

PART 1 GENERAL

- 1.1 Related Section
 - .1 Submittal Procedures Section 01 33 00
 - .2 Glazing: Mirrors Section 08 80 50
- 1.2 References
 - .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A167-99, Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM B456-95, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
 - .3 ASTM A653/A653M-99, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.
 - .4 ASTM A924/A924M-99, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
 - .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 CAN/CGSB-12.5-M86, Mirrors, Silvered.
 - .4 CGSB 31-GP-107Ma-90, Non-Inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
 - .3 Canadian Standards Association (CSA)
 - .1 CAN/CSA-B651-95, Barrier-Free Design.
 - .2 CAN/CSA-G164-M92, Hot Dip Galvanizing of Irregularly Shaped Articles.
- 1.3 Shop Drawings
 - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, building-in details of anchors for grab bars.
- 1.4 Closeout Submittals
 - .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.
- 1.5 Extra Materials
 - .1 Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with requirements specified in Closeout Submittals.
 - .2 Deliver special tools to Contract Administrator.

PART 2 PRODUCTS

2.1 Materials

- .1 Sheet steel: to ASTM A652/A653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A167, Type 302 or 304.
- .3 Stainless steel tubing: Type 302 or 304, commercial grade, seamless welded, 1.2 mm wall thickness minimum.
- .4 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 Accessories

- .1 Bobrick Washroom Accessories:
 - .1 Components (refer to interior elevations for quantities)
 - .2 Grab bars: Grab bar material and anchorage to withstand downward pull of 2.2 kN.
 - .3 Acceptable material: (in stalls), Bobrick B550 x 36 and Bobrick B 550 x 24.
- .2 Public Washroom -112
 - .1 Mirror and shelf: B-165 2436.
 - .2 Toilet tissue dispenser: B-2730
 - .3 Towel bar: 24" - B-7673
 - .4 Coat Hook: 1 – B682
- .3 Shower Room -115/116A and Men's Washroom -116
 - .1 Mirror and shelf: B-166 2436.
 - .2 Toilet tissue dispenser: B-2730
 - .3 Towel bar: 24" - B-7673
 - .4 Shower curtain and hooks, B204-2, 204-1
 - .5 2 x Hook Strips: B-232 x 24
- .4 Washroom -126 – Women's
 - .1 Mirror and shelf: B-166 2436.
 - .2 Toilet tissue dispenser: B-2730
 - .3 Towel bar: 24" - B-7673
 - .4 Shower curtain and hooks, B204-2, 204-1
 - .5 Feminine napkin disposal bin: Bobrick B270.
 - .6 Hook: 2 - B-682
- .5 Corridor -124
 - .1 2 x hook strip for hats and coats: B-232 x 36

- .6 Janitor's Room - 114
 - .1 Janitor's Room –Bobrick B-223 x 36 mop and broom holder 600 mm long.
- .7 Women's Washroom B05 / Men's Washroom B06
 - .1 Towel bar: 24" – B-7673
 - .2 Mirror and shelf: B-166 2436
 - .3 Shower Curtain and hooks, B204-2, 204-1
 - .4 Hook: B-232 x 36
 - .5 Toilet Tissue Dispenser: B-2730
- 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 Brake form sheet metal Work with 1.5 mm radius bends.
 - .4 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
 - .5 Back paint components where contact is made with building finishes to prevent electrolysis.
 - .6 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CSA G 164.
 - .7 Shop assemble components and package complete with anchors and fittings.
 - .8 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. Provide steel anchor plates and components for installation on studding and building frame.
- 2.4 Finishes
 - .1 Chrome and nickel plating: to ASTM B456, satin 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. Colour selected from standard range by Contract Administrator.
- PART 3 EXECUTION**
- 3.1 Install and secure accessories rigidly in place as follows:
 - .1 Stud walls:
 - .1 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:
 - .1 Use toggle bolts drilled into cell/wall cavity.
 - .3 Solid masonry concrete:
 - .1 Use bolt with lead expansion sleeve set into drilled hole.

- .4 Toilet/shower compartments:
 - .1 Use male/female through bolts.
 - .5 Install grab bars on built-in anchors provided by bar manufacturer.
 - .6 Fill units with necessary supplies shortly before acceptance of building.
 - .7 Install mirrors in accordance with Section 08800- Glazing.
- 3.2 Schedule
- .1 Locate accessories where indicated on drawings and details.
 - .2 Grab bar: two in each handicapped toilet compartment. Height of grab bar from floor as indicated on drawings and details. Side grab bar: maximum distance from rear wall 300 mm, minimum distance past front edge of toilet 450 mm.

PART 1 GENERAL

1.1 Section Includes

- .1 Locker units with hinged doors.
- .2 Metal bases, tops and filler panels.
- .3 Turnout Gear lockers.

1.2 Related Sections

- .1 Wood Framing Section 06 11 00

1.3 References

- .1 ASTM A653/A653M- Specification for Steel Sheet, Zinc-Coated (galvanized) or Zinc-Iron-Alloy-Coated (galvannealed) by the Hot-Dip Process.

1.4 Submittals

- .1 Product Data: Provide data on locker types, sizes and accessories.
- .2 Shop drawings: Indicate locker plan layout, numbering plan.
- .3 Samples: Submit two samples 75 x 150 mm in size, of each colour selected; applied to specified base metal
- .4 **Gearmasters- air flow lockers – specialty lockers – standard grey.**

1.5 Delivery, Storage, and Protection

- .1 Protect locker finish and adjacent surfaces from damage.

PART 2 PRODUCTS

2.1 Manufacturers- Lockers

- .1 General Storage Systems.
- .2 Shanahans.
- .3 Hadrian.
- .4 ASI.

2.2 Materials

- .1 Sheet Steel: Mild, cold rolled and levelled unfinished steel; to the following minimum thicknesses:
 - .1 Body and Shelf: 0.6 mm.
 - .2 Door Outer Face: 0.91 mm.
 - .3 Door Inner Face: 0.6 mm.
 - .4 Door Frame: 1.5 mm.
 - .5 Hinges: 1.9 mm.
 - .6 Base: 0.9 mm.
 - .7 Sloping Top: 0.6 mm.
 - .8 Trim: 0.6 mm.

2.3 Accessories

- .1 For each locker: two double-prong wall hooks, hat shelf, and rubber bumper.
- .2 Locker benches: stationary type; bench top of laminated edge grain maple species wood, stained, sealed and varnished; pedestals of steel, 254 mm high; length to be 1200 mm, colour of pedestals to match lockers.

2.4 Fabrication

.1 Locker Units:

- .1 Width: 381 (15").
- .2 Depth: 457 (18").
- .3 Height: 1830 mm.
- .4 Configuration: single tier.
- .5 Mounting: surface mounted and free standing.
- .6 Base: metal base.
- .7 Base height: 100 mm.
- .8 Top: sloped metal with closures.
- .9 Locking: equipped for padlock hasps.
- .2 Locker body: formed and flanged; with steel stiffener ribs; bolted or pop-riveted.
- .3 Frames: formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
- .4 Doors: hollow sandwich construction, 30 mm thick; welded construction, channel reinforced top and bottom with intermediate stiffener ribs, acoustic insulation fill, grind and finish edges smooth.
- .5 Hinges: three for doors over 1050 mm high; weld securely to locker body and rivet to unit door.
- .6 Locking device supplied by City of Winnipeg.
- .7 Number plates: provide rectangular shaped aluminum number plates.
- .8 Provide ventilation openings at top and bottom of each locker.
- .9 Form recess for operating handle and locking device.
- .10 Finish edges smooth without burrs.
- .11 Fabricate sloped metal tops, ends and closure pieces.
- .12 Fabricate 100 mm high steel bases with end closures.
- .13 **Gearmasters- Air Flow Lockers: standard construction with base enclosure panels-lockable.**

2.5 Finishes

- .1 Clean, degrease, and neutralize metal, prime and finish with two coats of baked enamel.
- .2 Paint locker bodies and doors in contrasting colours.
- .3 Colour(s): colours as selected from manufacturer's standard range.

PART 3 EXECUTION

- 3.1 Examination
 - .1 Verify that prepared bases are in correct position and configuration.
 - .2 Verify bases and embedded anchors are properly sized.
- 3.2 Installation
 - .1 Install in accordance with manufacturer's instructions.
 - .2 Install lockers plumb and square.
 - .3 Place and secure on prepared base.
 - .4 Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 445 N.
 - .5 Bolt adjoining locker units together to provide rigid installation.
 - .6 Install end panels, filler panels, sloped tops and bases.
 - .7 Install accessories.
 - .8 Replace components that do not operate smoothly.
 - .9 Attach benches firmly to floor to locations indicated.
- 3.3 Cleaning
 - .1 Clean locker interior and exterior surfaces.

PART 1 GENERAL

- 1.1 Related Work
 - .1 Wood Framing - Section 06 11 00 - Blocking and backing for attachment of items specified in this section.
- 1.2 REGULATORY REQUIREMENTS
 - .1 All items supplied are to be CSA approved.
- 1.3 Submittals
 - .1 Submit shop drawings and product data to requirements of Section 01 33 00- Submittal Procedures.
 - .2 Submit operation and maintenance data to requirements of Section 01 33 00- Submittal Procedures.

PART 2 PRODUCTS

- 2.1 Splashpads
 - .1 Precast concrete, 1220 x 280 x 76 mm at each downspout and sump discharge, c/w anchor pin as manufactured by Barkman or approved equal.
- 2.2 Acoustic Panels
 - .1 Manufactured by Tectum Inc.- Prefinished white 25 mm thick – bevelled edge.
- 2.3 Interior Signage
 - .1 Washroom Signage in public & barrier free washroom only. Pictograph shall be raised with Grade 2 Braille in the lower right corner. Signage colour to be MB-17 Aluminum Satin image with background colour in Metalbrite finishes. Characters shall be 25 mm in height, in Sans Serif. Mounting with screws. Plaque format to be 7.7.0 by Insign, Preside Sign Systems, or approved equal.
- 2.4 Exterior Signage
 - .1 Sign:
 - .1 Material: Cut aluminum, 13 mm thick, height to be 150 mm. City logo – see Drawing for size.
 - .2 Mounting: Projected stud mount #1, 13 mm projection, c/w construction adhesive at mounting screws.
 - .3 Style: Colour lettering with automotive type enamel from full palette. Allow one colour. Lettering to be Helvetica Bold upper case.
 - .4 Description: to read “City Logo – Fire Paramedic Station 21 – 1446 Regent Ave. W.”
 - .2 Flag Pole:
 - .1 Ewing Flag Pole, Model # HNA35NZ.
 - .2 Exposed height of 35 feet.
 - .3 Standard mechanical finish
 - .4 Satin directional texture finish.

- .5 Pole shall be equipped with ball, Halyard pulley system, cleat, and cover box. Mounted at 2000 mm from finished grade, nylon rope and base cover.
- .3 Vinyl Covered Tack Board
 - .1 Vinyl fabric tackable surface.
 - .2 ½" thick substrate with aluminum frame.

PART 3 EXECUTION

- 3.1 Inspection
 - .1 Verify that surfaces and internal wall blocking are ready to receive Work and opening dimensions are as instructed by the manufacturer.
 - .2 Beginning of installation means acceptance of substrate conditions.
- 3.2 Installation
 - .1 Install in accordance with manufacturer's instructions.
 - .2 Acoustic panels to be installed with adhesive and mechanically fastened.