PART 1 - GENERAL

1.1 Action and Informational Submittals

.1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data:
- .1 Submit manufacturer's instructions, printed product literature and data sheets for accordion folding partitions and include product characteristics, physical size, finish and limitations.

.3 Shop Drawings:
- .1 Indicate head and jamb details, opening sizes, anchorage clearances, hardware, finish pattern and colour.

.4 Samples:
- .1 Submit duplicate 200 mm long samples of wood veneer.

1.2 Closeout Submittals

.1 Submit in accordance with Section 01 78 00 - Closeout Submittals.

.2 Operation and Maintenance Data: submit operation and maintenance data for accordion folding partitions for incorporation into manual.

1.3 Delivery, Storage and Handling

.1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.3 Storage and Handling Requirements:
- .1 Store materials off ground in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
- .2 Store and protect from nicks, scratches, and blemishes.
- .3 Replace defective or damaged materials with new.

PART 2 - PRODUCTS

2.1 Panels

.1 Panel core: 6 mm thick medium density fiberboard with rabbeted edge for panel connector.

.2 Panel facings: Wood veneer.

.3 Panel connectors: Continuous non-rigid vinyl, inserted and glued into panel rabbet.

.4 Lead post: Extruded aluminum, 19 mm x 69 mm cross-section.

2.2 Components

.1 Suspension system:
- .1 Track: 30 mm x 25 mm aluminum, pre-punched for screw fasteners for surface mounting.
- .2 Roller assembly: Nylon wheels on ball-bearing steel axles; riveted to hinge, dual trolley at lead post, single trolley at alternate panels, type for specified track.

.2 Hardware:
- .1 Hinge assembly:1.2 mm thick steel, continuous pin, riveted to top and bottom of door panel, with automatic stop at full extension.
- .2 Handle: Rigid molded polyvinyl chloride.
- .3 Latching: Pull with keylock both sides, with deadlatch.

2.3 Finishes:

.1 Panels: hardwood veneer, of species selected by Departmental Representative from manufacturer's standard range, with sealer and clear lacquer topcoats.

.2 Aluminum: Manufacturer’s standard finish, in colour complementing panel finish.

PART 3 - EXECUTION

3.1 Examination

.1 Visually inspect substrate and report unacceptable conditions to Departmental Representative.

.2 Proceed with installation only after unacceptable conditions have been remedied.

3.2 Installation

.1 Level tracks and fasten securely to header.

.2 Install partition in accordance with manufacturer's printed instructions.

.3 Touch up damaged finishes, repair damage to partitions to match original finish.

.4 Clean folding partition system and protect from damage.

.5 Adjust and leave partitions in smooth operating conditions.

End of Section

PART 1 - GENERAL

1.1 References

.1 ASTM International (ASTM).
- .1 ASTM A240/A240M-13c, Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- .2 ASTM A653/A653M-13, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

.2 Canadian Standards Association (CSA)
- .1 ASTM A123/A123M-13, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

1.2 Action and Informational Submittals

.1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data:
- .1 Manufacturer's literature indicating size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame.
- .2 Provide supplementary information, as necessary, to cover items not indicated on manufacturer's literature.

.3 Shop drawing:
- .1 Submit detail for anchoring grab bars.
- .2 Indicate grab bar fastener sizes and materials.
- .3 Show section through wall, indicating:
  - .1 Wall components,
  - .2 Special/extra fastening,and reinforcing requirements for wall components as necessary for wall assembly to withstand specified forces.

.4 Shop drawing shall be stamped by professional structural engineer registered or licensed to practice in the Province of Nova Scotia, verifying anchor system will withstand specified forces.

.4 Samples:
.1 Samples to be returned for inclusion into work.
.2 Submit one sample of each washroom accessory.

1.3 Extra Materials

.1 Provide keys and special tools required for accessing, assembly/disassembly or removal for washroom accessories.

PART 2 - PRODUCTS

2.1 Materials

.1 Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.

.2 Stainless steel sheet metal: to .1 ASTM A240/A240M, Type 304, with No.4 finish.

.3 Stainless steel tubing: Type 304, commercial grade, seamless welded, 1.2 mm wall thickness.

.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 Components

.1 Model numbers listed herein may not contain all prefix, suffix or other variations/designations that may be required to conform to product description. Indicate full model number on shop drawings including required prefixes, suffixes and model number variations/designations to accommodate description of product.

.2 Coat hook (CH): single hook, maximum 40 mm projection, fabricated from 2.8 mm thick stainless steel.

.3 Feminine napkin disposal bin (ND):
.1 Top load: container and cover fabricated from 0.8 mm stainless steel; equip cover with full-length stainless-steel piano hinge; container shall have radiused corners.

.4 Folding shower seat (FSS):
.1 Rectangular shape, solid laminate seat, fold-up; stainless steel tubular frame, guide bracket and stainless-steel fasteners.
.1 Size: 432 mm to 457 mm wide x 371 mm deep and projects 35 mm from wall.
.2 Seat material: solid laminate; 13 mm thick; 8 mm thick when fully supported around perimeter.

.5 Grab bars (GRB): 38 mm o.d. x 1.2 mm wall tubing of stainless steel, length indicated, 75 mm diameter wall flanges welded to tubular bar, concealed screw attachment using snap flange cover, provided with steel back plates and all accessories. Peened finish. Grab bar material and anchorage to withstand a force of 1.3 kN applied in any direction.
.1 Straight bar (GRB-1 & GRB-2):
.2 L-shaped bar (GRB-3):
.3 Grab bar anchoring devices:
.1 Use stainless steel fasteners for fastening grab bars.
.2 No exposed anchoring plates permitted.
.3 Final grab bar anchoring as determined by grab bar anchoring system engineer and contractor, and acceptable to Departmental Representative.

.4 Potential anchoring systems acceptable to Departmental Representative.
.1 Stud partition: concealed steel plate of thickness determined by grab bar anchoring system engineer; of size as follows:
.1 Horizontal/vertical bars: minimum 100 mm high; length to suit grab bar and attach to a minimum of three (3) studs.
.4 Any substrates: Manufacturer's proprietary anchoring devices designed specifically for grab bar installation on applicable substrate.

.6 Mirrors (MIR): fixed channel frame.
.1 Frame: stainless steel channel frame, 13 mm x 13 mm x 9.5 mm; bright polished finish. One piece frame with 90° degree mitred corners.
.2 Mirror:
.1 No. 1 quality, 6 mm thick, guaranteed for 10 years against silver spoilage. Provide shock absorbing material.
.2 Galvanized steel back with integral hanging brackets.
.3 Hanging: concealed wall hanger and bracket assembly.
.3 Sizes: refer to drawing for mirror sizes.

.7 Mop holder (MH):
.1 Three mop holders wall mounted on face of 610 mm x 125 mm x 110 mm frame. Fabricated from stainless steel; spring-loaded rubber cam holders with anti-slip coating accommodate handles from 20 to 30 mm diameter. Designed to keep mops away from wall.

.8 Paper towel dispenser (PTD): no-touch operation.
  .1 Dispenser:
    .1 Cabinet: 18-8 S, type-304, heavy-gauge stainless steel. All-welded construction. Exposed surfaces have satin finish. Equipped with a tumbler lock.
    .2 Door: fabricated from 0.91 mm thick, 18-8 S, Type-304 stainless steel with satin finish. Drawn, one-piece, seamless construction. Secured to cabinet with a full length stainless steel piano-hinge.
    .3 Automatic Roll Towel Dispenser: high-impact resin materials. Accepts universal standard-core, non-perforated rolls 200 mm wide x 200 mm diameter. Dispenses one towel per dispense and can be set to dispense paper towels at three different lengths.
    .4 Power requirements: 4 x D-cell batteries, complete with low battery indicator light.

.9 Shower curtain and rod (SC):
  .1 Shower rods: 25 mm diameter x 0.91 mm wall thickness satin stainless steel tubing of required length with satin stainless-steel flanges, exposed fasteners. Shower rod material and anchorage to withstand downward pull of 0.9 kN.
  .2 Curtain: 0.2 mm thick opaque vinyl shower curtain, hemmed edges, plated brass grommets, complete with stainless steel hooks. Extend shower curtains to within 100 mm from floor.

.10 Soap dispenser (SD): surface mounted, constructed from high-impact ABS construction, translucent body, push-in valve operable using one hand with not more than 22 N force; 1.2 L capacity, locking lid, tape mounting to mirror.

.11 Toilet tissue dispenser (TTD): Single roll type, surface mounted, chrome plated steel frame, capacity of 500 double ply roll, roll under spring tension for controlled delivery.

.12 Free-Standing Waste Receptacle (WR): Floor mounted, swing top

.1 Waste receptacle: open top, minimum 49 litre capacity, fabricated from 0.8 mm stainless steel; equipped with vinyl bumper strip at top and four rubber feet.

.1 Size: maximum 340 mm L and W; 775 mm H.

.2 Cover: 0.8mm thick stainless steel with satin finish. Spring-loaded, self-closing doors, secured with full-length, stainless steel piano-hinges.

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 ASTM A123/A123M.

.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.

.9 Provide steel anchor plates and components for installation on studding and building framing.

PART 3 - EXECUTION

3.1 Installation

.1 Install and secure accessories rigidly in place.

.2 Install grab bars using same materials and methods as those used for mock-ups.

.3 Use tamper proof screws/bolts for fasteners.

.4 Fill units with necessary supplies shortly before final acceptance of building.

3.2 Field Testing of Grab Bars

.1 Include site testing of grab bars to verify compliance with mock-up.

.2 Test grab bars using same method as that used for mock-up.

.3 Work which does not comply with the mock-up will be rejected, taken down and installed to compliance with mock-up, at no increase in contract price.

.4 Departmental Representative's decision as to compliance with the mock-up will be final.

3.3 Schedule

.1 Refer to drawings for quantities and locations.

END OF SECTION

PART 1 - GENERAL

1.1 General Conditions

.1 The General Conditions outlined in Section 21 05 01 apply to work performed under this section.

1.2 References

.1 National Fire Prevention Association (NFPA):
.1 NFPA 10, Portable Fire Extinguishers.

.2 National Building Code of Canada - 2015.

.3 CAN/ULC-S508, Rating and Fire Testing of Fire Extinguishers and Class "D" Extinguishing Media.

.4 Authority Having Jurisdiction:
Conform to the requirements of the Authority having Jurisdiction.

.5 Approvals:
.1 Obtain approval from the Authority Having Jurisdiction and from the Departmental Representative before beginning installation.
.2 Pay all costs associated with such approvals.

1.3 Related Sections

.1 Section 21 05 01 - Mechanical General Requirements.

.2 Section 23 05 54 - Mechanical Identification.

1.4 Shop Drawings, Product Data and Record Drawings

.1 Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures and in accordance with working plans and design requirements. One copy shall be forwarded to the Department Representative's Insurer for review and comment.

.2 Contractor to maintain record drawings on site showing significant deviation from the contract documents and shop drawings as required in Section 21 05 01.

1.5 Engineering Design Criteria

.1 System Designed in accordance with NFPA 10.

1.6 Closeout Submittals

.1 Provide maintenance data for system equipment for incorporation into maintenance manual specified in Section 01 78 00 – Closeout Submittals including MSDS for extinguishing agent.

.2 Provide updated, approved shop drawings for inclusion in the maintenance manuals.
.1 Drawings to indicate as-built/record" conditions.

1.7 Protection

.1 Provide fire safety protection in accordance with NBC requirements during construction.

PART 2 – PRODUCTS

2.1 Fire Extinguishers

.1 Fire extinguishers shall be supplied by this Contractor and installed by this Contractor.

.2 Stored pressure rechargeable type with hose and shut-off nozzle, ULC labelled for A, B, C class protection. Rating: 10 lb. typical (4-A, 60-B,C). Red paint finish, squeeze grip operation, pull pin safety lock, waterproof stainless-steel pressure gauge, anodized aluminum valve.

2.2 Identification

.1 Identify extinguishers in accordance with recommendations of ANSI/NFPA 10 and CAN/ULC-S508.

.2 Attach bilingual tag or label to extinguishers, indicating month and year of installation. Provide space for service dates.

PART 3 - EXECUTION

3.1 Installation

.1 All installation work to be in accordance with the rules and regulations of the Authority Having Jurisdiction and the Department Representative's.

.2 Install fire extinguishers so top is within 1500mm above the finished floor. Mount fire extinguishers on wall brackets where indicated on the drawings.

END OF SECTION