

## SECTION 59

### STEEL BEAM GUARD RAIL

#### 59.1 DESCRIPTION

##### A. General

This work consists of furnishing and construction steel beam guardrail.

##### B. Related Work

Section 19            –Incidental Work  
Section 126         Wood Preservatives and Preservative Treatments

#### 59.2 MATERIALS

##### A. Wood Posts and Offset Blocks

Wood posts and offset blocks shall be Douglas fir or Pine from sound seasoned stock. Posts and blocks shall be treated as set forth in Section [950126](#). Posts and blocks with checks or cracks more than one-fourth (1/4) inch wide and deeper than three (3) inches will not be acceptable.

##### B. Steel Beam Guard Rail

Steel beam guardrail shall be Type conforming to the requirements of AASHTO M 180.

##### C. Castings

Castings shall conform to the requirements of ASTM A47.

#### 59.3 CONSTRUCTION REQUIREMENTS

A. Posts shall be set plumb at the correct alignment in holes dug to the size specified and backfilled with satisfactory filling material compacted in layers.

B. In lieu of the above requirements, post may be set by driving. Driving shall be accomplished by mechanical means, which will give the necessary accuracy of placement without any damage.

C. Posts and rail shall be set using a string line or other method approved by the Engineer.

- D. Sub-grade shall be prepared and graded to the lines and grades shown on the plans and details. Grading will be incidental to Steel Beam Guard Rail and Breakaway Terminal End Sections.
- E. Guard rail reflectors shall be provided at all post locations for all new and temporary guardrails used. Reflectors will be incidental to Steel Beam Guard Rail.

#### **59.4 METHOD OF MEASUREMENT**

##### **A. Steel Beam Guard Rail**

Each class and type, (curved or straight) will be measured by the linear foot along the centerline of the rail. The length in feet shall be understood to be the overall length center to center of end posts or to connections with bridges and culverts.

##### **B. Breakaway Cable Terminal End Sections**

The quantity of Breakaway Cable Terminal end sections will be the actual number installed and accepted.

#### **59.5 BASIS OF PAYMENT**

- A. Steel Beam Guard Rail will be paid for at the contract unit price per linear foot to the nearest whole foot for each class and type installed. Payment will be full compensation for materials, labor, equipment, and incidentals required.
- B. Breakaway Cable Terminal End Sections will be paid for at the contract unit price for each end section installed. Payment will be full compensation for materials, labor, equipment, and incidentals required.

**END OF SECTION**