

Tender No. [ ]

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## 1.0 GENERAL

### 1.1 DETAIL DRAWINGS

- .1 The following detail drawing is appended hereto and forms part of this section.

<u>Number</u>	<u>Title</u>
[02843.01]	[Typical Livestock Guard]

### 1.2 REFERENCES

- .1 Provide livestock guards in accordance with the following standards (latest revision) except where specified otherwise.
- .2 Canadian General Standards Board (CGSB)
- .1 CAN/CGSB-1.40 Anticorrosive Structural Steel Alkyd Primer.
- .3 Canadian Standards Association (CSA)
- .1 CSA-G40.20 General Requirements for Rolled or Welded Structural Quality Steel.
- .2 CSA-G40.21 Structural Quality Steel.
- .3 CAN/CSA-S16 Limit States Design of Steel Structures.
- .4 CSA-W47.1 Certification of Companies for Fusion Welding of Steel Structures.
- .5 CSA-W48 Filler Metals and Allied Materials for Metal Arc Welding.
- .6 CSA-W59M Welded Steel Construction (Metal Arc Welding) (Metric Version).
- .4 Structural Steel Painting Council (SSPC)
- .1 SSPC-SP-6 Commercial Blast Cleaning.

### 1.3 SUBMITTALS

- .1 Provide the following submittals.
- .2 Shop drawings of the gates, including material specifications, dimensions, finishes, and other details, at least 20 days prior to fabrication.
- .3 Manufacturer's written instructions for repair of damaged coating prior to performing the work.

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## **1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Inspect each shipment of material and timely replace any damaged materials.
- .2 Unload, handle, and store materials using methods and equipment that do not cause damage to the gates or shop-applied coatings.

## **2.0 PRODUCTS**

### **2.1 MATERIALS**

- .1 Provide materials in accordance with the following.
- .2 Hollow structural sections: In accordance with CSA-G40.21, 350W steel.
- .3 Steel sections and plates: In accordance with CSA-G40.21, Grade 300W.
- .4 Barbed wire: Refer to Section 02825 – Barbed Wire Fencing.

### **2.2 SHOP FABRICATION**

- .1 Employ a fabricator certified by the Canadian Welding Bureau in accordance with CSA-W47.1, Division 3.
- .2 Fabricate the livestock guards in accordance with CSA S16. Perform welding in accordance with CSA-W59 using welding electrodes in accordance with CSA-W48.
- .3 Prior to shop painting, commercial blast clean steel surfaces in accordance with SSPC-SP-6 and provide a 0.050 mm profile.
- .4 Shop paint steel surfaces with 2 coats of red coloured oil alkyd primer in accordance with CAN/CGSB-1.40. Apply paint in accordance with the paint manufacturer's written instructions.

## **3.0 EXECUTION**

### **3.1 INSTALLATION**

- .1 Install the livestock guards at the locations, of the sizes, and to the lines, grades, slopes, and elevations specified in the Contract Documents.
- .2 Excavate the foundation pit to the specified depth, and of sufficient size to accommodate the entire gate.
- .3 Centre the gate with the road centre line and orient it so that it is perpendicular to the road alignment.
- .4 Fasten barbed wire to the end fence posts.
- .5 Clean the gate and foundation pit of any accumulations of soil and debris.

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**3.2 REPAIR OF DAMAGED COATING**

- .1 Power tool clean surfaces to be repaired and re-coat with the specified primer in accordance with the paint manufacturer's written instructions.

**END OF SECTION**