

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 03 30 00 - Cast-in-Place Concrete.
- .2 Section 05 50 00 - Metal Fabrications.

1.2 REFERENCES

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.40-97, Primer, Structural Steel, Oil Alkyd Type. Anticorrosive Structural Steel Alkyd Primer.
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .3 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual.
 - .1 MPI #79, Primer, Alkyd, Anticorrosive for Metal.
 - .2 MPI EXT 5.1, Structural Steel and Metal Fabrications.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit manufacturer's printed product literature and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
 - .1 Submit electronic copy of WHMIS MSDS - Material Safety Data Sheets.
- .2 Submit shop drawings and indicate:
 - .1 Dimensions of pit and required clearances.
 - .2 Arrangement of storage tank, pump, jacks, mechanical linkages and valves and piping, with sizes and working pressure.
 - .3 Details of cylinder, plunger, pump, motor, valves and operating station, showing names of manufacturers, type or style designations, part numbers, and hp and rpm of motor.
 - .4 Factory test data of cylinder containing complete information covering test, cylinder material, inside and outside diameters and maximum test pressure.
 - .5 Details of electrical equipment.
- .3 Quality control submittals:
 - .1 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures.
- .4 Closeout Submittals:
 - .1 Provide operation and maintenance data for dock lift maintenance for incorporation into manual and include:
 - .1 Complete description and sequence of operation together with wiring diagrams showing electrical connections, manufacturer's instructions

covering maintenance requirements, and parts catalogue giving complete list of repair and replacement parts with cuts and identifying numbers.

- .2 Dimensioned drawing of lift installation as installed.

1.4 QUALITY ASSURANCE

- .1 Pre-Installation Meetings: convene pre-installation meeting one week prior to beginning work of this Section, with contractor's representative, Departmental Representative to verify project requirements.

1.5 EXTRA MATERIALS

- .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Provide complete set of tools necessary to maintain and adjust every part of lift.
- .3 Provide high pressure cartridge refill type grease gun and extra cartridge of recommended lubricant, if equipment pressure gun lubricated.

Part 2 Products

2.1 EQUIPMENT

- .1 Elevating dock:
 - .1 Provide stationary, pit installed, dock lift designed with following characteristics:
 - .1 Capacity: 5443kg.
 - .2 Lift Vertical travel: 1499 mm.
 - .3 Raised height: 1143 mm.
 - .4 Lowered height: 356 mm.
 - .5 Lifting speed: 3.1 mm/s.
 - .2 Platform size: 2438 mm wide by 3658 mm long, constructed of non-skid, checkered steel plate welded to steel reinforcing members with strength for capacity ratings.
 - .3 Construct scissor leg assembly of high tensile steel.
 - .4 Provide 457 x 1524 mm, hinged lip with lifting chain, two sides of platform, same material as platform.
 - .5 Provide removable 1067 mm high, guard rails on two sides.
 - .6 Provide steel tapered toe guards.
 - .7 Provide safety stripping four sides of unit.
 - .8 Provide factory prewired wall-mounted electrical power pack unit consisting of electrical motor, pump, wiring, conduit, oil piping, remote pushbutton control with 4 m cord and accessories.
- .2 Oil Reservoir:
 - .1 Make oil reservoir integral with torque tube assembly or separate welded steel tank, galvanized inside and out.

- .2 Equip reservoir with strainer assembly and overflow and drain connections and protected vent opening.
- .3 Provide initial filling of oil for system.
- .3 Operating station:
 - .1 Install wall mounted operating station where indicated.
 - .2 Provide operating positions, clearly and permanently marked UP, DOWN.
 - .3 Operate by handle or [push-buttons for each position.
 - .1 Return operating handle to OFF position when released while moving dock in any direction, and stop dock in position at moment of release pushbuttons stop motion when released.
 - .4 Operate limit switches or similar devices at extreme positions of ramp travel to protect power system and mechanism from damage.
 - .5 Provide automatic safety lock to limit downward travel of dock platform to maximum 100 mm in event trailer or truck moves away from dock while carrying load up to maximum capacity.
- .4 Power supply:
 - .1 Power supply: as indicated, 5hp.
 - .2 Electrical service specified in Section 26 05 00 - Common Work Results for Electrical includes: fused disconnect switch with conductors from switch to controller or starter.
- .5 Optional Accessories:
 - .1 Warning bell (to indicate lift in motion).
 - .2 Warning horn with adjustable volume control mounted on power unit (to indicate lift in motion).
 - .3 Flashing amber warning beacon mounted on power pack. 24 VAC control. Up travel limit switch.
 - .4 Return line oil filter.

2.2 FINISHES

- .1 Paint exposed ferrous metal work unless otherwise specified.
- .2 Free surfaces of rust and coat with rust resistant paint.
- .3 Clean but do not paint surfaces to be field welded.
- .4 Apply two coats of anticorrosive structural steel alkyd primer to MPI EXT 5.1 to surfaces of structural members and frame of ramp excepting finished or working surfaces.
 - .1 Primer: maximum VOC limit 250 g/L to Standard GC-03.
- .5 Apply heavy coat of bituminous paint to concealed surfaces before building-in.
 - .1 Adhesives: maximum to SCAQMD Rule #1113.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Install dock lift in accordance with manufacturer's instructions.
- .2 Install electrical motors, controller units, pushbutton stations, relays and other electrical equipment required for proper operation.
- .3 Touch up shop primer to bolts, welds, and burned or scratched surfaces at completion of installation.
- .4 Adjust dock operating components to ensure a smooth continuous raising and lowering of platforms.
- .5 Deck surface in normal down position is to be level and flush with surface of surrounding floor.
- .6 Manufacturer's Field Services:
 - .1 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

END OF SECTION