

SPECIFICATIONS

055000 METAL FABRICATIONS

1.1 REFERENCES

- 1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A53/A53M-02, Specification for Pipe, Steel, Black and Hot_Dipped, Zinc_Coated Welded and Steamless.
- 2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA G164-M92 R1998, Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .2 CAN/CSA S16.1-01, Limit States Design of Steel Structures.
 - .3 CSA W48-01, Filler Metals and Allied Materials for Metal Arc Welding (Developed in co_operation with the Canadian Welding Bureau).
 - .4 CSA W59-1989 R2001, Welded Steel Construction (Metal Arc Welding) (Imperial Version).

1.2 SUBMITTALS

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

2 Products

2.1 MATERIALS

- .1 Steel pipe: to ASTM A53/A53M standard weight black.
- .2 Welding materials: to CSA W59.

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 oval 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 600 g/m² to CAN/CSA G164.
- .2 Shop coat primer: to CAN/CGSB 1.40.
- .3 Zinc primer: zinc rich, ready mix to CAN/CGSB 1.181.

2.4 ISOLATION COATING

- .1 Isolate aluminum from following components, by means of bituminous paint:
 - .1 Dissimilar metals except stainless steel, zinc, or white bronze of small area.
 - .2 Concrete, mortar and masonry.
 - .3 Wood.

2.5 SHOP PAINTING

- .1 Apply one shop coat of primer to metal items, with exception of galvanized or concrete encased items.
- .2 Use primer unadulterated, as prepared by manufacturer. Paint on dry surfaces, free from rust, scale, grease. Do not paint when temperature is lower than 7 degrees C.
- .3 Clean surfaces to be field welded; do not paint.

2.6 PIPE RAILINGS

- .1 Steel pipe: size, formed to shapes and sizes as indicated.
- .2 Shop coat prime interior railings after fabrication. Alternate price galvanize exterior pipe railings

3 Execution

3.1 ERECTION

- .1 Do welding work in accordance with CSA W59 unless specified otherwise.
- .2 Provide suitable means of anchorage acceptable to consultant such as dowels, anchor clips, bar anchors, expansion bolts and shields, and toggles.
- .3 Exposed fastening devices to match finish and be compatible with material through which they pass.
- .4 Provide components for building by other sections in accordance with shop drawings and schedule.
- .5 Make field connections with bolts to CAN/CSA_S16.1, or weld.
- .6 Hand items over for casting into concrete or building into masonry to appropriate trades together with setting templates.
- .7 Touch-up rivets, field welds, bolts and burnt or scratched surfaces after completion of erection with primer.
- .8 Touch-up galvanized surfaces with zinc rich primer where burned by field welding.

3.2 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

099000 PAINTING

Part 1 General

1.1 REFERENCES

- 1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM D610-01, Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces.
 - .2 ASTM D2369-03, Test Method for Volatile Content of Coatings.
 - .3 ASTM D2832-92 R1999, Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .4 ASTM D5326-94a 2002, MPI-9 Test Method for Color Development in Tinted Latex Paints.
- 2 Environmental Choice Program (ECP).
 - .1 CCD-048-95, Recycled Water_borne Surface Coatings.
 - .2 CCD-047a-98, Paints - Surface Coatings.
 - .3 Federal Standard (FS).
 - .1 FS-595B 89, Paint Colours.

Part 2 Products

2.1 MATERIALS

- .1 Acceptable paint manufactures
 - .1 Glidden Professional
 - .2 PPG Architectural Finishes, Inc.
 - .3 Sherwin Williams Benjamin Moore & Co.
- .2 Source Limitations: Obtain paint materials from single source from single listed manufacturer.

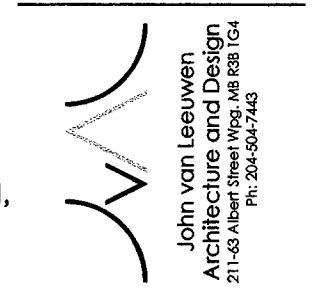
2.2 PAINT

- .1 Structural Steel and Metal Fabrications:
 - .1 EXT 5.1C Water based light industrial G5 coating over alkyd primer. Colour to be determined by City of Winnipeg Project Manager

Part 3 Execution

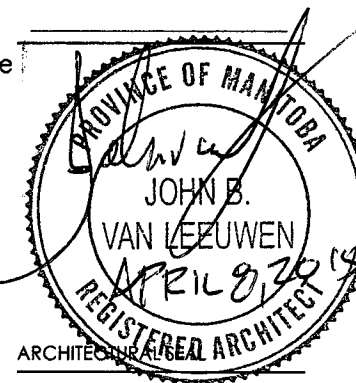
- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.
- .2 Complete work in accordance with Master Painters Institute Specifications and approved procedures.

END OF SECTION



CITY OF WINNIPEG
CENTRAL FREIGHT HOUSE
WHEELCHAIR RAMP AND STAIR
RETROFIT - DOOR 6
WINNIPEG, MANITOBA

CLIENT REVIEW SIGNATURE:



ARCHITECTURE
SHEET TITLE:
SPECIFICATION

PROJECT NO: 2014052 C
DRAWN BY: RR
CHECKED BY: JV
SCALE:
ISSUED FOR: CONSTRUCTION
ISSUE DATE: APRIL 8, 2015

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