
SPECIFICATIONS

NEW WASHROOMS FOR PORTABLES ST. STEPHEN CSS, BOWMANVILLE

FOR

PETERBOROUGH VICTORIA NORTHUMBERLAND & CLARINGTON CATHOLIC DISTRICT SCHOOL BOARD

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CAT 23007/Specifications

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ST. STEPHEN CSS, BOWMANVILLE
FOR PVNCCDSB**

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FOR

**PETERBOROUGH VICTORIA NORTHUMBERLAND
& CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD**

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**PETERBOROUGH VICTORIA NORTHUMBERLAND
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1. **GENERAL**

1.1. The owner is Peterborough Victoria Northumberland & Clarington Catholic District School Board.

1.2. Construction will be reviewed periodically by the Owner and the Architect. The Architect will be the administrator of the contract.

2. **WORK UNDER THIS CONTRACT**

2.1. Generally includes for the following work:

Conversion of one existing portable classroom into group male/female washrooms, a staff washroom, and custodian/storage room. Includes all plumbing, finishing and underground service connections to the main school building.

END OF SECTION 01010

1. GENERAL

- 1.1. Demolition and/or removal means the complete removal of all items and associated work from the site and the making good of all disturbed surfaces affected to acceptable finishes.
- 1.2. Electrical and mechanical demolition for installation of heating, ventilation, and electrical lighting including light fixtures and associated systems is the responsibility of the respective trade under supervision of the general contractor.
- 1.3. Remove existing components as required for installation of new work as noted. Confirm locations of all existing services on site prior to demolition activities.
- 1.4 Remove existing:
 - flooring/base
 - cabinetry/millwork
 - fitments
 - acoustic tile ceilings/lightingas per demolition plan

Note: items that will be retained and returned to the owners. Existing smart boards/projectors will be removed and reinstalled by owner's forces.

2. **EXECUTION**

- 2.1. Note that work is being performed within an existing building and the contractor is to provide protection of the work and property in accordance with Part 9 of CCDC 2.
- 2.2. Keep access areas to work reasonably clean during work and on completion perform final cleaning as specified.

END OF SECTION 02000

1. **GENERAL**

- 1.1. Comply with General Requirements Division 01.
- 1.2. Submit samples of block and brick before delivery to site.
- 1.3. Building in all miscellaneous inserts, anchors, blocking sleeves, lintels, conduit and other accessories as required.

2. **MATERIALS**

- 2.1. Concrete Block: All hollow concrete block shall be autoclave block having a minimum compressive strength of 7.5 MPa on the gross area, standard metric to sizes as indicated on the drawings and details. Concrete block to be 6” thick in locations noted to Atlas Block Co. Ltd. or equal.
- 2.2. Mortar shall be type N grey colour conforming to CSA CAN 3-5304-M78 and type S for load bearing walls to CSA standard A179, mortar and grout for unit masonry.
- 2.3. Non Shrink Grout: M-bed by Sternson Ltd.
- 2.4. Joint Reinforcement: Heavy Duty ladder type reinforcing for all single wythe masonry walls and extra heavy duty ladder type Blok-Lok for all walls with 2 wythes.
- 2.5. Provide masonry units for interior partitions to height and locations in thicknesses as indicated on the drawings.

3. EXECUTION

- 3.1. Give other trades notice of intention to proceed and incorporate anchors and other components to ensure proper installation of later work.
- 3.2. Lay block in running bond (half-bond) pattern. Select units randomly from cubes so as not to create a defined pattern.
- 3.3. Provide and maintain protection for masonry walls at all times when work is interrupted or temporarily ceased to prevent moisture from entering unfinished walls.
- 3.4. Comply with CSA A371-94 and use CSA A224 for cold weather requirements.
- 3.5. Joints shall be neatly tooled to produce concave joints. All interior surfaces ready for paint finishes.
- 3.6. Masonry shall be carried up solid between joints and built tight around beams and lintels with all voids full. Provide minimum 6” bearing for steel lintels bearing on masonry. Bearing shall be on solid masonry 8” deep and projecting 8” on each side of beam or base plate.
- 3.7. Install reinforcing continuously at every second course securely fastened to substrate unless noted otherwise.
- 3.8. Brace and support work as required during operation until final set is achieved.
- 3.9. Install masonry reinforcing in 2 consecutive courses above and below all openings in walls, extending not less than 600 mm (2’) on each side of opening. Install metal angles for all door and window opening perimeters as per details and fasten securely to block for support of door/window framing.

- 3.10. Build in hollow metal frames and ensure that anchors are solidly bedded. Fill hollow metal frames completely with grout.
- 3.11. Set lintels and other members that lay on masonry. Group them accurately in place and fill voids solid under joist and beam bearings, vertical reinforcing, and as noted on the drawings.
- 3.12. Provide reinforcing to connect new partitions to existing walls. Run all walls to underside of metal deck or concrete slab and secure to maintain acoustic/fire separations.
- 3.13. Clean masonry surfaces with water, detergent or proprietary masonry cleaner and brushes. Do not use muriatic acid.

END OF SECTION 04200

1. **GENERAL**

- 1.1 Conform to General Instructions as applicable.
- 1.2 Millwork includes for new cabinetry as noted on the drawings. Co-ordinate mechanical & electrical service installation with Division 15 & 16
- 1.3 All millwork to A.W. MAC standards.
- 1.4 Site measure to confirm all existing conditions. Submit shop drawings and samples of laminates, door panels, edging & all hardware to Architect for selection prior to ordering.
- 1.5 Warranty all work against manufacturing defects, including warpage or delamination, for a period of five (5) years from substantial performance date. Make good or replace work showing defects in this period, as requested, at no cost to the owner.
- 1.6 Install hollow metal doors and finished hardware as called for on drawings.

2. **MATERIALS**

- 2.1 Finishing Work: Materials used for finish work shall be sound, free from defects that would mar finished appearance, well seasoned and air dried and of good quality for intended purposes. Wood laminates pressure bonded
- 2.2 All counter tops and counter edges/splashes to have plastic laminate type 1 general Purpose. Post form tops with 4" splash as indicated, and laminate all exposed surfaces. Use 3/4" plywood cores typical all locations and provide support brackets as per drawings.

3. **EXECUTION**

- 3.1 Include for all finishing work indicated on drawings.
- 3.2 Fasten all work blind using screws and secure to solid blocking/substrate.
- 3.3 Co-ordinate work with other finishing trades/ mechanical and electrical trades for installation of services. Note all kicks to receive vinyl base supplied/installed by Division 9.
- 3.4 Installation and assembly work on job shall be executed by skilled trades. Install all work level, plumb, & true in all respects.
- 3.5 Provide smooth surfaces with fastenings sunk and filled over to receive finish. Use draw bolts in counter top joints.
- 3.6 Install all door hardware and adjust for smooth operation.

END OF SECTION 06400

1. GENERAL

- 1.1. Comply with General Requirements Division 01.
- 1.2. Submit shop drawings in accordance with Division 01.
- 1.3. Verify door sizes by site measures to suit existing openings.
- 1.4. Tag frames and doors and deliver to site with identification marks indicating proper locations.
- 1.5. Co-ordinate work of this section with other sections.
- 1.6. Prepare for all hardware – installation by Finished Carpentry Section 06400.

2. MATERIALS

- 2.1. Hollow metal door frames shall be fabricated of 18 ga. wipe coat galvanized steel reinforced and welded as manufactured by S.W. Fleming or equal fully insulated at locations called for. Minimum 6 anchors per frame.
- 2.2. Hollow metal doors shall be Type D-18 series as manufactured by S.W. Flemming Ltd., or equivalent, fabricated of 18 ga. wipe coat galvanized steel with no visible seams complete with 16 ga. end channels welded to top and bottom door insulated for exterior doors.
 - Shall be shop primed paste filled and sanded smooth, stiffened, insulation and sound deadened.
 - Shall be mortised, reinforced, drilled and tapped for hardware as scheduled.
- 2.3. Rated assemblies and sizes as per Door Schedule on drawings.

3. **EXECUTION**

- 3.1. Installation of frames and hardware – Doors and Hardware by Division 6.
- 3.2. Clean up and remove excess material from site.

END OF SECTION 08100

1. **GENERAL**

- 1.1. Comply with General Requirements Division 01.
- 1.2. Submit shop drawings, schedule, and samples in accordance with Division 01 for review prior to ordering materials.
- 1.3. Co-ordinate rough in of Doors & Frames with Section 08100.
- 1.4. Supply all hardware called for to Section 06400 Finished Carpentry for installation. Pack securely and label all material by door location.
- 1.5. Provide 10 year warranty for door closers and 1 year warranty for all other products from date of Substantial Performance.
- 1.6. Note positions indicated for reuse of existing hardware to replacement door positions.

2. **MATERIALS**

See Attached List

3. **EXECUTION**

- 3.1. See attached schedule for mounting heights and locations for rough in. Confirm existing frame hardware locations/sizes prior to ordering to ensure compatibility.
- 3.2. Take inventory of all materials and confirm locations, door swing, and rough in for all points prior to start of installation.
- 3.3. Installation of hardware by Section 06400 Finished Carpentry.

END OF SECTION 08700

1. GENERAL

- 1.1. Comply with Requirements of Division 01.
- 1.2. Install work within 1/8" of dimension location and flat within 1/8" maximum in 1/8" and 1/16" maximum in any running 12".
- 1.3. Proceed with work only in areas protected and closed from the elements with temperature above 10 deg. C.
- 1.4. Co-ordinate installation of grilles and light fixtures.

2. MATERIALS

- 2.1. Gypsum board: CSA A82.27-M1977 in thickness shown, abuse resistant for all areas. Rated drywall for locations as noted.
- 2.2. Resilient channels, steel galvanized.
- 2.3. Corner beads steel galvanized, 1/2 bead.
- 2.4. Screws: self drilling Phillips head, drywall screws #6 x 1" for single thickness.
- 2.5. Bracing channels: cold rolled steel, galvanized.
- 2.6. Furring clips: minimum 1/8" thick, galvanized.
- 2.7. Tie wire: 1/8" thick, soft annealed and galvanized steel wire.
- 2.8. Hangers: galvanized annealed steel wire, 3/32" diameter to support a maximum weight of 150 lbs., 2/16" diameter of 308 1/2 lbs., 3/16" diameter galvanized annealed steel rod to support a maximum weight of 550 lbs.
- 2.9. Joint cement, tape, topping compound: as recommended by wallboard manufacturer.

- 2.10 Metal access panels – 2' x 2' hinged, tamper proof non-rated metal access panels with frames.
- 2.11 Metal studs (non load bearing): Galvanized sheet steel, minimum 0.59 mm overall thickness zinc coating Z275 (25gsg) (0.247") screwable with crimped web and returned flange and tabs for security batt insulation in place. Provide knockout openings in web at 6" o.c. to accommodate (if required), horizontal mechanical and electrical service lines, and bracing. Width as shown on drawings.
- 2.12 Floor and Ceiling Partition Track: Galvanized sheet steel minimum 0.50 mm overall thickness zinc coating Z275 (25gsg) (0.247") pre-punched with square holes along center line and with minimum 1 – 1 ¼" legs, top track having longer legs where required to compensate for deflection of structure above. Width to suit metal studs.
- 2.13 Sound insulation – 3 1/2" thick mineral wool by Roxul or equal.

3. EXECUTION

- 3.1. Install gypsum board as recommended by Gypsum Association Specification No. GA-216-82 regarding temperature, finishing and methods of installation.
- 3.2. Frame openings and built in equipment with furring, furr in ducts, pipes and dropped beams occurring in finished areas.
- 3.3. Provide for integration of supports of equipment and components, and installation of flush mounted recessed components included in work of other sections only after consultation and verification with them of their requirements.
- 3.4. Framing and furring shown on drawings is indicative, but do not consider it as exact or complete. Construct work to withstand stresses imposed by use without either distortion or dimensional changes. Install wall framing to heights called for and brace all walls with diagonal supports to suit, full height to underside of roof deck for rated assemblies.

- 3.5. Make good drywall at cutouts for services and other work, and where defective. Fill in defective joints, holes and other depressions with joint compound, and ensure that surfaces are smooth and evenly textured to receive finish treatments. Laminate drywall over existing concrete walls in locations as called for.
- 3.6. Remove droppings and excessive joint compound from work of this and other sections before it sets.
- 3.7. Clean off beads and other metal trim, and leave all surfaces ready for specified finishes.
- 3.8. Construct framing for bulkheads around ductwork and drywall.
- 3.9. Clean up and remove excess material from site.

END OF SECTION 09250

1. **GENERAL**

- 1.1. Conform to the General Conditions as applicable.
- 1.2. Provide an additional 5% quantity of each acoustic board installed, in sealed and labeled cartons, for owners use, and deliver as directed.
- 1.3. Submit samples of acoustical tile to Architect for approval, prior to ordering.
- 1.4. Deliver materials in their original wrappings or containers with manufacturer's labels and seals intact and store in a dry area under cover and clear ground.
- 1.5. Ship grid members and moulding in rigid crates and avoid damage. Bent or deformed materials will be rejected.

2. **MATERIALS**

- 2.1. Suspension systems: equivalent to C.G.C. ceiling system for 2' x 4' grid assembly.
- 2.2. Basic Steel Material & Finish: Commercial quality cold rolled steel (0.179") (26 ga.) (0.455 mm) thick, galvanized zinc coating designation (G90) Z275. Exposed surface of metal products shall be factory finished with satin white enamel.
- 2.3. Hangers: Minimum .1084" (12 gsg.) overall thickness galvanized to zinc coating designation G90 (Z275).
- 2.4. Main Tees: 12'-0" long, zinc-coated steel, double web design, 1-1/2" web height, 15/16" face width.
- 2.5. Main Tee Splices: Designed to lock lengths of main tees together so that joined lengths of tee function structurally as a single unit tee faces at joint perfectly aligned and presenting a tight seam.

2.6. Cross Tees: 2'-0" and 4'-0" long at 2'-0" o.c., 1" web height structural cross-section design same as main tees, designed to connect at main tees forming positive lock without play, loss or gain in grid dimensions with offset over-ride of face flange over main tee flange to provide flush joint.

2.7. Edge Moulding: M7 wall moulding.

2.8. Tile:

- 2' x 4' x 5/8" medium textured non-directional panels 763 Georgian lay in
- All tiles NRC Range .5 - .55 as manufactured by C.G.C. Ceiling Systems or equal. Frame spread 25, colour white (match existing)

2.9. Tire Wire: 1.20 mm (18 gs.) nominal diameter galvanized soft annealed steel.

2.10. Inserts and Fasteners: Galvanized and of size suited for loading conditions.

3. **EXECUTION**

1.1. Install acoustic ceilings using tradesmen skilled in this class of work, in strict accordance with manufacturer's instructions and as specified herein.

1.2. Neatly and symmetrically fit and run suspended ceiling to true lines, evenly balance in all areas to pattern shown on the Drawings or as directed.

1.3. Centre ceiling system on room axis leaving equal full border tiles. Co-ordinate drywall bulkhead size to allow for full ceiling tiles as per reflected ceiling plan layout.

1.4. Recessed items shall replace or be centered on acoustical panels; except where indicated otherwise. Consult with Mechanical and Electrical Divisions to co-ordinate work. Provide additional supports where required.

- 1.5. Space hangers for suspended ceilings to support the grillage independent of walls, columns, pipes and ducts at maximum 4'-0" centres along the support grillage and not more than 6" from ends. Attach hangers to the overhead structure by hanger clips. Bend top of hangers at right angles, turn down and securely fasten. Turn bottom of hangers upwards and securely wrap three times.
- 1.6. Provide written conformation to Divisions 15 and 16, when requested by the Architect, that the suspended ceiling is capable to supporting the additional weight of mechanical and electrical fixtures required by Divisions 15 and 16.
- 1.7. Run main tees right angles to length of light fixtures.
- 1.8. Space main tees 4'-0" in one direction and securely tie to hangers.
- 1.9. Space cross tees 2'-0" o.c. at right angles to the main tees and properly lock at intersections.
- 1.10. Level the suspended systems with a maximum tolerance of 0.18" over 12'-0".
- 1.11. Use the longest practical lengths of tees, furring and running channels to minimize joints. Make joints square, tight, flush and reinforced with concealed splines. Assemble framework to form a rigid interlocking system.
- 1.12. Design suspension system to accommodate movement caused by thermal expansion or contraction.
- 1.13. Design and space hangers and carrying members to support the entire ceiling system, including lighting fixtures, diffusers and equipment openings in locations shown on drawings.
- 1.14. Use edge moulding where ceiling abuts vertical surface and bulkheads.

END OF SECTION 09510

1. GENERAL

- 1.1. Comply with requirements of Division 01.
- 1.2. Submit full size sample tiles.
- 1.3. At completion of work deliver to Owner 2% of the quantity installed of each flooring material, in each colour and pattern and in labelled packages.
- 1.4. Maintenance Instructions: Submit cleaning, waxing and finishing instructions for each installed material to Contractor for his information in final cleaning and waxing and later submission to Owner.
- 1.5. Proceed with floor laying only when surfaces, materials and air temperatures have been maintained between 21 and 32 deg. C. for 72 hours preceding installation, and will be so maintained during installation for 7 days following.
- 1.6. Barricade areas where flooring is completed and otherwise protect newly installed flooring until adhesive has set.
- 1.7. After flooring has set, and until project completion, co-ordinate work to ensure that floors are not damaged by traffic. Ensure that flooring is not subjected to any static loading during the week following installation.

2. MATERIALS

- 2.1. Flooring (VCT): To be 12" x 12" x 1/8" vinyl tile by Armstrong Excelon or equal. Colour(s) to be chosen later from manufacturer's standard line. Provide material from same production run for one area, and from same manufacturer for entire project.
- 2.2. Resilient Base: Coved bottom, 1/4" thick, 4" high, by Johnsonite Industries Limited or as approved by Architect, in colours selected by Architect from manufacturer's standard range.

- 2.3 Transition strips metal with colour matched vinyl strip.
- 2.4 Primer and Adhesive: As recommended by flooring manufacturer for each subfloor condition.
- 2.5 Cleaner: Neutral chemical compound that will not damage tile or affect its colour.

3. EXECUTION

- 3.1. Remove existing flooring/base and examine subfloor to ensure that moisture content is not in excess of maximum limit specified by adhesive manufacturer, and that surfaces and environmental conditions are satisfactory. Defective work resulting from unsatisfactory surfaces or conditions will be considered the responsibility of those performing the work of this section.
- 3.2. Determine types of curing agents and sealers applied in finishing concrete slabs, and their compatibility with flooring adhesives intended for use. Adopt methods required, including complete removal if necessary, to ensure that bond of adhesive is not impaired.
- 3.3. Remove dusting and caulking from concrete subfloors with wire brushes, and prime.
- 3.4. Clean subfloor to remove soil and deposits which would lessen adhesive bonding, and foreign materials which would telegraph through flooring. Fill joints, cracks and holes, and level irregularities with filler.
- 3.5. Prime subfloor as recommended by adhesive manufacturer and allow to dry.
- 3.6. Apply adhesive in an even coat over entire subfloor area with notched trowels, and lay tile before it sets. Do not lay flooring over hardened adhesive.
- 3.7. Install tile laid out with continuous joints parallel to minor axis of rooms and joints parallel to major axis half staggered, with grain of adjacent tile parallel, and with no tiles of varying pattern, color and texture over floor areas to ensure an evenly blended appearance. Do not lay tile having pattern, color or texture in marked contrast with other

tile, form tapers by sanding backs of tiles at junctions with thinner finish flooring to flush up surfaces. Use waterproof adhesive on slabs on grade and in washrooms, janitor rooms, and similar areas subjected to frequent floor scrubbing.

- 3.8 Butt joints closely and cut and fit flooring around door frames, openings in floor and at heavy equipment bases. Note flooring sections to be replaced with vinyl tile in 3rd floor classrooms with movement joint (1/8" wide gap).
- 3.9 Install bases in lengths as long as possible, not in runs made up of short lengths . Cut mitre internal corners and provide preformed external corners, and accurately scribe around door frames, openings and similar wall breaks. In areas where bases are indicated, install also on columns and fitments with in the area.
- 3.10 Clean off excess adhesive before it sets. Clean flooring no sooner than 48 hours following installation. Use floor cleaner where required. Sealing and waxing will be done by others.

END OF SECTION 09660

1. **GENERAL**

- 1.1. Comply with General Requirements Division 01.
- 1.2. Meet standards specified in Architectural Painting Specification Manual, Ontario Edition published by the Canadian Painters Contractor's Association.
- 1.3. Submit samples of each specified paint, colour and wood finish.
- 1.4. Submit list of all materials, manufacturer catalogue numbers, etc.
- 1.5. Deliver to Owner on completion of work, one quart of each colour, clearly labeled.
- 1.6. Cover or make surfaces adjacent to those being finished and protect work of others from damage and/or paint spills.
- 1.7. Repainting of existing repaired surfaces shall extend to closest edge(s) if proper match not obtainable.

2. **MATERIALS**

- 2.1. Manufacturers approved for supply of materials are:
 - Canadian Industries Ltd. (CIL)
 - Dulux
 - Pratt & Lambert Inc.
 - Canadian Pittsburgh Industries Ltd.
 - Benjamin Moore
 - Glidden

2.2. Supply only the best quality material for each specified line.

2.3. Materials used shall meet or exceed CGSB Specifications.

3. **EXECUTION**

3.1. Examine surfaces prior to application for moisture content and acid alkali balance.
Acceptance of surfaces signifies responsibility for finished products.

3.2. Clean all surfaces and remove foreign materials, fill cracks, holes and depression and smooth for finish.

3.3. Paint piping, conduit, grilles, duct work exposed to view to match background colour.

3.4. Patch, repair and paint all new duct penetrations. Paint all new and existing concrete block, metal deck/joists, ductwork, doors and frames.

3.5. Colours will be provided by Architect upon award of contract.

3.6. Finishes:

Interior Metal Work

- 1 coat primer
- 2 coats of acrylic latex semi-gloss finish

Interior New Painted Drywall

- 1 coat of latex sealer
- 2 coats of acrylic latex eggshell finish
(corridor drywall Bulkhead)

Interior Existing Concrete

- 1 coat of X-per 250 Gripper
- 2 coats of acrylic latex eggshell finish

3.7. Clean-Up

- 3.7.1. Clean up daily. All paint rags, empty cans shall be removed from the site upon completion of each day's work. Upon Total Completion provide total clean up.

END OF SECTION 09900

1. GENERAL

- 1.1. Comply with requirements of Division 01.
- 1.2. Co-ordinate with Section 10800 Washroom Accessories.
- 1.3. Stalls for handicapped shall meet regulatory requirements for barrier free access.
- 1.4. Upon consultant's request, submit a reduced size sample of a door and pilaster assembly, complete with all hardware and anchorage devices. Submit duplicate minimum 50 x 100 mm plastic laminate samples. Confirm colour selections made by consultant.
- 1.5. Submit detailed shop drawings. Clearly indicate fabrication details, plans, elevations, hardware, and installation details.
- 1.6. Protect finished laminated plastic surfaces during shipment and installation by approved means. Protect surfaces until Substantial performance.
- 1.7. At no cost to owner, remedy any defects in work of this section and provide warranty for 10 years for defects in manufacturer fabrication, breakage, delamination or corrosion.

2. MATERIALS

- 2.1. Partition System: Floor mounted overhead braced to be Sentinel Series 400 by Bradley or equal.
- 2.2. Doors, panels and pilasters to be constructed from 1" thick high density polyethylene (HPE) resin pressed under high pressure to form a single component. Material to be water proof and shipped with self-adhesive coating for protection. Consultant will select colours from manufacturer's standard range.

- 2.3. Stainless steel sheet metal: to ASTM A666, type 302 or 304 with No. 4 finish.
- 2.4. Hardware: through bolted type, fabricated of stain finish type 304 stainless steel or heavy duty aluminum.
 - 2.4.1. Hinges: self-closing type, adjustable to hold door open at any angle up to 90 degrees.
 - 2.4.2. Slide bolt and keeper: equipment for emergency access.
 - 2.4.3. Door stop; with rubber insert and coat hook.
 - 2.4.4. Wall and connecting brackets: stainless steel
 - 2.4.5. Door pull: D-pull for out swinging doors
- 2.5. Overhead brace: extruded aluminum channel with colour anodized finish and anti-grip design.
- 2.6. Fasteners: stainless steel tamper proof one-way type screws and bolts.
- 2.7. Panels/doors to be fabricated to 55” high with all edges rounded to 3/16” radius and receive aluminum heat sink strip fastened to the bottom edge pre-drilled for all hardware.

3. EXECUTION

- 3.1. Install partitions secure, plumb and square.
- 3.2. Attach pilasters to floor with pilaster supports and level, plumb, and tighten installation with leveling device. Provide for adjustment of flooring variations with screw jack through steel saddles made integral with pilaster.
- 3.3. Secure pilaster shoes in position.
- 3.4. Set doors in closed position level with panels, parallel with overhead brace.
- 3.5. Leave maximum 12 mm space between wall and panel or end pilaster. Leave maximum 3 mm space between doors and pilasters.
- 3.6. Attach wall brackets surely to solid masonry and concrete walls using screws, and shields to hollow walls using bolts and toggle type anchors. Ensure suitable mounting plates, brackets or solid blocking are in place and securely anchored at gypsum board partitions. Provide minimum 3 brackets per pilaster/panel edge to be anchored.
- 3.7. Attach panel and pilaster to brackets with through type sleeve bolt and nut. Provide minimum brackets per panel height.
- 3.8. Equip each door with hinges and latch set. Adjust and align hardware for easy, proper function. Set door open position at 30 degrees to front. Provide door stop at each door.
- 3.9. Equip out swinging doors with door pulls inside and outside, and wall or door bumper outside.

END OF SECTION 10165

1. GENERAL

- 1.1. Comply with requirements of Division 01.
- 1.2. Submit shop drawings for review and comment.
- 1.3. Supply products for installation under Section 06200.
- 1.4. Provide warranty on all products for 2 years.

2. MATERIALS

2.1. Washroom Accessories

2.1.1 The following items will be purchased and installed by this contract:

- Mirrors - 1 per sink
 - 24"x 48" fixed mirror for each sink location. American Specialties or equal.

2.1.2 The following items will be supplied by the owner to be installed by this contract.

- One surface mounted soap dispenser – 2 per washroom
- One surface mounted toilet tissue dispenser – 1 per toilet location

Note: Electric hand dryer by Division 16.

3. **EXECUTION**

- 3.1. Install washroom accessories securely with the concealed fasteners supplied by the respective accessory manufacturer in accordance with recommendations of the manufacturers and to the satisfaction of the Architect.

END OF SECTION 10800

ELECTRICAL NOTES**1. WIRING**

- Use materials and methods approved by the Ontario Electrical Code for use in non-combustible construction.
- All building wire to be copper type RW90-XLPE.
- Use minimum of #12 AWG for branch circuit wiring.
- Use armoured cable type AC90 (BX) in concealed wall and ceiling cavities.

2. PERMITS

- Submit to ESA necessary drawings/specifications for examination prior to start of work and pay associated fees.

3. SHOP DRAWINGS

- Provide 6 copies of data sheets for all products for review prior to ordering.

4. SYSTEM DEMONSTRATION

- Provide demonstration of each system to owner after final inspection.
- Instruct personnel in operation adjustment and maintenance of equipment systems.

5. MANUALS & AS BUILT DRAWINGS

- Provide 2 copies of warranties, certificates of ESA inspection, fire alarm verification report, and all product information along with 2 copies of as-build drawings marked up in red. See drawings for fixture types.

6. OTHER

- Occupancy sensor to be Dual Technology, 360 degree ceiling mounted, low voltage, white in color, c/w manual on/off power pack.
- Type A light fixtures to be 1 x 4 recessed LED troffer 3560 lumens (30W) with standard shielding, 120V, 4000K Cooper-Metalux model 22FP324OC or equal. Type B as above only surface mounted.
- Hand dryer to be XLERATOR XL-W-ECO or equal and provide power to suit.
- Exit sign self powered single face running man ceiling mounted LED Emergilite or equal.
- Emergency lighting single remote head, 12VDC, 5W, MR16LED Emergilite or equal. Provide adequate battery pack to suit in storage room.

APPENDIX

NEW WASHROOMS FOR PORTABLES ST. STEPHEN CES, BOWMANVILLE											Wilcox Architects Inc. May 2023 Page 1 of 2		
ROOM FINISH SCHEDULE													
		WALLS					FLOOR & BASE			CEILING			
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments	
Rm. No.	Room Name	ALL NEW U.O.N					ALL NEW V.T. + V UON			ALL CEILING NEW UON			
P01	NEW BOYS W/C	DW/PT	DW/EX CONC PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	
P02	NEW CUSTOD RM	DW/PT	DW/PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	
P03	NEW GIRLS W/C	DW/PT	DW/EX CONC PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	
P04	NEW CORR	EX CONC/PT	EX CONC/PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	

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APPENDIX

NEW WASHROOMS FOR PORTABLES ST. STEPHEN CSS, BOWMANVILLE											Wilcox Architects Inc. May 2023 Page 2 of 2		
<u>ROOM FINISH SCHEDULE</u>													
		WALLS					FLOOR & BASE			CEILING			
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments	
Rm. No.	Room Name												
P05	NEW STAFF W/C	DW/PT	DW/PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	
P06	NEW STO.	DW/PT	DW/PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	
P07	NEW OFFICE 1	DW/PT	DW/PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	
P08	NEW OFFICE 2	DW/PT	DW/PT	DW/PT	DW/PT	-----	VT	V	-----	AT	----	8' HT	

APPENDIX

NEW WASHROOMS FOR PORTABLES
ST. STEPHEN CSS, BOWMANVILLE

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HARDWARE LIST

Door #1 – Existing Corridor to New Boys W/C

1	Lever Classroom Lockset	28X 10G38 X 626
3	Hinges	FBB168 114 X 101 X C15
1	Closer	4040 X PX X689
1	Wall Stop	232W
1	Kick Plate	190S X 203 X 914 X 630

Door #2 – Existing Corridor to New Corridor

1	Lever Classroom Lockset	28X 10G38 X 626
3	Hinges	FBB168 114 X 101 X C15
1	Closer	4040 X PX X689
1	Wall Stop	232W
1	Kick Plate	190S X 203 X 914 X 630

Door #3 - Existing Corridor to New Girls W/C

1	Lever Classroom Lockset	28X 10G38 X 626
3	Hinges	FBB168 114 X 101 X C15
1	Closer	4040 X PX X689
1	Wall Stop	232W
1	Kick Plate	190S X 203 X 914 X 630

Door #4 – New Corridor to New Staff Washroom

1	Lever Privacy Set	28X 10U65 X CC X 626
3	Hinges	FBB168 114 X 101 X C15
1	Wall Stop	232W

NEW WASHROOMS FOR PORTABLES
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NEW WASHROOMS FOR PORTABLES
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HARDWARE LIST

Door #5 – New Corridor to New Storage Room

1	Lever Storeroom Lockset	28X 10G04 X LL X626
3	Hinges	FBBX169 114 X 101 X C15
1	Kickplate	190S X 203 X 914 X 630

Door #6 – New Corridor to New Office #2

1	Lever Classroom Lockset	28X 10G38 X 626
3	Hinges	FBBX169 114 X 101 X C15
1	Wall Stop	232W

Door #7 – New Corridor to New Custodian Room

1	Lever Storeroom Lockset	28X 10G04 X LL X626
3	Hinges	FBBX168 114 X 101 X C15
1	Closer	4040 X PX X689
1	Kickplate	190S X 203 X 914 X 630

Door #8 – New Corridor to New Office #1

1	Lever Classroom Lockset	28X 10G38 X 626
3	Hinges	FBBX169 114 X 101 X C15
1	Wall Stop	232W

All keyed to owners master key system

NEW WASHROOMS FOR PORTABLES
ST. STEPHEN CSS, BOWMANVILLE
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APPENDIX
LIST OF ABBREVIATIONS

Wilcox Architects Inc.
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A	ARC	ADJ	Adjustable
AB	Air Barrier	AL, ALUM	Aluminum
ABV	Above	ARCH	Architectural
A.C.	Air Condition	A.T.	Acoustic Tile
BL, BLK.	Block	BR ANOD	Bronze Anodized
BLDG	Building	B/S	Both Sides
BLKHD.	Bulkhead	BTM, B/	Bottom Of
BLW	Below	B.U.R.	Built-Up Roof
BM.	Beam, Beams		
CAB.	Cabinet	COL	Column
CABS	Cabinets	CONC.	Concrete
CAR	Carpet	CONT.	Continuous
C.B.	Catch Basin	CRS	Course
CB	Concrete Block	CS	Concrete Slab
CCS	Clear Concrete Sealer	CT	Ceramic Tile
CLF	Chain Link Fence	CTNG	Coating
CLG	Ceiling	CTOP	Counter Top
CLOS	Closet	C/W	Complete With
CNR	Corner		
D.C.	Display Case	DN	Down
DIA	Diameter	DR	Door
D/G	Double Glazed	DW	Drywall
E	East	EQ	Equal
EL	Elevation	E/S	Each Side
ELEC,ELEC'L	Electrical	EX., EXIST	Existing
ELEV	Elevator	EXT.	Exterior
ENCL	Enclosed		

APPENDIX LIST OF ABBREVIATIONS

Wilcox Architects Inc.
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F	Female	FIN	Finish
FD	Floor Drain	FL	Floor
FND	Foundation	FLS	Flood Lights
F.E.	Fire Extinguisher	F.P.	Fire Protection
FFL	Finish Floor Level	FR.	Frame
F/G	Fixed Glazing	F.R.	Fire Rated; Fire Rating
F.H.	Fire Hydrant	FTG.	Footing
GALV.	Galvanized	GR	Grade
GL	Glazing	GWG	Georgian Wired Glass
H.C.	Handicap	HORIZ	Horizontal
HD	Head	H.P.	Hydro Pole
HDWRE	Hardware	HR	Hour
H.M.	Hollow Metal	HT, HGT.	Height
H.O.	Hold Open	HTR.	Heater
ID	Inside Diameter	INSUL	Insulation
INC/	Including	INT.	Interior
IND	Indicates	I/S	Inside
INFO	Information		
J	Joist		
LBL	Label		
LOC	Location		
LWR	Lower		

APPENDIX
LIST OF ABBREVIATIONS

Wilcox Architects Inc.
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M	Male	MIR	Mirror
MANF	Manufacture	M.L.B.	Micro-Lam-Beam
MAT.	Material	MT	Minute
MAX	Maximum	MTD	Mounted
MECH,MECH'L	Mechanical	MTL	Metal
M.H.	Manhole	M.U.A.	Make-Up-Air
MIN	Minimum		Mechanical Unit
N.	North	N.I.C.	Not In Contract
OA	Overall	OH	Overhead
O.B.C.	Ontario Building Code	OPNG	Opening
O/H	Overhang	O.S.	Over Size
PART'N	Partition	POL.	Polethylene
P.C.	Pre-Cast	PR	Pair Prefinished
PL	Plate	PREFORM	Preformed
P.LAM	Plastic Laminate	P.T.	Pressure Treated
PLY, PLYWD	Plywood	PT	Paint
R	Radius	REF.	Reference
R.D.	Roof Drain	REV	Reversed
REF	Refrigerator	R.S.O.	Rough Stud Opening
REQ'D	Required	R & S	Rod and Shelf
RES	Resistance	R.W.L.	Rain Water Leader

APPENDIX
LIST OF ABBREVIATIONS

Wilcox Architects Inc.
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S	South	S.P.	Splash Pad
S.A.B.	Sound Attenuation Blanket	S.P.M.	Single Ply Membrane
SAN.	Sanitary	S.S.	Stop Sink
SC	Solid Core	ST	Stain
SCR	Screen	STD	Standard
SEP	Separation	STL	Steel
S/G	Single Glazing	STR	Stringers
SHLVS	Shelves	STRUCT'L	Structural
SHTG	Sheating	ST.S	Storm Sewer
S.O.G.	Slab On Grade		
T/	Top Of	T.T.	Terrazo Tile
T.B.	Thermal Broken	T. & WD	Towel & Waste Disposal
T. & B.	Top And Bottom		
TEX	Textured	TYP	Typical
T. & G.	Tongue & Groove		
U/C	Under Counter	UPR	Upper
U.O.N.	Unless Otherwise Noted	U/S	Underside
V.	Vinyl	VERT	Vertical
VAL	Valance	V.T.	Vinyl Tile
VAN	Vanity	V.W.C.	Vinyl Wallcovering
V.B.	Vapour Barrier		
W/	With	WIN	Window
W.C.	Water Closet	W.F.	Wood Fibre
WD	Wood	W.V.	Water Valve