

DIVISION 10

SPECIALTIES

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 03 30 00 - Cast-in-place Concrete

1.2 REFERENCES

- .1 Manual of Uniform Traffic Control Devices for Canada
- .2 City of Winnipeg – Manual of Temporary Traffic Control in Work Areas on City Streets, most current edition.

Part 2 Products

2.1 MATERIALS

- .1 Sign supports.
 - .1 Steel posts
 - .1 Schedule 40 galvanized steel pipe to CAN3-Z245.1
 - .2 Cast in concrete pile
 - .3 38mm nominal diameter
 - .4 O.D.= 48.3mm
 - .5 Wall thickness = 3.7 mm
 - .2 Warning Sign
 - .1 Fully reflectorized white sign with black letters
 - .2 Rounded corners but conforming to the nominal dimensions for height and width shown on the drawings.
 - .3 Consistent with City of Winnipeg requirements for “Warning and Information Signs” outlined in Section 5.00 of the “Manual of Temporary Traffic Control in Work Areas on City Streets”.

Part 3 Execution

3.1 INSTALLATION

- .1 All sign locations to be confirmed with the Contract Administrator prior to installation.

END OF SECTION

Part 1 General

1.1 DESCRIPTION OF WORK

- .1 The Contractor shall furnish all labour, materials, equipment, and incidentals necessary to supply and install all manufactured specialties as shown, specified and required to complete the work of this Contract.

1.2 RELATED WORK

- .1 General Requirements – Division 01.

1.3 SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Shop drawings/product data:
 - .1 Submit shop drawings or manufacturer's product data sheets for all items.
 - .2 Indicate manufacturer, product description or model/catalogue numbers, sizes, quantities, materials and finishes, accessories, options and installation details. Indicate requirements for related work.
- .3 Samples:
 - .1 Submit samples for individual products as specified in this section.
 - .2 Submit samples for items requiring color selection by the Contract Administrator. Submit two (2) representative samples indicating manufacturer's full colour range for colour selection by the Contract Administrator.
- .4 Submit manufacturer's installation instructions.

1.4 CLOSEOUT SUBMITTALS

- .1 Submit closeout submittals in accordance with Section 01 78 00 – Closeout Submittals.
- .2 Maintenance data: submit operation and maintenance data for each specified item for incorporation into maintenance manual.
- .3 Spare parts: provide spare parts and extra materials as specified by items.

1.5 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Submit shop drawings or catalogue illustrations of all items. Clearly indicate model numbers, sizes, quantities, locations, finishes, optional features. Indicate mounting and installation details, anchorage, fasteners and relationship to building components.

1.6 WARRANTIES

- .1 Warranties shall be in accordance with the General Conditions for each item. All warranties shall be on the manufacturer's letterhead.

1.7 SITE CONDITIONS

- .1 Verify all site dimensions prior to fabrication. Indicate site dimensions on shop drawing.

1.8 MAINTENANCE DATA

- .1 Submit operating instructions and maintenance data for miscellaneous items for incorporation into Operating and Maintenance Manual specified in Section 01 78 00 – Closeout Submittals.

Part 2 Products

2.1 PRECASE CONCRETE SPLASHPADS

- .1 SplasHPads: hydraulically pressed precast concrete.
- .2 Acceptable material: Barkman 45-41001, 51” x 14 ½” x 5”, natural finish.
- .3 SplasHPads from other manufacturers that meet or exceed the specifications are acceptable.

2.2 DOOR SIGN

- .1 Fix to the doors identified – front incised white coloured letters on plain black background for metal doors.
- .2 Aluminum minimum 3 mm thick x 75 mm thick x length required for the word. Adhere to the doors with adhesive.
 - .1 Leachate Sampling Building

2.3 EXTERIOR PROCESS SIGNAGE

- .1 Leachate Sampling Building
 - .1 Provide one (1) Leachate Sampling Building sign to be mounted on the exterior of the building facing West at 1500 mm above finished grade, above the leachate hose gate assembly.
 - .1 Sign to be 4 mm Aluminum
 - .2 Letters and border to be black, sign to be white.
 - .3 Dimensions to be 300 mm x 450 mm
 - .4 Signs to read:
Line 1 = “LEACHATE SAMPLING BUILDING”
Line 2 = “DO NOT DISCHARGE WASTEWATER”
- .2 Hauled Wastewater Building 2
 - .1 Provide one (1) Hauled Wastewater Building sign to be mounted on the exterior of the building at 1500 mm above finished grade, below the Hauled Wastewater Building alarm beacon.
 - .1 Sign to be 4 mm Aluminum
 - .2 Letters and border to be black, sign to be white.
 - .3 Dimensions to be 300 mm x 450 mm
 - .4 Signs to read:
Line 1 = “HAULED WASTEWATER RECEIVING STATION”
Line 2 = “RED LIGHT = DO NOT DISCHARGE WASTEWATER”
Line 3 = “GREEN LIGHT = READY TO ACCEPT WASTEWATER”

2.4 TANK 2 ACCESS HATCH CHAIN HOIST

- .1 Provide one (1) manual hand chain block with minimum 200 kg capacity
- .2 Suspended from a hook
- .3 Open type chain drive mechanism
- .4 Stainless steel chain
- .5 Chain lengths suitable for operation by operator while standing on floor of stairwell and to allow tank hatch to be lowered to floor
- .6 Kone Cranes or approved equal in accordance with B7

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

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

3.2 SITE VERIFICATION

- .1 Verify all dimensions on site prior to fabrication. Fabricate items in accordance with sizes, profiles, finishes required and indicated.

3.3 INSTALLATION

- .1 Install and secure items rigidly in place in accordance with reviewed shop drawings and manufacturers printed instructions and templates, except where indicated otherwise.
- .2 Coordinate installation of anchors, brackets and hangers with work of other trades.
- .3 File smooth or burr smooth exposed sharp edges and corners.
- .4 Install and secure fixtures rigidly in place as follows:
 - .1 Stud walls: screws in solid backing. Toggle bolts not acceptable.
 - .2 Solid concrete: bolts and expansion anchors.
- .5 Install equipment as per manufacturer's recommendations.

3.4 ADJUSTMENT AND CLEANING

- .1 At completion of installation test and adjust specialties for proper function.
- .2 Clean materials of dust, dirt and other markings using cleaning agents recommended by manufacturer. Clean and polish glass, chrome and other bright polished or glossy surfaces.

END OF SECTION