

PART 1 - GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 09 21 16 - Gypsum Board Assemblies.
 - .2 Section 09 30 10 - Ceramic Tiling.
 - .3 Section 10 28 10 - Toilet and Bath 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/CGSB-71.20-M88, Adhesive, Contact, Brushable.
 - .3 Canadian Standards Association (CSA International)
 - .1 CSA-B651-12, Accessible Design for the Built Environment.
 - .4 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
 - .5 South Coast Air Quality Management District (SCAQMD), California State
 - .1 SCAQMD Rule 1168-05, Adhesives and Sealants Applications.
- 1.3 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.
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- 1.3 SUBMITTALS
(Cont'd)
- .3 Shop Drawings:
.1 Shop drawings: Indicate fabrication details, dimensions, plans, elevations, hardware, door swings, and installation and support details.
- .4 Samples:
.1 Submit duplicate 300 x 300mm (12" x 12") samples of panel showing finish on both sides, two finished edges and core construction.
.2 Submit duplicate representative samples of each hardware item, including brackets, fastenings and trim.
- .5 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence and cleaning procedures.
- 1.4 CLOSEOUT SUBMITTALS
- .1 Provide maintenance data for plastic laminate for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.
- 1.5 DELIVERY, STORAGE AND HANDLING
- .1 Deliver, store and handle materials.
- .2 Protect finished laminated plastic surfaces during shipment and installation. Do not remove until immediately prior to final inspection.
- 1.6 WASTE MANAGEMENT AND DISPOSAL
- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- 1.7 WARRANTY
- .1 Provide written warranty, signed and issued in the name of the Owner, for phenolic material against delamination, breakage or corrosion for 10 years from date of Substantial Performance, assuming proper maintenance according to manufacturer's recommendations.
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PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Solid phenolic, floor mounted, overhead braced, toilet partitions and urinal screens.
 - .1 Acceptable material:
 - .1 ASI/Watrous/Global.
 - .2 Decolam.
 - .3 Bobrick.
 - .4 Hadrian.
 - .5 Columbia Partitions.
 - .6 Metpar.
 - .2 Panels, doors, screens and pilasters: Decorative surface sheet with solid black phenolic core of melamine resin impregnated kraft paper fused under high temperature and pressure.
 - .3 Finish: Solid phenolic core (black) with solid grade high pressure decorative laminate face sheets fused at high temperature, both sides. Colour: from laminate manufacturer's full range.
 - .4 Edges: exposed black core, machine sanded.
 - .5 Headrails: clear anodized, extruded aluminum, anti grip design preformed socket brackets.
 - .6 Fastening Hardware: Manufacturer's standard, Type 304 stainless steel, No. 4 satin finish, theft resistant barrel nuts and machine screws.
 - .7 Pilaster shoe: Type 304 stainless steel, No. 4 satin finish. Minimum 127mm (5") high secured to floor with internal clips.
 - .8 Mounting Brackets: Stainless steel continuous bracket Type 304 stainless steel, No. 4 satin finish, with stainless steel theft resistant barrel nuts and machine screws of same material and finish.
 - .9 Pilaster Anchors: Floor Anchored: 6mm (¼") x 25mm (1") steel mounting bar secured to pilaster with 9.5mm (3/8") steel fasteners. Pilasters to be secured to floor with 9.5mm (3/8") studs and nuts. Levelling adjustment to

2.1 MATERIALS
(Cont'd)

- .9 Pilaster Anchors:(Cont'd)
be concealed by pilaster shoe after
installation.
- .10 Attachment: stainless steel tamper proof type
screws and bolts.

2.2 COMPONENTS

- .1 Hinges:
 - .1 Heavy duty, non-lubricating vault type,
nylon bushings.
 - .2 Material/finish: stainless steel
casting.
 - .3 Swing: inward or outward as indicated.
 - .4 Return movement: gravity.
 - .5 Adjustable to hold door open at any
angle up to 90 degrees.
 - .6 Emergency access feature.
- .2 Latch set: surface mounted combination latch,
door-stop, keeper and bumper, stainless steel,
emergency access feature.
- .3 Coat hook: combination hook and rubber door
bumper, stainless steel.
- .4 Door pull: Barrier-free type suited for
outswinging doors, stainless steel.

2.3 FABRICATION

- .1 Doors and pilasters: 19mm (3/4") thick, solid
phenolic, to sizes indicated.
 - .2 Panels: 13mm (1/2") thick, solid phenolic, to
sizes indicated.
 - .3 Privacy screen: 13mm (1/2") thick, solid
phenolic, to size indicated on drawings.
 - .4 Chamfer or radius exposed edges uniformly at
approximately 20-45 degrees.
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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 INSTALLATION .1 Ensure supplementary anchorage, if required, is in place.
- .2 Do work in accordance with CSA-B651.
- 3.3 ERECTION .1 Partition erection:
- .1 Install partitions secure, plumb and square.
- .2 Leave 1/2" space between wall and panel or end pilaster.
- .3 Anchor mounting brackets to masonry or concrete surfaces using screws and shields.
- .4 Anchor mounting brackets to stud walls using bolts and toggle type anchors to wood blocking provided by Section 09 21 16.
- .5 Attach panel and pilaster to brackets with through type sleeve bolt and nut.
- .6 Provide for adjustment of floor variations with screw jack through steel saddles made integral with pilaster. Conceal floor fixings with stainless steel shoes.
- .7 Equip each door with hinges, latch set, and each stall with coat hook mounted on door. Adjust and align hardware for proper function. Set door open position at 30 degrees to front. Install door bumper door mounted.
- .8 Equip outswinging doors with door pulls on inside and outside of door in accordance with CSA-B651.
- .9 Install hardware and grab bars.
- .2 Floor supported and overhead braced partition erection:
- .1 Attach pilasters to floor with pilaster supports and level, plumb, and tighten installation with levelling device.
- .2 Secure pilaster shoes in position.

- 3.3 ERECTION .2 (Cont'd)
- (Cont'd)
- .3 Secure headrail to pilaster face with not less than two fasteners per face.
- .4 Set tops of doors parallel with overhead brace when doors are in closed position.
- .3 Privacy Screen Erection:
- .1 Install panel screens secure, plumb and square.
- .2 Anchor mounting brackets to masonry or concrete surfaces using screws and shields: to hollow walls using bolts and toggle type anchors.
- .3 Provide minimum of four (4) brackets per panel screen.
- .4 Attach panel screens to brackets with through type sleeve bolt and nut.
- 3.4 CLEANING .1 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

PART1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 10 21 13 - Metal Toilet Compartments.
- 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 (Galvannealed) 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 and description of rough-in-frame, building-in details of anchors for grab bars.
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- 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 WASTE MANAGEMENT AND DISPOSAL .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- .2 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.
- 1.6 EXTRA MATERIALS .1 Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01 78 00 - Closeout Submittals.
- .2 Deliver special tools to Departmental Representative.

PART 2 - PRODUCTS

- 2.1 MATERIALS .1 Sheet steel: to ASTM A 653/A 653M-09a with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A 167-99(2009), Type304, with finish as specified.
- .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.
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2.2 COMPONENTS

- .1 All accessories shall be the products of the same manufacturer. See plans for quantities and locations.
- .2 T1 - Toilet tissue dispenser: jumbo double roll type, surface mounted, heavy duty aluminum molded high impact ABS spndles with controlled delivery.
 - .1 Acceptable material:
 - .1 Bobrick B-2892
 - .2 Bradley 5425
 - .3 American Specialties
- .3 T2 - Sanitary Napkin Disposal: 0.8mm (22 ga.) stainless steel, satin finish; full length piano hinge on sloping cover; surface mounted:
 - .1 Acceptable material:
 - .1 Bobrick B-270.
 - .2 Bradley 4722-15.
 - .3 American Specialties 20852.
- .4 T3- Grab Bar: 32mm diameter, stainless steel, peened grip; satin finish at ends of bar and flange; 75mm diameter concealed mounting plate, with flange secured by set screws; 38mm clear from wall finish to grab bar; straight bar, 610mm long:
 - .1 Acceptable material:
 - .1 Bobrick B-5806 x 24.
 - .2 Bradley 832-2 x 24.
 - .3 Watrous W3701-24P.
- .5 T4 - Grab Bar: 32mm: diameter, same as T6 but 915mm long.
 - .1 Acceptable material:
 - .1 Bobrick B-5806 x 36.
 - .2 Bradley 832-2 x 36.
 - .3 Watrous W3701-36P.
- .6 T5 - Wall Mounted Soap Dispenser: Liquid push-in valve, self-contained 1.18L (40 fl.oz.) translucent polyethylene tank, stainless steel piston and valve assembly, tamper proof filler lock, surface mounted, exposed metal components stainless steel. T6-
 - .1 Acceptable material:
 - .1 Bobrick B-2111
 - .2 Bradley 6562
 - .3 Watrous W-0347
- .7 T6 - Paper Towel Dispenser: To be provided by Owner installed by contractor.

2.2 COMPONENTS
(Cont'd)

- .8 T7 - Framed Mirror: One piece angle framed mirror, type 304 stainless steel, satin finish; secured to concealed wall hanger with theft-resistant locking screws; 457mm wide x 762mm high.
 - .1 Acceptable material:
 - .1 Bobrick B-290 1830.
 - .2 Bradley 780-1830.
 - .3 Watrous W-0600 18 x 30.
- .9 T8 - Full length Mirror: 24" wide x 72" high; mounting fittings to be included; mirror to have safety film; stainless steel channel frame and tempered glass.
 - .1 Acceptable materials:
 - .1 Bobrick: B-290 2472
 - .2 Bradley: 781 - 24"x72"
 - .3 American Specialties: 0600B - 24" x 72"
- .10 T9 - Robe Hook: One piece brass casting with satin nickel plated finish; concealed mounting plate. Heavy duty for 300 lb. downward pull.
 - .1 Acceptable material:
 - .1 Bobrick B-682.
 - .2 Bradley 9135.
 - .3 American Specialties 7382-B
- .11 T10 - Waste Receptacle: 0.8mm (22 ga.) stainless steel; exposed surfaces to have satin finish; equipped with vinyl bumper strip and rubber feet; cover equipped with 2 spring-loaded doors which have an international graphic symbol to indicate waste disposal; interior to be equipped with hooks for securing removeable liners; capacity of 73 to 79 litres.
 - .1 Acceptable material:
 - .1 Bobrick B-2250.
 - .2 Bradley 377.
 - .3 American Specialties 0812.
 - .4 Saferail, to match specification and dimensions.
- .12 T11 - Shower Curtain and Rod:
 - .1 Extra heavy duty curtain rod, 32mm (1-1/4") diameter 18 gauge type 304 stainless steel satin finish, with 62mm flanges; see drawings for length. Acceptable material:
 - .1 Bobrick B-6047.
 - .2 Bradley 9539.
 - .3 American Specialties 1204.

2.2 COMPONENTS
(Cont'd)

- .12 T11 - Shower Curtain and Rod:(Cont'd)
- .1 (Cont'd)
- .4 Saferail Model 1377S.
- .2 For each shower rod provide a shower curtain of opaque, matte white vinyl, 2mm thick, complete with nickel plated brass grommets every 150mm at top and stainless steel curtain hooks. Bottom and sides hemmed. Acceptable material:
- .1 Bobrick 204-2 curtain plus 204-1 hooks.
- .2 Bradley 9533 plus 9536 hooks.
- .3 American Specialties 1200-V plus 1200-SHU hooks.
- .4 Saferail Model 1381 curtain plus 1390-3LS hooks.
- .13 T12 - Shower Seat: Surface mounted seat of water-resistant, ivory coloured, 8mm thick solid phenolic. Frame and mounting bracket of type 304 stainless steel, with self-locking mechanism. Seat measures 450mm wide x 400mm (18"x15-3/4") projection; mounted 450mm (18") from floor to top of seat.
- .1 Acceptable material:
- .1 Bobrick B-5191.
- .2 Bradley 9558.
- .3 American Specialties 8209A.
- .4 Saferail.
- .14 T13- Recessed Soap Dish for shower: satin stainless steel.
- .1 Acceptable material:
- .1 Bobrick B-430.
- .2 Bradley 9535.
- .3 Watrous 9353.
- .4 American Specialties 7404.
- .15 T14 - Grab Bar: 32mm diameter, stainless steel, peened grip; satin finish at ends of bar and flange; 75mm diameter concealed mounting plate, with flange secured by set screws; 38mm clear from wall finish to grab bar; straight bar, 915mm long:
- .1 Acceptable material:
- .1 Bobrick
- .2 Bradley.
- .3 American Specialties.
- .4 Saferail.

2.2 COMPONENTS .16 T15 - First Aid Kit. See Section 10 80 00 -
(Cont'd) Miscellaneous Specialties.

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 CAN/CSA-G164.

.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.

2.4 FINISHES .1 Chrome and nickel plating: to ASTM B456,
finish as specified.

.2 Manufacturer's or brand names on face of
units not acceptable.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Install and secure accessories rigidly in place as follows:
 - .1 Hollow masonry units or existing plaster/drywall: use toggle bolts drilled into cell/wall cavity.
 - .2 Solid masonry or concrete: use bolt with lead expansion sleeve set into drilled hole.
 - .3 Toilet/shower compartments: use male/female through bolts.
- .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 where indicated. Exact locations determined by Departmental Representative.

PART 1 - GENERAL

- 1.1 WORK INCLUDED .1 Supply and installation of miscellaneous specialties included in this section. See drawings for quantity.
- 1.2 SHOP DRAWINGS .1 Submit shop drawings in accordance with section 01 33 00 - Submittal Procedures.
- .2 Indicate location, type, size, panel arrangement, backing, hardware, anchor or mounting details, frame or trim and accessories, details, electrical operating mechanisms, connections and required clearances.
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
.1 Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section 01 33 00 - Submittal Procedures.
.2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for any caulking, sealants and/or adhesive materials used during application and curing.
- .3 Shop Drawings
.1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
.2 Indicate design and installation details, sizes, materials, operating mechanisms, glazing locations and details, hardware and accessories and required clearances.
- .4 Manufacturer's Instructions:
.1 Submit manufacturer's installation instructions.
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PART 2 - PRODUCTS

- 2.1 GENERAL
- .1 Coordinate miscellaneous specialties and equipment with General Contractor and trade contractors for service and installation requirements where applicable.
 - .2 Refer to the plans for specific locations of specialties and equipment.
- 2.2 SPECIALTY PRODUCTS
- .1 Provide reinforcing, fastening and anchorage required for building in of products.
 - .2 Insulate between dissimilar metals, and metal and masonry materials, to prevent electrolysis with bituminous paint to meet specified requirements of CGSB Specification 1-GP-108M; or with methacrylate lacquer, 1-GP-159 if exposed to view.
 - .3 Prime paint on steel: for finishing under Work of other Sections shall meet specified requirements of CGSB Specifications 1-GP-40M for oil alkyd type structural steel primer, 1-GP-48 for steel marine primer, or 1-GP-132 for zinc chromate primer as applicable for specified finish treatments.
 - .4 Galvanizing:
 - .1 Zinc coated sheet; to meet specified requirements of ASTM Specification A525-76, zinc coating designation G90.
 - .2 Wipe coated sheet; zinc wiped coating 0.25 oz./ft².
 - .3 Zinc coated hardware; galvanizing to meet specified requirements of CSA Standard G164-1965.
 - .5 Specified materials are minimum acceptable quality. Manufacturer's standards exceeding specified quality will be accepted.
- 2.3 PRODUCT LIST
- .1 The following is a list of the miscellaneous manufactured specialty products and equipment required for this project.
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2.3 PRODUCT LIST
(Cont'd)

- .2 Rubber drainage mat: to be 3'x5' (915mm x 1525mm). Mat to be black; 1/2" (13mm) thick with drainage holes. Material to be natural rubber. Edges to be bevelled. Antifatigue model. Quantities indicated on drawings.
- .3 Security Safe: to be made of solid steel construction with dual locking combination and key lock. Safe to provide fire protection for a minimum of 2 hours up to 1700°F, UL, JIS verified. Safe to include a removable shelf, 2 dead bolts and 4 live locking door bolts. Capacity to be a minimum of 0.60m².
- .4 Tack Boards:
 - .1 Self healing white vinyl surface laminated to soft fibreboard; 4'x4'.
 - .2 Continuous aluminum frame with square profile, mitered corners.
 - .3 Include mounting hardware.
 - .4 Refer to schedule for location and quantities.
 - .5 Acceptable product: Richelieu # TB30044-301 Cameo.
 - .6 Quantity 5, locations to be determined.
- .5 First Aid Kit:
 - .1 Contents to comply with requirements of Nova Scotia occupational health and Safety.
 - .2 Provide where noted on drawings.
- .6 Clear plastic literature sleeve (for exit route signage sheets):
 - .1 Clear acrylic frame and backing, thickness of sign maximum 3/8". Refer to AC-100.
 - .2 Coordinate exact location of sign on site with Consultant.
 - .3 Allow space within holder to insert 11" x 17" paper.
 - .4 Allow for 24 sleeves, complete with installation.
- .7 Portable weigh scale:
 - .1 Weigh scale to have a minimum 1140 kg capacity.
 - .2 Platform size to be 1200mm x 1200mm and 75mm high.
 - .3 Seals frame and platform to be made of 304 stainless steel.
 - .4 Scale platform to have a textured tread plate.

2.3 PRODUCT LIST
(Cont'd)

- .7 Portable weigh scale:(Cont'd)
.5 Scale to be certified for 5,000 division accuracy.
.6 Scale to include wheel kit and bumpers and ramps.
.7 Scale to have an LED display.
.8 Hazardous area approval: FM, EX and CSA.
- .8 Mobile mesh cages:
.1 Dimensions to be 1800mm(L) x 1000mm(W) x 1500mm(H).
.2 Cages to have 500 kg capacity.
.3 Cages to include four (4) 2"x8" non-pneumatic wheels.
.4 Cages to be made of weleded steel assembly. Steel to be hot-dipped galvanized.
.5 Steel frames to 40mmx40mmx3mm steel.
.6 Mesh cages to have an open top.
- .9 Mobile scissor lift table:
.1 Lift table to have a 500 kg capacity.
.2 Lift table to be made of heavy duty steel construction.
.3 Table to have 4 casters - 2 frixed and 2 swivel.
.4 To include and automatic overload relief valve.
.5 To include a top of stroke by-pass valve.
.6 To include a footbrake on two wheels.
.7 Wheels to be polyurethane.
.8 Raised height of platform to be a minimum of 950mm.
.9 Horizontal platform to be 920mm length by 610mm width.
.10 Mobile lift table to include a 12 month warranty.
.11 Standard of acceptance: JCB Site Master 500-S-M-JCB.
- .10 Bins (plastic bin, wall organizers):
.1 Triton Products LocBin with interlocking poly bins. Six containers with wall mount rails and fastening hardware. Bin dimensions to be 14.75" deep, 7" high 8" wide. Each bin to support a minimum load of 30 lbs.
- .11 Wheeled plastic containers:
.1 Containers to have a volume of 401 liters.
.2 Bin to be 1168mm(L)x 762mm(W)x 914mm(D).

- 2.3 PRODUCT LIST (Cont'd)
- .11 Wheeled plastic containers:(Cont'd)
- .3 Bins to include castor bases. Bases to be 16mm (5/8") spruce plywood painted with a latex base primer.
 - .4 Material HDPE. Corrosion resistant.
- .12 Stationery automated bid washer; to include:
- .1 Semi-automated cart tipper for 120-360 litre carts.
 - .2 Grey water system and solid waste separation system.
 - .3 Electronic control panel.
 - .4 Hydraulic rotating water jet system.
 - .5 A pressure washer.
 - .6 Front door to have a safety enclosure.
 - .7 Standard of acceptance: Ginove G-wash STD 11.
- .13 Vertical downstroke baler:
- .1 Baler to make 1524mm(W)x 762mm(D)x 1219mm(H) bales.
 - .2 Bale volume to be 1.42 cubic meter.
 - .3 Body of baler to be constructed of 7 ga steel.
 - .4 Body floor: 7 ga floor plate, 152mm structural channel (203mm on V07230).
 - .5 Floor structure: 152mm structural channel (203mm on V-7230)
 - .6 Top cylinder supports: heavy 203mm structural channel integrated into main frame on 254mm structural channel and 25mm x 305mm plate beam with 25mm pinning plate.
 - .7 Platen face: 6.35mm (1/4") plate, 152mm structural channels and tubes (25mm on V-7230).
 - .8 Bale door: 7 ga. door plate 102mm x 76mm (152mmx76mm on V-7230) structural tube top rail, 102mm structural angle and channel.
 - .9 Ejector: manually-engaged, chain gype.
 - .10 Paint: primer bottom coat; industrial grade top coat, low VOC, high solids.
 - .11 Performance data:
 - .1 Cylinder bore, rod and stroke: 152mm x 89mm x 1219mm.
 - .2 Pump flow (gear pump): 10.5 GPM.
 - .3 Motor: 10 HP (1750 rpm)
 - .4 System pressure: 2000 psi
 - .5 Maximum system pressure: 2200 psi
 - .6 Platen pressure: 34 PSI
 - .7 Cycle time: 58 seconds.

- 2.3 PRODUCT LIST .13 Vertical downstroke baler:(Cont'd)
(Cont'd) .12 Electrical specs (same all models):
.1 Control voltage: 120 VAC
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- .2 Electrical: 208/230/460 3-phase
.3 Control box: NEMA 4 UL listed box
and controls.
.4 Controls: OFF/ON security key
switch; 3 position selector switch;
EMERGENCY STOP button; IEC motor starter
and overlaod, programmable smart relay.
.5 Baler to include and electronic
disconnect switch.
.6 Automatic bale ejector.

PART 3 - EXECUTION

- 3.1 INSTALLATION .1 Install specialties in strict accordance with
manufacturer's written instructions, plumb and
level.
- 3.2 CLEANING .1 Clean surfaces after installation using
manufacturer's recommended cleaning
procedures.
- 3.3 MAINTENANCE .1 Include maintenance and operating
instructions for inclusion in maintenance
anual.