

PART 1 - GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 01 33 00 - Submittal Procedures.
 - .2 Section 31 53 13 - Timber Cribwork.
 - .3 Section 31 53 16 - Structural Timber.
- 1.2 REFERENCES
- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A 53/A53M-latest edition, Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Steamless.
 - .2 ASTM A 269-latest edition, Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
 - .3 ASTM F3125-latest edition, Specification for Steel, 120,000 PSI Tensile Strength.
 - .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.40-latest edition, Anti-corrosive Structural Steel Alkyd Primer.
 - .2 CAN/CGSB-1.181-latest edition, Ready-Mixed, Organic Zinc-Rich Coating.
 - .3 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G40.20/G40.21-latest edition, General Requirements for Rolled or Welded Structural Quality Steel.
 - .2 CAN/CSA-G164-latest edition, Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA-S16.1-latest edition, Limit States Design of Steel Structures.

.4 CSA W48-latest edition, Filler Metals and Allied Materials for Metal Arc Welding (Developed in co-operation with the Canadian Welding Bureau).

.5 CSA W59-latest edition, Welded Steel Construction (Metal Arc Welding).

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's:
 - .1 For finishes, coatings, primers and paints.
- .2 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.

1.4 QUALITY ASSURANCE

- .1 Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.5 DELIVERY, STORAGE, AND HANDLING .1

Packing, Shipping, Handling and Unloading:

.1 Deliver, store, handle and protect materials in accordance with Section 01 61 00 - Common Product Requirements.

.2 Storage and Protection:

.1 Cover exposed stainless steel surfaces with pressure sensitive heavy protection paper or apply strippable plastic coating, before shipping to job site.

.2 Leave protective covering in place until final cleaning of building. Provide instructions for removal of protective covering.

1.6 MEASUREMENT FOR PAYMENT .1

No measurement for payment shall be made under this section. Include all costs of items required under this section in units costs for which item is required.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Steel sections and plates: to CAN/CSA-G40.20/G40.21, Grade 300W or better, galvanized finish.

.2 Welding materials: to CSA W59.

.3 Welding electrodes: to CSA W48 Series.

.4 Bolts and anchor bolts: to ASTM A 307.

.5 Grout: non-shrink, non-metallic, flowable, 15 MPa at 24 hours.

2.2 FABRICATION

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .2 Use self-tapping shake-proof flat headed screws on items requiring assembly by screws or as indicated.
- .3 Where possible, fit and shop assemble work, ready for erection.
- .4 Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush.

2.3 FINISHES

- .1 Galvanizing: hot dipped galvanizing with zinc coating 600g/m² to ASTM A123. All steel used shall be hot dipped galvanized.
- .2 Shop coat primer: to CAN/CGSB-1.40.
- .3 Zinc primer: zinc rich, ready mix to CAN/CGSB-1.181.

2.4 SHOP PAINTING

- .1 Not required.

2.5 STEEL H-PILE GUIDES

- .1 Steel H-Pile Guides and Floating Dock Attachment to H-Pile Guide: sizes and shapes as indicated.
- .2 Galvanize all steel in H-Pile guide and floating dock attachment to H-Pile guide after fabrication.
- .3 All hardware shall be galvanized.

2.6 DOCK TO DOCK FLIP PLATE

- .1 Dock to Dock Flip Plate: sizes and shapes as indicated.

.2 All connection plates shall be galvanized.

.3 All hardware shall be galvanized.

2.7 GALVANIZED
FLOATING DOCK
ATTACHMENTS

.1 Galvanized Floating Dock Attachments: sizes and shapes as indicated, including dock-to-dock connections and chain connection of docks to marginal wharf.

.2 Galvanize after fabrication.

.3 All hardware to be galvanized.

2.8 GALVANIZED
CONCRETE DECK EDGE
ANGLE

.1 Galvanized Concrete Deck Edge Angle: sizes and shapes as indicated.

PART 3 - EXECUTION

3.1 ERECTION

.1 Do welding work in accordance with CSA W59 unless specified otherwise.

.2 Erect metalwork square, plumb, straight, and true, accurately fitted, with tight joints and intersections.

.3 Exposed fastening devices to match finish and be compatible with material through which they pass.

.4 Make field connections with bolts to CAN/CSA-S16.1, or weld.

.5 Hand items over for casting into concrete or building into masonry to appropriate trades together with setting templates.

- .6 Touch-up rivets, field welds, bolts and burnt or scratched surfaces after completion of erection with primer.
- .7 Touch-up galvanized surfaces with zinc rich primer where burned by field welding.

- 3.2 STEEL H-PILE GUIDES .1 Install new galvanized steel H-Pile guide and attachment of floating dock to H-Pile guide as indicated.

- 3.3 DOCK TO DOCK FLIP PLATE .1 Install new galvanized flip plate between floating docks as indicated.

- 3.4 GALVANIZED FLOATING DOCK ATTACHMENTS .1 Install new galvanized floating dock attachments in locations as indicated.

- 3.5 GALVANIZED CONCRETE DECK EDGE ANGLE .1 Install new galvanized concrete deck edge angle as indicated.

- 3.6 CLEANING .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
.2 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION