

Part 1 General

1.1 REFERENCES

.1 ASTM International

- .1 ASTM A653 / A653M-15 *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process*

.2 CSA International

- .1 CSA G40.20/G40.21-04 (R2009) *General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel*

1.2 SUBMITTALS

- .1 Submit Shop Drawings before starting fabrication.

Part 2 Products

2.1 MATERIALS

- .1 Steel sections and plates: to CSA G40.20/G40.21, Grade 300W
.2 Zinc-coated (galvanized) sheet steel, CS Type, to ASTM A653M, coating designation Z275

2.2 GENERAL

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured. Where possible, fit and shop assemble work, ready for installation. Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush.

2.3 COVER FOR SLACK ROPE MECHANISM (PORTAGE DAM)

- .1 Fabricate and install slack rope mechanism cover, for each of the three gates to protect against limit switch against oil splashing.

2.4 COVER FOR DRUM HOUSING (PORTAGE DAM)

- .1 Fabricate and install a new cover for one housing over the left wire rope drum on Gate #3 to replace that which was damaged and is bent and rusty. Use original shopdrawing H23 *Drum Housing* for dimensions, along with field measurements as required, to complete fabrication.
.2 **Material.**—mild steel to G40.20.
.3 **Finish.**—One coat of primer followed by as many coats of paint as required to achieve minimum 500µm dry film thickness. Paint system component to be the products of a single manufacturer who certifies them as being both compatible with each other and, when working together, suitable for protecting steel in outdoor exposure in rural atmospheric conditions. Primer and intermediate coat(s) must all be of variously contrasting colours to assist painters during application. Topcoat colour: mid-blue shade reasonably close to existing colour.

Part 3 Execution

3.1 EXAMINATION

- .1 Take all measurements on site as required to design and fabricate components. This is likely most convenient to do when the wire rope is removed from the hoists.

3.2 FABRICATION

- .1 Do not weld or solder galvanized sheet; use crimping, mechanical locking, or other cold-joining methods.

3.3 PROTECTION

- .1 Protect adjacent components from damage during measurement and installation processes.
- .2 Repair damage to adjacent materials caused by installation.

END OF SECTION