

SECTION 630 STEEL BEAM GUARDRAIL

630.1 DESCRIPTION

This work consists of furnishing and constructing steel beam guardrail.

630.2 MATERIALS

- A. **Wood Posts and Offset Blocks:** Wood posts and offset blocks shall be Douglas fir or pine from sound seasoned stock. Post and blocks shall be treated as set forth in Section 950. Posts and blocks with checks or cracks more than ¼ inch (6 mm) wide and deeper than 3 inches (75 mm) will not be acceptable.
- B. **Beam Guardrail:** Beam guardrail shall conform to AASHTO M 180, Type I, **unless the plans specify another type.**
- C. **Concrete:** Concrete shall conform to Class M6 (I28) as specified in Section 462.

630.3 CONSTRUCTION REQUIREMENTS

- A. **Post Alignment:** 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. **Driving Posts:** 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.

When guardrail posts are installed through asphalt concrete shoulders, the Contractor shall take care to minimize damage to the asphalt concrete. If during post installation the asphalt concrete shoulder is raised more than two inches, lowered more than one inch, or otherwise damaged, the Contractor shall repair the damaged shoulders.

The method of repair may require patching, recompaction, or removal and replacement of the effected asphalt concrete. The method of repair is subject to the approval of the Engineer, depending on the type and extent of the shoulder damage. All repair costs shall be at the expense of the Contractor.

- C. **Setting Posts and Rails:** Posts and rail shall be set using a string line or other approved methods.

630.4 METHOD OF MEASUREMENT

- A. **Beam Guardrail:** Each class and type will be measured to the nearest linear foot (0.1 meter) along the centerline of the rail. The length in feet (meters) shall be the overall length center to center of end posts or to connections with bridges.
- B. **End Sections:** The quantity of end sections will be the actual number installed.

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630.5 BASIS OF PAYMENT

- A. **Beam Guardrail:** Beam guardrail will be paid for at the contract unit price per linear foot (0.1 meter) for each class and type installed. Payment will be full compensation for materials, labor, equipment, and incidentals required.
- B. **End Section:** End sections will be paid for at the contract unit price per each. Payment will be full compensation for labor, materials, equipment, and incidentals required.