

SPECIFICATION SECTION 08700 – PROTECTION FENCE

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SPECIFICATION SECTION 08700 – PROTECTION FENCE

1. DESCRIPTION

This Specification Section prescribes the requirements for furnishing and erecting protection fence on parapets of the bridges in accordance with the details lines and levels shown on the Drawings and to the approval of the Engineer.

2. MATERIAL REQUIREMENTS

2.1 Steel Grid

The steel grid shall be woven 2.6 mm galvanized steel wire in a 25 mm mesh and shall meet the requirements of ASTM A 510M.

Zinc coated steel wire shall be in accordance with ASTM A641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.

2.2 Posts and Rails

Line posts and rails shall be galvanized shape steel conforming to the requirements of ASTM A27. The steel used in all structural shapes shall conform to the requirements of ASTM A709, Grade 250, and shall be galvanized in accordance with the requirements of ASTM A123. Post and rails shall demonstrate the ability to withstand testing in salt spray in accordance with ASTM B 117 with 5% or less red rust over a 1,000 hours.

2.3 Tension Wires

Tension wire shall be 4 mm marcelled steel wire with the same coating as the steel grid and shall conform to ASTM A 586.

2.4 Marking

Each roll of wire shall carry a tag showing; the kind of base metal (steel, aluminum, or aluminum alloy number), the kind of coating, the gauge of the wire, the length of fencing or wire in the roll and the name of the manufacturer. Posts, tensioning wires and other fittings shall be identified according to manufacturer, type of base metal (steel, aluminum, or aluminum alloy number) and type of coating.

3. CONSTRUCTION REQUIREMENTS

3.1 Installing Posts

All posts shall be connected to the concrete parapet with bolts at the spacing shown on the Drawings.

All posts shall be set plumb and to the required grade and alignment.

3.2 Installing Top Rails

The top rail shall be continuous and shall pass through the tops of the post. The connection between top rail and posts at the required joint shown on the drawings.

3.4 Installing Fencing

The fencing infill fabric shall be firmly attached to the posts and braced in the manner shown on the Drawings. All wire shall be stretched taut and shall be installed to the required elevations.

4. SUBMITTALS

Prior to placing any fencing the Contractor shall submit for review and approval complete set of fencing shop drawings. Shop drawings shall indicate line posts, rails, tensioning wire and fencing mesh/fabric. Drawings shall include all dimensions and location information for the erection of all protection fence.

Prior to or concurrent with the submittal of fence shop drawings, the Contractor shall submit to the Engineer for review and approval the manufacturer's information and data sheets for all fencing materials demonstrating conformance with this Specification Section.

5. MEASUREMENT AND PAYMENT

5.1 Method of Measurement

- a) Protection fence will be measured for payment in the linear meters. Measurement will follow the top of the fence and be between centers of the end posts.
- b) The unit rates shall include, inter alia, all posts, rails, braces, fixtures, fittings, bolts, nuts, tension wire, tie wires, clips and incidentals.

- c) The Protection Fence provisions, material requirements, construction requirements and submittals identified in this Specification Section shall be measured for payment in pay item 08700-02.
- d) Any Protection Fence Works not specifically identified in this Specification Section but which are necessary for the performance of the Works shall be deemed to be included in pay item 08700-02.

5.2 Payment

The work under this Specification Section shall be paid for in accordance with the applicable unit prices as indicated in the Bill of Quantities and given below. Payment shall constitute full compensation for performing the requirements of the Contract for the item of work as specified including furnishing all necessary labor, materials, tools, equipment, incidentals and tests.

<u>Pay item</u>	<u>Description</u>	<u>Unit</u>
08700	Protection Fence	
08700-02	Protection Fence, Type 2 (h=1190mm)	m