

Part 1 General

1.1 SUMMARY

- .1 This Section includes the following:
 - .1 Exterior Washroom Signage

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 45 00 - Quality Control.
- .3 Section 01 78 00 - Closeout Submittals.
- .4 Section 06 20 00 - Finish Carpentry.
- .5 Section 05 50 00 - Metal Fabrications.
- .6 Section 06 10 13 - Wood Blocking and Curbing.
- .7 Section 09 91 99 – Painting for Minor Works.

1.3 SUBMITTALS

- .1 Submit submittals in accordance with Section 01 33 00.
- .2 Submit shop drawings, catalogue sheets and full size templates.
- .3 Indicate materials, thicknesses, sizes, finishes, colours, construction details, mounting methods.
- .4 Submit full size templates, drawn-to-scale details for individually fabricated or incised lettering indicating word and letter spacing.
- .5 Submit duplicate representative sample of each type sign and mounting method.

1.4 QUALITY ASSURANCE

- .1 Installer Qualifications: Workers sufficiently trained to undertake the required installations.
- .2 Product Options: Drawings indicate locations of all installations.
- .3 Each supplier shall be responsible for adjustments to place equipment to the satisfaction of the Contract Administrator, and the City of Winnipeg. The supplier shall co-operate with other trades concerned in this matter. The manufacturer and supplier assume responsibility for the equipment to meet all applicable regulatory standards for the installation intended.

1.5 PROJECT CONDITIONS

- .1 Field Measurements: Indicate measurements on Shop Drawings.

Part 2 Products

2.1 EXTERIOR WASHROOM SIGNAGE

- .1 Cut aluminum plate with threaded rod pin mounted (concealed mount) to wood cladding. Sign graphics to be well defined, arranged for balanced appearance, and properly word and letter spaced per drawings.
- .2 Materials: 6mm thick aluminum plate, size and finish to approved shop drawings and samples with clear anodized finish.
- .3 Braille; Clear plastic "Raster" type. Confirm Braille text to conform with City of Winnipeg requirements.
- .4 Refer to Drawings for letters and symbols, and mounting heights.
- .5 Stainless Steel cut letters welded to custom stainless steel plate sign box integrated into exterior wood cladding. Sign graphics to be well defined, arranged for balanced appearance, and properly word and letter spaced according to drawings.
- .6 Letters Materials: 13mm thick stainless steel plate with brushed vertical finish.

2.2 FABRICATION

- .1 Fabricate signs in accordance with details, specifications and approved shop drawings.
- .2 Build units square, true, accurate to size, free from visual or performance defects.
- .3 Accurately fit and securely join sections to obtain tight, closed joints.
- .4 Allow for thermal movement without distortion of components.
- .5 Exposed fasteners permitted only where indicated or approved by Contract Administrator and to be inconspicuous and same finish and colour as base material, or as noted.
- .6 Manufacturer's nameplates on sign surface locations visible in completed work not acceptable.
- .7 Refer to Specification Section 05 50 00 – Metal Fabrications for additional information.

Part 3 Execution

3.1 INSTALLATION

- .1 Erect and secure signs plumb and level at elevations indicated on drawings and as directed by Contract Administrator.
- .2 Comply with sign manufacturer's installation instructions and approved shop drawings.

3.2 ADJUSTING AND CLEANING

- .1 Clean signs in accordance with Section 01 74 11 – Cleaning.
- .2 Repair damaged finishes so no evidence remains of corrective work. Use only materials and procedures recommended by manufacturer. Replace units that cannot be restored to their factory-finished appearance.

3.3 SCHEDULE

- .1 Refer to Drawings for locations.

END OF SECTION

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 45 00 - Quality Control.
- .3 Section 01 61 00 - Common Product Requirements.
- .4 Section 01 73 00 - Execution Requirements.
- .5 Section 01 74 11 - Cleaning.
- .6 Section 01 78 00 - Closeout Submittals.
- .7 Section 04 05 00 – Commons Work Results for Masonry
- .8 Section 04 22 00 - Concrete Unit Masonry
- .9 Section 09 30 13 - Ceramic Tiling
- .10 Section 10 28 10 - Toilet and Bathroom Accessories.

1.2 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM A167 2004, Standard Specification for Stainless and Heat Resisting Chromium Nickel Steel Plate, Sheet, and Strip.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB71.20 M88, Adhesive, Contact, Brushable.
- .3 Canadian Standards Association (CSA International)
 - .1 CSAB651 04, Accessible Design for the Built Environment.
- .4 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS)

1.3 SYSTEM DESCRIPTION

- .1 Compartment Configurations for both Interior and Exterior Compartments:
 - .1 Toilet / Change Room Partitions: Floor-to-ceiling.
 - .2 Urinal screens: Floor mounted.
- .2 Supply complete with all mounting accessories necessary for the complete installation of partitions. Refer to Drawings.

1.4 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature for toilet partitions or components, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.

- .3 Shop Drawings:
 - .1 Shop drawings: submit detailed shop drawings in electronic format for the Departmental Representative's review within (2) weeks of being awarded this subcontract.
 - .2 Indicate fabrication details, plans, elevations, hardware, and installation details.
- .4 Samples:
 - .1 Submit one returnable, 300 x 300 mm samples of panel showing finish on both sides, two finished edges and core construction. Samples shall be submitted to the Departmental Representative for approval not later than (10) days after award of this subcontract. All samples must be properly identified including: name of supplier, and name of manufacturer.
 - .2 Submit duplicate representative samples of each hardware item, including brackets, fastenings and trim.
- .5 Submit following in accordance with Section 01 45 00 - Quality Control.
 - .1 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, and cleaning procedures.
 - .2 Manufacturer's Field Reports: submit manufacturer's written reports within 3 days of review, verifying compliance of Work, as described in PART 3 - FIELD QUALITY CONTROL.
- .6 Closeout Submittals:
 - .1 At completion of the job, furnish to the City of Winnipeg (2) copies of an City of Winnipeg's Operation and Maintenance Manual. The Manual shall consist of a hard cover three ring binder with the project name in the front. Include in the manual the following information: Maintenance instructions, Catalogue pages for each product, Name/Address and phone number of the Manufacturer and their Sales Agent, Copy of the final shop drawings.

1.5 QUALITY ASSURANCE

- .1 Substitutions: Manufacturers and model number listed are to establish a standard of quality. Similar items by approved manufacturers that are equal in design, function, quality and finish may be accepted upon prior written approval from the Departmental Representative.

- .2 All requests for acceptable substitutions must be made in writing and submitted to the **Departmental Representative** at least 7 days prior to tender closing. If requested, all requests for substitutions must be accompanied by product literature and actual product samples.
- .3 Supplier Qualifications:
 - .1 Toilet Partition shop drawings and Toilet Partitions shall be procured from a source of supply approved by the Departmental Representative. Supplier is responsible for the complete Toilet Partition subcontract.

1.6 WARRANTIES

- .1 Provide manufacturer's 25 year warranty against breakage, corrosion and delamination under normal conditions.

1.7 DELIVERY, STORAGE AND HANDLING

- .1 Toilet Partitions must be delivered to the job Site in the manufacturers' original packages and marked to correspond with the approved shop drawings.
- .2 Protect finished laminated plastic surfaces during shipment and installation. Do not remove until immediately prior to final inspection. Products

Part 2 Products

2.1 MATERIALS

- .1 Doors, Panels and Pilasters:
 - .1 High density polyethylene (HDPE), fabricated from polymer resins compounded under high pressure, forming single thickness panel.
 - .2 Waterproof and nonabsorbent, with self-lubricating surface, resistant to marks by pens, pencils, markers, and other writing instruments.
 - .3 25.4mm (1 inch) thick with edges rounded to 6mm (1/4 inch) radius
 - .4 Fire hazard classification: Not required.
- .2 Aluminum Extrusions: ASTM B221, 6463-T5 alloy and temper.
- .3 Stainless Steel: ASTM A167, Type 304.
- .3 Pilaster shoes: Interior Compartments: 0.8 mm stainless steel, 75 mm high
Exterior Compartments: 75mm plastic to match compartment colour.
- .4 Attachment: stainless steel tamper proof type screws and bolts.
- .5 Colours: To be selected from Standard Range of Colours.

Standard of Acceptance

- .1 Hiny Hiders by Scranton Products, Ph. (204) 256-5449

2.2 HARDWARE

- .1 Hinges:
 - .1 200mm (8 inches) long, fabricated from heavy-duty extruded aluminum

with bright dip anodized finish, wrap-around flanges, adjustable on 30-degree increments, through bolted to doors and pilasters with stainless steel, Torx head sex bolts. Hinges operate on field-adjustable nylon cams, field adjustable in 30 degree increments.

- .2 Door Strike and Keeper:
 1. 152mm (6 inches) long, fabricate from heavy-duty extruded aluminum with bright dip anodized finish, with wrap-around flanges secured to pilasters with stainless steel tamper resistant Torx head sex bolts.
 2. Bumper: Extruded black vinyl.
- .3 Latch and Housing:
 - .1 Heavy-duty extruded aluminum.
 - .2 Latch housing: Bright dip anodized finish
 - .3 Slide bolt and button: Black anodized finish
- .4 Coat Hook/Bumper:
 - .1 Combination type, chrome plated Zamak.
 - .2 Equip outswing handicapped doors with second door pull and door stop.
- .5 Door Pulls: Chrome plated Zamak.

2.3 COMPONENTS

- .1 Doors and Dividing Panels: 1" thick, high density polyethylene (HDPE) resin with all edges rounded to a radius. Doors and Dividing Panels to be 1397mm (55 inches) high, mounted 356mm (14 inches) above finished floor.
- .2 Doors and Dividing Panels: floor mounted, height to underside of roof as shown on drawings. Secure at top and bottom.
- .3 Pilasters: floor to ceiling height, fastened to a stainless steel angle and sleeve with 3/4" stainless steel tamper resistant torx head screw. Max. height of pilaster not to exceed 120".
- .4 Pilaster Sleeves: 102mm (4 inches) high, 20 gauge stainless steel, secured to pilaster with stainless steel tamper resistant Torx head sex bolt.
- .5 Wall Brackets: 1372mm (54 inches) long, heavy-duty aluminum, bright dip anodized finish, fastened to pilasters and panels with stainless steel tamper resistant Torx head sex bolts.

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 EXAMINATION

- .1 The contractor must examine all Site conditions that would prevent the proper application and installation of Toilet Partitions. Any defect must be immediately identified and corrected, prior to the installation of the Toilet Partitions.
- .2 Pre-Installation Meetings: convene pre-installation meeting one week prior to beginning work of this Section and on-Site installation, with contractor's representative to:
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordination with other building subtrades.
 - .4 Review manufacturer's installation instructions and warranty requirements.

3.3 INSTALLATION

- .1 Ensure supplementary anchorage, if required, is in place.
- .2 Do work in accordance with CSAB651.
- .3 Install compartments in accordance with manufacturer's instructions and approved Shop Drawings.
- .4 Install rigid, straight, plumb, and level.
- .5 Locate bottom edge of doors and panels 356mm (14 inches) above finished floor.
- .6 Provide uniform, maximum 9.5mm (3/8 inch) vertical clearance at doors.
- .7 Not Acceptable: Evidence of cutting, drilling, or patching.
- .8 Screen erection:
 - .1 Provide urinal stall screens consisting of wall and floor braced panels, as specified for toilet compartments and as indicated on the drawings.
 - .2 Anchor screen panels to walls with 3 panel brackets and vertical upright consisting of tubular headrail stock and end sockets, pilaster complete with floor shoes anchored to floor.
 - .3 Provide floor mounted support at end of oversized urinal stall screen where indicated on drawings.
- .9 Adjusting: adjust doors and latches to operate correctly.

3.4 FIELD QUALITY CONTROL

- .1 Inspection:
 - .1 After installation has been completed, provide for a Site inspection of all Toilet Partitions to determine that all items have been supplied and installed as per the enclosed details. Also, check the operation and adjustment of all Toilet Partitions. Any discrepancies, or malfunctioning product, must be reported to the Departmental Representative immediately.

3.5 CLEANING

- .1 Toilet Partitions shall be left clean and free from disfigurement. Make all final adjustments. Where Toilet Partitions are found defective, repair or replace or otherwise correct as directed.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Toilet and washroom accessories.
- .2 Grab bars.
- .3 Attachment hardware.

1.2 RELATED SECTIONS

- .1 Section 04 05 00 – Common Work Results for Masonry
- .2 Section 06 20 00 – Finish Carpentry
- .3 Section 07 92 00 – Joint Sealants.
- .4 Section 09 30 13 - Ceramic Tiling.
- .5 Section 09 91 99 – Painting. For Minor Works.
- .6 Electrical Divisions and Drawings.

1.3 REFERENCES

- .1 ASTM A123/A123M-08 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- .2 ASTM A167-99(2004) - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- .3 ASTM A269-08 - Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
- .4 ASTM B456-03 - Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- .5 CAN/CSA-B651-04 - Accessible Design for the Built Environment.

1.4 ADMINISTRATIVE REQUIREMENTS

- .1 Section 01 31 00: Project management and coordination procedures.
- .2 Coordination:
 - .1 Coordinate with other work having a direct bearing on work of this section.
 - .2 Coordinate the work with the placement of internal wall reinforcement to receive anchor attachments.

1.5 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide data on accessories describing base material, finish, size, finish, details of function, hardware and locks, attachment methods, description of rough-in-frame, and building-in details of anchor for grab bars.

1.6 CLOSEOUT SUBMITTALS

- .1 Section 01 78 00: Closeout Submittals.

1.7 REGULATORY REQUIREMENTS

- .1 Conform to applicable code and CAN/CSA-B651 for accessibility requirements for the handicapped.

Part 2 Products

2.1 MANUFACTURERS

- .1 Bobrick.
- .2 Substitutions: Refer to Bid Opportunity.

2.2 MATERIALS

- .1 Sheet Steel: ASTM A1008/A1008M.
- .2 Stainless Steel Sheet: ASTM A167, Type 304.
- .3 Tubing: ASTM A269, stainless steel.
- .4 Adhesive: Two component epoxy type, waterproof.
- .5 Fasteners, Screws, and Bolts: Hot dip galvanized.
- .6 Expansion Shields: Fibre, lead, or rubber as recommended by accessory manufacturer for component and substrate.
- .7 Primer: Refer to Section 09 91 99.

2.3 FABRICATION

- .1 Weld and grind joints of fabricated components, smooth.
- .2 Form exposed surfaces from single sheet of stock, free of joints. Form surfaces flat without distortion. Maintain surfaces without scratches or dents.
- .3 Shop assemble components and package complete with anchors and fittings.

- .4 Provide steel anchor plates, adapters, and anchor components for installation.

2.4 KEYING

- .1 Supply two (2) keys for each accessory to City of Winnipeg.
- .2 Master key all accessories.

2.5 FINISHES

- .1 Shop Primed Ferrous Metals: Pre-treat and clean, spray apply one coat primer and bake.
- .2 Stainless Steel: No. 4 satin luster finish.
- .3 Back paint components where contact is made with building finishes to prevent electrolysis.

Part 3 Execution

3.1 EXAMINATION

- .1 Section 01 71 00: Verify existing conditions before starting work.
- .2 Verify that field measurements are as indicated.
- .3 Verify that site conditions are ready to receive work and dimensions are as indicated on shop drawings.
- .4 Verify exact location of accessories for installation and that blocking has been provided.

3.2 PREPARATION

- .1 Deliver inserts and rough-in frames to site for timely installation.
- .2 Provide templates and rough-in measurements as required.

3.3 INSTALLATION

- .1 Install accessories to manufacturer instructions and CAN/CSA-B651.
- .2 Install plumb and level, securely and rigidly anchored to substrate.

3.4 WASHROOM ACCESSORY MOUNTING HEIGHTS

- .1 Install washroom accessories as per the following dimensions unless indicated otherwise on Drawings. Confirm all locations with Departmental Representative prior to installation:

<u>Toilet Paper Holder (TP)</u>	<u>750mm (30") (centre)</u>
<u>Grab Bars (GB)</u>	<u>Refer to drawing details.</u>
<u>Wall Mounted Waste Receptacle</u>	<u>Refer to drawing details)</u>
<u>Sanitary Napkin Disposal (SND)</u>	<u>650mm (26") (bottom)</u>

<u>Soap Dispenser (SD)</u>	<u>1000mm (39")</u>
<u>Robe Hook (RH)</u>	<u>1100mm (66")</u>
<u>Utility Shelf</u>	<u>900mm (36")</u>
<u>Hand Dryers</u>	<u>1170mm (46") (control)</u>
<u>Mirror</u>	<u>915mm (36") (bottom)(U.N.O.)</u>
<u>Janitor Shelf</u>	<u>1525mm (60")</u>
<u>Janitor Mop Holder</u>	<u>1525mm (60")</u>

3.5 WASHROOM ACCESSORIES

Toilet Paper Holder (TP):	Contura Series, Bobrick B-4288
Sanitary Napkin Disposal (SND):	Bobrick B-254
Baby Change Station	Koala Bear Care Model KB110-SSWM
Liquid Soap Dispenser (LSD):	Contura Series, Bobrick B-818615
Grab Bars (GB): 32mm (1 1/4"), stainless steel, satin, peened, c/w cover flange.	Frost 1001 and 1003 Series
Shower Grab Bar (SGB): 32mm (1 1/4"), 90 degree, stainless steel, satin, peened, c/w cover flange.	Frost #1003 920mm x 760mm
Hand/Hair Dryers (HD):	Refer to Electrical Dwgs.
Janitor Rack / Mop and Broom Holder (JMH):	Frost 1115
Stainless Steel Mirror (SSM):	Custom Size to Suit Supplied by Section 05 55 00
Toilet Backrest:	Frost 1028

END OF SECTION