

# THE AMERICAN ARCHITECT AND BUILDING NEWS.

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In closing the first volume of the *American Architect and Building News*, we wish to make cordial acknowledgment of the reception and help that has been given us. The press has met our appearance with a courteous welcome which has given us great encouragement; and the hearty interest which the architectural profession has shown in our success has been a most efficient support. It is a matter of time to give such a paper as ours its full scope; to get all its machinery into efficiency; to form all the connections, and secure all the co-operation, that are necessary to give it the completeness that we desire. The fact that it is an undertaking of a kind new in our community, has made it a more difficult and a slower task to fully organize and shape it. There are still many things which we wish to do in order to increase its range and usefulness; and for these we invite the co-operation of all who are interested in our paper or in the subjects of which it treats. We wish to give as much as possible of the important building-news of the country, and shall be thankful to any one who will help us with items of interest. A few lines written, or a newspaper slip, will often bring things to our notice which would otherwise escape us; and we like to have our communications as widely extended as possible. Our paper may also be useful as a means of inter-communication among architects, and those who work with them. We should be glad to have questions and problems which occur in architectural practice or in the building-trades stated in our columns, in the hope that readers who are wiser than we may be tempted to answer them. Our subscribers will be benefited by accounts of devices, appliances, or materials that any of our friends have found useful in their work, or think important, or by any records of unusual or significant experience in practice. We appeal as well to workers in decorative arts, and to constructors and mechanics, as to architects, for the results of their study and experience, or for the statement of facts or problems that interest them.

To all who favor us with contributions we would suggest that as our space is not great, and we wish to make our paper as comprehensive as possible, it is important to study conscientiously. We would remind them of the rule that copy for the printer should be written on only one side of each leaf, and of the necessity of writing proper names, which it is often not easy to verify, and technical terms, with the greatest distinctness. We must remind our correspondents also that it is our settled principle to banish personalities from our paper. We shall expect to make and to receive plain criticism of works, principles, and opinions, and to open our columns widely to discussion of the questions which are appropriate to them. We shall not allow to ourselves, or expect from our contributors, expressions of personal annoyance, or imputations of bad faith or unworthy motives

in controversy, but shall assume that where opinions are in dispute they are to be settled or discussed upon their own merits, and not upon those of their advocates. Drawings sent for illustration should be in pen and ink, clearly drawn; the lines should be neither coarse nor crowded, for either of these characteristics is likely to be exaggerated in the reproduction. We find it necessary to arrange our illustrations some time in advance of publication, and therefore those who favor us with them should not be surprised if they do not appear immediately: it is desirable to keep the drawings till they are published, so that if the first plate should prove faulty another may be prepared. We make special request that those who send designs for buildings will not fail to furnish plans, and when possible sections, with their exteriors. The lack of any explanation of the interior arrangement of a design detracts greatly from its interest, and often indeed subjects it to misinterpretation by leaving its motive unexplained. We especially invite drawings of architectural or constructive detail, and of decorative work, of which we hope to provide in future a greater proportion than we have been able to thus far.

ONE decisive official action of which we have heard as a result of the Brooklyn disaster is that of the inspector of buildings in Boston, who after examining the theatres in that city has ordered such precautions to be taken at once as he thought practicable. All the curtain-openings are to be furnished with curtains of wire netting, and outer curtains of cloth made incombustible as far as may be; and all wooden proscenium walls are to be covered next the stage with fire-proof sheathing. Sprinklers are to be fixed over the proscenium arches and over the stage; the theatres are required to have a high-service water-supply, to light their gas by electricity, and to have a telegraphic connection with the nearest fire-engine station. These for general provisions: to them we should have liked to see added the requirement, which may really have been understood, that the wire curtain should be let down at the close of every performance, and that the lofts above the stage and auditorium should be cut off from each other. Special requisitions have been made which will demand among the various theatres six fire-escapes from the upper galleries; four new stairways, the re-opening of one old one, and the enlarging of seven others; four new passageways; one wooden ceiling and two floors protected against fire; and the alteration of the parquet of one theatre. This accomplished, attention will be turned to other places of public assembly. The amelioration of the theatres and halls that are already built being secured, it is to be hoped that pains will be taken to control efficiently the plans and construction of those that may be built hereafter, either by municipal enactments, or, what is perhaps better, by general State building-laws, of which the example has been set in Ohio.

A CATALOGUE of the Illinois Industrial University which we have received gives an attractive showing of the course of instruction that is laid out there for students of architecture and kindred pursuits. The university "founded by the State and endowed by the nation," as its catalogue says, is in some respects unusually well provided, having a good collection of casts and models of constructive architectural and decorative work, and a series of workshops for carpenter's and machine work. Special pains seem to be taken to unite practical knowledge of mechanical work, as far as it may be gained in a school course, with the technical instruction of a higher kind. There are something like four hundred students, divided among various scientific courses, and technical courses in various branches of engineering and in



architecture. The architectural students last year were fifteen, including one woman. We notice a special course of a single year, called a builder's course, which includes drawing, constructive and architectural, studies in wood construction and stair-building, in estimating, and in architectural designing. This last strikes us as being under the circumstances an addition of questionable usefulness, considering that it is found in only one term of a one-year's course. The architectural course is very comprehensive and exceedingly well arranged. It covers four years of study, and is wisely guarded by allowing no student more than three studies at once. One feels some doubt, however, whether even four years can be sufficient for the amount of work that is laid out. It is of course a labor of considerable time to bring such a school up to full efficiency; but if it is found practicable to make it as effective in its working as it is able in its planning, it will be a valuable means of professional education. One point in it that we notice with pleasure is the prominence given to exercises in modelling, which seem to us of great importance in securing a really exact and useful knowledge of ornamental forms. On the other hand, the space allotted to architectural designing seems quite insufficient: it is only introduced in two terms of the last year of the course. Indeed, we may say that the technical element seems on the whole to predominate a little too much over the artistic. We are glad to believe that the buildings of the university, which are rudely illustrated in the catalogue, are not representative of the design that is inculcated in its instruction. And we may repeat the hope once before expressed, that now that we have four architectural schools well established in the country, which are enough for our needs, whatever effort is made for architectural education may be given to making these as perfect as possible, rather than to adding to their number.

THE Boston Chapter of the American Institute of Architects has taken a step in a good direction by arranging for a series of prizes to be given for works of original design, to various classes of what in the slang of the day it is customary to call art-workmen. The first prize offered is one of fifty dollars, to modellers and ornamental sculptors, for the best plaster model or wood-carving of a frieze ornament. The models are to be submitted to the Chapter for their award at their February meeting, and will afterwards be exhibited in the hall of the Boston Museum of Fine Arts. The object is, of course, to encourage independent skill in design among the workmen of the various decorative arts. It is desirable not only for the sake of stimulating design and artistic feeling among a class of men the success of whose work depends upon it, but also as an earnest of the interest which architects should take, and do take, in the progress of those who work with and for them. The success of architecture and the decorative arts must depend now, as it has in the best days of art, upon unity and common interest among the men of all vocations who are concerned in them,—architects, sculptors, carvers, decorators, metal-workers, and mechanics who work with them. The prize, if it is found to arouse sufficient interest and effort, will be followed by others offered to workmen in different branches of decorative art; and if the movement proves to forward a community of interest and mutual confidence between architects and workmen, it will perhaps be even more helpful in this way than as a mere premium for excellence.

We have already noticed the late competition for the Leeds Public Offices, which seemed to promise to be exceptionally well conducted and satisfactory, because the decision was to be intrusted to a professional referee chosen by the competitors themselves. The referee selected by the competitors was unable to serve; but the substitute chosen, Mr. Cock-

erell, was an unexceptionable one. Unluckily it too often happens that an experiment which promises to introduce a valuable reform is brought to nought and discredited by the way in which it is carried on. It would probably have puzzled any of our readers to guess what device the Leeds committee would adopt to make their employment of a referee as nearly nugatory as possible. What they did was to select from the twenty-four designs sent in eight, which they laid before Mr. Cockerell for his adjudication, keeping the rest out of his way. The obvious reason was a determination to prevent the architect from selecting any design which the committee did not like; and it amounted to a confession that after all they had more confidence in their own judgment than in his. There is, as the *Architect* says, "something inexplicable in the committee's competency for the task of selecting the eight worthiest designs of the entire twenty-four, yet shrinking from that of deciding which were the best three designs of the selected eight." They had however promised that the referee should select three plans for the three prizes; and from this promise they could not go back. The utmost control they could exercise over his choice was in limiting it to as small a range as they could. Mr. Cockerell expressed in a mild way "some regret that the instruction precluded his examining the whole of the designs sent in, as the considerable distance between the design which he had placed first and the others led him to surmise that a closer approximation of merit might possibly have been found." In other words, Mr. Cockerell did not at all believe that the committee had given him the best eight designs to select from. We cannot help wondering that under the circumstances he did not altogether refuse to act.

THE committee appear to have been caught, as committees are apt to be, by the charms of the elaborate perspective drawings that were set before them, at least if we may judge by the somewhat detailed criticism of the designs which appears in the *Architect*. We notice that except the design to which the first prize was awarded, not one of those which the *Architect* selects for special commendation is to be found among the eight chosen by the committee; nor has M. Cockerell, on the other hand, much to say for any of the eight except the first: it seems therefore not unlikely that the author of this might have failed of his place among the eligible eight if the merits of his design had not been seconded by the special attractiveness of his drawings. A notable characteristic of the competition was that most of the designs were classic, and only one of them Gothic. This is due in part, no doubt, to the proximity of the new Town Hall, which is of classic descent; but it also is symptomatic of the weakening of the Gothic revival. A short time ago such a thing could not have happened in an English competition. The design which Mr. Cockerell recommends for execution—by Mr. Corson—is thus described in the *Architect*: "The main front consists of an arcaded principal floor on a low rusticated podium (pierced with small basement windows), and surmounted with a tall attic crowned with a parapet, whose piers are charged with vases, moulded balusters being introduced at the flanking pavilions. The principal floor windows are placed within a Corinthian order, disposed as a projecting centre, containing a decastyle portico or porch *in antis*, and, with the interposition of a retreating wing, a projecting tetrastyle colonnade *in antis* (double antæ) at each flanking pavilion."

#### FIRE-PROOF CONSTRUCTION IN THEATRES.

We spoke in our last number of some of the precautions which are proposed for staying or extinguishing fires in theatres. We have already suggested what seemed to us important points in planning the communications and outlets for the security of audiences: it now remains to say a word

concerning the method of construction that may be or ought to be adopted for the same end.

The place where fires in a theatre are most likely to begin is the stage. Hence it is in regard to fires on the stage that the chief precautions are called for, though since fires in other parts of the building are still likely to occur, they must not be neglected in the provision. The first safeguard is a solid wall of masonry between the stage and auditorium. Without this all other precautions are nugatory: a fire fairly in possession of the stage will burn its way into the auditorium almost in an instant. The wall should absolutely separate the two portions of the building except for the proscenium openings. It is not enough that it should rise above the arch; but it should close the loft above the stage, and be carried above the roof in a fire-parapet. It is commonly required wherever strict building-laws prevail; and in France at least, only two openings are allowed in it besides the curtain-openings,—one below the stage, for the entrance of the musicians into the orchestra; and one above the arch, to allow the needful communication with the garret over the auditorium, which last must be kept closed by an iron door. Nevertheless, in the new opera-house at Paris, which is built of thoroughly incombustible material, there are doors of communication on the level of the first tier. If such doors are allowed they should be of iron, and should open on corridors of some length, say the depth of the stage-boxes, vaulted in brick, and containing nothing combustible. To give due effect to the wall, the stage-boxes should themselves be enclosed in brick walls, and their fronts as well as the soffit of the proscenium arch should be furred in brick or iron, and finished only in plaster. Against the flanks of this wall on each side and behind the stage-boxes, there should be ample staircases leading directly to outer doors at their feet, to serve in cases where fire occurs in the front of the theatre or away from the stage; and it ought not to be lawful to build a theatre on a site which does not admit of this. Even when the fire occurred upon the stage, if these stairs were built of iron and in fire-proof wells, as they ought to be, it would be a long time before they would become impassable.

The principle of subdivision by fire-proof walls, which is the recognized principle of security in all constructions, ought to be carried further by making the encircling walls of the auditorium and of the box corridors of brick; and also by enclosing the stairways in brick wells, except the grand stairway at the back of the auditorium, when there is one, which from its position, and because of its office as the principal ornamental feature of the interior, it is desirable to have displayed. In this case, however, it ought to be of iron or otherwise fire-proof. The fire-proofing of the other stairs need not be a very expensive matter, and ought to be insisted on wherever a large audience is to be provided for. In like manner it should be seen to that the dressing-rooms provided for the actors are not the combustible boxes that they usually are. Here is a point where the temptation to economize is very great; and it is common to make these dressing-rooms, of which there must be many, a series of slightly built pigeon-holes piled high on the sides of the stage, and communicating only with the slight wooden galleries from which the side scenery and flies are manipulated. From this it too often happens that some of the actors are cut off in their rooms, and burned before they can make their way out. The rooms ought to be separated from the stage by a good brick wall; and since they are small and closely compacted, very slight partitions of brick between them, or even between successive pairs or threes, will be sufficient, and will not add greatly to the expense of the theatre. Where it is practicable of course they should have their doors and corridors away from the stage, but this it is sometimes difficult to arrange; and when they open on the stage galleries, these should be framed of iron and of con-

siderable width, say five or six feet. The stairs leading to them have even more need to be protected and fire-proofed than those of the auditorium, since they are more exposed.

Since the great danger is of fire extending to the auditorium from the stage, the chief attention has been directed to the communication between the two; and we will recur to it again for a moment. Not only is there every opportunity for fire to spread through the curtain-opening and commonly through or over the proscenium wall, but there is every inducement for it. If any ventilation is provided for the house, it is through the ceiling of the auditorium. The air in the auditorium is warmed, and that on the stage is usually not so. Whoever has occupied orchestra-seats at winter performances on cold nights is likely to have felt the draught of cold air from the stage; and most people can remember seeing the breath of the actors in the frosty air. When fire takes among the scenery, the first effect is likely to be that the current of air carries smoke and flame out through the arch into the auditorium and toward the openings in the centre of its roof. The audience is endangered and terrified; a strong draught once established, the proscenium wall, the roof and the galleries, take fire if they can; and, doors being opened below which increase the draught, a very few minutes are enough for the destruction of an ordinary theatre, and perhaps its audience. It is to meet this danger that the metallic curtains are insisted on,—sheet iron, or, as is now proposed, wire gauze with a woollen curtain in front of it to prevent the rush of smoke into the auditorium.

Another preventive is to provide a direct escape for the flames above the stage by a ventilator or by a scuttle, or a dome divided in halves, that may be opened when there is fire. An ingenious suggestion is that of placing a skylight of thin glass in a wooden sash, over the stage, where it would be immediately broken by the heat of the flames, and give vent for them, establishing an upward draught away from the curtain and out from the auditorium. Such a skylight might expose the theatre to risk from the burning of adjoining buildings; and to meet this risk it has been proposed to cover it with a metallic cowl, which would defend it from sparks and brands, but leave a vent for flame and smoke. How the converse danger of setting fire to the surrounding buildings by the flames from the skylight is to be guarded against, is a different question.

But these precautions are at best of uncertain efficacy, and in no wise take the place of the leading defence, which is found in having every thing that adjoins the proscenium in front of incombustible material. Not only the dividing wall and proscenium arch should be so, and the stage-boxes, as we have said, but the galleries, or at least the ends of them next the curtain and for some little distance from it, and the ceiling above. The galleries may be framed in iron, and finished in plaster; and the ceiling of the auditorium may be of plaster in iron framing, or entirely of metal. Perhaps the metallic bowl which covers the *salle* of the new French opera-house, and is hung from the roof, is the safest thing that has yet been devised. Here is a legitimate opening for the workers of galvanized iron and other sheet metal, and one which we should think the manufacturers might make haste to occupy. Of American theatres, the best prepared in these respects that we know of is the Boston Theatre. Not only is there a solid stage wall of brick, and the walls of the stage-boxes of the same, but the proscenium arch and the fronts of the boxes are of plaster upon iron lathing, and the half of the ceiling next the stage of the same, while the fronts of the galleries are filled in solidly with plaster, to prevent the woodwork taking fire. One dangerous means of spreading a fire is the floor of the stage itself. This is full of trap-doors, and must be of wood, so that the carpenters may at any time make new traps or other openings in it wherever they please. The space under it is constantly in use during



the performances, and is full of a great variety of combustible material. It is therefore important that it shall be cut off as completely as possible, by carrying up the stage wall under it close against the floor-boarding; and in this wall there should be only one opening, — that through which the musicians get to their places in the orchestra. The part of the stage in front of the curtain needs no traps or openings, except one for the prompter's box, and may therefore very well be fire-proof. In the Boston Theatre this part of the floor is vaulted in brick, leaving no wood by which fire can be communicated, but one thickness of floor-boards resting on the masonry. Iron staircases, and iron doors of communication between the different sections of the house, will naturally suggest themselves, and are things not to be neglected; though there is great likelihood that the iron doors will be found either shut when they should be open, or open when they should be shut. A fire-proof floor to the auditorium is a thing to be expected in a thoroughly well built theatre; and when the space below it is to be used, — which should not be allowed, — it is an essential precaution.

For the improvement of existing theatres we shall have to be content, probably, with a small portion of the provisions we have suggested, or with such makeshift substitutes as can be devised for those which it is impracticable to secure. But for new theatres it is essential that the plans and construction be subjected to a rigid oversight, and that at least the chief means of security that we have alluded to in this and previous articles be insisted on, — an unobstructed exterior; numerous outlets with doors swinging outward; communications so arranged as to subdivide the audience, and separate staircases increasing in number instead of diminishing for those in the upper parts of the house, all enclosed in brick wells, and at least those to upper galleries fire-proofed in addition; subdivision of the building by brick walls, and especially by a solid wall from the cellar, and above the roof, between stage and auditorium; proscenium and stage-boxes, and gallery fronts, and ceiling of auditorium, all of incombustible material; to which may be added the palliatives of hose, sprinklers, and iron curtains. These are things that will not take care of themselves, and theatre-goers, as we have said, cannot be expected to protect themselves; there is no security for them but in stringent laws stringently enforced.

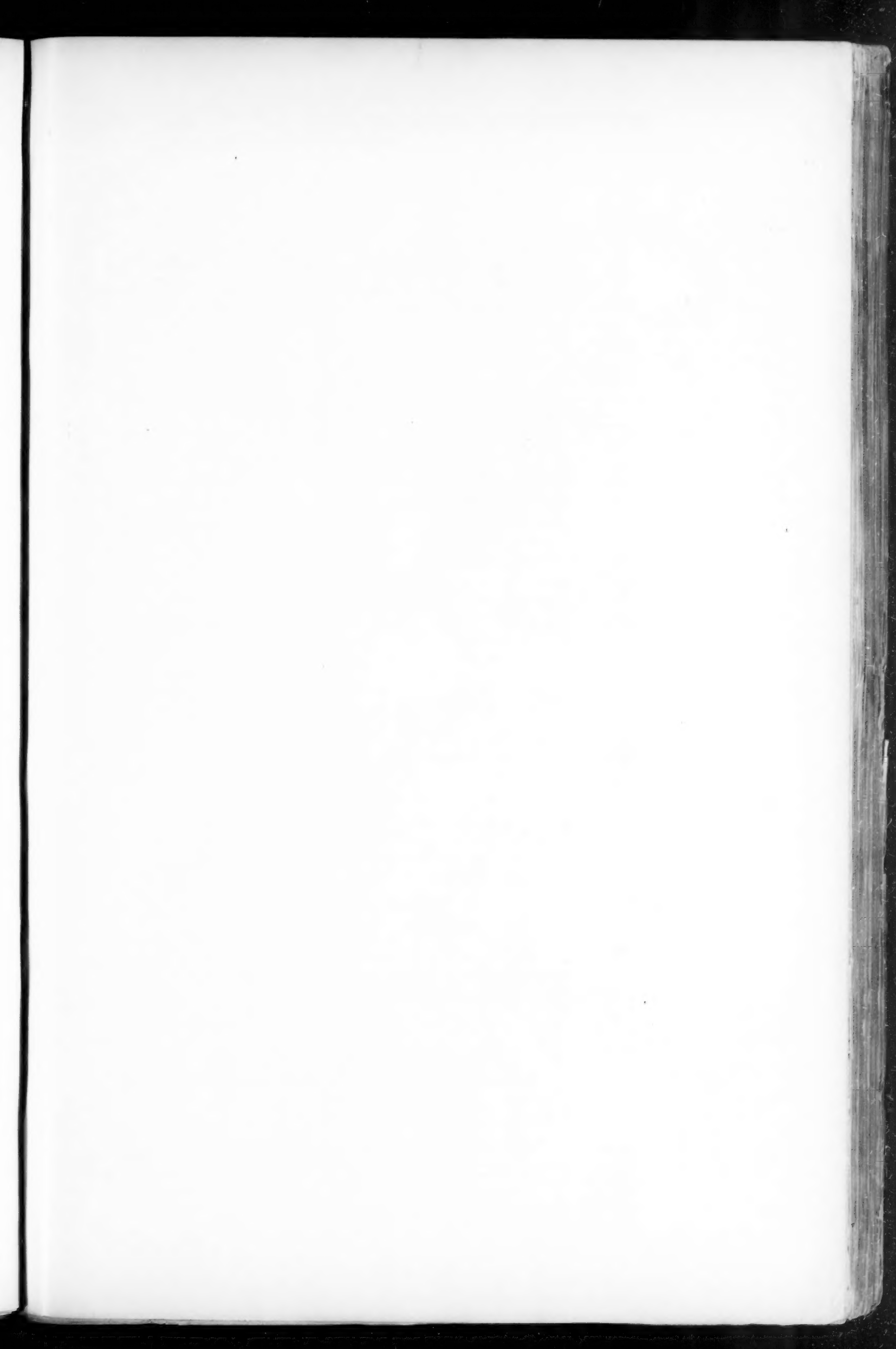
#### THE MANUFACTURE OF TERRA-COTTA IN CHICAGO.

THE manufacture of architectural terra-cotta may safely be considered the most backward of all the arts applied to building in America. This may appear strange considering the enterprise that has been displayed in other directions. But there are good reasons for it. One is that our wealth of natural building-stones, and their great variety, have enabled us to produce in a rigid material and without great cost — for everywhere easy-working stone of some kind can be procured at hand or cheaply transported — those forms which others have been obliged to create in a plastic substance. The German cities in modern times have been foremost in producing terra-cotta, while in extent of production England stands next. In Germany terra-cotta has for a long time been in general use for a great variety of purposes. In buildings it is used as a substitute for stone, and generally employed where the houses are of rough brick stuccoed. The effect is an imitation of stone throughout, and as such the use cannot be considered legitimate. In England, on the contrary, modern terra-cotta has found a legitimate use; and its employment in accordance with its own functions has given it an art value which had not been attained since the days when it was so successfully used in the old Italian cities. The want of a great variety of building-stones has been the cause of its employment in both cases.

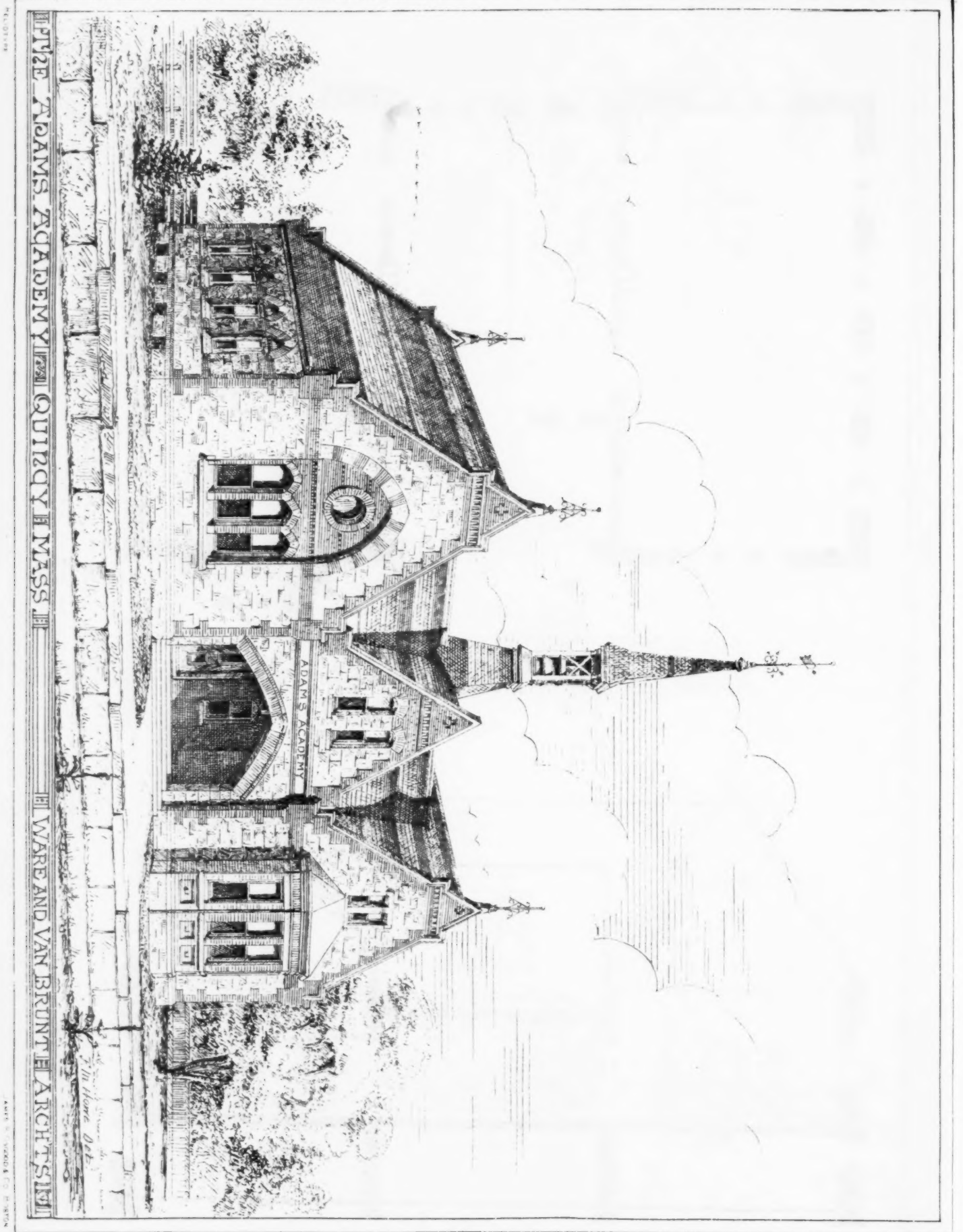
It is remarkable, in view of these facts, that in America the manufacture of plain bricks has been raised to so high a standard. But this high standard has been maintained, not because they are needed as a substitute for stone, but because they are so perfect as to stand in direct competition with it, and in many instances are considered preferable for the most elegant and costly buildings. American terra cotta must therefore bid for favor only in

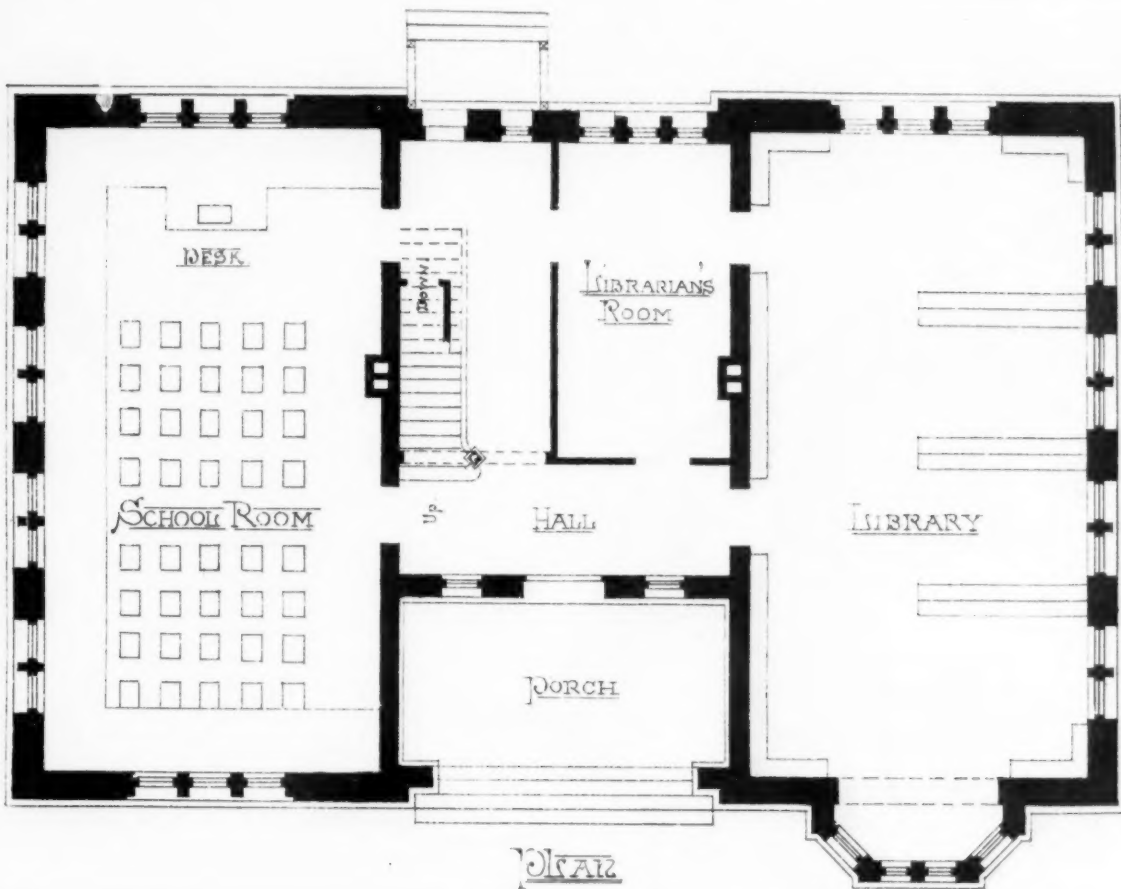
its most perfect form. We do not tolerate crooked lines or varying color in our buildings. Everywhere there is a demand for perfection in the finish of our work, which Europeans often regard with indifference. This old material revived must have something more than its old qualities to commend it to general use, and make its manufacture profitable. Hence we may see another reason why its introduction has been slow. Still another is that most of the attempts that have been made to produce it have been in the direction of imitating stone; and architects of taste and education, not being fully acquainted with its capacities for producing legitimate ornament, and the limitations to which it is subject, have not been inclined to encourage its use. In fact, it has generally been debased by being put to illegitimate purposes, and, as an imitation of stone, has been such a poor substitute as to have been practically useless. The success of the works in Chicago can only be said to date from the time when they began to produce a purely legitimate article, and it had been practically demonstrated that artistic qualities could be developed in buildings almost entirely constructed of a plastic material, freely confessing itself, which qualities could be produced in no other.

The manufacture of terra-cotta in Chicago was commenced in 1868, by the firm of Hovey & Nichols, who at that time carried on the business of seedsmen and florists. Mr. J. F. Nichols of that firm is entitled to the credit of establishing the works. Becoming interested in the subject through foreign travel, he bought out a pottery which had been established at Indianapolis, by a potter named Wright, for the manufacture of chimney-tops, vases, and building-work in a small way. Mr. Nichols brought to this country Giovanni Mehli, a very skilful modeller, and placed him in charge of that department. But very soon it became evident that Indianapolis was not the best place for the works, and they were accordingly moved to Chicago. The superintendent was J. N. Glover, who moved with the establishment from Indianapolis; and Mr. Mehli continued as modeller. In this capacity he modelled several very fine fountains and some statuary, besides much of the ordinary ornamental building-work. When the works were moved, a Chicago architect, Sanford E. Loring, together with other capitalists, took an interest in them; and a company known as the Chicago Terra-Cotta Company was organized in the fall of 1869. Improved kilns were constructed, and the company prepared for an extensive business, which, besides the making of garden-ornaments, consisted of the manufacture of window caps and dressings, chimney-pots, etc., though these were generally of inferior design. In the spring of 1870 Mr. Loring began to take an active interest in the works. He opened a correspondence with the best manufacturers in Europe, and procured the services of James Taylor as superintendent, Mr. Glover having withdrawn to enter other business. Mr. Taylor had formerly been foreman of Blashfield's Terra-Cotta Works at Stamford, Eng., and had in that capacity superintended the terra-cotta work for Dulwich College. Charles Barry, architect. Mr. Mehli continued as modeller until 1872, and under these gentlemen the manufacture was vastly improved. In the spring of 1872, after the great fire, Mr. Loring became president of the company, and has since that time had control of the works. The works were spared by the fire, and were therefore in condition to execute the large amount of work which was ordered in consequence of the rebuilding of the city, though this never equalled the extent of work shipped to other localities. Since the works were established in Chicago the production has amounted to half a million dollars, and has been scattered from Salt Lake to Boston, and from Minnesota to Texas. The best of the work has been done in Chicago. The making of cornices for city buildings was commenced in 1872, and has increased ever since, and is rapidly supplanting the use of galvanized iron. While before 1872 the company was largely engaged in producing cheap and inferior substitutes for stone, it has since that time found a field for the making of more legitimate work. This is due to the energy and artistic appreciation of Mr. Loring, and the encouragement of many of the architects of Chicago, who, after studying the processes of manufacture readily at hand, have learned to adapt the material to proper uses. The homogeneity of terra-cotta with brickwork has been readily recognized in many instances, heavy projections have been discarded, delicately carved ornament introduced where most effective, and the natural colors of the material preserved. Recently, glazed terra-cotta has been employed for inlays in brick buildings with good effect; and semi-glazed cornices have proved effective and durable. The work has stood well wherever care has been taken to prevent moisture from invading hollow cells, and freezing therein. To avoid this all prominent works are set under the eye of a man sent by the com-









SCALE OF FT. 5 25

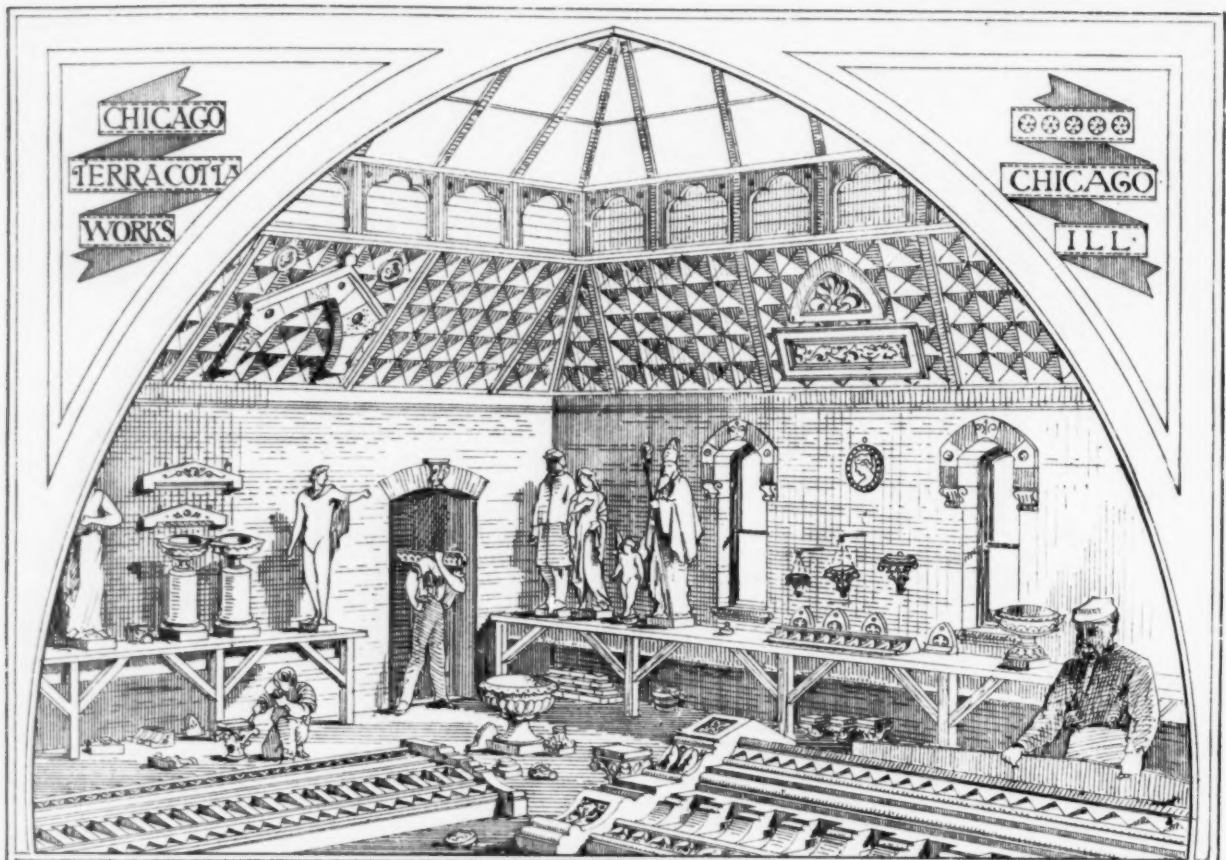


SECTION

THE ADAMS ACADEMY • QUINCY MASS • WARE & VAN BRUNT ARCHTS. 1871

E. M. Hove. Des.

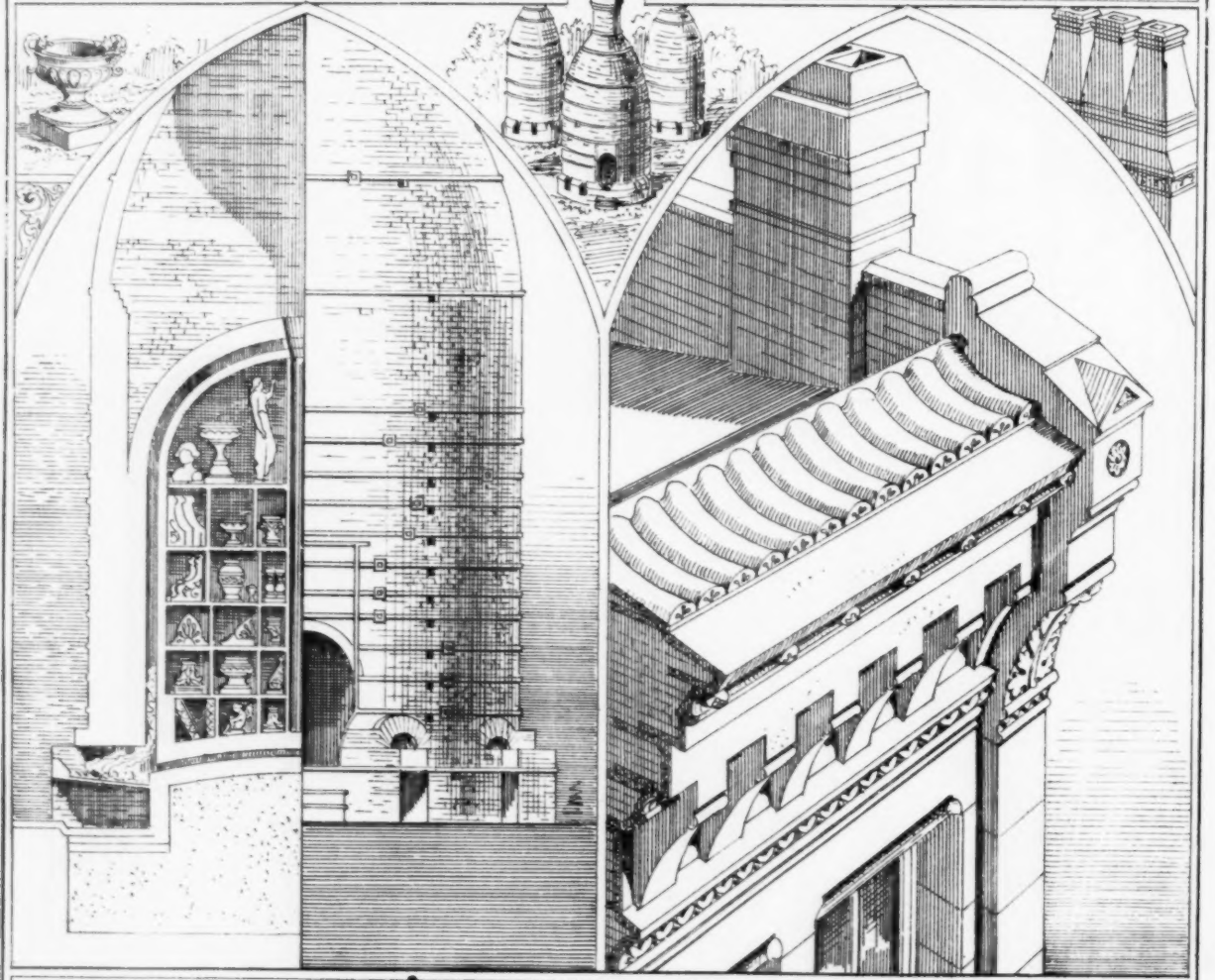




CHICAGO  
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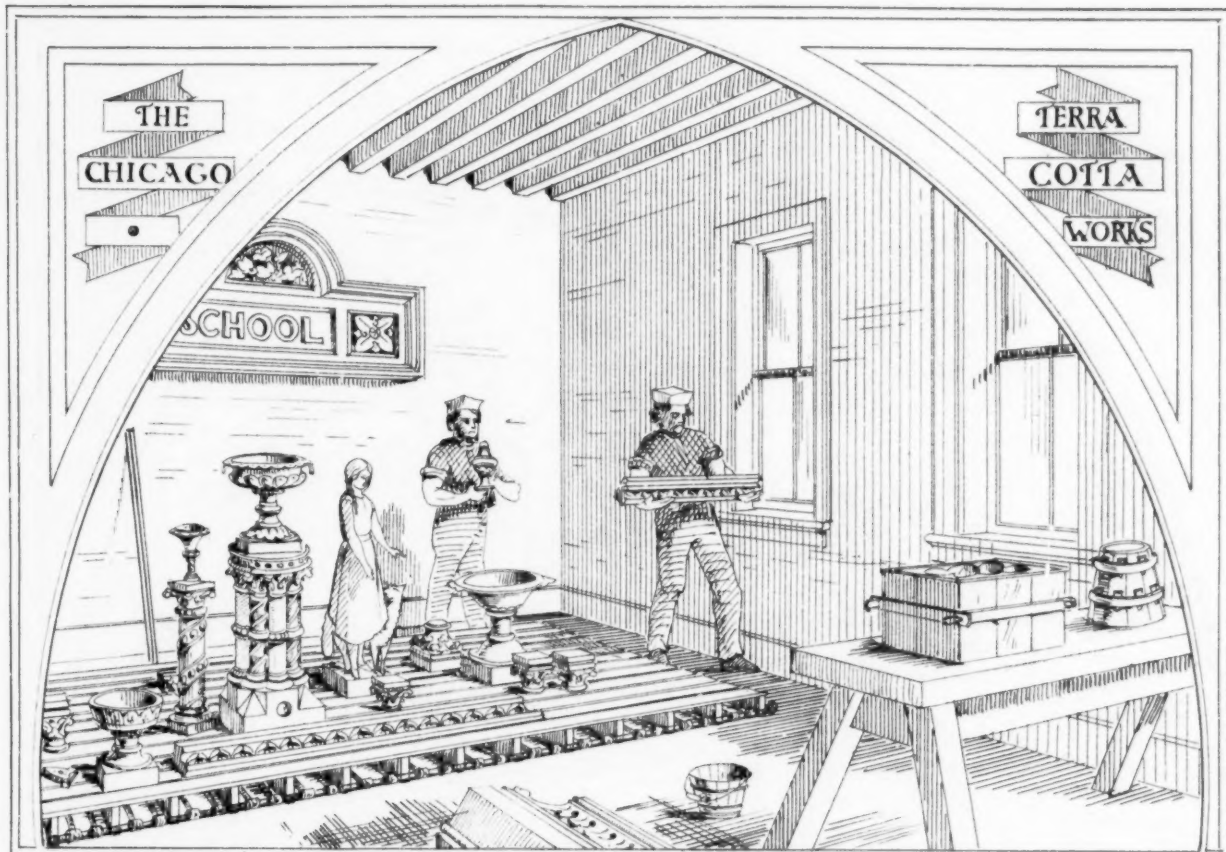
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FITTING AND SHIPPING ROOM

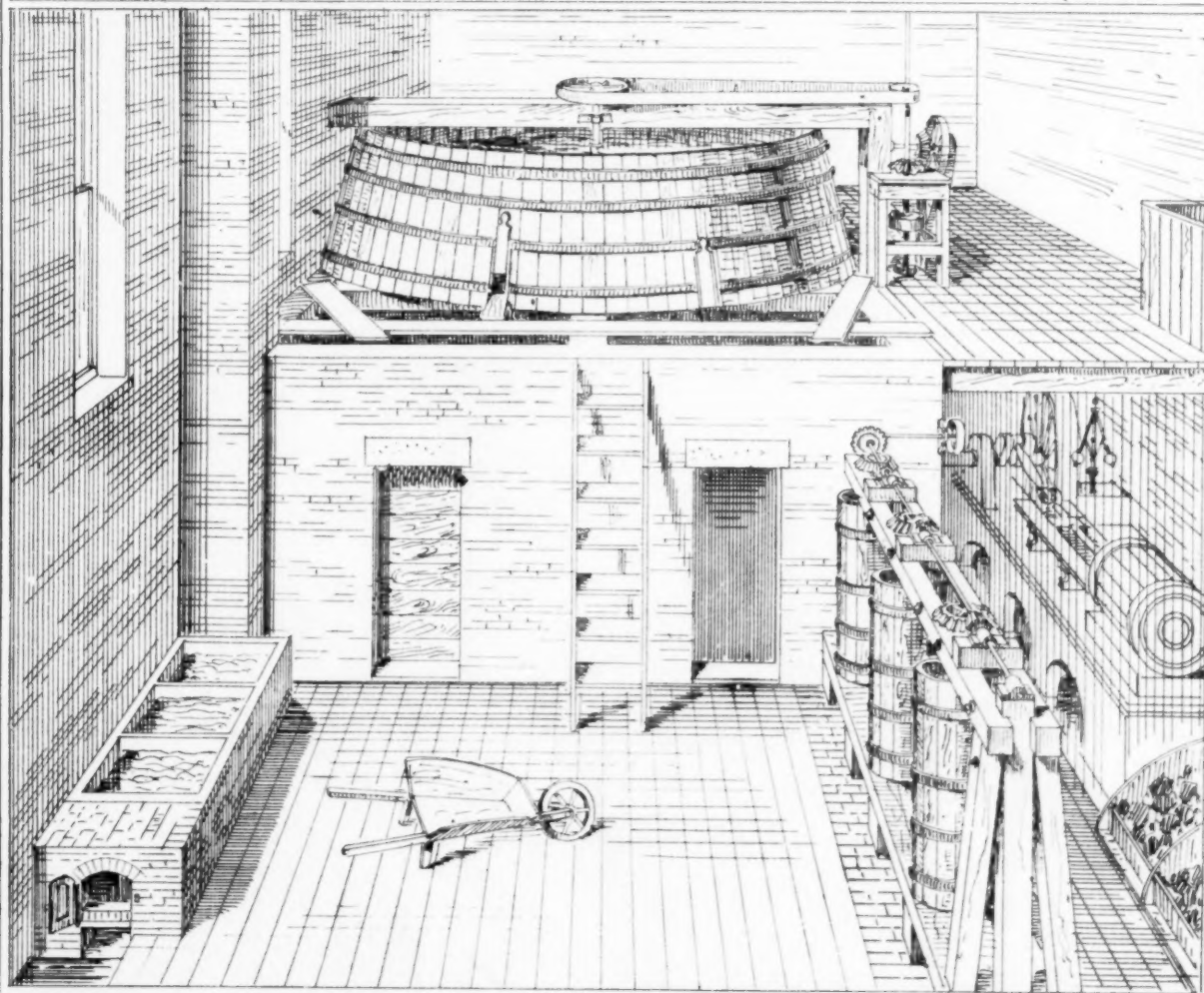


SECTION KILN ELEVATION

SKETCH OF A TERRACOTTA CORNICE



DRYING ROOM: HEATED BY STEAM COILS : PRESSERS



MACHINERY FOR WASHING BOILING AND MIXING THE CLAY :



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pany. The ornamentation now produced is all hand wrought; that is to say, if it is a running or continuous ornament, it is first moulded nearly to the form required, and before baking is all worked over with modelling-tools. The finer kinds of work, such as panellings, tympana, and capitals, are all modelled or carved in semi-dry clay, and baked just as they come from the tools. The modellers lately employed have been James Legge and Isaac E. Scott, both adepts in the modern Gothic school.

Besides architectural work, the company manufacture fire-bricks for their own use, porous tiles for deafening or for ceilings and side-walls, porous blocks for fire-proof columns, porous hollow bricks and flues. Of ornamental work they produce a large variety of garden ornaments, and vases, water-coolers, and pots in great variety, which are thrown on the wheel, and made of red, buff, or black body, — as well as statuary in all the above colors.

Such is an outline only of the history of the first permanent establishment in America for the production of architectural terra-cotta. To recount all the trials, discouragements, and failures incident to such an undertaking, would make a long story of it, and would be not unlike that of other establishments.

We will now give some account of the plant and processes used in their works, which our illustrations will serve in part to explain. The buildings are on the corner of Ladin and Fifteenth Streets, and cover an area of 200 by 130 feet; while the clay-sheds are 40 by 130 and 40 by 65 feet respectively. The body of the terra-cotta is essentially the same as that used in common earthenware. The latter is made of pit clay and calcined flints. The flints are necessary to open the ware, speaking technically, and to prevent, or rather regulate, the contraction and too rapid vitrification. In terra-cotta flints are not necessary except for floor-tiling wherein it is essential to produce a close texture in burning. The company use common potter's clay from Brazil, Ind., which in its pure state makes a yellow ware, and with hotter firing makes stoneware. Mixed with the common clay is pulverized terra-cotta, or waste called *grit*, and pure sand, which tempers the clay on the same principle that ground bricks and sand are essential to the making of all good building-bricks. This tempering also regulates the shrinkage, — one of the most important matters to have in view. Experience alone determines the proportions of the ingredients, which are essentially the same as for the composition of the best English terra-cotta. The potter's enemies are lime and iron; and any invasion of the kilns by these substances must be jealously guarded against. The same mixture is used for building-work as for garden-ornaments or chimneys. For the porous body used for fire-proof tiles or bricks, the same material is mixed with sawdust, or other vegetable matter pulverized. This process has been patented by Mr. Loring. For thrown work or statuary, where a fine surface and perfectly uniform color are essential, a boiled *slip* of pure clay is employed. The red clays used for this purpose come from Northern Indiana, while the black, brown, or drab body is produced by mixing proper proportions of metallic oxides, mostly black oxide of manganese, with either buff or red clay as may be desired.

The process of preparing the clay is as follows: It is first washed in a *blunging-tub*. This is the large circular tub shown in our illustration, standing on a brick vat. It contains a mixer driven by a belt. Here it is mixed with water to the consistency of cream, a known quantity of clay being used for each mixing. The *slip* thus formed passes over through a strainer, shown in the side of the tub, onto the floor of the brick receiving-bin. The stones and other impurities remain at the bottom of the tub. As soon as the contents of one tub have been run off, the other constituents of the terra-cotta, proportioned to the amount in the tub, are spread over the deposit. Then another washing takes place; the constituents are spread in the vat, and the process continues until the vat is full, the superfluous water rising to the top. The water is then drawn off, leaving a paste which is allowed to stand as long as possible, sometimes twelve months. The paste when required for use is cut through vertically, and is mixed in the pug-mills, which are shown at the right of the illustration. It is then ready for use, and is passed over to the moulders.

The process of moulding is seen in the upper illustration on the same page. The moulds are made of plaster. To expedite the work, the wet clay is dried over steam-pipes which cover the floor of the drying-room; for it must be as dry as possible before going into the kiln. The work is all burned in *muffled* kilns. (An elevation and section of one is shown.) The works contain two of these which have now been in use six years. The fire does not touch the contents, but passes under the floor to a clay pipe in the centre, and also between the two inner shells of the kilns to the

opening in the top of the dome. The kilns are respectively sixteen and eighteen feet in diameter outside, and twelve and fourteen inside. They are sixteen feet high inside. There are five fires to each; and the kilns are perforated with numerous trial-holes, so that all parts can be seen from the outside; and trial-pieces placed near the holes can be examined as the firing progresses. Every thing depends upon careful firing by experienced hands. Slow fires are run until all indications of moisture disappear, which last about forty-eight hours. A hot fire is continued for from sixty to eighty hours; and it takes from sixty to eighty hours to cool off sufficiently for the removal of the work. As it takes two days to fill a kiln, the full time for each burning is about ten days.

The work being burned, it is passed to the fitting-shop (also shown in the illustration), where all necessary trimming is done. It is then ready for use.

Besides the above, the works contain many other buildings. There is a department for red ware, turning, etc. There are mill-rooms for grinding and preparing grit. This requires three processes, — crushing, grinding, and sifting. The boiling of slip for fine ware is shown in one of the illustrations. There is a draughting-room and a modelling-room or studio for preparing models and moulds. There are store-rooms and a show-room besides clay-sheds, coal-sheds, and a fifteen horse power engine. Mr. Loring has recently constructed a small experimental glazing-kiln which is heated by a side draft taken from one of the large kilns.

The company has done much of late in the way of surface treatment with various kinds of glazing. Formerly all the work, however well burned, was slightly porous. Now all porosity, in work for external use, is avoided by the use of glazes varying from dead or flat glaze, which only closes the pores, to a full glaze, as on earthenware bodies. Lead glazing is used, consisting of pure oxide of lead ground in oil with pulverized calcined flint, and applied as a wash before burning. Recently some very good samples of glazed brick have been produced. The lead glazing brings out the natural colors of the clays; and black is produced by black oxide of manganese mixed with a fusible slip clay. Some attempts have been made at producing wall-tiles with carved patterns colored with opaque glazes.

The vignettes in the illustration show a die for stamping tiles, some plain chimney-pots, and specimens of carved spandrel decorations. A perspective view of a cornice made for a store on Washington Street, Chicago, is also given. This cornice has a brown dead glaze, and is relieved with colored rosettes between the brackets.

#### THE ILLUSTRATIONS.

ADAMS ACADEMY, QUINCY, MASS. MESSRS. WARE AND VAN BRUNT, ARCHITECTS.

(2 Pemberton Square, Boston, Mass.)

JOHN ADAMS, the second President, bequeathed his library to the town of Quincy, and a sum of money for the purpose of erecting a school-building in which Hebrew should be taught. This fund was invested, and in the year 1863 had accumulated to an amount sufficient to warrant the construction of the building illustrated in this number of the *American Architect*. It is built with Quincy granite, coursed, rough-faced ashlar masonry, with reveals, string-courses, and cornices of brick. It includes a large schoolroom on the left of the entrance, and a library on the right, both having steep open-timbered roofs. The portion of the building between these two rooms is occupied by the corridors, and an office with stairs leading to earth-closets in the basement, and to a large apartment in the second story, which is used in connection with the school. The building is heated by steam through radiators under the windows, each radiator receiving fresh air from openings over the basement windows. On the sides opposite the windows are ventilating-shafts opening at top and bottom of each room, and communicating with the central ventilating tunnel. The building is occupied by the town library, and by the foundation school known as the Adams Academy. It was built by Messrs. Clement and Creasy, after the designs and under the superintendence of the architects.

#### MAKING TERRA-COTTA.

See preceding article.

#### BOUND VOLUMES OF THE AMERICAN ARCHITECT.

SHORTLY after the close of the year, suitable cloth bindings for the *American Architect* will be furnished to subscribers, at a price to be fixed hereafter. The publishers will also keep on hand bound volumes of the numbers of the past year.

## CORRESPONDENCE.

## NEW BUILDINGS IN GLASGOW.

LONDON.

In our last notice on some recent buildings in Scotland, reference was made to the enormous rate at which Glasgow has been and is now extending on all sides, and some of the churches in the new suburbs were noticed. But not only is the city stretching out its arms on all sides into the country: its centre, comprising the chief business localities, is being rapidly rebuilt, and that, too, in the most substantial, not to say magnificent, manner. Great blocks of offices, warehouses, and shops, are rising everywhere, while of public or semi-public buildings there are not a few. Many of them are of a high order of architectural merit, while all are more or less imposing from their size, or the material in which they are built. We have already noticed the new Stock Exchange, and next may be mentioned the new Merchants' House in George Square. George Square is probably the largest open space in the city proper, and when its rebuilding is complete will be one of the finest squares in any commercial town we know of. The central space of the square itself is just now in a transition state. It used to be laid out in gardens; it is now to be laid out as an open "place." In it are monuments and statues to the Queen and the late Prince Consort, Sir Walter Scott, Moore, etc. The whole of the western side of the square has been rebuilt, the north-west corner of which is occupied by the New Merchants' House, while the corresponding corner on the south is occupied by a large new insurance-office. The whole side of the square has been arranged on the same design, so as to bring it all into harmony. We believe the insurance-office, which was built first, and from designs by the late Mr. Bryce of Edinburgh, gave the cue to the rest; its general features are carried on to the Merchants' House, though varied here and there to suit the different circumstances. It is Italian in style, freely treated as regards the Merchants' House, which has a striking tower at the angle of good design, with a certain originality of treatment which is very acceptable; boldly projecting semicircular oriel windows also give great variety to both façades without destroying the general breadth of the design. All the detail seems very good, and carefully worked out. Some large rough blocks are yet to be carved, among which are the corbels under the oriels, which are to be figures of some sort. This house is a most notable addition to the new public buildings, and is a very clever specimen of modern Italian architecture.

Nearly the whole south side of the square is to be occupied by the new post-office, the foundation-stone of which was laid by the Prince of Wales about two months ago. It has been designed in the Palladian style by Mr. Robert Matheson of H. M. Office of Works, Edinburgh. From the published drawing it seems to be in the ordinary vernacular; and, though commonplace enough in its general features and treatment, will probably be effective from its size and the excellent building-material in the stone used at Glasgow. Not far from this the Union Bank is being rebuilt. Though not far enough advanced to judge of its effect, it promises well so far; it also is classical in design.

In St. Enoch's Square an enormous central railway station is being built. The roof is modelled after the style of the St. Pancras station in London, and is not much less in the span. This station is to accommodate the traffic of the City Union Railway and the Glasgow and South-western Railway, and be the terminus of the Midland system in Glasgow. The whole of the east side of the square, as well as several small streets behind it, has been taken down to make room for it; and, though the great iron roof is not yet completed, the station has been partially opened for traffic, and the Midland through expresses from London now run into it.

Of the many new warehouses too numerous to mention, the one in Union Street, from the designs of the late Mr. Alexander Thomson, is probably the most remarkable. It is in that phase of Greek architecture he may be said to have created, and which in all likelihood will die with him. An artist in all he did, this is one of his most artistic productions; even the difficulty of the shops on the street floor, he seems to manage better than most people. This warehouse is exceedingly clever, but very difficult to describe, so utterly unlike is it to our ordinary notions of Greek work. We search in vain for precedents for its windows and doorways, its columns and cornices; yet all is redolent of Greek spirit and Greek art. All its detail of moulding and carving—and there is almost a superabundance of both—is drawn with the firm, free hand of an artist thoroughly at home in what he is doing, quietly reviving in the most original manner the architec-

ture of the Greeks in a modern Scotch town. This has been done before in Edinburgh by Playfair, but never with the force and originality of Thomson, whose works must not only be seen, but studied, to be understood. Truly Scotland lost her most artistic architect, and art in general a most accomplished and cultivated disciple, when "Greek" Thomson, as he was familiarly called, passed away.

But the largest and most important of the new buildings we find in the new Public Hall, or Halls, for there are several grouped together. The need of a thoroughly good hall for concerts and public meetings has long been felt in Glasgow, the old City Hall being totally inadequate to the requirements of the town as it now exists. A company was formed, and a site purchased at the West End. The late Mr. John Cunningham of Liverpool, and Mr. Campbell Douglas of Glasgow, were engaged as architects; and the result is the magnificent pile of buildings now approaching completion. The only mistake seems to have been made in selecting the site, by which a really fine public building is hidden away down a very second-rate street where there happened to be a large lot of vacant ground. Had it been erected, say, on the east side of George Square, it would have held a position worthy of its importance and architectural merit, and of the enterprise which has called it into being: as it is, most of its effect is lost, and it adorns nothing but one side of a narrow street. The site apart, little or no fault can be found with the manner in which the building has been carried out. We understand Mr. Cunningham was selected from his having built the Philharmonic at Liverpool, one of the most successful concert-halls in England; that he made the general design with Mr. Douglas, who, with his partner Mr. Sellers, has carried it out on the spot. It has therefore had no lack of architects. In this case there seems to have been a considerable amount of wisdom in the multitude of counsellors, for it is a credit to all concerned, so far as it has gone. Whether it will fulfil all anticipations as a concert-hall, remains to be seen; but so far as one can judge at present there seems small ground for fear on that score. The general style of the architecture is Greek, not of the highly artistic Thomsonian type, though the force of his influence is not wanting either, but rather of the better known and more usually practised phase to which we are more accustomed. The principal front is composed, in the centre, of a range of Ionic columns set on a high basement, in which are the entrance doorways, and is surmounted by an attic with caryatides. This central block is flanked by wings, which have deep sculptured friezes as their most noteworthy feature. These wings are continued some way down each side, where the fronts are very cleverly broken up to suit the varied requirements of rooms of different sizes, staircases, etc. In these lateral fronts the influence of Mr. Thomson's Greek makes itself felt, and with remarkably good effect too, they being exceedingly well designed throughout. The large public hall placed at the back, and on the upper story, is approached by broad handsome staircases. It is a noble apartment about 190 feet long by 45 feet broad, and is 40 feet high. It is lighted by windows placed high in the side walls, and has a flat, richly ornamented plaster ceiling. No columns intercept the view of the orchestra placed at one end, except a screen of Corinthian columns across a gallery at the opposite end. These seem the only defects in an otherwise fine interior, as they are out of scale with those around, and so would be out of the way, from a utilitarian as well as from an art point of view. A narrow gallery is also carried along the side walls. It is said to be capable of seating five thousand persons, which seems a large number for its size. On the same floor are two ball-rooms, supper-rooms, corridors for promenading, etc., all communicating *en suite*; the whole forming a magnificent set of halls admirably planned and arranged. On the ground floor are lesser halls, committee-rooms, and other apartments. The style is very well carried out all through, the detail being of good character, and giving evidence of careful study. What is finished of the plaster ceiling is remarkable for its excellence of design, and delicacy of execution, particularly in one of the ball-rooms. The beams and coffers of the ceiling of the great hall seem rather heavy and deep for the flat ceiling they enrich. Though the interior is far from finished, still the building generally is well advanced, and arrangements for its opening are being talked about. We understand the cost has been somewhere about seventy-five thousand pounds, which cannot be said to be heavy, considering the many requirements, and the great accommodation provided. Glasgow will have every reason to congratulate itself on its new Public Halls, as there will be few finer sets of rooms to be seen anywhere in the kingdom.

Glasgow would be a fine city if the streets were only kept clean, and the drainage carried out to sea, instead of into the River



Clyde. A new system of drainage has been talked about, has been designed, and doubtless will be carried out; but the streets are as bad as ever, in spite of all the recent improvements.

## THE BROOKLYN DISASTER.

NEW YORK.

THE architects are striving anew — with the hope that the present excitement may be turned to some permanent good — with the problem of how to make a safe place of assemblage. Theatres, churches, schools, lecture and concert rooms, are all alike subject to the same visitation of fire and panic. The examination before the fire-marshal into the origin and progress of the fire shows that the building was good enough to pass the scrutiny of the building-laws, which is, after all, saying very little in its favor; and it was just such an edifice as ten out of a dozen architects hampered in funds, and controlled by an unwise economy on the part of owners, would have erected. It was not a model affair by any means, — little honor is to be given the creator of such a temple of the drama, — but if it had been fairly good and properly controlled, would have served its ends after a manner. The investigations bring out the fact that every thing was done to help on the catastrophe, and nothing to prevent it. The employees swear that no appliances for the extinguishing of fires existed; the owners are as positive that they were there, ready for emergencies: but certain it is, that not a faucet was turned, nor a drop of water spilled upon the fire until the arrival of the firemen, and by that time over three hundred lives had been sacrificed. The crowds escaping used the regular means of entrance and exit; and while additional means of exit from the lower part of the house were thrown open, but few availed themselves of these avenues of escape. This is a fact worthy of note in dealing with the question of means of escape, — that a familiar even though more circuitous route will be used in preference to an unfamiliar means of exit. The fatal gallery-stair is specially described by the fire-marshal. Speaking of the entry to the staircase at the upper end, he says, "There were no doors hung there. It was simply an opening about six feet wide, with partitions on each side, against which the ends of the seats abutted. The stairway was crowded in two places, the largest crowd being heaped up in an angle on the platform opposite the box-office. This was only one flight from the street, and the stairs were unobstructed all the way from that point down."

There is no proof that any attempt was made by firemen, police, or theatre attachés, to rescue these unfortunates; there is no evidence that those connected with the establishment either knew or made any effort to inform themselves whether the gallery had been cleared. Many brave rescuers pushed into the parquet and dress-circle to save life, but up the single gallery-stair none cared or thought to venture.

The conclusions drawn by the fire-marshal from his very thorough inquest into the matter are significant especially touching the means of exit. Concerning this last he says, "The means of exit from the gallery, while good enough for ordinary purposes, and better than are now furnished in other public buildings in New York and Brooklyn, were not good enough in case of fire or panic. The means of exit from the other parts of the house were good. Had it been otherwise, the loss of life would have been far greater than it is. One witness, who was probably the last man to leave there alive, says the people would not have had time to escape the fury of the flames if there had been two stairs, one on each side of the gallery, instead of one."

The coroner's inquest into the disaster, following close upon that of the marshal, is necessarily much in repetition; but there is much new matter brought out, some of it of interest to architectural readers. Col. Keeney, builder and part owner of the building, testified to an original estimate of \$165,000, and a final cost of \$227,000; the extra expense being for better quality of materials used. Thomas R. Jackson, the architect, described the plan and features of the building as designed by him, reading to the jury quite a long essay on data derived from his experience, and laying down rules which he employed in arranging the interiors of similar places designed by him.

The members of the New York Chapter of the Institute will take some action at an early day, through their examination committee, looking to the placing of the building-law on a broader basis. That the law as now existent is far from complete, is beyond dispute; and even as it is, the commissioner authorized to administer its provisions proceeds in an undetermined manner to carry out what it seemingly tries to cover. The law was left purposely indefinite, and the administration is as a consequence

vacillating and uncertain. The law needs to be broad enough to cover all cases, and then to have the services of an educated and experienced architect for its carrying out. It was in view of these acknowledged weaknesses in our department of building control, and in the hope that the present was a favorable moment for action, that Mr. Richard M. Hunt, chairman of the New York Chapter A.I.A., directed a calling of the examination committee of the Chapter. This committee, in conjunction with a number of builders, sit as an advisory board with the superintendent of buildings, and are by and through the exercise of these duties more conversant than their fellows with the wants and demerits of this department.

The committee met last Saturday (16th inst.), with Henry Dudley, Napoleon Le Brun, R. M. Hunt, Richard M. Upjohn, and A. J. Bloor, present. The question of how best to improve the construction of theatres, in view of the late calamity, was discussed. It was at first thought advisable to prepare an address to the public, pointing out the faultiness of our present negligent mode of letting things take care of themselves, and suggesting what ought as a minimum scale of precaution to be taken in the case of all public assemblage halls. It was finally concluded to draw out the sense of the committee by taking a recess of a week, giving members time to arrange their individual suggestions, and for consultation, the committee to meet again on the 23d inst. for further discussions. It is the intention to make an effort for a new building-law, or such a widening and systematizing of the present one as to make it more in accordance with what our best architects feel such a code should be.

## FALL OF A FLOURING-MILL

ST. LOUIS.

EDITOR AMERICAN ARCHITECT, ETC.

Sir, — Your letter of Dec. 5 received. You wished to know concerning the facts in the case of the falling of a building on Main Street, near Cherry.

We have viewed the premises since the fall, and spoken to our chief of the fire-department, who is a practical builder and expert.

The facts of the case are about as follows: The part that fell was a portion of a row five stories high, exclusive of basement, and was used for milling purposes at the time of the accident; there were four run of stones, and four hominy-mills. The two north stores, next to the extreme north store, were each some 25 feet wide between walls, and about 140 feet deep; the floors or stories were mostly in one compartment each. There was a brick wall between the stores, 18 inches thick, from the basement floor to the topping-out, making it about 80 feet high. This wall was built of brick laid in lime and sand mortar, a great many of the bricks being soft and of an inferior quality; this wall and the side walls were corbelled out for the reception of the joists, some 4 inches, though in places the joists ran into the walls for 1 inch to 2½ inches.

The above-mentioned 18-inch brick wall gave way or crushed, letting all the floors down, with the exception of about twenty feet on the west end. The stones were running at the time with only some 4,000 bushels of grain in the house. The mill superintendent told me he has had as high as 14,000 bushels in the house at one time. It is thought that the natural weakness of the wall, combined with the slight jar the machinery gave, caused the accident. Another cause which assisted to weaken the wall was the fact that the building had been used as a pork-packing establishment: the salt from the meat had come in contact with the wall, and softened the exposed brick and mortar to a certain extent. The above are the causes of the accident so far as we know.

Very respectfully,

BARNETT &amp; TAYLOR, Architects.

## WEIGHT OF SNOW.

TO THE EDITOR OF THE AMERICAN ARCHITECT.

HAVING a very large roof in course of construction, I have recently had occasion to refresh my memory on the subject of the weight of snow per cubic foot.

Trautwine places the varying weight of snow, according to its dryness, or the extent to which it may have been soaked with rain, within so very wide a compass, that I took occasion to make an experiment to satisfy myself with the snow which fell (much of it mingled with hail and wet with rain) Saturday, Dec. 16.

At six, P.M., there was a coating of compacted wet snow, ice, and hail, a little more than two inches in thickness; and in my opinion a winter roof-load would scarcely ever be met with of greater

specific gravity. A portion of this, as it fell, was taken 6" x 6", and found to weigh twenty-four ounces, or thirty-six pounds to the cubic foot. There was a considerable fall of light snow later in the evening.

W. G. PRESTON.

BOSTON, Dec. 20.

#### NOTES AND CLIPPINGS.

**ESTIMATES FOR PUBLIC BUILDINGS.**—The following are among the estimates of the Treasury Department for public buildings:—

BOSTON POST-OFFICE AND SUB-TREASURY.	
Purchase of additional land in process of condemnation . . . . .	\$135,000
Continuation of building . . . . .	500,000
Amount to be appropriated . . . . .	635,000
Amount provided for fiscal year ending June 30, 1877 . . . . .	235,000
FALL RIVER POST-OFFICE.	
Purchase of additional land . . . . .	\$ 45,000
Continuation of building . . . . .	125,000
Total . . . . .	\$170,000

The following are the estimates for light-houses, beacons, and fog-signals:—

Cape Elizabeth Light-station, Maine . . . . .	\$ 5,000
Isles of Shoals Light-station, New Hampshire . . . . .	4,000
Day-beacons, Maine, New Hampshire, and Massachusetts . . . . .	10,000
The "Whale" Day beacon, Rhode Island . . . . .	10,000
Muske-Bel Shoals Light-station, Rhode Island . . . . .	6,000
Conanicut Light-station, Rhode Island . . . . .	30,000
Watch Hill Light-station, Rhode Island . . . . .	3,500
Rose Island Beacon, Rhode Island . . . . .	4,000
Stratford Beacon, Connecticut . . . . .	1,500
New London Depot, Connecticut . . . . .	3,000

**RAISING AN IRON ROOF.**—The iron roof of the Palmer House in Chicago has lately been raised thirty inches. The roof has a superficial area of 95,809 square feet, and a weight of 7,644,000 pounds. It was lifted in five sections. It took 200 hydraulic jack-screws and 65 men two days to raise each section.

**NEW COURT-HOUSE.**—The Hudson County (N.J.) Board of Freeholders have again decided to purchase the Harrison estate, on the brow of Bergen Hill, for a site for the new court-house. The price to be paid is \$2,000 per lot, or about \$128,000 for the site.

**THE STATUE OF LIBERTY.**—M. Bartholdi is reported as having said recently, "Already a hundred and twenty-five villages in France have voted for appropriating various sums, while here the subscription has been open some six months, and little or nothing has been done. I have the arm to the shoulder finished, and have also begun other parts of the statue. I must see how the subscription goes on here; if it progresses rapidly I will return to Europe, and push the work vigorously to completion; if on the contrary the subscription goes slowly, I will only finish the head for the French Exposition of '78." The arm of the statue is to be placed in Madison Square this week.

**THE BROOKLYN THEATRE.**—It is stated that the Brooklyn Theatre is to be rebuilt.

**SALISBURY CATHEDRAL.**—It is said that the restoration of Salisbury Cathedral in England has cost thus far \$260,500, exclusive of the reredos, the organ, and the choir-screens, which were special gifts. The completion of the work, the restoration of the nave and north porch, will cost, according to Sir Gilbert Scott's estimate, about \$44,000, of which half has been subscribed. The Dean of Salisbury generously gave \$15,000.

**A NEW DOCK FOR TIMBER.**—The new dock of the Surrey Commercial Dock Company, London, opened on the 7th of November, measures 500 feet by 1,500 feet, and has consequently an area of more than 17 acres; the water is 27 feet deep under high water level. The walls are built of concrete blocks weighing one or two tons, dove-tailed shaped, and bonded into the concrete backing. The area of the quays immediately surrounding this dock is upwards of twenty-one acres.

**SEA-CLAY BRICKS.**—A few years since, a hospital was built at Merthyr-Tydfil, Wales, of bricks made from sea-clay and sand, according to the specifications of the architect, who stated that they would "harden like iron." So far from doing this, they have so decayed that they are now "as soft as dumplings," and nails can be driven through them with the greatest ease; and they seem to be so far gone in decay that it will be impossible to cement them over.

**A PATRIOTIC BELL.**—The large bell in the Cologne Cathedral, made out of captured French cannon, is a failure. The tone being very unpleasant, it could not be used, and was named "the Silent Bell." But now we understand that it has been made to give forth a clear sound at last. The trouble was caused by using too light a clapper, although the original clapper weighed fifteen hundred pounds. A new clapper weighing more than a ton, suspended by leather straps, is now used; and the sound produced by the stroke is deep and clear, and the bell is now called the "Emperor's Bell."

**METALLIKON.**—This invention consists in the combination of glass and ceramic substances in a very ingenious manner. For instance, stained glass windows can be produced by fixing upon sheets of clear glass, by means of a transparent cement, colored glass or ceramic substances; thus doing away with the disagreeable necessities of frequent "leading." Glass rods, tubes, and prisms can be used in geometric designs, producing by their refraction and interference brilliant and unusual effects.

**WORKING BY ELECTRIC LIGHT.**—The workmen who are employed in preparing the Trocadéro at Paris for the Exposition work after nightfall by the light of electric lights.

**CARTHAGE.**—A correspondent of the London *Times* writes of the present condition of Carthage as follows: "The only remains in any way complete are the reservoirs and the aqueduct. The former are in a good state of preservation, and are constructed on a scale of great magnificence. They are calculated to hold a large supply of water. These have all been arched over; but some of the arches are beginning to give way, and have tumbled into the tanks. Round the margin of these pools paths extend, paved with small pieces of polished marble about an inch square. All around may be picked up the fragments of pottery, broken jars, etc., which doubtless have been in use for the carrying of water by the maidens of the city. The aqueduct, constructed of enormous blocks of stone, and extending away towards the direction of Tunis, has in many places given way; but enough remains above ground to enable us to trace it through many miles. It was with regret that I found among the material collected for building-purposes at the town of Zoletta, parts of marble columns with carved work of the most magnificent description, all of which are being broken up to erect some humble steadings."

**A SINGULAR DEDICATION.**—The King of Siam recently opened a new mint at Bangkok with a singular ceremony. At five, P.M., he repaired to the upper hall, and lighted sacred tapers; and then the priests worshipped for two hours. The next morning he re-lighted the tapers, and a high priest recited the five commands. These are, "Do not kill; do not steal; do not commit adultery; do not speak falsehood; do not drink strong drink." The king sprinkled with sacred water the new mint machinery, and with his finger rubbed flour from a consecrated cake on parts of the machinery.

**NEW DEVICE FOR RAISING WATER.**—M. Th. Foucault has invented a new apparatus for raising water by means of ammoniacal gas. The machine depends for its operation on the facts that water at 15° C. absorbs 743 times its volume of ammoniacal gas, and gives it off again at 60° C.; that, at 100° C., the tension of the vapor is seven and one-half atmospheres; that petroleum and ammoniacal gas are without action upon each other, and that the same is true of petroleum and water. The apparatus consists substantially of a heater which is partially filled with a strong aqueous solution of ammoniacal gas. This heater is connected by pipe with the upper part of a closed reservoir, the lower part of the reservoir being connected by means of pipe and suitable valves with the stream or well from which, and the tank to which, water is to be raised. The reservoir contains a small quantity of petroleum, which forms a thin stratum on the surface of the water, and serves to keep the ammoniacal gas from contact with it, and, as the inventor expresses it, forms a fluid piston. The operation is as follows: Supposing the reservoir full of water, the temperature of the heater is raised by suitable means; ammoniacal gas is given off, and passes over into the upper part of the reservoir, the stratum of petroleum preventing its being absorbed by the water there. A pressure is thus created in the reservoir, which forces the water there out and up to the tank to be filled. When all the water has been forced out of the reservoir, the heater is cooled by removing the fire and allowing a jet of water from the tank to play on it. The water in the heater, as it cools, re-absorbs the ammoniacal gas from the reservoir, and thus creates a vacuum, which the water from the stream or well rushes up to fill, and thus refills the reservoir. The heater is then again heated, and so on as before. The inventor claims that the consumption of fuel is almost insignificant as compared with that of a steam-pump of the same capacity. The author also describes a modification of his apparatus, adapted to be run by the heat of the sun, in which case the only expense is that of wear and tear, which is small, there being no moving parts.

**BELL-METAL.**—A new alloy for bell-metal is proposed, which does not tarnish, is less liable to crack, gives a better sound, and is much lighter in weight, than the alloy usually employed for the purpose. It is prepared as follows: Nickel one pound, and copper six pounds, are melted and cooled. Add zinc one pound, aluminum one-half ounce; melt and cool. Melt again, and finally add one-half ounce quicksilver and six pounds melted copper.

**CAVE IN THE JURA MOUNTAINS.**—The opening of an enormous grotto at Burgos, in Spain, has been followed by the discovery of a mysterious cavern in France. While workmen were cutting Jura limestone in a quarry near Belfort, they noticed a small hole, and, after widening the opening with their pickaxes, found themselves in a vast cavern, the floor of which was about six feet lower than the orifice. Heaps of human skulls and bones were lying about, although no opening but the one which the workmen had made themselves could be discovered. On one side were beautiful columnar stalagmites, without corresponding stalactites from the roof; they resembled marble mausoleums arranged on steps in a necropolis. Nor was this an undesired name; for on advancing farther into the interior the explorers remarked a certain systematic arrangement of loose blocks in the shape of dolmens. In these half-natural, half-artificial cavities, whole skulls, thigh and shoulder bones were seen, some of them half imbedded in the stalagmites.

**TITLE-PAGE.**—An unforeseen accident has delayed the preparation of the title-page; but it will be shortly forwarded to our this year's subscribers.

**THE AMERICAN ARCHITECT FOR 1877.**—The prospectus of the *American Architect and Building News* for 1877 will be found on page vi. It contains many suggestions as to the future of the paper which will undoubtedly prove very gratifying to its friends and patrons.



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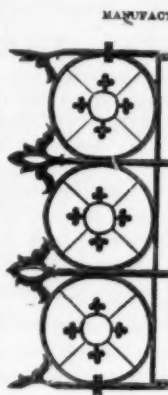


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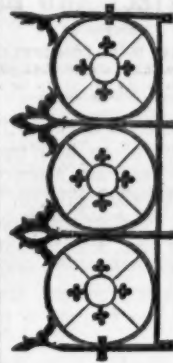
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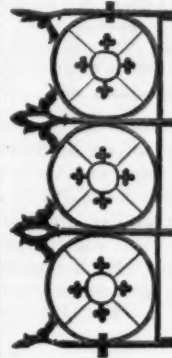
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Messrs. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called THE AMERICAN ARCHITECT AND BUILDING NEWS. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

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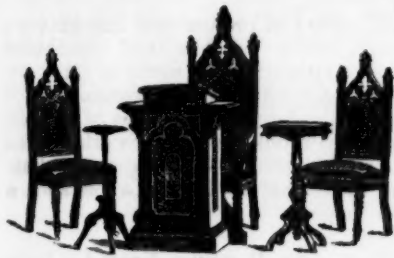
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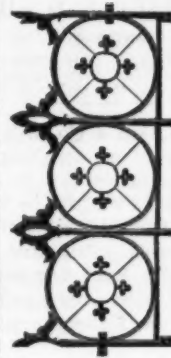
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Messrs. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called THE AMERICAN ARCHITECT AND BUILDING NEWS. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

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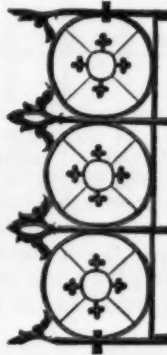
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EDITED BY  
WILLIAM P. P. LONGFELLOW,  
FELLOW OF THE AMERICAN INSTITUTE OF ARCHITECTS.

Messrs. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called THE AMERICAN ARCHITECT AND BUILDING NEWS. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archaeology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the AMERICAN INSTITUTE OF ARCHITECTS, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:—

“Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the ‘AMERICAN ARCHITECT AND BUILDING NEWS,’ be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end.”

## TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

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**PROPOSAL FOR SEWER PIPE.**  
Proposals will be received at Sewer Department, City Hall, till March 1, for the whole or any part of 20,000 feet of twelve-inch Vitrified Sewer Pipe, including 1,000 six-inch branches.  
Apply as above for specification and form of proposal.  
The right reserved to decline all bids. Indorse bids, "Proposals for Sewer Pipe," and address to  
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**PROPOSALS FOR CAST IRON WATER PIPES.**  
**CITY OF BOSTON, CITY HALL, COCHITUATE WATER BOARD OFFICE, Feb. 1, 1876.**  
Sealed Proposals will be received at this office until 12 o'clock M. of WEDNESDAY, the 16th day of February, 1876, for separate contracts, to be indorsed as follows: 1st, "Proposals for Cast Iron Water Pipes for the Sudbury River Conduit;" 2d, "Proposals for Cast Iron Water Pipes." And at that time and place they will be publicly opened and read.  
Bidders are required to state in their proposals, their names and places of residence. Each bid must be signed by the bidder, and accompanied by a written bond for \$1,000 of a responsible person, giving his place of business or residence, and conditioned for the execution of the contract (with satisfactory security for its performance) within the time specified in this advertisement in case the bid be accepted; or, in lieu of the bond aforesaid, a sum of money or other satisfactory collateral security in the same amount may be deposited with said Water Board.  
The person to whom the contract may be awarded will be required to execute the contract within four days (not including Sunday) from the date of notification of such award, and the preparation and readiness for signature of the contract.  
The delivery of pipes on the first contract to commence on May 1, 1876; on the second contract, as soon as navigation opens in the spring of 1876; and both contracts are to be completed on the first day of September, 1876.  
The estimate of quantities required, and by which the bids will be compared, is as follows:—  
**First Contract.**  
1150 tons of 48-inch pipe.  
45 tons of 60-inch pipe.  
52 tons of special castings.  
**Second Contract.**  
2150 tons of 12-inch pipe, class "B."  
530 tons of 8-inch pipe, class "B."  
330 tons of 6-inch pipe, class "B."  
45 tons of special castings.  
Specifications may be obtained and plans seen at the office of the City Engineer, City Hall, Boston.  
The amount of security required will be such sum as may be fixed by the Water Board after the proposals are opened; said sums not to be less than one-fourth nor more than one-half of the amount of the contract.  
The sureties of the bond for the contract must be residents of Massachusetts.  
The Water Board reserves the right to reject any or all bids should it deem it to be for the interest of the City of Boston so to do.  
**L. MILES STANDISH,**  
President Cochituate Water Board.

**CITY OF BOSTON.** Sealed Proposals will be received at the Office of City Architect until TUESDAY, Feb. 15, 1876, at 12 o'clock, M., for furnishing all materials and doing all the labor required to build and complete a Grammar School Building, situated on Ashland Street, near Washington Street, West Roxbury.  
Separate proposals required for Masonry and Carpentry.  
Proposals to be addressed to the undersigned, and indorsed "Proposal for Building Grammar Schoolhouse, Florence District, Ward 23."  
The Committee reserve the right to reject any or all proposals received. For plans and specifications, apply at the office.  
For the Committee,  
**WILLIAM POPE, Chairman.**

**PROVIDENCE COUNTY COURT HOUSE.**  
**PROPOSALS FOR IRON WORK.**  
Sealed proposals for the Iron Work required in building the Providence County Court House will be received at the office of Stone & Carpenter, Architects, No. 63 Westminster Street, until 12 M. of the eighteenth day of February, 1876. Lithographed plans and printed specifications and forms for proposals may be obtained of the Architects.  
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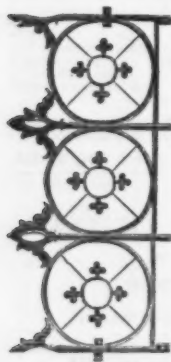
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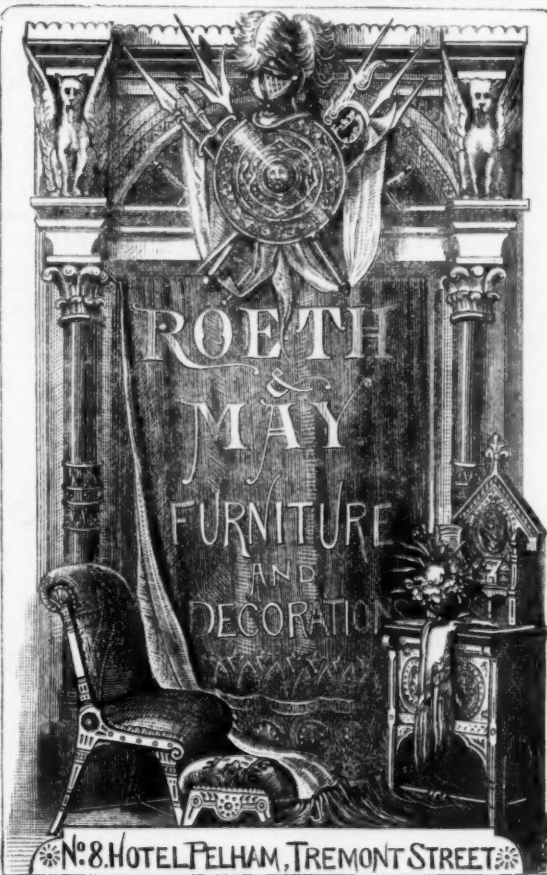
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MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called THE AMERICAN ARCHITECT AND BUILDING NEWS. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

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BOSTON, SATURDAY, MARCH 18, 1876.

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THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

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Proposals to be addressed to the Committee on Public Property, and indorsed "Proposals for Enlarging and Remodelling City Hall Building."  
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“Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the ‘AMERICAN ARCHITECT AND BUILDING NEWS,’ be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end.”

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THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

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Vol. I. No. 14.]

BOSTON, SATURDAY, APRIL 1, 1876.

[PRICE 15 CENTS.]

## PROPOSALS.

### PROPOSALS FOR WROUGHT AND CAST IRON WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANVILLE, IND., OFFICE OF SUPERINTENDENT, March 28, 1876. Sealed proposals will be received at this office until twelve, M., of the seventeenth day of April, 1876, for furnishing, delivering, fitting and putting in place, the Wrought and Cast Iron Work, comprising Holed Iron Beams, &c., in first and second floors, and Cast-Iron Columns, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule. Copies of the drawings, specification, schedule, and form of proposals, and any additional information, may be had on application at this office. J. H. McNEELY, Superintendent.

### PROPOSALS FOR BRICK AND STONE WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANVILLE, IND., OFFICE OF SUPERINTENDENT, April 1, 1876. Sealed proposals will be received at this office until twelve, M., of the twenty-fourth day of April, 1876, for all the brick work and stone work required to complete the United States Court-House and Post-Office, Evansville, Ind., in accordance with the plans and specification. Copies of the drawings, specification, and any additional information, may be had on application at this office. J. H. McNEELY, Superintendent.

**JAIL.**—Plans and specifications for a jail to be built at Troy, Mo., are called for, and to be submitted to the Court in Troy on the 10th of April, 1876. The general plan of said jail to be two stories in height, of brick, with four medium-sized cells in the second story, and two offices in the lower story, one room for insane, and also two rooms for jailer's residence, and the total cost thereof not to exceed \$10,000; the Court to select the plan, and submit the building of said jail in accordance with said plan to competition. WM. A. WOODSON, Clerk of the County Court.

**SCHOOL-HOUSE.**—Sealed proposals will be received by the undersigned at the office of the Township Clerk, until twelve o'clock, noon, of April 17, 1876, for the construction of a brick school-house in Sub-District No. 1. JAMES A. BLACK, GEORGE LONG, OSRO OSBORN, Committee on Buildings. Bedford, N. Y., March 14, 1876.

**SCHOOL-HOUSE.**—Sealed proposals will be received at the office of the Clerk of the Board of Education of Northampton Township, Summit County, O., until twelve o'clock at noon, on the seventeenth day of April, 1876, for building a school-house on the lot situated in Sub-District No. 1, according to the plans and specifications on file in said office. By order of the Board of Education. H. A. PACKARD, Clerk.

**COUNTY POORHOUSE.**—Sealed proposals will be received until Tuesday, the fourth day of April, at twelve o'clock, noon, for the building of an additional Ward to the County Poorhouse building, according to plans and specifications to be seen at the office of the County Auditor, Marion, Ia. By order of the supervisors. JOSEPH WHITNEY, Chairman.

**IRON TRUSS BRIDGE.**—Sealed proposals will be received by the Commissioners of Cass County, Ind., at their office in Logansport, Ind., until twelve o'clock, noon, on the twentieth day of April, 1876, for the erection of a Wrought-Iron Truss Bridge over Eel River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span 110 feet and one span 112 feet extreme lengths, with one roadway 20 feet clear width, and two footways 6 feet clear width each; to have 2-inch oak floor on roadways, and 2-inch pine floors on footways, with all oak joists. The bridge to have iron floor beams and wrought-iron footway fences, with posts secured on floor beams. Capacity of bridge to be 100 lbs. per square foot of roadway, and 60 lbs. per square foot of footways, exclusive of bridge weight. No iron to be strained over 15,000 lbs. per square inch in tension, 8,000 lbs. per square inch in shearing, and 9,000 lbs. per square inch in Gordon's formula for compression strains. Builders must furnish full plans and detailed specifications, giving forms and dimensions of girders, size of each part of the bridge, together with strain sheets, giving weight of bridge with maximum strains under the specified load, and the cross-section of each principal part in square inches. Bids to be made per lineal foot for extreme length of superstructure. Proposals not in accordance with this advertisement will not be considered; and the right is reserved to reject any and all bids. JOHN HYNES, DENNIS UHL, DANIEL FOLESONO, Board of Commissioners, Cass County.

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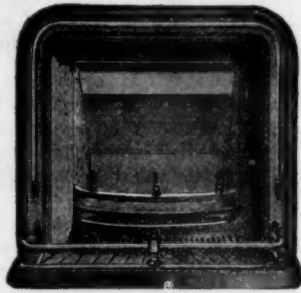
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A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. I. No. 15.]

BOSTON, SATURDAY, APRIL 8, 1876.

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PROPOSALS FOR WROUGHT AND CAST IRON WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND., OFFICE OF SUPERINTENDENT, March 23, 1876. Sealed proposals will be received at this office until twelve, M., of the seventeenth day of April, 1876, for furnishing, delivering, fitting, and putting in place, the Wrought and Cast Iron Work, comprising Rolled Iron Beams, &c., in first and second floors, and Cast-Iron Columns, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule. Copies of the drawings, specification, schedule, and form of proposals, and any additional information, may be had on application at this office. J. H. McNEELY, Superintendent.

PROPOSALS FOR BRICK AND STONE WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND., OFFICE OF SUPERINTENDENT, April 1, 1876. Sealed proposals will be received at this office until twelve, M., of the twenty-fourth day of April, 1876, for all the brick work and stone work required to complete the United States Court-House and Post-Office, Evansville, Ind., in accordance with the plans and specification. Copies of the drawings, specification, and any additional information, may be had on application at this office. J. H. McNEELY, Superintendent.

CITY OF BOSTON.

SEWERS.

Sealed proposals will be received at City Hall till 11, M., on WEDNESDAY, April 12, for building the following Sewers:—

- Boylston Street, 1,500 feet, 24 in. x 18 in., brick.
- Heath and Terrace Streets, 750 ft., 24 in. x 18 in., brick.
- 500 ft., 20 in. x 15 in., "
- 500 ft., 12 in., pipe.
- Rockland Street and Avenue, 1,450 ft., 15 in., pipe.
- 1,450 ft., 12 in., "
- Richmond Street, 250 ft., 12 in., pipe.
- School Street, Charlestown, 140 ft., 12 in., pipe.
- Mason and Avery Streets, 900 ft., 15 in., "
- Spring Park Street, 700 ft., 12 in., "

Plans and Specifications at Sewer Office. The right reserved to reject any proposal. To be indorsed "Proposal for Sewers," and addressed to

CLINTON VILES,

Chairman Committee on Sewers.

NOTICE TO CONTRACTORS. PROPOSALS FOR FURNISHING THE CITY OF BOSTON WITH GRANITE PAVING BLOCKS.

Sealed proposals will be received at the Office of the Superintendent of Streets, City Hall, Boston, until Friday, April 14, 1876, twelve o'clock, M., for supplying the City of Boston with Granite Paving Blocks during the year 1876. The blocks to be equal in quality to the best Cape Ann or Quincy Granite, and of the following dimensions: Width, 3 1/2 to 4 inches; length, 6 to 8 inches; depth, 1 1/2 to 2 inches.

All the edges to be sharp and straight, forming right angles at their intersections both horizontally and vertically. The faces to be straight split, and free from bunches or depressions. Each and every block to be equal, both as regards quality and finish, to the sample on exhibition in the office of the Superintendent of Streets, and to be in every respect satisfactory to the Committee on Paving and the Superintendent of Streets.

Proposals to state the price per thousand blocks delivered on such wharves in the City of Boston as may be designated from time to time by the Superintendent of Streets. Also the number of blocks which the proposer will deliver per month, from the first day of May to the first day of November.

A separate proposal will be received for blocks delivered when required on streets in Roxbury, Dorchester, and West Roxbury.

A sample of the blocks must accompany the proposal. The right is reserved to reject any or all proposals. The successful bidder will be required to furnish bonds with sureties satisfactory to the Committee on Paving for the faithful performance of the contract. Proposals to be indorsed "Proposals for Paving Blocks," and addressed to the CHAIRMAN COMMITTEE ON PAVING.

NOTICE TO CONTRACTORS. PROPOSALS FOR FURNISHING THE CITY OF BOSTON WITH GRANITE EDGESTONES.

Sealed Proposals will be received at the office of the Superintendent of Streets until Friday, April 14, 1876, twelve o'clock, M., for supplying the City of Boston with Granite Edgestones during the year 1876. The stones to be seven inches in width on top, not less than six feet in length, and of uniform depth not less than twenty inches; to be straight lined, without wind, and free from bunches or depressions. To be peen-hammered on top, and three inches on back; the top edges and surface to be true to line and straight edge. The front to be pointed, and the ends square and jointed the entire depth of the stone. Each and every stone to be equal, both as regards quality and finish, to the samples on exhibition in the office of the Superintendent of Streets.

Proposals to state the price per lineal foot, delivered in such streets in the city proper, South Boston, East Boston, Roxbury, Dorchester, West Roxbury, Brighton and Charlestown, as may be designated from time to time by the Superintendent of Streets.

Separate proposals will be received for stones delivered in each of the above sections.

The successful bidder will be required to give bonds with sureties satisfactory to the Committee on Paving for the faithful performance of the contract.

The right is reserved to reject any or all proposals. Proposals to be indorsed "Proposals for Edgestones," and addressed to the CHAIRMAN COMMITTEE ON PAVING.

JAIL.—Plans and specifications for a jail to be built at Troy, Mo. are called for, the same to be submitted to the Court in Troy on the 10th of April, 1876. The general plan of said jail to be two stories in height, of brick, with four medium-sized cells in the second story, and two offices in the lower story, one room for insane, and also two rooms for jailer's residence, and the total cost thereof not to exceed \$10,000; the Court to select the plan, and submit the building of said jail in accordance with said plan to competition. WM. A. WOODSON, Clerk of the County Court.

PROPOSALS.

NEW YORK BOARD OF EDUCATION.

Sealed proposals will be received by the Committee on Colored Schools, at the Hall of the Board of Education, corner of Grand and Elm Streets, until MONDAY, the seventeenth day of April next, and until 4 o'clock P.M. on said day for the erection of an outside iron stairway in Colored Grammar School No. 2, on South Fifth Avenue, near Broome Street.

Plans and specifications may be seen at the office of the Superintendent of School Buildings, No. 146 Grand Street, third floor.

Two responsible and approved sureties, residents of this City, will be required from the successful bidder. Proposals will not be considered unless sureties are named. The Committee reserves the right to reject any or all of the proposals submitted.

ALBERT KLAMROTH, WILLIAM DOWD, HENRY P. WEST, DAVID WETMORE, ERNEST CAYLUS, Committee on Colored Schools. Dated New York, March 30, 1876.

MASONRY AND IRON WORK.—Proposals will be received by the Board of Commissioners of Monroe County, Ind., at the Auditor's office, until one o'clock, Wednesday, April 26, 1876, for the building of stone abutments for bridge, and iron fence around the court house square. Plans and specifications can be seen at the Auditor's office. Cash payments.

JAMES F. MANLEY, Auditor Monroe County, Ind.

IRON WORK.—Proposals will be received by the undersigned at Morrison, up to 12 o'clock, M., on Thursday, the 20th day of April, 1876, for the construction of 14 iron cells in the Whiteside County (Illinois) Jail, including iron floors, platforms, corridors, gratings, doors, and locks and other fixtures, in accordance with plans and specifications now on file in the County Clerk's office. By order of special committee.

E. W. PAYNE, County Committee.

SCHOOL-HOUSE.—Sealed proposals will be received by the undersigned at the office of the Township Clerk, until twelve o'clock, noon, of April 11, 1876, for the construction of a brick school-house in Sub-District No. 1. JAMES A. BLACK, GEORGE LONG, OSRO OSBORN, Committee on Buildings. Bedford, Ohio, March 13, 1876.

SCHOOL-HOUSE.—Sealed proposals will be received at the office of the Clerk of the Board of Education of Northampton Township, Summit County, O., until twelve o'clock at noon, on the seventeenth day of April, 1876, for building a school-house on the lot situated in Sub-District No. 1, according to the plans and specifications on file in said office.

By order of the Board of Education. H. A. PACKARD, Clerk.

IRON TRUSS BRIDGE.—Sealed proposals will be received by the Commissioners of Cass County, Ind., at their office in Logansport, Ind., until twelve o'clock, noon, on the twentieth day of April, 1876, for the erection of a Wrought-Iron Truss Bridge over Eel River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span 110 feet and one span 112 feet extreme lengths, with one roadway 20 feet clear width, and two footways 6 feet clear width each; to have 2-inch oak floor on roadways, and 1-inch pine floors on footways, with all oak joists. The bridge to have iron floor beams and wrought-iron footway fences, with posts secured on floor beams. Capacity of bridge to be 100 lbs. per square foot of roadway, and 60 lbs. per square foot of footways, exclusive of bridge weight. No iron to be strained over 12,000 lbs. per square inch in tension, 8,000 lbs. per square inch in shearing, and 9,000 lbs. per square inch in Gordon's formula for compression strains. Builders must furnish full plans and detailed specifications, giving forms and dimensions of girders, size of each part of the bridge, together with strain sheets, giving weight of bridge with maximum strains under the specified load, and the cross-section of each principal part in square inches. Bids to be made per lineal foot for extreme length of superstructure. Proposals not in accordance with this advertisement will not be considered; and the right is reserved to reject any and all bids.

JOHN HYNES, DENNIS UHL, DANIEL FOGLESONG, Board of Commissioners, Cass County.

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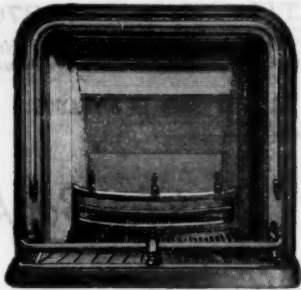
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#### PROPOSALS.

FOR OTHER PROPOSALS SEE SECOND PAGE.

#### PROPOSALS FOR BRICK AND STONE

WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND.

OFFICE OF SUPERINTENDENT, April 1, 1876.

Sealed proposals will be received at this office until

twelve, M., of the twenty-fourth day of April, 1876, for all

the brick work and stone work required to complete the

United States Court-House and Post-Office, Evansville,

Ind., in accordance with the plans and specification.

Copies of the drawings, specification, and any additional

information, may be had on application at this office.

J. H. McNEELY, Superintendent.



PROPOSALS.

PROPOSALS FOR WROUGHT AND CAST IRON WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND., OFFICE OF SUPERINTENDENT, March 23, 1876. Sealed proposals will be received at this office until twelve, M., of the seventeenth day of April, 1876, for furnishing, delivering, fitting, and putting in place, the Wrought and Cast Iron Work, comprising Rolled Iron Beams, &c., in first and second floors, and Cast-Iron Columns, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule. Copies of the drawings, specification, schedule, and form of proposals, and any additional information, may be had on application at this office.

J. H. McNEELY, Superintendent.

ROOFING. — Notice is hereby given that the State House Commissioners will receive proposals to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome.

Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation. Each proposal must be accompanied by a good and sufficient bond, with two or more responsible sureties to the State of Illinois, in the penal sum of \$2,000, conditioned that the principal therein will, when thereto requested by said Commissioners, enter into a contract with the State of Illinois, with a good and sufficient bond, to be approved by said Commissioners, to do the work as proposed. Provided, That a contract be awarded to him by the Commissioners on his proposal.

The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in part, or to receive any bid, the whole or in part, if they shall deem it necessary to secure the interest of the State.

The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. Piquenard, Esq., Acting Architect, in the new State House.

All "proposals" must be sealed and indorsed, "New State House proposals," and addressed to Jacob Bunn, President, and delivered at the office of the Secretary of the Board, in the new State House, Springfield, Ill., prior to 12 o'clock, noon, May 4, 1876, at which time and place all such proposals received will be acted.

A. H. PIQUENARD, Acting Architect. JACOB BUNN, JOHN T. STUART, JAS. H. BEVERIDGE, Commissioners.

Springfield, Ill., April 3, 1876.

NEW YORK BOARD OF EDUCATION.

Sealed proposals will be received by the School Trustees of the Twelfth Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until Monday, the seventeenth day of April, 1876, and until four o'clock P.M. on said day, for enlarging and altering Grammar School-house No. 37, on Eighty-seventh Street, near Fourth Ave.

Plans and specifications may be seen, and blanks for proposals obtained at the office of the Superintendent of School Buildings, No. 146 Grand Street, third floor.

Proposals must state the estimate for each branch of the work separately, and be indorsed, "Proposal for Mason Work," "Proposal for Carpenter Work," "Proposal for Painting," "Proposal for Heating," "Proposal for Furnishing."

Two responsible and approved sureties, residents of this City, will be required from each successful bidder. Proposals will not be considered unless such are named.

The Trustees reserve the right to reject any or all of the proposals submitted. GRANVILLE S. P. JAWES, ANDREW SMITH, DAVID H. KNAPP, CHARLES CRARY, JOHN L. TONNELE, Board of School Trustees, Twelfth Ward. Dated NEW YORK, April 2, 1876.

BRIDGE.

COMMISSIONERS' OFFICE, CINCINNATI.

Proposals will be received at this office until Saturday, April 29, 1876, at twelve o'clock, M., for masonry for a bridge across Dry Fork of Whitewater on the new county road leading from New Haven to Venice in Crosby township. Specifications can be seen at this office. Also for a superstructure at the same place, wood or iron, a hundred and forty feet clear span and eighteen feet clear roadway. Also for taking down, removing, and rebuilding superstructure on new abutments. Payments will be made in Hamilton County Bonds bearing interest at seven per cent.

JOSEPH B. HUMPHREY, Auditor.

ROOFING.—The State House Commissioners

will receive proposals until noon of May 4, 1876, to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome. Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation. The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. PIQUENARD, Acting Architect, in the new State House. JACOB BUNN, JOHN T. STUART, JAMES H. BEVERIDGE, Commissioners. SPRINGFIELD, ILL., April 2, 1876.

VENTILATION.—Proposals will be received

until 12 M., on the 20th day of April, — last, for ventilating the present cells in the Penitentiary, at a cost not exceeding \$1,500 for work, labor, material, &c., according to the plans and specifications submitted by H. P. McDonald, Architect, on file with the Commissioners of the Sinking Fund; 2d, for plans and specifications for building additional cells on the Penitentiary grounds, according to an appropriation twenty-five thousand dollars therefor. Plans and specifications may be examined at any time prior to the award at the Executive office, Frankfort, Ky. Address D. HOWARD SMITH, Secretary.

ENGINE HOUSE.—Sealed proposals for

building a brick engine-house for the Newton Water Works, at Newton Upper Falls, will be received at the office of the Water Commissioners in Cole's Block, Newton, until noon of Wednesday, April 19. Drawings and specifications may be examined at said office. The Commissioners reserve the right to reject any and all proposals.

LEAD PIPE.

ST. LAWRENCE HALL.

W. W. COMMISSIONERS' OFFICE, TORONTO, APRIL 1, 1876.

Tenders will be received at this office until Monday, April 10, 1876, at 10 o'clock P.M., for 100 tons of lead pipe, best soft English pig, as follows: 1/2 inch, 45 tons; 3/4 inch, 32 tons; 1 inch, 6 tons; 1 1/4 inch, 4 tons. Specifications may be seen, and any information obtained, upon application at the office of the Chief Engineer, P. A. Peterson. JOHN BOYD, Secretary.

PROPOSALS.

SCHOOLHOUSE.—Proposals will be received

for me for the building of a schoolhouse in York Township, Tama County, Iowa, until Monday, May 1. The specifications can be seen at my office one half mile west of Bolman. AMOS ROGERS, Irving, Iowa, Sec. of School District.

SCHOOLHOUSE.—There will be offered

for sale on Saturday, the twenty-second day of April, to the lowest responsible bidder, the contract for the erection of a schoolhouse in Sub-District No. 3 (Fairview) in the district township of Squaw, Warren County, Iowa. Sale to begin at two o'clock sharp. Plans and specifications can be seen at the office of the county superintendent, and at the residence of Samuel Gregg, in District No. 3. The foundation will be sold separate. By order of the Board of Sub-directors. SAMUEL GREGG, President.

SCHOOLHOUSE.—Proposals will be received

until Saturday, April 22, at the office of the Secretary of Independent School District of Center Junction, Jones County, Iowa, for building and completing a schoolhouse in said district. Plans and specifications can be seen at the office of the Secretary at Center Junction. J. C. HOUSER, Secretary, Center Junction.

SCHOOLHOUSE.—Proposals will be received

until the 1st of May by the Secretary of Laurel Hill Independent School District, Greentield township (P. O. address Martelle), for building and completing a schoolhouse in said district. Plans and specifications can be seen at the Eureka office, Anamosa, Iowa, and at Dr. Belden's store, Martelle. S. C. KEMP, Secretary.

MARTELLE, March 29, 1876.

SCHOOLHOUSE.—Proposals for the erection

of a schoolhouse in the Independent District of Flint River Township, County of Des Moines, State of Iowa, will be received by the undersigned at his residence, in said school district, until the twenty-ninth day of April, at one o'clock P. M. JOHN H. SUDBRACK, Sec. of the Board of Directors.

SCHOOLHOUSE.—Proposals for the erection

of a schoolhouse in Sub-district No. 10, in the District Township of Beaver, County of Butler, and State of Iowa, will be received by the undersigned at his residence, in said township, where plans and specifications may be seen until Saturday, April 22, at 1 o'clock P. M. P. WOOD, Sub-director.

GAS PIPE.

OFFICE WHEELING GAS WORKS, April 1, 1876.

Sealed proposals for furnishing and delivering in Wheeling gas pipe and special castings will be received at this office up to April 13, 1876, at five o'clock, P. M. All bids for furnishing pipe to specify the weights and thickness, and must be bid for by the foot, the pipe to be cast vertically and to be of uniform thickness and weight. Bids for special castings to be made by the ton. Specifications for same will be furnished at this office, and all bids must state the time of delivery of all the pipe and other castings proposed to be furnished. All materials furnished to be paid for in cash upon the completion of the contract, trustees reserving the right to reject any and all bids. The pipe to be furnished is to be No. 1, cast iron gas pipe, and is to be of the size and quantities following: viz., 5,000 feet of 8-inch cast iron gas pipe; 5,000 feet of 6-inch; 18,000 feet 4-inch; 2,000 3-inch. By order of the board of trustees. L. L. MAXWELL, Secretary Board of Trustees.

IRON-TRUSSED BRIDGE.

CITY COMMISSIONERS' OFFICE, BALTIMORE.

Proposals, plans, and specifications will be received at this office until Thursday, April 27, at 12 M., for furnishing the materials for and construction of an iron-trussed bridge over Jones Falls on the line of John Street. The bridge to be composed of 4 trusses. The outside lines to be 8 feet from center line of truss to the line of sidewalk; the intermediate lines to be 16 feet, 8 inches, from center to center. The horizontal bracing to consist of cross struts and diagonal rods at top and bottom cords. Length between masonry, 136 feet; depth of truss, 18 feet; width of roadway, 40 feet; width of sidewalks (each), 15 feet; whole width of bridge from out to out, 66 feet. For full particulars see Baltimore Gazette, April 1. N. B.—Ordinance 43, of March, 1875, provided that it shall be inserted in the contract and to be part thereof, to be secured by the bond given, that the contractor shall have the work for said bridges done at the city of Baltimore, by mechanics and workmen who are citizens of Baltimore City, and the work to be done, and all the materials that can be furnished by Baltimore contractors. JOHN E. TOOLE, Clerk to City Commissioners.

SCHOOLHOUSE.—Sealed proposals will

be received at the office of the Clerk of the Board of Education of Northampton Township, Summit County, O., until twelve o'clock at noon, on the seventeenth day of April, 1876, for building a schoolhouse on the lot situated in Sub-District No. 1, according to the plans and specifications on file in said office. By order of the Board of Education. H. A. PACKARD, Clerk.

IRON TRUSS BRIDGE.—Sealed proposals

will be received by the Commissioners of Cass County, Ind., at their office in Logansport, Ind., until twelve o'clock, noon, on the twentieth day of April, 1876, for the erection of a Wrought-Iron Truss Bridge over Eel River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span 110 feet and one span 112 feet extreme lengths, with one roadway 20 feet clear width, and two footways 6 feet clear width each; to have 3-inch oak floor on roadways, and 1-inch pine floors on footways, with a oak joists. The bridge to have iron floor beams and wrought-iron footway fences, with posts secured on floor beams. Capacity of bridge to be 100 lbs. per square foot of roadway, and 60 lbs. per square foot of footways, exclusive of bridge weight. No iron to be strained over 15,000 lbs. per square inch in tension, 8,000 lbs. per square inch in shearing, and 6,000 lbs. per square inch in Gordon's formula for compression strains. Builders must furnish full plans and detailed specifications, giving forces and dimensions of girders, size of each part of the bridge, together with strain sheets, giving weight of bridge with maximum strains under the specified load, and the cross-section of each principal part in square inches. Bids to be made on lined foot for extreme length of superstructure. Proposals not in accordance with this advertisement will not be considered; and the right is reserved to reject any and all bids. JOHN HYNES, DENNIS UHL, DANIEL FOGLESONG, Board of Commissioners, Cass County.

MASONRY AND IRON WORK.—Pro

posals will be received by the Board of Commissioners of Monroe County, Ind., at the Auditor's office, until one o'clock, Wednesday, April 26, 1876, for the building of stone abutments for bridge, and iron fence around the court house square. Plans and specifications can be seen at the Auditor's office. Cash payments. JAMES F. MANLEY, Auditor Monroe County, Ind.

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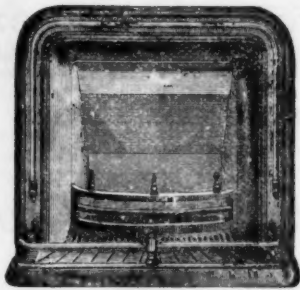
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### PROPOSALS.

FOR OTHER PROPOSALS SEE SECOND PAGE.

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OFFICE OF SUPERINTENDENT, April 1, 1876.

Sealed proposals will be received at this office until

twelve M. of the twenty-fourth day of April, 1876, for all

the brick work and stone work required to complete the

United States Court-House and Post-Office, Evansville,

Ind., in accordance with the plans and specification.

Copies of the drawings, specification, and any additional

information, may be had on application at this office.

J. H. MCNEELY, Superintendent.



PROPOSALS.

COURT HOUSE AND JAIL.

OFFICE OF THE BOARD OF CO. COMMISSIONERS, SWEETWATER CO., GREEN RIVER, WYO. March 31, 1876.  
Sealed proposals will be received by the County Commissioners of Sweetwater Co., Wyo. Ter., at the County Clerk's office, Green River City, up to one o'clock, P.M., May 15, for the furnishing of material and building of a Court House and Jail at Green River City, according to the plans and specifications which can be seen at the County Clerk's office, Green River City, Wyo. Ter. Bonds will be required in double the amount for the faithful performance of the contract. Commissioners reserve the right to reject any or all bids.  
W. P. NOBLE, Chairman.  
A. MCINTOSH, Clerk.

**COURT HOUSE.**—Tenders are invited for the building of a Court House in the City of Peoria, for the county of Peoria. Plans and specifications are on file in the office of the County Clerk at Peoria. Proposals must be submitted at or before two o'clock in the afternoon of Thursday, twenty-seventh day of April, and must be enclosed within the printed specifications, in an envelope sealed and directed to Jno. A. McCoy, Chairman of the Board of Supervisors, Peoria, Ill., and marked, "Proposals for Building Peoria County Court House," with the name of the bidder on the envelope. Plans and specifications may also be seen at the office of Wilcox & Miller, Architects of the building, 112 and 114 Randolph Street, Chicago. The bids will be opened before the Board of Supervisors on Thursday, April 27, at two o'clock, P.M., to which bidders are invited. The Board of Supervisors reserve the right to reject any or all proposals. Jno. A. McCoy, Chairman Building Committee.

**BRICK CHURCH.**—Sealed proposals for building a brick church and vestry for the Congregational Society of Pittsfield, N.H., will be received at the office of the Pittsfield Savings Bank in Pittsfield. Drawings and specifications may be examined at the office of A. L. Davies, Esq., in Manchester, N.H., until noon of Tuesday, April 25, 1876, afterwards until noon of Wednesday, May 3, 1876, at the office of Pittsfield Savings Bank. The committee reserve the right to reject any and all proposals.  
W. H. BERRY, for the Committee.  
PITTSFIELD, N.H., April 17, 1876.

**SCHOOLHOUSE.**—Proposals for the erection of a schoolhouse in Sub-District No. 2, and one schoolhouse in Sub-District No. 6, in the township of Cedar, in the County of Mitchell, and State of Iowa, will be received by James Temple, in Sub-District No. 2, and Ole O. Hangerud, in Sub-District No. 6, until 1 o'clock P.M. on Saturday, the sixth day of May. Plans and specifications will be seen at James Temple's and Ole O. Hangerud, at Osage, Io. By order of the Board of directors.

**ROOFING.**—Notice is hereby given that the State House Commissioners will receive proposals to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome. Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation. Each proposal must be accompanied by a good and sufficient bond, with two or more responsible sureties to the State of Illinois, in the penal sum of \$2,000, conditioned that the principal therein will, when thereto requested by said Commissioners, enter into a contract with the State of Illinois, with a good and sufficient bond, to be approved by said Commissioners, to do the work as proposed: Provided, That a contract be awarded to him by the Commissioners on his proposal. The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in part, or to receive any bid, the whole or in part, if they shall deem it necessary to secure the interest of the State. The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. Fiquenard, Esq., Acting Architect, in the new State House. All "proposals" must be sealed and indorsed, "New State House proposals," and addressed to Jacob Bunn, President, and delivered at the office of the Secretary of the Board, in the new State House, Springfield, Ill., prior to 12 o'clock, noon, May 4, 1876, at which time and place all such proposals received will be opened.  
A. H. FIQUENARD, Acting Architect.  
JACOB BUNN,  
JOHN T. STUART,  
JAS. H. BEVERIDGE,  
Commissioners.

**BRIDGE.** COMMISSIONERS' OFFICE, CINCINNATI, HAMILTON COUNTY, O. O.  
Proposals will be received at this office until Saturday, April 29, 1876, at twelve o'clock, M., for masonry for a bridge across Dry Fork of Whitewater on the new county road leading from New Haven to Venice in Crosby township. Specifications can be seen at this office. Also for a superstructure at the same place, wood or iron, a hundred and forty feet clear span and eighteen feet clear roadway. Also for taking down, removing, and rebuilding superstructure on new abutments. Payments will be made in Hamilton County Bonds bearing interest at seven per cent.  
JOSEPH B. HUMPHREY, Auditor.

**ROOFING.**—The State House Commissioners will receive proposals until noon of May 4, 1876, to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome. Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation. The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. Fiquenard, Acting Architect, in the new State House. JACOB BUNN, JOHN T. STUART, JAMES H. BEVERIDGE, Commissioners.  
SPRINGFIELD, ILL., April 3, 1876.

**SCHOOLHOUSE.**—Proposals will be received by me for the building of a schoolhouse in York Township, Tama County, Iowa, until Monday, May 1. The specifications can be seen at my office one half mile west of Rodman.  
AMOS ROGERS, Irving, Iowa, Sec. of School District.

**SCHOOLHOUSE.**—Proposals will be received until the 1st of May by the Secretary of Laurel Hill Independent School District, Greenfield township (F. O. address, Martelle), in completing a schoolhouse in said district. Plans and specifications can be seen at the Eureka office, Anamosa, Iowa, and at Dr. Belden's store, Martelle.  
S. C. KEMP, Secretary.  
MARTELL, March 26, 1876.

PROPOSALS.

IRON-TRUSSED BRIDGE.

CITY COMMISSIONERS' OFFICE, BALTIMORE, MARCH 20, 1876.  
Proposals, plans, and specifications will be received at this office until Thursday, April 27, at 12 M., for furnishing the materials for and construction of an iron-trussed bridge over Jones Falls on the line of John Street. The bridge to be composed of 4 trusses. The outside line to be 8 feet from centre of truss to the line of sidewalk; the intermediate lines to be 16 feet, 8 inches, from centre to centre. The horizontal bracing to consist of cross struts and diagonal rods at top and bottom cords. Length between masonry, 136 feet; depth of truss, 18 feet; width of roadway, 40 feet; width of sidewalks (each), 13 feet; whole width of bridge from out to out, 66 feet. For full particulars see Baltimore Gazette, April 1. N.B.—Ordinance 43, of March, 1875, provides that it shall be inserted in the contract and to be part thereof, to be secured by the bond given, that the contractor shall have the work for said bridges done at the city of Baltimore, by mechanics and workmen who are citizens of Baltimore City, and the work to be done, and all the materials that can be furnished by Baltimore contractors.  
JOHN E. TOOLE, Clerk to City Commissioners.

**IRON TRUSS BRIDGE.**—Sealed proposals will be received by the Commissioners of Cass County, Ind., at their office in Logansport, Ind., until twelve o'clock, noon, on the twentieth day of April, 1876, for the erection of a Wrought-Iron Truss Bridge over Eel River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span 110 feet and one span 112 feet extreme lengths, with one roadway 20 feet clear width, and two footways 6 feet clear width each; to have 3-inch oak floor on roadways, and 2-inch pine floors on footways, with oak joists. The bridge to have iron floor beams and wrought-iron footway fences, with posts secured on floor beams. Capacity of bridge to be 100 lbs. per square foot of roadway, and 60 lbs. per square foot of footways, exclusive of bridge weight. No iron to be strained over 13,900 lbs. per square inch in tension, 8,000 lbs. per square inch in shearing, and 9,000 lbs. per square inch in Gordon's formula for compression strains. Builders must furnish full plans and detailed specifications, giving forms and dimensions of girders, size of each part of the bridge, together with strain sheets, giving weight of bridge with maximum strains under the specified load, and the cross-section of each principal part in square inches. Bids to be made per lineal foot for extreme length of superstructure. Proposals not in accordance with this advertisement will not be considered, and the right is reserved to reject any and all bids.  
JOHN HYNES, DENNIS UHL, DANIEL FOGLESONG,  
Board of Commissioners, Cass County.

**MASONRY AND IRON WORK.**—Proposals will be received by the Board of Commissioners of Monroe County, Ind., at the Auditor's office, until one o'clock, Wednesday, April 26, 1876, for the building of stone abutments for bridge, and iron fence around the court house square. Plans and specifications can be seen at the Auditor's office. Cash payments.  
JAMES F. MANLEY, Auditor Monroe County, Ind.

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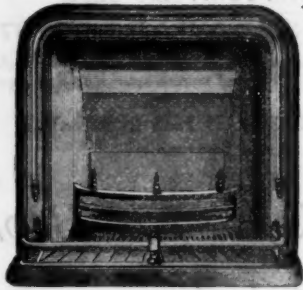
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PROPOSALS.

GRANITE CURBING.

CITY OF BOSTON, CITY HALL, April 20, 1876.  
**PROPOSALS FOR GRANITE CURBING.**—Notice is hereby given, that sealed proposals will be received at the office of the Clerk of Committees, City Hall, Boston, until Wednesday, May 3, 1876, at 12 o'clock, noon, for furnishing and setting 3,600 feet, more or less, of Granite Curbing around the squares on Commonwealth Avenue, from Fairfield Street to Parker Street.  
 The curb to be of the same form, and set in the same manner, as the curb around the square between Exeter and Fairfield Streets.  
 For further particulars apply to the Superintendent of Common and Public Grounds.  
 The right to reject any or all proposals is hereby reserved.  
 Proposals must be addressed to the undersigned, and marked, "Proposals for Granite Curbing."  
 JOHN T. CLARK,  
 Chairman Committee on Common and Public Grounds.

N. Y. BOARD OF EDUCATION. — En-

larging Grammar School House. Sealed proposals will be received by the School Trustees of the Twenty-third Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until MONDAY, the first day of May, 1876, and until 4 o'clock P.M. on said day, for enlarging Grammar School House No. 61, on Third Avenue, near 10th Street.  
 Plans and specifications may be seen, and blanks for proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand Street, third floor.  
 Proposals must state the estimate for each branch of the work separately, and be indorsed "Proposal for Mason Work," "Proposal for Carpenter Work," "Proposal for Painting," "Proposal for Heating," "Proposal for Furniture."  
 Two responsible and approved sureties, residents of this city, will be required from each successful bidder. Proposals will not be considered unless sureties are named.  
 The Trustees reserve the right to reject any or all of the proposals submitted.  
 NATHAN S. KING, WILLIAM HOGG, ALONZO CARR, JOHN L. BURNETT, GEORGE C. MANNER,  
 Board of School Trustees, Twenty-third Ward.  
 NEW YORK, April 12, 1876.

N. Y. BOARD OF EDUCATION. — School

Furniture. Sealed proposals will be received by the School Trustees of the Twenty-second Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until TUESDAY, May 2, 1876, and until 4 o'clock P.M. on said day, for the desks, seats, and other furniture required for the new schoolhouse on West Fifty-fourth Street, between Sixth and Seventh Avenues.  
 Sealed proposals will also be received at the same time and place, for the steam-heating apparatus for said school.  
 Plans and specifications may be seen at the office of the Superintendent of School Buildings, and the Engineer, No. 146 Grand Street, third floor.  
 Two responsible and approved sureties, residents of this city, will be required from each successful bidder. Proposals will not be considered unless sureties are named.  
 The Trustees reserve the right to reject any or all of the proposals submitted.  
 JAMES R. CUMING, ADNA H. UNDERHILL, WALTER CARTER, JOHN MORGAN, JOEL W. HANSON,  
 Board of School Trustees, 22d Wad.  
 NEW YORK, April 18, 1876.

NEW YORK BOARD OF EDUCATION. —

SCHOOL FURNITURE. Sealed proposals will be received by the School Trustees of the Seventh Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until Tuesday, May 2, 1876, and until half-past three o'clock P.M. on said day, for the desks, seats, and other furniture required for Grammar School No. 36, on Ninth Street, near Avenue C.  
 Sealed proposals will also be received at the same time and place, for the steam heating apparatus for said school.  
 Plans and specifications may be seen at the office of the Superintendent of School Buildings and the Engineer, No. 146 Grand Street, third floor.  
 Two responsible and approved sureties, residents of this city, will be required from each successful bidder; proposals will not be considered unless sureties are named.  
 The Trustees reserve the right to reject any or all of the proposals submitted.  
 GEORGE H. BROADS, JOSEPH WANGLER, SAMUEL CREGAL, M.D., EDWARD MIEHLING, JOHN C. LIMBECK,  
 Board of School Trustees, Eleventh Ward.  
 NEW YORK, April 18, 1876.

CHURCH. — Proposals will be received at

the German Lutheran Parsonage, No. 213 High Street, Altona, O., until 12 o'clock, May 8, 1876, for furnishing material and constructing a church edifice, complete in all respects in accordance with the plans and specifications. Plans and specifications may be seen and instructions given at the office of Mr. Frank Lukeah, in Cramer & May's Block, on and after April 17, 1876.  
 W. HAGEMANN, G. HAAS, F. MANTHEY, Trustees of German Lutheran Church.

JAIL. — Bids will be received at Troy by

Wm. A. Woodson, clerk of the County Court of Lincoln County, Mo., for building a Jail, according to plans and specifications on file in his office, until and including May 8, 1876. Each bidder to present at said time, or before, a certified check, payable to the order of C. W. Martin, presiding justice of said court, in the sum of \$100; all checks to be returned except that of the successful bidder, and his check also to be returned if he enters into bond within fifteen days with approved security, in the sum of \$15,000, for the faithful execution of the contract, according to said plans and specifications; otherwise to be forfeited. The contract is to be awarded to the lowest and best bidder, the court reserving the right to reject any and all bids.

OLD IRON. — Tenders are invited by the

Grand Trunk Railway for the purchase of Old Iron Rails, delivered as follows: about 7,000 tons at Toronto, Sarnia, Detroit Junction, or Buffalo; about 1,000 tons at Montreal or Point Levi (opposite Quebec); about 2,000 tons at Portland. The company has wharfage accommodation for shipment by water at Toronto, Sarnia, and Portland; and deliveries would be made commencing in May, and extending through the summer. Offers, stating the price per ton (of 2,240 lbs.) and the place of delivery, will be received by the undersigned at Montreal, Can., up to the 15th of May.  
 JOSEPH HICKSON, general Manager.

SCHOOLHOUSE. — Proposals will be re-

ceived until the 1st of May by the Secretary of Laurel Hill Independent School District, Greenfield township (P. O. address Martelle), for building and completing a schoolhouse in said district. Plans and specifications can be seen at the Eureka office, Anamosa, Iowa, and at Dr. Beiden's store, Martelle.  
 S. C. KEMP, Secretary.  
 MARTELLE, March 20, 1876.

PROPOSALS.

ROOFING. — Notice is hereby given that

the State House Commissioners will receive proposals to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome.  
 Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation.  
 Each proposal must be accompanied by a good and sufficient bond, with two or more responsible sureties to the State of Illinois, in the penal sum of \$2,000, conditioned that the principal therein will, when thereto requested by said Commissioners, enter into a contract with the State of Illinois, with a good and sufficient bond, to be approved by said Commissioners, to do the work as proposed. Provided, That a contract be awarded to him by the Commissioners on his proposal.  
 The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in part, or to receive any bid, the whole or in part, if they shall deem it necessary to secure the interest of the State.  
 The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. Piquenard, Esq., Acting Architect, in the new State House.  
 All "proposals" must be sealed and indorsed, "New State House proposals," and addressed to Jacob Bunn, President, and delivered at the office of the Secretary of the Board, in the new State House, Springfield, Ill., prior to 12 o'clock, noon, May 4, 1876, at which time and place all such proposals received will be opened.  
 A. H. PIQUENARD, Acting Architect.  
 JACOB BUNN,  
 JOHN T. STUART,  
 JAS. H. BEVERIDGE,  
 Commissioners.

Springfield, Ill., April 3, 1876.

SCHOOLHOUSE. — Proposals for the erec-

tion of a schoolhouse in Sub-District No. 2, and one schoolhouse in Sub-District No. 6, in the township of Cedar, in the County of Mitchell, and State of Iowa, will be received by James Temple, in Sub-District No. 2, and Ole O. Haugerud, in Sub-District No. 6, until 1 o'clock P.M. on Saturday, the sixth day of May. Plans and specifications will be seen at James Temple's and Ole O. Haugerud's, at Osage, Ia. By order of the Board of Directors.  
 AMOS ROGERS, Irving, Iowa, Sec. of School District.

Springfield, Ill., April 3, 1876.

SCHOOLHOUSE. — Proposals will be re-

ceived by me for the building of a schoolhouse in York Township, Tama County, Iowa, until Monday, May 1. The specifications can be seen at my office one half mile west of Rodman.  
 AMOS ROGERS, Irving, Iowa, Sec. of School District.

ROOFING. — The State House Commissioners

will receive proposals until noon of May 4, 1876, to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome. Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation. The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. Piquenard, Acting Architect, in the new State House. JACOB BUNN, JOHN T. STUART, JAMES H. BEVERIDGE, Commissioners.  
 SPRINGFIELD, ILL., April 2, 1876.

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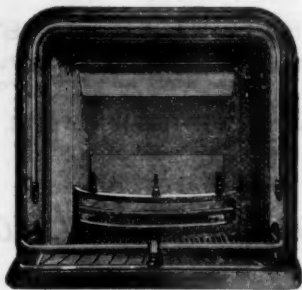
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Proposals will be received by the Commissioners of Construction of the Central Ohio Hospital for Insane, until 12 o'clock, noon, Thursday, May 11, 1876, for the Gas Fixtures for the entire building, and Locks, Bolts, and Latches, for eight wings of Asylum building. Plans, specifications, and blanks are now on file at the office of the Architect upon the Asylum grounds, for the inspection of bidders. All bids must be sealed, and directed to Geo. W. Many-penny, Esq., President of the Board of Commissioners, Columbus, Ohio, and indorsed "Proposals for Gas Fixtures," or "Proposals for Locks, etc.," as the case may be, and left at the office of the Architect. By order of the Board. T. R. TINSLEY, Architect, Columbus, Ohio.

IRON LIGHTHOUSE. Proposals in duplicate will be received at the office of the Lighthouse Engineer, Fourth District, No. 532 Walnut St., Philadelphia, until 12 o'clock, M., Monday, May 15, 1876, from Iron Manufacturers only, for furnishing all the metal work of superstructure, and for the erection of the same, of two Light-houses, to be known as Liston's Tree Range Lights, Delaware Bay. The right to reject any or all proposals, or to waive defects, if it is deemed for the interest of the United States to do so is reserved. Drawings and specifications furnished on application at this office. By order of the Lighthouse Board. W. F. RAYNOLDS, Brevet Brigadier General, Engineer Fourth Lighthouse District.

SCHOOLHOUSE. Proposals will be received by the Board of Directors of the Independent School District of the city of Burlington, Iowa, for the erection of a two-story addition to the "West Madison" School House, until 9 o'clock, A. M., of May 20, 1876, according to plans and specifications which will be ready for inspection at the office of the Secretary, in Parson's Block, on and after April 25. Separate bids will also be received for window blinds for the whole building. All bids must be signed by the party proposing to do the work, securely sealed, and indorsed, "Proposals for erecting West Madison Addition," or "Proposals for Blinds," and delivered to the Secretary before the hour above fixed. By order of the Board. GEO. FRAZEE, Secretary.

CHURCH.—Proposals will be received at the German Lutheran Parsonage, No. 213 High Street, Akron, O., until 12 M., May 8, 1876, for furnishing material and constructing a church edifice, complete in all respects in accordance with the plans and specifications. Plans and specifications may be seen and instructions given at the office of Mr. Frank Lukash, in Cramer & May's Block, on and after April 17, 1876.  
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JAIL.—Bids will be received at Troy by Wm. A. Woodson, clerk of the County Court of Lincoln County, Mo., for building a Jail, according to plans and specifications on file in his office, until and including May 8, 1876. Each bidder to present at said time, or before, a certified check, payable to the order of C. W. Martin, presiding justice of said court, in the sum of \$100; all checks to be returned except that of the successful bidder, and his check also to be returned if he enters into bond within fifteen days with approved security, in the sum of \$15,000, for the faithful execution of the contract, according to said plans and specifications; otherwise to be forfeited. The contract is to be awarded to the lowest and best bidder, the court reserving the right to reject any and all bids.

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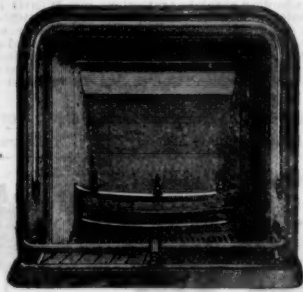
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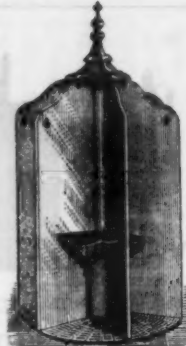
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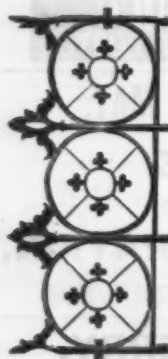
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Sealed proposals will be received at this office until 12 M., of the 14th day of May, 1876, for furnishing, delivering, fitting, and putting in place the Wrought and Cast Iron Work, comprising Rolled Beams, &c., in First and Second Floors, and Cast-Iron Columns, Pilasters, &c., of First Story, all as exhibited on the drawings described in the specification, and called for in the schedule.

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IRON LIGHTHOUSE. Proposals in duplicate will be received at the office of the Lighthouse Engineer, Fourth District, No. 12 Water Street, Boston, until 12 o'clock, M., Monday, May 15, 1876, from Iron Manufacturers only, for furnishing all the metal work of superstructure, and for the erection of the same, of two Lighthouses, to be known as Liston's Tree Range Lights, Delaware Bay. The right to reject any or all proposals, or to waive defects, if it is deemed for the interest of the United States to do so, is reserved. Drawings and specifications furnished on application at this office. By order of the Lighthouse Board. W. F. RAYNOLDS,revet Brigadier General, Engineer Fourth Lighthouse District.

STATE PENITENTIARY. - The undersigned commissioners under an act of the State of Texas, approved February 16, hereby advertise for proposals of plans, specifications, and other particulars, for the proper and substantial building and completion of two penitentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the best for the health and comfort of the convicts. One of said penitentiaries to be built about two miles north of Rusk, in Cherokee County, with a view of utilizing in manufacture the iron ores which abound in this section of the State; the other to be built at the head of the San Marcos River, in Haystack County, in contemplation of the manufacture of cotton, wool, leather, and other goods and fabrics, that will not come into competition with the personal industries of the mechanical professions. Said penitentiaries are to be completed by the first day of July, 1877, and parties making proposals of plans, &c., for both or either of said penitentiaries, will state upon what terms and for what amounts they will build the same, and will, in connection with said proposals, furnish due guarantees of their abilities to build and complete the same in accordance with such plans, &c., and by the time limited. Persons desiring to inspect the sites indicated will call on E. L. Gregg at Rusk, or Gen. Ed. Burleson at San Marcos; and all proposals will be addressed to E. L. Gregg, at Rusk, Cherokee County, Texas. The commissioners expressly reserve the right to reject any and all proposals, and hereby give notice that no compensation will be made for any proposals, plans, &c., which may be submitted under this advertisement. W. W. LANG, ED. BURLESON, B. W. BROWN, E. L. GREGG, Commissioners.

LIFE SAVING STATION HOUSES. - Proposals will be received at the Treasury Department in Washington, D. C., until 12 o'clock, M., of Tuesday the 25th of May, for the construction of life-saving station houses at the following named points on the coast of Lake Superior: to wit, one at Vermillion Point, one at a place seven miles west of Vermillion Point, one at Two Heart River, and one at Sucker River, all in the State of Michigan. Bids will be received for one, several, or all of the above-mentioned houses; and bidders must state the number they will build, and designate the localities. Each bid must be accompanied by a bond in the sum of one thousand dollars, with two good and sufficient sureties, conditional that the bidder shall enter into contract without delay if his bid be accepted. All proposals must be indorsed, "Proposals for the construction of life-saving station houses, coast of Lake Superior," and addressed to the Secretary of the Treasury, Washington, D. C. Specifications and plans, and forms of proposal and bond, can be obtained at the office of the Collector of Customs at Detroit, Port Huron, Grand Haven, and Marquette, Mich.; Chicago, Ill.; and Milwaukee, Wis.; also upon application to this Department. B. H. BRISTOW, Secretary.

STATE REFORM SCHOOL. - The trustees of the Iowa Reform School hereby give notice that they intend to erect a main building for said school, and will receive bids for three hundred thousand or more brick of best quality, delivered in Eldora; two hundred or more legal perch of best quality foundation-stone, delivered at Eldora or at quarry; also the price per M of the various kinds of lumber necessary for such building; all to be delivered as above. All bids will be addressed to E. Andrew, Eldora, Ia., and will be received until May 31, at which time they will be opened and examined. J. A. PARVIN, President. T. E. CORNHILL, Secretary.

PROPOSALS.

SCHOOLHOUSE. Proposals will be received by the Board of Directors of the Independent School District of the city of Burlington, Iowa, for the erection of a two-story addition to the "West Madison" School House, until 9 o'clock, A. M., of May 20, 1876, according to plans and specifications which will be ready for inspection at the office of the Secretary in Parson's Block, on and after April 23. Separate bids will also be received for window blinds for the whole building. All bids must be signed by the party proposing to do the work, securely sealed, and indorsed, "Proposals for erecting West Madison Addition," or "Proposals for Blinds," and delivered to the Secretary before the hour above fixed. By order of the Board. GEO. FRAZER, Secretary.

OLD IRON. - Tenders are invited by the Grand Trunk Railway for the purchase of Old Iron Rails, delivered as follows: about 7,000 tons at Toronto, Sarnia, Detroit Junction, or Buffalo; about 1,000 tons at Montreal or Point Levi (opposite Quebec); about 3,000 tons at Portland. The company has wharfage accommodation for shipment by water at Toronto, Sarnia, and Portland; and deliveries would be made commencing in May, and extending through the summer. Offers, stating the price per ton (of 2,240 lbs.) and the place of delivery, will be received by the undersigned at Montreal, Can., up to the 15th of May. JOSEPH HICKSON, General Manager.

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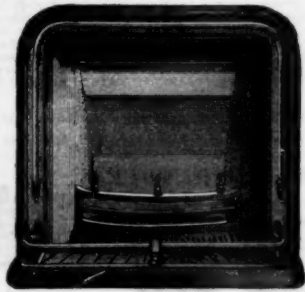
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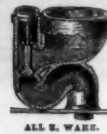
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EDWARD T. AVERY,  
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**WATER-WORKS.**—Bids will be received by the Common Council of Fort Wayne, Ind., at the office of the City Civil Engineer, for the construction of the Fort Wayne water-works, and embracing the following particulars:

For two sets of steam-pumping machinery, each capable of raising 3,000,000 gallons of water, 200 feet high, in 24 hours. For one steam-pumping machinery capable of raising 3,000,000 gallons of water, 200 feet high, in 24 hours. For one water wheel and pump of the same capacity. For furnishing and laying 25 miles of water-pipes, with all the necessary fire-hydrants, stop-gates, and special castings. For the construction of two filtering basins. For the erection of a stand-pipe and tower 200 feet high, and for the construction of an engine-house and boiler-house. Also for furnishing all other structures and appurtenances required, as per plans and specifications. Proposals will also be received for furnishing a sufficient supply of water for domestic use, and for the extinguishment of fires; and also for water-power to pump the same into pipes. The prices must be written in the bid, and also stated in figures. Bidders are required to state in their proposals their names and places of residence. Each proposal will be accompanied by the undertaking in writing, of two responsible persons, with their respective places of business or residence, to the effect that, if the contract be awarded to the person or persons making the bid, they will, on its being so awarded, become bound as sureties for its faithful performance; and, if he or they shall omit or refuse to execute the same, they will pay the city of Fort Wayne any damage that may be occasioned to the said city by such failure. The plans and specifications can be seen at the office of the city civil engineer; and proposals will be received for the entire work or any part of the same until Tuesday, May 23, at noon.

JOHN RYALL, City Civil Engineer.

**FIRE COMMISSIONERS' OFFICE.**

No. 1328 RACE STREET, PHILADELPHIA.  
Sealed Proposals will be received at this Office until Tuesday, May 16, 1876, at 8 o'clock, P. M. Indorsed "Proposals for Furnishing Hose," and addressed to Jacob Loudenlager, President of Board of Fire Commissioners, for furnishing 5,000 feet or more of 2 1/2-inch 4-ply, with 5-ply ends and capped, of Antiseptic Test Hose to stand a pressure of 400 pounds to the square inch.

The Board reserves the right to reject any or all bids; and no bill will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance approved May 23, 1860, have been complied with.

By order of the Board,  
JOHN CANTLIN, Secretary.

**STATE REFORM SCHOOL.**—The trustees of the Iowa Reform School hereby give notice that they intend to erect a main building for said school, and will receive bids for three hundred thousand or more brick of best quality, delivered in Eldora; two hundred or more legal perch of best quality foundation-stone, delivered at Eldora or at quarry; also the price per M of the various kinds of lumber necessary for such building; all to be delivered as above. All bids will be addressed to E. Andrew, Eldora, Io., and will be received until May 31, at wh. h. time they will be opened and examined. J. A. FARVIN, President. T. E. CORNHILL, Secretary.

**PROPOSALS.**

**THE BOARD OF COMMISSIONERS OF**

Cook County, Ill., will receive proposals at the office of the Clerk of the Board, in the Criminal Court building, Michigan Street, Chicago, Ill., until Thursday, June 1, 1876, at 12 o'clock M., for the furnishing of the materials, labor, stone-cutting, and stone-setting required in cut-stone work of the new Cook County Court House, in the city of Chicago aforesaid, in accordance with the plans, drawings, and specifications of the same on file at the office of James J. Egan, Architect, No. 14 South Clark Street, Chicago.

Proposals will be received as follows:—  
1st. For materials in the rough, delivered on the dock at Chicago.  
2d. For all labor, stone-cutting, and stone-setting.  
3d. For materials, labor, stone-cutting, and stone-setting complete.

Bidders may submit proposals for one or more of the above items, and for any and all kinds of stone.

Bidders shall furnish with their proposals bonds in the sum of fifty thousand dollars, with two or more approved sureties, guaranteeing that they will accept the contract if awarded to them, and that they will enter into a further bond of one-half the amount of their proposal, with two or more approved sureties guaranteeing the proper performance of the contract. Each bond and proposal to be sealed in separate envelopes, indorsed "Bond" and "Proposal," with the name and address of the bidder in full; and these two envelopes, together with a copy of this advertisement, to be enclosed in a third envelope, similarly indorsed and addressed as above. Blank forms of proposal and bond, together with all necessary information with respect to plans, drawings, and specifications, will be furnished by the architect at his office.

Bidders will obtain access to the plans and specifications only in the order of their application at the office. No proposals will be received after the time specified; and all proposals that are not properly filled out will be rejected.

The right to reject any or all bids is reserved.

Bidders will understand that the contract with the successful bidder will exclude the employment of convict labor upon any material furnished the county.

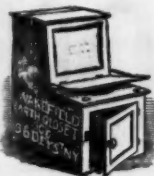
Bidders and their securities will be required to furnish the joint committee satisfactory evidence of their responsibility before contract is entered into.

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Joint Committee on Public Buildings and Public Service.

**STATE PENITENTIARY.**—The undersigned commissioners under an act of the State of Texas, approved February 16, hereby advertise for proposals of plans, specifications, and other particulars, for the physical building and completion of two penitentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the best for the health and comfort of the convicts.

One of said penitentiaries to be built about two miles north of Rusk, in Cherokee County, with a view of utilizing in manufactures the iron ores which abound in this section of the State: the other to be built at the head of the San Marcos River, in Hayee County, in contemplation of the manufacture of cotton, wool, leather, and other goods and fabrics, that will not come into competition with the personal industries of the mechanical professions. Said penitentiaries are to be completed by the first day of July, 1877; and parties making proposals of plans, &c., for both or either of said penitentiaries, will state upon what terms and for what amounts they will build the same, and will, in connection with said proposals, furnish due guarantees of their ability to build and complete the same in accordance with such plans, &c., and by the time limited. Persons desiring to inspect the sites indicated will call on E. L. Gregg, at Rusk, or Gen. Ed. Burleson at San Marcos; and all proposals will be addressed to E. L. Gregg, at Rusk, Cherokee County, Texas. The commissioners expressly reserve the right to reject any and all proposals, and hereby give notice that no compensation will be made for any proposals, plans, &c., which may be submitted under this advertisement. W. W. LANG, ED. BURLESON, B. W. BROWN, E. L. GREGG, Commissioners.

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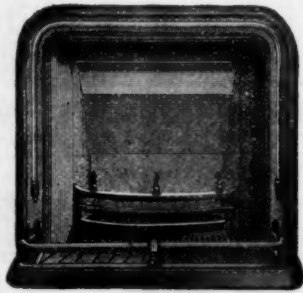
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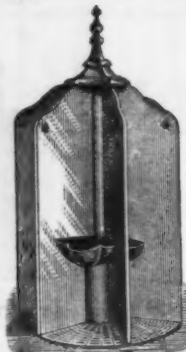
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Bidders will obtain access to the plans and specifications only in the order of their application at the office.

No proposals will be received after the time specified; and all proposals that are not properly filled out will be rejected.

The right to reject any or all bids is reserved. Bidders will understand that the contract with the successful bidder will exclude the employment of convict labor upon any material furnished the county.

Bidders and their securities will be required to furnish the joint committee satisfactory evidence of their responsibility before contract is entered into.

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— The undersigned commissioners under an act of the State of Texas, approved February 16, hereby advertise for proposals of plans, specifications, and other particulars, for the proper and substantial building and completion of two penitentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the best for the health and comfort of the convicts. One of said penitentiaries to be built about two miles north of Rusk, in Cherokee County, with a view of utilizing in manufactures the iron ores which abound in this section of the State; the other to be built at the head of the San Marcos River, in Hayee County, in contemplation of the manufacture of cotton, wool, leather, and other goods and fabrics, that will not come into competition with the persons and trades of the mechanical professions. Said penitentiaries are to be completed by the first day of July, 1877; and parties making proposals of plans, &c., for both or either of said penitentiaries, will state upon what terms and for what amounts they will build the same, and will, in connection with said proposals, furnish due guaranties of their abilities to build and complete the same in accordance with such plans, &c., and by the time limited. Persons desiring to inspect the sites indicated will call on E. L. Gregg at Rusk, or Gen. Ed. Burleson at San Marcos; and all proposals will be addressed to E. L. Gregg at Rusk, Cherokee County, Texas. The commissioners expressly reserve the right to reject any and all proposals, and hereby give notice that no compensation will be made for any proposals, plans, &c., which may be submitted under this advertisement. W. W. LANG, ED. BURLESON, B. W. BROWN, E. L. GREGG, Commissioners.

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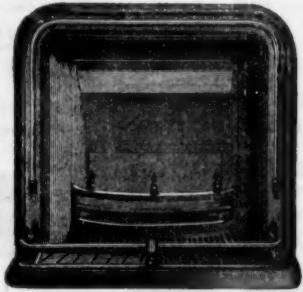
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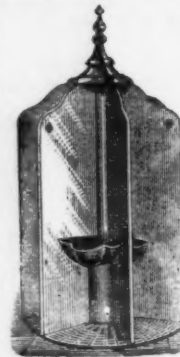
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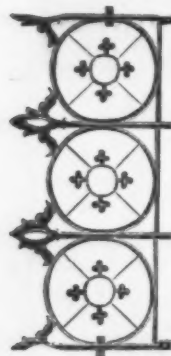
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the iron ores which abound in this section of the State; the  
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County, in contemplation of the manufacture of cotton, wool,  
leather, and other goods and fabrics, that will not come into  
competition with the personal industries of the mechanical  
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what terms and for what amounts they will build the same,  
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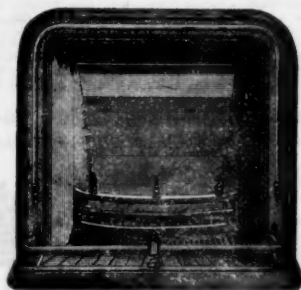
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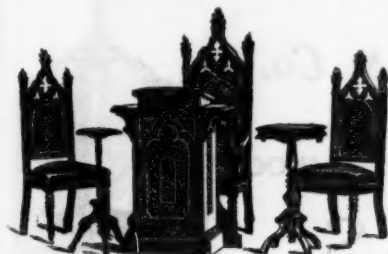
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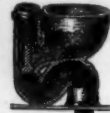
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June 10, 1876.  
Sealed proposals will be received at this office until 12 m.  
of the twenty-seventh day of June, 1876, for all the Stone  
and Brick Work required in the construction of the Base-  
ment and Rear Area Walls of the U.S. Court House and  
Post Office, at Nashville, Tenn., in accordance with draw-  
ings marked Nos 2 and 4, and the specification.  
Copies of the drawings, specification, form of proposal,  
and any additional information, may be had on application  
at this office, or at the office of the Superintendent at the  
building.  
WM. A. POTTER, Supervising Architect.

**NOTICE TO CONTRACTORS.**

BOSTON, May 29, 1876.  
Sealed proposals will be received at the office of the  
Consulting Architect, Nathaniel J. Bradley, 18 Pemberton  
Square, until June 14, 1876, at 12 o'clock m., for completely  
finishing ready for occupancy all the buildings now in pro-  
cess of erection for the State Hospital for the Insane at Dan-  
vers; also for the erection and completion of barn or stable,  
fences, &c., and building or repairing the station, farmhouse,  
and other outbuildings. The proposals may be offered  
singly or jointly for the following works: viz., mason work,  
carpenter work, plumbing, plastering, gas works, gas fix-  
tures, and painting.  
Plans and specifications may be seen at the office on the  
grounds. The Commissioners reserve the right to reject any  
and all bids. SAMUEL C. COBB, C. C. ESTY, EDWIN  
WALDEN, Commissioners.

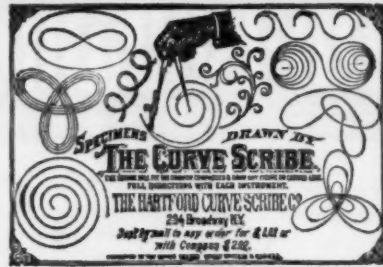
**STATE PENITENTIARY.**—The under-  
signed commissioners under an act of the State of  
Texas, approved February 16, hereby advertise for propo-  
sals of plans, specifications, and other particulars, for the  
proper and substantial building and completion of two peni-  
tentiaries in said State, in conformity to the modern forms  
of constructing public prisons, which have proven to be the  
best for the health and comfort of the convicts. One of said  
penitentiaries to be built about two miles north of Rusk, in  
Cherokee County, with a view of utilizing in manufactur-  
ing the iron ores which abound in this section of the State; the  
other to be built at the head of the San Marcos River, in Hay-  
cock County, in contemplation of the manufacture of cotton, wool,  
leather, and other goods and fabrics, that will not come into  
competition with the personal industries of the mechanical  
professions. Said penitentiaries are to be completed by the  
first day of July, 1877; and parties making proposals of plans,  
&c., for both of either of said penitentiaries, will state upon  
what terms and for what amounts they will build the same,  
and will, in connection with said proposals, furnish due  
guaranties of their abilities to build and complete the same  
in accordance with such plans, &c., and by the time limited.  
Persons desiring to inspect the sites indicated will call on  
E. L. Gregg at Rusk, or Gen. Ed. Burleson at San Marcos;  
and all proposals will be addressed to E. L. Gregg, at Rusk,  
Cherokee County, Texas. The commissioners expressly  
reserve the right to reject any and all proposals, and hereby  
give notice that no compensation will be made for any propo-  
sals, plans, &c., which may be submitted under this ad-  
vertisement. W. W. LANG, ED. BURLESON, B. W.  
BROWN, E. L. GREGG, Commissioners.

**HEATING APPARATUS.**—Bids will be  
received until 12 m., June 15, for heating the buildings of  
the Institution for the Deaf and Dumb, at Council Bluffs,  
Ia. Bidders will furnish their own specifications; but  
printed directions will be furnished them on application to  
William Ward, Superintendent, Council Bluffs, Ia. By  
order of the Board of Trustees. THOS. OFFICER, President.

**PROPOSALS.**

**STATE EDUCATIONAL INSTITUTION.**

—Proposals for furnishing material and the erection of  
the main building of the Institution for the Education of the  
Blind, in the city of Janesville, Wis., according to the plans  
and specifications thereof, will be received by the under-  
signed, at his office, No. 6 East Milwaukee Street, Janesville,  
Wis., until 12 o'clock noon, June 15, 1876. The plans and  
specifications may be examined at the office of A. Anderson,  
architect (under whose supervision the work will be done),  
at No. 37 West Milwaukee Street, Janesville, from and after  
June 1, 1876. Proposals may be made separately for mason  
work, including the cast-iron work connected therewith;  
and for carpenter work, including galvanized and wrought  
iron work, tin work, painting and glazing. Proposals will  
also be received for doing the entire work. For further  
particulars address or call upon the undersigned. J. B.  
WHITING, Secretary of the Board of Trustees of the Wis-  
consin Institution for the Education of the Blind.



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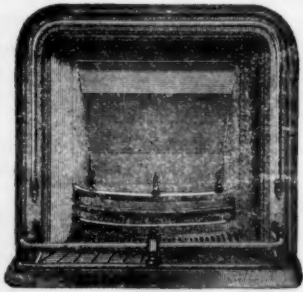
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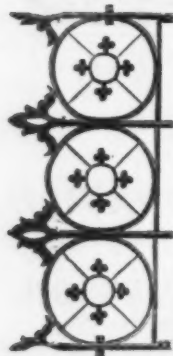
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# AMERICAN ARCHITECT AND BUILDING NEWS

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VOL. I. No. 25.]

BOSTON, SATURDAY, JUNE 17, 1876.

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Sealed proposals will be received at this office until 12 M.  
of the twenty-seventh day of June, 1876, for all the Stone  
and Brick Work required in the construction of the Basement  
and Rear Area Walls of the U.S. Court House and  
Post Office, at Nashville, Tenn., in accordance with drawings  
marked Nos 2 and 4, and the specification.

Copies of the drawings, specification, form of proposal,  
and any additional information, may be had on application  
at this office, or at the office of the Superintendent at the  
building.

W. M. A. POTTER, Supervising Architect.

**BRICK FACTORY.**—Proposals will be  
received at the office of the undersigned, for furnishing  
the material and labor necessary to construct a brick factory  
in accordance with plans and specifications to be seen at  
their office. The right to reject any and all propositions is  
reserved. THE MORRIS & IRELAND SAFE CO., 64  
Sudbury Street.  
Boston, June 13, 1876.

**INSANE HOSPITAL.**—Sealed proposals  
will be received at the office of the Consulting Archi-  
tect, Nath. J. Bradlee, 18 Pemberton Square, until June 17,  
1876, at 12 o'clock M., for completely finishing ready for  
occupancy all the buildings now in process of erection for  
the State Hospital for the Insane, at Danvers; also for the  
erection and completion of barn or stable, fences, &c., and  
building or repairing the station, farmhouse, and other out-  
buildings. The proposals may be offered singly or jointly  
for the following works; viz., mason work, carpenter work,  
plumbing, plastering, gas works, gas fixtures, and painting.

Plans and specifications may be seen at the office on the  
grounds. The Commissioners reserve the right to reject  
any and all bids.

SAMUEL C. COBB, C. C. ESTY, EDWIN WALDEN,  
Commissioners.  
Boston, May 29, 1876.

**BRIDGE.**—Bids will be received at the  
office of the Commissioners of Hamilton Co., O., in  
Cincinnati, until July 1, at 12 M., for masonry of the abut-  
ments of a bridge across Millcreek, on the road from Hart-  
well to Lockland, in Sycamore township. Specifications  
can be seen at this office. Also, for an iron superstructure  
at the same place; clear span, eighty feet; clear roadway,  
eighteen feet. Bidders will furnish their own plans and  
specifications therefor. A full and complete strain sheet to  
accompany each plan. Said bridge must be of sufficient  
strength to sustain one hundred pounds per square foot of  
floor surface beside its own weight; factor of safety, four  
hundred and fifteen thousand tension, twelve thousand five  
hundred compression. Payment will be made in Hamilton  
County bonds, bearing interest at seven per cent. By order  
of Commissioners. JOSEPH B. HUMPHREYS, Auditor.

**COUNTY PRISON EXTENSION.**—Pro-  
posals will be received by the Commissioners of  
Schuylkill County, at their office in the county court house,  
Pottsville, Penn., until 4 P.M., June 28, for the roofing,  
plumbing, and gas-fitting, plastering, painting, and glazing,  
required for the extension of the Schuylkill County Prison.  
Each of said proposals to be indorsed separately as above  
enumerated. Plans and specifications of the work may be  
seen at the Commissioners' office until June 24. MORGAN  
W. FEHR, LOUIS BLASS, PATRICK COLLINS, Com-  
missioners. E. A. SCHARTEL, Clerk.

**MASON WORK.**—Bids will be received at  
the office of the clerk of the Board of Education of  
Cleveland, O., until 12 M., Monday, June 26, for the mason  
work on the Mayflower School addition. Plans and specifi-  
cations may be seen, and blank proposals obtained, at the  
clerk's office on and after June 12. The bids for labor and  
materials must each be separately stated with the price  
thereof. No proposal will be entertained unless made on  
the blanks furnished by the board. F. M. SANDERSON,  
Chairman Building Committee.

**TOWN BUILDING.**—Proposals will be  
received by the clerk of the incorporated village of  
Harrison, Hamilton Co., O., until 12 M., Thursday, June 22  
for the erection of a new town hall building. It will be un-  
derstood by each bidder that a reserve of fifteen per cent  
will be held until the build up is completed and accepted by  
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Work to commence immediately after the letting. For  
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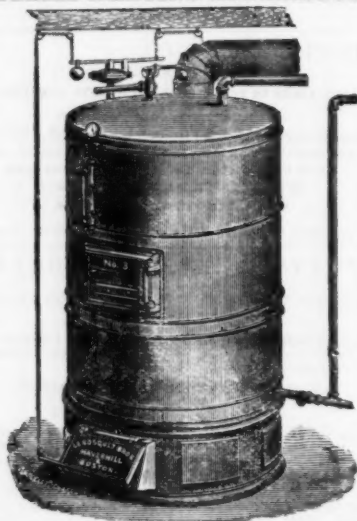
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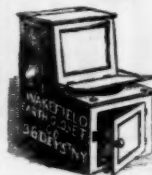


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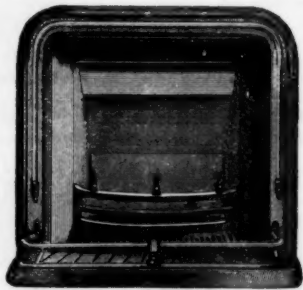
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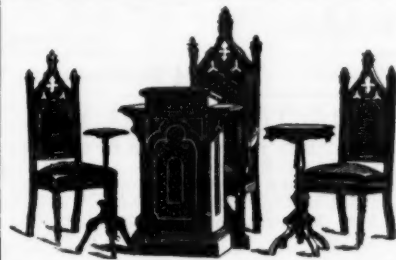
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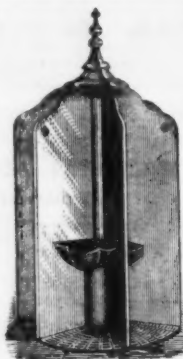
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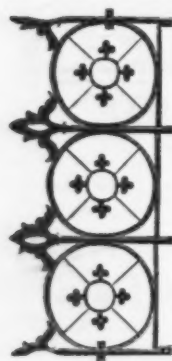
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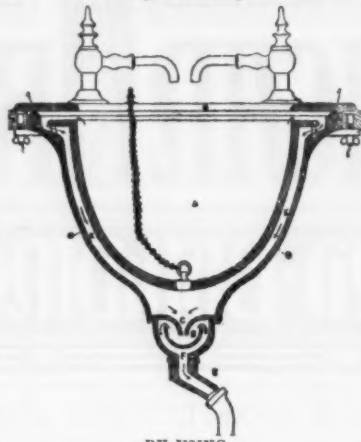
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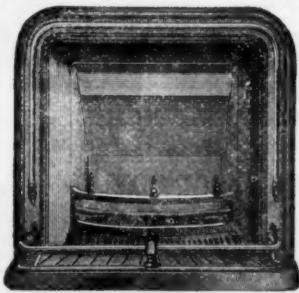
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WASHINGTON, D. C., June 26, 1876.

Sealed proposals will be received at this office until 12 M.,  
of the eleventh day of July, 1876, for furnishing and deliver-  
ing at the site of the United States Custom House, &c.,  
building, Fall River, Mass., all the red and gray granite re-  
quired for the superstructure, &c., cut ready for setting, in  
accordance with plans, specification, and schedule; also for  
three hundred and seventy thousand (370,000), more or less,  
hard burned red bricks, sound and free from limestone, of the  
best quality, taken from the heart of the kiln; and seven  
hundred and fifty (750) barrels, more or less, of stone lime,  
two and a half bushels per barrel, of the best quality; and  
a hundred and seventy (170) cubic yards of clean sharp river  
sand. Delivery of the bricks, lime, and sand to be in such  
quantities as required by the superintendent, and the pro-  
gress of the building.

Bidders will submit with their proposal a sample of such  
material as they propose to supply.

Copies of the drawings, specification, schedule, form of  
proposal, and any additional information, may be had on ap-  
plication at this office, or at the office of the superintendent  
at the building.

The Department reserves the right to reject any or all bids,  
or any portion thereof, if it be deemed in the interest of the  
Government to do so.

Proposals must be enclosed in sealed envelopes, endorsed,  
"Proposals for red or gray granite, bricks, lime, or sand (as  
the case may be), for the United States Custom House, &c.,  
Fall River, Mass., and addressed to  
WILLIAM A. POTTER, Supervising Architect.

**NATIONAL MILITARY CEMETERIES.**

Proposals in triplicate, with a copy of this advertise-  
ment attached to each, will be received at the office of the  
National Cemetery, at Washington, D. C., until Saturday,  
July 15, 1876, for the construction of a Superintendent's  
Lodge, of brick or stone, at the National Cemetery at Graf-  
ton, West Virginia; also for the construction of an enclos-  
ing wall and a Superintendent's Lodge, of brick or stone,  
at the National Cemetery at Pinn's Point, N. J.,—opposite  
Fort Delaware. The work during its progress will be fre-  
quently inspected by competent engineers, and a strict  
compliance with the terms of the contract will be required.  
Copies of plans and specifications may be seen at this office,  
and at the Quartermaster's office at Philadelphia, Penna.  
1120 Girard Street, also at the Cemeteries above mentioned.  
A. F. ROCKWELL, Captain and A. Q. M.

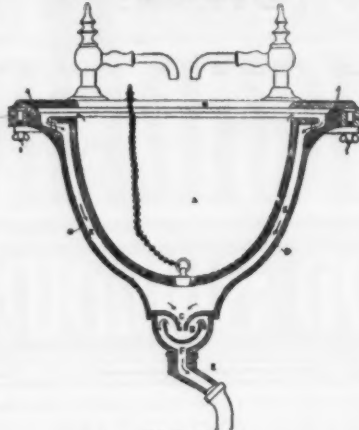
**ROOFING SLATE.**—Proposals will be  
received at the office of the Kansas State Penitentiary  
in Leavenworth, Kansas, and opened at 2 P. M., July 6,  
for about 75 squares of roofing slate, punched for nails, and  
sufficient nails to put the same on, and delivered on the  
cars at Penitentiary Switch. It is not necessary to be even  
in color, but of good quality for shop roofs.  
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**STEAM HEATING APPARATUS.**—Pro-  
posals will be received until July 10, at 12 M., for a  
steam heating apparatus for the Boston State Business  
Asylum. Proposals may be in accordance with two plans  
and specifications, or either of them, marked Nos. 1 and 2  
respectively, now in the possession of the Board of Man-  
agers; or any party may submit other plans and specifica-  
tions with their proposals. Proposals will be received for  
the entire work complete, or for the boilers, engines, fans,  
piping, radiators, or for any portion of the work herein  
enumerated separately. Plans and specifications can be  
seen, and further information obtained, at the office, No. 31  
City and County Hall. Proposals will be addressed to WM.  
F. ROGERS, Secretary, No. 31 City and County Hall,  
Buffalo, N. Y.  
JAMES P. WHITE, President Board of Managers.

**BRIDGE.**—Bids will be received at the  
office of the Commissioners of Hamilton Co., O., in  
Cincinnati, until July 1, at 12 M., for masonry of the abut-  
ments of a bridge across Millcreek, on the road from Hart-  
well to Lockland, in Swcomer township. Specifications  
can be seen at this office. Also, for an iron superstructure  
at the same place; clear span, eighty feet; clear roadway,  
eighteen feet. Bidders will furnish their own plans and  
specifications therefor. A full and complete strain sheet to  
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strength to sustain one hundred pounds per square foot of  
floor surface beside its own weight; factor of safety, four  
hundred and fifteen thousand tension, twelve thousand five  
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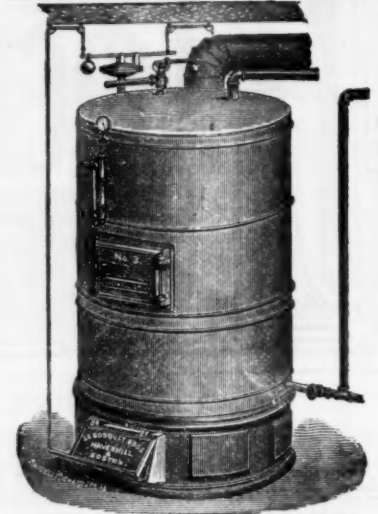
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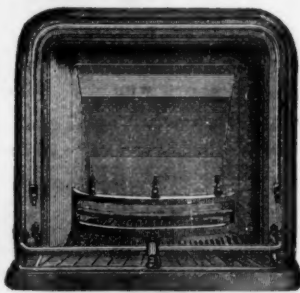
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# THE AMERICAN ARCHITECT AND BUILDING NEWS

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Vol. I. No. 28.]

BOSTON, SATURDAY, JULY 8, 1876.

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**PROPOSALS.**

**PROPOSALS FOR RED AND GRAY**  
GRANITE, BRICKS, LIME, AND SAND.

OFFICE OF SUPERVISING ARCHITECT,  
TREASURY DEPARTMENT,  
WASHINGTON, D. C., June 20, 1876.  
Sealed proposals will be received at this office until 12 M.,  
of the eleventh day of July, 1876, for furnishing and deliver-  
ing at the site of the United States Custom House, &c.,  
building, Fall River, Mass., all the red and gray granite re-  
quired for the superstructure, &c., cut ready for setting, in  
accordance with plans, specification, and schedule; also for  
three hundred and seventy thousand (370,000) more or less,  
hard burned red bricks, sound and free from limestone, of the  
best quality, taken from the heart of the kiln; and seven  
hundred and fifty (750) barrels, more or less, of stone lime,  
(two and a half bushels per barrel), of the best quality; and  
a hundred and seventy (170) cubic yards of clean sharp river  
sand. Delivery of the bricks, lime, and sand to be in such  
quantities as required by the superintendent, and the progress  
of the building.

Bidders will submit with their proposal a sample of such  
material as they propose to supply.  
Copies of the drawings, specification, schedule, form of  
proposal, and any additional information, may be had on ap-  
plication at this office, or at the office of the superintendent  
at the building.

The Department reserves the right to reject any or all bids,  
or any portion thereof, if it be deemed in the interest of the  
Government to do so.

Proposals must be enclosed in sealed envelopes, endorsed,  
"Proposals for red or gray granite, bricks, lime, or sand (as  
the case may be), for the United States Custom House, &c.,  
Fall River, Mass., and addressed to  
WILLIAM A. POTTER, Supervising Architect.

**NATIONAL MILITARY CEMETERIES.**

—Proposals, in triplicate, with a copy of this adver-  
tisement attached to each, will be received at the office of the  
National Cemeteries, at Washington, D. C., until Saturday,  
July 15, 1876, for the construction of a Superintendent's  
Lodge, of brick or stone, at the National Cemetery at Grafton,  
W. Va.; also for the construction of an enclosing  
wall and a Superintendent's Lodge, of brick or stone, at  
the National Cemetery at Finn's Point, N. J.,—opposite  
Fort Delaware. The work during its progress will be fre-  
quently inspected by competent engineers, and a strict com-  
pliance with the terms of the contract will be required.  
Copies of plans and specifications may be seen at this office  
and at the Quartermaster's office at Philadelphia, Penn., 1129  
Girard Street, also at the Cemeteries above mentioned.  
A. F. ROCKWELL, Captain and A. Q. M.

**BRICK SEWER.**—Proposals will be re-  
ceived by the undersigned, No. 131 LaSalle Street,  
Chicago, until Tuesday, July 11, at 3.30 o'clock P. M., for  
furnishing materials and construction of a brick sewer on  
the west roadway of Drexel boulevard, from Forty-third  
Street to Oakwood boulevard, and on Oakwood boulevard,  
from Drexel boulevard to Grand boulevard, according to  
plans and specifications on file in the Engineer's Depart-  
ment of the village of Hyde Park. The contractors are  
to receive payment for the same only out of the special  
assessment for said improvement when the same is col-  
lected.  
JOHN R. BENSLEY,  
President of the Board of Trustees.

**PROPOSALS.**

**TO BRIDGE BUILDERS.**—City of Boston.

Sealed proposals, indorsed "Proposals for Rebuilding  
and Widening Dover-street Bridge," will be received at the  
office of the Clerk of Committees, City Hall, Boston, until  
12 o'clock, M., of SATURDAY, July 15, 1876.  
Bidders will state the proposed price for each of the items  
of the work, by which the bids will be compared. These  
prices are to cover all the expenses incidental to the com-  
pletion of the work in full conformity with the speci-  
fications.

Each bid must be signed by the bidder, and accompanied  
by a bond for \$2,000, conditioned for the execution of the  
contract (with satisfactory sureties for its performance),  
within the time specified in this advertisement, in case the  
bid be accepted.

The sureties of the bonds, both for the proposals and for the  
contract, must be residents of Massachusetts. No bid will  
be considered which has not responsible sureties upon its  
accompanying bond.

The person or persons to whom the contract may be  
awarded will be required to appear at this office with the  
securities offered by him or them, and execute the contract  
within four days (not including Sunday) from the date of  
notification of such award and the preparation and readiness  
for signature of the contract; and, in case of failure or  
neglect to do so, he or they will be considered as having  
abandoned it, and the amount of the bond shall be forfeited  
to the city of Boston.

Specifications may be obtained, and plans may be seen, at  
the office of the City Engineer, City Hall, Boston.

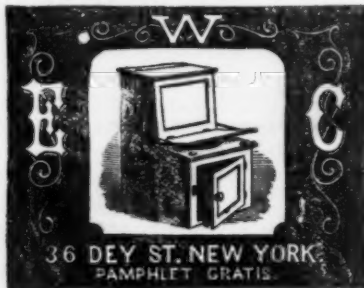
The amount of security required will be such as may be  
fixed by the Committee on Bridges, after the proposals are  
opened; said sum not to be less than one-fourth nor more  
than two-thirds of the amount of the contract.

The Committee on Bridges reserve the right to reject any  
or all bids, should it deem it to be for the interest of the city  
of Boston so to do.

**CHOATE BURNHAM,**  
Chairman Committee on Bridges.  
Office of City Engineer,  
City Hall, Boston, June 29, 1876.

**SCHOOL HOUSE.**—Proposals will be re-  
ceived at the office of the clerk of the Board of Educa-  
tion of Franklin township, Franklin Co., O., until 12 o'clock  
at noon of July 15, 1876, for building a School House on a  
lot situated near the State quarries, in said township,  
according to plans and specification on file at the black-  
smith shop of D. H. Moore, in West Columbus, on West  
Broad Street. By order of the Board of Education.  
J. J. EAKIN, Clerk.

**BRICK FREIGHT HOUSE.**—Bids will be  
received until July 11, 1876, at 12 o'clock noon, for fur-  
nishing all the material and labor necessary for the con-  
struction of a Brick Freight House in Ludlow, Ky., on the  
line of the Cincinnati Southern Railway. Plans and speci-  
fications can be seen at No. 70 West Third Street, Cincinnati,  
O. By order of the Board.  
W. GILES GREENWOOD, President.  
THOMAS D. LOVELY, Consulting Engineer.



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NEW YORK, May 25th, 1876.  
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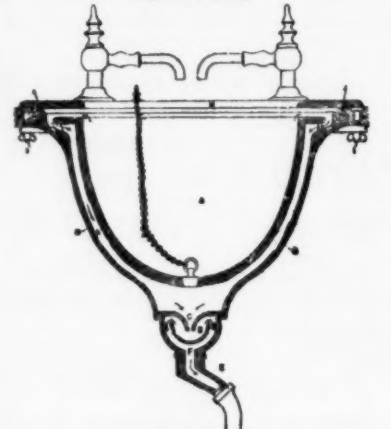


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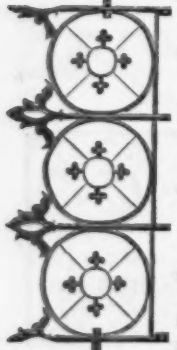
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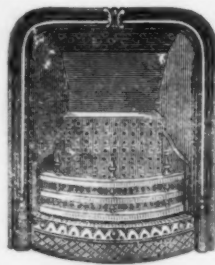
**SCHOOLHOUSE.** — Proposals for the erection of a schoolhouse in the Independent District of Fayette, in Fayette township, in the county of Lynn, Iowa, will be received by the undersigned at his office in said Independence District, where plans and specifications may be seen until one o'clock, P. M., July 29, 1876, at which time the contract will be awarded to the lowest responsible bidder.  
**SAMUEL McCLINTOCK,**  
Secretary of the Board of Directors.

**PROPOSALS** for wrought and cast iron work for the United States Court-House and Post-Office at Atlanta, Ga.

**OFFICE OF SUPERVISING ARCHITECT,**  
TREASURY DEPARTMENT,  
WASHINGTON, D. C., July 13, 1876.

Sealed proposals will be received at this office until 12, M., of the first day of August, 1876, for furnishing, delivering, and putting in place the wrought and cast iron work, comprising rolled beams, &c., on first and second floors, and cast iron columns, pilasters, &c., of first story, all as exhibited by the drawings, described in the specifications, and called for in the schedule. Copies of the drawings, specifications, schedule, and form of proposal, and any additional information, may be had on application at this office, or to the superintendent of the building, Mr. T. G. Healey.  
**WILLIAM A. POTTER,** Supervising Architect.

**STONE CUTTERS.** — Proposals will be received at the office of the Superintendent of the New Capitol, Albany, N. Y., up to 12 o'clock, noon, Tuesday, July 18, 1876, for furnishing all sandstone, and doing all cutting of all sandstone, required for the interior of the Senate and Assembly Chambers. The plans, specifications, and conditions of the contracts may be inspected at the office of the Advisory Board, Rooms 3 and 4 of Broadway, New York City, where further particulars can be obtained between the hours of 11 A.M. and 3 P.M. daily, Sundays excepted.  
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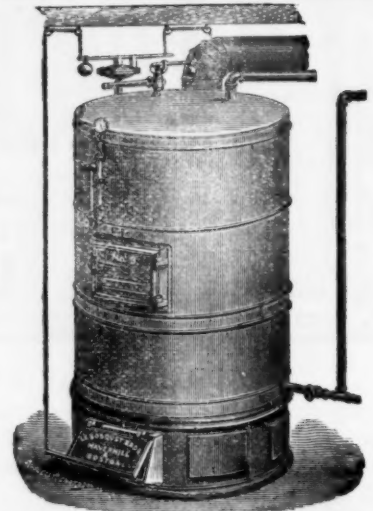
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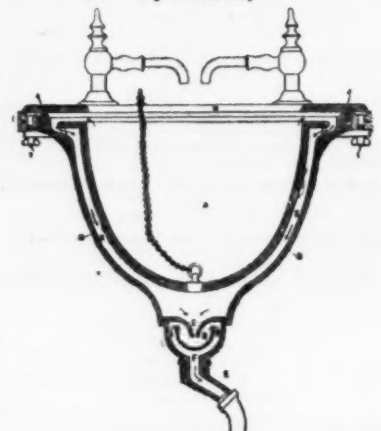
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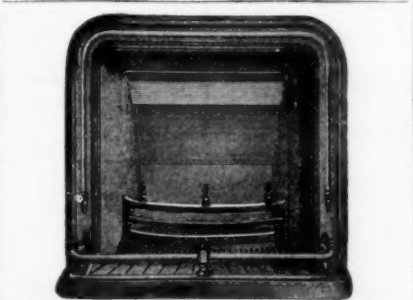
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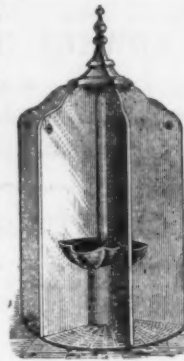
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**BRIDGE.**—The Board of Commissioners of the County of Allen, State of Indiana, will receive sealed proposals at the Auditor's Office in Fort Wayne, Ind., up to 1 o'clock, P. M., Tuesday, the 25th of July, 1876, for furnishing all material and labor for the construction of two stone abutments and one pier for a bridge across the Maumee River at Platter's Ford, in Milan Township, Allen County, with or without pile foundation, as the nature of the bed of the river may require. Said work to be done according to plans and specifications adopted by the Board, and now on file in the office of the County Auditor, and open to inspection.

Proposals for masonry must be for "Stony Point" or "Whitehouse" stone; and bids will only be entertained per cubic yard—solid, not mason's measurement.

Proposals for coffer-dam and excavations must be in gross; bids for pile, per piled driven; and, for timber and lumber, per 1,000 feet.

Proposals must be accompanied by an indemnifying bond to the acceptance of the Board.

The Board reserves the right to reject any or all bids, or to accept a part of a bid.

Proposals for abutment and pier should be indorsed, "Bids for masonry."

The Board will at the same time and place receive sealed proposals for a superstructure of wrought iron, to be built in two spans of 118 feet each in the clear respectively, between centre of pier and face of abutment, and 120 feet each extreme length. Said superstructure to have one roadway, 16 feet clear width; height of truss, 18 feet; capacity of bridge to be 2,000 pounds per lineal foot, with a factor of safety of four (4), exclusive of the bridge weight. Bidders must furnish full plans and detailed specifications, giving form and dimensions of girders, and size of each part of bridge; together with strain sheets, giving weight of bridge, with maximum strains under specified load, and the cross sections of each principal part in square inches.

Bids to be made per lineal foot of extreme length of superstructure.

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**PROPOSALS.**

**PROPOSALS** for wrought and cast iron work for the United States Court-House and Post Office at Atlanta, Ga.

OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., July 13, 1876. Sealed proposals will be received at this office until 12 M., of the first day of August, 1876, for furnishing, delivering, and putting in place the wrought and cast iron work, comprising rolled beams, &c., on first and second floors, and cast iron columns, pilasters, &c., of first story, all as exhibited by the drawings, described in the specifications, and called for in the schedule. Copies of the drawings, specifications, schedule, and form of proposal, and any additional information, may be had on application at this office, or to the superintendent of the building, Mr. T. O. Healey, at Atlanta, Ga. WILLIAM A. POTTER, Supervising Architect.

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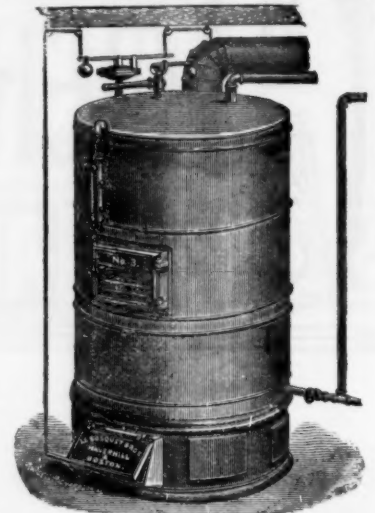
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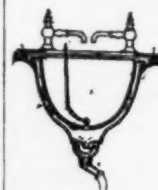
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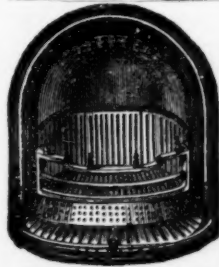
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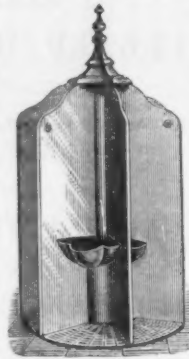
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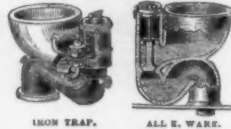
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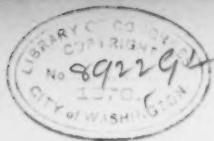
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 WASHINGTON, D.C., July 25, 1876.

Sealed proposals will be received at this office until 12, M., of the fifteenth day of August, 1876, for furnishing and delivering at the site of the United States Court-House and Post-Office, at Atlanta, Ga., all the gray granite required for the superstructure, &c., of that building, cut ready for setting, in accordance with plans, specification, and schedule; also for forty-five thousand (45,000) more or less, hard burned pressed bricks for facings, and four hundred and twenty-eight thousand (428,000) more or less, hard burned common red bricks, sound and free from limestone, of the best quality, taken in each case, from the heart of the kiln; and eight hundred (800) barrels, more or less, of lime (two and a half bushels per barrel), of the best quality; and two hundred (200) cubic yards, more or less, of clean sharp river sand.

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Bids for the granite, bricks, lime, and sand should be made on the printed form, to be obtained on application at this office, or at the office of the superintendent.

Bidders will submit with their proposal a sample of such material, properly labelled, as they propose to supply.

Copies of the drawings, specification, schedule, and form of proposal for the granite work, and any additional information, may be had on application at this office, or at the office of the superintendent at the building.

The Department reserves the right to reject any or all bids, if it be deemed in the interest of the Government to do so.

Proposals must be enclosed in sealed envelopes, indorsed, "Proposals for gray granite, bricks, lime, or sand (as the case may be), for the United States Court-House and Post-Office at Atlanta, Ga.," and addressed to **WILLIAM A. POTTER**, Supervising Architect.

**PROPOSALS FOR WROUGHT AND CAST IRON WORK FOR THE UNITED STATES COURT-HOUSE AND POST-OFFICE AT COVINGTON, KY.**

OFFICE OF SUPERVISING ARCHITECT,  
 TREASURY DEPARTMENT,  
 WASHINGTON, D.C., July 26, 1876.

Sealed proposals will be received at this office until 12, M., of the sixteenth day of August, 1876, for furnishing, delivering, fitting, and putting in place the wrought and cast iron work, comprising rolled-iron beams, &c., in first and second floors, and cast iron columns, pilasters, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule.

Copies of the drawings, specification, form of proposal, and any additional information, may be had on application at this office, or to the Superintendent of the building, Mr. M. P. Smith.

**W. M. A. POTTER**, Supervising Architect.

**PROPOSALS.**

**PROPOSALS for wrought and cast iron work for the United States Court-House and Post Office at Atlanta, Ga.**

OFFICE OF SUPERVISING ARCHITECT,  
 TREASURY DEPARTMENT,  
 WASHINGTON, D.C., July 13, 1876.

Sealed proposals will be received at this office until 12, M., of the first day of August, 1876, for furnishing, delivering, and putting in place the wrought and cast iron work, comprising rolled beams, &c., on first and second floors, and cast iron columns, pilasters, &c., of first story, all as exhibited by the drawings, described in the specifications, and called for in the schedule. Copies of the drawings, specifications, schedule, and form of proposal, and any additional information, may be had on application at this office, or to the superintendent of the building, Mr. T. G. Healey.

**WILLIAM A. POTTER**, Supervising Architect.

**PROPOSALS for stone and brick work.**

OFFICE OF SUPERVISING ARCHITECT,  
 TREASURY DEPARTMENT,  
 WASHINGTON, D.C., July 21, 1876.

Sealed proposals will be received at this office until 12, M., of the fourth day of August, 1876, for all the stone and brick work required in the construction of the basement and area walls of the United States Court-House and Post-Office at Grand Rapids, Mich., in accordance with drawings marked Nos. 2, 8, and 13, and the specification.

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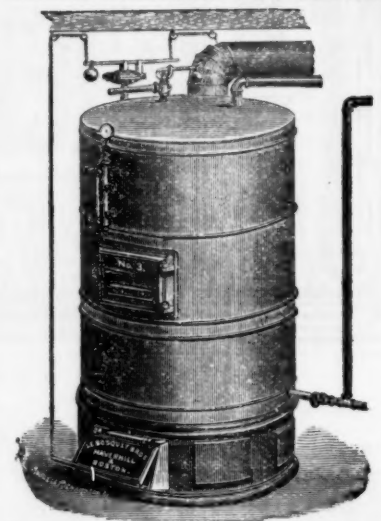
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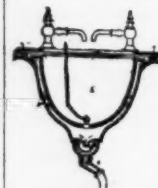
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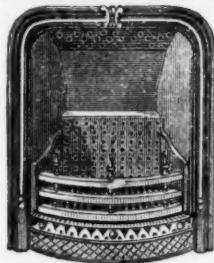
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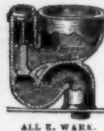
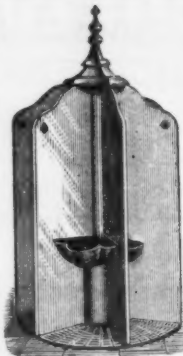
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fitting, and putting in place, the wrought and cast iron  
work, comprising rolled beams, &c., in third and fourth  
story floors, and cast iron pilasters, &c., in second and  
third stories, all as exhibited on the drawings, described  
in the specification, and called for in the schedule.  
Copies of the drawings, specification, schedule, form of  
proposal, and any additional information, may be had on  
application at this office, or to the Superintendent of the  
building, Mr. Thomas Walsh.  
W. A. POTTER, Supervising Architect.

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WASHINGTON, D.C., July 26, 1876.  
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fitting, and putting in place the wrought and cast iron work,  
comprising rolled-iron beams, &c., in first and second floors,  
and cast iron columns, pilasters, &c., of first story; all as  
exhibited on the drawings, described in the specification,  
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for forty-five thousand (45,000), more or less, hard burned  
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Bidders will submit with their proposal a sample of such  
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Copies of the drawings, specification, schedule, and form  
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The Department reserves the right to reject any or all bids,  
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office of City Architect until Tuesday, Aug. 8, at 12,  
m., for furnishing all materials and doing all the labor re-  
quired to build and complete the addition to Marcella-  
street Truant and Vagrant Home, Marcella Street, Boston  
Highlands. Separate proposals required for carpentry and  
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be seen at the office of the architect in Ottumwa, Io., or at  
the school at Eldora, Hardin County, Io.  
Proposals should be addressed to  
E. ANDREWS,  
Chairman Building Committee, Eldora, Io.



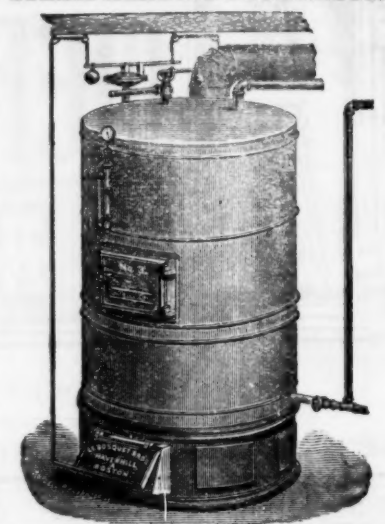
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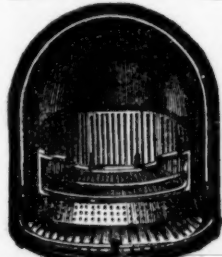
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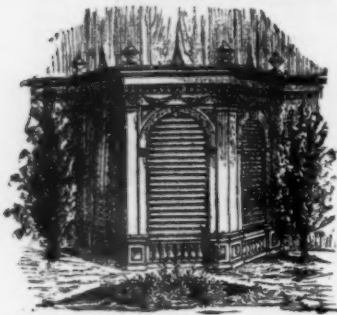
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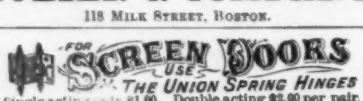
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WASHINGTON, D.C., August 9, 1876.  
Sealed proposals will be received at this office until 12, M.,  
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The whole of the carving to be executed in the most art-  
istic manner.  
The contractor to provide all necessary tools, chisels, &c.;  
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All bed, face, and moulded work on the stones to be  
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For those portions of the carving which will have to be  
executed when the stones are built in the wall, the Govern-  
ment will provide and erect the necessary scaffolding there-  
for; but, for the carving to be executed on the ground, the  
contractor will be required to supply and provide the neces-  
sary sheds.  
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complete.  
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tendent, and the progress of the building.  
Payments will be made monthly, deducting ten per cent  
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Bids will only be received from parties who are them-  
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All bids should be made on the printed form to be obtained  
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penal bond of two responsible persons in the sum of two  
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accept and perform the contract if awarded him, or, in case  
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accordance with the terms of this advertisement and his  
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structure of the United States Court-House and Post-Office  
at Evansville, Ind.," and addressed to the Supervising  
Architect.  
H. G. JACOBS, Acting Supervising Architect.

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**PROPOSALS FOR GRAY GRANITE,  
BRICKS, LIME, AND SAND.**  
OFFICE OF SUPERVISING ARCHITECT,  
TREASURY DEPARTMENT,  
WASHINGTON, D.C., July 25, 1876.

Sealed proposals will be received at this office until 12, M.,  
of the fifteenth day of August, 1876, for furnishing and deliv-  
ering at the site of the United States Court-House and Post-  
Office, at Atlanta, Ga., all the gray granite required for the  
superstructure, &c., of that building, cut ready for setting,  
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taken, in each case, from the heart of the kiln; and eight  
hundred (800) barrels, more or less, of lime (two and a half  
bushels per barrel), of the best quality; and two hundred  
(200) cubic yards, more or less, of clean sharp river sand.  
Delivery of the bricks, lime, and sand to be in such quan-  
tities as required by the superintendent, and the progress of  
the work.  
Bids for the granite, bricks, lime, and sand should be  
made on the printed form, to be obtained on application at  
this office, or at the office of the superintendent.  
Bidders will submit with their proposal a sample of such  
material, properly labeled, as they propose to supply.  
Copies of the drawings, specification, schedule, and form  
of proposal for the granite work, and any additional infor-  
mation, may be had on application at this office, or at the  
office of the superintendent at the building.  
The Department reserves the right to reject any or all bids,  
if it be deemed in the interest of the Government to do so.  
Proposals must be enclosed in sealed envelopes, indorsed,  
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TREASURY DEPARTMENT, WASHINGTON, D.C.,  
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Sealed proposals will be received at this office until 12, M.,  
of the 21st day of August, 1876, for furnishing, delivering,  
fitting, and putting in place, the wrought and cast iron  
work, comprising rolled beams, &c., in third and fourth  
story floors, and cast iron pilasters, &c., in second and  
third stories, all as exhibited on the drawings, described  
in the specification, and called for in the schedule.  
Copies of the drawings, specification, schedule, form of  
proposal, and any additional information, may be had on  
application at this office, or to the Superintendent of the  
building, Mr. Thomas Walsh.  
W. A. POTTER, Supervising Architect.

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OFFICE OF SUPERVISING ARCHITECT,  
TREASURY DEPARTMENT,  
WASHINGTON, D.C., July 26, 1876.  
Sealed proposals will be received at this office until 12, M.,  
of the sixteenth day of August, 1876, for furnishing, delivering,  
fitting, and putting in place the wrought and cast iron work,  
comprising rolled-iron beams, &c., in first and second floors,  
and cast iron columns, pilasters, &c., of first story; all as  
exhibited on the drawings, described in the specification,  
and called for in the schedule.  
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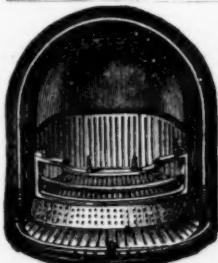
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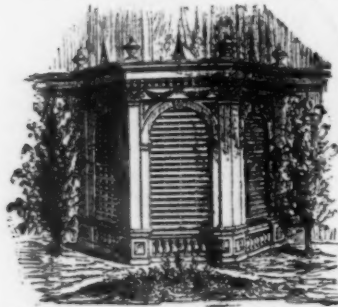
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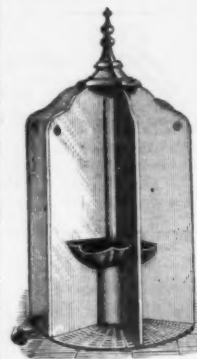
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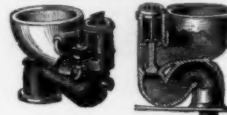
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**PROPOSALS.**

**BRIDGE.** — Sealed proposals will be received at the Auditor's office in Washington C. H., Fayette County, O., until one o'clock, P. M., of Aug. 22, A. D., 1876, for the superstructure of the following bridges: —  
Bridge No. 1. — Over Paint Creek, at Washington, on the Elm-st. Road, one hundred feet clear span; eighteen feet roadway.  
Bridge No. 2. — Over Paint Creek, about nine miles south of Washington, at the Ghormley Ford, in two spans of ninety feet each, from face of abutments to centre of pier, and sixteen feet roadway.  
Bridge No. 3. — Over Rattlesnake, about eight miles southwest of Washington, near the residence of Robert Worthington, one hundred and ten feet clear span; sixteen feet roadway.  
Bridge No. 4. — Over Compton's Creek, on the Columbia Pike, about seven miles north-east of Washington, fifty-one and five-tenths feet clear span; sixteen feet roadway.

Bridges will be required to have a capacity of one hundred pounds per square foot for the roadway, with a factor of four (4), exclusive of bridge-weight. All parts of said bridges shall be constructed on some well-tested plan.

Bidders must furnish strain-sheets, full plans, and specifications, giving form and dimensions of each part of bridge and the cross-section of each principal part in square inches. Contractors will be required to enter into bond for the faithful performance of contracts.

The right to reject any or all bids is reserved. By order of the County Commissioners.

J. F. ROBINSON, Auditor, Fayette County, O.  
July 24, 1876.

**ALMSHOUSE.** — Proposals will be received at the office of the County Clerk of Knox County, until 10, A. M., of Monday, Aug. 21, 1876, for building the east wing of the Knox County Alms-house, according to plans and specifications now on file in the County Clerk's office, where they may be seen, and for heating and ventilating the building. Proposals will be received for the building and heating separately, or for all work combined. The Board of Supervisors will open all bids on said twenty-first day of August; but reserves the right to select from or reject any or all bids. By order of the Board of Supervisors.

JOHN S. WINTER, County Clerk.

**PROPOSALS.**

**PROPOSALS FOR THE STONE CARVING** REQUIRED FOR THE SUPERSTRUCTURE OF THE UNITED STATES COURT-HOUSE AND POST-OFFICE AT EVANSVILLE, IND. (ADVERTISEMENT.)

OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., August 9, 1876.

Sealed proposals will be received at this office until 12, M., of the twenty-third day of August, 1876, for all the carving required on the stonework of the superstructure of the United States Court-House and Post-Office at Evansville, Ind., in accordance with models and drawings of same. The whole of the carving to be executed in the most artistic manner.

The contractor to provide all necessary tools, chisels, &c.; but the Government will perform the blacksmithing required in sharpening said chisels.

All bed, face, and moulded work on the stones to be carved, will be executed by the Government.

For those portions of the carving which will have to be executed when the stones are built in the wall, the Government will provide and erect the necessary scaffolding therefor; but, for the carving to be executed on the ground, the contractor will be required to supply and provide the necessary sheds.

Drawings and models of the carving can be seen on application at this office.

Proposals must be made for the whole of the carving complete.

The carving must be executed as required by the Superintendent, and the progress of the building.

Payments will be made monthly, deducting ten per cent until the final completion of the work.

Bids will only be received from parties who are themselves practical carvers.

All bids should be made on the printed form to be obtained on application at this office, and must be accompanied by a penal bond of two responsible persons in the sum of two thousand five hundred dollars (\$2,500), that the bidder will accept and perform the contract if awarded him, or, in case the United States shall so desire, will execute a contract in accordance with the terms of this advertisement and his proposal, and give such additional security for the faithful performance thereof as shall be satisfactory to the United States; the sufficiency of the security in each case to be certified to by the United States Judge, Clerk of the United States Court, or the District Attorney of the district in which the bidder resides.

The right to reject any or all bids, or to waive defects, if it is deemed for the interests of the Government to do so, is reserved.

Proposals will be enclosed in sealed envelopes, indorsed, "Proposals for the stone carving required on the superstructure of the United States Court-House and Post-Office at Evansville, Ind.," and addressed to the Supervising Architect.

H. G. JACOBS, Acting Supervising Architect.

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OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., July 31, 1876.

Sealed proposals will be received at this office until 12, M., of the 21st day of August, 1876, for furnishing, delivering, fitting, and putting in place, the wrought and cast iron work, comprising rolled beams, &c., in third and fourth story floors, and cast iron pilasters, &c., in second and third stories, all as exhibited on the drawings, described in the specification, and called for in the schedule.

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W. A. POTTER, Supervising Architect.

**STREET IMPROVEMENT.** — Sealed proposals will be received at the office of the Board of Improvements until 12, M., Aug. 23, 1876, for grading, draining, curbing, improving, and building the necessary culverts, sewers, gutters, and drains, in Woodland Hills ave., between Kinsman and Miles streets. Bids will be received for labor and materials separate and combined, the Board reserving the right to let the street in sections, or all together, as may be desired. Plans and specifications may be seen, and blank proposals can be obtained, at the office of the City Civil Engineer after Aug. 18, 1876. Each proposal must contain the full name of the party or parties making the same, and all parties interested therein, and must be accompanied by a bond of \$500, with good and sufficient surety that if the same is accepted, a contract will be entered into. No proposal will be entertained unless made on blanks furnished by the Engineer. By order of the Board.

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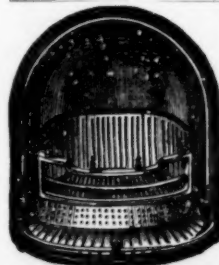
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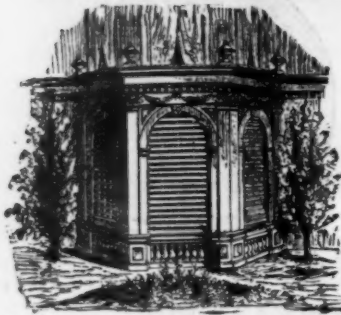
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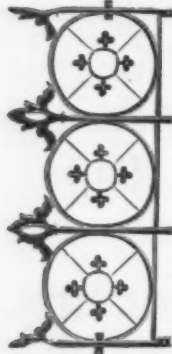
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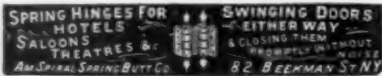
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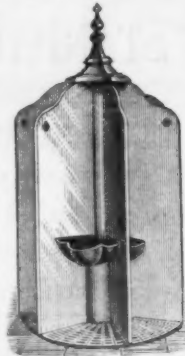
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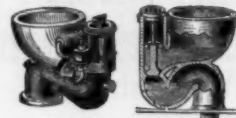
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**PROPOSALS.**

**CANADIAN PACIFIC RAILWAY.**—Sealed tenders addressed to the Secretary of Public Works, and indorsed "Tender Pacific Railway," will be received at this office up to noon of Wednesday, the 20th September next, for works required to be executed on that section of the Pacific Railway extending from Red River eastward to East Portage, Lake of the Woods, a distance of about 114 miles, viz., the track laying and ballasting only, of about 77 miles, and the construction, as track-laying and ballasting, of about 37 miles, between Cross Lake and Rat Portage. For plans, specifications, approximate quantities, forms of tender, and other information, apply to the office of the Engineer-in-Chief, Ottawa. No tender will be entertained unless on the printed form, and unless the conditions are compiled with. By Order F. BRAUN, Secretary.

**CHURCH.**—The Building Committee of the Second Congregational Society of Griswold, Conn., hereby extend the time for receiving proposals for the erection of a brick church, to AUG. 29, at 7 P.M. Parties wishing to make proposals will be furnished with the plans and specifications, in the order of their applications, for a specified time. Proposals for doing the whole work complete, by one party, or each kind separately, will be considered. The committee reserve the right to reject any proposal not considered for the interest of the society. JAMES O. SWEET, A. G. BREWSTER, D. A. LYON, A. A. YOUNG, S. E. SHERMAN, Building Committee. Jewett City, Conn.

**CITY INFIRMARY.**—Sealed proposals will be received at the Infirmary Office, City Hall, Cleveland, O., until 12 M., Saturday, Sept. 6, 1876, for furnishing all labor and materials required for the erection and completion of two wings to the City Infirmary for the incurable insane, and for two hospital wards. Plans and specifications can be seen, and all necessary information obtained, at the office of A. Koehler, Architect, Room 14, second floor, City Hall Building, after Aug. 23. Each proposal must be accompanied with a bond for one thousand dollars for the acceptance of the contract, if awarded by the Board. No proposal will be entertained, unless made on the blanks which will be furnished by the architect. The Board reserves the right to accept any, or reject all, proposals. By order of the Board, JACOB BLUM, Clerk.

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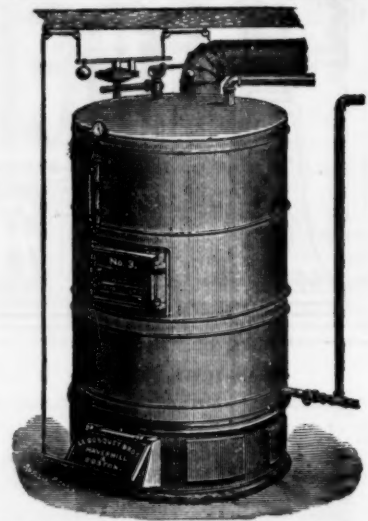
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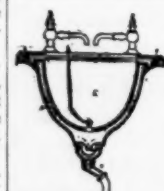
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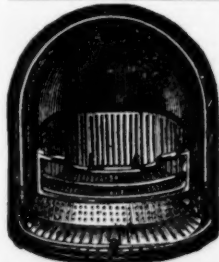
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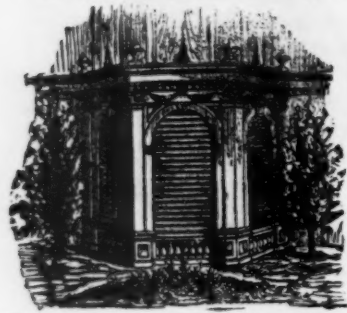
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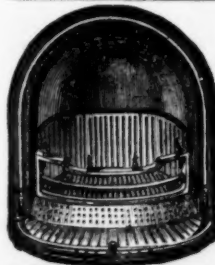
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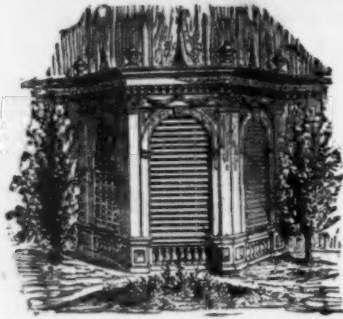
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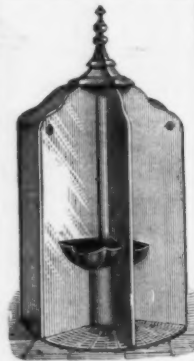
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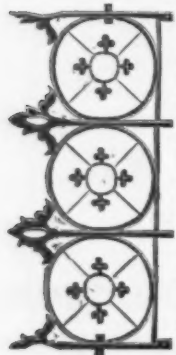
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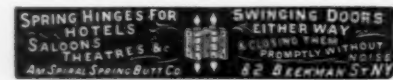
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Bidders must state the name of the quarry from which their  
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**PROPOSALS.**

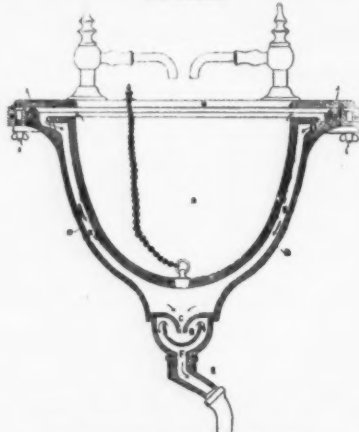
**CANADIAN PACIFIC RAILWAY.**—  
Sealed tenders addressed to the Secretary of Public  
Works, and indorsed "Tender Pacific Railway," will be  
received at this office up to noon of Wednesday, the 20th  
September next, for works required to be executed on that  
section of the Pacific Railway extending from Red River  
eastward to Rat Portage, Lake of the Woods, a distance of  
about 14 miles, viz., fit track laying and ballasting only,  
of about 77 miles, and the construction, as track-laying and  
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the undersigned up to the 15th of September. JOSEPH  
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**SCHOOL HOUSE.**—Sealed proposals for  
erecting a High School Building at Panora, Guthrie  
Co., will be received until 12 M., Sept. 18, at the office  
of the undersigned at Panora. Plans and specifications will  
be on file at the office of William Foster, architect, in Des  
Moines, until Sept. 10; and after that date at the office of  
the undersigned. The right is reserved to reject any and  
all bids. By order of the Board. L. J. PENTACOST, Secy.

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A. D. 1876, for grading, macadamizing, setting curbs and  
gutters, and constructing the necessary culverts, drains, or  
retaining walls, in accordance with specifications on file in  
the office of the Board of Public Works, Vine Street, from  
Hammond Street to the North Corporation Line. The  
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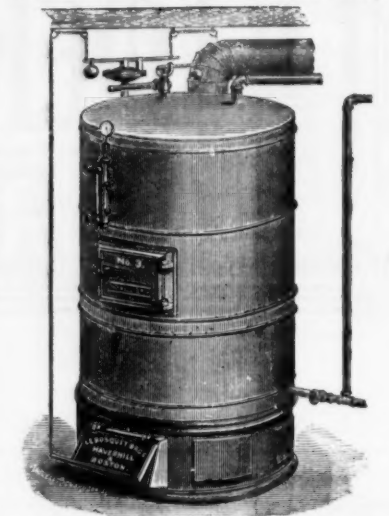


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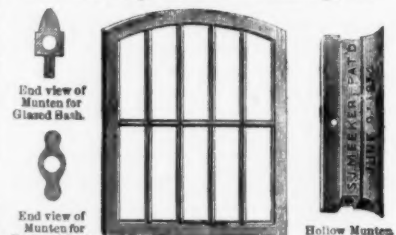


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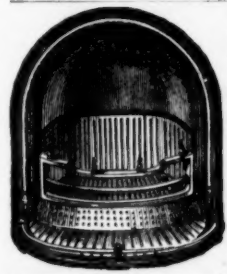
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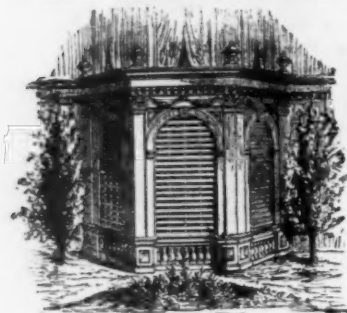
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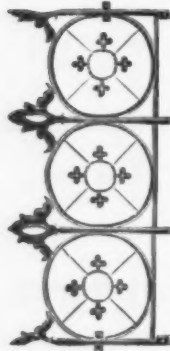
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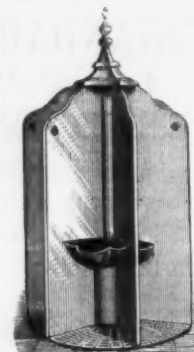
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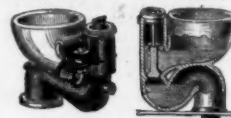
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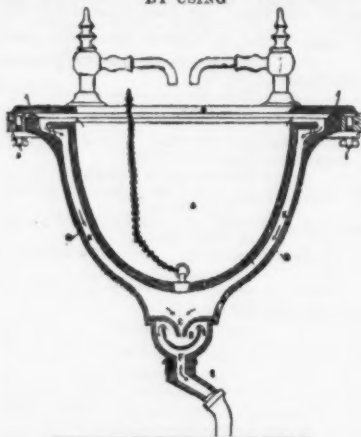
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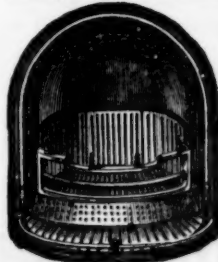
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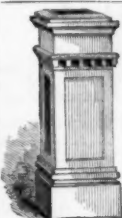
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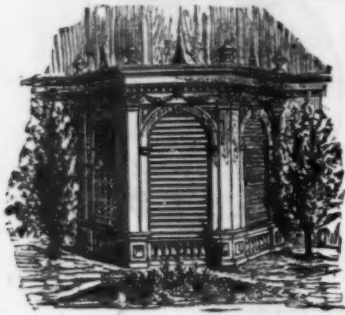
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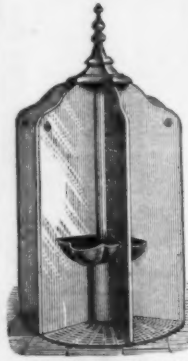
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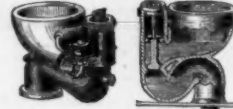
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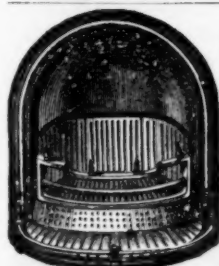
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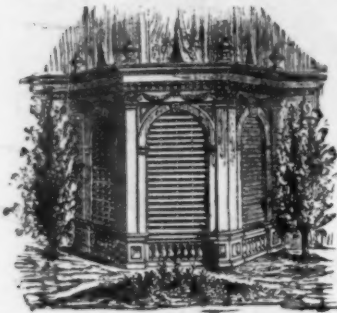
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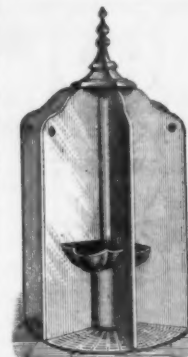
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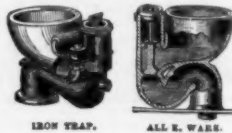
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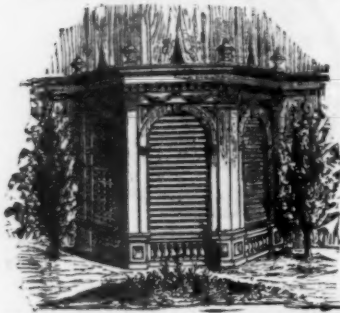
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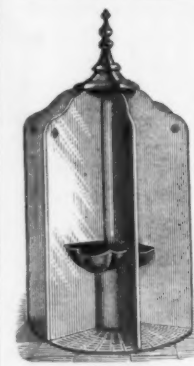
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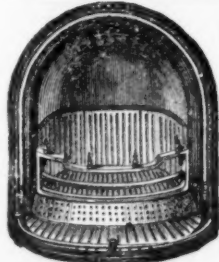
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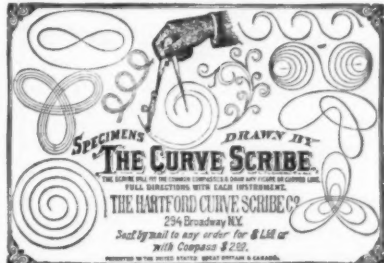
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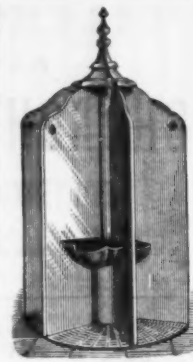
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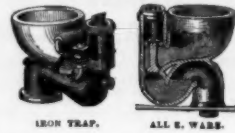
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ten per cent of the total sum of the tender, conditioned for  
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tract should be awarded to him. The bids must be indorsed  
for the work proposed to be done, and addressed to the Board  
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**HOSPITAL.**—Sealed Proposals will be re-  
ceived at the office of the Chief Quartermaster, De-  
partment of the South, Louisville, Ky., and also at the  
office of the Post Quartermaster, St. Augustine, Fla., until  
12 o'clock, M., Oct. 28, 1876, at which time and places  
they will be opened in presence of bidders, for the construction  
of St. Augustine Hospital, a Hospital Building, in ac-  
cordance with plans and specifications, which may be seen  
upon application at the offices of the Chief Quartermaster,  
Department of the South, Louisville, Ky.; the Post Quar-  
termaster, Jeffersonville, Ind.; and the Post Quartermaster,  
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piers of Coquina stone, 24 x 16 inches thick. Length of  
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price for which the building will be erected complete; and  
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**GAS SUPPLY.**—Sealed proposals will be  
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one o'clock, P. M., Saturday, Dec. 2, 1876, to supply the  
city of Quincy for a term of twenty-five years, from the 16th  
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party should fail to enter into contract after the acceptance  
of the bid by the authorities of the city of Quincy. By  
order of the City Council,  
FRED REARICK, Comptroller of City of Quincy, Ill.

**DREDGING.**—Proposals for Dredging and  
Embanking in Appomattox River, Virginia, will be re-  
ceived at the United States Engineer Office, Baltimore,  
Md., until one o'clock, P. M., of Oct. 18, 1876, and opened  
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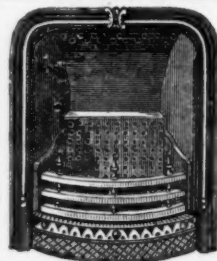
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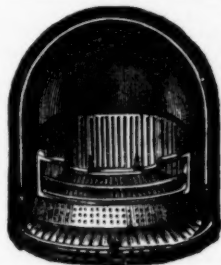
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# THE AMERICAN ARCHITECT

## AND BUILDING NEWS

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Vol. I. No. 43.]

BOSTON, SATURDAY, OCTOBER 21, 1876.

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PROPOSALS.

PROPOSALS FOR MATERIALS TO BE SUPPLIED TO THE NAVY YARDS UNDER THE COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

NAVY DEPARTMENT. BUREAU OF CONSTRUCTION AND REPAIR. WASHINGTON, D.C., September 24, 1876. Sealed proposals to furnish timber and other materials to the Navy for the fiscal year ending June 30, 1877, will be received at this Bureau until twelve o'clock, m., of Thursday, Nov. 16, 1876, at which time the bids will be opened.

The proposals must be addressed to the Chief of the Bureau of Construction and Repair, Navy Department, Washington, and must be endorsed "Proposals for Timber, &c., for the Navy," that they may be distinguished from ordinary business letters.

To prevent confusion and facilitate the opening of the bids, parties bidding for supplies at several yards will enclose their bids in separate envelopes for each yard, indorsed with the name of the yard for which the bid is made.

Printed schedules for such classes as parties deal in and intend to bid for, together with instructions for bidders, and the form of proposal, of guarantee, and of certificate of guarantors, with printed forms of offer, will be furnished to such persons as desire to bid on application to the Commandants of the respective Navy Yards, and those of all the yards on application to the Bureau.

The Commandant of each Navy Yard, and the purchasing Paymaster for each station, will have a copy of the schedules of the other yards, for examination only, in order that persons who intend to bid may judge whether it is desirable to make application for any of the classes of those yards.

The proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class, should the interest of the Government require it, before the execution of the contract. All applications for information, or for the examination of samples, must be made to the Commandants of the respective yards.

Bids or offers will be received only from parties who are bona fide dealers in, or manufacturers of, the articles they offer to furnish. The guarantors must be certified by the Collector of Internal Revenue for the district in which they reside.

The contract will be awarded to the person who makes the lowest bid and gives the guarantee required by law, the Navy Department, however, reserving the right to reject the lowest bid, or any which it may deem exorbitant.

Under the provisions of Section 3,722 of the Revised Statutes, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received.

Sureties in the full amount will be required to sign the contract, and their responsibility must be certified to the satisfaction of the Navy Department.

As an additional security, twenty per centum will be withheld from the amount of the bills until the contracts shall have been completed, and eighty per centum of the amount of each bill, approved in triplicate by the Commandants of the respective yards, will be paid by the Paymaster of the station designated in the contract, or, if none is specified, by the Paymaster of the station nearest the yard where the goods are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

The classes of this Bureau are numbered and designated as follows: No. 1, White Oak Logs; No. 12, White Pine Plank; Boards; No. 16, White Ash Oars; No. 22, Cypress, Cedar; No. 24, White Oak Staves and Headings; No. 25, Lignumvite; No. 33, Steel; No. 38, Iron Wrought Nails; No. 39, Iron Cut Nails; No. 42, Lead, pipe, sheet; No. 43, Zinc; No. 45, Locks, Hinges, Bolts, of brass and iron; No. 49, Screws, of brass and iron; No. 50, Files; No. 51, Augers; No. 52, Tools for ship stores; No. 53, Tools for use in yards and shops; No. 54, Hardware; No. 56, White Lead; No. 57, Zinc Paint; No. 58, Colored Paints, Dryers; No. 59, Linseed Oil; No. 60, Varnish, Spirits Turpentine; No. 63, Sperm and Lard Oil; No. 64, Tallow, Soap; No. 65, Fish Oil; No. 68, Glass; No. 69, Brushes; No. 70, Dry Goods for upholstery; No. 71, Stationery; No. 72, Crucibles; No. 74, Ship Chandlery; No. 74, Acid; No. 75, Rosin, Pitch, Crude Turpentine; No. 77, Belting, Tacking; No. 78, Leather; No. 89, Charcoal; No. 89, Wood.

PORTSMOUTH. Nos. 16, 25, 30, 42, 48, 50, 54, 58, 60, 63, 65, 69, 70, 73, 74, 86. Nos. 35, 38, 39, 42, 48, 49, 50, 52, 55, 54, 56, 57, 58, 59, 60, 63, 64, 65, 69, 70, 71, 74, 74, 75, 77, 78.

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WASHINGTON. Nos. 22, 39, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 65, 69, 70, 71, 72, 73, 74, 75, 77, 78, 88, 89.

MARE ISLAND. Nos. 22, 23, 25, 39, 49, 49, 50, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 65, 69, 70, 71, 73, 78.

GAS SUPPLY.—Sealed proposals will be received at the office of the City Comptroller, until one o'clock, p.m., Saturday, Dec. 3, 1876, to supply the city of Quincy for a term of twenty-five years, from the 16th day of May, 1878, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying a gas to be used in the city, public and private, during the term of twenty-five years.

STREET IMPROVEMENT.—Sealed proposals will be received by the Common Council of the city of LaFayette, Ind., up to Monday evening, Oct. 23, 1876, at which time the following work will be let to wit: For the improvement of the Alley between Fourth and Fifth Streets, and Main and Columbia Streets. Said work to be done according to specifications, and to be let to the lowest and best bidder, according to law. Specifications for said work can be seen at the office of the City Engineer. By order of the Common Council. JACOB KURTZ, City Clerk.

PROPOSALS.

RAILROAD LETTING.—Sealed proposals will be received until Tuesday, Oct. 24, 1876, at twelve o'clock, noon, for the grading, culvert, trestle, and bridge masonry, &c., of the Second, Third, and Fourth Divisions of the Miami Valley Narrow-gauge Railway, at the office of John B. Benedict, south-east corner of Crown and State Streets, Walnut Hills, Cincinnati, O.

Second Division, from M. and C. R. R. to Mason 16.30 miles. Third Division, from Mason to Lebanon 8.82 miles. Fourth Division, from Lebanon to Waynesville 11.35 miles. Total 36.47 miles.

The profile is now on exhibition at said office. Printed forms must be used, which, with the specifications, will be ready for distribution on or about Thursday, Oct. 19, 1876, and must (with the names and addresses of each member of a firm bidding, and of bondsmen, inclosed), be addressed to the undersigned, at his office. The right is reserved to let by divisions or by sections; also to reject any or all bids, in his discretion. JOHN B. BENEDICT.

HOSPITAL.—Sealed Proposals will be received at the office of the Chief Quartermaster, Department of the South, Louisville, Ky., and also at the office of the Post Quartermaster, St. Augustine, Fla., until 12 o'clock, m., Oct. 23, 1876, at which time and places they will be opened in presence of bidders, for the construction at St. Augustine, Fla., of a Hospital Building, in accordance with plans and specifications, which may be seen upon application at the offices of the Chief Quartermaster, Department of the South, Louisville, Ky.; the Depot Quartermaster, Jeffersonville, Ind.; and the Post Quartermaster, St. Augustine, Fla. The building will be two stories high, with a veranda ten feet wide extending entirely around it; to be constructed of wood (balloon frame), supported by piers of Coquina stone, 24 x 16 inches thick. Length of building, 78 feet 2 inches; depth, 26 feet 2 inches. The work to be completed, and the building to be ready for occupancy, by the first day of February, 1877. Bidders will state the price for which the building will be erected complete; and each proposal will be accompanied by the usual guaranty for the faithful performance of the contract, which will be awarded to the lowest responsible bidder. The Government, however, reserves the right to reject any or all bids. JAMES A. EKIN, Deputy Q. M. General, U. S. A.

VENTILATING.—Sealed Proposals for providing and fixing heating and ventilating apparatus will be received by the Board of New City Hall Commissioners for the city and county of San Francisco, in the room of the Board of Supervisors, corner of Leavenworth and McAllister Streets, between the hours of 12 noon and 1 o'clock, p.m., of Monday, Oct. 23, 1876. Proposals to be in accordance with the plans and specifications to be seen at the office of the Secretary, where forms of proposals and bonds will be furnished to intending bidders. The work to be completed in Hall of Records in fourteen weeks, and the whole work to be completed in the east wing of the Main Building in nine months, commencing from the day on which the contract is ready for the contractor's signature. No bids will be entertained unless made on blanks to be furnished by the Secretary of the Board, and accompanied by a bond with two or more good and efficient sureties, in a sum equal to ten per cent of the total sum of the tender, conditioned for the due entering into the contract by the bidder, if the contract should be awarded to him. The bids must be indorsed for the work proposed to be done, and addressed to the Board of New City Hall Commissioners, and to be in accordance with the plans and specifications to be seen at the office of the Secretary, where forms of proposals and bonds will be furnished to intending bidders. The work to be completed in Hall of Records in fourteen weeks, and the whole work to be completed in the east wing of the Main Building in nine months, commencing from the day on which the contract is ready for the contractor's signature. 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BUILDING MATERIALS.

LATEST NEW YORK QUOTATIONS.

Oct. 20, 1876.

Table with columns for BRICK, CEMENT, and FIRE BRICK, listing various types and prices.

Table for DOORS, WINDOWS, AND BLINDS, listing dimensions and prices for raised panels and moulded doors.

Table for GLAZED WINDOWS, listing dimensions and prices for different light configurations.

Table for INSIDE BLINDS, listing prices for different materials and finishes.

Table for WINDOW FRAMES, listing prices for different sizes and materials.

Table for HAIR, listing prices for different types and quantities.

Table for LIME, listing prices for different grades and quantities.

Table for GLASS, listing prices for different window types and sizes.

Table for FRENCH WINDOW, listing prices for different sizes and materials.

Table for SINGLE THICK - per box of 50ft, listing prices for various window sizes.

Table for DOUBLE THICK, listing prices for various window sizes.

Table for AMERICAN WINDOW, listing prices for various window sizes.

Table for FOREIGN WOODS, listing prices for different types of wood.

Table for GREENHOUSE, SKYLIGHT, AND FLOOR GLASS, listing prices for different types of glass.

Table for ROSEWOOD, listing prices for different types of wood.

Table for DOUBLE THICK, listing prices for various window sizes.

Additional text regarding window specifications and pricing.

Table for AMERICAN WINDOW, listing prices for various window sizes.

Table for FOREIGN WOODS, listing prices for different types of wood.

Table for GREENHOUSE, SKYLIGHT, AND FLOOR GLASS, listing prices for different types of glass.

Table for ROSEWOOD, listing prices for different types of wood.

Table for IRON, listing prices for different types of iron.

Table for TIN PLATES, listing prices for different types of tin plates.

Table for ZINC, listing prices for different types of zinc.

Table for POTTIER & STYMUS, listing prices for various products.

Table for TOSCH'S ENGRAVINGS, listing prices for different types of engravings.

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Table for PINE, listing prices for different types of pine.

Table for SPRUCE, listing prices for different types of spruce.

Table for HEMLOCK, listing prices for different types of hemlock.

Table for ASH, listing prices for different types of ash.

Table for OAK, listing prices for different types of oak.

Table for CHESTNUT, listing prices for different types of chestnut.

Table for CHERRY, listing prices for different types of cherry.

Table for WHITWOOD, listing prices for different types of whitewood.

Table for SHINGLES, listing prices for different types of shingles.

Table for LOCUST, listing prices for different types of locust.

Table for PAINTS AND OILS, listing prices for various types of paint and oil.

Table for PLASTER PARIS, listing prices for different types of plaster.

Table for SLATE, listing prices for different types of slate.

Table for SOLDERS, listing prices for different types of solders.

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Table for POTTIER & STYMUS, listing prices for various products.

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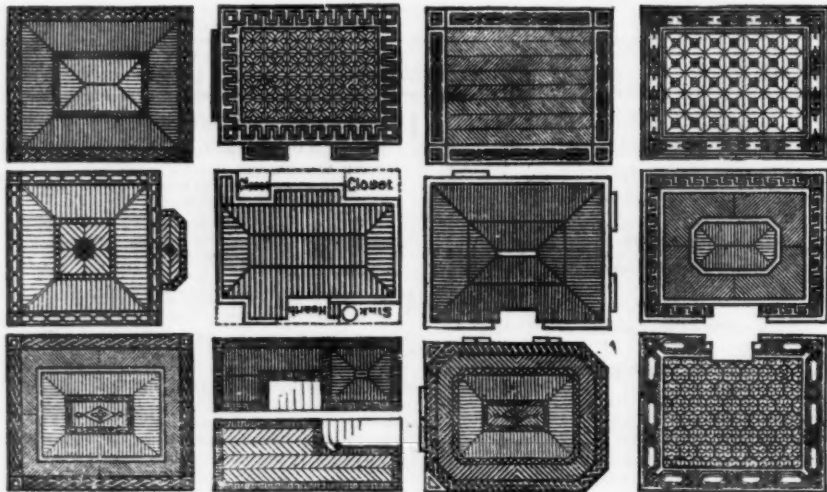
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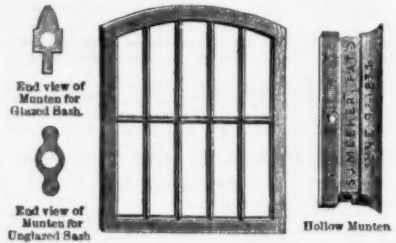
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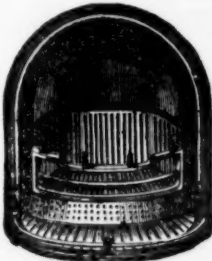
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The circulation of the ARCHITECT is national. Its subscribers and patrons reside in all sections of the country; and its value to those who desire that their business announcements should be read by their customers in all parts of the United States, and the Canadas, is obvious. We subjoin a list of those whose cards appear in this number of the ARCHITECT:

#### FIRST PAGE.

J. B. & J. M. Cornell, iron-work for buildings.  
Tatham & Brothers, tin-lined iron pipe.  
New England Lined Hose Manufacturing Company.  
Charles P. Williams, dealer in building stone.  
Charles Booth, glass stainer.  
S. W. Fuller, electric bells, annunciators, &c.  
George Barney, marble flooring tiles.  
Henry C. Hunt & Co., belting for elevators, hose, &c.  
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Smith & Van Noorden, galvanized iron cornices, &c.  
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Tufts Elevator Works.  
King Iron Bridge and Manufacturing Company.  
Archer & Ponceast Manufacturing Co., gas fixtures, ornamental bronzes, &c.  
Mitchell, Vance, & Co., designers and manufacturers of ornamental bronze and metal work.  
William A. Barnes, electric annunciators, door and call bells, &c.  
R. Hollings & Co., gas fixtures.  
W. J. McPherson, painter, decorator, and designer.  
Philip A. Butler, decorator and designer.  
Wallburg & Sherry, interior painters and decorators.  
L. Haberstroh, fresco painter.  
William S. Brazer, decorator and designer.  
Warner Bailey, sign and ornamental painter.

SECOND PAGE.

Fuller, Dana, & Fitz, metal merchants.  
New England Drain-Pipe Company.  
Walworth Manufacturing Company, steam and hot-water warming and ventilating apparatus.  
Cape Ann Granite Company.  
The Kittredge Cornice and Ornament Company.  
New England Felt-Roofing Company.  
M. W. Peirce & Co., steam, gas, and kerosene fixtures.  
Geo. F. Blake Manufacturing Company, steam pumps.  
Hawthorne & Tucker, plumbers' materials.  
Sayer & Fisher, light-colored pressed front brick, &c.  
Mons. C. J. Soyard, designer and maker of furniture.  
Henry B. Jones, paper hangings.  
George Brown, steam stone-dressing works.  
Murdock Parlor-Grate Company.  
J. Cartisser, ornamental, embossed, and cut glass.  
Andrew G. Paul, agent for Springfield Gas Machine.  
W. H. Kimball, improved wall and window ventilators.  
George Dwight, Jr., & Co., builders in iron.

Proposals for materials to be supplied to the Navy Yards; for supplying the city of Quincy, Ill., with gas for twenty-five years; for street improvements in the city of LaFayette, Ind.; for grading, culvert, trestle, and bridge masonry on the Miami Valley Narrow-gauge Railway; for hospital building at St. Augustine, Fla.; for ventilating apparatus, San Francisco; for iron superstructure of the north approach to the Ohio River Bridge; for steel wire for the New York and Brooklyn Bridge.  
Lienard's Decoration and Ornamentation.

#### THIRD PAGE.

Pottier & Stymus Manufacturing Company, interior wood-work, doors, trimmings, &c.  
Toschi's Engravings.

#### FOURTH PAGE.

The Gift-Book of the Season.  
National Wood Manufacturing Company, wood carpetings, parquet floors, &c.  
D. M. Meeker & Son, malleable iron hollow muntin window sash.  
Murdock Parlor-Grate Company.  
L. S. Moore & Co., Wellington's patent wash-bowl.  
Waldo Brothers, chimney tops, garden vases, &c.

#### FIFTH PAGE.

Wadsworth Brothers & Howland, architects' and engineers' stationery, colors, &c.  
The National Wood Manufacturing Company, wood carpeting, &c.  
John W. Marshall, architect, general agent for the Rogers patent wooden houses.  
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#### SIXTH PAGE.

To Architects and Builders.  
North American Review, October, 1876.  
Massachusetts Institute of Technology.  
Engravings from Landseer.

#### SEVENTH PAGE.

Otto F. Falck & Schwabe, stained glass, &c.  
James R. Osgood & Co.'s publications.  
William J. Dana, designing and wood engraving.  
National Fine Art Foundry, artistic bronze decoration.  
E. & G. G. Hook & Hastings, builders of church organs.  
LeBosquet Brothers, steam-heating apparatus.  
Portland Stone Ware Company, vitrified drain-pipe.  
A. J. Bicknell & Co., architectural book publishers.  
The American Architect and Building News.  
American Spiral-Spring Butt Company.  
Asabel Wheeler, constant white paint.  
J. W. Grigg, enameled slate mantels, &c.

#### EIGHTH PAGE.

Wilson & James, rolling wood shutters.  
The Yale Lock Manufacturing Company.  
Palmer, Parker, & Co., vendors of all kinds.  
Clark & Co., patent self-colling revolving steel shutters.  
Jennings's Sanitary Depot, A. G. Myers, manager, all kinds of plumbers' supplies.  
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### NORTH AMERICAN REVIEW,

OCTOBER, 1876.

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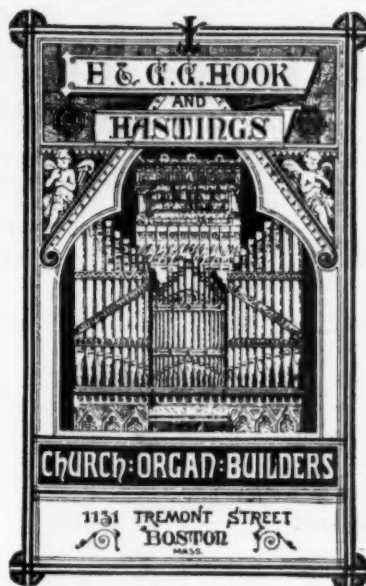
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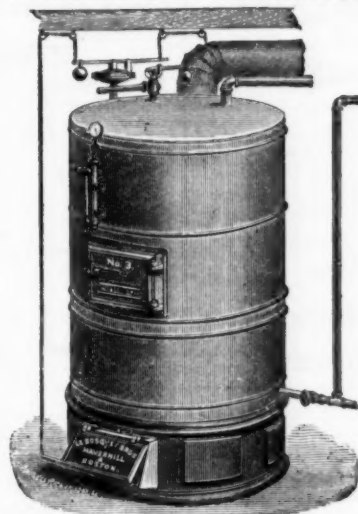
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PROPOSALS.

SCHOOL HOUSE. - Sealed proposals will be received by the School Trustees of the Twenty-second Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until Tuesday, the 31st day of October, 1876, and until 4 o'clock, P.M., on said day, for the erection of a new School House on the south side of West 8th Street, one hundred feet east of 10th avenue.

Plans and specifications may be seen at the office of the Superintendent of School Buildings, No. 164 Grand Street, third floor. Proposals must state the estimate for each branch of the work separately, and be indorsed "Proposal for Mason Work," "Proposal for Carpenter Work," "Proposal for Painting."

Two responsible and approved sureties, residents of this city, will be required from each successful bidder. The parties submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal. The Trustees reserve the right to reject any or all of the proposals submitted.

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SEWERAGE. - Sealed proposals will be received by the Board of Trustees of the Columbus Hospital for the Insane, and the Ohio State Asylum for Idiots, acting conjointly, at No. 76 North High Street, Columbus, O., until Thursday, Nov. 9, 1876, at 12 o'clock, noon, for furnishing the materials and doing the work upon System of Sewerage, Water-head and Supply for Columbus Hospital for the Insane, and Ohio State Asylum for Idiots. Bid will be received -

- 1st. For all pipes and special castings. 2d. For excavating trenches and laying pipes, including the furnishing and laying of the pipes, back-filling, masonry required for pipes and earth-fills. 3d. For furnishing all materials, and building of pump and boiler houses, coal houses, smoke-stacks, filtering-basin, gallery, water-way, cisterns, and other masonry. 4th. For four pumps, including all connections. 5th. For boilers, complete, including furnaces, all necessary fittings and connections. 6th. For all valves needed, with castings and top covers. 7th. For the work as a whole. Plans and specifications may be seen at the offices of both institutions, after October 19th, where further information can be had. Bids will be directed to Dr. N. S. Townshend, President of the Joint Board, and left with H. D. Rogers, Esq., President of Board of Trustees of Columbus Hospital for Insane, No. 76 North High Street. N. S. TOWNSHEND, President of Joint Board.

HOSE. - Proposals for eight thousand feet, or such quantity as may be needed for the current year, of Steam Fire Engine Hose, will be received at the office of the Fire Marshal, Chicago, Ill., until November 1, 1876. Said proposals to be made in conformity with specifications on blanks for that purpose furnished by the Fire Marshal, indorsed "Proposals for Hose," sealed and addressed to the Fire Marshal on or before the time above stated. The Fire Marshal reserving the right to reject any and all proposals. M. BENNER, Fire Marshal.

WALLS. - Proposals, in triplicate, with a copy of this advertisement attached, will be received at the Office of National Cemeteries, Washington, D.C. until Wednesday, Nov. 15, 1876, for the construction of enclosing walls of brick or stone around the National Cemeteries at Yorktown, Va., and Beaufort and Florence, S.C. Copies of plans and specifications may be seen, and blank forms of proposals procured, at this office, and at the Quartermaster's Offices in New York City (corner of Houston and Greene Streets), at Fort Monroe, Va., Charleston, S.C., Louisville, Ky., Baltimore, Md., and at the Cemeteries above named. Proposals should be indorsed, "Proposals for Walls for National Cemeteries," and addressed to the undersigned. They will be opened at noon on the date specified, when bidders are invited to be present. A. F. ROCKWELL, Captain and A. Q. M.

TIES. - Sealed Proposals will be received at the Office of the Denver and San Juan Railroad Construction Company, in Denver, Col., until the 11th of November next, for furnishing ties for sections 9 to 52 inclusive, forty-four miles on the Denver, South Park, & Pacific R. R., 2,800 ties to each mile, distributed 7 ties to every 13 feet, on the edge of the road-bed, ready for track-layers; size of ties, 7 inches face, 7 inches thick, 6 1/2 feet long, barked. May be delivered any time after the road-bed is graded, but none will be received or paid for before April next. Payments will be made monthly in cash. Bidders may offer to furnish ties on any number of sections. Bonds will be required in amount of the value of the ties, for fulfillment of contract. N. B. - Sections 9 to 20 are between Bear Creek and mouth of Platte Canon; sections 21 to 29 are from mouth of canon to forks of Platte; sections 30 to 39 are between forks of Platte and mouth of Buffalo Creek; and sections 40 to 53 inclusive are between the mouth of Buffalo Creek and Bailey's ranch. The Company reserves the right to reject any or all bids. J. W. SMITH, President.

GAS SUPPLY. - Sealed proposals will be received at the office of the City Comptroller, until one o'clock, P.M., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-five years, from the 16th day of May, 1878, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying a gas to be used in the city, public and private, during the term of twenty-five years. The present requirements are a supply for 60 street lamps, and the average demand for private consumption is about 30,000 feet every twenty-four hours. The public lamps must be kept burning from twilight in the evening till dawn of day in the morning. The bids should state the price for gas supply, and also the price for lighting, cleaning, and keeping in repair the street lamps, and also the price per 1,000 feet to be paid by private consumers. All bids must be accompanied by a good and sufficient bond in the sum of \$10,000, to be forfeited in case the party should fail to enter into contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council. FRED REARICK, Comptroller of City of Quincy, Ill.

STEEL WIRE. - Proposals will be received up to Dec. 1, 1876, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N.Y., for the manufacture and delivery of 3,406 net ton of No. 8 galvanized steel cable wire, to be used in the construction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information, will be furnished upon application to this office. W. A. ROEBLING, Chief Engineer.

PROPOSALS.

PROPOSALS FOR MATERIALS TO BE SUPPLIED TO THE NAVY YARDS UNDER THE COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

NAVY DEPARTMENT, BUREAU OF CONSTRUCTION AND REPAIR, WASHINGTON, D.C., September 28, 1876. Sealed proposals to furnish timber and other materials to the Navy for the fiscal year ending June 30, 1877, will be received at this Bureau until twelve o'clock, M., of Thursday, Nov. 16, 1876, at which time the bids will be opened. The proposals must be addressed to the Chief of the Bureau of Construction and Repair, Navy Department, Washington, and must be indorsed "Proposals for Timber, &c., for the Navy," that they may be distinguished from ordinary business letters. To prevent confusion and facilitate the opening of the bids, parties bidding for supplies at several yards will enclose their bids in separate envelopes for each yard, indorsed with the name of the yard for which the bid is made.

Printed schedules for such classes as parties deal in and intend to bid for, together with instruction for bidders, giving the forms of proposal, of guarantee, and of certificate of guarantors, with printed forms of offer, will be furnished to such persons as desire to bid on application to the Commandants of the respective Navy Yards, and those of all the yards on application to the Bureau. The Commandant of each Navy Yard, and the purchasing Paymaster for each station, will have a copy of the schedules of the other yards, for examination only; in order that persons who intend to bid may judge whether it is desirable to make application for any of the classes of those yards.

The proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class should the interest of the Government require it, before the execution of the contract. All applications for information, or for the examination of samples, must be made to the Commandants of the respective yards. Under the provisions of Section 3,722 of the Revised Statutes, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received. Sureties in the full amount will be required to sign the contracts, and their responsibility must be certified to the satisfaction of the Navy Department.

As additional security, twenty per centum will be withheld from the amount of the bills until the contracts shall have been completed, and eighty per centum of the amount of each bill, approved in triplicate by the Commandants of the respective yards, will be paid by the Paymaster of the station designated in the contract, or, if none is specified, by the Paymaster of the station nearest the yard where the goods are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

The classes of this Bureau are numbered and designated as follows: No. 1, White Oak Logs; No. 13, White Pine Plank, Board, &c.; No. 16, White Ash, Oak; No. 22, Cypress, Cedar; No. 24, White Oak Staves and Hoopings; No. 25, Lignum-vitae; No. 25, Steel; No. 28, Iron Wrought Nails; No. 29, Iron Cut Nails; No. 42, Lead, pipe, sheet; No. 43, Zinc; No. 45, Locks, Hinges, Bolts, of brass and iron; No. 49, Screws, of brass and iron; No. 50, Files; No. 51, Augers; No. 52, Tools for ship stores; No. 53, Tools for use in yards and shops; No. 54, Hardware; No. 56, White Lead; No. 57, Zinc Paint; No. 58, Colored Paints, Dryers; No. 59, Linseed Oil; No. 60, Varnish, Spirits Turpentine; No. 63, Spermaceti and Lard Oil; No. 64, Tallow, Soap; No. 65, Fish Oil; No. 68, Glass; No. 69, Brushes; No. 70, Dry Goods for upholstering; No. 71, Stationery; No. 72, Crucibles; No. 73, Ship Chandlery; No. 74, Acid; No. 75, Resin, Pitch, Crude Turpentine; No. 77, Belting, Packing; No. 78, Leather; No. 88, Charcoal; No. 89, Wood.

The following are the classes, by the numbers, required at the respective navy yards: - PORTSMOUTH. Nos. 16, 25, 39, 43, 48, 50, 54, 58, 60, 62, 65, 69, 70, 73, 74, 88. BOSTON. Nos. 35, 38, 39, 42, 48, 49, 50, 52, 55, 54, 56, 57, 58, 59, 60, 63, 64, 65, 69, 70, 71, 73, 74, 75, 77, 78. NEW YORK. Nos. 22, 42, 43, 56, 57, 58, 59, 60, 63, 65, 75. LEAGUE ISLAND. Nos. 25, 39, 30, 43, 45, 48, 50, 52, 53, 54, 60, 63, 64, 68, 69, 70, 71, 73, 75, 77, 78, 88. WASHINGTON. Nos. 22, 39, 48, 49, 50, 51, 52, 54, 56, 57, 58, 59, 60, 63, 64, 65, 68, 70, 71, 72, 73, 74, 75, 77, 78, 88, 89. NORFOLK. Nos. 22, 25, 35, 39, 48, 49, 50, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 73, 77, 78. MARE ISLAND. Nos. 16, 24, 25, 41, 43, 48, 49, 52, 53, 54, 55, 56, 57, 58, 59, 60, 63, 64, 65, 68, 69, 70, 71, 73, 78.

CONVICT LABOR. - Sealed Proposals will be received at the Commissioners' Office, Joliet, Ill., by the undersigned, up to 2 o'clock, P.M., Nov. 10, 1876, for the labor of four hundred convicts. These men are able-bodied, and adapted to most any and all kinds of labor, and a large portion of them to stone-cutting. Ample shop room and steam power will be furnished. Contracts to run not less than five nor more than eight years. All proposals must be accompanied by a good and sufficient bond conditioned that contract and bond will be entered into if proposal is accepted. For further particulars, address the undersigned, or E. W. McCLAGHRT, Warden at the Prison. WOODBURY M. TAYLOR, JOHN M. SOUTHWORTH, ROBERT D. NOLEMAN, Commissioners Illinois State Penitentiary.

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LATEST NEW YORK QUOTATIONS.

Oct. 27, 1876.

BRICK. Cargo Afloat. Pale... Jersey... Long Island... Up-River... Haverstraw Bay... Haverstraw Bay, choice... Yard prices, 50 c. per M. higher, or, with delivery added, \$2 per M. for Hard, and \$3 per M. for Front Brick.

FRONTS. Croton - Brown... Croton - Red... Philadelphia... Trenton... Baltimore... For delivery, add \$5 on Philadelphia and Trenton, and \$6 on Baltimore.

CEMENT. Rosendale... Portland... Roman... Keene's coarse... Keene's fine... FIRE BRICK. Red Welsh... Scotch... American.

DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES. 2.0 x 6.0... 2.6 x 6.6... 2.6 x 6.8... 2.8 x 6.8...

DOORS, MOULDED. Size. 1 1/2 in. 1 3/4 in. 1 1/2 in. 2.0 x 6.0... 2.6 x 6.6... 2.6 x 6.8... 2.6 x 7.0... 2.8 x 6.8... 2.8 x 7.0... 2.10 x 6.0... 3.0 x 7.0...

GLAZED WINDOWS. Dimensions of Windows. 12 Lights. 8 Lights. 4 Lights. 2.1 x 3.6... 2.4 x 3.0... 2.7 x 4.6... 2.7 x 4.0... 2.7 x 5.2... 2.7 x 5.0... 2.10 x 4.6... 2.10 x 5.2... 2.10 x 5.6... 2.10 x 5.0...

OUTSIDE BLINDS. Per lineal foot, up to 2.10 wide... Per lineal foot, up to 3.1 wide... Per lineal foot, up to 3.4 wide... Per lineal foot, painted and trimmed... INSIDE BLINDS. Per lineal foot, 4 folds, Pine... Per lineal foot, 4 folds, Ash or Chestnut... Per lineal foot, 4 folds, Cherry or Butternut... Per lineal foot, 4 folds, Black Walnut...

WINDOW FRAMES. Up to 3.4 x 7.2, put together... HAIR. - Duty free. Cattle... Goat... LIME. State, common, cargo rate... State, finishing... Rockland, common... Rockland, finishing... Ground...

GLASS. Duty. - Window, Polished Cylinder and Crown, not over 10 x 15 in. 2 1/2 c. per sq. ft.; larger, and not over 16 x 24 in. 4c. per sq. ft.; larger, and not over 24 x 30 in. 6c. per sq. ft.; above that, and not exceeding 24 x 60 in. 20c. per sq. ft.; all above that, 40 ct. per sq. ft. On Unpolished Cylinder, Crown, and Common Window, not exceeding 10 x 15 in. sq. 1 1/2 c.; over that, and not over 16 x 24, 2c.; over that, and not over 24 x 30, 2 1/2 c.; all over that, 3c. per lb. FRENCH WINDOW. List of March 1, 1876. SINGLE THICK - per box of 50ft. Sizes. 1st. 2d. 3d. 4th. x 8 - 7 x 9... 15 x 10 - 10 x 15... 18 x 14 - 12 x 16... 18 x 24 - 14 x 24... 18 x 24 - 15 x 32... 20 x 32 - 20 x 30... 21 x 30 - 15 x 38... 21 x 34 - 22 x 36... 24 x 36 - 24 x 40... 24 x 42 - 28 x 42... 26 x 46 - 30 x 48... 30 x 50 - 32 x 52... 32 x 54 - 34 x 56... 34 x 58 - 34 x 60... 36 x 60 - 40 x 60...

DOUBLE THICK. 6 x 8 - 7 x 9... 8 x 10 - 10 x 15... 11 x 14 - 12 x 16... 11 x 18 - 14 x 24... 15 x 24 - 15 x 32... 16 x 32 - 20 x 30... 22 x 30 - 15 x 38... 20 x 34 - 22 x 36... 24 x 36 - 24 x 40... 24 x 42 - 28 x 42... 26 x 46 - 30 x 48... 30 x 50 - 32 x 52... 32 x 54 - 34 x 56... 34 x 58 - 34 x 60... 36 x 60 - 40 x 60...

Sizes above, \$15 per box extra for every five inches. An additional 10 per cent will be charged for all glass more than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will be charged in the 84 united inches bracket. Discount to the trade, 60 and 20 @ 60 and 25 per cent.

AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th. 6 x 8 - 10 x 15... 11 x 14 - 12 x 13... 10 x 16 - 14 x 26... 18 x 22... 26 x 26 - 20 x 30... 25 x 30 - 24 x 30... 21 x 28 - 24 x 36... 26 x 36 - 26 x 44... 28 x 44 - 30 x 50... 30 x 52 - 30 x 54... 30 x 56 - 34 x 56... 34 x 58 - 34 x 60... 36 x 60 - 40 x 60...

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ROSEWOOD. Rio Janeiro, ordinary to good... Rio Janeiro, good to fine... Bahia, ordinary to good... Bahia, good to fine... Honduras... Satinwood... Tulipwood... LIGNUMVITAE, large... IRON. Duty. - Bar, 1 to 1 1/2 c. per lb.; Railroad, 70c per 100 lb.; Boiler and Plate, 1 1/2 c. per lb.; Sheet, Band, Hoop and Scrap, 1 1/2 to 1 3/4 c. per lb.; Pig, 87 per ton; Polished Sheet, 3c. per lb.; Galvanized, 2 1/2 c. per lb.; Scrap Cast, \$6 per ton; Scrap Wrought, \$8 per ton - all less 10 percent. No Bar Iron to pay a less duty than 35 per cent ad val. Pig, Scotch, Coltness... Pig, Scotch, Gartsherrie... Pig, Scotch, Glengarnock... Pig, Scotch, Eglinton... Pig, American, No. 1... Pig, American, No. 2... Bar, refined, English and American... Bar, Swedes, assorted sizes (gold)... Bar, Swedes, ordinary sizes... Bar, Swedes, plow sizes... Bar, refined, 1/2 to 2 in. rd. & sq. - 1 to 6 in. x 1/2 to 1 in... Bar, refined, 1 1/2 to 6 x 1/2 & 5-16 in... Large rounds, 2 1/2 & 2 3/4... Scroll... Ovals and half round... Band, 1 to 6 in. x 3-16 to No. 12... Horseshoe... Rods, 1/2 to 3-16 in... Hoop, 1/2 to 2 to 1 & 1 1/2 x 13 & 14... Nail rod... Sheet, Russia, as to assortment (gold)... Sheet, singles, doubles, and trebles, common... Sheet, doubles and trebles, charcoal... Sheet, galvanized... Rails, American (currency)...

LATH. - Cargo rate... LUMBER. Pine, very choice, and extra dry... Pine, good... Pine, shipping box... Pine, common box... Pine, common box... Pine, tally plank, 1 1/2, 10 in., dressed each... Pine, tally plank, 1 1/2, 2d quality... Pine, tally planks, 1 1/2, culls...

Pine, tally boards, dressed, good... Pine, tally boards, dressed, common... Pine, tally boards, culls... Pine, strip boards, merchantable... Pine, strip boards, clear... Pine, strip plank, dressed, clear... Spruce boards, dressed... Spruce plank, 1 1/2 in. dressed... Spruce plank, 2 in... Spruce wall strips... Spruce timber... Spruce boards, each... Hemlock joist, 2 1/2 x 4... Hemlock joist, 3 x 4... Hemlock joist, 4 x 6... Ash, good... Oak... Maple... Chestnut boards, 1 in... Chestnut plank... Cypress, 1, 1 1/2, 2, and 2 1/2 in... Black Walnut, good... Black Walnut, 1/2... Black Walnut, selected and seasoned... Black Walnut counters... Cherry, good... Whitewood, chair plank... Whitewood, inch... Whitewood, 1/2 in... Whitewood, 3/4 panels... Shingles, extra shaved pine, 18 in... Shingles, extra shaved pine, 16 in... Shingles, extra sawed pine, 18 in... Shingles, clear sawed pine, 18 in... Shingles, cypress, 24 x 7... Shingles, cypress, 20 x 6... Yellow pine dressed flooring... Yellow pine girders... Locust posts, 8 ft... Locust posts, 10 ft... Locust posts, 12 ft... Chestnut posts...

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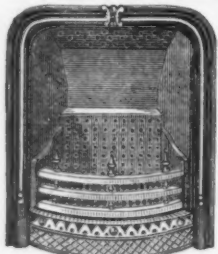
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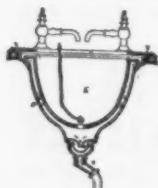
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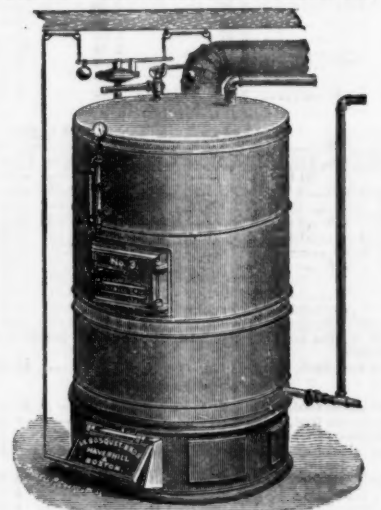


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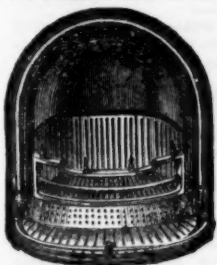


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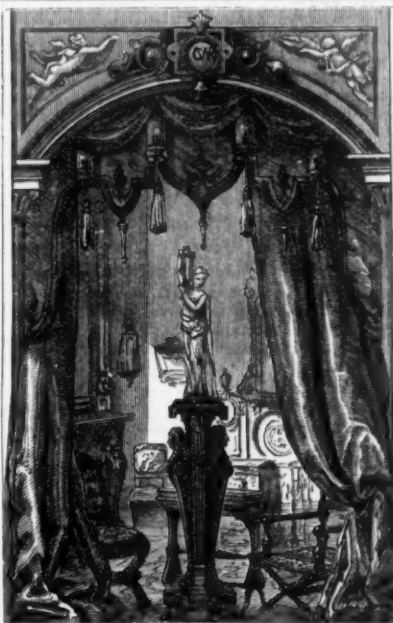
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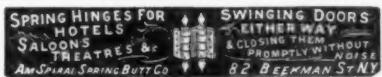
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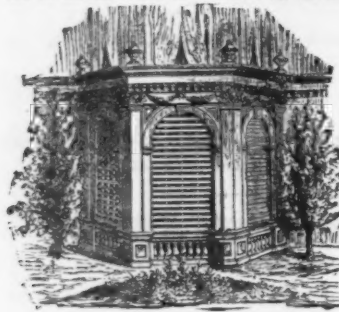
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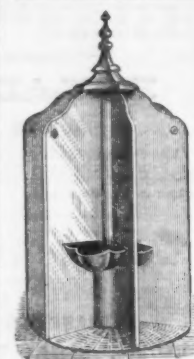
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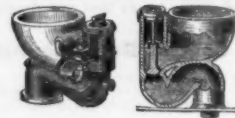
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# AMERICAN ARCHITECT

## AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. I. No. 45.]

SATURDAY, NOVEMBER 4, 1876.

[PRICE 15 CENTS.]

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Mr. HOYT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

PROPOSALS FOR IMPROVEMENT OF CAPE FEAR RIVER, N. C.

U. S. ENGINEER OFFICE, UNION BANK BUILDING, BALTIMORE, Md., Oct. 25, 1876.

Proposals for continuing work for the construction of the New Inlet, Cape Fear River, N. C., will be received at this office until noon of Nov. 8, 1876, and opened immediately thereafter.

Blank forms, specifications, and any desired information can be had on application at this office. WILLIAM P. CRAIGHILL, Major of Engineers.

TO CONTRACTORS.—A party contemplating erecting a building to cost about \$40,000 would like to receive bids for the entire structure, where the parties estimating would be willing to take good first mortgages amounting to about \$18,000 as part pay, and the balance in cash. Those willing to figure on this basis will please address P. O. Box 3543, Boston.

PROPOSALS.

PROPOSALS FOR MATERIALS TO BE SUPPLIED TO THE NAVY YARDS UNDER THE COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

NAVY DEPARTMENT, BUREAU OF CONSTRUCTION AND REPAIR.

WASHINGTON, D. C., September 23, 1876. Sealed proposals to furnish timber and other material to the Navy for the fiscal year ending June 30, 1877, will be received at this Bureau until twelve o'clock, a. m., of Thursday, Nov. 16, 1876, at which time the bids will be opened.

The proposals must be addressed to the Chief of the Bureau of Construction and Repair, Navy Department, Washington, and must be endorsed "Proposals for Timber, &c., for the Navy," that they may be distinguished from ordinary business letters.

To prevent confusion and facilitate the opening of the bids, parties bidding for supplies at several yards will enclose their bids in separate envelopes for each yard, indorsed with the name of the yard for which the bid is made.

Printed schedules for such classes as parties deal in and intend to bid for, together with instructions for bidders, giving the forms of proposal, of guarantee, and of certificate of guarantors, with printed forms of offer, will be furnished to such persons as desire to bid on application to the Commandants of the respective Navy Yards, and those of all the yards on application to the Bureau.

The Commandant of each Navy Yard, and the purchasing Paymaster for each station, will have a copy of the schedules of the other yards, for examination only, in order that persons who intend to bid may judge whether it is desirable to make application for any of the classes of those yards.

The proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class, should the interest of the Government require, before the execution of the contract. All applications for information, or for the examination of samples, must be made to the Commandants of the respective yards.

Bids or offers will be received only from parties who are bona fide dealers in, or manufacturers of, the articles they offer to furnish. The guarantors must be certified by the Collector of Internal Revenue for the district in which they reside.

The contract will be awarded to the person who makes the lowest bid and gives the guarantee required by law, the Navy Department, however, reserving the right to reject the lowest bid, or any which it may deem exorbitant.

Under the provisions of Section 3,722 of the Revised Statutes, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received.

Sureties in the full amount will be required to sign the contract, and their responsibility must be certified to the satisfaction of the Navy Department.

As an additional security, twenty per centum will be withheld from the amount of the bills until the contracts shall have been completed, and eighty per centum of the amount of each bill, approved in triplicate by the Commandants of the respective yards, will be paid by the Paymaster in the station designated in the contract, or, if none is specified, by the Paymaster of the station nearest the yard where the goods are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

The classes of this Bureau are numbered and designated as follows:

- No. 1, White Oak Logs; No. 13, White Pine Plank; Boards; No. 18, White Ash Bars; No. 22, Cypress, Cedar; No. 24, White Oak staves and headstuds; No. 25, Lumber; No. 26, Staves; No. 28, Iron Wrought Nails; No. 29, Iron C. & L. Nails; No. 42, Lead, p. sheet; No. 43, Zinc; No. 45, Locks, Hinges, Bolts, of brass and iron; No. 47, Screws, of brass and iron; No. 50, Files; No. 51, Augers; No. 52, Tools for ship stores; No. 53, Tools, master in yard and shops; No. 54, Hardware; No. 56, White Lead; No. 57, Zinc Paint; No. 58, Colored Paints, Dryers; No. 59, Linseed Oil; No. 60, Varnish, Spirits Turpentine; No. 63, Sperm and Land Oil; No. 64, Tallow, Seam; No. 65, Fish Oil; No. 68, Glass; No. 69, Brushes; No. 70, Dry Goods for upholstery; No. 71, Stationery; No. 72, Crucibles; No. 74, Ship Chandlery; No. 74, Acid; No. 75, Rosin, Pitch, Crude Turpentine; No. 77, Belting, Packing; No. 78, Leather; No. 88, Charcoal; No. 88, W. Wood.

The following are the classes, by the numbers, required at the respective navy yards:—

PORTSMOUTH. Nos. 16, 25, 29, 43, 48, 50, 54, 58, 60, 63, 65, 69, 70, 73, 74, 88.

BOSTON. Nos. 33, 38, 39, 42, 48, 49, 50, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 74, 75, 77, 78.

NEW YORK. Nos. 22, 42, 43, 56, 57, 58, 59, 60, 63, 65, 73.

WASHINGTON. Nos. 23, 28, 39, 49, 45, 48, 50, 52, 53, 54, 56, 63, 64, 68, 69, 70, 71, 73, 75, 77, 78, 88.

WASHINGTON. Nos. 22, 39, 48, 49, 50, 51, 52, 54, 54, 56, 57, 58, 59, 60, 63, 64, 68, 70, 71, 72, 73, 74, 75, 77, 78, 88.

NORFOLK. Nos. 22, 23, 35, 39, 48, 49, 50, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 73, 77, 78.

MARE ISLAND. Nos. 16, 24, 25, 43, 45, 48, 49, 52, 53, 54, 55, 56, 57, 58, 59, 60, 63, 64, 65, 68, 69, 70, 71, 73, 75.

HOSE. U. S. NAVY YARD, WASHINGTON. COMMANANT'S OFFICE, Oct. 23, 1876. For the purpose of submitting for examination and test to a board appointed by the Navy Department with the view of establishing a standard hose for use in the United States Navy, in manufacturers of cotton-canvas, rubber-lined hose, are hereby invited to deliver in this Navy Yard, by the 1st of November next, free of any expense to the Government, specimens of said hose, in lengths of twenty-five (25) feet each, with couplings of Work's patent attached. Each specimen must bear the name of the manufacturer, with cost of same per foot, including also the cost of couplings.

JOHN FERBER, Commodore U. S. N. Commandant.

METAL FOR FERRY-BOAT.—CITY OF BOSTON. FERRY DEPARTMENT.—Sealed proposals will be received at the office, North Ferry, on or before Thursday, Nov. 2, at three o'clock, p. m., for furnishing stock for metalting the steamer Revere; viz. 120 sheets 30-oz. metal, 200 sheets 26-oz., the balance to be of 22 and 20 oz.; same to be delivered at wharf in East Boston. Proposals to be addressed to George W. Sampson, Chairman, and marked "Proposal for metalting." Directors reserving the right to reject any or all proposals. Per order.

T. C. WHITTEMORE, Clerk.

STEEL WIRE.—Proposals will be received up to Dec. 1, 1876, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N. Y., for the manufacture and delivery of 3,400 net tons of No. 8 galvanized steel cable wire, to be used in the construction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information, will be furnished upon application to this office.

W. A. ROEBLING, Chief Engineer.

PROPOSALS.

SEWERAGE.—Sealed proposals will be received by the Board of Trustees of the Columbus Hospital for the Insane, and the Ohio State Asylum for Idiots, acting conjointly, at No. 76 North High Street, Columbus, O., until Thursday, Nov. 9, 1876, at 12 o'clock, noon, for furnishing the materials and doing the work upon System of Sewerage, Water-head and supply for Columbus Hospital for the Insane, and Ohio State Asylum for Idiots. Bids will be received,—

- 1st. For all pipes and special castings.
  - 2d. For excavating trenches and laying pipes, including the furnishing and laying of the pipes, back-filling, masonry required for pipes and earth-fills.
  - 3d. For furnishing all materials, and building of pump and boiler houses, coal houses, smoke-stacks, filtering-basin, gallery, water-way, cisterns, and other masonry.
  - 4th. For four pumps, including all connections.
  - 5th. For boilers, complete, including furnaces all necessary fittings and connections.
  - 6th. For all valves needed, with castings and top covers.
  - 7th. For the work as a whole.
- Plans and specifications may be seen at the offices of both institutions, after October 10th, where further information can be had.
- Bids will be directed to Dr. N. S. Townshend, President of the Joint Board, and left with H. D. Rogers, Esq., President of the Board of Trustees of Columbus Hospital for Insane, No. 76 North High Street.
- N. S. TOWNSHEND, President of Joint Board.

CONVICT LABOR.—Sealed Proposals will be received at the Commissioners' Office, Joliet, Ill., by the undersigned, up to 2 o'clock, p. m., Nov. 10, 1876, for the labor of four hundred convicts. These men are able-bodied, and adapted to most any and all kinds of labor, and a large portion of them to stone-cutting. Ample shop room and steam power will be furnished. Contracts to run not less than five nor more than eight years. All proposals must be accompanied by a good and sufficient bond conditioned that contract and bond will be entered into if proposal is accepted. For further particulars, address the undersigned, or R. W. McCLAGHRY, Warden at the Prison.

WOODRUB M. AYLER, JOHN M. SOUTHWORTH, ROBERT D. NOLEMAN, Commissioners Illinois State Penitentiary.

WALL.—Proposals, in triplicate, with a copy of this advertisement attached, will be received at the Office of National Cemeteries, Washington, D. C., until Wednesday, Nov. 15, 1876, for the construction of enclosing wall of brick or stone around the National Cemeteries at Yorktown, Va., and Beaufort and Florence, S. C. Copies of plans and specifications may be seen, and blank forms of proposals procured, at this office, and at the Quartermaster's Offices in New York City (corner of Houston and Broadway), at Fort Monroe, Va., Charleston, S. C., Louisville, Ky., Baltimore, Md., and at the Cemeteries above named. Proposals should be indorsed, "Proposals for Walls for National Cemeteries," and addressed to the undersigned. They will be opened at noon on the date specified, when bidders are invited to present.

A. F. ROCKWELL, Captain and A. Q. M.

TIES.—Sealed Proposals will be received at the Office of the Denver and Salt Lake Railroad Construction Company in Denver, Col., until the 11th of November next, for furnishing ties for sections 9 to 63 inclusive, forty-four miles on the Denver, South Park, & Pacific R. R., 2,800 ties to each mile, distributed, 7 ties to every 13 feet, on the edge of the road-bed, ready for track-layers; size of ties, 7 inches face, 7 inches thick, 6 1/2 feet long, barked. May be delivered any time after the road-bed is graded, but none will be received or paid for before April next. Payments will be made monthly in cash. Bidders may offer to furnish ties on any number of sections. Bidders will be required to deposit with the amount of the value of the ties, for fulfillment of contract. N. B.—Sections 9 to 20 are between Bear Creek and mouth of Platte Canon; sections 21 to 29 are from mouth of canon to forks of Platte; sections 30 to 39 are between forks of Platte and mouth of Buffalo Creek; and sections 40 to 63 inclusive are between the mouth of Buffalo Creek and Bailey's ranch. The Company reserves the right to reject any or all bids.

J. W. SMITH, President.

GAS SUPPLY.—Sealed proposals will be received at the office of the City Comptroller, until one o'clock, p. m., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-five years, from the 16th day of May, 1876, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying all gas to be used in the city, public and private, during the term of twenty-five years. The present requirements are a supply for 60 street lamps, and the average demand for private consumption is about 20,000 feet every twenty-four hours. The public lamps must be kept burning from twilight in the evening till dawn of day in the morning. The bids should state the price for gas supply, and also the price for lighting, cleaning, and keeping in repair the street lamps, and also the price per 1,000 feet to be paid by private consumers. All bids must be accompanied by a good and sufficient bond in the sum of \$10,000, to be forfeited in case the party should fail to enter into contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council.

FRED REARICK, Comptroller of City of Quincy, Ill.

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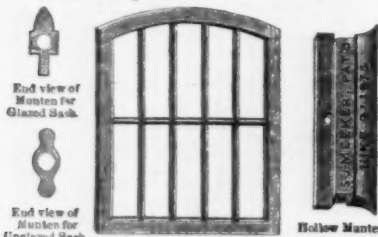
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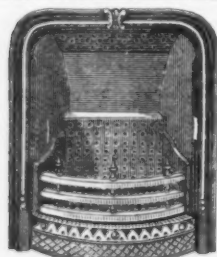
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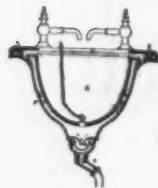
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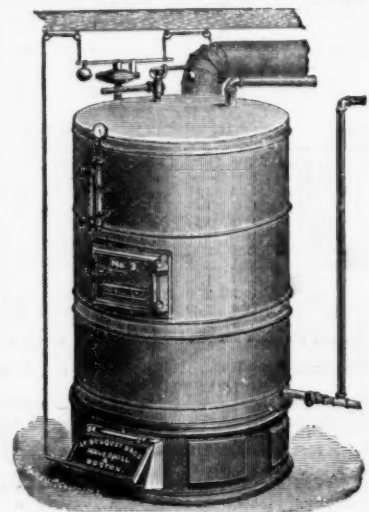
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## Publishers' Department.

### Classified Advertisements.

The following is an alphabetical list of the advertisements which appear in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once appreciate the excellence and convenience of the arrangement.

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### The Yale Lock Manufacturing Company.

We have received from the Yale Lock Manufacturing Company of Stamford, Conn., an elaborate catalogue and price-list of the goods manufactured by them. The mechanical appearance of the work is exceptionally fine, the various illustrations being executed in a very artistic manner, giving customers an admirable idea of their actual appearance. The reputation of the manufacturers of this company is world-wide, their locks having achieved the highest reputation for efficiency and durability, both in this country and Europe. A very interesting part of the catalogue is that devoted to the illustration of the real bronze hardware made by the company. These comprise door-knobs, bell-pulls, combined e cutcheons for locks, parlor bell levers, lever handles, fast joint butts, loose joint butts, door-handles, letter-hole plates, bolts of various kinds, and numerous other goods of a similar character used in public and private edifices. As the space devoted to the illustration and description of these goods comprises 225 royal octavo pages, the reader will understand something of the extent of the business of this enterprising corporation. The fame of the "Yale Time Lock," and of the Bank and Safe Locks of the Yale Company, is well known. Builders and others are interested to know that they are sole manufacturers of Weston's Safety Hoisting Machinery, and of other articles, for which attention must be directed to their comprehensive catalogue.

### Architects' and Engineers' Stationery.

The attention of our readers is directed to the announcement of Messrs. Wadsworth Brothers & Howland, on page v. They have a fresh and varied stock of stationery which architects and engineers would do well to examine.

### Centennial Awards.

Persons engaged in the manufacture of materials used in the construction of buildings, who have been awarded premiums in the Centennial Exhibition, would do well to inform architects and builders of the fact through the columns of the AMERICAN ARCHITECT AND BUILDING NEWS. A little money spent in judicious advertising generally proves a profitable investment; and the close of the exhibition gives the successful competitors a rare opportunity which they should not fail to improve.

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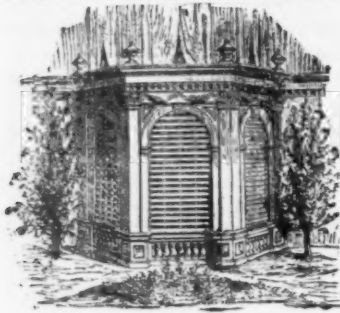
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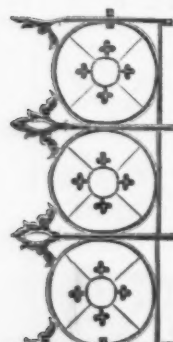
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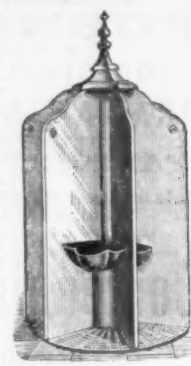


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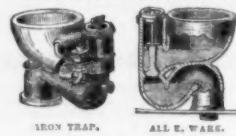
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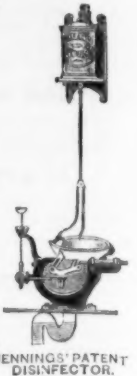
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# THE AMERICAN ARCHITECT

## AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

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SATURDAY, NOVEMBER 11, 1876.

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PROPOSALS.

SCHOOLHOUSE.—By order of Board of Education of New Bremen School District, Auglaize County, Ohio, sealed proposals will be received by said Board of Education, for furnishing the materials, and building and completing a schoolhouse in the town of New Bremen, as per plan and specification now on file in the office of the clerk of said Board in New Bremen, up to the 24th day of November, 1876, at 11 M. All bids must name the persons interested in said bid, and be accompanied with a guaranty in the sum of five hundred dollars, of some responsible disinterested person, that if the bid is accepted, a contract will be entered into, and the performance of it secured. All bids must be signed by the parties, sealed up, and addressed to the Board of Education of New Bremen School District, New Bremen, Auglaize County, O. Proposals for building Schoolhouse. The Board reserves the right to reject any or all bids. By order of the Board of Education of New Bremen School District. F. H. L. NIETER, Clerk. New Bremen, O., Oct. 23, 1876.

PROPOSALS.

LIFE-BOAT STATION HOUSE.—Proposals will be received at the Treasury Department, Washington, D.C., until 12 M., of Wednesday, the fifteenth day of November, 1876, for the construction of life-boat station houses at the following named points on the Pacific Coast, to wit: One at Neah Bay, and one at Shalwalter Bay, Washington Territory; one at Cape Arago (Cove Bay), Oregon; and one at Humboldt Bay, California. Bid will be received for one, several, or all of the above-mentioned houses; and bidders must state the number they will build, and designate the localities. Each bid must be accompanied with a bond in the sum of one thousand dollars, with two good and sufficient sureties, conditioned that the bidder shall enter into contract without delay if his bid be accepted. All proposals must be indorsed, "Proposals for the construction of life-boat station houses," and addressed to the Secretary of the Treasury, Washington, D.C. Specifications and plans, and forms of proposals and bond, can be obtained at the office of the Collectors of Customs at San Francisco, Astoria, Portland, Empire City, and Port Townsend; also upon application to this Department. The right to reject any or all bids, or to waive defects, if it is deemed for the interests of the Government to do so, is reserved. LOT M. MORRILL, Secretary.

PROPOSALS FOR MATERIALS TO BE SUPPLIED TO THE NAVY YARDS UNDER THE COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

NAVY DEPARTMENT, BUREAU OF CONSTRUCTION AND REPAIR, WASHINGTON, D.C., September 23, 1876. Sealed proposals to furnish timber and other materials to the Navy for the fiscal year ending June 30, 1877, will be received at this Bureau until twelve o'clock, M., of Thursday, Nov. 16, 1876, at which time the bids will be opened. The proposals must be addressed to the "Chief of the Bureau of Construction and Repair, Navy Department, Washington," and must be endorsed "Proposals for Timber, &c., for the Navy," that they may be distinguished from ordinary business letters. To prevent confusion and facilitate the opening of the bids, parties bidding for supplies at several yards will enclose their bids in separate envelopes for each yard, indorsed with the name of the yard for which the bid is made. Printed schedules for such classes as parties deal in and intend to bid for, together with in fraction for bidders, giving the terms of proposal, of guarantee, and of certificate of guarantors, with printed forms of offer, will be furnished to such persons as desire to bid, upon application to the Commandants of the respective Navy Yards, and those of all the yards on application to the Bureau. The Commandant of each Navy Yard, and the purchasing Paymaster for each station, will have a copy of the schedules of the other yards, for examination only. In order that persons who intend to bid may judge whether it is desirable to make application for any of the classes of those yards. The proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class, should the interest of the Government require it, before the execution of the contract. All applications for information, or for the examination of samples, must be made to the Commandants of the respective yards. Bids or offers will be received only from parties who are bonded, according to the provisions of the articles they offer to furnish. The guarantors must be certified by the Collector of Internal Revenue for the district in which they reside. The contract will be awarded to the person who makes the lowest bid and gives the guarantee required by law, the Navy Department, however, reserving the right to reject the lowest bid, or any which it may deem exorbitant. Under the provisions of Section 3722 of the Revised Statutes, the offer of any person who is principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received. Sureties in the full amount will be required to sign the contract, and their responsibility must be certified to the satisfaction of the Navy Department. As a additional security, twenty per centum will be withheld from the amount of the bills until the contracts shall have been completed, and eighty per centum of the amount of each bill, approved in triplicate by the Commandants of the respective yards, will be paid by the Paymaster of the station designated in the contract, or, if none is specified, by the Paymaster of the station nearest the yard where the goods are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury. The classes of this Bureau are numbered and designated as follows: No. 1, White Oak Logs; No. 13, White Pine Plank, Boards; No. 16, White Ash Oars; No. 22, Cypress, Cedar; No. 24, White Oak Staves; No. 25, Lignum-vitæ; No. 25, Steel; No. 28, Iron Wrought Nails; No. 29, Iron Cut Nails; No. 42, Lead, pipe, sheet; No. 43, Zinc; No. 48, Locks, Hinges, Bolts, of brass and iron; No. 47, Screws, of brass and iron; No. 50, Files; No. 51, Augers; No. 52, Tools for ship stores; No. 53, Tools for use in yards and shops; No. 54, Hardware; No. 56, White Lead; No. 57, Zinc Paint; No. 58, Colored Paints, Dryers; No. 59, Lard Oil; No. 60, Yarnish, Spirits Turpentine; No. 63, Sperm and Lard Oil; No. 64, Tallow, Soap; No. 65, Fish Oil; No. 68, Glass; No. 69, Brushes; No. 70, Dry Goods for upholstering; No. 71, Stationery; No. 72, Crucibles; No. 73, Ship Chandlery; No. 74, Acid; No. 75, Rosin, Pitch, Crude Turpentine; No. 77, Belting, Packing; No. 78, Leather; No. 89, Charcoal; No. 89, Wood.

The following are the classes, by the numbers, required at the respective navy yards:— PORTSMOUTH. Nos. 16, 25, 39, 43, 48, 50, 54, 58, 60, 63, 65, 69, 70, 73, 74, 88. BOSTON. Nos. 25, 28, 39, 42, 48, 49, 50, 52, 54, 58, 59, 60, 63, 64, 68, 69, 70, 71, 72, 73, 75, 77, 78. NEW YORK. Nos. 22, 42, 43, 56, 57, 58, 59, 60, 63, 65, 75. LEAGUE ISLAND. Nos. 25, 28, 39, 43, 48, 49, 50, 52, 53, 54, 60, 63, 64, 68, 69, 70, 71, 73, 75, 77, 78, 88. WASHINGTON. Nos. 22, 39, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 72, 73, 74, 75, 77, 78, 88, 89. NORFOLK. Nos. 22, 25, 35, 39, 48, 49, 50, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 73, 77, 78. MARE ISLAND. Nos. 16, 24, 25, 43, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 63, 64, 65, 68, 69, 70, 71, 73, 78.

STEEL WIRE.—Proposals will be received up to Dec. 1, 1876, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N.Y., for the manufacture and delivery of 3,400 net tons of No. 8 galvanized steel cable wire, to be used in the construction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information, will be furnished upon application to this office. W. A. ROEBLING, Chief Engineer.

PROPOSALS.

HOSE. U. S. NAVY YARD, WASHINGTON, D.C., Oct. 23, 1876. For the purpose of submitting for examination and test to a board appointed by the Navy Department with the view of establishing a standard hose for use in the United States Navy, manufacturers of cotton-canvas, rubber-lined hose, are hereby invited to deliver in this Navy Yard, by the 1st of November next, free of any expense to the Government, specimens of said hose, in lengths of twenty-five (25) feet each, with couplings of Work's patent attached. Each specimen must bear the name of the manufacturer, with cost of same per foot, including also the cost of couplings. JOHN C. FEBIGER, Commodore U. S. N., Commandant. COMMANDANT'S OFFICE, Oct. 27, 1876.

The foregoing is so far modified that the samples of all kinds of rubber-lined canvas hose will be received for comparative trial, and the time for delivery of same at this Yard extended to the 15th proximo. JOHN C. FEBIGER, Commodore U. S. N., Commandant.

WALL.—Proposals, in triplicate, with a copy of this advertisement attached, will be received at the Office of National Cemeteries, Washington, D.C., until Wednesday, Nov. 13, 1876, for the construction of enclosing walls of brick or stone around the National Cemeteries at Yorktown, Va., and Beaufort and Florence, S.C. Copies of plans and specifications may be seen, and blank forms of proposals procured, at this office, and at the Quartermaster's Offices in New York City (corner of Houston and Greene Streets), at Fort Monroe, Va., Charleston, S.C., Louisville, Ky., Baltimore, Md., and at the Cemeteries above named. Proposals should be indorsed, "Proposals for Walls for National Cemeteries," and addressed to the undersigned. They will be opened at noon on the date specified, when bidders are invited to be present. A. F. ROCKWELL, Captain and A. Q. M.

GAS SUPPLY.—Sealed proposals will be received at the office of the City Comptroller, until one o'clock, P.M., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-five years, from the 16th day of May, 1877, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying said gas to be used in the city, public and private, during the term of twenty-five years. The present requirements are a supply for 680 street lamps, and the average demand for private consumption is about 30,000 feet every twenty-four hours. The public lamps must be kept burning from twilight in the evening till dawn of day in the morning. The bids should state the price for gas supply, and also the price for lighting, cleaning, and keeping in repair the street lamps, and also the price per 1,000 feet to be paid by private consumers. All bids must be accompanied by a good and sufficient bond in the sum of \$10,000, to be forfeited in case the party should fail to enter into contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council. FRED REARICK, Comptroller of City of Quincy, Ill.

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NORTH AMERICAN REVIEW,

OCTOBER, 1876. ART. I. THE SOUTHERN QUESTION. WILLIAM HENRY TRESCOT. II. THE WHISKEY RING. H. V. HOTTSTON. III. VON HOLST'S HISTORY OF THE UNITED STATES. HENRY ADAMS AND H. C. LODGE. IV. AN EPISODE IN MUNICIPAL GOVERNMENT. The Shattering of the Tweed "Ring." C. F. WINGATE. V. THE INDEPENDENTS IN THE CANVASS. VI. CRITICAL NOTICES. \$1 50 a Number; Yearly Subscription, \$6 00. Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers.

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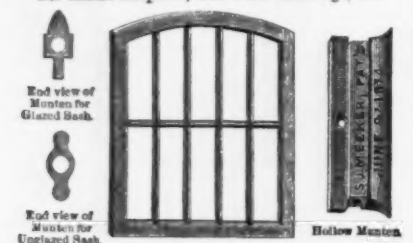
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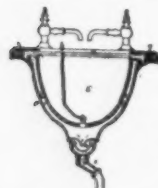
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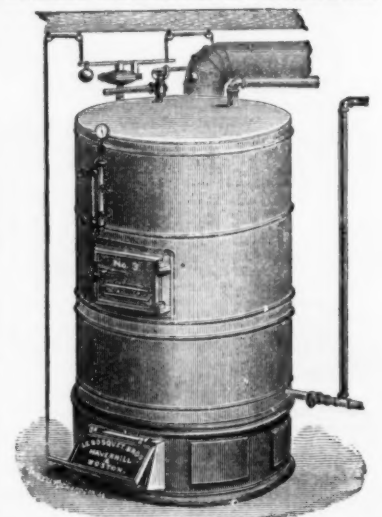
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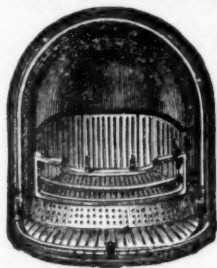
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### Heliotype Art-Works.

The reception of Toschi's engravings, Landseer's and Raphael's works, as reproduced by the heliotype process, has been so hearty that J. R. Osgood & Co. have arranged to bring out the present season four similar volumes. One of these, to be called "Gems of the Dresden Gallery," will include Raphael's world-famous Sistine Madonna; Correggio's Reading Magdalen, La Notte, the Physician, and St. George; Carlo Dolci's St. Cecilia; Guido Reni's Ecce Homo, and Semiramis and Ninus; Holbein's Madonna; and other celebrated engravings after Titian, Caracci, Paolo Veronese, Rembrandt, Rubens, Van Dyck, and other famous artists.

The second volume, the "Gallery of Great Artists," contains fine portraits of Leonardo da Vinci, Raphael, Michael Angelo, Correggio, Titian, Caracci, Guido Reni, Velasquez, Murillo, Salvator Rosa, Poussin, Greuze, Claude, Dürer, Holbein, Rembrandt, Rubens, Van Dyck, Hogarth, Reynolds, Landseer, Turner, Copley, and Stuart. Most of these portraits are by the artists themselves, and all are of great merit and interest.

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### A Superb Gift-Book.

Messrs. James R. Osgood & Co. have selected for their special holiday volume Mr. Longfellow's ballad, "The Skeleton in Armor." Not a few of the poet's closest students and warmest admirers rank this ballad among his foremost achievements. Miss Mary A. Hallock, the artist to whose genius "The Hanging of the Crane" and "Mabel Martin" owed the exquisite pictorial attractions which gave them so remarkable popularity, has drawn many full-page illustrations for "The Skeleton in Armor;" and those who have admired her previous designs will find in these a more decided power, with no loss of the grace and tender charm which characterize those. The engraving has been done by Mr. A. V. S. Anthony, who in his department of art has no equal in America and no superior in the world. Paper, printing, and binding are of the best; and altogether "The Skeleton in Armor" will probably be the finest and most attractive holiday volume ever produced in this country.

### Dottings round the Circle.

This is the title of a book describing a journey around the globe recently made by Mr. Benjamin Robbins Curtis of Boston. His course led through Japan, China, India, Egypt, Italy, France, and England; and he carried letters that gained for him peculiar privileges and opportunities for making his tour rich in experience and observation. He was in China while the excitement caused by the Margary murder was at its height. In India he witnessed the pageantry and popular enthusiasm attending the visit of the Prince of Wales. The story of his travels is finely illustrated with heliotype photographs collected by Mr. Curtis, representing a Japanese peasant-woman, a Chinese mandarin and his wife, a gateway at Shiba, the Burning Ghat of Benares, a street in Pekin, the interior of a Buddhist temple in Canton, a view in Buitenzorg in Java, a Chinese police-court, an Egyptian dancing-girl, and other interesting views.

### TO ARCHITECTS AND BUILDERS.

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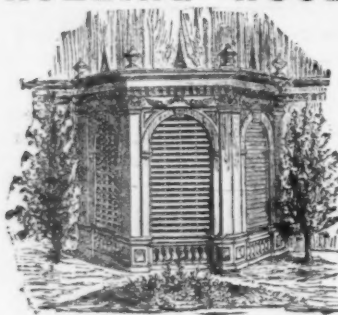
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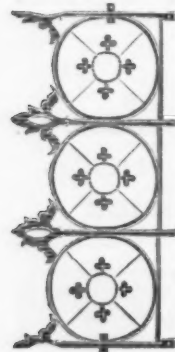
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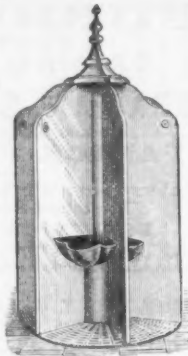
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Vol. I. No. 47.]

SATURDAY, NOVEMBER 18, 1876.

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Mr. HOYT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

**PROPOSALS.**

**SCHOOLHOUSE.**—By order of Board of Education of New Bremen School District, Auglaize County, Ohio, sealed proposals will be received by said Board of Education, for furnishing the materials, and building and completing a schoolhouse in the town of New Bremen, as per plan and specification now on file in the office of the clerk of said Board in New Bremen, up to the 24th day of November, 1876, at 12 M. All bids must name the persons interested in said bid, and be accompanied with a guaranty, in the sum of five hundred dollars, of some responsible disinterested person, that if the bid is accepted, a contract will be entered into, and the performance of it secured. All bids must be signed by the parties, sealed up, and addressed to the Board of Education of New Bremen School District, New Bremen, Auglaize County, O. Proposals for building Schoolhouse. The Board reserves the right to reject any or all bids. By order of the Board of Education of New Bremen School District.  
F. H. L. NIETER, Clerk.  
New Bremen, O., Oct. 23, 1876.

**PROPOSALS.**

**TO CONTRACTORS.**—Sealed Proposals will be received by the President of the Board of Trustees of the village of Hyde Park, until Tuesday, Nov. 21, 1876, at 4 P. M., for the furnishing and erection of pumping machinery and appurtenances for the surface drainage in said village, the works to be erected near the Pittsburg and Fort Wayne Railroad crossing of the Calumet River. Plans of the receiving-basins, pump-ping-well, foundations, buildings, piling, etc., can be seen at the village hall. Bidders must state, and be prepared to guarantee under bonds, the duty of their engines, boilers, and pumps separately, and the quantity of coal required for such duty. Two engines to be furnished of sixty (60), and one hundred and twenty (120) horse-power respectively, with cut-off valves. Bids for furnishing engines must be accompanied by complete plans, showing size of foundations, together with a guaranty of coal consumed per effective horse-power per hour. The two boilers may be of any pattern, but the size, style, and necessary masonry must be shown by plans and elevations; the heating and grate surface must be specified, as also the guaranteed evaporating capacity of such boilers. Pumps to be of the centrifugal pattern, to be in number, lifting water from a level varying from three (3) to six (6) feet below datum to a level varying from one (1) to three (3) feet above datum, giving as nearly as possible a uniform duty, with varying lifts; engines, hoists, and wheels, for such piling, cubic feet of water nine feet high per minute; also stating the increased amount of water lifted for each foot of increased lift, and giving the number of revolutions per minute. The pumping-machinery to be divided into two distinct systems, each having a capacity of 2,000 and 4,000 cubic feet of water, nine (9) feet high per minute respectively. All guaranties of duty to be in pounds of Illinois soft coal, as well as good hard coal. Masonry, if of brick, to be bid for per thousand laid, or, if of stone, per cord, in cement. Piles and timber for receiving-basins, wells, and foundations to be of the best white-oak. Piles not less than fourteen inches at the butt, and from twenty (20) to thirty (30) feet long. Bidders must state price per foot standing of piling, and price per thousand for capping and grillage—timbers in place, or per horizontal lineal foot, for such sheet piling as may be shown in plans. Buildings to be of such size and materials as shown by plans. Excavation to be bid for by the cubic yard, to be conveyed and levelled not more than five hundred feet.

The conduit under river to be wood, as shown in plans, and paid for per lineal foot in place; as also land culverts and connections, and culverts under railroad tracks. Proposals will also be received for lifting-wheels to elevate the water. The engines, hoists, and wheels, for such piling, must conform to same specifications of varying lift, as indicated for centrifugal pumps; and in both plans the same guaranties of duty must accompany the proposals to furnish such engines, boilers, and lifting-machinery as is herein indicated. Also separate proposals, will be received for furnishing such an arrangement of vacuum pumps for lifting water on east side, utilizing exhaust-steam of engines on west side of river. In all such proposals the amount of engine-power lost in a confined exhaust must be stated, as also a guaranty of the duty of such vacuum pumps in cubic feet of water per minute. All tests of machinery and appurtenances to be made at the expense of the contractor, and no payment shall be made until machinery and appurtenances shall have satisfactorily stood the tests, and shall have been accepted by the Board of Trustees. In case such machinery shall not have completely and fully sustained the tests as guaranteed by the contractor, he shall be liable upon his bond for the expense of removal. Bids will be received separately for each class or description of work, or for the whole. All work to be measured and paid for in place. Payment to be made as collected, under special assessment levied for the purpose. The Board reserve the right to reject any and all bids at their discretion. Proposals should be sent to John R. Benseley, President Board of Trustees, village of Hyde Park. By order of the Board of Trustees,  
FREDERICK WILCOX CLARKE, Consulting Engineer for South Chicago Drainage.

**CITY HALL.**—Sealed Proposals for furnishing certain materials for the New City Hall Building will be received by the Board of New City Hall Commissioners of the city and county of San Francisco, in the room of the Board of Supervisors, between the hours of 12 noon and 1 o'clock, P. M., Wednesday, Nov. 29, 1876, as follows: viz: The material for the contractor to be furnished with specifications and conditions of contract to be seen at the office of the Secretary, where forms of proposal and bonds will be furnished to intending bidders. The materials to be furnished at such periods as may be required by the Superintendent, the whole to be furnished on or before the thirtieth day of March, 1877. Bids will be received for any quantity not less than 250,000 bricks, and must be made on the understanding, that in all cases of bids for supplying more than 250,000 bricks the Commission is to have the option of accepting any such bid either for the whole quantity offered or any portion of same, not less in quantity than 250,000 bricks, as they may deem fit, at the price per thousand named in the bid. No bids will be entertained unless made on blanks to be furnished by the Secretary of the Board, and accompanied by a bond with two or more good and sufficient sureties, in a sum equal to ten per cent of the total sum of the tender, conditioned for the due entering of the contract by the party to whom it may be awarded. The bids must be indorsed for the work proposed to be done, and addressed to the Board of New City Hall Commissioners, and be delivered to said Board whilst it is in session, and within the hour above named. The Board reserves the right to reject any and all bids. Payments will be made monthly, in gold and silver coin, at seventy-five per cent of the estimated amounts due, and the remaining twenty-five per cent when the contract is completed.  
A. J. BRYANT, GEO. F. MAYNARD, W. C. BURNETT, Board of New City Hall Commissioners for the city and county of San Francisco.  
GEO. W. THOMAS, Secretary.

**GAS SUPPLY.**—Sealed proposals will be received at the office of the City Comptroller, until one o'clock, P. M., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-five years, from the 1st day of May, 1878, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying a gas to be used in the city, public and private, during the term of twenty-five years. The present requirements are a supply for 600 street lamps, and the average demand for private consumption is about 30,000 feet every twenty-four hours. The public lamps must be kept burning from twilight in the evening till dawn of day in the morning. The bids should state the price for gas supply, and also the price for lighting, cleaning, and keeping in repair the street lamps, and also the price per 1,000 feet to be paid by private consumers. All bids must be accompanied by a good and sufficient bond in the sum of \$10,000, to be forfeited in case the party should fail to enter into a contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council.  
FRID REARICK,  
Comptroller of City of Quincy, Ill.

**PROPOSALS.**

**CITY HALL.**—Sealed proposals for the iron and accessory work, and the plasterers' and accessories work, required for completing portion of the exterior of the Hall of Records, as shown and described on the drawings and in the specifications, will be received by the Board of New City Hall Commissioners for the City and County of San Francisco, in the room of the Board of Supervisors, between the hours of 12 M. and 1 P. M. of Wednesday, Nov. 29, 1876. To be in accordance with drawings and specifications and conditions of contract, to be seen at the office of the Secretary, where forms of proposals and bonds will be furnished to intending bidders. The whole of the work to be completed within the time fixed in the specification, to wit: The iron and accessory work within six weeks, and the plasterers' and accessory work within nine weeks, from the date on which the contracts are ready for signatures. No bids will be entertained unless made on blanks furnished by the Secretary of the Board, and accompanied by a bond with two or more good and sufficient sureties in a sum equal to ten per cent of the total sum of the tender, conditioned for the due entering into the contract by the party to whom it may be awarded. The bids may be indorsed for the work proposed to be done, and addressed to the Board of New City Hall Commissioners, and to be delivered to the Board whilst it is in session, and within the hours above named. The Board reserves the right to reject any and all bids. Payments to be made monthly, in gold and silver coin, of seventy-five per cent of the estimated amounts due, and the remaining twenty-five per cent when the contract is completed.  
A. J. BRYANT, GEO. F. MAYNARD, W. C. BURNETT, Board of the New City Hall Commissioners for the City and County of San Francisco.  
GEO. W. THOMAS, Secretary.

**STEEL WIRE.**—Proposals will be received up to Dec. 1, 1876, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N. Y., for the manufacture and delivery of 3,406 net tons of No. 8 galvanized steel cable wire, to be used in the construction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information, will be furnished upon application to this office.  
W. A. ROEBLING, Chief Engineer.

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**NORTH AMERICAN REVIEW,**  
OCTOBER, 1876.

- ART. I. THE SOUTHERN QUESTION. WILLIAM HENRY TRESCOT.
- II. THE WHISKEY RING. H. V. BOYNTON.
- III. VON HOLST'S HISTORY OF THE UNITED STATES. HENRY ADAMS AND H. C. LODGE.
- IV. AN EPISODE IN MUNICIPAL GOVERNMENT. F. M. WINGATE.
- V. THE "INDEPENDENTS" IN THE CANVASS.
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DOUBLE THICK. 6 x 8 - 7 x 9, 8 x 10 - 10 x 15, 11 x 14 - 12 x 16, 11 x 16 - 14 x 24, 15 x 21 - 15 x 32, 18 x 32 - 20 x 30, 22 x 30 - 15 x 38, 22 x 34 - 22 x 36, 24 x 36 - 24 x 40, 24 x 42 - 28 x 42, 26 x 46 - 30 x 48, 30 x 50 - 32 x 52, 32 x 54 - 34 x 56, 34 x 58 - 34 x 60, 36 x 60 - 40 x 60.

AMERICAN WINDOW, per box of 50ft. Sizes, 6 x 8 - 10 x 15, 11 x 14 - 12 x 16, 10 x 16 - 14 x 26, 18 x 22, 26 x 26 - 20 x 30, 25 x 30 - 24 x 30, 21 x 28 - 24 x 36, 26 x 30 - 26 x 44, 28 x 44 - 30 x 50, 30 x 52 - 30 x 54, 30 x 56 - 34 x 56, 34 x 58 - 34 x 60, 36 x 60 - 40 x 60.

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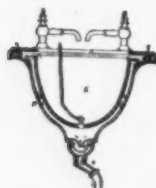
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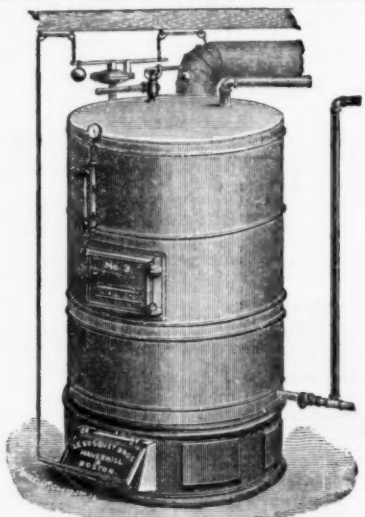
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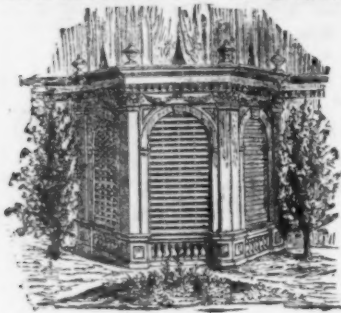
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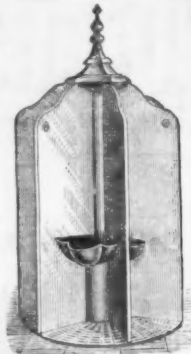
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Mr. HOTT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work

**PROPOSALS.**

**BRIDGE.**—Notice is hereby given that a contract will be let for furnishing the material and performing the labor necessary for the erection of a Covered Bridge, with Stone Abutments, across Salt Creek, near Schulz's Mill, in Eagle Township, Vinton County, Ohio, on Saturday, Dec. 2, 1876, at 2 o'clock, P. M., of said day, at public auction, upon the Bridge site above named. The stone-work and superstructure to be let under separate contracts. Length of span to be 150 feet. The Commissioners reserve the right to reject any or all bids. By order of Board of Commissioners.  
J. T. FOREMAN, Auditor Vinton Co.

**GRADING.**—Sealed proposals for grading Wisconsin Street in the Second and Third Wards of the city of Janesville, Wis., in accordance with an order of the Mayor and Common Council of said city, dated Oct. 31, 1876, and in accordance with the grade established by said Common Council on the twenty-second day of July, 1876, and now on file in my office, will be received at the office of the city clerk, in said city, until the twenty-first day of November, 1876, at 3 o'clock P. M. Each proposal must be accompanied by a good and sufficient bond for the performance of the work in accordance with said grade so on file, with at least one surety to be approved by said Common Council. Each proposal to be enclosed in an envelope, and indorsed, "Proposal for Grading Wisconsin Street."  
E. L. DIMOCK, City Clerk.

**SCHOOL HOUSE.**—Sealed proposals will be received by the School Trustees of the Twenty-fourth Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, New York, until Tuesday, the 28th day of November, 1876, and until 4 o'clock P. M. on said day, for altering and enlarging Grammar School No. 63, on 3d Avenue, near 173d Street.

Plans and specifications may be seen, and blanks for proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand Street, third floor. Proposals must state the estimate for each branch of the work separately, and be indorsed "Proposal for Mason Work," "Proposal for Carpenter Work," "Proposal for Painting."

Two responsible and approved sureties, residents of this City, will be required from each successful bidder. The parties submitting a proposal and the parties proposing to become ares may each write his name and place of residence on said proposal. The Trustees reserve the right to reject any or all of the proposals submitted.  
MARK K. HAMILTON, Jun., FRANKLIN EDSON, JAMES C. HULL, GEORGE H. MOLLER, FERDINAND MEYER, Board of School Trustees, Twenty-fourth Ward.

**CITY HALL.**—Sealed Proposals for furnishing certain materials for the New City Hall Building will be received by the Board of New City Hall Commissioners of the city and county of San Francisco, in the room of the Board of Supervisors, between the hours of 12 noon and 1 o'clock, P. M., Wednesday, Nov. 29, 1876, as follows, viz: Three and a half million bricks, in accordance with specifications and conditions of contract to be seen at the office of the Secretary, where forms of proposal and bonds will be furnished to intending bidders. The bids to be furnished at such periods as may be required by the Superintendent, the whole to be furnished on or before the thirtieth day of March, 1877. Bids will be received for any quantity not less than 250,000 bricks, and must be made on the understanding that in all cases of bids for supplying more than 250,000 bricks the Commissioners are to have the option of accepting any such bid either for the whole quantity offered or any portion of same, not less in quantity than 250,000 bricks, as they may deem fit, at the price per thousand bricks named in the bid. No bids will be entertained unless made on blanks to be furnished by the Secretary of the Board, and accompanied by a bond with two or more good and sufficient sureties, in a sum equal to ten per cent of the total sum of the tender, conditioned for the due entering of the contract by the party to whom it may be awarded. The bids must be indorsed for the work proposed to be done, and addressed to the Board of New City Hall Commissioners, and be delivered to said Board whilst it is in session, and within the hour above named. The Board reserves the right to reject any and all bids. Payments will be made monthly, in gold and silver coin, of seventy-five per cent of the estimated amounts due, and the remaining twenty-five per cent when the contract is completed.  
A. J. BRYANT, GEO. F. MAYNARD, W. C. BURNETT, Board of New City Hall Commissioners for the city and county of San Francisco.  
GEO. W. THOMAS, Secretary.

**GAS SUPPLY.**—Sealed proposals will be received at the office of the City Comptroller, until one o'clock, P. M., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-five years, from the 16th day of May, 1878, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying all gas to be used in the city, public and private, during the term of twenty-five years. The present requirements are a supply for 600 street lamps, and the average demand for private consumption is about 30,000 feet every twenty-four hours. The public lamps must be kept burning from twilight in the evening till dawn of day in the morning. The bids should state the price for gas supply, and also the price for lighting, cleaning, and keeping in repair the street lamps, and also the price per 1,000 feet to be paid by private consumers. All bids must be accompanied by a good and sufficient bond in the sum of \$10,000, to be forfeited in case the party should fail to enter into contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council.  
FRED REARICK, Comptroller of City of Quincy, Ill.

**SCHOOLHOUSE.**—By order of Board of Education of New Bremen School District, Auglaize County, Ohio, sealed proposals will be received by said Board of Education, for furnishing the materials, and building and completing a schoolhouse in the town of New Bremen, as per plan and specification now on file in the office of the clerk of said Board in New Bremen, up to the 24th day of November, 1876, at 12 M. All bids must name the persons interested in said bid, and be accompanied with a guaranty, in the sum of five hundred dollars, of some responsible disinterested person, that if the bid is accepted, a contract will be entered into, and the performance of it secured. All bids must be signed by the parties, sealed up, and addressed to the Board of Education of New Bremen School District, New Bremen, Auglaize County, Ohio. Proposals for building Schoolhouse. The Board reserves the right to reject any or all bids. By order of the Board of Education of New Bremen School District.  
F. H. L. NIETER, Clerk.  
New Bremen, O., Oct. 23, 1876.

**PROPOSALS.**

**CITY HALL.**—Sealed proposals for the iron and accessory work, and the plasterers' and accessory work, required for completing portion of the exterior of the Hall of Records, as shown and described on the drawings and in the specifications, will be received by the Board of New City Hall Commissioners for the City and County of San Francisco, in the room of the Board of Supervisors, between the hours of 12 M. and 1 P. M. of Wednesday, Nov. 29, 1876. To be in accordance with drawings and specifications and conditions of contract, to be seen at the office of the Secretary, where forms of proposals and bonds will be furnished to intending bidders. The whole of the work to be completed within the time fixed in the specification, to wit: The iron and accessory work within nine weeks, and the plasterers' and accessory work within nine weeks from the date on which the contracts are ready for signatures. No bids will be entertained unless made on blanks furnished by the Secretary of the Board, and accompanied by a bond with two or more good and sufficient sureties in a sum equal to ten per cent of the total sum of the tender, conditioned for the due entering into the contract by the party to whom it may be awarded. The bids may be indorsed for the work proposed to be done, and addressed to the Board of New City Hall Commissioners, and to be delivered to the Board whilst it is in session, and within the hours above named. The Board reserves the right to reject any and all bids. Payments to be made monthly, in gold and silver coin, of seventy-five per cent of the estimated amounts due, and the remaining twenty-five per cent when the contract is completed.  
A. J. BRYANT, GEO. F. MAYNARD, W. C. BURNETT, Board of the New City Hall Commissioners for the City and County of San Francisco.  
GEO. W. THOMAS, Secretary.

**STEEL WIRE.**—Proposals will be received up to Dec. 1, 1876, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N. Y., for the manufacture and delivery of 3,466 net tons of No. 8 galvanized steel cable wire, to be used in the construction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information, will be furnished upon application to this office.  
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[CONTINUED ON NEXT PAGE.]



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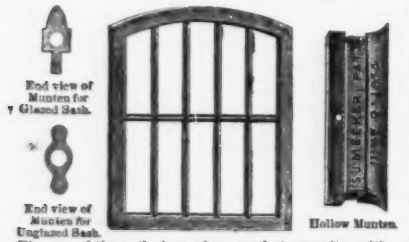
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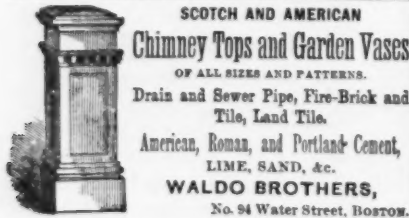
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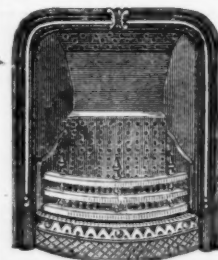
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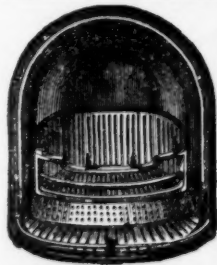
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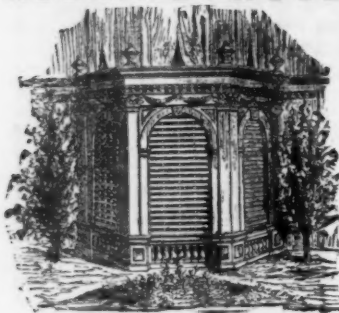
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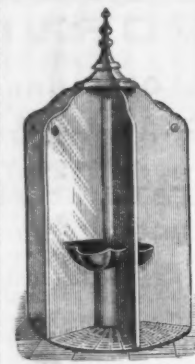
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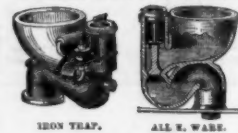
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The Commissioners do not bind themselves to accept the lowest or any tender.  
The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, addresses, and occupations are to be inserted in full in his tender, and who are willing, with him, to be bound jointly and severally in the sum of \$50,000 for the due fulfillment of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners or their Engineer and the Contractor.  
Tenders for these works will not be considered unless accompanied by an accepted bank check, or other available security, for the sum of \$2,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer.

HARBOR COMMISSIONERS' OFFICE,  
QUEBEC, 30th November, 1876.

**STEAM FANS.**—The Trustees of the Columbus Hospital for Insane will receive sealed proposals until 12, M., Thursday, December 14, 1876, for the construction and erection of a system of ventilation of the Hospital Building, by means of Six Steam Fans and Connective Pipes. Bids will be received for the work as follows: 1. All excavation, brickwork, stonework, &c. 2. Six steam fans and connections. 3. The whole in one job. Plans and specifications are now on file in the office of the architect upon the grounds. Blanks, with guaranty bonds attached, will be furnished on application. Bids must be sealed and directed to A. D. Rogers, Esq., President of the Board of Trustees, and indorsed for such part of the work as they may be for, and left at the architect's office upon the grounds. By order of the Board. For further information address, T. E. TINSLEY, Architect.

**PROPOSALS FOR STATE, WAR, AND NAVY DEPARTMENTS.**

OFFICE OF BUILDING FOR STATE, WAR, AND NAVY DEPARTMENTS,  
No. 2100 PENNSYLVANIA AVENUE,  
WASHINGTON, D.C., Nov. 21, 1876.

Sealed proposals will be received at this office until 12, M. of the 21st day of December, 1876, for furnishing, delivering, fitting, and putting in place, the wrought and cast iron work, as exhibited by the drawings, described in the specifications, called for in the schedules, and required for the roofs of the two curtains of the East Wing of Building for State, War, and Navy Departments, at Washington, D.C.

Copies of the drawings, specifications, and schedules can be had on application to this office.

All bids must be accompanied by a penal bond, in the sum of the aggregate amount of the bid, that the bidder will accept and perform the contract if awarded to him. The sufficiency of the security to be certified by the United States Judge, the Clerk of the United States Court, or the District Attorney of the District wherein he resides.

Tenders are reserved the right to reject any or all bids; and any bid that is not made on the form to be obtained in this office, and does not conform to the requirements of this advertisement, will not be considered.

Proposals will not be received from parties who are not themselves engaged in the manufacture of wrought and cast iron work, and who have not the necessary facilities for getting out the work.

Proposals will be indorsed, "Bids for Iron Work of Roof of East Wing of Building for State, War, and Navy Departments," and addressed to  
O. E. BABCOCK, Col. of Eng'rs, U.S.A.

**STONE BRIDGE.**

Proposals will be received until Dec. 5 for building a four-arch stone bridge over the Concord River, Concord, Mass. Plans and specifications may be seen at the office of H. W. Blaisdell, civil engineer, 32 Pemberton Square. The right is reserved to reject any and all proposals.

**TO ARCHITECTS AND BUILDERS.**

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

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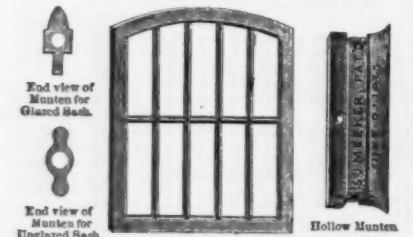
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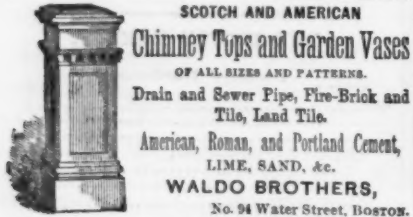
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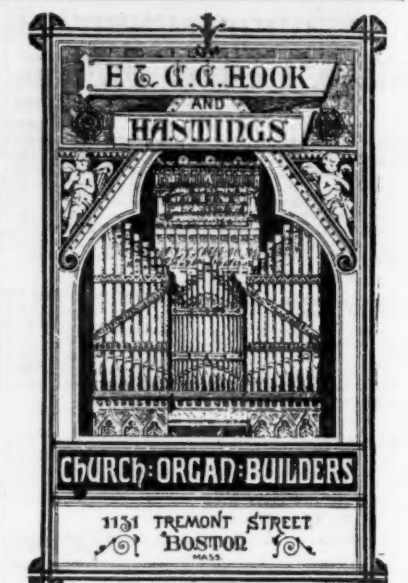
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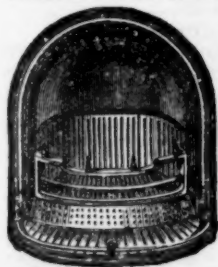
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### Heliotypes and Books for the Holidays.

During the holiday season, Messrs. James R. Osgood & Co. will occupy the spacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will embrace all the choice works published by Messrs. Osgood and Co. during the past three years, including engravings from the paintings of the most eminent modern artists, and the most renowned ancient masters, represented in the "Gray Collection" at Harvard College. This exhibition will afford a most excellent opportunity for the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Messrs. Osgood & Co., besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skeleton in Armor," by Longfellow, superbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of the year; superior in some respects to "Mabel Martin," and "The Hanging of the Crane." The works of Tenyson, Longfellow, Emerson, Whittier, Holmes, Lowell, and numerous other American authors, will be presented in great variety and attractiveness. Among the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres," by Boyesen; "Three Centuries of Song," edited by Whittier; "Poems of Places," edited by Longfellow; "That New World," by Mrs. J. J. Flint; "Seashore and Prairie," by Mrs. Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 387 Washington Street, Boston, will be a very attractive resort during the next few weeks.

### A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. S. M. B. PIATT, author of "A Woman's Poems," and "A Voyage to the Fortunate Isles." 1 vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World,"—which is also the special title of the leading poem,—is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

### Tales of Two Hemispheres.

James R. Osgood & Co. have published in the "Saunterer's Series," a new work by H. H. Boyesen, the popular Norwegian author, under the above title. It contains six charming stories, on Old and New World subjects, which are told with remarkable grace and attractiveness. Speaking of the leading story, "The Man who lost his Name," the New York Evening Post said: "Its author has done other work as clever as this, but nothing that we can recall which has shown so much strength." 1 vol. 8vo, \$1.25.

### "Flower and Thorn."

In Mr. T. B. Aldrich's charming new volume of poems just published by James R. Osgood & Co., are included most of the poems the author has written since 1865, several of which have not before been printed. They merit in higher degree than "Cloth of Gold;" the description given of that collection by the "International Gazette," as "poems in which great delicacy of thought is combined with a felicitous choice of language."

**The Kiltredge Cornice and Ornament Co.,** Of Salem, O., has published "The Compendium of Sheet-Metal Work," which is profusely illustrated with designs of the goods manufactured by them. The book comprises more than five hundred pages, and gives prices, rules, and directions for estimates, items of cost of their various ornaments, &c. The Compendium is a very convenient publication for those who desire to use the materials made by the Kiltredge Cornice and Ornament Co.

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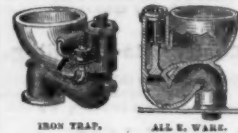
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# AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

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SATURDAY, DECEMBER 9, 1876.

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**PROPOSALS.**

**PROPOSALS FOR CONCRETE FLOORS.—** City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What-Cheer Building, for the concrete floor, &c., in the Sub-Basement of the New City Hall Building, until 12 o'clock, m., Dec. 18, 1876.

Specifications may be had on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, 40 Water Street, Boston.  
Each bid must be accompanied by a bond in the sum of \$1,000, that a contract will be signed within five days of the reception of bids.  
The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$2,500 for the fulfillment of the contract. The Commissioners do not bind themselves to accept the lowest or any bid.  
WM. G. R. MOWRY, HENRY G. RUSSELL, WILLIAM M. BAILEY, City Hall Commissioners.

**PROPOSALS FOR STEAM HEATING APPARATUS AND VENTILATING APPLIANCES.—** City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What-Cheer Building, for the Steam Heating Apparatus and Ventilating Appliances, for the New City Hall Building, Providence, R. I., until 12 o'clock, m., Dec. 23, 1876.

Plans, specifications, and form of proposal, will be furnished *bona fide* bidders on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, No. 40 Water Street, Boston, on the deposit of \$50.  
Each bid must be accompanied with a bond in the sum of \$3,000, that a contract will be signed within five days of the acceptance of a bid.  
The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$10,000 for the fulfillment of the contract, which bond shall also remain in force two years after the last payment shall be due. The Commissioners do not bind themselves to accept the lowest or any bid.  
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**QUEBEC HARBOR WORKS.** PROPOSED WORKS AT THE MOUTH OF THE RIVER ST. CHARLES.

Tenders will be received at the office of the Quebec Harbor Commissioners up to noon of Thursday, the first day of February, 1877, for the construction of the following works:  
1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.  
2. A wall and an embankment, forming the North Quay of the proposed South Wet Dock.  
3. The widening out and the formation of a channel-way parallel to both walls.  
4. The construction of cribwork at the end of the embankment next to the Gas Works.  
5. Cribwork and retaining-walls adjoining the Ballast Wharf.  
6. The construction of a bridge over proposed eighty (80) feet entrance in the north wall of the South Tidal Harbor.  
Plans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners during office hours; and printed copies of the specifications and bills of quantities will be furnished to intending contractors upon making a deposit of fifty dollars, to be returned, after the tenders are opened, to parties sending in *bona fide* tenders.  
None other than the printed form of tender issued by the Commissioners will be received.  
The Commissioners do not bind themselves to accept the lowest or any tender.  
The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, addresses, and occupations are to be inserted in full in his tender, and who are willing, with him, to be bound jointly and severally in the sum of \$50,000 for the due fulfillment of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners and their Engineer and the Contractor.  
Tenders for these works will not be considered unless accompanied by an accepted bank check, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.  
J. B. MARTEL, Secretary-Treasurer.  
HARBOR COMMISSIONERS' OFFICE, QUEBEC, 20th November, 1876.

**STEAM FANS.—**The Trustees of the Columbus Hospital for Insane will receive sealed proposals until 12, m., Thursday, December 14, 1876, for the construction and erection of a system of ventilation of the Hospital Building, by means of Steam Fans and Connections. Bids will be received for the work as follows: 1. All excavating, brickwork, stonework, &c. 2. Six steam fans and connections. 3. The whole in one job. Plans and specifications are now on file in the office of the architect upon the grounds. Bids, with guaranty bonds attached, will be furnished on application. Bids must be sealed and directed to A. D. ROYERS, Esq., President of the Board of Trustees, and indorsed for such part of the work as they may be for, and left at the architect's office upon the grounds. By order of the Board. For further information address, T. K. TINSLEY, Architect.

**PROPOSALS FOR STATE, WAR, AND NAVY DEPARTMENTS.**

Office of BUILDING FOR STATE, WAR, AND NAVY DEPARTMENTS, No. 2100 PENNSYLVANIA AVENUE, WASHINGTON, D.C., Nov. 21, 1876.  
Sealed proposals will be received at this office until 12, m. of the 21st day of December, 1876, for furnishing, delivering, fitting, and putting in place, the wrought and cast iron work, as exhibited by the drawings, described in the specifications, called for in the schedules, and required for the roofs of the two curtains of the East Wing of Building for State, War, and Navy Departments, at Washington, D.C.  
Copies of the drawings, specifications, and schedules can be had on application to this office.  
All bids must be accompanied by a penal bond, in the sum of the aggregate amount of the bid, that the bidder will accept and perform the contract if awarded to him. The sufficiency of the security to be certified by the United States Judge, the Clerk of the United States Court, or the District Attorney of the District wherein he resides.  
The undersigned reserves the right to reject any or all bids; and any bid that is not made on the form to be obtained in this office, and does not conform to the requirements of this advertisement, will not be considered.  
Proposals will not be received from parties who are not themselves engaged in the manufacture of wrought and cast iron work, and who have not the necessary facilities for getting out the work.  
Proposals will be indorsed, "Bids for Iron Work of Roof of East Wing of Building for State, War, and Navy Departments," and addressed to  
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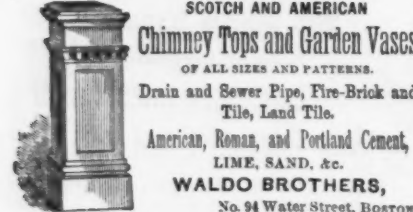
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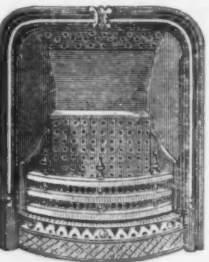
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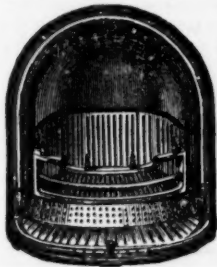
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It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 367 Washington Street, Boston, will be a very attractive resort during the next four weeks.

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Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. S. M. B. PIATT, author of "A Woman's Poems," and "A Voyage to the Fortunata Isles." 1 vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World," which is also the special title of the leading poem, — is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

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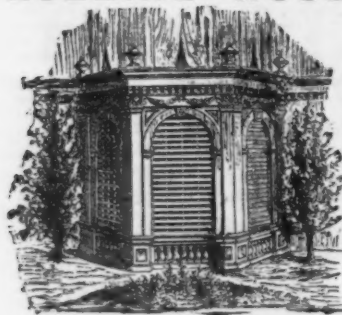
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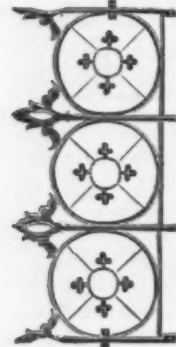
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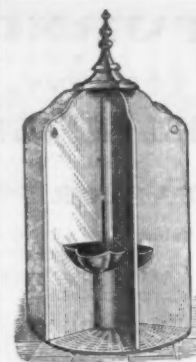
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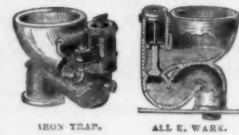
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Mr. HOTT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

**PROPOSALS.**

**NOTICE TO CONTRACTORS.**

Proposals for Furnishing the City of Boston with Granite Edgestones. Sealed Proposals will be received at the office of the Superintendent of Streets, City Hall, Boston, until Thursday, Dec. 21, 1876, 12 o'clock M., for supplying the City of Boston with fifty thousand lineal feet of granite edgestones, to be delivered in about equal monthly quantities between the first day of May and the first day of November, 1877.

The stones to be seven inches in width on top, not less than six feet in length, and of uniform depth not less than twenty inches; to be straight lined, without w.r.d., and free from bunches or depressions. To be peen-hammered on top and three inches on back; the top edges and surface to be true to line and straight edged. The front to be pointed, and the ends square and jointed the entire depth of the stone. Each and every stone to be equal, both as regards quality and finish, to the sample on exhibition in the office of the Superintendent of Streets.

Proposals to state the price per lineal foot, delivered on such streets in the city proper, South Boston, East Boston, Roxbury, Dorchester, West Roxbury, Brighton, and Charlestown, as may be designated from time to time by the Superintendent of Streets.

Separate proposals will be received for stones delivered in each of the above sections.

The successful bidder will be required to give bonds with sureties satisfactory to the Committee on Paving, for the faithful performance of the contract.

The right is reserved to reject any or all proposals. Proposals to be in force until 12 o'clock M., Dec. 23, 1876, and addressed to the CHAIRMAN COMMITTEE ON PAVING.

**PROPOSALS FOR STEAM HEATING APPARATUS AND VENTILATING APPLIANCES.**

City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What-Cheer Building, for the Steam Heating Apparatus and Ventilating Appliances, for the New City Hall Building, Providence, R. I., until 12 o'clock M., Dec. 23, 1876. Plans, specifications, and form of proposal, will be furnished bona fide bidders on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, No. 40 Water Street, Boston.

Each bid must be accompanied with a bond in the sum of \$3,000, that a contract will be signed within five days of the acceptance of a bid.

The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$10,000 for the fulfillment of the contract, which bond shall remain in force two years after the last payment shall be due. The Commissioners do not bind themselves to accept the lowest or any bid.

W. M. G. R. MOWRY, HENRY G. RUSSELL, WILLIAM M. BAILEY, City Hall Commissioners.

**QUEBEC HARBOR WORKS.**  
PROPOSED WORKS AT THE MOUTH OF THE RIVER ST. CHARLES.

Tenders will be received at the office of the Quebec Harbor Commissioners up to noon of Thursday, the first day of February, 1877, for the construction of the following works:—

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.
2. A wall and an embankment, forming the North Quay of the proposed South Wet Dock.
3. The dredging out and the formation of a channel-way parallel to both walls.
4. The construction of cribwork at the end of the embankment next to the Gas Works.
5. Cribwork and retaining-walls adjoining the Ballast Wharf.
6. The construction of a bridge over proposed eighty (80) feet entrance in the north wall of the South Tidal Harbor.

Plans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners during office hours; and printed copies of the specifications and bills of quantities will be furnished to intending contractors upon making a deposit of fifty dollars, to be returned, after the tenders are opened, to parties sending in bona fide tenders.

None other than the printed form of tender issued by the Commissioners will be received.

The Commissioners do not bind themselves to accept the lowest or any tender. The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, addresses, and occupations are to be inserted in full in his tender, and who are willing, with him, to be bound jointly and severally in the sum of \$20,000 for the due fulfillment of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners and their Engineer and the Contractor.

Tenders for these works will not be considered unless accompanied by an accepted bank check, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer.  
HARBOR COMMISSIONERS' OFFICE,  
QUEBEC, 20th November, 1876.

**PROPOSALS FOR STATE, WAR, AND NAVY DEPARTMENTS.**

Office of BUILDING FOR STATE, WAR, AND NAVY DEPARTMENTS,  
No. 2100 PENNSYLVANIA AVENUE,  
WASHINGTON, D.C., Nov. 21, 1876.

Sealed proposals will be received at this office until 12 M. of the 21st day of December, 1876, for furnishing, delivering, fitting, and putting in place, the wrought and cast iron work, as exhibited by the drawings, described in the specifications, called for in the schedules, and required for the roofs of the two wings of the East Wing of Building for State, War, and Navy Departments, at Washington, D.C.

Copies of the drawings, specifications, and schedules can be had on application to this office.

All bids must be accompanied by a penal bond, in the sum of the aggregate amount of the bid, that the bidder will accept and perform the contract if awarded to him. The sufficiency of the security to be certified by the United States Judge, the Clerk of the United States Court, or the District Attorney of the District wherein he resides.

The undersigned reserves the right to reject any or all bids; and any bid that is not made in the form to be obtained in this office, and does not conform to the requirements of this advertisement, will not be considered.

Proposals will not be received from parties who are not themselves engaged in the manufacture of wrought and cast iron work, and who have not the necessary facilities for getting out the work.

Proposals will be in force. Bids for Iron Work of Roof of East Wing of Building for State, War, and Navy Departments, and addressed to O. E. BABCOCK, Col. of Eng'rs, U.S.A.

**PROPOSALS.**

**PROPOSALS FOR CONCRETE FLOORS—**

City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What-Cheer Building, for the concrete floor, &c., in the Sub-Basement of the New City Hall Building, until 12 o'clock, M., Dec. 18, 1876.

Specifications may be had on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, 40 Water Street, Boston.

Each bid must be accompanied by a bond in the sum of \$1,000, that a contract will be signed within five days of the reception of bids.

The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$2,500 for the fulfillment of the contract. The Commissioners do not bind themselves to accept the lowest or any bid.

W. M. G. R. MOWRY, HENRY G. RUSSELL, WILLIAM M. BAILEY, City Hall Commissioners.

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For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. SAMUEL KNEELAND, Secretary, BOSTON, Feb. 1, 1876.

BUILDING MATERIALS.

LATEST NEW YORK QUOTATIONS.

Dec. 15, 1876.

BRICK. Cargo Afloat. Pale... Jersey... Long Island... Up-liver... Haverstraw Bay... Haverstraw Bay, choice... Yard prices, 50 c. per M. higher, or, with delivery added, \$2 per M. for Hard, and \$3 per M. for Front Brick.

FRONTS. Croton - Brown... Croton - Dark... Croton - Red... Philadelphia... Trenton... Baltimore... For delivery, add \$5 on Philadelphia and Trenton, and \$6 on Baltimore.

CEMENT. Rosendale... Portland... Roman... Keene's coarse... Keene's fine... FIRE BRICK. Red Welsh... Scotch... American.

DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES. 2.0 x 6.0... 2.6 x 6.6... 2.6 x 6.8... 2.8 x 6.8...

DOORS, MOULDED. Size. 2.0 x 6.0... 2.6 x 6.6... 2.6 x 6.8... 2.6 x 7.0... 2.8 x 6.8... 2.8 x 7.0... 2.10 x 6.10... 3.0 x 7.0...

GLAZED WINDOWS. Dimensions of Windows. 1 1/2 pl. 1 1/2 cc. 1 1/2 cc. 1 1/2 cc. 1 1/2 cc. 1 1/2 cc. 2.1 x 3.6... 2.4 x 3.10... 2.7 x 4.6... 2.7 x 4.10... 2.7 x 5.2... 2.7 x 5.6... 2.7 x 5.10... 2.10 x 4.6... 2.10 x 5.2... 2.10 x 5.6... 2.10 x 5.10...

OUTSIDE BLINDS. Per lineal foot, up to 2.10 wide... Per lineal foot, up to 3.1 wide... Per lineal foot, up to 3.4 wide... Per lineal foot, painted and trimmed...

INSIDE BLINDS. Per lineal foot, 4 folds, Pine... Per lineal foot, 4 folds, Ash or Chestnut... Per lineal foot, 4 folds, Cherry or Butternut... Per lineal foot, 4 folds, Black Walnut...

WINDOW FRAMES. Up to 3.4 x 7.2, put together... HAIR. - Duty free. Cattle... Goat...

LIME. State, common, cargo rate... State, finishing... Rockland, common... Rockland, finishing... Ground... Add 25 c. to above figures for yard rates.

GLASS. Duty. - Window, Polished Cylinder, and Crown, not over 10 x 15 in. 2 1/2 c. per sq. ft.; larger, and not over 16 x 24 in. 4 c. per sq. ft.; larger, and not over 24 x 30 in. 6 c. per sq. ft.; above that, and not exceeding 24 x 60 in. 20 c. per sq. ft.; all above that, 40 c. per sq. ft. On Unpolished Cylinder, Crown, and Common Window, not exceeding 10 x 15 in., sq., 1 1/2 c.; over that, and not over 16 x 24, 2 c.; over that, and not over 24 x 30, 2 1/2 c.; all over that, 3 c. per lb.

FRENCH WINDOW. List of March 1, 1876. SINGLE THICK - per box of 50 ft. Sizes. 6 x 8 - 7 x 9... 8 x 10 - 10 x 15... 11 x 14 - 12 x 16... 11 x 18 - 14 x 24... 15 x 24 - 15 x 32... 16 x 32 - 20 x 30... 22 x 30 - 15 x 38... 22 x 34 - 22 x 36... 24 x 36 - 24 x 40... 24 x 42 - 24 x 42... 26 x 46 - 30 x 48... 30 x 50 - 32 x 32... 32 x 54 - 34 x 56... 34 x 58 - 34 x 60... 36 x 60 - 40 x 60...

DOUBLE THICK. 6 x 8 - 7 x 9... 8 x 10 - 10 x 15... 11 x 14 - 12 x 16... 11 x 18 - 14 x 24... 15 x 24 - 15 x 32... 16 x 32 - 20 x 30... 22 x 30 - 15 x 38... 22 x 34 - 22 x 36... 24 x 36 - 24 x 40... 24 x 42 - 28 x 42... 26 x 46 - 30 x 48... 30 x 50 - 32 x 52... 32 x 54 - 34 x 56... 34 x 58 - 34 x 60... 36 x 60 - 40 x 60...

Sizes above, \$15 per box extra for every five inches. An additional 10 per cent will be charged for all glass more than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will be charged in the 84 united inches bracket. Discount to the trade, 50 and 10 @ 50 and 10 and 5 per cent.

AMERICAN WINDOW, per box of 50 ft. Sizes. 1st. 2d. 3d. 4th. 6 x 8 - 19 x 15... 11 x 14 - 12 x 13... 10 x 16 - 14 x 26... 18 x 22... 26 x 26 - 20 x 30... 25 x 30 - 24 x 30... 21 x 28 - 24 x 36... 25 x 36 - 26 x 44... 28 x 44 - 30 x 50... 30 x 52 - 30 x 74... 30 x 56 - 34 x 56... 34 x 58 - 34 x 60... 36 x 60 - 40 x 60...

Above \$12 per box extra for every five inches. Discount, 70 @ 75 per cent. Also sold at 60 @ 60 and 5 from French list.

GREENHOUSE, SKYLIGHT, AND FLOOR GLASS. Per square foot, net cash. 1/2 Fluted plate... 3-16 Fluted plate... 1/2 Fluted plate... 1/2 Rough plate... 1/2 Rough plate...

FOREIGN WOODS. - Duty free. CEDAR. Cuba... Mexican, small... Mexican, large... Florida... MAHOGANY. St. Domingo, crotches, ordinary to good... St. Domingo, crotches, fine... St. Domingo, logs, small... St. Domingo, logs, large... Cuba, logs, small... Cuba, logs, large... Frontera, Mexican, large... Frontera, Mexican, small... Other Mexican... Honduras...

ROSEWOOD. Rio Janeiro, ordinary to good... Rio Janeiro, good to fine... Bahia, ordinary to good... Bahia, good to fine... Honduras... SATINWOOD. Superficial foot... Tulipwood... LIGNUMVITE, small... LIGNUMVITE, large...

LATH. - Cargo rate. Pine, very choice, and extra dry... Pine, good... Pine, shipping box... Pine, common box... Pine, tally plank, 1 1/2, 10 in., dressed each... Pine, tally plank, 1 1/2, 2d quality... Pine, tally planks, 1 1/2, culls... Pine, tally boards, dressed, good... Pine, tally boards, dressed, common... Pine, tally boards, culls... Pine, strip boards, merchantable... Pine, strip boards, clear, clear... Spruce boards, dressed... Spruce plank, 1 1/2 in. dressed... Spruce plank, 2 in. dressed... Spruce wall strips... Spruce timber... Hemlock boards... Hemlock joist, 2 1/2 x 4... Hemlock joist, 3 x 4... Hemlock joist, 4 x 6... Ash, good... Oak... Chestnut boards, lin... Chestnut plank... Cypress, 1, 1 1/2, 2, and 2 1/2 in... Black Walnut, good... Black Walnut, 1/2... Black Walnut, selected and seasoned... Black Walnut counters... Cherry, good... Whitewood, chair plank... Whitewood, inch... Whitewood, 3/4 in... Whitewood, 1/2 panels... Shingles, extra shaved pine, 18 in... Shingles, extra shaved pine, 16 in... Shingles, extra shaved pine, 18 in... Shingles, clear sawed pine, 18 in... Shingles, cypress, 24 x 7... Shingles, cypress, 20 x 6... Yellow pine dressed flooring... Yellow pine girders... Locust posts, 8 ft... Locust posts, 10 ft... Locust posts, 12 ft... Chestnut posts... Cargo rates 10 per cent off.

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Chalk... China clay... Whiting... Paris white, Eng. (gold)... Zinc, white, American, dry... Zinc, white, American, in oil, pure... Lead, white, American, dry... Lead, white, American, in oil, pure... Lead, red, American... Litharge, American... Ochre, French, dry (gold)... Ochre, in oil (currency)... Venetian red, English (gold)... Spanish brown, dry... Spanish brown, in oil... Vermillion, Am. Quicksilver (gold)... Vermillion, Trieste (gold)... Carmine, American, gold... Chrome yellow, genuine, dry... Chrome yellow, in oil... Orange Mineral English, gold... Putty, pure... Sienna, raw (American)... Sienna, burnt, American... Sienna, burnt, in oil... Sienna, raw, in oil... Umber, burnt... Umber, burnt, in oil... Umber, raw... Umber, raw in oil... Black, Lamp, Coach... Black, Lamp, ordinary... Black Paint, in oil, kegs... Black Paint, in oil, cans...

PLASTER PARIS. Duty. - 20 per cent. ad val. on calcined; lump, free. Nova Scotia, white... Nova Scotia, blue... Calcined, Eastern and city... Calcined, city casting... Calcined, city superline...

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ZINC. - Duty, sheet, per lb. 2 1/2 c. Sheet (gold)...

LEAD. Bar... Sheet... Pipe... A decline of 1/2 cent. Discount 10 per cent to trade.

IRON. Duty. - Bar, 1 to 1 1/2 c. per lb.; Railroad, 70c. per 100 lb. Boiler and Plate, 1 1/2 c. per lb.; Sheet, Band, Hoop and Scroll, 1 1/2 to 1 3/4 c. per lb.; Pig, \$7 per ton; Polished Sheet, 3c. per lb.; Galvanized, 2 1/2 c. per lb.; Scrap Cast, \$6 per ton; Scrap Wrought, \$8 per ton - all less 10 per cent. No Bar iron to pay a less duty than 35 per cent ad val. Pig, Scotch, Coltness... Pig, Scotch, Gartsherrie... Pig, Scotch, Glengarnock... Pig, Scotch, Eglinton... Pig, American, No 1... Pig, American, No 2... Pig, American, Forge... Bar, refined, English and American... Bar, Swedes, assorted sizes (gold)... Store prices, cash. Bar, Swedes, ordinary sizes... Bar, Swedes, plow sizes... Bar, refined, 3/4 to 2 in. rd. & sq. - 1 to 6 in. x 3/4 to 1 in... Bar, refined, 1 1/2 to 6 x 1 1/2 & 5-16 in... Bar, refined, 1 & 1 1/2 x 1 1/2 & 5-16... Large rounds, 2 1/2 & 2 3/4... Scroll... Ovals and half round... Band, 1 to 6 in. x 3-16 to No. 12... Horseshoe... Rods, 3/4 to 3-16 in...

THE BOSTON MARKET.

Dec. 15, 1876.

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[CONTINUED ON NEXT PAGE.]



## THE BOSTON MARKET—Continued.

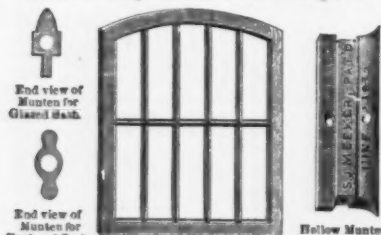
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3½ to 4½ in.	\$8 75 to \$16 00 per dozen.
Do., for front doors.	
Factory make, plain front.	\$3 25 each.
Factory make, bronze front.	5 50 each.
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<b>DOOR KNOBS.</b>	
Solid glass	per Set. \$ 50
Silvered glass	1 10
Cut glass	3 00
Nickel plated	2 00
Bronze metal	2 50
<b>SASH FASTS.</b>	
Plain brass	per Dozen. \$1 75 to \$2 50
Plain brass, self-locking	6 50 to 7 50
Nickel plated, self-locking	4 50
Bronze metal, self-locking	5 00 to 12 00
<b>SCREWS.</b>	
Round head, nickel plated	per Gross. \$2 25 \$2 00
for window beads,	1¼ 1½ in.
<b>STORE DOOR HANDLES</b> —with mortise latch.	
Lacquered brass	per Set. \$3 50
Bronze metal	7 00

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This guaranty accompanies every basin sold to our patrons:—

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2d. No overflow or leakage of any kind will occur.

3d. No sewer gas will escape from the drain or pipe, or any offensive smell arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

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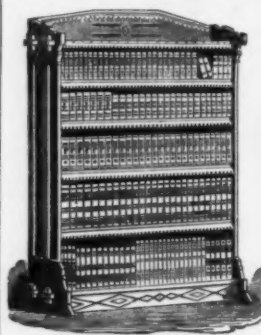
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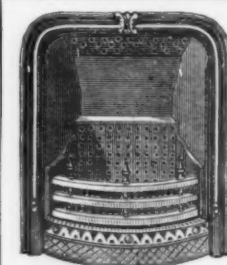
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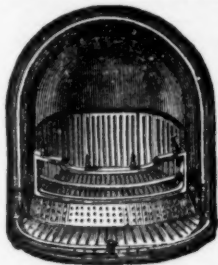
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Publishers' Department.

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The following is an alphabetical list of the advertisements which appear in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once appreciate the excellence and convenience of the arrangement.

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Heliotypes and Books for the Holidays.

During the holiday season, Messrs. James R. Osgood & Co. will occupy the capacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will embrace all the choice works published by Messrs. Osgood and Co. during the past three years, including engravings from the paintings of the most eminent modern artists, and the most renowned ancient masters, represented in the "Gray Collection" at Harvard College. This exhibition will afford a most excellent opportunity for the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Messrs. Osgood & Co., besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skeleton in Armor," by Longfellow, superbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of the year; superior in some respects to "Mabel Martin," and "The Hanging of the Crane." The works of Ten-nyson, Longfellow, Emerson, Whittier, Holmes, Lowell, and numerous other American authors, will be presented in great variety and attractiveness. Among the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres," by Boyesen; "Three Centuries of Song," edited by Whittier; "Poems of Places," edited by Longfellow; "That New World," by Mrs. J. J. Platt; "Seashore and Prairie," by Mrs. Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 387 Washington Street, Boston, will be a very attractive resort during the next four weeks.

A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. M. B. PIATT, author of "A Woman's Poems," and "A Voyage to the Fortunate Isles." 1 vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World,"—which is also the special title of the leading poem,—is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

Tales of Two Hemispheres.

James R. Osgood & Co. have published in the "Saunterer's Series," a new work by H. H. Boyesen, the popular Norwegian author, under the above title. It contains six charming stories, on Old and New World subjects, which are told with remarkable grace and attractiveness. Speaking of the leading story, "The Man who lost his Name," the New York Evening Post said: "Its author has done other work as clever as this, but nothing that we can recall which has shown so much strength." 1 vol. 8vo, \$1.25.

"Flower and Thorn."

In Mr. T. B. Aldrich's charming new volume of poems just published by James R. Osgood & Co., are included most of the poems the author has written since 1865, several of which have not before been printed. They merit in higher degree than "Cloth of Gold;" the description given of that collection by the "International Gazette," as "poems in which great delicacy of thought is combined with a felicitous choice of language."

The Kittredge Cornice and Ornament Co., Of Salem, O., has published "The Compendium of Sheet-Metal Work," which is profusely illustrated with designs of the goods manufactured by them. The book comprises more than five hundred pages, and gives prices, rules, and directions for estimates, items of cost of their various ornaments, &c. The Compendium is a very convenient publication for those who desire to use the materials made by the Kittredge Cornice and Ornament Co.

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James R. Osgood & Co. announce the following Heliotype Art Works for November and December; each containing 24 full-page Heliotypes, with descriptive letter-press. Large 4to. Tastefully bound. Price of each, \$10.00.

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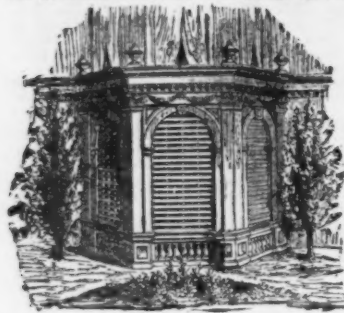
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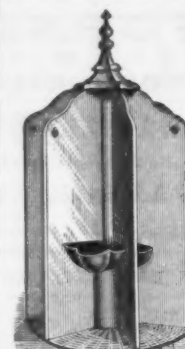
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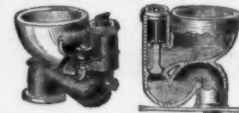
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**GOVERNMENT SALES.**—Sealed proposals are hereby invited for the purchase and removal of the following buildings erected by the United States Government in connection with the International Exhibition of 1876, viz.: 1. The Government Building at intersection of Belmont and Fountain Avenues, in Exhibition Grounds, built of frame timber, with iron roof truss, felt roof, and glazed sides; in form of Latin cross; central nave and aisles, 400x100 feet; transept, 300x100 feet, cupola at intersection surmounted by lantern; whole area, 162,840 square feet. Building to be sold as it stands, without exhibits, shafting, or gas fixture, railroad tracks, fire-plugs, hose-apparatus, or lightning-rods, and to be removed as soon after Feb. 1, 1877, as possible. Suitable for foundry, car-shops, ice-house, &c. Proposals will be received at No. 1735 F Street, Washington, D.C., until three P.M., Jan. 15, 1877, when they will be opened and award made. 2. Hospital Building, north of above, size 35x29 feet, and addition 40x14 feet, two stories high; capacity, hospital beds, with rooms for dispensary, offices, store-rooms, kitchen, &c. To be sold as it stands, and removed as soon after Feb. 1, 1877, as possible. Suitable for farm dwelling. Proposals will be received as above, until three P.M., Jan. 15, 1876. Each bid must be accompanied by a certified check for 10 per cent of the amount bid, the check to be forfeited to the Government in case the bidder shall neglect or refuse to complete the purchase by full payment within five days after notice of acceptance of his bid; and no work of removal to be begun until full payment is made. The Government reserves the right to reject all bids not deemed satisfactory. All desired information in respect to the Government Building may be had upon application to this office, or to Lieut. Henry Metcalfe, U. S. A., at the building itself; in regard to the Hospital Building, of Asst. Surg. J. J. Woodard, Army Medical Museum, Washington, D.C., or to Asst. Surg. H. C. Yarrow, at the building. All bids to be indorsed on envelope, "Bid for Government Building, International Exhibition, No. 6," or "for Hospital Building," as the case may be, and to be addressed to "Col. S. G. Lyford, Chairman Board U. S. Executive Department, D.C." S. G. LYFORD, Irev. Lieut.-Col. U.S.A., Chairman of Board, No. 1735 F Street, north-west, Washington, D.C.

**HOSPITAL AND ASYLUM WORK.**—Sealed Proposals will be received by the Board of Trustees of the Columbus Hospital for the Insane and the Ohio State Asylum for Idiots, acting conjointly, at No. 76 North High Street, Columbus, O., until Thursday, Dec. 28, at 12 M., for furnishing the materials and doing the work upon System of Sewerage, Water-head and Supply for Columbus Hospital for the Insane, and Ohio State Asylum for Idiots. Bids will be received 1. For all pipes and castings. 2. For excavating trenches and laying pipes, including the furnishing and laying of the sewer-pipes and back filling; also including earth fill under the same. 3. For all materials and labor for a drain from boiler-house of Columbus Hospital for Insane to main sewer. 4. For furnishing all the materials and doing all of the work connected with the building of the two pump and boiler houses, coal-houses, and smoke-stacks, filtering-basin, with water-ways, rip-rap work, and three cisterns. 5. For four double-acting plunger pumps, including the foundations for the same, and steam, suction, and discharge connections. 6. For boilers complete, including all brickwork and foundations, all necessary fittings, connections, and feed-pumps. 7. For all valves needed, for the steam and water covers. For the work as a whole. Plans, specifications, profiles, and detailed drawings can be seen at the office of the Ohio State Asylum for Idiots during all business hours, where all information desired by the public will be furnished. Proposals will be directed to Dr. S. S. Townsend, President of the Joint Board, and left with A. D. Rogers, Esq., President of Board of Trustees of Columbus Hospital for Insane, at No. 76 North High Street, N. S. TOWNSEND, President of Joint Board. A. D. ROGERS, President of Board of Trustees, Columbus Hospital for Insane.

**ARCHITECTS, PLANS.**—The Board of Directors of the Mount Palaski Public School will pay \$200 to the party furnishing the best plans and specifications for a Public School Building to accommodate 600 pupils. Correspondence solicited. F. D. CANS, Secretary of Board, Mount Palaski, Logan Co., Ill.

**PROPOSALS FOR STEAM HEATING APPARATUS AND VENTILATING APPLIANCES.**—City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What-Cheer Building, for the Steam Heating Apparatus and Ventilating Appliances, for the New City Hall Building, Providence, R.I., until 12 o'clock, M., Dec. 23, 1876. Plans, specifications, and details will be furnished *gratis* to intending bidders on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, No. 40 Water Street, Boston. Each bid must be accompanied with a bond in the sum of \$5,000, that a contract will be signed within five days of the acceptance of a bid. The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$10,000 for the fulfillment of the contract, which bond shall also remain in force two years after the last payment shall be due. The Commissioners do not bind themselves to accept the lowest or any bid. WM. G. R. MOWRY, HENRY G. RUSSELL, WILLIAM M. BAILEY, City Hall Commissioners.

**PROPOSALS.**

**QUEBEC HARBOR WORKS.**  
PROPOSED WORKS AT THE MOUTH OF THE RIVER ST. CHARLES.

Tenders will be received at the office of the Quebec Harbor Commissioners up to noon of Thursday, the first day of February, 1877, for the construction of the following works:—

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.
2. A wall and an embankment, forming the North Quay of the proposed South Wet Dock.
3. The dredging out and the formation of a channel-way parallel to both walls.
4. The construction of criework at the end of the embankment next to the Gas Works.
5. Criework and retaining-walls adjoining the Ballast Wharf.
6. The construction of a bridge over proposed eighty (80) feet entrance in the north wall of the South Tidal Harbor.

Plans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners during office hours; and printed copies of the specifications and bills of quantities will be furnished to intending contractors upon making a deposit of fifty dollars, to be returned, after the tenders are opened, to parties sending in *bona fide* tenders.

None other than the printed form of tender issued by the Commissioners will be received.

The Commissioners do not bind themselves to accept the lowest or any tender.

The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, addresses, and occupations are to be inserted in full in his tender, and who are willing, with him, to be bound jointly and severally in the sum of \$50,000 for the due fulfillment of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners or their Engineer and the Contractor.

Tenders for these works will not be considered unless accompanied by an accepted bank check, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer.

HARBOR COMMISSIONERS' OFFICE,  
QUEBEC, 20th November, 1876.

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For particulars address WILLIAM H. WARE, Esq., Professor of Architecture, or DR. SAMUEL KNEELAND, Secretary, BOSTON, Feb. 1, 1876.

**NORTH AMERICAN REVIEW,**

OCTOBER, 1876.

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- II. THE WHISKEY RING. H. V. BOYNTON.
- III. VON HOLST'S HISTORY OF THE UNITED STATES. HENRY ADAMS and H. C. LODGE.
- IV. AN EPISODE IN MUNICIPAL GOVERNMENT. The Shattering of the Tweed "Ring." C. F. WINGATE.
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Rio Janeiro, ordinary to good... Rio Janeiro, good to fine... Bahia, ordinary to fine... Bahia, good to fine... Honduras... Satinwood... Tulipwood... Lignumvitae, small... Lignumvitae, large... LATH. - Cargo rate... LUMBER.

Pine, very choice, and extra dry... Pine, good... Pine, shipping box... Pine, common box... Pine, common box... Pine, tally plank, 1 1/2, 10in., dressed each... Pine, tally plank, 1 1/2, 21 quality... Pine, tally plank, 1 1/2, culls... Pine, tally boards, dressed, good... Pine, tally boards, dressed, common... Pine, tally boards, culls... Pine, strip boards, merchantable... Pine, strip boards, clear... Spruce boards, dressed... Spruce plank, 1 1/2 in. dressed... Spruce plank, 2in... Spruce timber... Hemlock boards... Hemlock joist, 2 1/2 x 4... Hemlock joist, 3 x 4... Hemlock joist, 4 x 6... Ash, good... Oak... Chestnut boards, lin... Chestnut plank... Cypress, 1 1/2, 2, and 2 1/2 in... Black Walnut, good... Black Walnut, 1/2... Black Walnut, selected and seasoned... Black Walnut counters... Cherry, good... White wood, chair plank... White wood, inch... White wood, 1/2 in... White wood, 3/4 in... White wood, 1 in... Shingles, extra shaved pine, 18in... Shingles, extra shaved pine, 16in... Shingles, extra sawed pine, 18in... Shingles, clear sawed pine, 18in... Shingles, cypress, 24 x 7... Shingles, cypress, 20 x 6... Yellow pine dressed flooring... Yellow pine girders... Locust posts, 8ft... Locust posts, 10ft... Locust posts, 12ft... Chestnut posts... Cargo rates 10 per cent. off.

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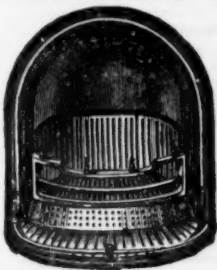
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During the holiday season, Messrs. James R. Osgood & Co. will occupy the spacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will embrace all the choice works published by Messrs. Osgood & Co. during the past three years, including engravings from the paintings of the most eminent modern artists, and the most renowned ancient masters, represented in the "Gray Collection" at Harvard College. This exhibition will afford a most excellent opportunity for the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Messrs. Osgood & Co., besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skeleton in Armor," by Longfellow, superbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of the year; superior in some respects to "Mabel Martin," and "The Hanging of the Crane." The works of Tenyson, Longfellow, Emerson, Whittier, Holmes, Lowell, and numerous other American authors, will be presented in great variety and attractiveness. Among the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres," by Boyesen; "Three Centuries of Song," edited by Whittier; "Poems of Places," edited by Longfellow; "That New World," by Mrs. J. J. Platt; "Scashore and Prairie," by Mrs. Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 387 Washington Street, Boston, will be a very attractive resort during the next four weeks.

### A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. S. M. B. PLATT, author of "A Woman's Poems," and "A Voyage to the Fortunate Isles." 1 vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World," which is also the special title of the leading poem, is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

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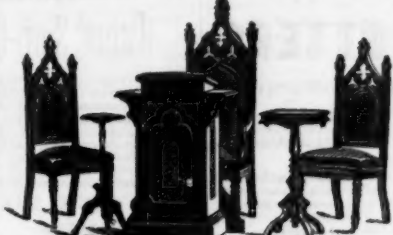
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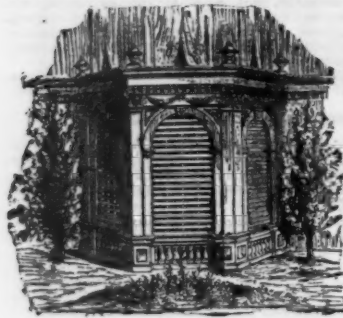
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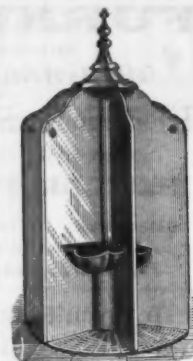
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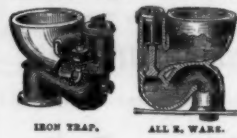
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**TO MODELLERS AND DECORATIVE SCULPTORS.**

THE Boston Society of Architects offers a prize of fifty dollars for the best model, in plaster or wood, of a frieze decoration. The models are to be executed in relief, and not larger than one by three feet. They are to be delivered at the Architectural rooms of the Massachusetts Institute of Technology, in Boylston Street, Boston, addressed to the Boston Society of Architects, with the name of the workman who executed them, before the first Friday in February, for examination at the meeting of the Society on that day. After adjudication, the approved models will be on exhibition at the Boston Museum of Fine Arts. Modellers and carvers throughout New England are invited to compete. If sufficient encouragement is found, it is intended to offer similar prizes to workmen in other branches of decorative art.

**STREET IMPROVEMENT.**—Sealed Proposals will be received at the office of the Department of City Work, City Hall, Brooklyn, N. Y., until Wednesday, Jan. 3, 1877, at 12 M., for grading Bush Street from Court to Hicks Street, according to specifications on file in this department. Specifications may be seen, and forms of proposals can be procured, on application at the Department of City Work. Proposals will not be considered unless accompanied with an undertaking in writing of two sureties on each proposal (who shall qualify as to their responsibility, in the sum of \$1,000), that if the contract be awarded to the party or parties proposing, they will become bound as his or their surety for its safe performance; and, in case he or they shall neglect or refuse to execute the contract if so awarded them, that they will pay to the city of Brooklyn the difference between the price so proposed, and the price at which the contract may be made with any other person or persons. Proposals to be inserted in the Board of City Works (specifying work). The said proposals will be publicly opened and announced at the next meeting of the said Board, which will be held on the 4th day of January, 1877, at the hour of 10 o'clock, A. M.; or, in case there should be no quorum present on that day, then on the day of the next meeting of the Board.

By order of the Common Council, H. W. SLOCUM, WILLIAM A. FOWLEER, THOMAS W. ADAMS, Commissioners of City Works. Attest: D. L. NORTHP, Secretary.

**SCHOOL BUILDING.**—Sealed Proposals will be received until Tuesday, Jan. 2, 1877, at 12 o'clock, M., for the erection and completion of a school-building in the village of Canastota, N. Y., for the Union Free School and Academy. Proposals may be made separately and for the whole work complete. Plans and specifications can be seen at the office of J. H. BELL, J. F., in Canastota. Usual privileges reserved. J. H. BELL, Secretary Board of Education.

**GOVERNMENT SALES.**—Sealed proposals are hereby invited for the purchase and removal of the following buildings erected by the United States Government in connection with the International Exhibition of 1876, viz.: 1. The Government Building at Intersection of Belmont and Fountain Avenues, in Exhibition Grounds, built of frame timber, with iron roof truss, felt roof, and glazed sides; in form of Latin cross; central nave and aisles, 400x100 feet; transept, 300x100 feet, cupola at intersection surmounted by lantern; whole area, 10,840 square feet. Building to be sold as it stands, without exhibits, shafting, or gas fixture, railroad tracks, fire-plugs, hose-apparatus, or lightning-rods, and to be removed as soon after Feb. 1, 1877, as possible. Suitable for foundry, car-shops, ice-house, &c. Proposals will be received at No. 1735 F Street, Washington, D. C., until three P. M., Jan. 15, 1877, when they will be opened and award made. 2. Hospital Building, north of above, size 325x35 feet, and addition 40x14 feet, two stories high; capacity, 60 hospital beds, with rooms for dispensary, offices, store-rooms, kitchen, &c. To be sold as it stands, and removed as soon after Feb. 1, 1877, as possible. Suitable for farm dwelling. Proposals will be received as above, until three P. M., Jan. 15, 1876. Each bid must be accompanied by a certified check for 10 per cent of the amount bid, the check to be forfeited to the Government in case the bidder shall neglect or refuse to complete the purchase by full payment within five days after notice of acceptance of his bid; and no work of removal to be begun until full payment is made. The Government reserves the right to reject all bids not deemed satisfactory. All desired information respect to the Government Building may be had upon application to this office, or to Lieut. Henry Metcalfe, U. S. A., at the building itself; in regard to the Hospital Building, of A. St. Surg. J. J. Woodward, Army Medical Museum, Washington, D. C., or to Asst. Surg. H. C. Yarrow, at the building. All bids to be indorsed on envelope, "Bid for Government Building, International Exhibition, No. 6," or "for Hospital Building," as the case may be, and to be addressed to "Col. S. G. Lyford, Chairman Board U. S. Executive Department, D. C." S. G. LYFORD, Brev. Lieut.-Col. U. S. A., Chairman of Board, No. 1735 F Street, north-west, Washington, D. C.

**PROPOSALS.**

**RAILROAD WORK.**—Bids for the construction of the Columbus and Mineral Valley Railroad will be received at the office of the undersigned, in the city of Columbus, Ohio, until noon on the 10th day of January, 1877. Bids may be made for the construction of one or more sections, or for the whole road, and may include all materials necessary to complete it for equipment. The necessary maps, profiles, and estimates for work, can be found at the office of the undersigned, where all required information may be obtained. The company reserves the right to reject any and all bids offered. JOHN M. PUGLI, President C. & M. V. Railway Co.

**CAST-IRON WATER PIPES.**—Sealed Proposals will be received at Milwaukee, Wis., until Saturday, Jan. 6, 1877, at 10 o'clock, A. M., for furnishing 200 tons cast-iron water-pipe; to be delivered at the pipe yard in said city, of description as follows:— 150 tons of six-inch, coated; 25 tons of eight-inch, coated; 25 tons of two-and-a-half-inch, coated.

To be delivered at such times and in such quantities as may be directed by the Board; the first delivery not to be required in less than thirty days after date of contract. Bidders will state a price per ton.

Bonds to accompany bids required in the penal sum of \$2,000. (Signed) MOSES LANE, JACOB VELTEN, C. L. SHOLES, BUDGETT, Commissioners of Public Works. (Counter-signed) JAMES S. WHITE, Comptroller.

**QUEBEC HARBOR WORKS.**

PROPOSED WORKS AT THE MOUTH OF THE RIVER ST. CHARLES.

Tenders will be received at the office of the Quebec Harbor Commissioners up to noon of Thursday, the first day of February, 1877, for the construction of the following works:—

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.
2. A wall and an embankment, forming the North Quay of the proposed South West Dock.
3. The dredging out and the formation of a channel-way parallel to both walls.
4. The construction of cribwork at the end of the embankment next to the Gas Works.
5. Cribwork and retaining-walls adjoining the Bullast Wharf.

The construction of a bridge over proposed eighty (80) feet entrance in the north wall of the South Tidal Harbor.

Plans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners during office hours; and printed copies of the specifications and bills of quantities will be furnished to intending contractors upon making a deposit of fifty dollars, to be returned after the tenders are opened, to parties sending in bona fide tenders.

None other than the printed form of tender issued by the Commissioners will be received, and the tenders to be accepted the lowest or any tender.

The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, addresses, and occupations are to be inserted in full in his tender, and who are willing, with him, to be bound jointly and severally in the sum of \$50,000 for the due fulfillment of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners or their Engineer and the Contractor. Tenders for these works will not be considered unless accompanied by an accepted bank check, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer. HARBOR COMMISSIONERS' OFFICE, QUEBEC, 20th November, 1876.

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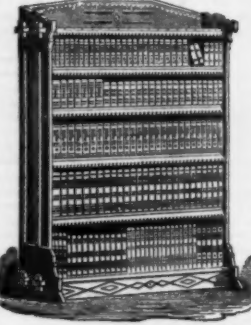
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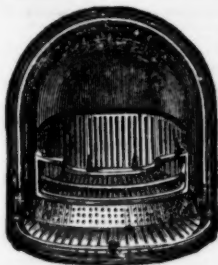
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Classified Advertisements.

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