

**Part 1            General**

**1.1                REFERENCES**

- .1      National Building Code of Canada (NBC).
- .2      Manitoba Building Code (MBC).
- .3      Canadian General Standards Board (CGSB).
  - .1      CAN/CGSB-12.5-M86, Mirrors, Silvered.
- .4      American Standard for Testing Material (ASTM).
  - .1      Fire retardant per ASTM D635.

**1.2                SHOP DRAWINGS**

- .1      Submit shop drawings in accordance with E3 – Shop Drawings.
- .2      Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, etc.

**1.3                CLOSEOUT SUBMITTALS**

- .1      Provide maintenance data for all materials and products within this section for incorporation into manual specified in Section E5 – Additional Submittals.

**1.4                WASTE MANAGEMENT AND DISPOSAL**

- .1      Separate and recycle waste materials in accordance with D13 – Environmental Protection Plan.
- .2      Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Reduction Workplan.

**1.5                EXTRA MATERIALS**

- .1      Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with E5– Additional Submittals.
- .2      Deliver special tools to the City’s representative.

**Part 2            Products**

**2.1                MATERIALS**

- .1      Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.
- .2      Stainless steel sheet metal: to ASTM A167, Type 304, with bright polished finish.

- .3 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.

## 2.2 WASHROOM COMPONENTS

- .1 Minimum standard is based on the following products as supplied by Frost Products Limited of Burlington, Ontario. Similar products by Bobrick, Bradley, Watrous of same materials, metal gauge and finishes are considered equal.
- .2 Toilet tissue dispenser: double roll type, surface mounted, chrome plated steel frame, capacity of two x 500 double ply roll.
  - .1 Acceptable material: Frost model 150 or
  - .2 Or Approved equal in accordance with Bidding Procedures B7 - Substitutes.
- .3 Napkin disposal: All welded construction 22ga. stainless steel type 304, No. 4 brushed finish, pivoting self-closing lid, embossed label on lid, mounted on back wall of toilet stall in Women's washroom
  - .1 Acceptable material: Frost model 622, or
  - .2 Or Approved equal in accordance with Bidding Procedures B7 - Substitutes.
- .4 Clothes hooks: stainless steel, 16ga, single hook designed to collapse under load exceeding 11 kg, located one within each toilet room, and two at each shower area:
  - .3 Acceptable materials: Frost model 1150 or
  - .4 Or Approved equal in accordance with Bidding Procedures B7 - Substitutes.
- .4 Mirrors: One piece 24 ga stainless steel channel frame assembly, concealed mounting, 4mm glass with shock resistant primary back. Full galvanized back panel. Overall size 450 mm wide x 900 mm high. One over each lavatory and one in shower room area.
  - .1 Acceptable material: Frost model 9416-1836, or
  - .2 Or Approved equal in accordance with Section B7 - Substitutes..
- .5 Liquid soap dispensers: Large 1 litre capacity with all-purpose push type valve, ABS finish, lockable cover, removable inner soap reservoir. One at each lavatory and sink.
  - .1 Acceptable material: Frost model 707-1L, or
  - .2 Or Approved equal in accordance with Section B7 - Substitutes..
- .6 Waste receptacle: Wall mounted, rounded corners, 50 litre capacity, tight sealing head and spring loaded door, galvanized removable liner and 26" x 36" bag holding apparatus, white epoxy finish with galvanized liner.
  - .1 Acceptable material: Frost model 303, or
  - .2 Approved equal in accordance with Bidding Procedures B7 - Substitutes.
- .7 Washroom signage: Durable engraved signage, self-adhesive backing, plastic face, uni-sex symbol. One at washroom door.
  - .1 Acceptable material: Frost model 960and 961, or

- .2 Or Approved equal in accordance with Bidding Procedures B7 - Substitutes.
- .8 Grab bars: 29 mm round profile, brushed stainless steel with knurled or peened non slip finish, concealed stainless steel mounting hardware. Refer to drawings for general arrangement and locations.
  - .1 Acceptable material: Frost 1001 - SP series or
  - .2 Approved equal in accordance with Bidding Procedures B7 - Substitutes.
- .9 Fold up seat: Impervious phenolic white slatted seat on folding stainless steel frame mechanism to securely hold seat in folded or unfolded position by means of single handed operation.
  - .1 Acceptable material: Frost model 975
  - .2 Approved equal in accordance with Bidding Procedures B7 - Substitutes.

### **2.3 FABRICATION**

- .1 Weld and grind joints of fabricated components flush and smooth. Use mechanical fasteners only where approved.
- .2 Wherever possible form exposed surfaces from one sheet of stock, free of joints.
- .3 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- .4 Back paint components where contact is made with building finishes to prevent electrolysis.
- .5 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CSA G164.
- .6 Shop assemble components and package complete with anchors and fittings.
- .7 Deliver inserts and rough-in frames to job site at appropriate time for building-in. Provide templates, details and instructions for building in anchors and inserts.
- .8 Provide steel anchor plates and components for installation on studding and building framing.

### **2.4 FINISHES**

- .1 Chrome and nickel plating: to ASTM B456, polished finish.
- .2 Baked enamel: condition metal by applying one coat of metal conditioner to CGSB 31-GP-107Ma, apply one coat Type 2 primer to CAN/CGSB-1.81 and bake, apply two coats Type 2 enamel to CAN/CGSB-1.88 and bake to hard, durable finish. Sand between final coats.

**Part 3 Execution**

**3.1 INSTALLATION**

- .1 Install and secure accessories rigidly in place as follows:
  - .1 Stud walls: install steel back-plate to stud prior to plaster or drywall finish. Provide plate with threaded studs or plugs.
  - .2 Hollow masonry units or existing plaster/drywall: use toggle bolts drilled into cell/wall cavity.
  - .3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
- .2 Use tamper proof screws/bolts for fasteners.
- .3 Fill units with necessary supplies shortly before final acceptance of building.

**3.2 SCHEDULE**

- .1 Locate accessories as indicated on drawings and generally as follows:
- .2 Toilet tissue dispenser: one in washroom.
- .3 Feminine Napkin Disposal: one in washroom mounted on back wall to one side of toilet at 1000 mm above floor.
- .4 Robe hook: one in washroom on back of door, mounting height 1200 mm F.F.F., and two in shower room.
- .5 Hand towel dispenser: one adjacent to washroom lavatory.
- .6 Soap dispenser: one per lavatory.
- .7 Mirror: one above lavatory sink.
- .8 Waste receptacle: one in washroom.

**END OF SECTION**