

## **ITEM 607.70 10 M – FENCE AND GATE FOR L.I.R.R.**

### **DESCRIPTION**

Under this item, the Contractor shall furnish and install steel fences and gates in accordance with the Contract Drawings, these specifications and/or as directed by the Engineer. In addition, the Contractor shall coordinate the gate with Long Island Rail Road to ensure that the lock provided and installed by L.I.R.R. works with the gate provided by the Contractor.

### **MATERIALS**

Steel used for posts, rails, and connections shall be ASTM A709M Grade 250 and conform to the requirements of §715-01 of the Standard Specifications. Bolts, nuts, and washers shall conform to §715-14. All steel shall be galvanized in conformance with §719-01.

Hinges shall conform to ASTM A240M and ASTM A666, Type 316L stainless steel.

The fabric for the fence and gate shall be 11 gauge galvanized steel 25 mm grid pattern wire and shall conform to §710-02. Paint for the fence and gate shall conform to Subsection 572-2.

### **CONSTRUCTION DETAILS**

The fence at four locations shall be installed during a weekend double track outage. Fence posts shall be connected to the steel stair in accordance with the Contract Drawings. Wire mesh shall be connected to the fence frame in accordance with the Contract Drawings.

Gate posts shall be connected into a precast concrete landing pad using expansion anchors and in accordance with the Contract Drawings.

L.I.R.R. will provide and install a lock for the gate that must work with the gate to be provided by the Contractor. Close coordination with L.I.R.R. is required.

Shop drawings shall be provided in accordance with the requirements of the New York State Steel Construction Manual (NYSSCM), except that the drawings shall be submitted to the Engineer and L.I.R.R. for approval.

All welded connections shall be shop fabricated except for connections between posts and the stair stringers and conform to AWS Standards and the New York State Steel Construction Manual unless otherwise noted. All welds shall be grounded smooth.

In plan view, the side of the fence closest to the track must not have any members closer to the track than the edge of the through girder to avoid any interference with the L.I.R.R. train envelope.

### **METHOD OF MEASUREMENT**

Payment for fences and gates at all four locations will be made on a lump sum basis.

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**BASIS OF PAYMENT**

The lump sum bid price for all four fences and gates shall include the cost of all labor, materials and equipment necessary to complete the work including attaching the fence and gate to stair stringers and posts to precast concrete landing pads. Concrete pads are to be paid for under separate items.