406 Aluminum Ladder System

Part 1- General

1.1 Standards

- .1 Conform to CAN3-S157 -M83 Strength Design in Aluminum.
- .2 Conform to CSA W59.2 -M191 Welded Aluminum Construction and CSA W47.2-M1987 Certification of Companies for Fusion Welding of Aluminum.
- .3 Ladder Systems shall be MSU Mississauga Type 406 Aluminum Ladder System as manufactured by MSU Mississauga Ltd. 2222 S. Sheridan Way, Mississauga, Ontario L5J 2M4, 1-800-268-5336, www.msumississauga.com, sales@msumississauga.com.

1.2 Quality Assurance

.1 Welding shall only be undertaken by a company Certified by the Canadian Welding Bureau to the requirements of CSA Standard W47.2-M1987, Certification of Companies for the Fusion Welding of Aluminum.

1.3 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01300 Submittals.
- .2 Indicate materials, thicknesses, weld symbols, reinforcement, details and accessories.
- .3 Manufacturer shall supply installation drawings and instructions.

Part 2- Products

2.1 Materials

- .1 Aluminum Extruded Shapes: to CSA HA.5-M1980, Alloy 6061-T6.
- .2 Fasteners & Rivets in 304 stainless steel.

2.2 Fabrication

- .1 Fabricate square, true, and accurate to required size, with joints closely fitted. Remove all burrs and sharp edges.
- .2 Rung spacing shall be 300mm centre to centre.
- .3 Attachment brackets shall be spaced at 1500mm maximum centre to centre.
- .4 Aluminum shall be isolated from contact with the concrete with bituminous paint.
- .5 Ladders longer than 6.4M shall be spliced.
- .6 Ladders longer than 5M shall be equipped with an MSU #3108 Safety Cage system.

2.2 Fabrication (continued)

- .7 Ladders accessing roofs shall be equipped with an MSU #406-ext Self Supporting Entry and Exit Extension System.
- .8 Where required equip with padlockable Ladder Gate at base of ladder to deter unauthorized access

2.3 Aluminum Ladders

- .1 Provide the appropriate ladders complete with all necessary attachment brackets to the dimensions on the Contract Drawings. Ensure all ladders are:
 - .a welded to CSA W47.2,
 - .b equipped with offset wall brackets and wedge,
 - .c designed by a professional engineer registered in the Province of Ontairo, and
 - .d where required equip ladders with MSU #3108 safety cage system; cage shall clamp around ladder side rails with horizontal hoop sections spaced at 1.5M maximum; vertical cage shall consist of 5 hollow oval bars evenly spaced around the circumference of the cage and attached to the support hoops with stainless steel rivets.

Part 3- Execution

3.1 Installation

.1 Install access ladders where indicated on the drawings.