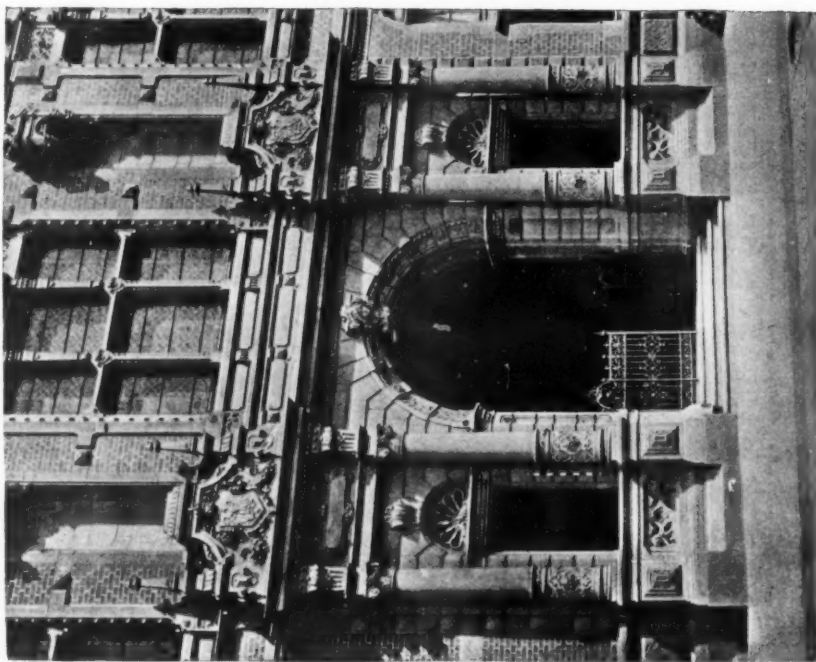
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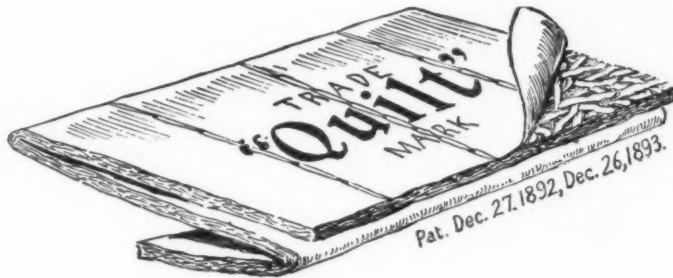
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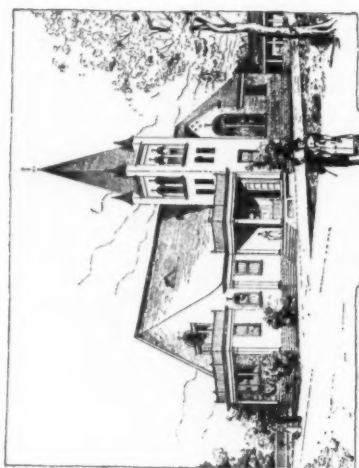
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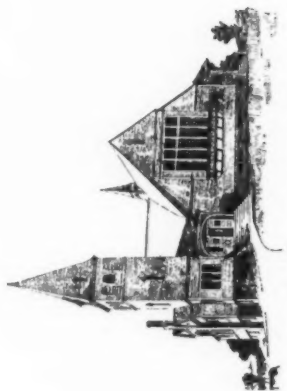
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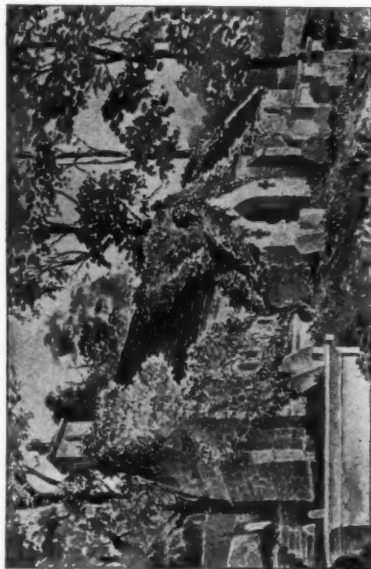
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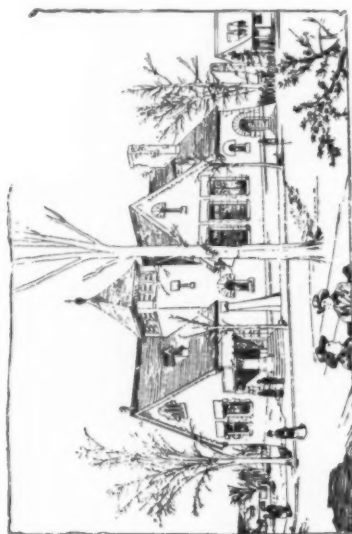
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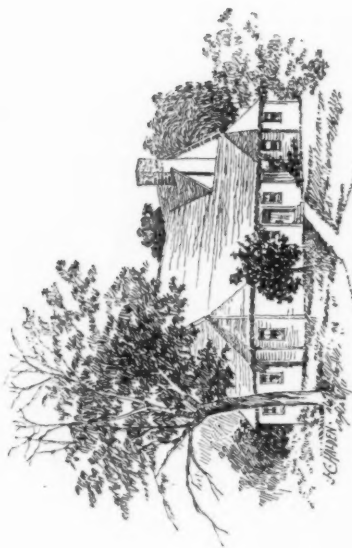
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St. Boniface's, Bonchurch, Isle of Wight, England.



Congregational Church, Ashland, Ohio.



Avery House, Pequonock, Conn.



Puritan Congregational Church, Wilkes Barre, Pa.

COUNTRY CHAPELS.

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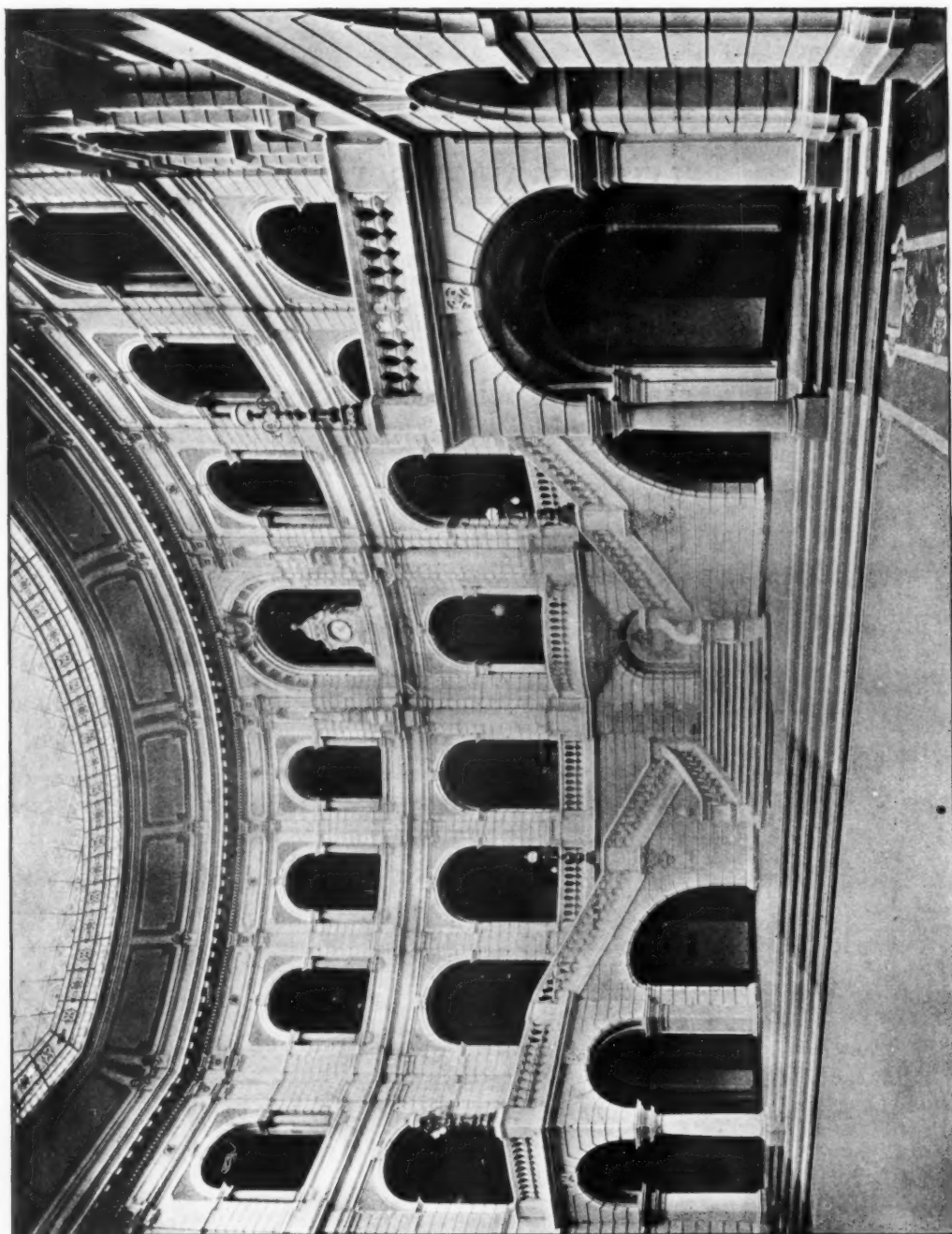
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EDITORIAL SUMMARY.
THE CHATEAU DE BLOIS. —III.
ELECTRIC WIRING.
NIAGARA ON TAP.
SOCIETIES.
COMMUNICATIONS.
NOTES AND CLIPPINGS.

HOUSE OF MRS. T. E. WILLIAMS, COMMONWEALTH AVENUE,
BOSTON, MASS.
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STAIRCASE OF FRANÇOIS I., CHATEAU DE BLOIS, FRANCE.
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SECTION OF THE SAME STAIRCASE.
DETAILS OF THE SAME: TWO PLATES.
THE OLD ROYAL HOUSE, MEDFORD, MASS.

PROPOSED ALTERATION AND ENLARGEMENT OF THE STATE
HOUSE, COLUMBUS, O.
ROYAL HOUSE, MEDFORD, MASS.: FOUR PLATES.
PROPOSED NEW MARKET BUILDING, ST. LOUIS, MO.
THE COURT OF HONOR, WORLD'S COLUMBIAN EXHIBITION,
CHICAGO, ILL.

DETAIL OF THE FACADE OF THE RAILWAY-STATION, FRANK-
FORT-ON-THE-MAIN, PRUSSIA.

BASE OF THE ELECTRIC-LIGHT MAST IN FRONT OF THE GAZEBO.

HOUSE, NO. 8 MOZARTSTRASSE, LEIPZIG, SAXONY

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Pittsburgh, Pa.

Macon, Ga., Dec. 17, 1898.

I have been a subscriber for the last thirteen years, and would miss the weekly visits of this paper very much. P. E. DENNIS, Architect.

Lexington, Ky., Dec. 8, 1891.

It has assisted us, at a moderate cost, in collecting a stock of publications which have assisted us greatly in the pursuit of our profession, and on which we rely a great deal for suggestions.

McDONALD BROS., Architects.

Classified Advertisements

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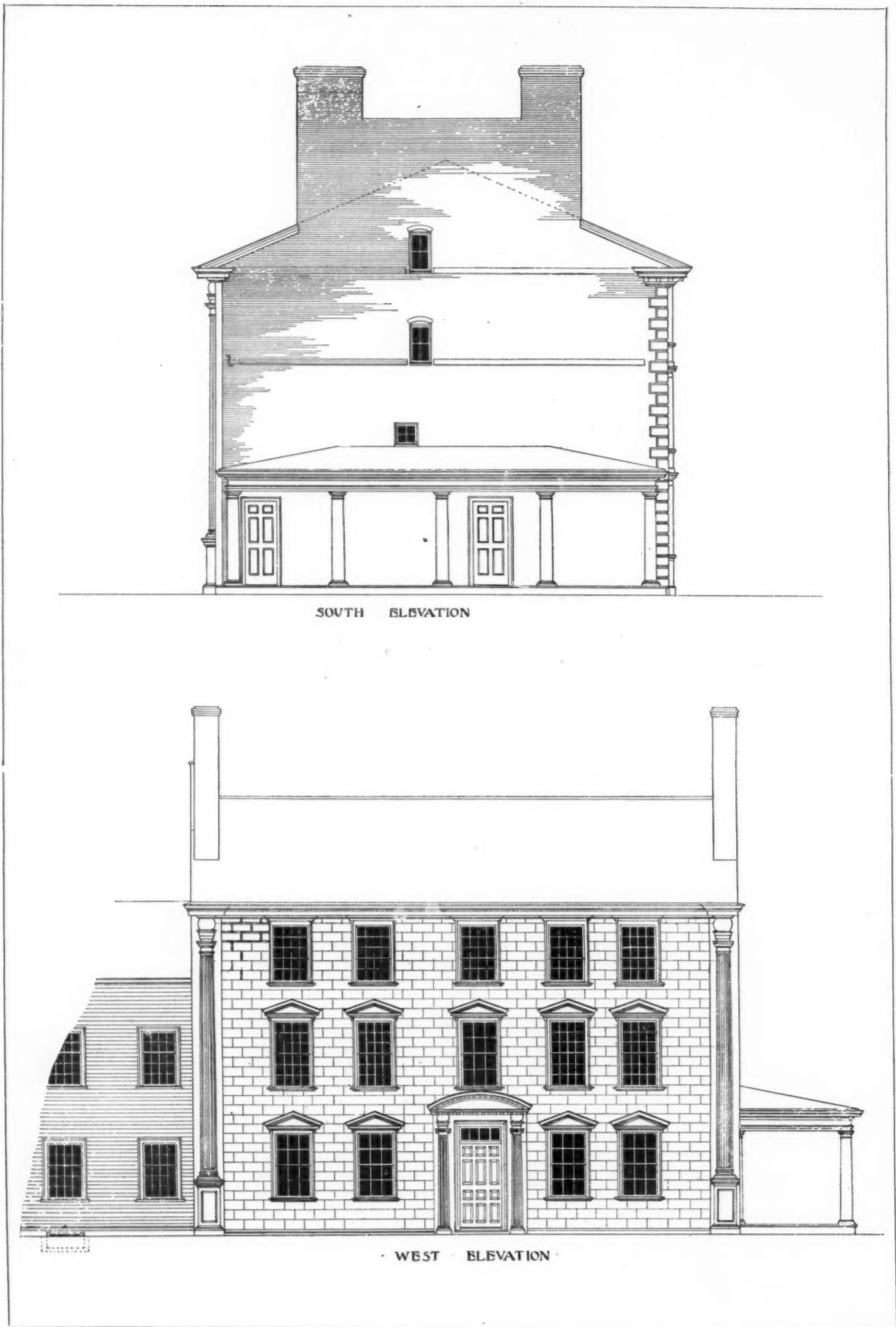
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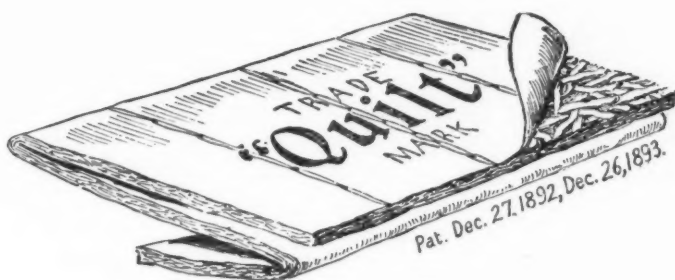
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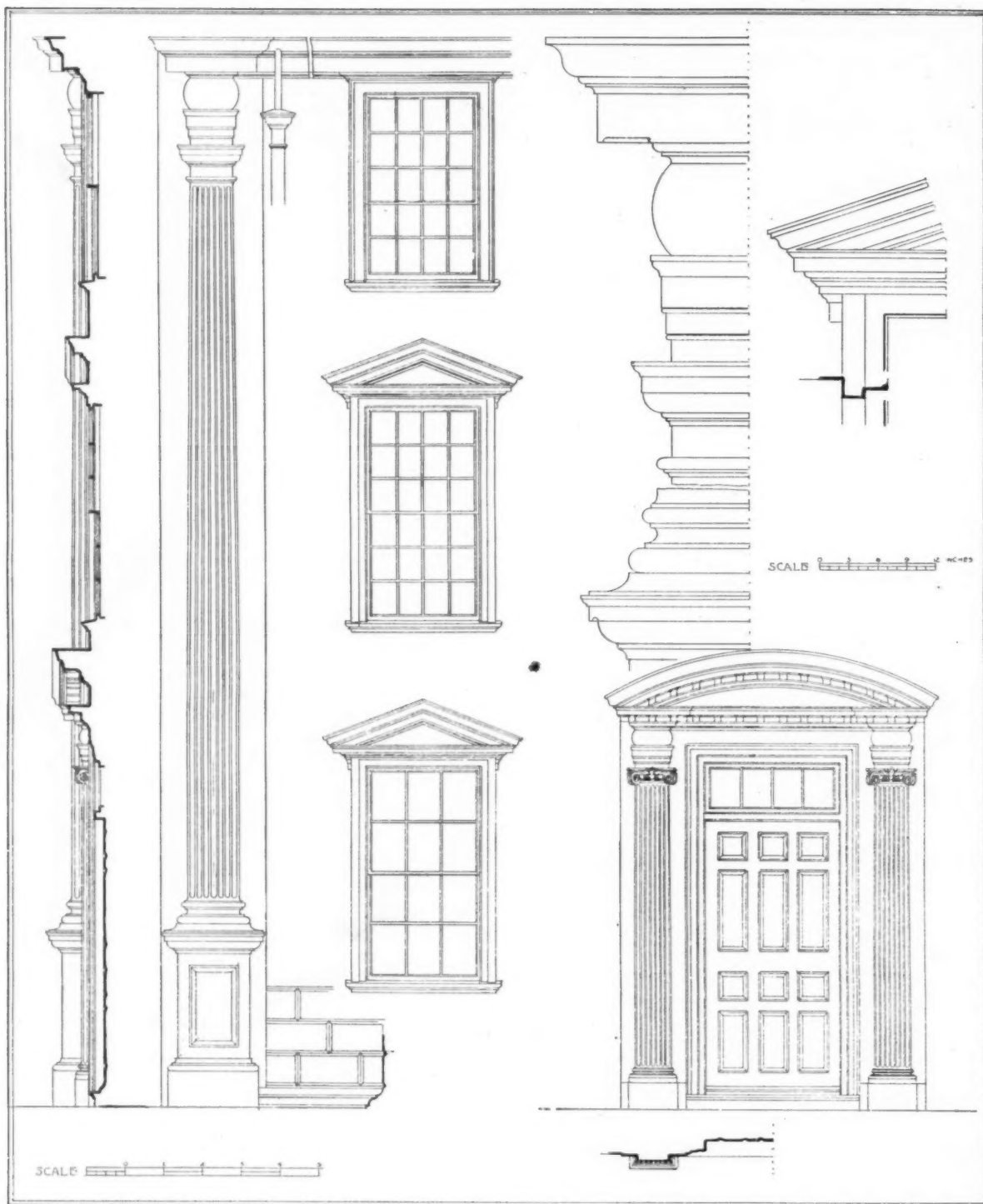
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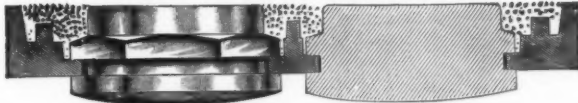
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BUILDING INTELLIGENCE.

(Houses Continued.)

Murdock St., cor. Appleton St., Ward 25, two-and-one-half-sty frame dwell., 27' x 34' x 38', pitch roof, hot water; \$6,000; own., L. O. Warren; bld., W. H. Haynes, Watertown.

Brooklyn, N. Y. — Forty-fifth St., n. s., 225' e 12th Ave., 2 two-sty and attic frame dwells., 18' x 30' shingle roofs; \$5,600; own., Noel Trahan, 310 Schermerhorn St.; arch., Howe & Hoover, 176 Broadway.

Fifty-sixth St., n. s., 150' w 4th Ave., 3 three-sty brick dwells., 20' x 50', tin roofs; \$10,500; own., W. S. Hassan, 149 Fifth-second St.; arch., T. W. Edwards, 233 Fty-third St.

Eastbridge St., e. s., 25' w Patchen Ave., 4 two-sty and basement brick dwells., 18' 9" x 45', tin roofs; \$16,800; own., H. Schlagel, 205 Schenck St.; arch., W. B. Willis, 17 Troutman St.

Eighty-fifth St., s. s., 160' w 2d Ave., two-sty and attic frame dwell., 34' x 38', shingle roof; \$7,000; own., E. H. Babcock, 140 Remsen St.; arch., S. S. Covert, 19 Park Pl.

Fourth Ave., s. s., 20' s 53d St., 2 three-sty brick dwells., 20' x 48', tin roofs; \$9,900; own., Olaf Olafson, 230 Fifty-fourth St.; arch., Thos. Bennett, 126 Third Ave.

Fifty-sixth St., n. s., 140' e 5th Ave., 2 three-sty brick dwells., 28' x 55', tin roofs; \$14,000; own. and bld., Frank Gelston, 1254 Third Ave.; arch., T. W. Edwards, 233 Fifty-third St.

Prospect Pl., n. s., 220' e Vanderbilt Ave., 6 four-sty brick dwells., 20' x 53', tin roofs; \$45,000; own., arch. and bld., Delaney & Collins, 94 Underhill Ave.

Monitor St., e. s., 80' n Nassau Ave., 2 two-sty and basement frame dwells., 20' x 43', gravel roofs; \$5,400; own. and bld., Martin Rourke, 92 Monitor St.; arch., P. Tillion, 249 Manhattan Ave.

Bergen St., n. s., 195' e Rogers Ave., 2 four-sty brick dwells., 20' x 50', tin roofs; \$16,000; own., Isaac Lewis & Son, 76 Hart St.; arch., Charles H. Roberts, 339 McDonough St.; bld., J. H. Roberts, 339 McDonough St.

Chicago, Ill. — S. F. Merchant, 2 two-sty brick dwells., 602-24 Kimbark Ave.; \$10,000.

E. F. Angell, 2 two-sty brick dwells., 700-702 Leeland Ave.; \$18,000.

E. Mendel, 2 three-sty brick dwells., 4756-58 Grand Ave.; \$25,000.

Christiana, Pa. — Dwell., \$6,000; own., J. F. Jackson; con., McNase & Peterson, Lansdale, Pa.

Germantown, Pa. — Knox St., e. s., Seymour St., 2 three-sty stone and brick dwells., 16' x 47'; own., Herman C. Kuhn, Knox St., bel. Seymour St.

Macon, Ga. — Hezharat St., two-sty brick dwell.; \$10,000; own., Harry S. Edwards; arch. and bld., W. F. Denny.

Oil City, Pa. — Dwell., cost about \$6,000; own., Dr. C. W. Coulter; arch., C. W. Terry.

Philadelphia, Pa. — Pine and Forty-first Sts., 3 three-sty and basement brick and stone dwells., 20' x 60', shingle roof; entire cost about \$16,000; own., Jas. Howard; con., J. F. Jackson, Chester, Pa.; arch., J. C. Newson, 1000 Chestnut St.

Three-sty stone dwell., 19' x 61', copper and tin roof; \$14,000; arch., Wm. J. Macaulay, 1102 Walnut St.

Sixteenth St., bel. Butler St., 10 three-sty Pompeian brick dwells., 16' x 53', tin roofs; entire cost about \$10,000; own. and bld., Harry Brookelhurst, Norris and 5th Sts.

Greenway Ave., Nos. 7125-27, 2 three-sty brick dwells., 16' x 40', own., E. K. Ellis, Greenway Ave. and 71st St.

Pine St., s. e. cor. 45th St., 10 three-sty brick dwells., 20' x 50'; own., Jno. G. Schall, 3226 Lancaster Ave.

Eaglesfield St., s. s. bet. 38th and 39th Sts., 38 two-sty brick dwells., 16' x 49'; own., Isaac Dunne, 908 Provident Bldg.

North Second St., No. 3407, three-sty brick dwell., 20' x 50'; con., Stahl Bros., 247 North 13th St.

Hope St., n. w. cor. Ontario St., 2 two-sty brick dwells., 16' x 28', and a two-sty brick dwell., 18' x 40', own., Joseph McKinley, 5th St. bel. Ontario St.

Spring Garden St., n. s. cor. 37th St., 4 three-sty brick dwells., 16' x 63'; own., Jno. Airey, 3467 Chestnut St.

Walnut Lane, s. s. Spring and Sarah Sts., three-sty brick and stone dwell., 18' x 25'; own., Jos. F. Graham, cor. Wisahickon and David Aves.

Paschallville Ave. and Seventy-third St., two-sty brick dwell., 32' x 32'; own., Robt. Clark, 247 Armat St.

Dickinson St., s. e. cor. Long Lane, three-sty brick dwell., 20' x 31'; own., Frank S. Riggs, 338 South 13th St.

Kalos St., s. e. s. Letta St., 5 two-sty brick dwells., 16' x 40'; own., Jno. A. Wright, Germantown and Nicetown Aves.

BUILDING INTELLIGENCE.

(Houses Continued.)

Foulkrod St., ab. Large St., three-sty brick dwell., 16' x 51'; con., Ploucher & Thirk, Adams and Horrocks Sts.

Stiles St., e. s. bet. Orthodox and Margaretta Sts., 2 two-sty brick dwells., 16' x 40'; con., F. M. Ploucher, 4550 Salmon St.

Stiles St., w. s. bet. Orthodox and Margaretta Sts., two-sty brick dwell., 16' x 40'; con., F. M. Ploucher, 4550 Salmon St.

St. Louis, Mo. — Two-and-one-half-sty dwell., s. s. Delmar St., bet. Newstead and Taylor St.; \$5,000; own., Mary Nicholson.

Two-sty dwell., n. s. Vernon St., bet. Clarendon and Union Sts.; \$4,800; own., F. Connors.

Two-and-one-half-sty dwell., n. s. Washington St., bet. Lake and Union Sts.; \$12,200; own., Howard Brolaski.

Two-sty dwell., s. s. Westminster Pl., bet. Kings-highway and Lake St.; \$5,000; own., W. Frantz.

Two-sty dwell., n. s. Vernon St., bet. Clarendon and Academy Sts.; \$4,000; own., E. S. Estes.

Two-and-one-half-sty dwell. and two-sty stable, n. s. Forest Park Boulevard, bet. Euclid and Newstead Sts.; \$9,000; own., Dr. D. Kuhn.

Summit, N. J. — Dwell., \$20,000; own., Charles N. Finch; arch., Rossiter & Wright, 92 Liberty St., New York City.

Upper Montclair, N. J. — Frame dwell., \$7,000; own., Mr. Benton; arch., Herman Fritz, Passaic.

Frame dwell., cost about \$6,000; own., Mr. Von Oertzen; arch., L. L. Bishop, Montclair.

Washington, D. C. — Thirteenth St. and Kenesaw Ave., 7 three-sty brick dwells., mansard roofs, steam; \$40,000; own., Barr & Tanner; arch., B. Stanley Simmons.

S St., bet. 17th and 18th Sts., N. W., four-sty brick and limestone dwell., 24' x 60', pitch slate roof, hot water; \$11,000; own., Wm. Bruce King; bld., W. S. Spencer; arch., Leon E. Dessez.

Worcester, Mass. — Southbridge St., three-sty frame dwell.; own., Chas. Sweeney; con., M. J. Reidy.

Litchfield St., three-sty frame dwell.; own., J. Warden; con., E. B. Rogers.

Millbury St., two-sty frame dwell.; own., Chas. Warren; con., F. J. Yates.

Pleasant St., two-sty frame dwell.; own., J. H. Howland; arch., Barker & Nourse.

MERCANTILE BUILDINGS.

Ocean City, N. J. — One-sty brick, iron and stone bank, 34' x 60', granite trimmings, copper roof; \$15,000; con., Harry Headley; arch., Thos. Stephen, Masonic Temple Building, Camden, N. J.; own., Central Trust Co.

Troy, N. Y. — Third and Fulton Sts., four-sty brick and stone business-block; \$225,000; own., W. H. Frear; arch., M. L. Smith & Son, Detroit, Mich.; not let.

OFFICE-BUILDINGS.

Brooklyn, N. Y. — Jamaica Ave., n. s. opp. Crescent St., one-sty frame office, 40' x 42', shingle roof; \$6,000; own., Cypress Hills Cemetery, on premises; arch., William Danmar, 44 Court St.; bld., K. A. Murphy, 26th Ward.

RAILROAD BUILDINGS.

Macon, Ga. — Fifth St., two-sty brick freight-house and depot; \$10,000; own., G. S. & F. Ry.; arch., W. F. Denny.

STABLES.

Boston, Mass. — Beech St., nr. Auburn St. Ward 23, one-sty frame stable, 32' x 40', pitch roof, stoves; \$1,500; own., George Whittemore; bld., Thomas E. Havey.

Mascot Ave., nr. Ballou St., Ward 24, one-sty frame stable, 20' x 20', pitch roof; \$800; own., Frank P. Mayberry, 28 School St.; bld., H. I. Lyon.

Cambridge St., cor. Murdock St., Ward 25, one-sty frame stable, 22' x 35' x 36', flat roof, stoves; \$1,000; own., P. D. Warren; bld., J. A. Dooley, 39 Leicester St., Brookline.

Chicago, Ill. — J. Aternia, one-sty private barn, 1245 South 43d St.; \$1,000.

St. Louis, Mo. — Two-sty stable, n. s. Washington St., bet. Lake and Union Sts.; \$2,000; own., H. Brolaski.

Worcester, Mass. — Alvarado Ave., one-and-one-half-sty frame stable; own., J. J. Kittredge; con., W. F. Blanding.

STORES.

Chicago, Ill. — J. Segersten, three-sty brick store and flats, 1708 North Clark St.; \$5,500.

Wm. Kent, seven-sty brick store and flats, 149-155 Plymouth Pl.; \$100,000.

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(Stores Continued.)

New York, N. Y. — Henry St., Nos. 54-6, 2 six-sty brick stores and tenements, each 25' x 80'; \$40,000; own. and bld., Kidansky & Fine, 309 Henry St.; arch., Horenburger & Straub.

TENEMENT-HOUSES.

Boston, Mass. — Anderson St., No. 40, Ward 11, five-sty brick tenement and store, 26' x 52', flat roof, stoves; \$15,000; own., H. Roenthal, 23 Willard St.; arch., West & Granger; not let.

New York, N. Y. — Monroe St., Nos. 82-84, six-sty brick tenements and store, 30' x 90'; \$35,000; own., Jacob Fischel, 197 Henry St.

WAREHOUSES.

Baltimore, Md. — Five-sty brick warehouse, 30' x 50', n. s. Fayette St., bet. Charles and Liberty Sts.; own., George W. Wambach, 605 South Paca St.

Pittsburgh, Pa. — Second Ave., six-sty brick warehouse; \$12,000; arch., Boyd & Long, Hamilton Building.

MISCELLANEOUS.

Chicago, Ill. — Elevated Ry. Loop Construction Co., two-sty brick power-station, 290 Market St.; \$250,000.

Keyser, W. Va. — Car repair-shops; \$15,000; own., Baltimore & Ohio R. R. Co., Wm. T. Manning, Chief Engineer.

Springfield, Mass. — Chestnut St., brick fire-engine house; \$10,000; own., City; arch., B. H. Seabury; not let.

COMPETITIONS.

FOR Programmes of Competitions of Society of
Beaux-Arts Architects for 1896-97, see *American
Architect* for October 17 and 24, 1896. t.f.

PROPOSALS.

Treasury Department, Office Supervising Architect,
Washington, D. C., December 4, 1896. Sealed propo-
sals will be received at this office until 2 o'clock P. M.

TO THE ARCHITECTS.

HAVE YOU TRIED OUR

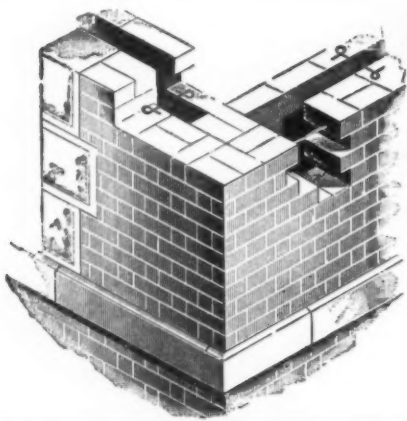
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PROPOSALS.

on the 5th day of January, 1897, and opened immediately thereafter, for all the labor and materials required for the interior finish of basement, first-story, etc., of the United States Court-house, Custom-house and Post-office at Omaha, Neb., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Omaha, Neb. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1095

Treasury Department, Office Supervising Architect, Washington, D. C., December 8, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 6th day of January, 1897, and opened immediately thereafter, for all the labor and materials required for the erection and completion (except heating apparatus) of the United States Post-office building at Lynn, Mass., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Lynn, Mass. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1095

ELECTRIC AND GAS FIXTURES.

Proposals are wanted until December 26 for electric and gas fixtures in Public Library. Address W. B. WICKERSHAM, Secretary, as above. 1095

TERRA-COTTA.

Proposals are wanted until January 5, for furnishing and setting in place terra-cotta for two bridges in Lake Park. Address BOARD OF PARK COMMISSIONERS, City-hall, as above. 1096

ELECTRIC-WIRING, ETC.

Proposals are wanted until January 6, for electric-wiring, etc., at Massillon State Hospital. Address A. B. RICHARDSON, Secretary, as above. 1096

COURT-HOUSE.

Proposals are wanted until January 25, for court-house for De Kalb County. Address T. J. FLAKE, Chairman Board of Commissioners of Roads and Revenues, as above. 1097

OFFICERS' QUARTERS.

Proposals are wanted until December 26, for double set of N. C. officers' quarters. Address MAJOR W. S. PATTEN, as above. 1095

PROPOSALS.

HOSPITAL.

Proposals are wanted until January 14, for the University Hospital for the State University of Iowa. Plans, etc., at office of Josselyn & Taylor Co., Cedar Rapids. Address WM. J. HADDOCK, Secretary of Board of Regents, Iowa City. 1097

STEEL TOWER AND TANK, ETC.

Proposals are wanted until December 18, for steel tank and tower, and storehouse at U. S. Naval Station. Address E. O. MATTHEWS, Chief of Bureau of Yards and Docks, Navy Department, Washington, D. C. 1094

HIGH SCHOOL.

Proposals are wanted until December 15, for new high-school building. Plans, etc., at office of Wason Mfg. Co., Brightwood, Springfield, or office of Hartwell, Richardson & Driver, 62 Devonshire St., Boston. Address CITY CLERK, Springfield. 1094

COUNTY BUILDING.

The Committee on Site and Public Buildings, of the Board of Supervisors, and the Board of County Auditors of Wayne County, Mich., will, on the fourteenth (14) day of December, 1896, at eleven o'clock A. M. (Standard Time) at the office of the County Auditors in the City of Detroit, County of Wayne, and State of Michigan, receive sealed proposals for the furnishing of all materials and labor for the construction of the Wayne County Building, to be erected in the City of Detroit, in accordance with drawings and specifications for said building now on file at the office of John Scott & Co., Architects, No. 67 Moffat Block, Detroit, Mich. A certified check payable to the order of Wm. Richert, Chairman, for five (5) per cent of the amount of bid to accompany each proposal, as a guarantee that the successful bidder will enter into a contract for the completion of the work named in said bid. The Committee and Board reserve unto themselves the right to reject any or all proposals that they may deem for the best interests of the County. 1094

The Committee on Site and Public Buildings,
By WM. RICHERT, Chairman,
The Board of County Auditors,
By LOU BURT, Chairman,
By HENRY M. REYNOLDS, Secretary.
Detroit, Mich., November 23, 1896. 1094

HIGH SCHOOL.

Proposals are wanted until December 29, for Central High-school Building. Address H. W. COMPTON, Clerk of Board of Education, as above. 1094

STONE.

Proposals are wanted until December 16, for 30,000 tons, more or less, of granite or other hard and durable rock upon jetties at mouth of St. John's River. Address LT.-COL. W. H. BENYAUD, U. S. Engineer, Office, St. Augustine, Fla. 1094

Professional Ethics.

The following...

... CODE OF ETHICS ...

Prepared in Conformity with the Best Standards of Practice, and Recommended to its Members by the Boston Society of Architects, was

ADOPTED BY THE SOCIETY, FEBRUARY 1,
... 1895. ...

SECTION 1. No Member should enter into partnership, in any form or degree, with any builder, contractor, or manufacturer.

SECTION 2. A Member having any ownership in any building material, device or invention, proposed to be used on work for which he is architect, should inform his employer of the fact of such ownership.

SECTION 3. No Member should be a party to a building contract except as "owner."

SECTION 4. No Member should guarantee an estimate or contract by personal bond.

SECTION 5. It is unprofessional to offer drawings or other services "on approval" and without adequate pecuniary compensation.

SECTION 6. It is unprofessional to advertise in any other way than by a notice giving name, address, profession, and office hours, and special branch (if such) of practice.

SECTION 7. It is unprofessional to make alterations of a building designed by another architect, within ten years of its completion, without ascertaining that the owner refuses to employ the original designer, or, in event of the property having changed hands, without due notice to the said designer.

SECTION 8. It is unprofessional to attempt to supplant an architect after definite steps have been taken toward his employment.

SECTION 9. It is unprofessional for a Member to criticise in the public prints the professional conduct or work of another architect except over his own name or under the authority of a professional journal.

SECTION 10. It is unprofessional to furnish designs in competition for private work or for public work, unless for proper compensation, and unless a competent professional adviser is employed to draw up the "conditions" and assist in the award.

SECTION 11. No Member should submit drawings except as an original contributor in any duly instituted competition, or attempt to secure any work for which such a competition remains undecided.

SECTION 12. The American Institute of Architects' "schedule of charges" represents minimum rates for full, faithful and competent service. It is the duty of every architect to charge higher rates whenever the demand for his services will justify the increase, rather than to accept work to which he cannot give proper personal attention.

SECTION 13. No Member shall compete in amount of commission, or offer to work for less than another, in order to secure the work.

SECTION 14. It is unprofessional to enter into competition with or to consult with an architect who has been dishonorably expelled from the "Institute" or "Society."

SECTION 15. The assumption of the title of "Architect" should be held to mean that the bearer has the professional knowledge and natural ability needed for the proper invention, illustration and supervision of all building operations which he may undertake.

SECTION 16. A Member should so conduct his practice as to forward the cause of professional education and render all possible help to juniors, draughtsmen and students.

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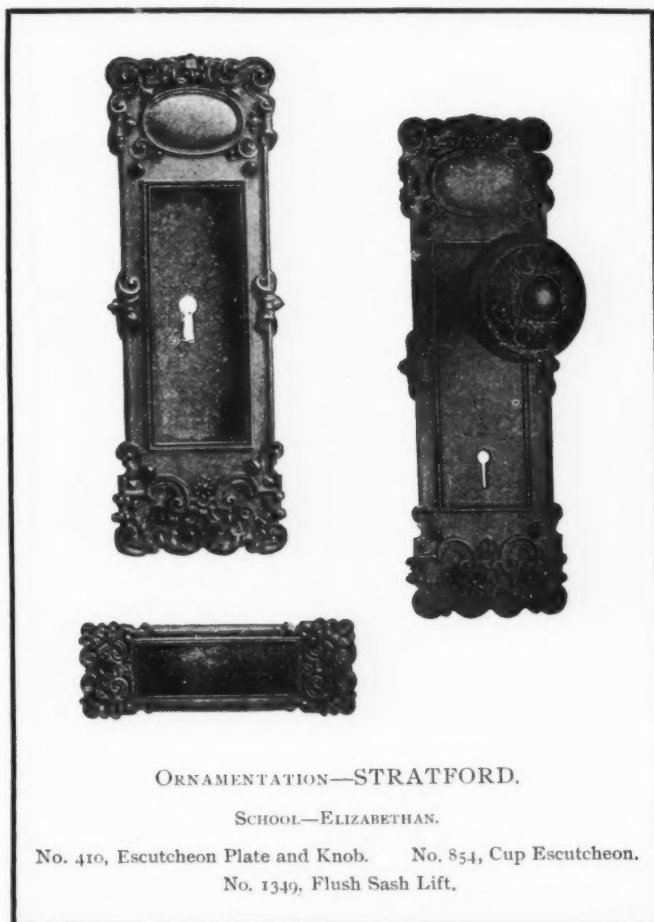
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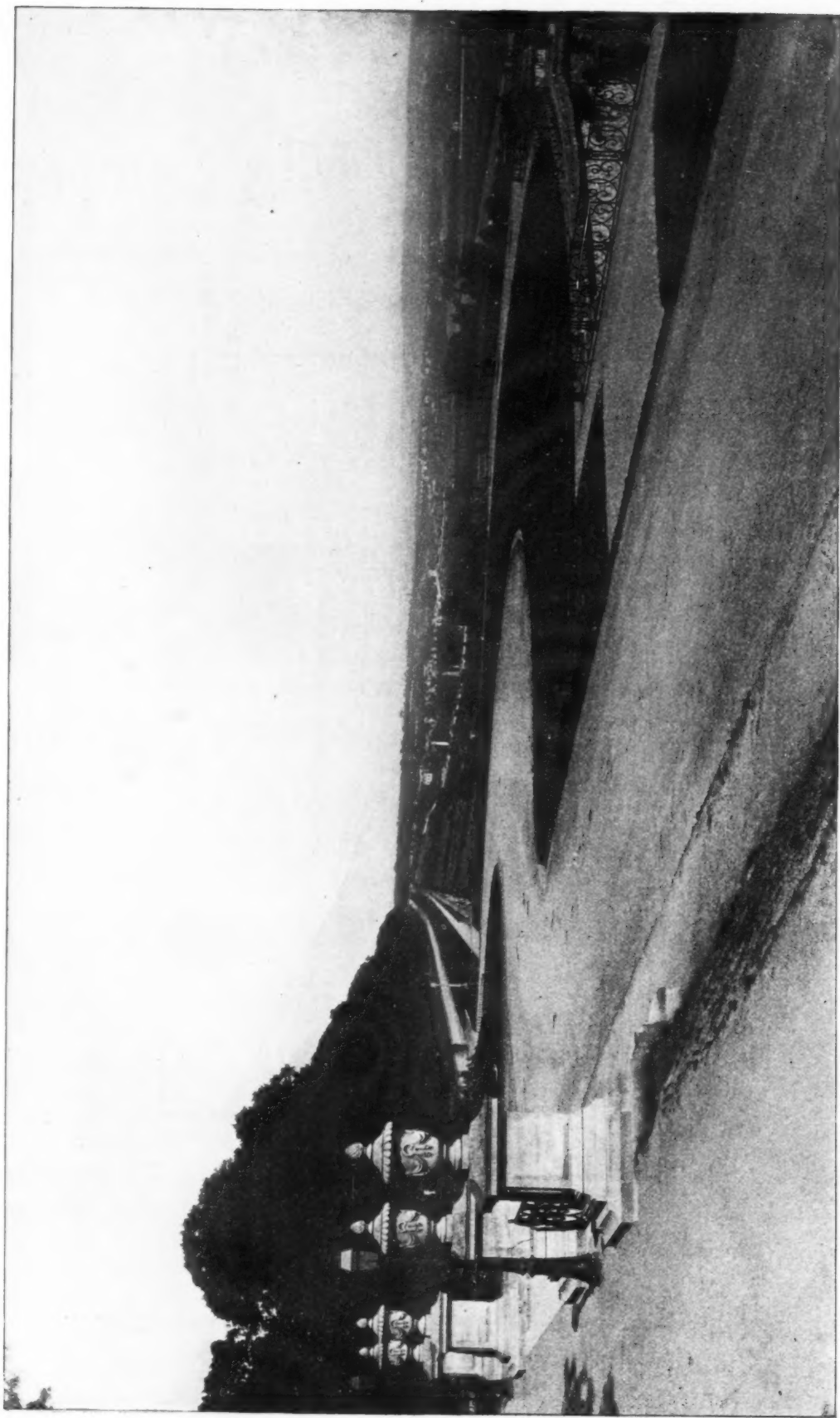
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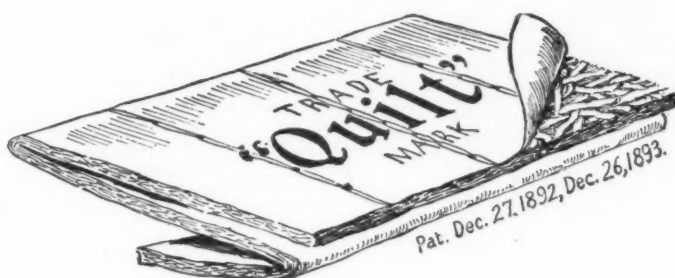
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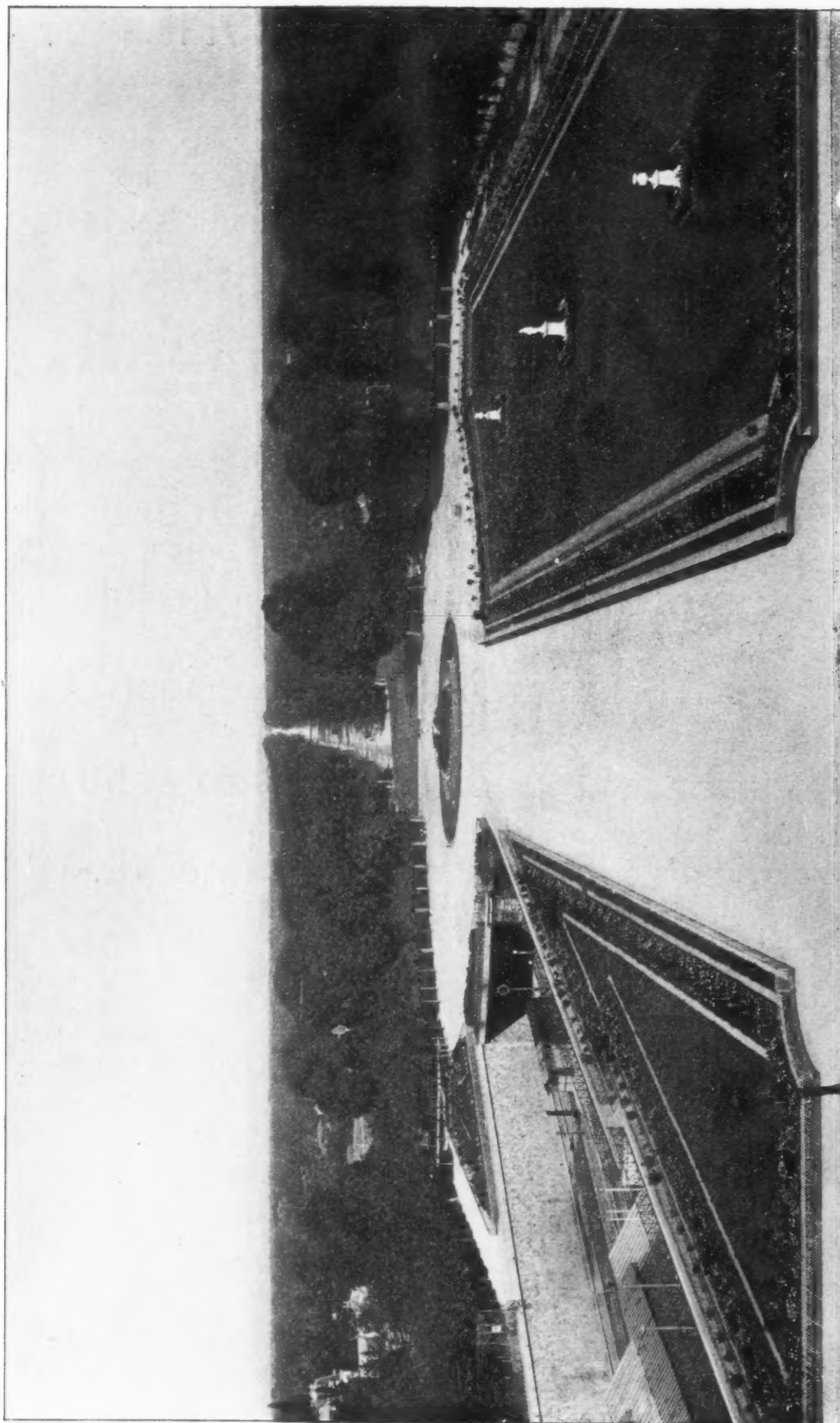
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[At Cincinnati, O.]
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ARMORY.

[At Ogdensburg, N. Y.]
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[At Cleveland, O.]
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COURT-HOUSE.

[At Decatur, Ga.]
Proposals are wanted until January 25, for court-house for De Kalb County. Address T. J. FLAKE, Chairman Board of Commissioners of Roads and Revenues, as above. 1097

Treasury Department, Office Supervising Architect, Washington, D. C., December 14, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 7th day of January, 1897, and opened immediately thereafter, for all the labor and materials and erecting complete either a hydraulic or electric passenger-elevator, also new steam-boiler, etc., for the United States Court-house and Post-office building at Topeka, Kan., in accordance with the drawing and specification, copies of which may be had at this office or the office of the Custodian at Topeka, Kan. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated

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for opening will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1096

HOSPITAL.

[At Iowa City, Ia.]
Proposals are wanted until January 14, for the University Hospital for the State University of Iowa. Plans, etc., at office of Josselyn & Taylor Co., Cedar Rapids. Address WM. J. HADDOCK, Secretary of Board of Regents, Iowa City. 1097

ELECTRIC-WIRING, ETC.

[At Massillon, O.]
Proposals are wanted until January 6, for electric-wiring, etc., at Massillon State Hospital. Address A. B. RICHARDSON, Secretary, as above. 1096

TERRA-COTTA.

[At Milwaukee, Wis.]
Proposals are wanted until January 5, for furnishing and setting in place terra-cotta for two bridges in Lake Park. Address BOARD OF PARK COMMISSIONERS, City-hall, as above. 1096

OFFICERS' QUARTERS.

[At Governor's Island, N. Y.]
Proposals are wanted until December 26, for double set of N. C. officers' quarters. Address MAJOR W. S. PATTEN, as above. 1095

ELECTRIC AND GAS FIXTURES.

[At Chicago, Ill.]
Proposals are wanted until December 26, for electric and gas fixtures in Public Library. Address W. B. WICKERSHAM, Secretary, as above. 1095

Treasury Department, Office Supervising Architect, Washington, D. C., December 4, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 5th day of January, 1897, and opened immediately thereafter, for all the labor and materials required for the interior finish of basement, first-story, etc., of the United States Court-house, Custom-house and Post-office at Omaha, Neb., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Omaha, Neb. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1095

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❖ 1897 ❖

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will be that portion of the year's programme which its subscribers will most welcome. These additional illustrations will be devoted largely to the topical exhibition of certain architectural motives.

It is believed, furthermore, that efficient steps have been taken to procure from American architects a fuller supply of drawings of the more interesting work now done throughout the country, which will make it unnecessary to publish so large an amount of country and suburban dwellings which—although they form the bulk of the practice of most architects—become somewhat tiresome through too constant iteration.

THE demands made upon our space by matters of current interest, of which the precise character cannot be predetermined, make it both undesirable and dangerous to announce a programme for the text-matter which can have any of the "drawing" qualities of the prospectus of a popular magazine.

There must be finished, of course, the serial papers on "The United States Capitol," by Mr. Glenn Brown; on "Architectural Statics," by Mr. O. F. Semsch, and further portions of the papers on "Protestant Churches."

In the way of new matter our subscribers may expect the following, amongst other papers:—

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We question whether the necessity of recording matters of current interest will allow us to make use of even these few papers, or of others which are in preparation and might be mentioned.

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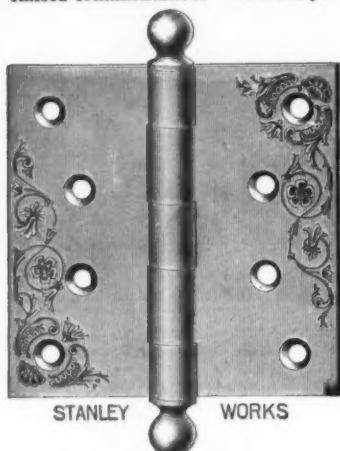
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" Monson, Me.....	5.50 @ 8.00	5.50 @ 8.00	5.50 @ 9.20	6.50 @ 9.00
Tiles, Am..... P M.	@	@	Salt-glazed tiles	@ 28.00
N. Peach Bottom, war unfading	@	@	9" 8c. per ft.	5.76 @ 6.25
Fire Clay Roof Tile on cars at fac.	8.00 @	8.00 @	6.00 @ 6.50	8.60 @
BRICK.—P M.				
Common: Cargo afloat.				
Pale.....	2.00 @ 2.25	Domestic Com.	Building 4.50	In Yard.
Jersey.....	3.50 @ 4.25	3.50 @ 9.50	sower add 1.00	hollow, add 1.25
Long Island.....	4.00 @ 4.50	Domestic Face	Enam. Imp. Bk.	Sq. Hard 9.00 @ 11.00
Up River.....	4.25 @ 4.50	18.00 @ 25.00	125.00 @ 145.00	@ 8.00
Haverstraw Bay 2d.....	4.75 @ 5.00	Philadelphia	Enam. Domes.	Salmon @ 6.00
" 1st.....	4.75 @ 5.00	35.00 @ 40.00	70.00 @ 85.00	Sq. Light Stretchers
Hollow.....	10.00 @ 11.00	10.00 @ 11.00	Select Red Sand-	11.00 @ 14.00
Fronts:			Mold.....10.00	Medium " "
Croton, Brown.....	10.50 @ 11.00	Phila. mould	St. Louis Hyd'le	Red " "
" dark.....	12.00 @	50.00 @ 80.00	Press.....27.00	" " "
" red.....	12.00 @		Collinsville, do	Dark " "
Chicago pressed (Anderson).....		Enamelled B'k.	" " "	Pres-ed " "
" Moulded.....		Imported	Findlay, do 22.00	@ 13.00
Baltimore.....	37.00 @ 41.00	Enam. (edge)	Chicago, do	Best Paving " "
Philadelphia.....	19.00 @ 21.00	95.00 @ 105.00	assorted shades	11.00 @ 15.00
Trenton.....	17.00 @ 18.00	" (edge & end.)	16.00 @ 20.00	Second " "
Milwaukee.....		115.00 @ 120.00	Chicago, do	Third " "
Moulded:		Domestic.	Brown.....24.00	@ 12.00
Glens Falls Red Pressed.....	@ 29.00	Enam. (edge)	Chicago, do Red	
" Buff.....	@ 27.00	90.00 @ 100.00	Roman.....24.00	
" Moulded Red & Buff	45.00 @ 70.00	" (edge & end.)	Chicago, do Br'n	
Enamelled: Imp		110.00 @ 115.00	Roman.....27.00	
Enamelled (edge).....	85.00 @ 100.00		Bushnell Buff	
Enamelled (edge and end).....	90.00 @ 110.00		25.00	
CEMENT, LIME, etc. (Per cu. sk.)				
Rosendale Cement.....	80 @ 85	1.10 @ 1.20	Not sold.	1.30 @ 1.50
Louisville.....	Not sold.	Brooks, S. & Co.	75 @ 1.00	S. H. F's 1.20 @ 1.50
Utica, Akron, Buffalo, Milw'ke.	2.25 @ 2.50	2.20 @ 2.50	75 @ 1.00	BS&Co 2.20 @ 2.60
Portland, Eng. (Gibbs).....	2.50 @ 3.00	@ 2.50	2.50 @ 2.60	2.85 @ 3.15
" (K. B. & S.).....	2.25 @ 2.50	2.20 @ 2.50	2.50 @ 2.60	2.30 @ 2.60
" (Black Cross).....	2.25 @ 2.50	2.20 @ 2.50	2.50 @ 2.60	2.85 @ 3.15
" (Burnham).....	2.50 @ 2.50	@ 5.00	2.50 @ 2.60	2.75 @ 2.85
" (White's).....	2.65 @ 3.00	2.75 @ 3.00	2.50 @ 2.60	Bel'n 2.10 @ 2.40
" French (Lafarge).....	3.60 @ 3.75		3.75 @ 4.25	Hemmoor
" Ger. (Alsen).....	2.90 @ 3.25		2.90 @ 3.20	2.50 @ 2.75
" (Fewer).....	2.25 @ 2.40		Alpha, American	2.75 @ 2.85
" (Vorwöhler).....	2.50 @ 2.90		2.60 @ 2.70	Josson
" (Lagerdoff).....	2.75 @ 3.00	2.75 @ 3.00	2.60 @ 2.90	2.60 @ 2.75
" (Dyckerhoff).....	2.50 @ 3.00		3.10 @ 3.30	3.10 @ 3.25
" (Hanover).....	2.35 @ 2.45		2.75 @ 2.90	2.75 @ 2.85
" Stettin, (Anchor).....	@ 2.00		2.85 @ 3.00	B. Egl. 2.50 @ 2.75
" Amer. (Saylor's).....	2.75 @ 3.00	@ 3.50	2.60 @ 2.70	2.70 @ 3.00
Roman.....	4.25 @ 4.75	7.00 @ 9.00	2.75 @ 3.25	3.00 @ 3.50
Keene's coarse.....	6.50		6.00 @ 7.00	6.50 @ 7.00
superfine.....			9.00 @ 10.00	8.00 @ 9.00
Lime:				
Lime of Teal.....	@ 4.00		Not sold.	White Lime per bush
Hydraulic Lime.....	@ 1.45		45 @ 55	25 @ 30
Chicago Lime in bulk.....	{ St. John		45 @ 55	{ White Mash
Wisconsin Lime.....	@ 70		Not sold.	1.25 @ 1.50
Rockland and Rockport, (Tom.).....	@ 60	@ 90	Not sold.	1.00 @ 1.00
Rockland, finish.....	@ 70	@ 95	Not sold.	
Kelley Island Lime, finish.....	@ 60	Not sold.	1.00 bush, 75c.	
State, Com. cargo rates.....	@ 1.00	Not sold.	Not sold.	Not sold.
Plaster of Paris (casing).....	1.30 @ 1.40	1.85 @ 2.00	1.65 @ 1.75	1.50 @ 2.25
" (casting).....	@ 1.60	@ 2.25	1.75 @ 1.90	1.75 @ 2.50
Hair (cattle) per bush.....	14 @ 16	25 @ 30	12 @ 20	20 @
" (Goat).....	18 @ 21	@ 30	20 @ 25	30 @
Sand, per load.....	1.00 @ 1.25	1.75 @ 1.90	1.00 @ 1.25	

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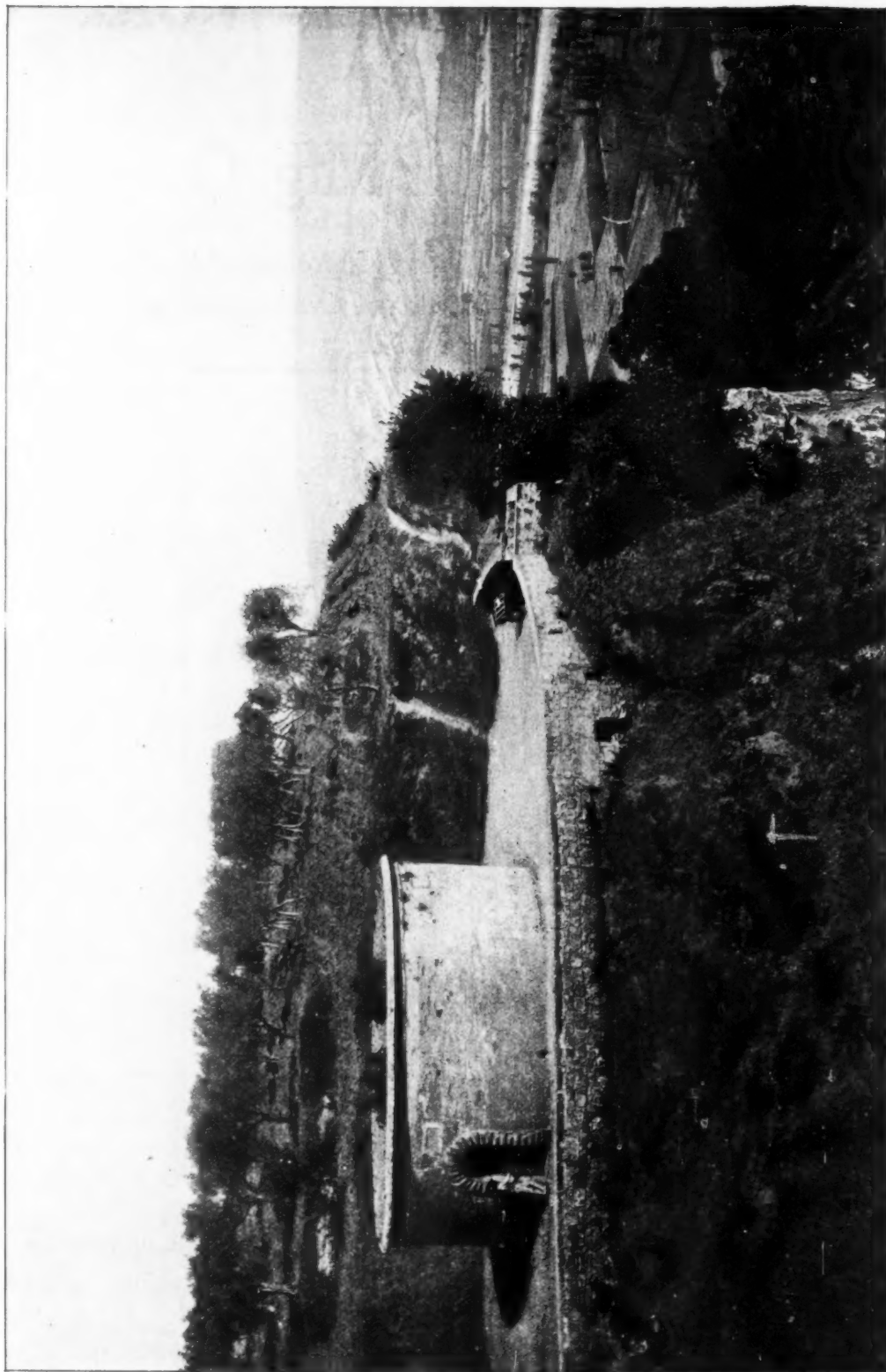
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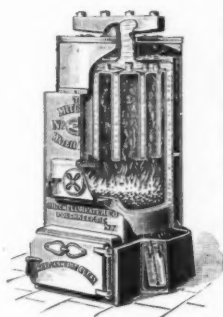


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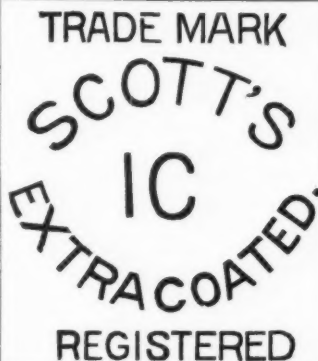
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	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
HARDWARE.				
Nails: (P Cask.) Spikes, (wt' ght.)				
10d. common	@ 2 85	@ 3 65	2 15 @ 2 75	per keg @ 2 25
Shingle	@ 3 35	@ 4 05	@ 1 55	@ 2 30
Lath	@ 4 85	@ 4 15	4d @ 1 80	@ 2 60
(Finishing, according to size.)	@	@	3d fine @ 2 00	@ 4 75
(For casing, add 75 c. per keg.)	@	@	Add .25 to \$1 15	per lb. 4
Butts: 4" x 4" (P doz. pairs.)	@	@	.15 to \$1.00	Add per cas. 2 90 (all kind)
Plain	@ 1 00	@ 1 00	@ 90	@ 90
Japanned	@ 1 50	@ 1 50	Not sold.	1 35 @ 2 00
Acorn, Japanned	@ 1 50	@ 1 50	1 00 @ 1 75	1 35 @ 2 75
Bail Tip, Boston Fin. (P pair.)	@ 65	@ 33	1 35 @ 3 50	48 @
Bronze metal	@ 1 90	plain 1 10	1 00 @ 3 50	@ 1 25
Brass (for cupboards)	@ 10	@ 10	@ 12	@ 1 00
Knobs: (P pair.)				
Ebony	@	@ 18	@	@ 35
Apple wood	@	@ 33	@	37 @ 1 00
Mineral, best	@ 8	@ 7	8 @ 10	@ 08
Lava	@ 50	@ 75	65 @ 80	Not sold.
Hemlock	Not sold.	17 @ 33	15 @ 40	25 @ 50
Porcelain	@ 30	@ 10	8 @ 10	@ 25
Glass, solid	Not sold.	@ 50	Not sold.	60 @ 2 50
Glass, silvered	Not sold.	88 @ 1 00	Not sold.	1 75 @ 2 00
Bronze metal	75 @ 2 00	50 @ 1 00	75 @ 3 00	50 @ 3 50
Brass	1 00 @ 2 50	50 @ 1 00	75 @ 3 00	75 @ 1 25
Solder:				
Sheet Lead	@	@ 6 1/2	@ 7	13 1/2 @ 16
Lead Pipe	@	@ 5 1/2	5 1/2 @ 6	@ 6 1/2
Iron:				
I-Beams, 10 and including 30 ft.	33-10 @ 3 1/2	@ 2 65	Any length	@ 2 8-14
Channel Beams	33-10 @ 3 1/2	@ 2 65	1 70 @ 2 25	@ 2 8-14
			1 70 @ 2 25	@ 2 8-10
LUMBER.—P M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	50 00 @ 60 00	47 50 @ 60 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	42 00 @ 50 00	38 00 @ 48 50
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	20 00 @ 28 00	27 50 @ 36 50
Spruce	@ 25 00	12 00 @ 18 00	Not sold.	15 00 @ 21 50
Hemlock	20 @ 14	12 00 @ 14 00	10 00 @ 12 00	11 50 @ 13 75
Yellow pine	20 @ 40	20 00 @ 35 00	18 00 @ 25 00	14 00 @ 20 00
Cypress	@	28 00 @ 40 00	30 00 @ 35 00	30 00 @ 38 00
Clapboards:				
Pine	@	38 00 @ 55 00	25 00 @ 30 00	14 00 @ 25 00
Spruce	@	24 00 @ 35 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 50 @ 18 00	15 00 @ 25 00	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	15 00 @ 21 50
Hemlock	18 00 @ 21 00	18 00 @ 28 00	10 00 @ 15 00	14 00 @ 20 00
Yellow pine	@	@	16 00 @ 25 00	22 50 @ 30 00

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	New York.	Boston.	Chicago.	Philadelphia.
LUMBER.—P. M. (Continued.) (Wholesale Prices.) (Prices to Builders and Contractors.)				
Laths: Spruce Slab.....	1 50 @ 1 60			
Pine.....	Round Wood	2 25 @ 2 50	1 90 @ 2 00	2 75 @ 3 00
Spruce.....	@	1 65 @ 2 25	Not sold.	2 30 @ 2 35
Shingles:				
Pine, shaved..... P. M.	5 80 @ 6 00	@	Not sold.	
Pine, sawed..... "	4 00 @ 5 00	@ 4 50	2 80 @ 2 75	
Spruce, sawed..... "	1 50 @ 2 00	1 50 @ 1 75	Not sold.	
Redwood..... P. M.	1 40 @ 1 60	2 90 @ 3 25	4 60 @ 6 00	{ 30" \$35 @ 40
Cedar split..... P. M.	Red Cedar	2 00 @ 3 50	Not sold.	{ 24" 8 @ 21
Cedar sawed..... "	@	2 00 @ 3 25	2 50 @ 2 90	{ 20" 35 @ 14
Cypress, Split..... 7 x 24 "	18 00 @ 20 00	5 00 @ 6 00	@	11 00 @ 14 00
Miscellaneous:				
Piles..... P. ft.	4 1/2 @ 5 1/2	Piles 6c. P. ft.	10 @ 15 P. ft.	
Fence pickets, Common.....	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 15 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.).....	@	25 @ 50	7 ft. 11 @ 50	40 @ 1 50
Chestnut posts.....	@	25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First.)				
Ash..... (Qual. Kiln-dried)	@ 55 00	45 00 @ 55 00	27 00 @ 33 00	40 00 @ 50 00
Cherry.....	80 00 @ 120 00	90 00 @ 120 00	80 00 @ 100 00	100 00 @ 120 00
Butternut.....	40 00 @ 60 00	60 00 @ 70 00	30 00 @ 35 00	70 00 @ 90 00
Hard-pine floors (rift).....	@ 1-0 00	160 00 @ 170 00	130 00 @ 190 00	150 00 @ 250 00
Mahogany, Baywood (Mexican).....	@ 35 00	120 00 @ 350 00	140 00 @ 200 00	200 00 @ 400 00
St. Domingo.....	45 00 @ 50 00	45 00 @ 50 00	20 00 @ 30 00	30 00 @ 80 00
Maple.....	@ 70 00	40 00 @ 50 00	30 00 @ 35 00	40 00 @ 55 00
Oak, red.....	@ 70 00	40 00 @ 50 00	31 00 @ 35 00	42 50 @ 55 00
" white.....	@ 90 00	65 00 @ 75 00	43 00 @ 50 00	60 00 @ 75 00
" quartered.....		50 00 @ 65 00	30 00 @ 33 00	51 50 @ 65 00
Sycamore quartered.....		50 00 @ 75 00	50 09 @ 55 00	65 00 @ 75 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	40 00 @ 55 00	60 00 @ 75 00
Redwood.....	60 00 @ 70 00	50 00 @ 70 00		
Rosewood..... P. lb.	@ 6	28 00 @ 32 00		
Spruce floorsclear, (kiln-dried).....	123 00 @ 150 00	85 00 @ 120 00	75 00 @ 95 00	50 00 @ 175 00
Walnut, black.....	45 00 @ 50 00	35 00 @ 45 00	33 00 @ 38 00	25 00 @ 45 00
Whitewood..... P. M.	@ 45 00	40 00 @ 42 00	2 50 @ 30 00	@ 45 00
PAINTS. (In Oil P. lb.)				
White Lead, Am.....	7 @ 7 1/2	5 1/2 @ 5 1/2	5 1/2 @ 6	@ 7 1/2
" Zinc.....	5 @ 8 1/2	6 @ 7	5 1/2 @ 6	@ 7 1/2
Red Lead, Am.....	6 1/2 @ 7	5 1/2 @ 5 1/2	5 1/2 @ 6	@ 7 1/2
" Venetian.....	6 @ 10 1/2	7 @ 12	dry 1 1/2 @ 2 1/2	dry Eng. @ 7 1/2
" Vermillion.....	65 @ 70	65 @ 75 dry	" 6 1/2 @ 65	Eng. @ 7 1/2
" Indian, Eng.....	12 @ 20	12 @ 20	" 12 @ 20	dry Am. 6 1/2 @ 7
Yellow Ochre.....	6 @ 15	7 @ 12	" 3 @ 15	@ 1 1/2
" Chrome.....	12 @ 20	14 @ 20	" 15 @ 25	@ 1 1/2
Green (chrome).....	8 @ 13	8 @ 20	" 8 @ 20	@ 21
Green, Paris.....	25 @ 40	17 @ 19	" 20 @ 30	" 15 @ 20
Black, lamp.....	15 @ 25	15 @ 25	" 10 @ 30	8 @ 12
Blue, ultramarine.....	12 @ 18	18 @ 30	" 12 @ 35	10 @ 24
Oil, linseed, (raw).....	55 @ 62	33 @ 35	38 @ 45	@ 60
" (boiled).....	58 @ 65	36 @ 38	42 @ 48	@ 63
Turpentine.....	36 @ 37	31 @ 33	35 @ 40	@ 44
Varnish, coach.....	@	1 50 @ 6 00	1 25 @ 2 00	1 25 @ 3 00
Shellac.....	@	2 50 @ 3 00	2 25 @ 4 00	1 50 @ 3 00
Putty.....	2 @	2 @ 4	dry 2 @ 2 1/2	2 @ 2 1/2
Whiting.....	75 @ 1 00	1 @ 1 1/2	" 1 @ 1 1/2	1 @ 1
Paris white, (Eng.).....	1 30 @ 2 00	@ 2	" 1 1/2 @ 2	1 1/2 @ 2
Litharge, Am.....	14 @ 6	5 1/2 @ 6 1/2	" 6 1/2 @ 7	@ 7 1/2
Sienna (burnt).....	14 @ 20	14 @ 18	" 4 @ 16	4 @ 14
Umber.....	14 @ 20	14 @ 18	" 2 @ 10	2 @ 13

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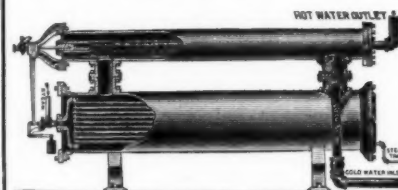
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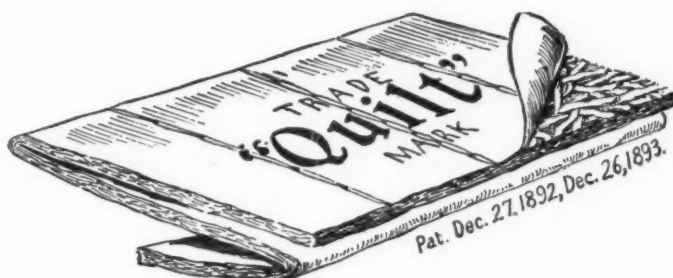


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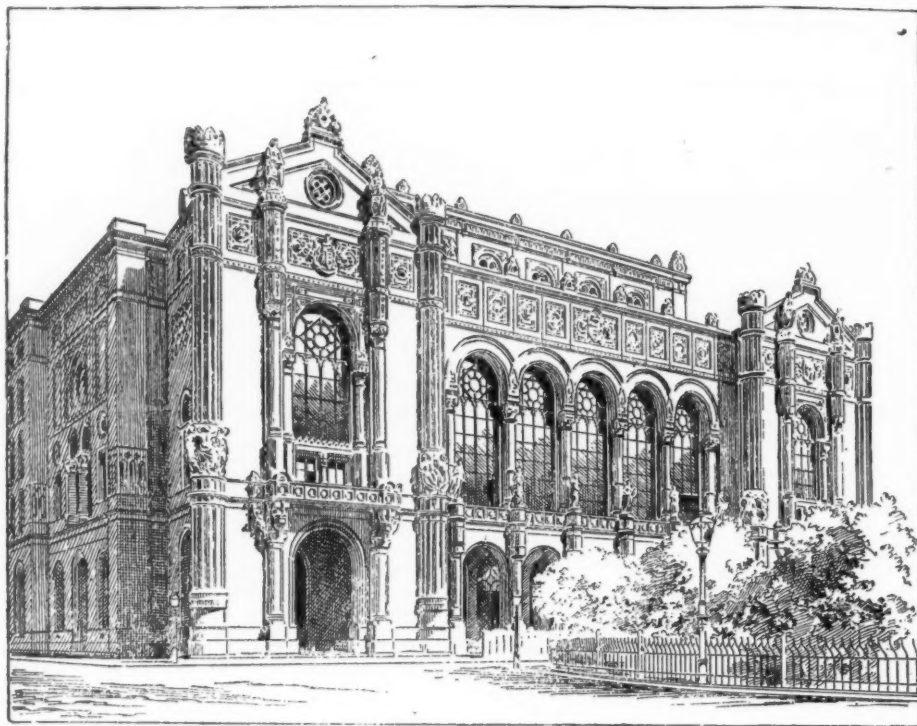
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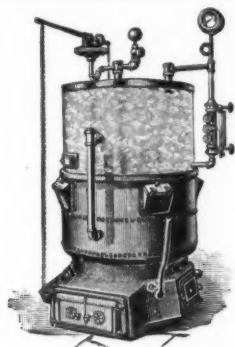
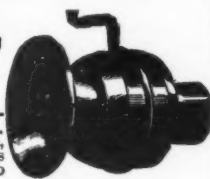
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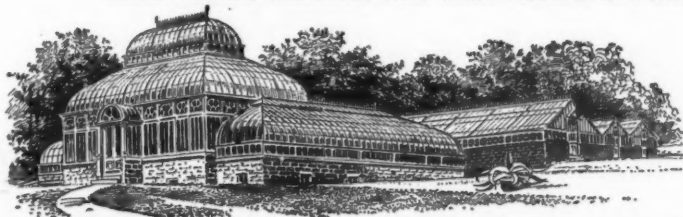
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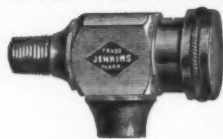
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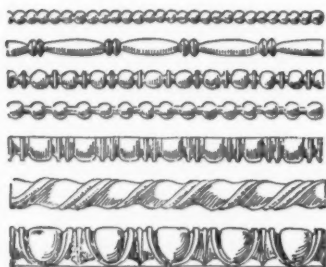
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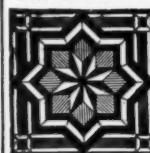
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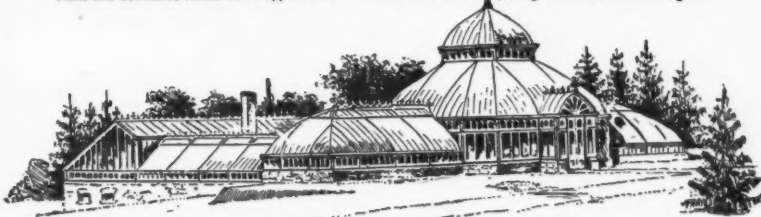
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[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for ten cents.]

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- 573,158. METALLIC FURRING FOR BUILDINGS.—John T. McCormick, San Francisco, Cal.
- 573,165. SAFETY-WINDOW IN SHAPE OF A LADDER.—Franz Scherrer, Essen-on-the-Ruhr, Ger.
- 573,261. REVERSIBLE WINDOW-SASH.—Frank Cramblitt, Baltimore, Md.
- 573,267. BEDSIDE SASH LIFT AND LOCK.—Donald Fletcher, Denver, Col.

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BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ADVANCE RUMORS.

Baltimore, Md.—The building of an engine-house to cost about \$15,000 is contemplated.

Boston, Mass.—The Massachusetts Bicycle Club will build, in the spring, a four-story brick clubhouse, 30' x 90', on Parker St., at the entrance to the Fens.

Brookline, Mass.—Little, Brown & Moore, of Boston, have made plans for 5 houses to be built for Edward A. Bangs, corner of Aspinwall and Toxoth Sts.

Brooklyn, N. Y.—A new parish hall is to be built on Berry St. bet. South 2d and South 3d Sts. It will be two-story and basement, will cost about \$200,000, and will probably be named the McCadden Memorial Hall. It will be connected with the Church of Sts. Peter and Paul, of Wythe Ave.

A subscription has been started for a new hospital in Greenpoint. At first a building will be rented.

Buffalo, N. Y.—St. Joseph's Collegiate Institute will build a brick structure, costing from \$20,000 to \$40,000, on Elmwood Ave. Several competitive plans have been received and are now being considered.

It is said that L. H. Lempert of Rochester will be the architect of the new theatre to be built on Main St., by the Metropolitan Theatre Co.

The Richmond Ave. M. E. Church is to build a brownstone church, corner of Richmond Ave. and Ferry St., to cost about \$45,000. Metzger & Greenfield are preparing the plans.

A new hotel and theatre building, to cost about \$1,750,000, is to be built early next year on the site now occupied by the Tift House and the old Lafayette St. Church. It will be ten stories high, fronting 135' on Main St., 100' on Broadway and 258' on Washington St. Joseph E. Gavin has charge of the financial part of the project. Richard A. Waite is the architect.

Decatur, Ga.—Golucke & Stewart, of Atlanta, have prepared plans for a new court-house.

Des Moines, Ia.—Reed & Stem, of St. Paul, Minn., have planned a freight-depot and warehouse for

[Continued on page xv.]

POTSDAM RED SANDSTONE.



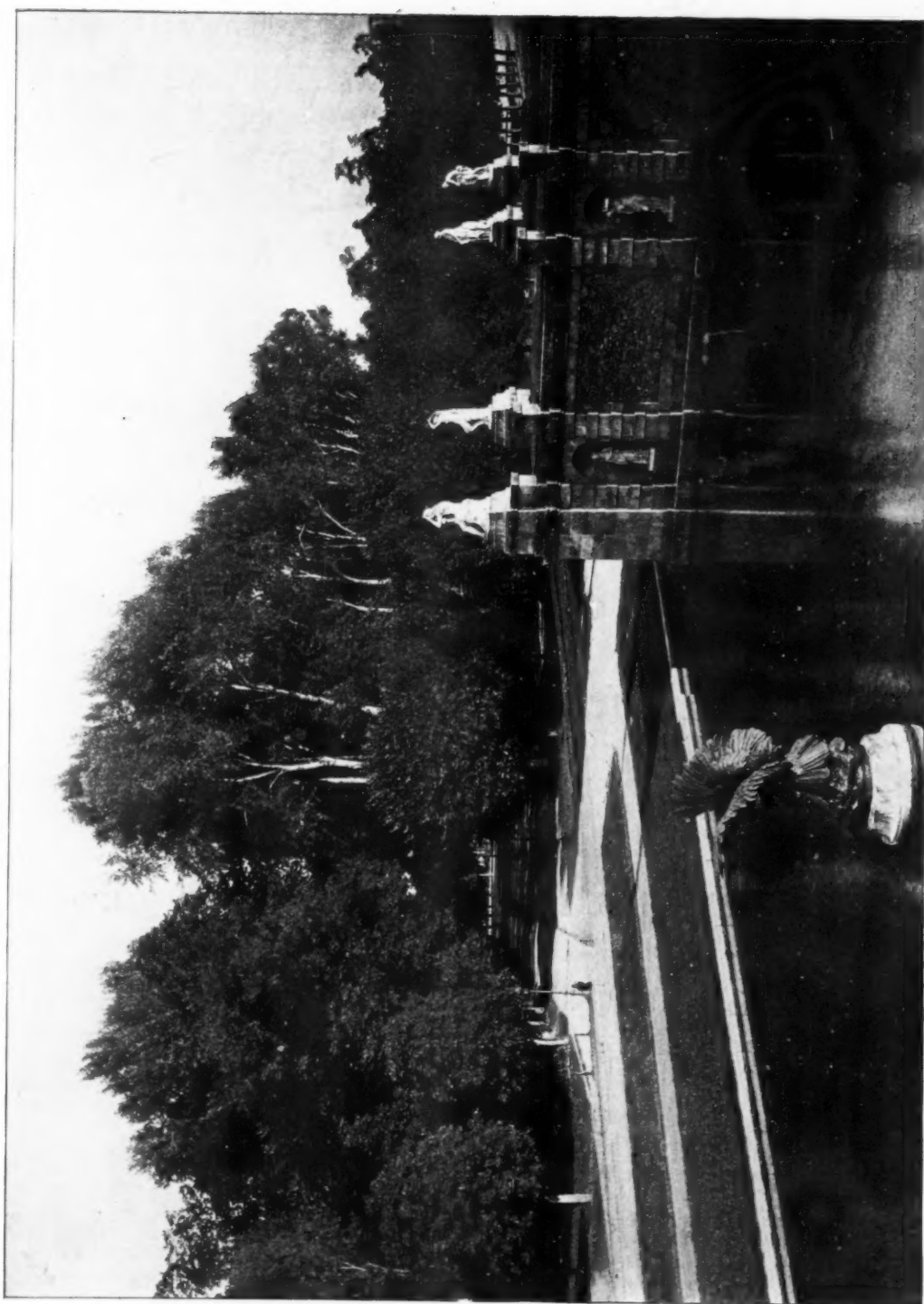
We have lately issued a new pamphlet re-printed with illustrations from an editorial article from "The Scientific American" which we will be glad to send on application to any one desiring to examine it.



Address

The Potsdam Red Sandstone Co.
POTSDAM, N. Y.

ACCESSORIES OF LANDSCAPE ARCHITECTURE. NO. XL.



BASIN OF THE CASCADE IN THE PARK AT FONTAINEBLEAU.

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PLATE 1497-G.

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Each Closet is furnished complete as shown. No Flush-pipe is required, the outlet at bottom of Cistern connecting directly with the inlet of the Closet.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

- Chicago Great Western Ry. Co., 50' x 150', pressed-brick and stone, slate roof; \$35,000. Work to be commenced at once.
- Fargo, N. D.—Bassford & Donahue, of St. Paul, Minn., will make details for superstructure for Catholic Cathedral, foundations being put in last year. 90' x 150', superior brownstone, slate roof, seating 1,000; \$65,000.
- Greenwood, S. C.—A court-house, cost about \$25,000, will be built.
- Jeffersonville, Ga.—The building of a court-house to cost about \$20,000 is contemplated.
- Los Angeles, Cal.—N. C. Madden, of Chicago, is to build a seven-sty brick and iron block, costing \$120,000, on King St.
- Medford, Mass.—Tufts College will receive about \$30,000 for a Memorial Hall building, from the estate of Mrs. S. R. Jackson, of Providence, R. I.
- Minneapolis, Minn.—Grace Presbyterian Church has purchased corner of Emerson Ave. and 31st St. and will build a brownstone church next spring, plans being now prepared. Rev. E. C. Dayton, 815 West 31st St., pastor.
- Mobile, Ala.—The Y. M. C. A. has had plans prepared by Watkins & Johnson, for a fireproof building, 56' x 165', with ell, 45' x 83', to cost about \$40,000.
- Newton, Mass.—The new station which the Boston & Albany R. R. will build in the spring will be a large structure of stone and brick.
- Niagara Falls, N. Y.—The Albright & Wilson Electro Chemical Co. will build a plant to cost \$40,000. The Cataract Construction Co. will put up 8 factory buildings. Dobbie & Stewart will build a new plant.
- Omaha, Neb.—Henry Voss has made plans for a seven-sty business-block to be built for Robinson Bros. on the site of their present store on Broadway.
- Pittsburgh, Pa.—The Casino, which was destroyed by fire December 17 with a loss of \$500,000, is to be rebuilt.
- Portsmouth, N. H.—It is said that Hon. Frank Jones thinks of building an opera-house on Vaughan St.
- Providence, R. I.—The Wm. H. Low estate, J. E. Studley, agent, will build a six-sty brick and stone business-block on Westminster St., from plans by Martin & Hall.
- Sacramento, Cal.—The Fred W. Wolf Co., of Chicago, have made plans for a large brewery to be built for the Sacramento Brewing Co. at a cost of \$80,000.
- Springfield, Mass.—The directors of the Odd Fellows Building Association are looking for a site for a temple.
- Toledo, O.—Plans have been submitted for a new Exchange Building.
- The Ohio Central Railway Co. intends to build a new depot on the east side in the spring.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

- Washington, D. C.—Plans are now being made for the new Western High School building at 35th St. and New Cut Road, Georgetown. It is to be four stories, brick, 75' x 175', and cost \$100,000, without heating or ventilating.
- ALTERATIONS AND ADDITIONS.**
- Boston, Mass.—Court St. No. 28, Ward 6, brick building to have three stories added for offices and passenger-elevator; own., United States Trust Co.; arch., C. H. Blackall.
- Brooklyn, N. Y.—Bryant St., n. s. 170' e Henry Slip, one and two-sty iron-works, one and two-sty wood and iron extension, 52' 4" x 100', to be added; \$7,000; own. and arch., Milliken Bros., 39 Cortlandt St., New York.
- Cambridge, Mass.—Sidney St., three-sty frame and brick addition, 90' x 90', flat roof, stoves; \$11,000; own., Alex. F. Wardworth; bld., C. Leake, 25 Warland St.; arch., Wm. F. Goodwin, Boston.
- Chicago, Ill.—A. Kean, two-sty brick addition to 6420-22 Hope St.; \$14,000.
- St. Louis, Mo.—Alterations to building, e s Broadway, bet. Walnut and Market Sts.; \$5,000; own., J. H. Douglas.
- APARTMENT-HOUSES.**
- Boston, Mass.—Washington St., Nos. 1686-92, Ward 12, 4 four-sty brick apartment-houses, 18' x 23' x 99', flat roof, steam; \$50,000; own. and bld., John H. Mullen, 725 Shawmut Ave.
- Humboldt Ave., No. 73, Ward 21, five-sty brick aparts., 48' x 77', flat roof, steam; \$32,000; own., M. Varnum Swift, 51 Bicknell St.
- Chicago, Ill.—Wm. Morris, three-sty brick apartment-building, 6901 Prairie Ave.; \$15,000.
- M. Bryor, three-sty brick flats, 6342 Ingleside Ave.; \$8,000.
- J. C. Dailey, three-sty brick flats, 5015 Calumet Ave.; \$8,000.
- G. W. Crew, three-sty brick flats, 3938 Indiana Ave.; \$8,500.
- Frank Slepicka, two-sty brick flats, 788 South California Ave.; \$5,500.
- George Weidon, 2 three-sty brick flats, 6327-27 1/2 Parnell Ave.; \$20,000.
- A. J. Toolen, four-sty brick apartment-building, 2718-20 Indiana Ave.; \$25,000.
- New Haven, Conn.—Admiral and Annum Sts., 3 three-sty brick apartment-houses; \$21,000; own. and bld., Eric & Stone; arch., Brown & Von Beren.
- Chapel St., four-sty brick building for 12 flats, stores on first floor; \$40,000; own., Simon Goldreyer; arch., George C. A. Brown; not let.
- New York, N. Y.—One Hundred and Sixty-third St., nr. Amsterdam Ave., 2 five-sty brick flats, 25' x 100', steam; \$44,000; own., John Freidel, 516 West St.; arch., John C. Burne.
- One Hundred and Fifty-fourth St., nr. Courtlandt Ave., 5 four-sty brick flats, 25' x 70', steam; \$79,000; own., George Stolz, 2866 Third Ave.; arch., A. F. A. Smith, 604 Courtlandt Ave.
- East One Hundred and Sixtieth St., No. 677, five-

BUILDING INTELLIGENCE.

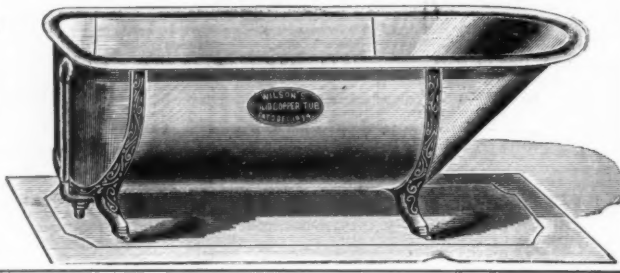
(Apartment-Houses Continued.)

- sty brick flats, 30' x 80'; \$16,000; own., Wm. Sherwood, 683 East 160th St.; arch., Richard R. Davis.
- One Hundred and Thirtieth St. and St. Nicholas Ave., five-sty brick flats, 30' x 80'; \$100,000; own., Anna J. Lennon, 73 West 71st St.; bld., William F. Lennon; arch., Edward Wenz.
- Eighty-seventh St., nr. 5th Ave., 3 six-sty marble front apartment-houses, each 40' x 42' 4"; \$150,000; own. and bld., Graziadio & Co., 2186 First Ave; arch., S. D. Cohen, 176 Broadway.
- Brook Ave., bet. 3d Ave. and 161st St., 3 four-sty brick stores and flats; \$45,000; own. and bld., G. Pesciotta, 1166 East 169th St.; arch., W. C. Dickerson.
- Fifth Ave., cor. 116th St., five-sty store and flats, 25' x 85'; \$35,000; own., John J. Hickey, 83 East 110th St.; arch., Neville & Bagge.
- St. Louis, Mo.—Eleven two-sty flats, s s Fairfax St., bet. Pendleton and Whittier Sts.; \$15,000; own., A. N. Jacobs.
- Eight two-sty flats, n s 12th St., bet. Souland St. and Lafayette Ave.; and 4 two-sty flats, s s Souland St., bet. 12th and 13th Sts.; \$9,000; own., J. M. Cates.
- Two two-sty flats, n s Park St., bet. Mississippi and Armstrong Sts.; \$10,000; own., L. Schmidt.
- Syracuse, N. Y.—South Warren St., No. 616, four-sty brick apartment-house, 12 flats, 56' x 94'; \$25,000; own., Dr. Wm. N. Landon.
- FACTORIES.**
- Hartford, Conn.—Hicks St., four-sty brick building, flat roof; \$15,000; own., Jewell Belting Co.; arch., C. H. Cullen.
- HOUSES.**
- Baltimore, Md.—Eight two-sty brick dwells, n s Washington St., bet. Harford Road and Polk St.; own., J. Henry Fox.
- Twenty-four two-sty brick dwells, w s Durham St., bet. Townsend St. and North Ave.; own., Faulhaber & Kaiser.
- Twenty-three two-sty brick dwells, beg. cor. Townsend St. and Hopkins Ave.; own., R. Stumpf, 3 North Wolfe St.
- Ten three-sty brick dwells, e s Druid Hill Ave., bet. Gold and Bloom Sts.; own., Jos. H. Pentz, 630 West Saratoga St.
- Five two-sty brick dwells, s s Canton Ave., bet. Canton and Robinson Sts., and 11 two-sty brick dwells, e s Canton St., bet. Canton and Foster Aves.; own., Geo. C. Goldman, 1211 North Broadway.
- Boston, Mass.—Barrington St., cor. Barry St., Ward 20, two-sty frame dwell., 28' x 40', pitch roof, furnace; \$5,000; own., Michael Monahan; bld., David Campbell.
- Lonsdale St., nr. Adams St., Ward 20, two-sty frame dwell., 25' x 40', pitch roof, furnace; \$4,000; own. and bld., Augustine Judge.
- Cornell St., nr. Washington St., Ward 23, two-sty frame dwell., 22' x 28', pitch roof, furnace; \$2,500; own., E. T. Willis; bld., Willis Bros., Newburg St.
- Newburg St., nr. Brandon St., Ward 23, two-sty

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BUILDING INTELLIGENCE.

(Houses Continued.)

frame dwell., 25' x 38', pitch roof, furnace; \$3,000; own., Rachel T. Willey; bld., Wills Bros.
Dawson St., No. 26, Ward 16, three-st'y frame dwell., 22' x 46', flat roof; \$3,500; own., Mary E. Dennis; bld., Howard Bros., 412 Dorchester Ave.
Neposset Ave., nr. Sewell St., Ward 24, two-st'y frame dwell., 28' x 46', pitch roof, furnace; \$4,800; own. and bld., Cantello & Steves, 44 Howard Ave.
Rosseter St., nr. Bowdoin St., 2 two-st'y frame dwell., 28' x 40', pitch roofs, steam; \$9,000; own. and bld., Geo. A. and W. A. Long, 194 Washington St.
Dundee St., nr. Falmouth St., Ward 10, 3 four-st'y brick dwell., 20' x 40', flat roofs, stoves; \$22,000; own., Joseph Green, 88 Hammond St., Cambridge; bld., James J. Galvin.
Greenbriar St., nr. Bloomfield St., Ward 20, two-st'y frame dwell., 21' x 23' x 49', pitch roof, furnace; own., W. V. Tripp, 44 Washington St., Dorchester; arch., L. C. Greenleaf, Tremont Building.
Tower St., nr. Hyde Park Ave., Ward 23, two-st'y frame dwell., 25' x 48', pitch roof, furnace; \$4,300; own. and bld., J. L. Wetmore, 31 Wenham St., Jamaica Plain.
East St., nr. Dorchester Ave., Ward 20, 4 three-st'y frame dwell., 24' x 42', flat roofs, stoves; \$14,000; own. and bld., Walter Bros.
Millett St., nr. Harvard St., Ward 20, two-st'y frame dwell., 30' x 34', pitch roof, furnace; \$4,300; own. and bld., Holyer Olson, 28 School St.
Cohasset St., No. 40, Ward 23, two-st'y frame dwell., 21' x 32' x 35', pitch roof, furnace; \$1,000; own., Henry E. Davidson, 36 Cohasset St.; bld., Alex Rogers.
East Seventh St., No. 525, Ward 15, three-st'y frame dwell., 24' x 47', flat roof, stoves; \$4,500; own., Bessie M. Clark; bld., Henry S. Clark, 757 Washington St., Dorchester.
Pleasant St., cor. Thornley St., Ward 20, 2 two-st'y frame dwell., pitch roofs, furnaces; \$10,000; own., Charlotte A. Powell, 72 Mayfield St.; arch., Samuel Rantin & Son; not let.
Thetford Ave., nr. Norfolk St., Ward 24, two-st'y frame dwell., 28' x 48', pitch roof, furnace; \$4,000; own., Lydia M. Webber; bld., W. W. Sherman.
Pearl St., cor. Pleasant St., Ward 20, two-st'y frame dwell., 24' x 35' x 61', pitch roof, furnace; \$7,000; own., Emily F. Leman; bld., Burke Bros.; arch., Willard A. Frost, 120 Tremont St.
Glenbrook St., nr. Dewey St., Ward 16, three-st'y frame dwell., 25' x 42', flat roof, stoves; \$4,000; own. and bld., E. F. Hughes, 287 Blue Hill Ave.
Hillside St., nr. Calumet St., Ward 19, two-st'y frame dwell., 27' x 47', pitch roof, stoves; \$4,500; own., Walter C. Fritz; bld., N. A. Enwright, 76 Hillside St.
Dawson St., nr. Adams St., Ward 24, two-st'y frame dwell., 22' x 39', pitch roof, furnace; \$4,000; own. and bld., George Dawson.
Hewlett St., nr. South St., Ward 23, 2 three-st'y frame dwell., 22' x 41', flat roofs, stoves; \$9,000; own. and bld., Dawson Johnson, Roslindale.
Hartland St., nr. Saxton St., Ward 20, two-st'y frame dwell., 26' x 50', pitch roof, stoves; \$4,800; own. and bld., James F. Flaherty, et al., 103 Sydney St.
Sherwood St., No. 3, Ward 17, two-st'y frame dwell., 23' x 39', pitch roof; \$3,000; own., Edwin D. Dodge; bld., F. H. Brennan.
Cornell St., cor. Linden St., Ward 23, two-st'y frame dwell., 26' x 28', pitch roof, hot water; \$3,000; own., August Meyer; bld., John De Wit, 337 Cornell St.

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BUILDING INTELLIGENCE.

(Houses Continued.)

O St., cor. East 1st St., Ward 14, 2 three-st'y frame dwell., and stores, 23' x 57', flat roof, stoves; \$9,000; own. and bld., Wm. T. Eaton, 178 Devonshire St.
Falcon St., nr. Brooks St., Ward 1, three-st'y frame dwell., 23' x 54', flat roof, stoves; \$3,500; own. and bld., W. E. and A. N. Dingwell, 85 Euclid St., East Boston.
Hunter St., nr. Morton St., Ward 24, 2 two-st'y frame dwell., 23' x 30', pitch roofs, furnaces; \$7,000; own. and bld., Carl S. Nelson, 344 Norfolk St.
Englewood Ave., nr. Beacon St., Ward 25, two-and-one-half-st'y frame dwell., 40' x 40', pitch roof, hot water; \$10,000; own., Jeanette H. Rogers; bld., Edw. L. Rogers, Kinross Road.
Stanswood St., nr. Lorraine St., frame dwell., 28' x 52', pitch roof, furnace; \$5,500; own., Catherine L. McDermott, 330 Washington St., Dorchester; arch., Samuel Rantin & Son; not let.
East Eighth St., cor. Mercer St., Ward 15, 2 three-st'y frame dwell., and stores, flat roofs, stoves; \$9,000; own., Edward Meallivitz, 176 Eighth St.; bld., J. W. Priesing & Son.
Sunset St., nr. Parker Hill Ave., Ward 19, two-and-one-half-st'y frame dwell., 21' x 55', pitch roof, furnace; \$10,000; own., Florence O. Rand; bld., D. L. Rand, 17 Otis St.
Worcester, Mass. — Sturges St., two-st'y frame dwell.; own., E. Cross; con., F. J. Goff.
Kibby St., three-st'y frame dwell.; own., B. A. Lamont; arch., George and J. P. Kingston; con., F. J. Goff.
Uxbridge St., two-st'y frame dwell.; own. and con., P. Lord.
Walker Ave., three-st'y frame dwell.; own. and con., N. F. Tucker.
Maywood St., three-st'y frame dwell.; own., W. Downey; arch., A. J. Harrington; con., F. J. Yates.
Barbour St., three-st'y frame dwell.; own. and con., W. B. Howe.
West St., two-st'y frame dwell.; own., Thomas Gillett; arch., L. W. Briggs; con., F. Johnson.
Moreland Heights, two-st'y frame dwell.; own. and con., W. A. Brigham; arch., E. W. Shedd.
Park Ave., 2 three-st'y frame dwell.; own. and con., J. Miles & Son.
William St., two-st'y frame dwell.; own. and con., C. A. Vaughn.
Trowbridge St., two-st'y frame dwell.; own., N. S. Liscomb; arch., L. W. Briggs; con., A. N. Booth.
Albion St., one-st'y frame dwell.; own., V. Flood; day-work.
Winford Ave., two-st'y frame dwell.; own., C. E. Richardson; con., W. B. Richardson.
Fruit St., two-st'y frame dwell.; own. and con., L. N. Smith.
Berkshire St., two-st'y frame dwell.; own. and con., J. Clancey.
Everard St., two-and-one-half-st'y frame dwell.; own., Nils Nilson; con., Erickson & Anderson.



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THE "ALBO" DETACHABLE SEAT AND COVER.

It is recognized by experts, conversant with sanitary matters, that every fixture must be as near "all open" as it is possible to make it. With the "Albo" detachable seat we not only do away with the unnecessary and dirt absorbing woodwork at the back of closet going against wall, but also present a seat in every way a perfect sanitary success. The "Albo" seat allows of an "all open" space at back between closet and wall, thus giving free access around the bowl at all times. Another great advantage which the "Albo" seat possesses is, that it can be entirely detached from the earthenware by simply lifting it up, so that all surfaces of the seat and bowl can be kept perfectly sweet and clean.

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BUILDING INTELLIGENCE.

(Houses Continued.)

Arlington St., two-and-one-half-st'y frame dwell.; own. and con., Charles Garrity.
Richmond Ave., two-st'y frame dwell.; own., Chas. Warren; con., F. J. Yates.
Gardner St., 2 three-st'y frame dwell.; own. and con., P. Lord.
Walter Ave., three-st'y frame dwell.; own. and con., J. B. Tucker.
MERCANTILE BUILDINGS.
Everett, Mass. — Broadway, two-st'y frame building for stores, offices and hall, 50' x 50', flat roof; \$15,000; own., Alonzo H. Evans, 684 Broadway; bld., Fessenden & Libby, Charlestown; arch., Geo. Moffette, Boston.
Salem, Mass. — Church St., two-st'y brick building for offices and hall, 80' x 80', pitch roof, steam; \$18,000; own., Wheatland, Allen & Rogers; bld., S. R. Dexter; arch., Ernest A. Machado, Carpenter St.
STABLES.
Baltimore, Md. — Two-st'y brick stable, 18' x 32', rear 2120 Maryland Ave.; own., Charles E. McAllister, 832 North Fulton Ave.
**Boston, Mass. — Lamartine St., rear, No. 192, Ward 22, two-st'y frame stable, 28' x 42', flat roof, stoves; \$2,000; own., Paul Abell; arch., Jacob Lulppold, Mozart St.; not let.
Stacey St., nr. Main St., Ward 5, three-st'y brick stable, 45' x 65', flat roof; \$10,000; own., J. H. Morrill, 12 South Market St.; not let.
**Chelsea, Mass. — Elenor St., one-st'y frame stable, 22' x 22', pitch roof; \$400; own., George T. Oakes, 62 Elenor St.
**Everett, Mass. — Irving St., one-and-one-half-st'y frame stable; \$200; own., Hadley & Noyes, Broadway and Chelsea Sts.
Adams Ave., one-st'y frame stable; \$200; own., Victor Olsen; bld., George H. Barker.
**Lynn, Mass. — Eastern Ave., one-and-one-half-st'y frame stable, 23' x 40', pitch roof; \$400; own., E. P. Hall, 482 Eastern Ave.; bld., Herbert C. Cole.
**Newton, Mass. — Bellevue St., one-and-one-half-st'y frame stable, 20' x 40', stoves; \$1,800; own., G. A. Scherer, on premises; bld., James McPhee.
**New York, N. Y. — Seventy-third St., Nos. 159-163, 2 two-st'y brick stables, flat roofs; \$24,000; own., Wm. H. Tallier, 99 Franklin St.; arch., Thos. Roe.
Watts St., No. 4, five-st'y brick stable and storage, 20' 6" x 70' 3"; \$12,000; own. and bld., Joel E. Hynes; arch., Andrew Spence, 7 East 125th St.
Eleventh Ave., e s. 27th to 28th Sts., three-st'y brick and stone stable, 96' x 175'; own. and arch., Pennsylvania R. R. Co., Philadelphia.
**North Adams, Mass. — Three-st'y brick livery stable; \$17,000; own., J. H. Flag; bld., Porter & Hannum, 224 Main St.
**Salem, Mass. — Liberty Hill and Appleton St., one-and-one-half-st'y frame stable; \$500; own., Abbie Wallace, Swampscott; bld., A. Rose, Swampscott.
Gardner St., rear, No. 10, one-and-one-half-st'y frame stable; \$500; own., D. A. Sutherland, 22 Pleasant St.
**Watertown, Mass. — One-and-one-half-st'y frame stable, 32' x 48', with coachman's apartments; own., W. H. and B. E. Potter; arch., Arthur F. Gray, Boston.
**Worcester, Mass. — Moreland Heights, one-and-one-half-st'y frame stable; own., W. A. Brigham; arch., E. W. Shedd; day-work.
STORES.
**Brooklyn, N. Y. — Nostrand Ave., s w cor. Fennimore St., 2 three-st'y frame stores and dwells, 20' x 55', tin roofs; \$7,400; own., Martin D. Doscher, on premises; arch., Charles Infanger, 2590 Atlantic Ave.; bld., Henry Meyer, 270 Arlington Ave.
Third Ave., w s. 50' 20" s 40th St., 2 four-st'y brick**********************

Iron-Work.

JACKSON ARCHITECTURAL IRON WORKS,

ESTABLISHED 1840.

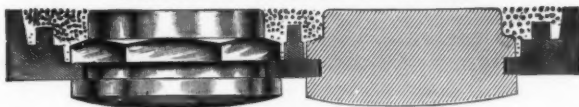
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BUILDING INTELLIGENCE.

(Stores Continued.)

stores and dwell., 25' x 62', tin roofs; \$12,000; own., Edward Hallam, 549 Tenth St.; arch., Robert Dix, 213 Montague St.

Chicago, Ill. — Forbes Estate, four-st'y brick store and lodge-hall, 420 West 63d St.; \$18,000.

Lewis Klewen, three-st'y brick store and flats, 1820 North Hoyne Ave.; \$7,000.

John Wells, three-st'y brick store and flats, 1623 North Clark St.; \$8,000.

Detroit, Mich. — A. C. Varney & Co., frame store and dwell., 164 Seymour Ave.; \$6,500.

New York, N. Y. — Thirty-seventh St., cor. Broadway, two-st'y brick store and office-building, 104' x 190'; \$40,000; own., Mrs. Mary Ann Fitzgerald, 1 Lehighfield, Conn.; arch., Hoppin & Koen, 160 Fifth Ave.

West Sixty-eighth St., No. 61, two-st'y brick store and offices, 30' x 100'; \$28,500; own. and bid., Frank Oldons, 85th St. and St. Nicholas Ave.; arch., John C. Burns.

St. Louis, Mo. — One-st'y store, n s Market St., bet. 15th and 16th Sts.; \$6,300; own., Mrs. Bliss.

Wheeling, W. Va. — Main St., four-st'y brick store-building; \$25,000; own., Vance Shoe Co.; arch., E. B. Franzheim; not let.

TENEMENT-HOUSES.

Boston, Mass. — Centre St., cor. Stony Brook Pl., Ward 18, four-st'y brick store and flats, 33' x 45', flat roof, stores; \$14,000; own. and bid., P. H. Brennan, 176 Norfolk Ave.

Lowell, Mass. — Chelmsford and Liberty Sts., three-st'y frame store and tenement, 60' x 60', flat roof, furnace; \$5,000; own., Mrs. H. M. Wright, 28 Hutchinson St.; arch., A. M. Burtt.

New York, N. Y. — Elton and Third Aves., five-st'y brick tenement, 25' x 30'; \$20,000; own., Harry C. Hart, 78 Park Row; arch., Charles Stegmayer, 306 East 82d St.

WAREHOUSES.

Baltimore, Md. — Four six-st'y brick warehouses, one, 64' x 185', one, 64' x 137', and two, 64' x 201', beg. s w cor. Fell St. and Henderson Wharf; own., Baltimore & Ohio Railroad Company.

Three-st'y brick warehouse, 15' x 71', 328 North Howard St.; own., Mrs. F. Schuff.

New York, N. Y. — East Houston St., No. 312, six-st'y brick store and loft, 24' x 90'; \$20,000; own., Moses Zimmerman, 318 East Houston St.; arch., Julius Kastner.

MISCELLANEOUS.

Chicago, Ill. — City of Chicago, two-st'y brick shop and engine-room, 1053-69 Ashland Ave.; \$24,000.

New Haven, Conn. — River St., six-st'y brick store and steel brewery, 60' x 100'; \$50,000; own., Quinnipiac Brewing Co.; arch., Otto C. Wolf, 1345 Arch St., Philadelphia; con., George Bohn.

St. Louis, Mo. — Five-st'y stock house, e s 18th St., bet. Cass and O'Fallon Sts.; \$6,300; own., St. L. Brew. Co.

Washington, D. C. — Twelfth and H Sts., N. E., one-st'y brick market-house, 50' x 95', iron roof; \$10,000; own. and bid., Arthur Cowell and Z. B. Babbitt.

COMPETITIONS.

FOR Programmes of Competitions of Society of Beaux-Arts Architects for 1896-97, see American Architect for October 17 and 24, 1896. t.f.

HIGH SCHOOL BUILDING.

[At Newark, N. J.] Competitive designs for this building to be handed in February 6, 1897. Mixed competition, to be conducted and judged by Prof. A. D. F. Hamlin, of Columbia University. For particulars and instructions apply to ROBERT D. ARGUE, Secretary Board of Education, Newark, N. J. 1097

PROPOSALS.

MUSEUM AND LIBRARY.

[At Cairo, Egypt.]

MINISTRY OF PUBLIC WORKS.

ADJUDICATION FOR THE CONSTRUCTION OF THE ARABIC MUSEUM AND KHEDIVIAL LIBRARY IN CAIRO.

The adjudication for the construction of the Arabic

PROPOSALS.

Museum and Khedivial Library in Cairo which was originally fixed for the 24 May, 1896, and afterwards postponed to a later date, will definitely take place on the 1st February, 1897, the former specifications and documents holding good.

Tenders for this work will be received at the offices of the "Service Administratif" Ministry of Public Works, Cairo, up to 12 noon, of the above date.

Persons wishing to tender for this work can consult the specifications and the conditions of the adjudication on all days, except Fridays and general holidays, from 8 A. M. to 1 P. M., at the offices of the "Service Administratif."

Tenders received at the Ministry later than the date mentioned above, as well as those that are not in conformity with the form prescribed by the specifications, will be rejected.

Each tender must be accompanied by a provisional security deposit of L. E. 300, which will be kept in the Egyptian Government Treasury until a decision has been arrived at with regard to the adjudication. These deposits will then be returned to the persons whose tenders are not accepted, while the party to whom the work is awarded, will on the signature of the contract, increase the above deposit up to the amount of the permanent deposit fixed by the specifications.

The provisional deposit shall be paid either in cash or in Egyptian bonds calculated at 10% below their current price. No interest will be paid on cash deposits, but the depositing party has a right to the coupons due, when the deposit is in Egyptian bonds. The Ministry of Public Works reserves to itself the right of not accepting any tender whatever, and can accept any tender, though it may not be the lowest made. 1099

* The sterling pound is worth L. E. 975, and the French piece of 20 francs L. E. 0. 770.

IRON GALLERIES.

[At Washington, D. C.]

Proposals are wanted until December 30, for iron galleries in two or more halls in the United States National Museum. Address S. P. LANGLEY, Secretary Smithsonian Institution, as above. 1096

GARBAGE DISPOSAL PLANT.

[At Milwaukee, Wis.]

Proposals are wanted until January 15, for garbage disposal plant, capable of disposing of at least 150 tons of garbage daily. Address COMMISSIONERS OF PUBLIC WORKS, as above. 1098

Treasury Department, Office Supervising Architect, Washington, D. C., December 19, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 15th day of January, 1897, and opened immediately thereafter, for furnishing all the labor and materials and erecting complete one electric passenger-elevator in the United States Post-office building at Fort Worth, Tex., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Custodian at Fort Worth, Tex. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1097

HEATING AND VENTILATING.

[At Providence, R. I.]

Proposals are wanted until December 28, for heating, ventilating and plumbing, also separate proposals for gas-piping, for the East Side High School, corner of Hope St. and Alumni Ave. Plans, etc., at office of Martin & Hall, Architects, 562 Industrial Trust Co. Building. Address BURMAH E. PEIKINS, Chairman of Committee on City Property, City-hall, as above. 1096

HOSPITAL.

[At Newark, N. J.]

Proposals are wanted until January 6, for hospital on block bounded by Fairmount Ave., Camden, Bank and Cabinet Sts., including heating and ventilating. Address L. J. WENDELL, City Clerk, as above. 1096

HOSPITAL.

[At Iowa City, Ia.]

Proposals are wanted until January 14, for the

PHŒNIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

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[At Decatur, Ga.]

Proposals are wanted until January 25, for court-house for De Kalb County. Address T. J. FLAKE, Chairman Board of Commissioners of Roads and Revenue, as above. 1097

Treasury Department, Office Supervising Architect, Washington, D. C., December 14, 1896. Sealed proposals will be received at this office until 2 o'clock P. M. on the 7th day of January, 1897, and opened immediately thereafter, for all the labor and materials and erecting complete either a hydraulic or electric passenger-elevator, also new steam-bolter, etc., for the United States Court-house and Post-office building at Topeka, Kan., in accordance with the drawing and specification, copies of which may be had at this office or the office of the Custodian at Topeka, Kan. Each bid must be accompanied by a certified check for a sum not less than 2% of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. WM. MARTIN AIKEN, Supervising Architect. 1096

ELECTRIC-WIRING, ETC.

[At Massillon, O.]

Proposals are wanted until January 6, for electric-wiring, etc., at Massillon State Hospital. Address A. B. RICHARDSON, Secretary, as above. 1096

TERRA-COTTA.

[At Milwaukee, Wis.]

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THE demands made upon our space by matters of current interest, of which the precise character cannot be predetermined, make it both undesirable and dangerous to announce a programme for the text-matter which can have any of the "drawing" qualities of the prospectus of a popular magazine.

There must be finished, of course, the serial papers on "The United States Capitol," by Mr. Glenn Brown; on "Architectural Statics," by Mr. O. F. Semsch, and further portions of the papers on "Protestant Churches."

In the way of new matter our subscribers may expect the following, amongst other papers:—

"A Summer School Abroad." By PROF. E. B. HOMER, of the Massachusetts Institute of Technology: being an account of the trip made under his auspices by a score of students through the southern counties of England and the Valley of the Loire. Illustrated by numerous sketches and photographic reproductions.

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We question whether the necessity of recording matters of current interest will allow us to make use of even all of these few papers, or of others which are in preparation and might be mentioned.

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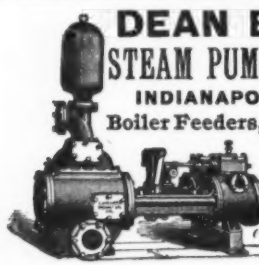
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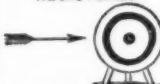
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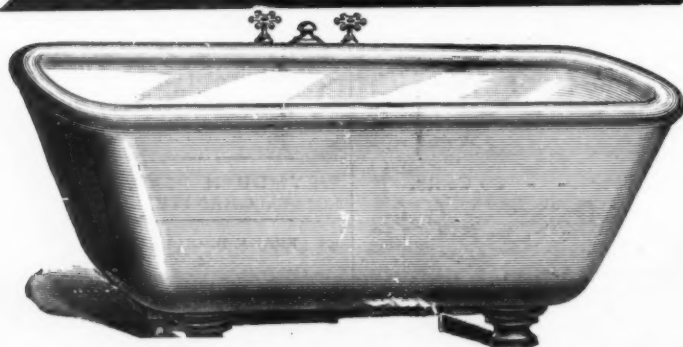
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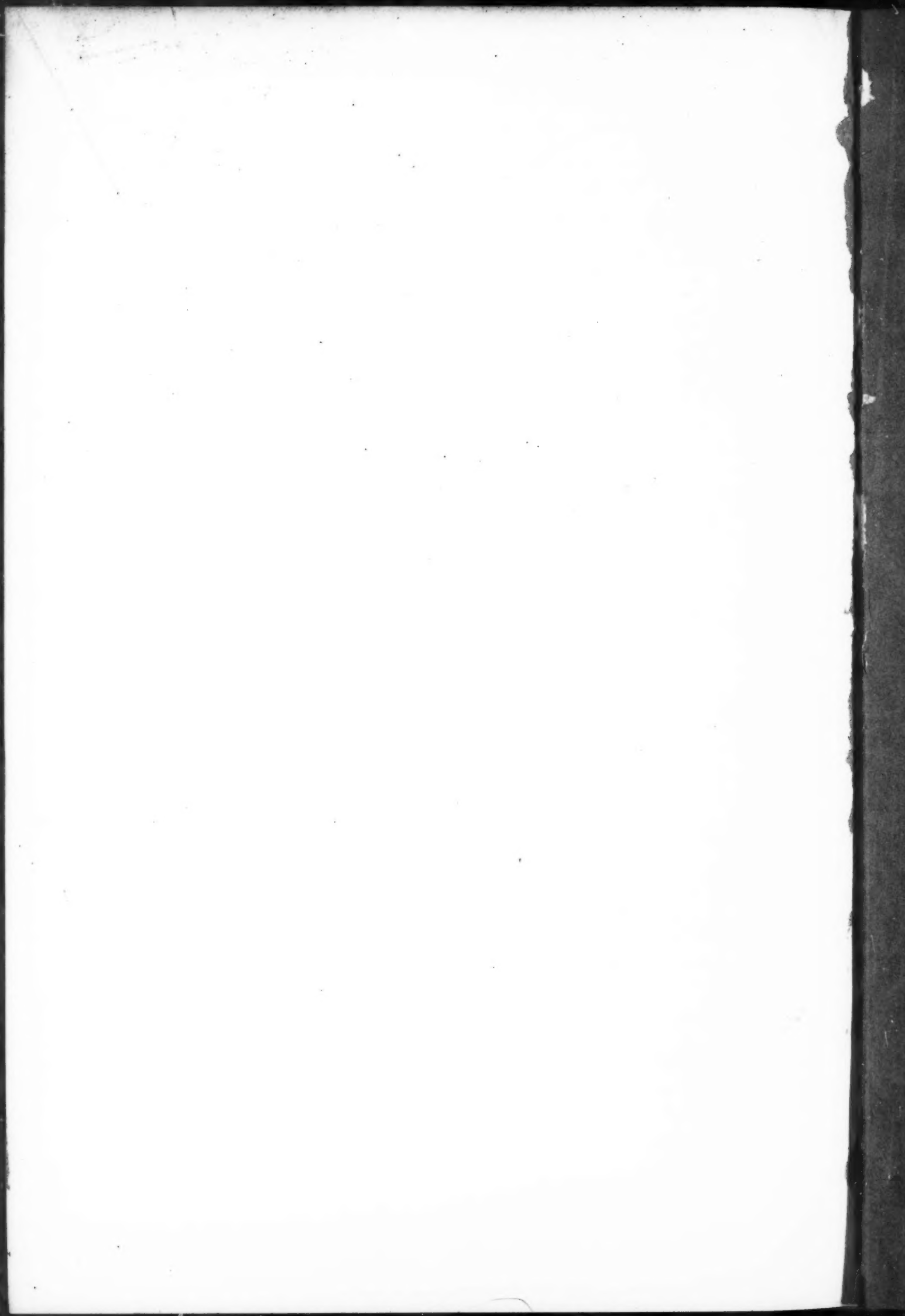
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