SPECIFICATIONS

LIBRARY & ADMIN RENOVATIONS TO ST. PAUL'S CATHOLIC ELEMENTARY SCHOOL PETERBOROUGH FOR PETERBOROUGH VICTORIA NORTHUMBERLAND & CLARINGTON CATHOLIC DISTRICT SCHOOL BOARD

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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**

Includes for renovation of the existing library area to provide a New Admin section as well as reduced library separating this wing from the main entry corridor. Involves demolition, new partitions, door, windows, finishes, cabinetry, and mechanical/electrical systems.

END OF SECTION 01010

1. Cash allowances shall be expended only on the Architect's/owner's written instructions.

2. The Contractor's charges for overhead and profit on account of Cash Allowance shall be included in the Contract Amount in accordance with G.C. 4.1 of the General Conditions of the Contract as amended.

3. Credit the Owner with any unused portion of Cash Allowances in the statement for final payment.

4. If a test made under payment by a specified allowance proves that the material tested is unacceptable, then the subsequent testing and replacement materials shall be at Contractor's expenses.

5. Include in the stipulated sum quoted a single Cash Allowance in the amount of $20,000.00.
   - removal and reinstallation of existing smart board projectors/smart boards
   - computer and telephone wiring
   - removal and reinstallation of existing sound system/speakers in classrooms
   - P.A. system
   - Relocation and wiring

   Return any surplus equipment to the owners.

TOTAL $20,000.00

END OF SECTION 01020

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 as indicated (some sheet flooring will remain)
- cabinetry/millwork
- doors/frames
- fitments
- acoustic tile ceilings/lighting
- mechanical systems/ductwork
- partitions and new openings
- sections of load bearing exterior walls for new openings and new lintels and repair by section 04200
  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

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, 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 infill and repair of existing masonry to new exterior openings as well as existing interior walls. Tooth back into existing walls.

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

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 cabinetry to have plastic laminate Hard Rock Maple finish over particle board. All exposed edges to have 3mm PVC edge banding. All interiors of doors to be classified as exposed. Use 3/4" for all shelving, door/drawer fronts and gables. Use 1/2" for drawer bottoms and cabinet backs.

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	PULLS	4" long stainless steel functional pull 3311 BP221170 Richelieu complete with screws
	DOOR HINGES	125 Degree Clip top BLUMOTION Soft Close Hinges with Dowel 71B7580D180 and adjustable Cam Mounting Plates 173H710180 and Hinge Cover Plates
	DRAWERS	Blum BLUMOTION Movento, Full Extension Concealed undermount, soft closing drawer slides.
	DOOR BUMPER	Clear soft adhesive type (2 per door)
	RECESSED PILASTER	K & V #255 ZC
	PILASTER CLIP	K & V #256 ZC
	COAT ROD	K & V #770-5 CHR
	COAT ROD FLANGES	K & V #764 CHR
	COAT ROD SUPPORT	K & V #1195

2.5 Doors for teacher and maker cabinets and vertical storage closets to be hollow core with face veneer sliced yellow birch select grade. Prep and install hardware of 3 hinges FBB168 and lever lockset 28x10 GLLx626 for each. Stain and lacquer doors to match cabinetry.

3. EXECUTION

3.1 Include for all finishing work indicated on drawings.

3.2 Edge all doors, shelves, drawer fronts etc. in PVC banding with adhesive. 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.

3.7 Install all accessories in all locations noted supplied by Division 10.

END OF SECTION 06400

1. GENERAL

1.1. Conform to the General Conditions as applicable.

1.2. Performance of installed insulation shall comply with requirements of O.B.C. Section 9.26, Thermal Insulation and Vapour Barriers, or greater as may be indicated.

2. MATERIALS

2.1. Rigid Insulation – 2" extruded with Z bar-clip system

2.2. Vapour Barrier - 6 mil polyethylene to CAN 2-51-33-M77

2.3. Tape - pressure sensitive tape 2" wide

3. EXECUTION

3.1. Examine preceding work before commencing installation to ensure that space is provided for insulation in thickness as indicated and specified, and to ensure that specified performance requirements are met, supports are adequate, surfaces for adhesive applied insulation are smooth, free of projections, dirt and grease, and are otherwise acceptable for adhesive application.

3.2. Install insulation in locations indicated on drawings and where required to completely envelop insulated areas with no breaks or voids in continuity of insulation, or in air and vapour barriers.

4. GENERAL

4.1. Comply with General Requirements Division 01.

4.2. Thoroughly clean all sealant smears from adjacent surfaces upon completion.

4.3. Proven written warranty covering making good of defects in materials and workmanship for a period of 2 years.

4.4. Execute work in accordance with manufacturer's instructions.

5. MATERIALS

5.1. To O.B.C. Section 9.28 and CAN2-19.24-M80.

5.2. Equivalent to Tremco products or equal.

5.3. Type 1: Two component urethane for moving joints.

5.4. Type 2: One component, urethane base solvent covering for static joints.

5.5. Sealant Backing: Extruded, foamed, close cell, round polyethylene rod 25% wider than joint.

6. EXECUTION

6.1. Exterior Caulking:

- control joints
- metal at wood
- metal to metal
- masonry at wood
- concrete at wood
- perimeter of steel door and screen frames inside and outside
- pipes and equipment passing through exterior walls
- full length of exterior door thresholds
- perimeter of louvers - inside and outside

6.2. Interior Caulking:
- exposed control joints
- metal at wood
- concrete at wood
- concrete at metal

6.3. Joints to be caulked shall be cleaned of dust, oil, grease, water, frost, loose mortar and other foreign matter. Cleaning shall ensure a clean, sound base surface for sealant adhesion.

6.4. When air temperature is below 40 deg. F. consult sealant manufacturer for recommendations regarding application.

6.5. Joints ¼" or more wide shall be packed with pre-moulded backup rope. Install a bond breaker behind sealer in joints less than ¼" in width. Caulked joints must have pre-moulded back or bond breaker behind sealant.

6.6. Apply sealant under pressure with hand actuated guns. Gun nozzle shall be of proper size to fit and fill and seal joint.

6.7. Remove all excess materials and debris from site.

END OF SECTION 07900

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 and co-ordinate for all hardware – installation by Finished Carpentry Section 06400.

2. MATERIALS

2.1. Hollow metal door frames and screens 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 per door schedule on drawings.

2.4. Rated glazing to be fire lite.

3. EXECUTION

3.1. Installation of frames by Division 9. Doors by Division 6.

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**

.1 Aluminum Finish: All aluminum extrusions shall be anodized to CAN3-A440-M90 Class 1, 18 mm.(0.004") thick. Finish to be clear anodized – see drawings for locations. Note use anodized aluminum framing for all locations – see drawings for finish type/locations.

.2 Glass Units: Shall be hermetically sealed Low E argon insulating glass units fabricated in accordance with CAN2-12.8 M76 (25mm) for all window locations 5 mm annealed clear glass for interior light and 5 mm annealed clear glass for exterior light.

.3 Foam Sealant: Shall be Polycel as manufactured by I.F. Industries (416) 827-6538.

.4 Caulking: Shall be "Dymeric" by Tremco, EP-6000 by CGE, or approved equal multi-component chemical curing sealant meeting CAN2-19.24-M80.

.5 Windows:

.1 Aluminum windows shall be **Windspec 5400** Series or equal, 2" wide thermally broken framing, curtain wall window sections typically for all windows (see drawings for locations, frame depths and finishes) with thermally broken hopper vents, bottom hinged, projected in, placed at bottom of window as indicated on drawings.

.2 Each opening vent shall be equipped with (2) heavy duty Anderberg arms, one (1) allen key operated security lock, standard 4-sided weather stripping and aluminum framed aluminum mesh insect screen on exterior side of vent, complete with two(2) CAM handles for lower operating units. Limits all operator opening to maximum 200 mm.

.3 Provide matching extruded aluminum sills to sizes and profiles as detailed. Provide matching L shaped end caps at each end and covers at 135 degree junctions.

.4 Insect Screens – all locations for all operators
Screen cloth shall be furnished by manufacturer. The screen cloth shall be aluminum mesh, factory installed in prebowed tubular extruded aluminum held securely into position by means of vinyl spline. Screen cloth shall be mounted in a manner to allow easy replacement.

.5 Doors
Door to be Windspec Series Medium Stile non-thermally broke door or equal, glazing with 6 mm thick tempered low E sealed units (3' x 2" x 7'-0"). Door to be equipped with continuous hinge, applied floor or wall stops as applicable. Doors to have classic push/pull; 7" wide low profile threshold, and metal-backed cloth pile. Weather stripping at jambs/head. Use integral 8½" solid rail.
Cylinder to be provided by section 08700.

- Door #1
  - re install existing power operator/controls/electric strike for east leaf + cylinder
  - Provide and install 1 LCN4041 HP closer for west leaf
  - Provide and install Sargent 8500 series narrow design rim type clear anodized panic device for each
- Door # 2
  - re install existing power operator/controls
- Door #11
  - Provide and install 1 LCN 4041 HP closer + cylinder/Sargent 8500 series narrow design rim type clear anodized panic device

3. **EXECUTION**

3.1. Set in correct location, level, square, plumb and proper alignment to other work using appropriate finishing components with sills. Foam all perimeters completely.

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. Submit affidavits that products meet CGSB standards if requested.

1.3. Proceed with glazing when conditions are above minimum required by manufacturer.

1.4. Provide 10 year extended warranty for insulated glass and installation against loss of seal and breakage (other than accidental).

2. MATERIALS

2.1. Plate and float to CAN-12.3M76 glazing quality.

2.2. Single clear plate tempered glass to interior doors and screens.

2.3. Glazing materials:

- colour to match sash
- polysulphide sealant - 2 part
- acrylic sealant - 1 part
- glazing tape - equivalent to Tremco 440

3. **EXECUTION**

3.1. Thoroughly clean all glazing rebatts.

3.2. Do not set glass without glazing beds or gaskets.

3.3. Thickness of glass to O.B.C. Section 9.6, 9.7.

3.4. Cut glass to fit openings with suitable clearances.

3.5. Apply tape bedding, spaces and stops in accordance with manufacturer's recommendations.

3.6. Mark glass after installation to indicate its presence.

3.7. Replace defective glass prior to turn over of building.

3.8. Clean glass following installation to remove stains, deposits and other foreign materials covered by glazing work.

END OF SECTION 08800

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 suspended drywall ceilings and curved bulkheads – see ceiling plan.

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 2' grid assembly – see ceiling plans for locations.

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 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)
- Cut to suit grid pattern as per reflected ceiling plan.

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. Run ceilings over top of curved drywall bulkheads.

END OF SECTION 09510

1. GENERAL

1.1. Comply with requirements of Division 01. Only trades with minimum 5 years proven experience and training from the manufacturer are permitted to install these products for this project. Provide 10 year Heavy Commercial Warranty for products.

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, and finishing instructions for each installed material to Contractor for his information in final cleaning 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 to be 2.0 mm thick Classic Mystique PUR by Polyfor or equal. Colour(s) to be Quartz 1400 NCS S2500-N to match existing. Provide material from same production run for one area, and from same manufacturer for entire project.

2.2. Resilient Base: Coved bottom, ¼" 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. See drawings for locations and repair areas.

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 stone or power grind to remove any nibs or ridges. 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. Roll out flooring face up and cut approximately to size. Leave for 24 hr. to condition before installation.

3.7. Apply adhesive using a notched trowel over an area that can be laid during the open time.

3.7. Install flooring strictly in accordance with the manufacture's recommendations. Cut seams before adhesive is applied. Roll all sheets in both directions. Chemical weld all seams with color matching material.

3.8. Butt joints closely and cut and fit flooring around door frames, openings in floor.

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 Conform to General Instructions as applicable.

1.2 Submit shop drawings for review prior to fabrication.

1.3 Supply to Division 6 for installation.

2. **MATERIALS**

2.1 Whiteboards & Tackboards - based on Architectural School Products or equal - to sizes noted on drawings.

Whiteboards: shall be ASP Porcelain writing surface e3 ceramic steel 11 mm thick impregnated sound absorbing fibreboard core with 28 gauge zinc coated steel back sheet. Sandwich panel shall be factory laminated under pressure using waterproof adhesive. Use 14 gauge x 25 mm wide steel splines and extruded PVC slotted inserts at joints to ensure closely aligned seams.

Tackboards: shall be 6mm natural cork, tan in colour, factory laminated under heat and pressure to 6mm particleboard.

3. **EXECUTION**

3.1 Install all equipment as above in locations as noted on drawings level and securely to substrates strictly in accordance with the manufacturer's recommendations.

END OF SECTION 10100

HARDWARE LIST

Door #1 – Ex to New Vestible 101

All hardware by Section 08520 Aluminum windows except ASA cylinder 6673X626.

Door #2 – New Vestible 101 to Ex Corridor 102

All hardware by Section 08520 Aluminum windows.

Door #3 –New Vestible 101 to New waiting 103

1	Lever Storeroom Lockset	28 X 10G04 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. c/w buttons

Door #4 – Ex corridor to New Mechanical Closet 105

1	Lever Storeroom Lockset	28 X 10G04 X LL X 626
3	Hinges	FBB168 114 X 101 C15
1	Closer	440 PX X 689

Door #5 –New General office 104 to New Copy Rm 100

1	Lever Lockset	28 X 10G04 X LL X 626
3	Hinges	FBB168 114 X 101 C15
1	Floor Stop	66H218

Door #6 – New General Office 104 to New Principle Office

1	Lever Lockset	28 X 10G04 X LL X 626
3	Hinges	FBB168 114 X 101 C15
1	Floor Stop	65H218

Door #7 – Ex Library 110 to New Quiet Rm 108

1	Lever Latch Set	28X10 U15XLLX626
3	Hinges	FBB168 114X101 C15
1	Floor Stop	65H218

Door #8 - Ex Library 110 to New Quiet Rm 109

1	Lever Latch Set	28X10 U15XLLX626
3	Hinges	FBB168 114X101 C15
1	Floor Stop	65H218

Door #9 – Ex Corridor 102 to Ex Library 110

1	Lever Storeroom Lockset	28 X 10G04 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. c/w buttons

Door #10 – Ex Corridor to New Mechanical Closet 111

1	Lever Storeroom Lockset	28 X 10G04 X LL X 626
3	Hinges	FBB168 114 X 101 C15
1	Closer	440 PX X 689

Door #11 – Ex Library to Exterior

All hardware by Section 08520 Aluminum Windows Except

- ASA Cylinder 6673 x 626

Door #12 – Ex Library to New Quiet Rm 112

1	Lever Latch Set	28X10 U15XLLX626
3	Hinges	FBB168 114 X 101 C15
1	Floor Stop	65H218

Door #13 – Ex Library to Ex Work Sto Rm 113

All existing hardware to remain.

Door #14 – Ex Corridor to New Mechanical Platform

1	Lever Storeroom lockset	28X10 GO4XLLX626
6	Hinges	FBB168X14X101 C15
2	Vertical flush pins for inactive leaf	

LIBRARY & ADMIN RENOVATIONS TO ST. PAUL'S CES, PETERBOROUGH
PETERBOROUGH VICTORIA NORTHUMBERLAND & CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. Name	Room #						NEW U.O.N.			NEW U.O.N.		
NEW VEST	101	EX DW/PT	NEW DW +EX BRICK/PT	NEW DW/ PT	EX BRICK/PT	PT DW SOFFIT ABOVE DOOR 3	V	V	----------	NEW DW/EX AT	PT	HT-SEE PLANS
EX CORR	102	NEW DW/PT	NEW DW + EX BRICK/PT			PT DW SOFFIT ABOVE DOOR 9 + SOUTH END	V	V	----------	NEW DW/EX AT	PT	HT-SEE PLANS

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PETERBOROUGH VICTORIA NORTHUMBERLAND & CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. Name	Room #	NEW U.O.N.					NEW U.O.N.			NEW U.O.N.		
NEW WAIT	103	NEW DW/PT	----------	NEW DW/PT	EXCB + NEW DW/PT	----------	EXT NEW V	V	PATCH V – SEE PLANS	AT	-------	9' HT
NEW GEN OFFICE	104	NEW DW/PT	NEW DW/PT	NEW DW/PT	--------	----------	EXT NEW V	V	PATCH V – SEE PLANS	AT	-------	9' HT
NEW MECH'L CLOSET	105	NEW DW/PT	NEW DW/PT	NEW DW/PT	NEW DW/PT	----------	V	V	----------	-------	--------	NO CLG

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ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. Name	Room #						NEW U.O.N.			NEW U.O.N. 2743		
NEW COPY ROOM	106	NEW DW/PT	NEW DW/PT	NEW DW/PT	NEW DW/PT	----------	EX V	V	----------	AT	--------	9' HT
NEW PRINC. OFFICE	107	NEW DW/PT	NEW DW/PT	NEW DW/PT	NEW DW/PT	----------	EX V	V	----------	AT	--------	9' HT
NEW QUIET RM	108	NEW DW/PT	NEW DW/PT	NEW DW/PT EX BRICK	NEW DW/PT	----------	EX V	V	----------	AT	--------	9' HT

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ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. Name	Room #						NEW U.O.N.			NEW U.O.N. 2743		
NEW QUIET	109	NEW DW/PT	NEW DW/PT	NEW DW/PT	NEW DW/PT	---------	EX V	V	----------	AT	-----	9' HT
EX LIB./R.C.	110	NEW DW/PT	NEW DW/PT	EX CB/PT	NEW DW + EX CB/BRICK /PT	--------	EX V	V	---------	NEW DW/ AT	PT	PT BLKHDS-SEE PLANS FOR HTS
NEW MECH'L CLOSET	111	NEW DW/PT	NEW DW/PT	NEW DW/PT	NEW DW/PT	---------	V	V	----------	--------	-----	NO CLG
NEW QUIET	112	NEW DW/PT	NEW DW/PT	NEW DW/PT	NEW DW/PT	------	EX V	V	----------	AT	-----	9' HT

ROOM FINISH SCHEDULE

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. Name	Room #						NEW U.O.N.			NEW U.O.N. 2743		
EX WORK/ STO	113	EX CB/PT	EX CB/PT	EX CB/PT	EX CB/PT	----------	EX VT	EX V	----------	EX AT	--------	8' HT
EX CORR	114	---------	NEW DW/PT	---------	---------	----------	EX V	NEW + EX V	NEW BASE WALL AT DOOR 10	EX AT	-------	8'H T

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	EPXY	Epoxy

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		

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

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