SECTION 716 -- STEEL RAILINGS

716.01 -- **Description**

- 1. This work shall consist of furnishing and placing steel handrail, bridge rail, rail elements, rail posts, barrier rail, pedestrian railing, and all connecting bolts and anchors in accordance with the requirements of these *Specifications* and the plans.
- 2. The plans shall be supplemented by working drawings submitted in accordance with the requirements of Subsection 105.02.

716.02 -- Material Requirements

1. The materials shall conform to the requirements in Table 716.01.

Table 716.01

Material Requirements	
Applicable Materials	<u>Section</u>
Structural Steel	1045
Structural Threaded Fasteners	1057, 1058
Steel Pipe for Rails and Posts	ASTM A 53, Grade B
Chain Link Fence and Hardware	1064
Steel Tubing	ASTM A 500, Grade B

2. Anchor bolts shall meet the requirements of Section 1058 unless otherwise specified in the plans or special provisions. The bolt projection shall be galvanized.

716.03 -- Construction Methods

- 1. a. The Contractor shall build railing to the lines, grades, and vertical and horizontal curves shown in the plans.
- b. The Contractor shall set rail posts plumb. Concrete areas upon which railing posts are to be set shall be dressed to provide even bearing.
- 2. The Contractor shall paint all exposed metal except galvanized and weathering grade steel as prescribed in Section 709.
- 3. The Contractor shall repair galvanized coating which has been scarred, burned, or otherwise damaged in accordance with Section 1061.

716.04 -- Method of Measurement

- 1. a. Structural steel for handrails and bridge rails is measured by the kilogram.
- b. Pedestrian barrier rail, pedestrian handrail, and pedestrian railing (chain link type) shall be measured by the meter. The quantity to be paid for will be the distance in

meters between centers of end posts, with no allowance for splices, joints, overhangs, or end sections.

2. The Department computes plan quantities from end post to end post, measured horizontally, with no adjustments made for the changes in elevation.

Pay Unit

716.05 -- Basis of Payment

Pay Items

1.

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Structural Steel for Handrail	Kilogram (kg)
Structural Steel for Bridge Rail	Kilogram (kg)
Pedestrain Barrier Rail	Meter (m)
Pedestrain Railing (Chain Link Type)	Meter (m)
Pedestrian Handrail	Meter (m)

- 2. Fabrication, erection, transportation, painting, and galvanizing are subsidiary to this Section's pay items.
 - 3. Payment is full compensation for all work prescribed in this Section.