

STEEL BACKED TIMBER GUARDRAIL

**\*\*From Randolph BHO 1444(51)**

- xx. DESCRIPTION. This work shall consist of furnishing and erecting steel backed timber guardrail, anchors, and corrosion resistant guardrail posts as shown in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 621 of the Standard Specifications.

- xx. MATERIALS.

- (a) Concrete. Concrete for anchors shall meet the requirements of Section 541 for Concrete, Class B.
- (b) Steel Posts. Steel posts shall meet the requirements of Subsection 728.02(d) for corrosion resistant steel. Steel posts shall be galvanized in accordance with AASHTO M 111M/M 111, except for the top of the post for a length between 622 mm and 686 mm (2' - 0 ½" and 2'-3"), that will remain above the ground line.
- (c) Steel Rails and Splice Plates. The steel rails and splice plates shall conform to AASHTO M 270M/M 270, Grade 50 and shall be galvanized in accordance with AASHTO M 111M/M 111. Steel rails and splice plates shall be air cooled and not quenched once galvanized.

After galvanizing, steel rails and splice plates shall be painted brown. Painting shall be performed in accordance with Section 513 and Subsection 708.03.

- xx. CONSTRUCTION REQUIREMENTS.

- (a) Anchoring Guardrail. Guardrail shall not be connected to the concrete anchors until the concrete has been allowed to cure for a minimum of seven (7) days.
- (b) Steel Posts. On the rail side of the post, two coats of a zinc rich paint shall be applied to both sides of the steel post flange for the full depth of timber blocking. Surface preparation and painting shall be performed in accordance with Section 513.

- xx. METHOD MEASUREMENT. The quantity of Special Provision (Steel Backed Timber Guardrail, Painted w/Weathering Steel Posts) to be measured for payment will be the number of meters (linear feet) installed in the complete and accepted work, measured within the pay limits shown on the Plans and as specified in the Contract Documents. The measured quantity will be multiplied by factors shown on the Plans.

- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Steel Backed Timber Guardrail, Painted w/Weathering Steel Posts)

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will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for furnishing, detailing, transporting, handling, and placing the materials specified, including enlarging holes as necessary for placement of posts; furnishing and placing concrete fill and backfill material; compacting backfill to the satisfaction of the Engineer; surface preparation and painting; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.640 Special Provision (Steel Backed Timber Guardrail, Painted w/Weathering Steel Posts)	Meter (Linear Foot)