

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 This section specifies the requirements for metal fabrication including the supply and installation of protective posts.

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .3 Section 03 30 00 - Cast-in-Place Concrete.

1.3 REFERENCES

- .1 Do welding to CSA W59-1989 unless specified otherwise.
- .2 Steel for structural and other shapes shall conform to CAN 3 G40.21M.

1.4 SUBMITTALS

- .1 Shop Drawings
  - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.

1.5 MEASUREMENT FOR PAYMENT

- .1 No measurement for payment to be made under this section. Include all cost incidental to unit price for item for which metal fabrications are required.
  - .2 Protective Posts: No separate payment will be made for protective posts. All cost to be included in the fixed price for electrical work.
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PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Steel sections and plates: to CAN/CSA-G40.20/G40.21, Grade 350W.
- .2 Steel pipe for protective post to be 203mm diameter epoxy coated galvanized steel pipe.
- .3 Welding materials: to CSA W59.
- .4 Welding electrodes: to CSA W48 Series.
- .5 Bolts and anchor bolts: to ASTM A307.
- .6 Galvanizing: to CSA G164
- .7 Shop Coat Primer to: CGSB1-GP-40M
- .8 Grout: Non-shrink, non-metallic, flowable, 28 day compressive strength: 35 MPa.
- .9 Hilti HSLM12/25 anchor bolt or approved equivalent.
- .10 Paint: Alkyd/Oil Resin paint similar to Pittsburgh Paints "Safety Yellow", Product ID 7-808. Paint to conform to CAN/CGSB-1.61-2004.
- .11 Cold Process Galvanizing - Galvalume paint treatment or approved equivalent.

2.2 FABRICATION

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .2 Field check all dimenstions, elevations, etc., prior to fabrication.
- .3 Fabricate items from steel as specified.

PART 3 - EXECUTION

3.1 PROTECTIVE  
POSTS

- .1 Install protective posts as detailed and in locations indicated on the drawings. Concrete for foundation and pipe to be in accordance with Section 03 30 00 - Cast-in-Place Concrete.
- .2 Paint steel post. Use two (2) coats of best quality oil base exterior marine paint as specified. Ensure first coat is dry before second coat is applied.