

**PART 1 - GENERAL**

- 1.1 RELATED WORK .1 Submittal Procedures: Section 01 33 00.
- .2 Construction/Demolition Waste Management and Disposal: Section 01 74 21.
- 1.2 DESCRIPTION OF WORK .1 The work of this Section comprises the furnishing of all labour, materials and equipment necessary for the supply and installation of items of work specifically listed under Part 2 - PRODUCTS of this Section, as specified in this Section and shown on the Drawings.
- 1.3 MEASUREMENT FOR PAYMENT .1 Payment for the mooring cleats and ladders will be measured as individual units for elements incorporated into work.
- .2 Measurement for Payment of other items indicated shall be paid as a lump sum.

**PART 2 - PRODUCTS**

- 2.1 MOORING CLEATS .1 Size and material as indicated on drawings and to Departmental Representative's requirement.
- 2.2 MISCELLANEOUS METAL .1 Steel sections and plates: to CAN/CSA G40.21, Grade 350W except where specified otherwise.
- .2 Steel pipe and handrails: to ASTM A53, CSA S16.1, Schedule 40 and as indicated on drawings.
- .3 Ladder rungs: to CSA C-40.21 round bars to size as indicated.
- .4 Welding materials: to CSA W59.
- .5 Bolts and anchor bolts: to ASTM A307.

2.3 GALVANIZING

- .1 Hot dip galvanize bolts, nuts and washers and unless otherwise specified, staples, cable clamps, pipe sleeves, spikes and nails to CAN/CSA-G164. All steel materials shall be hot dipped galvanized (min. 700gr/m3) suitable for marine environment.

**PART 3 - EXECUTION**

3.1 CLEATS

- .1 Install at locations indicated on drawings.

3.2 MISCELLANEOUS METALS

- .1 Do miscellaneous steel work in accordance with CAN/CSA S16.1.
- .2 Welding in accordance with CSA W59. Install miscellaneous site items as indicated on drawings.

3.3 FABRICATION GENERAL

- .1 Fabricate steel, as indicated, in accordance with CAN/CSA-S16.1 and in accordance with reviewed shop drawings.
- .2 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .3 Use welded connections for both interior and exterior metal work unless otherwise indicated or approved by Departmental Representative.
- .4 Use self-tapping, shake-proof countersunk flat headed screws on items requiring assembly by screws, or as indicated.
- .5 Where possible, fit and shop assemble work, ready for erection.
- .6 Ensure exposed welds are continuous for length of each joint. File or

grind exposed welds smooth and flush.

.7 Grind and polish all exposed edges and corners to leave smooth surface free from burrs or other sharp protrusions.

.8 All holes shall be punched or drilled. Burning holes in any steel member is NOT permitted.

3.4 CONNECTION TO  
EXISTING WORK

.1 Examine dimensions, alignment, elevations and condition of work before commencing fabrication and report any discrepancies and potential problem areas to Departmental Representative and await instructions.

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