

Wharf Repairs

Bay St. Lawrence, Victoria County, NS

Project No. R.117914.001

Cleaning

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- 1.1 General
- .1 Conduct cleaning and disposal operations to comply with all applicable laws and ordinances.
 - .2 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
 - .3 Prevent accumulation of waste which create hazardous conditions.
 - .4 Provide adequate ventilation during use of volatile or noxious substances.
- 1.2 Cleaning During Construction
- .1 Maintain the work, at least on a daily basis free from accumulations of waste material and debris.
 - .2 Provide on-site containers for collection of waste materials and debris.
 - .3 Remove all waste and debris from site.
- 1.3 Final Cleaning
- .1 In preparation for acceptance of the project on an interim or final certificate of completion perform final cleaning.
 - .2 Remove grease, dust, dirt, stains, and other foreign materials from finished surface.
 - .3 Remove all surplus materials, debris, tools and equipment.

-----END of SECTION-----

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Metals and Metal Fabrication

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PART 1 - GENERAL

- 1.1 Reference Standards
- .1 ASTM A307-14, Specification for Carbon Steel Bolts and Studs, 60,000 psi tensile.
 - .2 CSA G164, Hot Dip Galvanizing of Irregularly Shaped Articles
 - .3 ASTM B111-1974 (or latest edition), Wire Nails, Spikes and Staples.
 - .4 CAN/CSA-G40.21-13, Structural Quality Steels.
 - .5 CAN/CGSB-1.181-1999 (or latest edition), Ready-Mixed Organic Zinc-Rich Coating.
 - .6 CAN/CSA-S16-14, Design of Steel Structures.
 - .7 CSA W59-13, Welded Steel Construction (Metal Arc Welding).
- 1.2 Shop Drawings
- .1 Submit shop drawings for all items not detailed on the Plans in accordance with Section 01 33 00.
 - .2 Contractor is responsible to review project plans for accuracy of the detail dimensions, general fit-up of parts to be assembled, adequacy of proposed methods and procedures or for errors or defects contained in the details.
 - .3 Indicate materials, core thicknesses, finishes, connections, joint, method of anchorage, number of anchors, supports, reinforcement, details and accessories.
 - .4 Contractor's responsibility to confirm on site the exact locations and construction of related work to which work under this section connects to, or is supported on.

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- 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.
- 1.3 Measurement for Payment
- .1 This item shall not be measured separately but shall be considered incidental to the Work in accordance with Section 01 29 00 - Project Particulars and Measurement

PART 2 - PRODUCTS

- 2.1 Materials
- .1 Steel Sections: to CAN3-G40.21, Grade 350W.
 - .2 Steel plates and angles: to CAN#-G40.21, Grade 300W
 - .3 Welding materials: to CSA W59
 - .4 Bolts and anchor bolts: to ASTM A307
 - .5 All steel will be hot-dipped galvanized unless otherwise indicated
 - .6 Galvanizing: hot dipped galvanizing with zinc coating 600 g/m² to CSA G164
 - .7 Zinc primer: Zinc rich, ready mix to CGSB 1-GP-181
 - .8 Do not use items manufactured or fabricated from scrap steel of unknown chemical composition or physical properties.
- 2.2 Fabrication
- .1 Build work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
 - .2 Fabricate items from steel unless otherwise noted.
 - .3 Where possible, fit and shop assemble work, ready for installation.

- .4 Ensure exposed welds are continuous for length. File or grind exposed welds smooth and flush.
- 2.3 Miscellaneous Metal Work Items
 - .1 Miscellaneous anchors, bolts and inserts:
 - .1 Where size, spacing and the like are not indicated, provide as necessary for the purpose.
 - .2 Galvanize all miscellaneous anchors, bolts and inserts.
 - .2 Miscellaneous Steel:
 - .1 Provide miscellaneous steel as required for guide units and the like to the shape, size and details required.
 - .2 Galvanize all miscellaneous steel.

PART 3 - EXECUTION

- 3.1 Erection
 - .1 Install metalwork square, plumb, straight and true, accurately fitted with tight joints and intersections.
 - .2 Make field connections with bolts to CSA S16.1, or weld.
 - .3 Touch-up bolts and scratched surfaces after completion of erection with zinc primer.

-----END of SECTION-----