

ITEM 11607.9130 M – PEDESTRIAN BARRIER

DESCRIPTION:

This work shall consist of furnishing and installing pedestrian barriers in accordance with the contract documents and as directed by the Engineer.

MATERIALS:

The pedestrian barrier shall be constructed of bars, posts, rails, finials, and other parts and accessories of the types and sizes shown in the contract documents. Materials for this work shall meet the requirements of the New York State Steel Construction Manual and the following sub-sections of Section 700 – Materials:

Concrete Grouting Material	701-05
Paints – General	708-01

Paint shall consist of flat primer, low luster intermediate coat, and glossy finish coat. Color of the finish coat shall be as specified in the contract documents. All paints and thinners used shall be selected from NYSDOT's approved list, "Moisture-Curing Urethane Paint Systems." All coats of paint used on any one structure shall be produced by the same manufacturer. Selection of undercoat colors is left to the discretion of the Contractor except that each single paint coat shall be a color different from the others and shall be approved by the Engineer in coordination with the Regional Landscape Architect.

Steel painting shall be in accordance with Section 572- Structural Steel Paint System: Shop Applied.

The Contractor shall submit duplicate paint chips to the Engineer in coordination with the Regional Landscape Architect for approval prior to starting painting work. Paint shall be applied in accordance with Section 740-01 – Painting Metal Structures. All steel members shall be shop painted with the approved primer and intermediate coats prior to delivery to the construction site

Structural Steel	715-01
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All structural steel work including, but not limited to, fabrication, inspection, transportation and erection shall be done in accordance with the provisions of the New York State Steel Construction Manual.

Steel Castings	715-05
Iron Castings	715-05
Steel Forgings	715-02
Malleable Iron Castings	715-09
High Strength Bolts, Nuts and Washers	715-14
Epoxy Polysulfide Grout	721-03

Shop Drawings: The Contractor shall measure the actual locations where the pedestrian barrier shall be installed and shall use this information to create accurate shop drawings. Two paper sets of shop drawings shall be submitted by the Contractor for approval by the Engineer in coordination with the Regional Landscape Architect prior to commencing work. If revisions are required, two paper sets of all

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required revised drawings must be submitted to all parties for approval. Upon approval, the Contractor shall submit four additional paper copies of the approved drawings to the Engineer.

Plates, castings, posts, rails, and finials shall be formed into panels of the sizes and shapes shown on the approved shop drawings. Panels shall be curved as required by the work. Joints shall be completely welded with welds of proper size and shape. All welds shall be ground smooth to a neat finish. The Contractor shall submit finished sample pedestrian barrier parts to the Engineer for approval. The workmanship and finish of the final product shall be equal to the approved samples.

Line and end posts shall be truly vertical (plumb). Rails and bars shall be parallel to grade except those specifically detailed otherwise in the construction documents. Connections between panels and posts shall be provided as indicated in the contract documents.

Preparation for Painting: Pedestrian barrier shall be prepared for painting in accordance with Section 572-3.01 – Cleaning, except that sandpaper, power sanders, hand scrapers, hand or power impact tools, hand or power wire brushes, and/or grinders may be used to remove scale and rust to achieve a sound substrate.

CONSTRUCTION DETAILS:

General: The Contractor shall mark and obtain approval of the proposed pedestrian barrier alignments from the Engineer in coordination with the Regional Landscape Architect prior to proceeding with shop drawings, fabrication, or installation. The Contractor shall maintain installed pedestrian barrier during the life of the contract and shall repair and replace all members that are disturbed, damaged, or destroyed.

Painting: Following the fabrication and installation of steel fences and gates on site, all welds, bolted areas and areas where paint has been damaged shall be stripped and field-painted with the approved primer and intermediate coat. The entire structure shall then be field-painted with the approved finish coat. If the colors of the primer and/or intermediate coat show through the finish coat, additional coats of the approved finish coat paint shall be applied at no expense to the State until the undercoat colors are completely masked and the finish coat color matches the approved color chip.

Installation: The Contractor shall core-drill post holes in the stone curb or other pavement in the approved locations and as required by the contract documents. The Contractor shall support each post in a manner that will keep it plumb, smoothly aligned with the other posts, or as detailed, and at the elevation required by the contract documents. The space surrounding each post shall be filled to the depth shown in the contract documents with 701-05 concrete grouting material. After the concrete grout has hardened, 721-03 epoxy polysulfide grout shall be tooled in to fill the remaining space, seal the post hole from water entry, and form a 6mm high slope away from the post. Application of both grouts shall be in strict accordance with the manufacturer's instructions.

Horizontal rails shall be set at slopes conforming to the slope of the finished grade beneath unless specifically shown otherwise in the contract documents or ordered otherwise by the Engineer.

Pedestrian barrier not set plumb and true to line and grade shall be removed and replaced at no expense to the State.

Contractor Liability: If the Contractor damages or defaces any existing or newly installed pavements, structures or plant material in the process of carrying out this work, the Contractor shall repair or replace

the damaged object at no expense to the State. Any paint splatters or overspray, metal scraps or metal

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filings shall be removed from the site before the work will be accepted.

METHOD OF MEASUREMENT:

This work will be measured for payment as the number of linear meters of pedestrian barrier satisfactorily furnished and installed.

BASIS OF PAYMENT:

The unit price bid for pedestrian barrier shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.