

Specification For Supply And Installation Metal Beam Approach Guardrail - 6212

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1 GENERAL

1.1 Description

1.1.1 The work shall consist of either of the following as identified in the Special Provisions:

1.1.1.1 Installation of new metal beam approach guardrail and installation of new bridgerail to guardrail transitions at the locations and in conformity with the dimensions and other details shown on the plans or designated by the Engineer.

or;

1.1.1.2 Installation of new guardrail materials including posts at the locations and in conformity with the dimensions and other details shown on the plans or designated by the Engineer.

2 MATERIALS

2.1 Bridgerail to guardrail transitions and new material for metal beam guardrail, if required, will be supplied and paid for by Contractor.

2.2 100% of the treated timber guardrail posts will not be salvageable. New treated timber guardrail posts will be supplied and paid for by the Contractor.

3 CONSTRUCTION

- 3.1 The Contractor shall repair or replace, at no direct expense to the Ministry, any metal beam guardrail material damaged by his operations.
- 3.2 The surface cross section of the road shall be completed before the guard rail posts are installed.
- 3.3 The post hole shall be of sufficient size to provide a clear distance of five centimetres (5 cm) around the post.
- 3.4 Before the posts are backfilled, the metal beam rail shall be attached to the posts. The edges and center of the corrugated metal beam railing shall be in contact with each post. Guardrail laps shall overlay in the direction of traffic so there is no snag or catch points when impacted. Bolts shall be tightened and exposed threads burred.
- 3.5 The height, line, and grade of the posts shall be adjusted to give the metal beam rail a uniform and pleasing appearance of line and grade.
- 3.6 The spaces around the posts shall be backfilled with earth material, free of large stones. The backfill material shall be placed in layers not exceeding fifteen centimetres (15 cm) in depth and shall be firmly tamped. If required, water may be used to aid compaction.
- 3.7 Damaged galvanized surfaces shall be thoroughly cleaned and painted with an approved zinc-rich paint, as directed by the Engineer.

4 MEASUREMENT

- 4.1 Metal Beam Approach Guardrail will be measured in metres. Measurement will be made from end to end along the face of the rail, including terminal sections. No extra allowance will be made for laps of splices.

5 PAYMENT

- 5.1 Payment for SUPPLY AND INSTALL METAL BEAM APPROACH GUARDRAIL will be at the contract unit price per metre. The unit price will be full compensation for storing, handling, and hauling new materials to the bridge site; supply and installing approach guardrail, hardware and posts, bridgerail to guardrail transitions; supply and installing collapsible terminals; supplying and placing concrete for collapsible terminal concrete footings; excavating holes; placing

posts; attaching metal beam rail; burring the bolts and placing, watering, and tamping the backfill material.