

GUARDRAIL, WEATHERING

****The following provisions are for use on projects requiring weathering guardrail and are final for repetitive use. The provisions below were written for projects requiring the specified pay items; the pay item listing should be modified to meet the needs of a particular project.**

- xx. DESCRIPTION. This work shall consist of furnishing and erecting corrosion resistant guardrail 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.

For W-beam rail:

Steel guardrail beam (W-beam), including that used in guardrail end sections and terminals, shall meet the requirements of Subsection 728.02(d) for corrosion resistant steel.

When steel posts are specified, they shall have the same corrosion resistance as specified for the guardrail beam. 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' - ½" and 2'-3"), that will remain above the ground line.

Steel offset blocks shall be of the same material as the post with no galvanizing applied.

Backup plates shall be of the same material as the guardrail beam.

In terminals or end sections, all posts or assemblies shall be galvanized to at least 75 mm (3 ¼") above the ground line. The remainder above the ground shall be of the same material as the guardrail beam with no galvanizing applied.

Bolts, nuts, washers, and miscellaneous hardware shall conform to the requirements of Subsection 728.03.

For box beam rail:

Steel guardrail beam (box beam), including that used in guardrail end sections and terminals, shall conform to the requirements of ASTM A 847/A 847M.

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' - ½" and 2'-3"), that will remain above the ground line.

Steel support angles, splice plates, and cover plates shall be of the same material as the post with no galvanizing applied.

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In terminals or end sections, all posts or assemblies shall be galvanized to at least 75 mm (3 ¼") above the ground line. The remainder above the ground shall be of the same material as the guardrail beam with no galvanizing applied.

Bolts, nuts, washers, and miscellaneous hardware shall conform to the requirements of Subsection 728.03.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Guardrail Approach Section, Weathering Type II)(Wood Posts) to be measured for payment will be the number of units of each type installed in the complete and accepted work.

The quantities of Special Provision (Manufactured Terminal Section, Flared/Weathering) and Special Provision (Manufactured Terminal Section, Tangent/Weathering) to be measured for payment will be the number of units of each type installed in the complete and accepted work.

The quantities of Special Provision (Steel Beam Guardrail, Weathering), Special Provision (Steel Beam Guardrail, Weathering w/2.4 m (8 feet) Posts), Special Provision (HD Steel Beam Guardrail, Weathering), Special Provision (HD Steel Beam Guardrail, Weathering)(Wood Posts), Special Provision (HD Steel Beam Guardrail, Weathering w/2.4 m (8 feet) Posts), Special Provision (HD Steel Beam Guardrail, Weathering w/2.4 m (8 feet) Posts)(Wood Posts), Special Provision (HD Steel Beam Guardrail, Weathering/Curb Mounted), Special Provision (HD Steel Beam Guardrail, Weathering/Fascia Mounted), Special Provision (HD Steel Beam Guardrail, Weathering/Nested), Special Provision (HD Steel Beam Guardrail, Weathering/Nested w/2.4 m (8 feet) Posts), and Special Provision (Box Beam Guardrail, Weathering) to be measured for payment will be the number of meters (linear feet) of rail used in the complete and accepted work, measured within the pay limits shown on the Plans and as specified in the Contract Documents.

- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Guardrail Approach Section, Weathering Type II)(Wood Posts) will be paid for at the Contract unit price for each. Payment will be full compensation for furnishing, transporting, handling, and placing the material specified, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

The accepted quantities of Special Provision (Manufactured Terminal Section, Flared/Weathering) and Special Provision (Manufactured Terminal Section, Tangent/Weathering) will be paid for at the Contract unit price for each. Payment will be full compensation for furnishing, transporting, handling, and placing the material specified, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

The accepted quantities of Special Provision (Steel Beam Guardrail, Weathering), Special Provision (Steel Beam Guardrail, Weathering w/2.4 m (8 feet) Posts), Special Provision (HD Steel Beam Guardrail, Weathering), Special Provision (HD Steel Beam Guardrail, Weathering)(Wood Posts), Special Provision (HD Steel Beam Guardrail, Weathering w/2.4 m (8 feet) Posts), Special Provision (HD Steel Beam Guardrail, Weathering w/2.4 m (8 feet) Posts) (Wood Posts), Special

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Provision (HD Steel Beam Guardrail, Weathering/Curb Mounted), Special Provision (HD Steel Beam Guardrail, Weathering/Fascia Mounted), and Special Provision (Box Beam Guardrail, Weathering) will be paid for at the Contract unit price per meter (linear foot). Payment will be full compensation for furnishing, transporting, handling, and placing the material specified, 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>
900.620 Special Provision (Guardrail Approach Section, Weathering Type II) (Wood Posts)	Each
900.620 Special Provision (Manufactured Terminal Section, Flared/Weathering)	Each
900.620 Special Provision (Manufactured Terminal Section, Tangent/Weathering)	Each
900.640 Special Provision (Steel Beam Guardrail, Weathering)	Meter (Linear Foot)
900.640 Special Provision (Steel Beam Guardrail, Weathering w/2.4 m (8 Feet) Posts)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering)(Wood Posts)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering w/2.4 m (8 Feet) Posts)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering w/2.4 m (8 Feet) Posts) (Wood Posts)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering/Curb Mounted)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering/Fascia Mounted)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering/Nested)	Meter (Linear Foot)
900.640 Special Provision (HD Steel Beam Guardrail, Weathering/Nested w/2.4m (8 Feet) Posts)	Meter (Linear Foot)
900.640 Special Provision (Box Beam Guardrail, Weathering)	Meter (Linear Foot)