

ITEM 10568.64 M - METAL PEDESTRIAN BRIDGE RAILING

DESCRIPTION

This work shall consist of furnishing and erecting a metal pedestrian rail as shown on the contract plans and in accordance with these specifications.

MATERIALS

a. Material Requirements:

Railing & Balusters shall meet the requirements of ASTM A36M Steel.

Posts, Post Caps & Lamp Base shall meet the material requirements of ASTM A536 Ductile Iron Castings and shall have a minimum ultimate tensile strength of 448 MPa.

Anchor bolts, nuts and washers shall meet the requirements of ASTM F568M, A563M and F436M respectively and shall be galvanized in accordance with Subsection 719-01, Type II.

Epoxy Polysulfide Grout meeting the material requirements of Subsection 721-03.

b. Fabrication and Basis of Acceptance:

The railing shall be fabricated to the dimensions shown on the contract plans and in compliance with these specifications.

1. Shop Drawings. Shop drawings shall be submitted to the Deputy Chief Engineer (Structures) for review and approval at least 45 working days prior to fabrication.

2. Welding. Shop welding shall be performed only where specifically noted on the contract plans. Transverse welds shall not be permitted unless directly called for on the contract plans.

3. Railing Assembly. All railing sections shall be fabricated so that all balusters will be vertical after erection. It is the responsibility of the Contractor to insure that all railing sections are fabricated so that the balusters are vertical upon completion of the work.

c. Finishing:

All visible components of the railing system shall be shop painted with a three coat paint system in accordance with Section 572 of the Standard Specification except as modified herein.

The requirements of Subsection 572-4 shall not apply.

The requirements of Subsection 572-5 shall not apply.

12/31/98

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CONSTRUCTION DETAILS

a. Erection of Metal Railing:

1. Inspection of Railing. Immediately prior to erection, the railing shall be inspected for damage. Bends or kinks in the railing not specifically called for in the contract plans shall constitute sufficient cause for rejection. Straightening of such bends or kinks shall not be allowed. The Engineer may order some bending or curving to allow for necessary minor adjustments.

2. Field Welding. Field welding shall not be permitted unless noted in the contract plans or ordered by the Engineer.

3. Positioning posts. Posts shall be positioned as specified in the contract plans and shall be set vertical. The bottom of the post shall be shimmed using an epoxy polysulfide grout meeting the material requirements of section 721-03. Any excess grout extruding beyond the edges of the post shall be neatly trimmed away before the grout has set.

3. Touch-up Painting. Any damage to the paint on the railing system shall be repaired in accordance with Subsection 572-3.06; except that only a finish coat shall be applied.

METHOD OF MEASUREMENT

The quantity to be measured for payment under this item shall be the number of linear meters of railing, measured along the centerline of railing anchorage, between the extreme outer limits shown on the Contract Plans, installed in accordance with the plans and these specifications.

BASIS OF PAYMENT

The unit price bid per linear meter of railing shall include the cost of furnishing all labor, materials and equipment necessary to complete this work. The cost of drilling and grouting the anchor bolts in place shall be paid for under its own item.

No payment shall be made for those railing pieces which are replacements for those railing pieces that have been rejected.

12/31/98