SPECIFICATIONS

RENOVATIONS TO ST. PETER CATHOLIC SECONDARY SCHOOL, PETERBOROUGH

FOR

PETERBOROUGH VICTORIA NORTHUMBERLAND & CLARINGTON CATHOLIC DISTRICT SCHOOL BOARD

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CAT 17053/Specifications

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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:

- Removal/replacement of existing flooring, cabinetry, acoustic tile ceiling and lighting in the Library area. New interior wall openings with doors/windows for same and new partitioning as per layout. New mechanical grilles and minor ductwork revisions.
- Removal of existing concrete block partition between the Health and Weight Rooms. Install new metal guard, stair and handrail.
- Demolition of interior of existing change room to install new Health Room and universal washroom with new partition, plumbing, HVAC, and finishes throughout this room.

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
- doors/frames
- fitments
- acoustic tile ceilings/lighting
- interior drywall and bulkheads
- partitions and new openings in load bearing walls
- cutting of floor slabs for new plumbing services

as per demolition plan

Note: items that will be retained for reinstallation.

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

DIVISION 3 CONCRETE
SECTION 03300 CAST-IN-PLACE CONCRETE April 2018

1. GENERAL

1.1. Comply with requirements of Division 01 and structural drawing.

1.2. Work of this section includes supply and placing of concrete, supply and installing of reinforcing steel, supply and installation of form work, and building in of other items supplied under other sections.

1.3. Related sections:

- Earth Work 02200
- Unit Masonry 04200

1.4. Conform to Ontario Building Code - latest regulations.

1.5. All workmanship to be performed by skilled and experienced workmen with a competent supervisor to be on site continuously throughout each work day.

1.6. Protect existing and new construction. Be responsible for repair and/or replacement of items damaged in the construction of this work.

1.7. See structural drawings.

2. MATERIALS

2.1. The ultimate 28 day compressive strength of concrete unless noted otherwise, shall be 25 Mpa with air entrainment content of 5.9% to 7% and maximum water/cement ratio by mass of 0.55.

2.2. The concrete supplier shall be responsible for concrete mix design - conform to CSA A23.

2.3. Only read mix concrete is permitted on this job.

2.4. Vapour barrier to be 6 mil polyethylene.

2.5. Joint filler to be non-extruded pre-moulded fibre type saturated in bituminous binder.

2.6. Curing/sealing compounds to ASTM C309.

2.7. Welded mesh reinforcing for slabs to CSA.G30.5.

2.8. Joint filler for saw cuts to be Loadflex by Sika or equal.

3. EXECUTION

3.1. Supply and install concrete, including placing, finishing and curing as shown in accordance with CSA A23 and CSA G30.

3.2. Install pre-moulded joint filler at all junctions of slab with foundation wall.

3.3. Install new footings on undisturbed ground capable of supporting loads as per structural drawings.

3.4. Provide new concrete slab, as noted on the drawings, over vapour barrier - steel trowel finish.

3.5. Provide saw cuts for maximum panel size as indicated on drawings within 24 hours of placing concrete. Fill with Loadflex flush with top of slab.

3.6. Provide two coats of clear sealer.

END OF SECTION 03300

DIVISION 4 MASONRY
SECTION 04200 UNIT MASONRY April 2018

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 8" or 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. Remove sections of existing masonry carefully and tooth back repair work matching existing.

3.13 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.

3.14. Clean masonry surfaces with water, detergent or proprietary masonry cleaner and brushes. Do not use muriatic acid.

END OF SECTION 04200

DIVISION 5 METALS
SECTION 05500 MISCELLANEOUS METALS April 2018

1. **GENERAL**

1.1. Comply with General Requirements of Division 01.

1.2. Supply bolts, anchors, inserts, and pipe sleeve required by Division 03 and 04.

1.3. Submit shop drawings in accordance with Division 01.

1.4. Welding to CSA W59-1977.

1.5. Shop prime to CSA S16-1969.

1.6. Provide protection to prefinished metal surfaces that receive no site finish.

2. **MATERIALS**

2.1. Materials generally new, free of rust, waves, buckles or other visible defects.

2.2. Handrails & Guards – 1½" dia. metal posts and rails with 5/8" round pickets.

3. **EXECUTION**

3.1. Fabricate to ensure that work will remain free of warping, buckling, opening of joints and seams. Deliver components to site in largest practicable sections and railings in greatest possible lengths. Install temporary leveling strip at base.

3.2. Fit joints, corners, caps and miters tightly, smoothly and in true planes, and with concealed fastenings unless this is impossible by detail. Provide for differential movements within assembles and at junctions between this and other work.

3.3. Weld connections where possible: bolt where not possible, cut off bolts flush with nuts, countersink bolt heads and provide means to prevent loosening of nuts. Make welded joints tight and flush, ground smooth where exposed to view.

3.4. Finish surfaces and edges smooth, including holes. Fill joints and depressions with metal post filler or welds, and grind smooth.

3.5. Cap open ends of pipes, channels, angles and other similar components that are exposed to view. Support work with level bearings. Machine grind bearing surfaces at loose components. Holes and connections: ream holes and include as required for other work.

3.6. Priming of Steel - one coat of prime paint on surfaces unless otherwise specified and except where field welded, galvanized or embedded in concrete. Remove from surfaces loose scale, rust, dirt, weld flux and other foreign materials, and grind sharp projections smooth before priming. Give surfaces inaccessible to finish painting two coats of prime paint.

END OF SECTION 05500

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 Birch Veneer Plywood: Select Plain Sliced White Birch Premium Grade ‘A’ No. 1 Face grade as in compliance with C.S.A. 0115-M1982 with a minimum 5 ply plywood veneer waterproof core, laminate with waterproof adhesive. Plywood shall be good both sides except where concealed by construction. Exposed faces to natural grade per AWMAC. Interior of doors to be classified as exposed. Use ¾” for all shelving, door/drawer fronts, and gables. Use ½” for drawer bottoms & cabinet backs. All exposed edges to have 3/8” thick bull nosed hardwood nosings. All surfaces to be ready for 1 coat stain and 2 coats urethane finish.

2.3 All counter tops and counter edges/splashes & window sills covers to be faced with plastic laminate type 1 general purpose. Post form tops with 4" splash as indicated, and laminate all exposed surfaces. Use ¾" plywood cores typical all locations.

2.4 All cabinetry to be frameless type complete with metal drawer slides (both sides) with ball bearings, 120^0 self closing hinges, and metal d pulls - brushed chrome finish. Use recessed chrome pilasters for shelf support (2 per side typical). Specific list as follows:

PULLS	CBH #255 - C15
HINGES	Blum #95 M5580 full overlay 125º, with appropriate #195 series mounting plate
DOOR BUMPER	Blum #TP1950 adhesive type (2 per door)
ELBOW CATCH	Amerock #3675
SURFACE BOLT	Hafele #252.02.0644 or Stanley 79-3021 with appropriate keeper/strike plate
PILASTER	K & V #255 ZC
PILASTER CLIP	K & V #256 ZC

3. EXECUTION

3.1 Include for all finishing work indicated on drawings.

3.2 Edge all doors, shelves, drawer fronts etc. in matching bull nosed hardwood trims minimum 3/8" thick. Fasten all work blind using screws and secure to solid blocking/substrate. Finish all exposed cabinetry and doors etc. with minimum 1 coat light stain & 2 coats of urethane, i.e.: natural finish

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 hardware and adjust for smooth operation.

END OF SECTION 06400

DIVISION 8 DOORS & WINDOWS
SECTION 08100 HOLLOW METAL DOORS & FRAMES April 2018

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. Hollow metal screens and windows shall be pre-fabricated from 16 ga. wipe coat galvanized steel in open end sections standard pressed steel sections with glass stops opening to sizes required, equivalent to S.W. Flemming Ltd.

2.4. Rated assemblies and sizes as per Door Schedule on drawings.

2.5. Rated glazing to be Fire Lite.

3. EXECUTION

3.1. Installation of frames and hardware – Doors and Hardware by Division 6/Frames by Division 9.

3.2. Locate and anchor frames in alignment with other work. Anchor frames to retain position and clearance during construction of walls and partitions.

3.3. Brace frames solidly in position while being built in. Install temporary wood spreader at mid-height of frame to maintain width until adjacent wall work is completed.

3.4. Generally, anchorage of frames shall be by means of standard anchors. Where standard anchors cannot be used, provide suitable anchors to ensure proper installation. Method of anchorage shall not be visible when frames are installed.

3.5. Install glazing in strict conformance with the manufacturer's recommendations.

3.6. Clean up and remove excess material from site.

END OF SECTION 08100

1. **GENERAL**

1.1. Comply with requirements of Division 01.

1.2. Submit shop drawings indicating all materials and details and sample of all materials.

1.3. Provide 5 year extended warranty against all leaks, faulty workmanship and materials including caulking. 10 years on all hermetically sealed glazed units.

1.4. Work of this section shall be executed by skilled, experience personnel working for firm with a minimum of five (5) years proven first class experience that is thoroughly conversant with laws and regulations which governs and that is capable of workmanship of best grade of modern shop and field practice.

2. **MATERIALS**

2.1. Anodized aluminum to CAN3-A440-M90, clear anodized finish.

2.2. Glazing to be single and tempered/clear.

2.3. **Entrance & Window Framing**

2.3.1. Windspec 630 series or equal 2" x 4½" sections framing complete with all fasteners, sills, trims, and matching fillers as required, see drawings for frame depths and locations.

2.4. **Doors**
Door to be Windspec Series 350 Medium Stile non thermally broken door or equal, glazing with 6 mm thick clear tempered low E sealed units (3'-0" x 7'-0"). Door shall be equipped with continuous aluminum full mortised continuous hinge, applied wall stops or floor stops as required. Door shall also be equipped with Architects Classic push and pull, 12" aluminum complete with through bolts/Sargent "8500 series narrow design" rim type clear anodized panic device. Use integral centre solid rail 8 ½" high. Provide deadlock (cylinder supply by Finish Hardware section) with standard latch for panic devices.

2.5. Caulking to Dymeric by Tremco or equal to CAN2-19.24-M80.

3. EXECUTION

3.1. Set in correct location, level, square, plumb and proper alignment to other work using appropriate finishing components.

3.2. Aluminum surfaces adjacent to masonry or other dissimilar materials be given a heavy coat of bituminous paint on contacting surfaces.

3.3. Caulk all joints at junctions.

3.4. Provide final cleaning to remove job site soilings.

END OF SECTION 08520

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, rated drywall for rated assemblies.

2.2. Resilient channels, steel galvanized.

2.3. Corner beads steel galvanized, ½ 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 ½ 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 (25 gsg) (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 & Ceiling Partition Track: Galvanized sheet steel minimum 0.59 mm overall thickness zinc coating Z275 (25 gsg) (0.0247") 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 – 3½" 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.

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

DIVISION 9 FINISHES April 2018
SECTION 09300 CERAMIC TILE

1. GENERAL

1.1 Comply with requirements of Division 01.

1.2 Fully protect the work of others from damage arising out of the execution of the work.

1.3 Cover floors with heavy kraft paper and remove just before final cleaning.

1.4 Provide 1 calcium chloride test for each washroom to confirm moisture content is acceptable to install new flooring.

2. MATERIALS

2.1 Ceramic Tile:
- Washroom Area - unglazed porcelain non-slip matt finish 2" x 2" Olympia Montana with 2" x 2" integral cove base or equal. Colour to be chosen later to manufacturer's standard range.

2.2 Adhesive:
- Primer, grout, cements, self levelling, and waterproof products to Kiesel system distributed by Halton Imports or approved equal.

2.3 Grout shall be made with Flextile Polymer modified wall grout admixture, or approved alternate to manufacturer's printed instructions, (waterproof, self-curing, non-dusting, dry-set cement type, non absorbent, capable of being colours, suitable "thin-set" method of tile installation. Colour to be selected later from standard colour list for suites.

3. **EXECUTION**

3.1 Prepare surfaces and install tile in strict accordance with the manufacturer's directions. Shot blast all existing concrete slab surfaces to remove paints and other impurities. Apply primer and self levelling products and waterproofing system for all floors and all walls/shower floor strictly in accordance with the manufacturer's recommendations.

3.2 Perform work neatly and carefully by persons skilled in this trade.

3.3 Note that backing surface shall be sound, well-cured and dry and surface variation shall not exceed 6mm in 2.4M (1/4" in 8-0"). Wall substrates to be concrete block or cement board installed by other Divisions.

3.4 Apply adhesive in accordance with manufacturer's instructions.

3.5 Layout tile so that fields or patterns are centred and so that no tile is less than one half size. Joints to run through. Faces and joints shall be plumb and true. Form intersections, corners and returns accurately. Butt internal vertical intersections.

3.6 Sound tiles after setting and replace hollow-sounding units to obtain full bond.

3.7 Clean with cloths dampened with mineral spirits and allow to dry overnight before grouting and grout with dry-set cement forcing grout well in joints and remove excess and polish with clean cloths.

3.8 Do not permit any foot traffic for 48 hours following installation.

3.9 Install bases in lengths as long as possible, not in runs made up of short lengths. Cut and mitre internal corners and provide preformed external corners, and accurately scribe around door frame, openings and similar wall breaks. In areas where bases are indicated, install them also on columns and fitments within the area.

3.10 Provide full maintenance and cleaning instructions for inclusion in maintenance manuals.

Cleaning

3.11 Clean tile immediately after grouting. Stainless steel wool may be used to remove spots of grout which have set on surface.

3.12 If acid cleaning is deemed necessary, obtain written permission from Architect before proceeding.

END OF SECTION 09300

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' and 2' x 2' grid assembly – see drawings.

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, 1-½" 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' and 2 x 2' 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 centred 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 conformations 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 (MCT): To be 2.0 mm thick 13.1" x 13.1" Forbo or equivalent. Colour 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, ¼" thick, 6" 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 less than half size unless minor room irregularities make this impossible. Distribute tiles of varying pattern, colour and texture over floor areas to ensure an evenly blended appearance. Do not lay tile having pattern, colour 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. User 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.

3.9. Install bases in lengths as long as possible, not in runs made up of short lengths. Cut and 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 them also on columns and fitments within 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.

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 Painted Drywall
- 2 coats of acrylic latex eggshell finish

Interior New Painted Concrete Block

- 1 coat of Moorcraft block filler or equal
- 2 coats of acrylic latex eggshell finish

Interior Existing Concrete Block

- 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. 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
  - Model 600T, 16" x 30" tilting mirror for each sink location. Watrous or equal.
- Grab Bars for each handicap stall
  - 1" O.D. 18 ga. chrome plated with mandrel ends fully knurled to 4" from bends secured with 2-1/2" non-corrosive screws to solid backing capable of supporting 500 lbs. pull including:
    a) 2' long at 6" above toilet tank
    b) 2'-6" horizontal/vertical components with vertical mounted 6" off front end of toilet seat

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

- One surface mounted soap dispenser - 1 per washroom
- One surface mounted toilet tissue dispenser - 1 per washroom
- One surface mounted towel waste container – 1 per washroom

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

APPENDIX

RENOVATIONS TO ST. PETER CSS, PETERBOROUGH — **Wilcox Architects Inc.** **April 2018**

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name						ALL NEW UNLESS OTHERWISE NOTED			ALL NEW UNLESS OTHERWISE NOTED		
133	LIBRARY RES. RM.	EX CB + NEW DW/ PT	EX CB + NEW DW/ PT	EX CB + NEW DW/ PT	EX CB + NEW DW/ PT	PT DW BAND	MT	V	----------	AT DW	----- PT	PT BLKHDS
133A	LIB. ENTRY	PT EX CB COL	EX/ NEW CB + NEW DW/ PT	PT EX CB	NEW DW/ PT/ PT EX CB ABOVE	PT EX DOORS/ SCREEN PT DW BAND	MT	V	----------	AT DW	----- PT	PT BLKHDS
133B	NEW QUIET STUDY	NEW DW/ PT	EX CB/PT	EX CB/ PT	PT EX CB + NEW DW/PT	PT EX HM WINDOW	MT	V	----------	AT	-----	-----

APPENDIX

RENOVATIONS TO ST. PETER CSS, PETERBOROUGH

Wilcox Architects Inc.
April 2018

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name	ALL NEW UNLESS OTHERWISE NOTED					ALL NEW UNLESS OTHERWISE NOTED			ALL NEW UNLESS OTHERWISE NOTED		
133C	EX. SEM. RM.	-----	EX CB/ PT	NEW DW/ PT	EX DW/PT (ABOVE)	---------	MT	V	----------	AT	-----	-----
133D	EX SEM. RM.	EX CB + DW/PT	EX CB/PT	-----	EX DW/PT (ABOVE)	---------	MT	V	----------	AT	-----	-----
133E	NEW INT. COMP. RM.	EX CB/ PT (ABOVE)	EX CB/ PT (ABOVE)	EX CB/ PT	EX CB/ PT	---------	MT	V	----------	AT	-----	-----
133F	NEW STO.	EX CB/ PT	EX CB/ PT	NEW DW/ PT	EX CB/ PT	---------	MT	V	----------	AT	-----	-----

RENOVATIONS TO ST. PETER CSS, PETERBOROUGH **Wilcox Architects Inc.**
April 2018

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name						ALL NEW UNLESS OTHERWISE NOTED			ALL NEW UNLESS OTHERWISE NOTED		
133G	EX. MECH. RM	ALL -----	EXIST. -----	TO -----	REMAIN -----	---------	-----	-----	----------	-----	-----	-----
133H	NEW B.F. SEM. RM.	EX CB/PT	EX + NEW CB/ PT	EX CB/ PT	EX CB/ PT	---------	MT	V	----------	AT	-----	-----
133I	NEW WORK AREA	EX CB + NEW DW/PT	EX CB/ PT	EX CB/ PT	NEW DW/PT	----------	MT	V	----------	DW	PT	-----
133J	NEW COMP. LAB	EX CB/ PT	EX CB/ PT	EX CB/ PT	EX CB + NEW DW/PT	PT DW BAND	MT	V	----------	DW/ AT	PT	-----
133K	NEW QUIET STUDY	EX CB + NEW DW/PT	EX CB/PT (Above)	EX CB/ PT	EX CB/ PT	---------	MT	V	---------	AT	-----	-----

APPENDIX

RENOVATIONS TO ST. PETER CSS, PETERBOROUGH

Wilcox Architects Inc.
April 2018

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name	ALL NEW UNLESS OTHERWISE NOTED					ALL NEW UNLESS OTHERWISE NOTED			ALL NEW UNLESS OTHERWISE NOTED		
134A	NEW B.F. QUIET ROOM	EX CB/ PT	EX DW/ PT (ABOVE)	EX DW/ PT (ABOVE)	EX CB/ PT	PT DOOR + SCREEN	MT	V	----------	AT	-----	-----
141	NEW EXERCISE ROOM	-----	-----	-----	-----	PT AT CB REPAIR	EX VT	EX V	---------	EX AT	-----	PT NEW DW BLKHD
145	EX WEIGHT ROOM	-----	-----	-----	-----	PT AT CB REPAIR	EX VT	EX V	----------	EX AT	-----	PT NEW DW BLKHD
147	NEW HEALTH ROOM	EX CB/ PT	NEW CB/ PT	EX CB/ PT	EX CB/ PT	---------	VT	V	----------	AT	-----	-----

APPENDIX

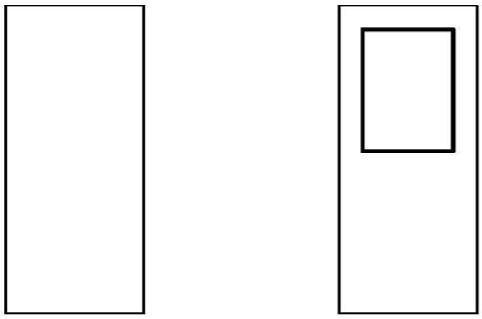
RENOVATIONS TO ST. PETER CSS, PETERBOROUGH

Wilcox Architects Inc.
April 2018

ROOM FINISH SCHEDULE

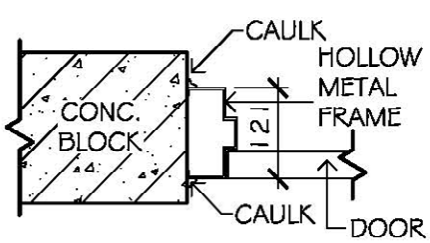
		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name	ALL NEW UNLESS OTHERWISE NOTED					ALL NEW UNLESS OTHERWISE NOTED			ALL NEW UNLESS OTHERWISE NOTED		
147A	NEW B.F. W/C	NEW CT	NEW CT	NEW CT	NEW CT	---------	CT	CT	----------	AT	-----	-----

DOOR TYPES

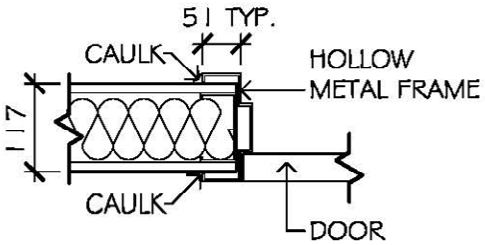


TYPE A TYPE B

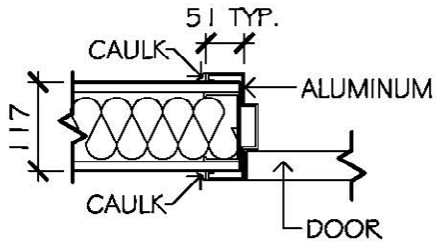
FRAME TYPES



TYPE A



TYPE B



TYPE C

ST. PETER'S CATHOLIC
SECONDARY SCHOOL RENOVATIONS

APPENDIX

RENOVATIONS TO ST. PETER CSS, PETERBOROUGH **Wilcox Architects Inc.**
April 2018

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DOOR SCHEDULE

DOOR					FRAME			COMMENTS
No.		**Type**	**Mat.**	**Fin.**	**Type**	**Mat.**	**Fin.**	
1	965 X 2150	B	AL	-----	C	AL	-------	----------
2	965 X 2150	B	AL	-----	C	AL	-------	----------
3	965 X 2150	B	AL	-----	C	AL	-------	PART OF WINDOW
4	965 X 2150	A	HM	PT	A	HM	PT	---------
5	965 X 2150	B	AL	-----	C	AL	-------	PART OF WINDOW
6	965 X 2150	B	HM	PT	A	HM	PT	¾ HR. RATED
7	965 X 2150	B	HM	PT	A	HM	PT	----------
8	965 X 2150	B	HM	PT	A	HM	PT	¾ HR. RATED/ PART OF HM SCREEN
9	965 X 2150	A	HM	PT	A	HM	PT	¾ HR. RATED

RENOVATIONS TO ST. PETER CSS, PETERBOROUGH April 2018

HARDWARE LIST

Door #1 – Ex Library Entry to New Quiet Study 13323
All hardware by Aluminum Division except:

1	ASA Cylinder	6673 X 626

Door #2 – Library to New Work Area
All hardware by Aluminum Division except:

1	ASA Cylinder	6673 X 626

Door #3 – Library to New Computer Lab
All hardware by Aluminum Division except:

1	ASA Cylinder	6673 X 626

Door #4 – Library to Storage Room 133F

1	Lever Latchset	28 X 10U15 X LL X 626		
3	Hinges	FBB168	114 X 101	C15
1	Floor Stop	6 SH 218		

Door #5 – Library to New Quiet Study 133K
All hardware by Aluminum Division except:

1	ASA Cylinder	6673 X 626

HARDWARE LIST

Door #6 – Existing Forum to new B.F. Seminar Room

1	Lever Classroom Lockset	28 X 10G37 X LL X 626		
3	Hinges	FBB168	114 X 101	C15
1	Electric Strike Fail Safe	1006 X FS X CLB X 630		
1	Power Operator	SW 200i X SINGLE HSG X628 plus SW200 i add for inswing arm Operator to be installed by a factory trained installer. All wiring to be run by the electrical subtrade + 2 push button controls.		

Door #7 – New B.F. Quiet Room to Existing Marketing

1	Lever Classroom Lockset	28 X 10G37 X LL X 626		
3	Hinges	FBB168	114 X 101	C15
1	Floor Stop	6 SH 218		

Door #8 – Existing Form to New B.F. Quiet Room

1	Lever Classroom Lockset	28 X 10G37 X LL X 626		
3	Hinges	FBB168	114 X 101	C15
1	Electric Strike Fail Safe	1006 X FS X CLB X 630		
1	Power Operator	SW 200i X SINGLE HSG X628 plus SW200 i add for inswing arm Operator to be installed by a factory trained installer. All wiring to be run by the electrical subtrade + 2 push button controls.		

HARDWARE LIST

Door #9 – New B.F. Washroom to Existing Corridor

1	Lever Privacy Set	28 X 10U65 X LL X 626
3	Hinges	FBB168 114 X 101 C15
1	Electric Strike Fail Safe	1006 X FS X CLB X 630
1	Power Operator	SW 200i X SINGLE HSG X628 plus SW200 i add for inswing arm Operator to be installed by a factory trained installer. All wiring to be run by the electrical subtrade.
1	Occupied & Emergency Kit Recess	#OCC – 1 – EMR – R KIT To be installed to control the privacy of the occupant, in conjunction with the auto door operator as well as provide emergency response capabilities, including alarms inside and outside of washroom.

Kit includes:

2	Ea Button CM45/4 X 630 (Recessed Boxes By Others)	1 Ea Push to Lock Button CM45/8 X 630 (Recessed by Others)
1	Ea occupied sign 4 ¾" x 9" White Surface Mount	1 Ea Door Contact CX-MDC
1	Ea Controller CX-33	1 Ea Push for Emergency Button CM-450/R12 (Recessed by Others)
2	Ea Assistance Requested CM-AF501SO (Recessed Boxes by Others)	1 Ea Transformer 24Vac
1	Ea Power Controller CX-PS13 V3	1 Ea Sign CM-SE21A
1	Floor Stop	6 SH 218
1	Kick Plate	232 W X 626

APPENDIX
LIST OF ABBREVIATIONS

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		

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

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 Mechanical Unit
MIN	Minimum		
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

S	South
S.A.B.	Sound Attenuation Blanket
SAN.	Sanitary
SC	Solid Core
SCR	Screen
SEP	Separation
S/G	Single Glazing
SHLVS	Shelves
SHTG	Sheating
S.O.G.	Slab On Grade
S.P.	Splash Pad
S.P.M.	Single Ply Membrane
S.S.	Stop Sink
ST	Stain
STD	Standard
STL	Steel
STR	Stringers
STRUCT`L	Structural
ST.S	Storm Sewer
T/	Top Of
T.B.	Thermal Broken
T. & B.	Top And Bottom
TEX	Textured
T. & G.	Tongue & Groove
T.T.	Terrazo Tile
T. & WD	Towel & Waste Disposal
TYP	Typical
U/C	Under Counter
U.O.N.	Unless Otherwise Noted
UPR	Upper
U/S	Underside
V.	Vinyl
VAL	Valance
VAN	Vanity
V.B.	Vapour Barrier
VERT	Vertical
V.T.	Vinyl Tile
V.W.C.	Vinyl Wallcovering
W/	With
W.C.	Water Closet
WD	Wood
WIN	Window
W.F.	Wood Fibre
W.V.	Water Valve