

ORNAMENTAL & MISCELLANEOUS IRON & STEELAPPLICATION OF GENERAL CONDITIONS:

All of the works described herein are subject to the foregoing general conditions, these General Conditions becoming a part of this specification, and all work shall be carried on in accordance therewith.

WORK INCLUDED:

This contractor shall furnish and install all ornamental and miscellaneous cast and wrought iron and steel, specified or shown on plans, including metal stairs, all railings of stairs and landings, ornamental brackets forming railing of East exterior stairs, railings of concourse, galleries, Loggias, windows etc., areas gratings, ladders to roof scuttles, doorsto storage, toilet partitions, fire places dampers, vault doors shelf angles, including anchor bolts, angle lockouts anchors etc., for stone cornice, metal supports for tile partition in Kitchen; I beams lintels, etc., all in accordance with drawings and specifications and full size details.

WROUGHT IRON:

All wrought iron work shall be substantially made from malleable wrought iron; to be square or round or of the various shapes as called for; to be hammered to the outline shown on the details; to be executed in a careful and artistic manner; to be accurately fitted, thoroughly riveted together, and all ornamental portions to be wrought from the solid iron.

STEEL AND CAST IRON:

All steel and cast iron shall comply with the latest specifications of the American Society for Testing Materials for Steel or cast iron for buildings. All cast iron shall be free from cold-shuts, blow-holes, shrinkage, cracks, cavities, and other imperfections.

All casting shall be clear and sharp in outline, accurately moulded, and shall be cleaned up after casting and gone over with chisels and sharpened up by expert workmen.

DRILLING, CUTTING, PUNCHING, ETC.:

This contractor shall execute all drilling, cutting, fitting, punching, tapping, etc., of all his work wherever the carpenter or other contractors shall deem it necessary and require same to properly secure grounds, finished wood work, hardware, etc., and the cost of this work shall be included in this contract.

SETTING, WORKMANSHIP:

The work shall be brought to the building as required, and properly set into place in the best possible and most workman-like manner, rigidly and securely anchored into place all satisfactory to the Architect.

SUBSTITUTION OF SHAPES:

Substitution of sizes and shapes may be made only under the following conditions. That written permission be obtained from the Architect, and provided the strength of such substitute material shall be equal to the shapes and sizes shown on the drawings.

TOILET PARTITIONS ETC.:

Furnish and install complete with hardware the steel partitions of toilet in toilet room #4- and #12. Partitions shall be "Warsteel" finished in olive enamel all complete with finished hardware or approved metal partitions of same standard and shall be erected in a first class manner.

Furnish and install metal seats in shower rooms #5 and #40 seats shall be of same construction and finish as toilet partitions.

DAMPERS:

Furnish Richardson's or approved throat and dampers of all fire places.

ANCHORS:

Furnish all angle lockouts anchors, band anchors, etc., for stone anchoring to concrete all as shown on drawings.

DOORS TO STORAGE:

Furnish and install steel doors, including jambs for storage rooms all as shown and detailed.

VAULT DOOR:

This contractor shall furnish and install one steel vault door as shown. This contractor shall make an allowance of one hundred and fifty (\$150) for cost of vault door not including the setting of same. Vault door shall be selected by the Architect.

IRON STAIRS:

Furnish and erect the two spiral stairs of Lounge room and the stairs including landing, from Kitchen to room #63. Stairs shall be all metal and of dimensions shown on drawings and shall be rigidly constructed. Treads and platform shall be of a non-slip patten, and stairs of kitchen shall have risers. Railings shall be constructed to match railing of gallery and all work shall be neat and of the best workmanship. Contractor shall submit drawings showing detail construction for Architect's approval.

RAILINGS:

All iron railings shall be made strictly according to plans and full size detail with ornamental work all as shown.

LADDER TO ROOF:

Where shown furnish and install ladder to scuttles in roof, same shall be formed of $\frac{1}{2}$ rungs fitted into $3/8 \times 2$ " uprights and ladders shall be securely anchored into curb of scuttle opening.

AREA GRATING:

Furnish and install wrought iron grating over areas, as shown on plans, same shall be made of $\frac{1}{4} \times 1\frac{1}{4}$ " bars securely riveted to frame of $\frac{1}{2} \times 2$ " bars.

I BEAMS LINTELS ETC.:

Furnish I beams lintels for openings in East and West walls of Soda Fountain room. Furnish and install partition supports in Kitchen all as shown on plans.

SHELF ANGLES:

Furnish shelf angles to support stone and brick of exterior walls as shown. Angles shall be of size shown and there shall be 4 angles continuous around exterior walls of building all as shown on the drawings. Furnish $\frac{3}{4}$ "x8" anchors bolts, same to be spaced not over 6'0" apart all as shown.

PAINTING:

Clean all structural steel and iron free from dirt and rust and paint one good coat of non-oxidizing mineral and linseed oil paint at shop. Omit paint on any steel or iron that is to be embedded in concrete. Trusses etc., shall be painted after erection.

DETAIL SHOP DRAWINGS:

This contractor shall furnish two copies of all shop drawings, one for Architect's files and the other to be returned to the contractor with the Architect's approval, ~~with~~ which approval must be received before any work is executed. The architect will not be responsible for errors in shop drawings.

Additional prints must be furnished for all other contractors whose work is in any way engaged to the work under this contract, so that all contractors will work to insure the best results possible.

COOPERATION WITH OTHER CONTRACTORS:

This contractor shall cooperate with other contractors for the proper anchorage and placing of his work. Care should be exercised in engaging work to the concrete, plaster, brick, stone, sheet metal, etc., to avoid marring surfaces of the work of other contractors. This contractor shall be held responsible for all injury to the work of other contractors caused by installation of his work, and any damage caused by the lack of precaution and due to negligence on the part of his workmen shall be made good at this contractor's expense.

IN GENERAL:

This contractor is to furnish any and all ornamental and Miscellaneous cast and wrought iron and steel work which may be shown on the plans, elevations, sections and full size details or as may be specified in these specifications, and any and all parts or details not particularly shown or mentioned, but clearly intended or necessary to complete the ornamental and Miscellaneous iron and steel, are to be furnished and performed as directed and with the same standard of material and labor as the rest of the work.