APPENDIX G - SPECIFICATIONS & DRAWINGS

BID DOCUMENTS AND SPECIFICATIONS

FOR

CALEDON CENTRAL PS, CALEDON INTERIOR DOOR REPLACEMENT

Prepared for:
Peel District School Board
933 Central Parkway West
Mississauga, ON L5C 2T9
Attention: Sameer Ansary

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Final

SG-459-22/23-1
December 5, 2024

1 OBJECTIVE

1.1 Work under this project will include replacing interior doors and frames where indicated on the Caledon Central Public School Interior Door Replacement Drawings. Replacement doors included under the base bid are shown on Drawings No. R200 and R201 and the Door Schedule on R202-R203.

1.2 Provide shop drawings for the doors within 2 weeks after project award. After approval of all submittals, manufacturing shall begin immediately upon approval of engineered shop drawings, general installation shall begin immediately upon approval of mock-up.

1.3 The work shall commence upon award of the bid and proceed in a single phase of work until completion. All work shall be performed on site from 7AM to 9PM Monday to Sunday during the school summer holiday, and from 4PM to 9PM Monday to Friday and 7AM to 9PM on weekends and holidays after the summer holiday. All work shall be completed by **August 23, 2025**. In the event that all work cannot be completed by **August 23, 2025** the awarded contractor will be responsible to continue work at alternate times so as not to impact the daily functioning of the school. Restrictions of work may vary and shall be determined during the pre-construction meeting. All remaining work must be completed no later than **December 31, 2025**. General Contractor to include all costs that may result in extended after hour work. There will be no extra claims/premium rates allowed.

1.4 Contractor to abide with local noise by-laws. The work shall be performed according to the start date and duration given in the bid document.

1.5 Provide Consultant and PDSB with the work schedule indicating lead time for shop drawings, with the on site start date and completion date as per the bid document.

2.1 GENERAL

2.1.1 Mobilization and Demobilization

1. Mobilize all labour, equipment, temporary facilities, and hoarding required to carry out the work of the Bid Document. All scaffolding must be reviewed and bear the stamp of a licensed Professional Engineer practicing in the Province of Ontario.
2. Open dumpsters shall not be permitted for fire safety. All dumpsters shall be covered and enclosed in 6ft. chain link fence to prevent access into the bins during off work hours.
3. Upon completion of the project, remove all equipment and materials from the site. Clean the site to remove all dirt and debris from the work area and adjacent parking lot (including a magnetic sweep to pick-up all fasteners and metallic debris). Clean all doors within the work area. Correct all deficiencies caused by the work and make good any landscaping affected by the work.

2.1.2 Shop Drawings & Submittals During Construction

1. Prior to general fabrication, as identified within the technical sections of these specifications, submit to the Consultant and Owner all required shop drawings and requested technical literature within two (2) weeks (15 business days) of the pre-construction, start up meeting or project award.

2.1.3 Mock-Up

At a location selected by PDSB, complete a full door installation, including hardware for review and approval by the Consultant and PDSB.

2.2 ASBESTOS AND PCB ABATEMENT

2.2.1 All abatement work is to be carried out by licensed abatement Contractors: PDSB approved abatement Contractors are as follows:

1. Caliber Environmental – Contact: Michael Ball (416-997-6074)
2. Furcon Environmental – Contact: Sherry Lynn (905-741-9686)
3. Edge Environmental – Contact: Nabil Atrach (416-574-4455)
4. or approved alternate.

Provide the Consultant with minimum 72 hours notice in writing before abatement work begins.

2.2.2 Asbestos and PCBs have been identified in some of the existing materials. Refer to Appendix A and B for a summary of the locations and the requirements for abatement. Abatement is to be included as part of this project. The successful bidder is required to fully understand the environmental report before commencing the work.

2.3 DOORS

2.3.1 Replace Doors

1. To the extent shown on Drawings No. R200 and R201 and remove and dispose of the doors and frames/surrounds (where applicable), where new doors D1 to D88 are indicated.
2. Supply and Install new doors and frames as indicated in the Interior Door Schedule as per Drawings. Supply and Install door hardware as indicated on the Hardware Schedule (Appendix D). All new doors and frames shall be painted prior to being delivered to site as per Section 09 91 20 – Painting Steel.

1. Interior Doors

Supply and install new hollow metal doors and frames as indicated on Drawings, R400 to R503 , Door Schedule, and as per Section 08 10 10 - Hollow Metal Doors and Frames of the Specification. The installation is to include all hardware and thresholds at all doors. Door and side-lites to be single glazed glass. Frame location and frame depth to match existing frames unless indicated otherwise, with proportions to be as outlined in the drawings.

2. Door Hardware

Contractor to supply and install door hardware as per Appendix D – Hardware Schedule. In case of any discrepancies in the Hardware Schedule, Contractor is

to immediately notify the Consultant and request clarification prior to proceeding with the installation. All hardware should be installed as per manufacturer's instructions by a qualified hardware installer.

2.4 MISCELLANEOUS

2.4.1 Where present, disconnect and subsequently reconnect existing emergency lighting electrical conduit in the head of the door to facilitate the work, and disconnect and subsequently reconnect security systems at all doors. Where new frames are being installed, conduits at doors must run within the new frames and not be surface mounted.

2.4.2 Remove and salvage the existing barrier free door operators, except where indicated on the Door Schedule.

2.4.3 Remove, salvage and subsequently reinstate any sensors, exit signs, lights, fire alarms, etc. mounted on the doors.

2.4.4 Perimeter Sealants - Install building sealants within work area.

2.4.5 Damage

Any damage (as determined by the Consultant) to the interior finishes, baseboard heating elements/covers, electrical chases, tiles, ceiling finishes, drywall/plaster, flooring, etc. shall be repaired at the Contractor’s expense with no cost to the PDSB. Notify the Consultant for review of such locations immediately upon discovery. Repairs to locations where notice is not provided shall be paid for at the Contractor’s expense.

2.4.6 All Other Items

1. Examine job conditions before commencement of work. Commencement of work will denote acceptance of existing conditions unless the Owner/Consultant has been notified in writing of unacceptable conditions prior to commencement.
2. Include for all labor, equipment, materials and access required to complete the project not otherwise itemized above.

END OF SECTION 01 00 00

1 GLAZING

1.1.1 IGMAC Certificate – Submit up to date IGMAC certificate from IGU manufacturer.

1.1.2 If proposing any glazing products or components other than those specified, provide technical data sheets showing comparable performance.

2 DOORS

2.1 SHOP DRAWINGS

Submit shop drawings to Consultant for review. Doors and frames to be coded as per schedule. The shop drawings shall include:

2.1.1 Detail method of assembly, reinforcing, fastening, field jointing, splicing, stop securing.

2.1.2 Type, thickness and gauge of all materials.

2.1.3 Material and quality of all finishes.

2.1.4 Doors and frames bearing ULC labels for ratings and opening classifications.

2.1.5 Identify, mark and key for site locations. Markings to be concealed when hollow metal items are installed and finished.

2.1.6 Legend indicating all abbreviations and symbols

2.1.7 Layout of all typical doors, including overall height and width, size of IGUs/ vision units/ spandrel panels in the assembly.

2.1.8 Door swing

2.1.9 Proposed anchorage to surrounding walls and structure, including location, type, size, model and manufacturer of fasteners. Design anchorage to meet or exceed local Building Code (current edition) minimum requirements

2.1.10 Hardware schedule for each door

2.1.11 Glazing details including, but not limited to, glass and IGU thicknesses, description of IGU perimeter seals and spacer materials.

2.2 COLOUR CHARTS FOR THE DOOR SLAB AND FRAME PAINT

2.3 MOCK-UPS

2.3.1 After award of bid document and prior to start of general installation, install a mock-up of all typical doors for review by the Consultant and the Owner. The mock-up shall include all hardware, perimeter seals and interface details.

1. Mock-up to be representative of the work for the remainder of the project. The mock-up shall be used as a reference for quality of the work to be expected for the duration of the project.
2. Mock-up shall be installed by the same installers who will perform the general installation.

3. Any deviations from the shop drawings, if found to be necessary due to site conditions, shall be reviewed by the engineer who prepared the shop drawings and revised shop drawings shall be provided prior to general installation.
4. Arrange for the Owner and the Consultant to be present during installation of the mock-up, to facilitate review of components that may be concealed once the installation is complete.
5. Mock-up installation and testing shall be complete, to the satisfaction of PDSB and the Consultant, prior to proceeding with general installation.

3 WARRANTIES

3.1 GENERAL

3.1.1 The contractor shall provide a written guarantee for all work against defects in labour, materials and workmanship for a period of two (2) years unless otherwise noted.

3.2 REMOVALS AND DEMOLITION

3.2.1 Repair and/or replace any work judged defective by the Board Designee/Engineer and any other work damaged due to faulty or defective work at no additional cost during the term of the warranty.

3.3 HOLLOW METAL DOOR AND FRAME

3.3.1 The contractor shall provide a manufacturer’s warranty for the hollow metal doors and frames against defects in materials and workmanship for a period of two (2) years. The written warranty shall be in a form approved by the owner. The warranty shall cover all components of the door and frame assembly.

3.3.2 All hollow metal doors and frames shall be warranted for a period of ten (10) years against rust perforation and loss of paint adhesion, when installed and finish painted to the manufacturer’s recommendation.

3.4 HARDWARE

3.4.1 The Supplier and contractor shall provide a written warranty for hardware finish and installation against defects in materials and workmanship for a period of three (3) years. The written warranty shall be in a form approved by the owner. The warranty shall cover all components of hardware accessories.

3.4.2 The Supplier shall provide a manufacturer’s warranty for the panic devices and door closers against defects in materials and workmanship for a period of three (3) years. The written warranty shall be in a form approved by the owner.

3.5 GLAZING

3.5.1 The Supplier shall provide a manufacturer’s warranty for the insulated glass units against defects in materials and workmanship for a period of ten (10) years. The written warranty shall be in a form approved by the owner. The warranty shall cover all components of the glass units.

3.5.2 The Supplier shall provide a manufacturer's warranty for the standard glass and fire-rated glass against defects in materials and workmanship for a period of five (5) years. The written warranty shall be in a form approved by the owner. The warranty shall cover all components of the glass units.

3.5.3 Supply all materials, labour, tools and equipment to repair and/or replace any work judged defective by the Engineer, and any other work damaged due to faulty or defective, at no additional cost during the term of the warranty.

The warranty shall not be pro-rated over the ten (10) year period for insulated glass units, and five (5) years for standard glass and fire-rated glass.

3.6 SEALANT

3.6.1 The Contractor shall provide a manufacturer's warranty for all work of this section against defects in materials and workmanship for a period of five (5) years. The written warranty shall be in a form approved by the Owner. The warranty shall cover all components of the sealant.

The manufacturer shall supply all labour, materials, tools and equipment to repair and/or replace any material defects, at no additional cost, for a period of five (5) years.

The warranty shall not be pro-rated over the five (5) year period.

END OF SECTION 01 34 00

1 GENERAL

1.1 DESCRIPTION

1.1.1 This Section specifies the materials and methods for work involving sealants.

1.2 REFERENCE STANDARDS

1. ASTM C 510 Standard Test Method for Staining and Color Change of Single- or Multicomponent Joint Sealants.
2. ASTM C 661 Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer
3. ASTM C 719 Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle).
4. ASTM C 794 Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants.
5. ASTM C 920 Standard Specification for Elastomeric Joint Sealants.
6. ASTM C 1135 Standard Test Method for Determining Tensile Adhesion Properties of Structural Sealants
7. ASTM C 1193 Standard Guide for Use of Joint Sealants.
8. ASTM C 1248 Standard Test Method for Staining of Porous Substrate by Joint Sealants.
9. ASTM C 1311 Standard Specification for Solvent Release Sealants.
10. ASTM C1564-04 Standard Guide for Use of Silicone Sealants for Protective Glazing Systems
11. ASTM D 412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers
12. ASTM D 2203 Standard Test Method for Staining from Sealants.
13. ASTM D 2240 Standard Test Method for Rubber Property—Durometer Hardness
14. ASTM D 3960 Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings
15. ASTM E 119 Standard Test Methods for Fire Tests of Building Construction and Materials

1.3 QUALIFICATIONS

1.3.1 Surface preparation and sealant installation to be completed by a recognized specialized applicator who is thoroughly trained and competent in all aspects of this work.

1.4 INSPECTIONS AND TESTING

1.4.1 Notify Consultant for review of surface preparation prior to sealant application and completed sealant application prior to demobilizing from each work area.

1.5 QUALITY CONTROL

1.5.1 Sealant to be applies as specified. Poor sealant application shall be rejected, removed and re-applied at the Contractor's expense.

2 PRODUCTS

2.1 MATERIALS

2.1.1 General

1. Sealant colour to be approved by PDSB during mock-up and to conform to the below:

Table 1 – Colour Matching Requirements

Substrate	Requirement	Comment
Refinished hollow metal door frames	Match the surfaces (new frame colour) to be caulked	Frame colour to be determined by PDSB from standard manufacturer's colours.
New hollow metal door frames	Match the surface colour of the new frame to be caulked.	Frame colour to be determined by PDSB from standard manufacturer's colours.

2.1.2 Solvents and Primers

1. Ensure solvents/cleaners for surfaces to receive sealant are compatible with surfaces to receive cleaner (i.e. solvent). Sealant manufacturer to recommend and approve in writing the cleaner type(s) for each sealant.
2. Ensure primers are recommended by sealant manufacturer in writing for surfaces to be adhered to and are not detrimental to surface to which it comes in contact.

2.1.3 Exterior and Interior Sealants

1. Silicone Sealants
    1. At exterior and interior joints use one of the following Type S, Grade NS, Class 50, moisture curing silicone sealant, conforming to ASTM C 920:

Table 2 - Acceptable Products

Manufacturer	Product
Dow Corning Canada Inc.	Dow CWS
Tremco Ltd.	Spectrem 2
Substitutions	Consideration will be given to proposed substitutions

2.1.4 Glazing Sealants

1. Refer to Section 08 80 00 Glazing Section for glazing sealants.

2.1.5 Accessories

1. Use joint backing to control depth of joint to recommended thickness of sealant and to prevent three-sided adhesion.
    1. Backer Rod: extruded polyolefin foam, non-gassing and have a diameter 25% larger than joint width.
    2. Bondbreaker Tape: pressure sensitive adhesive tape which will not bond to the sealant, alternately apply a wax crayon to the substrate where you do not want sealant to bond:
2. Void Fillers
    1. Unless otherwise specified, insulation for packing into large voids and cavities shall be light weight resilient, inorganic fibrous batts, such as:

Table 3 – Acceptable Products

Manufacturer	Product
Roxul	Flexibatt Batt Insulation 07210
Owens Corning	Fiberglass Pink Friction Fit Batts
Substitutions	Consideration will be given to proposed substitutions

    2. Where specified, use a single component, non-solvent based, polyurethane foam, conforming to CAN/CGSB-51.23 (latest edition), “Spray-Applied Rigid Polyurethane Cellular Plastic Thermal Insulation” such as:

Table 4 – Acceptable Products

Manufacturer	Product
Dow Chemical	Enerfoam
Adfast Corp.	Adfoam 1885-2
Substitutions	Consideration will be given to proposed substitutions

3. Miscellaneous

i) Use clean, white, solvent resistant cloths for solvent cleaning of surfaces prior to application of sealants. Do not use coloured cloths. Change cloths frequently as they become soiled during cleaning.

3 EXECUTION

3.1 GENERAL

3.1.1 Consult and follow the sealant manufacturer's written project recommendations. Notify the Consultant where sealant manufacturer's written requirements conflict with requirements of this Specification. In general, all work shall meet or exceed the more stringent requirement, as agreed with Consultant.

3.2 SURFACE PREPARATION

3.2.1 Remove all existing sealant to expose a sound substrate, without damaging adjacent finishes or causing damage to the substrate.

1. For Concrete and Masonry Surfaces, remove dust, paint, loose mortar and other foreign matter by brushing and vacuuming or blowing air.
2. For Ferrous & Metal Surfaces, remove dust, silt, scale, oxidation and coating by scraping, wire brushing or grinding.
3. For Plastic Surfaces, such as PVC, remove all dust, plastic surface residue and other foreign matter and lightly abrade surface by light sanding with sand paper.

3.2.2 Clean all surfaces to receive sealant by wiping with a clean cloth saturated with recommended cleaning solvent and by following immediately with another clean cloth to wipe the surface dry (2 rag method). Clean only as much area as can be sealed in one 1 hour. If cleaned areas are exposed to rain or contaminants (dirt, dust, etc.), the surface must be cleaned again.

3.3 INSTALLATION

3.3.1 Priming

1. If recommended, prime surfaces to receive sealants as per the sealant manufacturer's written specifications. Follow the sealant manufacturer's written instructions for application and cure time.
2. Take sufficient precautions to prevent staining of adjacent surfaces. Do not apply primer to the backer rod/bond breaker. Where necessary to protect adjacent surfaces, mask surfaces with suitable tape prior to primer and/or sealant installation.
3. If primed areas are exposed to rain or contaminants (dirt, dust, etc.), the surface must be cleaned and re-primed.
4. Protect the surfaces that do not require primer. If primer is installed accidentally on surfaces other than the one specified, it should be removed immediately with a clean cloth dampened with the manufacturer's recommended cleaner.

3.3.2 Joint Backing

1. At large open cavities, fill cavity with approved void filler prior to installation of backer rod.
2. Install backer rod or apply bond breaker tape prior to sealant installation.
3. Tightly install backer rod without stretching, twisting, braiding or puncturing its outer skin.
4. Use an approved installation tool that is blunt surfaced and developed to accurately set backer rod at required depth to achieve recommended sealant profile.
5. Joint backing must be thoroughly dry. Do not install more joint backing/bond breaker tape than can be sealed in one working day.

3.3.3 Sealant Bead Profile

1. Unless otherwise specified by the Manufacturer's written instructions or Drawings, provide sealant with a profile that meets the following criteria:
    1. Width to Depth Ratio: 2:1 profile (sealant depth that is ½ the joint width) where possible, within limits for joint width and depth specified by Manufacturer's written instructions and below.
    2. Depth: Minimum 6mm and maximum 12mm. Adjust sealant depth as required to adhere to minimum and maximum depth tolerances and to provide a 2:1 width to depth profile.
    3. Minimum Joint Width: 10mm, unless otherwise approved by Consultant. Identify any joint widths less than 10mm to Consultant for direction.
    4. Maximum Joint Width: For joints wider than 19mm closure strips, matching adjacent finishes, shall be used to reduce the joint size prior to sealant application. Follow Manufacturer's written instructions for maximum joint width and application methods.

3.3.4 Sealant Application

1. Apply sealant using equipment in accordance with manufacturer's written instructions.
2. Immediately after application, tool sealant to ensure firm, full contact with joint faces. Neatly tool surfaces to a slight concave profile. Avoid pulling sealant out of the joint by frequent cleaning of tooling instrument. Surface of sealant to be smooth, free from ridges, wrinkles, sags, air pockets and embedded impurities.
3. Ensure existing drainage holes provided for wall systems are not blocked by sealant material.

4. Joining Silicone to Urethane Sealants: Place silicone and urethane sealants in contact with each other by wet to wet (prior to skinning over) and/or wet silicone to dry urethane application methods, as per manufacturer's written instructions and confirmed to be acceptable by an on-site mock-up. Sealants detailing must provide a watertight seal, including lapping to provide proper shedding of water flowing with gravity. Where initial lengths of sealant are required to assure appropriate lap, apply silicone first.

3.3.5 Cleaning

1. Remove sealant smears and droppings on completion of sealant installation in affected areas.
    1. For non-porous surfaces (i.e. metal and glass), immediately remove all excess sealant adjacent to joint as work progresses with a cleaning solvent per Manufacturer's written instructions.
    2. For porous surfaces, allow sealant to develop initial cure, then remove by abrasion or other mechanical means. Caution should be exercised to maintain original surface integrity.
2. Remove masking tape immediately after tooling of joints.
3. Cleaning solutions and methods per Manufacturer's written instructions.

END OF SECTION 07 92 00

1 GENERAL

1.1 DESCRIPTION

1.1.1 This section governs removal of existing doors and supply and installation of new hollow metal doors and pressed steel frames.

1.2 REFERENCE STANDARDS

1.2.1 Conform to the latest edition of the following:

1. Canadian Steel Door and Frame Manufacturers Association

1.3 DESIGN REQUIREMENTS

1.3.1 All fire rated doors and frames shall have ULC appropriate label attached.

1.3.2 Manufacturing and fabrication shall be as specified, and not less than standards and tolerances set by the Canadian Steel Door and Frame Manufacturers Association

1.3.3 Door and frame manufacturer shall be a member of the Canadian Steel Door and Frame Manufacturers Association.

1.3.4 Where required, fire rated doors shall meet temperature rise requirements of the Ontario Building Code.

1.3.5 Door size tolerances shall be as follows:

1. Overall sizes: Plus or minus 0.8mm.
2. Thickness: Plus or minus 1.6mm.
3. Squareness: Diagonal difference maximum 3mm.
4. Bow, Twist or Warp: Maximum 3mm.

1.3.6 Door and Frame Sizes

1. Door sizes indicated on door schedules are frame rebate width and height dimensions. Doors shall be sized to suit frame rebate sizes.

1.3.7 Head, jamb and floor or threshold clearance for doors shall be as follows:

- Jamb and Head: 3mm.
- Bottom: 6mm from finish unless indicated otherwise.
- Lock Edges: Bevelled 3mm in 50mm.
- Between Meeting Edges of Pairs of Doors: 3mm.

1.4 DELIVERY STORAGE AND HANDLING

1.4.1 Deliver all hollow metal doors and pressed steel frames to the site fully protected and with adequate location and installation details. Deliver to the site in accordance with approved construction schedule.

1.4.2 Provide packaging such as cardboard or other containers, separators, banding and paper wrappings as required to completely protect all metal doors and frames during transportation and storage.

1.4.3 Store all hollow metal work in a dry location; off and away from ground contact; protect by suitable means required for installation; brace and stack to prevent racking, bending, twisting, or any other damage.

1.4.4 Leave spreaders in place until frames are braced or anchored in final locations.

1.4.5 In the event of damage, immediately make all repairs and replacements necessary to the approval of the Consultant and at no additional cost to the Owner.

1.4.6 Contractor will be allowed to store equipment and materials on site at school designated areas only and only with the written approval of the PDSB. Cost of such storage on site shall be costed in the bid documents. Security and/or loss of equipment and materials on site shall be with the Contractor. The PDSB will not be responsible for claims due to loss or damage on school property.

1.5 QUALIFICATIONS

1.5.1 Use only installers with 3 years minimum experience in work similar to work of this Section.

1.6 MOCK-UPS

1.6.1 Minimum of one mock-up of each door type, assembly is to include all relevant perimeter seals in all the openings. Mock up to include roof, soffit, and wall interfaces (if applicable).

1.6.2 Construct a mock-up on site of a typical door for review by Consultant, prior to commencement of installation work.

1.7 INSPECTIONS AND TESTING

1.7.1 Consultant may visit door manufacturer’s facility during manufacturing to examine assembly and materials.

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2 PRODUCTS

2.1 PRESSED STEEL DOORS FRAMES.

2.1.1 Door frames shall be fabricated from minimum 16 gauge thick steel. Fire rated door frames shall be of thicker gauge if required by ULC rating as scheduled.

2.1.2 Door frames shall have zinc coating finish ZF075 to ASTM 525 (Wiped Coat); or having Dofasco’s Satincote or Stelco’s Colorbond zinc coating before fabrication.

2.1.3 Pressed steel frames in fire rated walls shall be constructed to ULC approval and shall have fire rating label attached. Rating to be as noted in Door Schedules.

2.1.4 Door frames shall have mitred and welded corners, ground filled and dressed smooth.

2.1.5 Frame profiles shall as detailed for jamb depths, with 50mm face, 12.7mm returns and 16mm stops.

2.1.6 Provide interior door frames with 3 Glyn-Johnson GJ64 rubber bumper mutes to strike jamb stop of single doors.

2.1.7 Provide loose adjustable base anchors for anchorage to floor slabs

2.2 HOLLOW METAL DOORS

2.2.1 General

1. Hollow metal doors shall be fabricated as follows

   Exterior and / or interior high traffic 16 gauge

   Interior / non-high traffic 18 gauge

   Interior high traffic to include hallway doors , vestibule , gym , cafeteria , library and general office main doors .
2. Hollow metal doors shall have zinc coating finish, ZF075 to ASTM 525, (Wiped Coat) or having Dofasco’s Satincote or Stelco’s Colorbond zinc coating;
3. Doors shall be 45mm thick, full flush face, edge seam only.
4. Doors shall be tack welded at 6” (150mm) on centre at all seems
5. Top and bottom of doors shall be closed with recessed channels or have flush end closure as per manufacturer’s standards.
6. Glazing stops for lights in hollow metal doors shall be 20 gauge zinc coated steel formed, screw-on stops.

2.2.2 Interior

1. Core material to interior doors shall be resin impregnated kraft paper formed into a honeycomb core reinforcing to support door every 25mm.

2.2.3 Exterior

1. Core material to exterior doors to be inorganic glass fibre preformed slab insulation of 4.5 lbs/cu.ft. density, or polyurethane rigid insulation to door manufacturer’s standard.
2. Flush end closure shall be installed and sealed to recessed channel at top of outswinging exterior doors, as per manufacturer’s standard.

2.2.4 Fire Rated

1. Core materials to fire rated doors to be manufacturer’s standard for fire rated ULC approved fire doors.
2. Fire rated hollow metal doors shall be constructed to ULC approval and shall have required fire rating label attached.

2.3 ANCHORS

1. Floor anchors: Anchors shall be a minimum of 14 gauge steel.
2. Wall Anchors: Shall be “existing wall” type anchors.

2.4 HARDWARE

1. All hardware is to be as per the included hardware schedule.
2. Hardware Reinforcing Plates: Hard tempered steel, minimum thickness as follows:
   i) Hinge and pivot reinforcements: 10 gauge.
   ii) Strike reinforcements: 12 gauge.
   iii) Flush bolt reinforcements: 12 gauge.
   iv) Closer reinforcements: 12 gauge.
   v) Reinforcements for lock face, flush bolts, concealed holders, concealed or surface mounted closers: 12 gauge.

2.5 SEALANTS

1. Refer to Section 07920 – Elastomeric Joint Sealants.

2.6 PAINT

1. Refer to Section 09912 – Painting Steel.

3 FABRICATION AND MANUFACTURE

1. Fabricate all hollow metal work in accordance with profiles on reviewed shop drawings. Flat work to be levelled and straight with surfaces smooth and true.
2. Edges, angles and corners to be square, clean and smooth. Curved work to be made to true radii.
3. After welding, units to be square and true, free from distortion, such as wracking or twisting. Maximum twisting to be limited to 3mm measured on diagonal of door.
4. Fabricate frames in sections as large as practicable to minimise field jointing.
5. Mitre all corners of frames, reinforce and fully weld in accordance with manufacturer’s standard.
6. Glazing stops to be mitred at corners and drilled for O.H. countersunk screws. Corners to be sanded smooth with no sharp edges.
7. All pressed steel door frames shall be provided with steel spreader temporarily attached to the feet of both jambs to serve as a brace during shipping and handling.
8. Clean and chemically treat metal to provide maximum paint adhesion
9. Hardware Preparation - Door Reinforcement: Doors shall be mortised, reinforced, drilled and tapped at the factory for fully templated hardware in conformance with the final reviewed hardware schedule and templates provided by the hardware supplier. Where surface mounted hardware is to be applied doors shall have reinforcing plates only with drilling and tapping done on site.

4 EXECUTION

4.1 INSPECTION

4.1.1 Inspect Work of other sections upon which the Work of this section depends. Proceed only after deficiencies, if any, in Work of other sections have been corrected.

4.1.2 Ensure all anchor and setting or installing assemblies or components supplied by this trade for installation by others are properly located and correctly set in place.

4.2 PREPARATION

4.2.1 Do not proceed with work if weather at time of installation, or if immediate forecast is for weather which may result in damage to exposed wall elements, interior finishes or furnishings.

4.2.2 Obtain all dimensions affecting the work of this section on the job site.

4.2.3 Provide data, dimensions and components, anchors and assemblies to be installed by others in proper time for installation.

4.3 REMOVAL OF EXISTING DOORS

4.3.1 Remove and dispose of existing doors and frames (door frames and door slabs), including all associated sealants. Take all precautions required to prevent debris falling below.

4.3.2 Place all components (steel, glass, etc.) from door removal into separate containers on site and delivered to a recognized and approved recycling facility.

4.3.3 Take care to limit damage to interior finishes and exterior cladding. Repair all damage to sound interior finishes and exterior cladding at no cost to Owner.

4.4 INSTALLATION AND SECUREMENT

4.4.1 Install doors as per approved shop drawings.

4.4.2 Floor anchors: Shall be securely welded inside each jamb, with 2 holes provided at each jamb for floor anchorage.

4.4.3 Minimum number of wall anchors provided on each jamb shall be as follows:

1. Frames up to 7’-0” height: 3 anchors minimum.
2. Frames over 7’-0” height: 4 anchors minimum and not less than 1 per each 24” or portion thereof

4.4.4 Install interior and exterior sealants in accordance with Section 07900.

4.4.5 Thresholds: Shall be filled with fast-setting hydraulic cement or grout.

4.5 PERIMETER INSULATION, SEALANTS, AND TRIM

4.5.1 Completely fill void around frame perimeters with spray foam. Limit quantity of foam as recommended by product manufacturer to provide sufficient room for expansion.

4.5.2 Cut away foam exuding from joints prior to applying sealants.

4.5.3 Install interior and exterior sealants in accordance with Section 07900 and project drawings. Cap off large (greater than 19mm) joints and gaps between door frame and rough opening with new prefinished trim as required.

4.6 CLEANING AND ADJUSTMENT

4.6.1 Remove protective elements and labels from glass and frames, and thoroughly clean all steel and glass surfaces with a solution of mild domestic detergent in warm water. Take care in removing dirt from corners. Dry surfaces using soft cloths.

END OF SECTION 08 11 00

1 GENERAL

1.1 SECTION INCLUDES

.1 For continuity and ready reference, this section includes hardware Supply, Installation and Inspection which in total will involve more than one contractor, as described following. The General Contractor will ensure in submitting his bid that specific roles and scope delineations are clear.

.2 All hardware shall match PDSB standards.

.3 Hardware Supply: All hardware will be supplied by BG Distribution located at 115 Sharer Rd #2, Woodbridge, ON L4L 8Z3. Contractor to pick up, verify, and deliver hardware.

.4 Hardware Installation: It is the intention of this section that Installation is by the General Contractor if so qualified and prepared to meet warranty requirements of the installation or qualified personnel appointed by the General Contractor for all systems and methods described herein.

1.2 RELATED WORK

.1 Scope of Work ..... Section 01 00 00

.2 Submittals ..... Section 01 34 00

.3 Metal Doors and Frames ..... Section 08 10 00

1.3 REFERENCE STANDARDS

.1 CAN/CGSB-69.17-M86 – Bored and Pre-assembled Locks and Latches.

.2 CAN/CGSB-69.18-M90/ANSI/BHMA-A156.1-2013 – Butts & Hinges.

.3 CAN/CGSB-69.19-M93/ANSI/BHMA-A156-3-2014 – Exit Devices.

.4 CAN/CGSB-69.20-M90/ANSI/BHMA-A156-4-2013 – Door Controls (Closers).

.5 CAN/CGSB-69.29-93/ANSI/BHMA-A156-13-2012 – Mortise Locks & Latches.

.6 CAN/CGSB-69.34-93/ANSI/BHMA-A156.18-2012 – Materials & Finishes.

.7 Canadian Steel Door Manufacturers Association (CSDMA), and Canadian Metric Conversion Guide for Steel Doors and Frames (Modular Construction).

.8 NFPA 80-2016 – Fire Doors and Fire Windows.

1.4 REQUIREMENTS OF REGULATORY AGENCIES

.1 Hardware for doors in fire separations and exit doors shall be certified by a Canadian Certification Organization accredited by the Standards Council of Canada.

1.5 MAINTENANCE MATERIALS

.1 Provide maintenance materials in accordance with Section 01 34 00 – Submittals.

.2 Supply four sets of wrenches for door closers, locksets, latchsets, and exit devices.

.3 Supply four sets of other special parts or tools required for proper maintenance and adjustment of door hardware (excluding tools required for keying).

1.6 DELIVERY AND STORAGE

.1 Package each item of hardware, including fastenings, separately or in like groups of hardware. Label each package as to item definition and location and corresponding with the hardware list.

.2 Ensure deliveries are made in a timely manner to ensure progress of the work and to comply with the Contractor's construction schedule.

.3 Store hardware in a locked, clean and dry area and in a manner to allow easy access to each item group as needed, without disruption of the storage arrangement. Provide a written confirmation to the Consultant that the storage area is adequate and secure.

2 PRODUCTS

2.1 DOOR HARDWARE - GENERAL

.1 Hardware Suppliers - Door hardware shall be:

.1 BG Distribution, Toronto, 905-265-9449

.2 Key Control Cabinet:

.1 Enamel finish steel cabinet.

.2 Three-way cross reference index card system.

.3 Provide all accessories to accommodate all keys.

.4 Size cabinet to allow for 25% expansion.

2.2 FASTENINGS

.1 Supply screws, bolts, expansion shields and other fastening devices required for the satisfactory installation and operation of hardware, and as recommended by the hardware manufacturers for long life under hard use.

.2 Exposed screws for installing hardware shall have Phillips or Robertson heads.

.3 Exposed fastening devices shall match the finish and material of hardware.

.4 Where a pull is scheduled on one side of a door and a push plate on the other side, supply fastening devices, and install so the pull can be secured through the door from the reverse side. Install the push plate to cover fasteners.

.5 Use fasteners compatible with material through which they pass.

.6 All door closers shall be through-bolt mounted.

3 EXECUTION

3.1 INSTALLATION INSTRUCTIONS

.1 Furnish door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware. Advise door and frame manufacturers to be aware that strike heights as listed in the table below are required for this project.

.2 Furnish manufacturers' instructions for proper installation of each hardware component.

3.2 INSTALLATION

.1 All doors, frames, and finishing hardware shall be installed based on DHI installation guide for doors and hardware (ANSI/DHI A115.1G-1994 – Approved 8/19/94):

.1 Door hardware shall be installed by an approved Hardware Installer acceptable to the Hardware Supplier.

.2 Power door operators, complete with hook-up to power rough-in, low voltage control wiring, and exit device release, shall be installed by the manufacturers' recommended installer.

.2 Power door operators to be installed by hardware supplier. Low voltage control wiring to push button locations, exit device release, and 4" x 4" back boxes to be completed by Division 16 (Electrical Contractor).

.3 Architectural hardware:

.1 Locate and mount hardware at standard location dimensions in accordance with CSDMA, Canadian Metric Conversion Guide for Steel Doors and Frames (Modular Construction), and as indicated in the following table:

Hardware Mounting Heights	
Hardware Item	**Dimension Above Finished Floor**
LOCKSET or LATCHSET	1024mm to Centreline of Strike
DEADLOCK	1200mm to Centreline of Strike
EXIT DEVICE	950mm to Centreline of Strike
PUSH PLATE/DOOR PULLS	1066mm to Centreline of Plate or Pull

.4 The Hardware Installer shall carefully check manufacturer's installation instructions

supplied with hardware products for conflicts with the above noted dimensions.

.5 The Hardware Installer shall use manual or “Yankee” screw drivers to turn screws into pre-drilled pilot holes for installation of hinges on mineral core fire protection rated doors. Please note that other methods of installation may void the door manufacturer’s warranty.

.6 The recommended mounting heights shall be considered a general guide unless conditions such as intermediate rails and lines of glass dictate otherwise.

.7 Locate door stops to contact doors 75mm from latch edge.

.8 Install hardware and trim square and plumb to doors.

.9 Install mullion stabilizers at centre mullions at double doors and intermediate mullions on multiple door arrangements.

3.3 ADJUSTING, INSPECTION, AND CLEANING

.1 Adjust hardware so that latches, locks and closers operate smoothly and without binding and with minimal resistance in use.

.2 Ensure doors with closers close firmly and against wind and building air pressure, and can be opened readily as suitable for installation.

.3 Upon completion of door hardware installation, the Hardware Supplier shall submit a written certificate that all hardware has been correctly supplied and installed in accordance with the drawings, specifications, schedules, and approved final door hardware list, for type, function, and location, and that door hardware has been checked and adjusted.

.4 Clean hardware after installation following the hardware supplier’s recommendations.

.5 At project completion all items of door hardware shall be clean and free from disfigurement. The Contractor shall repair or replace hardware found to be defective.

END OF SECTION 08 71 00

1 GENERAL

1.1 DESCRIPTION

1.1.1 This section specifies the fabrication, supply and installation of door glazing.

1.2 ENVIRONMENTAL CONDITIONS - FOR EXTERIOR DOORS ONLY

1.2.1 Work shall not proceed if weather at time of installation, or if immediate forecast, is for weather which may result in damage to exposed wall elements or interior finishes and furnishings of building.

1.2.2 Do not carry out glazing installation at temperatures below 5°C. Should it become necessary to carry out Work at temperatures below 5°C, inform Consultant and consult glazing sealant manufacturer's representative. Proceed on their written instructions only.

1.3 INSPECTION AND TESTING - FOR EXTERIOR DOORS

1.3.1 Consultant may visit IGU manufacturer’s facility during manufacturing to examine assembly and materials. Promptly correct any deviations noted from approved shop drawings and from descriptions in the IGMA certificate at no cost to Owner.

1.4 DESIGN AND PERFORMANCE REQUIREMENTS

1.4.1 Design glazing to withstand, without any detrimental effects to appearance and performance, wind loads and temperature range expected in accordance with local Codes.

1.4.2 Select glass pane thickness and width of spacer to provide overall, nominal IGU thickness of 25mm (1") for exterior doors.

1.4.3 Size glazing unit to provide a minimum edge clearance between edge of unit and window frame in accordance with IGMA recommendations.

1.5 REFERENCE STANDARDS

1.5.1 Comply with requirements of the following documents, latest edition.

1. Glass Association of North America (GANA), "GANA Glazing Manual”
2. Insulating Glass Manufacturer Alliance (IGMA), "Glazing Recommendations for Sealed Insulating Glass Units”
3. Standards Council of Canada
    1. CAN/CGSB-12.1, "Tempered or Laminated Safety Glass”
    2. CAN/CGSB-12.3, "Flat, Clear Float Glass”
    3. CAN/CGSB-12.8, "Insulating Glass Units”
    4. CAN/CGSB-12.20-M, "Structural Design of Glass for Buildings”
    5. CAN/CGSB-12.2, "Flat, Clear Sheet Glass”
    6. CAN/CGSB-12.4, "Heat Absorbing Glass”

1.6 QUALITY ASSURANCE

1.6.1 Provide IGUs manufactured by an Insulating Glass Manufacturer Alliance (IGMA) certified member.

1.6.2 Provide notice for Consultant and/or Owner to review IGUs prior to installation.

1.6.3 Consultant and/or PDSB may visit the IGU manufacturer's facilities during manufacture/fabrication of products to be installed on this project. If requested, Contractor shall arrange for access for Consultant to that manufacturer's facility to review manufacture of products for Work.

1.6.4 Assembly methods and materials will be reviewed during visit to manufacturer's facility. Ensure manufacturer makes available IGMA required daily quality control records for review by Consultant and PDSB.

1.6.5 Consultant will review IGUs on site. Destructive testing may be performed to confirm concealed details. Replace IGUs not manufactured in accordance with IGMA certification and as otherwise detailed in this Section at no cost to PDSB.

2 PRODUCTS

2.1 GLASS

2.1.1 Standard Glass

1. Exterior Doors, Sidelights and Transoms

Location	Lite	Thickness	Type	Glass Colour	Coating
N/A	Outboard	6mm	Heat Soaked, Tempered	Clear	Low-E on 2
N/A	Inboard	6mm	Heat Soaked, Tempered	Clear	None

2. Interior Doors, Sidelights and Transoms

Location	Lite	Thickness	Type	Glass Colour	Coating
Refer to Interior Door Schedule in Drawings	Single Glazed	6mm	Heat Soaked, Tempered	Clear	None

2.1.2 Fire Rated Glass

1. Fire-rated, impact safety-rated glass ceramic:

Manufacturer	Product
Technical Glass Products	FireLite Plus – Standard Grade
Vetrotech	Keralite Laminated Impact Safety
Alternates	Consideration will be given to proposed alternates

2. Fire-rated Single Glazed Units – Interior Doors

Location	Lite	Thickness	Type	Glass Colour	Coating
Refer to Interior Door Schedule in Drawings	Single Glazed	7.9mm	Fire-rated, impact safety-rated glass ceramic	Clear	None

3. Fire-rated IGUs – Exterior Doors:

Location	Lite	Thickness	Type	Glass Colour	Coating
N/A	Outboard	6mm	Heat Soaked, Tempered	Clear	Low-E on 2
N/A	Inboard	7.9mm	Fire-rated, impact safety-rated glass ceramic	Clear	None
Sealants, spacers, desiccants, and all other IGU components used in the production of fire rated IGUs are to be in accordance with the fire rated glass manufacturer's requirements/tested assemblies.					

2.2 INSULATING GLASS UNITS

2.2.1 Acceptable IGU manufacturers include:

1. Trulite
2. Prelco
3. Cardinal
4. SAAND
5. Oldcastle

2.2.2 Identify IGUs as required by the IGMA Certification Program with the IGMA trademark, company name, location of production facility, and year of manufacture.

2.2.3 Perimeter Sealant System

1. Primary Seal: polyisobutylene (PIB)
2. Secondary Seal: two component structural polysulphide sealant; two component structural silicone seals (such as Dow 983 by Dow Corning Corporation or IGS 3723 by GE Silicones) can be used where approved by Consultant.

2.2.4 Spacer and Desiccant Systems

1. Spacer Products – Thin Wall Stainless Steel:

Manufacturer	Product
RollTech	Chromatech Plus
Helima	Nirotec
Cardinal	Endur IG
Alternates	Consideration will be given to proposed alternates

2. Size the spacer system as required to be compatible with framing system and engineered glass thicknesses. Unless otherwise specified, nominal air space width between inboard and outboard pane should be 12±1mm.
3. Provide a continuous spacer, fabricated with bent corners and fused butt joint(s). Assembly with connectors such as corner keys will only be considered if approved by IGMA. Written approval from Consultant must be obtained before proceeding with connectors.
4. Provide a spacer system which is suitable and tested for use in conjunction with argon gas.
5. Design desiccant volume as required to avoid inward deflection of glass and/or spacer and sealant system due to excessive adsorption of gasses other than water vapour.

2.2.5 IGU Inert Gas Fill

1. Use argon gas, minimum 90% concentration, to meet minimum requirement of CAN/CGBS-12.8, "Insulating Glass Units".

2.3 COATINGS

2.3.1 Low-E Coating

1. Sputtered type, such as:

Manufacturer	Product
Vitro Architectural Glass	Solarban 70XL
Cardinal	LoE²-366

AGC Glass	Energy Select 28
Alternates	Consideration will be given to proposed alternates

2.4 GLAZING COMPONENTS

2.4.1 Glazing Stops

1. Ensure glazing stops do not extend beneath IGU edges (such as shovel foot type stop).
2. Heel bead shall not impede the removal of glazing stops. Consultant will randomly inspect this throughout the entire project.

2.4.2 Glazing Tapes and Gaskets

1. For wet seal between glass and framing, use a black preformed, butyl tape incorporating continuous EPDM cord shim (minimum 3mm (1/8") diameter cord), mounted on a paper backer, such as:

Manufacturer	Product
Tremco	Polyshim II
Alternates	Consideration will be given to proposed alternates

2. For dry seal between glass and frame or stop, use EPDM or silicone extruded gasket. Do not use PVC or santoprene gaskets in compression glazing applications.
3. Select thickness of glazing tapes and gaskets based on manufacturer's written instructions to provide recommended compression necessary to ensure water tight seal of window assembly.

2.4.3 Glazing Sealants

1. For filling recesses in glazing tape and for heel beads, Type S, Grade NS, Class 50, moisture curing silicone sealant, conforming to ASTM C 920:

Manufacturer	Product
Dow Corning Canada Inc.	Dow 795
General Electric	Silpruf
Tremco Ltd.	Spectrem 2

1. For corner toe beads, use a general purpose butyl sealant, conforming to ASTM C1311:

Manufacturer	Product
Tremco Ltd.	Tremco Butyl

Manufacturer	Product
Tremco Ltd.	Tremco Dymonic
Or approved alternate	

1. For sealing butt joint at the sill/jamb corner of the interior stop, use Type S, Grade NS, fast-skinning, medium modulus silicone sealant conforming to ASTM C 920. Sealant colour to match interior stops.

Manufacturer	Product
Tremco Ltd.	Tremsil 600
Or approved alternate	

2.4.4 Setting Blocks

1. Use neoprene, EPDM or silicone rubber setting blocks with a Shore A Durometer hardness of 85±5. If insulated glass units have silicone secondary seals, use silicone setting blocks or approved equivalent. Do not use PVC or other types of setting blocks.
2. Use setting blocks with a minimum thickness of 6mm (1/4"). Ensure setting blocks are wide enough to fully support full glass width (both inboard and outboard panes for IGUs). Unless otherwise stated, provide minimum setting block length of 25mm per square metre for larger units, but not less than 50mm.
3. Follow recommendations listed in Section 5 of IGMA “Glazing Recommendations for Sealed Insulating Glass Units” regarding setting block size, thickness, etc.

3 EXECUTION

3.1 TEMPERING

3.1.1 Perform tempering using horizontal tongue-free method.

3.2 ASSEMBLY OF INSULATING GLASS UNITS (IGUs)

3.2.1 Fill spacer cavities with desiccant in accordance with desiccant manufacturer’s written instructions and immediately assemble spacer frame.

3.2.2 If corner keys are used, seal each corner key individually with PIB by one of the following methods:

1. Wrapping corner key legs with extruded PIB ribbon prior to insertion of key into spacer;
2. Injection of PIB after insertion of key into spacer; or
3. Coating exposed portion of key with PIB after insertion into spacer.

3.2.3 Ensure bond lines on spacer and glass are free of debris, fingerprints or other substances which may adversely affect the bond.

3.2.4 If required, edge delete coatings as per manufacturer’s written instructions and IGMA certification.

3.2.5 After cleaning, place spacer frame with all sides parallel to edges of glass. Ensure all sides of frame are equal dimension from glass edges.

3.2.6 Apply sufficient PIB around entire spacer frame assembly perimeter on both sides of the spacer to achieve complete PIB wet out onto glass surfaces.

3.2.7 Once assembled and compressed, verify that:

1. PIB is continuous and in contact with glass and spacer around entire perimeter of the assembly (on all glass surfaces inside the unit).
2. Post-fabrication width of the PIB is at least 4±1mm as measured from spacer top to bottom.
3. PIB does not extend past opening sight line by more than 1mm.
4. Spacer is located such that spacer top portion (visible through glass) is outside sight line of glazed assembly.

3.2.8 Proceed with gas fill operation. Once filling procedures are complete, mechanically close injection port and cover/seal with a layer of PIB.

3.2.9 Apply and tool structural secondary sealant around full IGU perimeter per sealant manufacturer's written instructions. Verify that:

1. Sealant is installed in a continuous operation around entire assembly perimeter and to full cavity depth created by metal spacer in between glass lites.
2. Once cured, sealant is minimum 4±1mm thick as measured from glass edges.

3.2.10 Store IGUs as per IGMA recommendations. Do not store IGUs shall in direct sunlight or outside during curing period. Follow sealant manufacturer's written instructions for curing prior to shipping to site. Ensure structural secondary sealant is thoroughly cured before shipment to site.

3.3 SITE EXAMINATION

3.3.1 Verify all glass is correctly sized for the intended openings and glass edges are free from nicks and other imperfections conducive to breakage.

3.3.2 Verify minimum required face and edge clearances will be achieved.

3.3.3 Notify Consultant of conditions which prevent proper installation.

3.4 IGU INSTALLATION

3.4.1 Preparation:

1. Verify surfaces to receive glazing are undamaged, free of obstructions and ready for preparation.
2. Remove all protective coatings from frames and glass.
3. Verify surfaces to receive glazing tape, including glass edges, are prepared in accordance with manufacturer's written instructions. Do not clean surfaces that cannot be glazed within two hours.

3.4.2 Glazing Tape Application:

1. Apply tape flush to outside edge of fixed stop. Butt tape at corners of openings (rather than overlapping or bending around corners), offsetting tape joints from window frame joints. Do not stretch tape during installation. Trim or otherwise adjust as needed to accommodate frame joint seals.
2. Seal all joints in glazing tape using compatible sealant and install 50mm long corner toe beads on either side of the joint.
3. Leave release paper on glazing tape until just before glazing.

3.4.3 Setting Block Placement:

1. Place each setting block at quarter points, but no closer than 150mm from glass corners.

3.4.4 Glass Placement

1. Clean glass face with a clean white cloth saturated with solvent using the 2-rag method.
2. Install glass unit centred in frame opening and resting on both setting blocks. Maintain minimum edge clearance of 3mm (1/8"). Ensure full contact of glass on setting blocks.
3. Press glass firmly against glazing tape. Take care to avoid displacing glazing tape during glass installation.
4. Locate glass within opening to provide minimum face clearances as recommended by IGMA.
5. For exterior units, install a heel bead of silicone sealant around full perimeter.
6. Install interior glazing stops immediately following glass placement. Tightly fit butt joints between stops. During installation, support any intermediate horizontal framing members against the downward force of hammering during stop installation.
7. Verify glazing tape is compressed to design face clearance include in manufacturer’s written instructions.
8. Fill depressions in glazing tape at sill with silicone sealant.

3.5 CLEANING AND ADJUSTMENT

3.5.1 Remove protective elements and labels from glass and thoroughly clean frame and glass surfaces with solution of mild domestic detergent in warm water. Take care in removing dirt from corners. Wipe surfaces dry using soft cloths. Glass to be cleaned according to GANA Informational Bulletin GAA 01-0300, Proper Procedures for Cleaning Architectural Glass Products.

END OF SECTION 08 80 00

1 GENERAL

1.1 DESCRIPTION

This section. specifies surface preparation and application of protective coatings to steel elements.

1.2 ENVIRONMENTAL CONDITIONS

.1 Ensure that substrate temperatures during application are a minimum of +10°C and a maximum of +35°C. Do not paint when air temperature is expected to reach 0°C before paint is dry.

.2 Do not apply coatings while the wind speed is greater than 20km/h.

.3 Do not apply coatings while the relative humidity is greater than 80%. The substrate temperature must be at least 5°C above the dew point while painting and curing.

.4 Do not apply coatings in direct sunlight or during rain.

1.3 SUBMITTALS

Steel Paint Manufacturer Review Letter certifying that the materials supplied, preparation and application of the paint is in accordance with the manufacturer's specifications.

1.4 MOCK-UPS

Two (2) locations for each coating to be used. Locations to be chosen in conjunction with the Consultant and be representative of typical locations expected for the specified work. Mock-up to include surface preparation and application of coating (1000mm long).

1.5 INSPECTION AND TESTING

.1 Notify the Consultant for review of preparation of steel surfaces and application of coating.

.2 Do not commence primer, or topcoat application until you receive written authorization from the Consultant.

.3 All coating applications shall be inspected in accordance with SSPC-PA2, Measurement of Dry Film Thickness with Magnetic Gauges, as well as ASTM D 3359, Standard Test Methods for Measuring Adhesion by Tape Test.

.4 Arrange to have coating manufacturer's representative visit the site prior to applying any material, in order to approve general surface preparation.

.5 Deficiencies shall be repaired in accordance with manufacturer's written instructions.

.6 Inspection and testing of work done to repair deficiencies shall be paid for by the Contractor.

2 MATERIALS AND PRODUCTS

2.1 GENERAL

.1 Paint materials to be products of a single manufacturer and designated by that manufacturer to be compatible with the existing conditions and to each other.

.2 The paint used on this project shall be for exterior application.

.3 All primers and base coats shall be tinted to a colour contrasting with the coats that follow.

.4 All materials delivered to the site must be in the original containers with unbroken seals and intact labels clearly identifying the product.

.5 Use materials in strict accordance with the manufacturer's specifications and requirements.

.6 Paint colours will be selected by the Owner on site.

2.2 PAINT MATERIALS

.1 Interior: Sherwin Williams: All Surface Enamel Latex Paint complete with All Surface Enamel Latex Primer

.2 Exterior: Sherwin Williams: Pro Industrial High-Performance Epoxy complete with Pro Industrial Universal Acrylic Primer

3 EXECUTION

3.1 QUALITY CONTROL

All work shall meet or exceed the more stringent of the manufacturer's requirements or the requirements of this Specification, or the standards quoted.

3.2 STORAGE OF MATERIALS

Store materials in a single location designated by the Consultant. Maintain neat and clean. Remove soiled and/or used rags at end of each workday to avoid risk of fire.

3.3 SURFACE PREPARATION

.1 Surface preparation and painting of metal surfaces shall be done in accordance with the relevant Structural Steel Painting Council (SSPC) Specification, and the requirements of this Specification.

.2 Remove deleterious materials including:

.1 all particles of dirt, rust, dust, chalk, mildew, grease, oil and any other deleterious materials which are detrimental to good bond by approved methods.

.2 all loose, flaking, blistered, deteriorated or otherwise unsound paint by approved methods.

.3 Prepare all rusted surfaces by blasting to SSPC-SP3 (Power Tool Clean). Produce a smooth, clean surface without rust in pits and without rough edges or protrusions.

.4 Old paint may remain if it is solidly adhering. It shall be considered to have sufficient adhesion if it cannot be lifted as a layer by inserting a knife blade under it.

.5 Remove mildew by scrubbing with a solution of one tablespoon dry powdered laundry detergent and one quart hydrochloride type household bleach, to 3 quarts warm water. Follow with a thorough rinse with water. Wear protective glasses and gloves.

.6 Dull by sanding all existing hard glossy paint surfaces to achieve maximum adhesion.

.7 Clean all surfaces to remove dirt and chalk immediately prior to painting with a Trisodium Phosphate (TSP) solution, followed by a clear water rinse. Allow surface to dry, and paint prior to flash rust formation.

3.4 SITE PREPARATION PRIOR TO PAINTING

.1 Mask over adjacent surfaces as required to produce neat and true paint lines at discontinuous edges.

.2 Protect adjacent surfaces and surfaces below from dripping, overspray etc.

.3 Install "WET PAINT" signs.

.4 Enclose areas below the work to prevent access to pedestrians. Be responsible for any paint spilled on vehicles or other objects below the work area.

3.5 MATERIAL PREPARATION

.1 Mix well before using.

.2 Withdraw from original container only as much material as can be used in one day. Do not return unused material to original container.

.3 Maintain containers closed if not extracting paint.

.4 For thinning, use only those materials permitted by the Consultant and approved by the manufacturer.

3.6 APPLICATION OF PRIMER COAT

.1 Mix thoroughly to manufacturer's instructions.

.2 Apply primer coat to all metal surfaces that were exposed by surface preparation.

.3 Apply primer to exceed the minimum dry film thickness (DFT).

3.7 APPLICATION OF BASE/FINISH COATS

.1 Apply in strict accordance with manufacturer's requirements. Do not use any other paint application methods unless prior written approval is obtained from the Consultant.

.2 Apply base coat and finish coats to all surfaces to exceed the minimum DFT specified in Paragraph 2.2.

.3 The dried finish coat shall be uniform in appearance, colour, and gloss. The "lap-in" areas shall exhibit uniformity with the adjacent painted areas. The finish shall be free of dirt, coarse particles, or any other foreign matter.

.4 The final finish coat shall completely cover in one application. The Contractor shall touch-up areas which were not properly coated the first time.

END OF SECTION 09 91 20

Appendix A Pre-Reno Designated Substance Survey – Fisher Engineering

FISHER ENGINEERING

ENGINEERING

Professional Engineers Ontario

LABORATORY

CALA
Canadian Association for Laboratory Accreditation Inc.

PRE-RENO
DESIGNATED SUBSTANCE SURVEY

Interior Door Replacement
Caledon Central Public School
18357 Kennedy Road, Caledon, ON

Prepared for:
Engineering Link Incorporated
375 University Avenue, Suite 901
Toronto, ON M5G 2J5

400 Esna Park Drive, Unit 15
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Tel: (905) 475-7755
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Project No. FE 23-13303

September 19, 2023

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EXECUTIVE SUMMARY

Fisher Engineering Limited ('Fisher') was retained by Engineering Link Incorporate, to carry out a pre-renovation Designated Substances Survey (DSS) for the Interior Door Replacement project for the Caledon Central Public School, located at 18357 Kennedy Road, Caledon, Ontario (hereinafter referred to as the “Site”).

The scope of the DSS consisted of a review of existing environmental reports (where available); visual inspection for the presence of designated substances within the scope of the work areas; collection and analysis of the materials suspected to contain hazardous building materials, particularly asbestos and lead; and to provide recommendations for the safe handling or abatement of these materials prior to any renovation work. The fieldwork was conducted by Iqbal Fattah, on September 1, 2023.

A summary of the designated substances identified during the survey is presented below:

Asbestos

Sampling was conducted of building materials suspected to contain asbestos and expected to be impacted by planned construction activities. A total of fifty-one (51) bulk samples were collected and submitted to Fisher Environmental Laboratories for Polarized Light Microscopy (PLM) analysis, as outlined in NIOSH Method 9002

- Asbestos-containing cream caulking has been identified around the interior side of the door frames throughout the Site.
- Asbestos-containing Vinyl Floor Tile 5 (VFT 5, 12”x12” Green with Beige Streaks) was found in the following rooms: Classroom 206, 207 & 212, also in Custodian Room 118B, and Server Room 125.

If work activities for the door replacement project disturb any of the above-listed asbestos-containing materials, the material should be removed by the following operations:

- Removal of cream caulking will require Type 1 asbestos abatement procedures, as per O. Reg. 278/05.
- Removal of asbestos-containing vinyl floor tiles will require Type 1 asbestos abatement procedures as outlined in O. Reg. 278/05. Please note that if the vinyl floor tiles are disturbed by the use of power tools during removal, abatement must be performed using Type 3 procedures.

Lead

Six (6) bulk samples were collected and submitted to Fisher Environmental Laboratories for inductively coupled plasma (ICP) analysis, as outlined in NIOSH method 7300.

- ❑ Elevated concentrations of lead-containing paint were found in the grey paint on Door 32 in the library.
- ❑ Removal of any lead-containing materials shall be carried out in accordance with the following regulations and guidelines:
    - Guideline: Lead on Construction Projects (issued by Ontario Ministry of Labour);
    - Designated Substances Regulation, O. Reg. 490/09; and
    - Regulation for Construction Projects, O. Reg. 213/91.

Mercury

- ❑ Mercury is present as a vapour in fluorescent light bulbs.
- ❑ No immediate recommendations are warranted with regard to mercury.
- ❑ If work activities affect the fluorescent light bulbs, Fisher recommends that the presumed mercury-containing fluorescent light tubes be removed and disposed of in accordance with O. Reg. 558/00.

Silica

- ❑ Crystalline silica is a constituent of all concrete and masonry products at the Site.
- ❑ Renovation works that are likely to generate silica-containing dust shall be carried out in accordance with the following regulations and guidelines:
    - Guideline: Silica on Construction Projects (issued by Ontario Ministry of Labour);
    - Designated Substances Regulation, O. Reg. 490/09; and
    - Regulation for Construction Projects, O. Reg. 213/91.

Other Designated Substances

- ❑ The other designated substances (acrylonitrile, arsenic, benzene, coke oven emissions, ethylene oxide, isocyanates, and vinyl chloride) would not be expected to be present at the Site and were not observed during the current survey.
- ❑ No recommendations are warranted with regard to these other designated substances.

1.0. INTRODUCTION

Fisher Engineering Limited ('Fisher') was retained by Engineering Link Incorporate, to carry out a pre-renovation Designated Substances Survey (DSS) for the Interior Door Replacement project for the Caledon Central Public School, located at 18357 Kennedy Road, Caledon, Ontario (hereinafter referred to as the "Site").

The scope of the DSS consisted of a review of existing environmental reports (where available); visual inspection for the presence of designated substances within the scope of the work areas; collection and analysis of the materials suspected to contain hazardous building materials, particularly asbestos and lead; and to provide recommendations for the safe handling or abatement of these materials prior to any renovation work. Iqbal Fattah of Fisher conducted the fieldwork on September 1, 2023.

The following work areas were included in the current survey:

- ✓ Interior doors on the 1st Floor of the building, and
- ✓ Interior doors on the 2nd Floor of the building

DSS reports are required prior to any construction, demolition, or restoration project that can take place in Ontario. As per Section 30 of the Ontario Occupational Health and Safety Act (OHSA), designated substances and other potentially hazardous building materials must be identified prior to any work being done that may disturb these materials and result in unnecessary exposure of workers and building occupants. The designated substances include:

Asbestos	Coke Oven Emissions	Mercury
Acrylonitrile	Ethylene Oxide	Silica
Arsenic	Isocyanates	Vinyl Chloride
Benzene	Lead	

2.0. METHODOLOGY

Fisher followed the protocols outlined in Ontario OHSA for collecting and analyzing bulk samples of materials suspected to contain asbestos or lead. Visual assessment of the material was the primary method of identification with occasional physical contact to collect bulk samples or examine for underlying layers.

Representative bulk samples were collected of materials suspected of containing asbestos or lead. The tools used by the investigator to collect the bulk samples were cleaned after each

sample was collected to avoid cross-contamination. Samples were placed in plastic sealable containers, marked with a unique sample number and transported to an independent accredited laboratory for analysis.

Where applicable, samples of suspect materials were collected to establish asbestos or lead content. Samples were grouped according to the similarity of appearance ("homogeneous" materials). The frequency at which the samples were collected was sufficient to obtain a general representation of the presence of these materials at the Site. Samples collected are presumed to be representative of the respective building materials in place at the Site. However, due to potential past renovations, alterations, repairs, or construction phases, individual materials may not be representative of the samples collected.

The laboratory certificate of analysis is included in Appendix A. Site plans to indicate the project scope of work areas, bulk sample locations and any areas of asbestos or lead abatement are included in Appendix B. Representative photos of Site conditions encountered at the time of the current survey are included in Appendix C.

3.0. DOCUMENT AND REPORT REVIEW

A document review was conducted to assist in understanding the scope of work. This included a review of the drawings design package (Engineering Link Inc. Project No. 23-0485, issued on 2023-08-16), for the proposed Interior Door Replacement project prepared by Engineering Link Incorporated.

At the time of the assessment, no previous reports for the Site were available to review.

4.0. FINDINGS

Asbestos-Containing Materials

Sampling was conducted of building materials suspected to contain asbestos and expected to be impacted by planned construction activities. A total of fifty-one (51) bulk samples were collected and submitted to Fisher Environmental Laboratories for Polarized Light Microscopy (PLM) analysis, as outlined in NIOSH Method 9002. The results of the PLM analysis are summarized in Table 1, below.

Table 1 - Summary of Bulk Asbestos Sample Analysis (Polarized Light Microscopy)

Sample No.	Sample Location	Sample Description	Asbestos Content (% by Weight/Type)
23-1800-1	Along the Joint of the Door #1 and the Block Wall	Cream caulking	0.5-5% Chrysotile

Sample No.	Sample Location	Sample Description	Asbestos Content (% by Weight/Type)
23-1800-2	**Main Office, Around the Door #59**	**Cream caulking**	**0.5-5% Chrysotile**
23-1800-3	**Boy's Washroom, 2nd Floor Around the Door #72**	**Cream caulking**	**0.5-5% Chrysotile**
23-1800-4 to 6	Classroom 103, adjacent to the Door #1	VFT-1, 12"x12" Light Grey with Blue Streaks	Not Detected
23-1800-7	Classroom 105, adjacent to the Door #2	VFT-2, 12"x12" Grey with White Streaks	Not Detected
23-1800-8, 9	Classroom 118, adjacent to the Door #42	VFT-1, 12"x12" Light Grey with Blue Streaks	Not Detected
23-1800-10	Classroom 103	Grey Mastic, under VFT-1	Not Detected
23-1800-11	Classroom 105	Grey Mastic, under VFT-2	Not Detected
23-1800-12	Kitchen	Grey Mastic, under VFT-3	Not Detected
23-1800-13 to 15	Along the Joint of the Door #9 and Block Wall	Grey Caulking	Not Detected
23-1800-16 to 18	Corridor adjacent to the Door #10	Ceiling Tile 1, 2'x4' Pinprick with Scattered Small Fissures	Not Detected
23-1800-19, 20	Kitchen, Around the Door #15	VFT-3, 12"x12" Light Cream with Grey Streaks	Not Detected
23-1800-21	Washroom, Around the Door #16	VFT-3, 12"x12" Light Cream with Grey Streaks	Not Detected
23-1800-22	Around the Door #20	VFT-4, 12"x12" Light Beige with White & Black Streaks	Not Detected
23-1800-23	Around the Door #21	VFT-4, 12"x12" Light Beige with White & Black Streaks	Not Detected
23-1800-24	Around the Door #22	VFT-4, 12"x12" Light Beige with White & Black Streaks	Not Detected
23-1800-25	General Purpose Room, around the Door #20	Black Mastic, under VFT-4	Not Detected
23-1800-26	Server Room	Black Mastic, under VFT-5	Not Detected
23-1800-27	Music Room	Black Mastic, under VFT-6	Not Detected
23-1800-28	**Server Room**	**VFT-5, 12"x12" Green with White & Black Streaks**	**0.5-5% Chrysotile**

Sample No.	Sample Location	Sample Description	Asbestos Content (% by Weight/Type)
23-1800-29	**Custodian Room 118B, around the Door #40**	**VFT-5, 12"x12" Green with White & Black Streaks**	**0.5-5% Chrysotile**
23-1800-30	**Classroom #207**	**VFT-5, 12"x12" Green with White & Black Streaks**	**0.5-5% Chrysotile**
23-1800-31, 32	Music Room	VFT-6, 12"x12" Light Grey with Dark Grey Streaks	Not Detected
23-1800-33	Storage, around the Door #30	VFT-6, 12"x12" Light Grey with Dark Grey Streaks	Not Detected
23-1800-34	Tech and Science Room 116	VFT-7, 12"x12" Beige with Brown Streaks	Not Detected
23-1800-35, 36	Custodian Room 121B around the Door #51	VFT-7, 12"x12" Beige with Brown Streaks	Not Detected
23-1800-37	Library, around Glass Window on the Door #45	Brown/Black Sealant	Not Detected
23-1800-38	Stair F, around Glass Window on the Door #39, 1st Floor	Brown/Black Sealant	Not Detected
23-1800-39	Stair F, around Glass Window on the Door #88, 2nd Floor	Brown/Black Sealant	Not Detected
23-1800-40 to 42	Classroom 203, adjacent to the Door #69	VFT-8, 12"x12" Beige with White & Brown Streaks	Not Detected
23-1800-43	Classroom 209, adjacent to the Door #83	VFT-9, 12"x12" Light Beige with Beige Streaks	Not Detected
23-1800-44	Classroom 211, adjacent to the Door #85	VFT-9, 12"x12" Light Beige with Beige Streaks	Not Detected
23-1800-45	Classroom 210, adjacent to the Door #84	VFT-9, 12"x12" Light Beige with Beige Streaks	Not Detected
23-1800-46	Classroom 203	Cream Mastic, under VFT-8	Not Detected
23-1800-47, 48	Classroom 209	Cream Mastic, under VFT-9	Not Detected
23-1800-49, 50	Main Office, above the Door #59	Drywall Joint Compound	Not Detected
23-1800-51	Corridor, above the Door #58	Drywall Joint Compound	Not Detected

Ontario Regulation 278/05 - Asbestos on Construction Projects and in Buildings and Repair Operations (O. Reg. 278/05) defines an "asbestos-containing" material with an asbestos content equal to or greater than 0.5% by Weight.

Based on the laboratory analysis by the PLM method, the following building materials were found to contain asbestos:

- ❑ Asbestos-containing cream caulking was found around the interior of the various door frames throughout the Site.
- ❑ Asbestos-containing Vinyl Floor Tile 5 (VFT 5, 12”x12” Green with Beige Streaks) in the following rooms: Classroom 206, 207 & 212, also in Custodian Room 118B, and Server Room 125.

In addition to the above findings, the following observations were noted;

- ☐ The red caulking around Door #12 has been determined not to contain asbestos. It has been identified as a silicone-based material, which does not contain asbestos.

Based on the findings of the current survey conducted within the scope of the work areas, asbestos was not identified in the following building materials:

- Wall Drywall Joint Compound.
- Vinyl Floor Tiles 1, 2, 3, 4, 6, 7, 8 & 9.
- Grey Mastic under VFT 1, VFT2 & VFT3.
- Black Mastic under VFT4, VFT5 & VFT6.
- Cream Mastic under VFT8 & VFT9.
- Grey Caulking
- Ceiling Tiles 1, and
- Brown/Black Sealant around the glass window on the door.

ACM may be present at the Site that is not identified in this report. Should additional suspected ACM not outlined in this report be discovered, it should be presumed as ACM until sample analysis determines asbestos content. Precautions should be taken when dismantling solid wall or ceiling finishes or any other building surfaces which may conceal potential ACM. Such precautions include, but are not limited to, isolation measures and appropriate personal protective equipment.

Lead-Containing Materials

Lead-Containing Paint

Six (6) bulk samples were collected and submitted to Fisher Environmental Laboratories for inductively coupled plasma (ICP) analysis, as outlined in NIOSH method 7300. The results of the sample analysis are summarized in Table 2, below.

Table 2 - Summary of Lead Paint Sample Analysis

Sample No.	Sample Location	Sample Description	Lead Content (ppm and % by Weight)
23-1800-52	Door Frame, Door#1	Brown Door Paint	190 ppm (0.0190%)
23-1800-53	Block Wall attached to the Door#1	Light Green Paint	143 ppm (0.0143%)
23-1800-54	Door Frame, Door#3	Blue Door Paint	274 ppm (0.0274%)
23-1800-55	Block Wall, Boy's Washroom	Cream Wall Paint	26 ppm (0.0026%)
23-1800-56	**Library, Door # 32**	**Grey Door Paint**	**1,874 ppm (0.1874%)**
23-1800-57	Door Frame # 33	Green Door Paint	10 ppm (0.001%)

The Ontario Ministry of Labour (MOL) has not prescribed criteria defining "lead-containing" materials. Further, the MOL has not established a lower limit for concentrations of lead in paint, below which precautions do not need to be considered during construction projects. However, except for aggressive disturbance of painted finishes (e.g., abrasive blasting, torch cutting, or grinding), Fisher believes that a lead content below 0.1% by Weight (1,000 ug/g or 1000 ppm) represents a concentration in which lead content is not the limiting hazard for construction hygiene purposes.

An elevated concentration of lead (greater than 0.1% lead) was detected in the collected grey paint sample submitted for analysis.

Other Designated Substances

During the current survey, no sampling for mercury was conducted. However, fluorescent light tubes (known to contain mercury) were observed at the Site. No other building materials or components suspected to contain mercury were noted during the building survey.

Crystalline silica is a constituent of all concrete and masonry products present at the Site. While the cutting, grinding, or demolition of materials containing silica is not anticipated at the Site, these activities should be completed in accordance with Ontario MOL Guidelines for Silica on Construction projects. Specifically, the Guideline prescribes respiratory protection, site isolation, and the use of wetting to control dust emissions during the cutting, grinding, drilling, or demolition of silica-containing materials. Please refer to the Guideline for details concerning Silica on Construction Projects.

No other designated substances or other potentially hazardous building materials were identified in the proposed project scope areas. If additional suspected designated substances or other potentially hazardous building materials not identified in this report pertaining to the Site are discovered, work should be stopped and the material(s) in question should be sampled for determination of content.

5.0. RECOMMENDATIONS

Based on the observations and findings outlined above, Fisher recommends the following:

Asbestos:
If work activities may disturb any asbestos-containing materials, the material should be removed by the following operations:

- ❑ Removal of cream caulking will require Type 1 asbestos abatement procedures, as per O. Reg. 278/05.
- ❑ Removal of asbestos-containing vinyl floor tiles will require Type 1 asbestos abatement procedures as outlined in O. Reg. 278/05. Please note that if the vinyl floor tiles are disturbed by the use of power tools during removal, abatement must be performed using Type 3 procedures.

Lead:

- ❑ Removal of lead-containing materials shall be carried out in accordance with the following regulations and guidelines:
    - Guideline: Lead on Construction Projects (issued by Ontario Ministry of Labour);
    - Designated Substances Regulation, O. Reg. 490/09; and
    - Regulation for Construction Projects, O. Reg. 213/91.

Mercury:

- ❑ No immediate recommendations are warranted with regard to mercury.
- ❑ However, if the disturbance of the identified fluorescent light tubes presumed to contain mercury is planned as part of the anticipated construction activities, Fisher recommends that these items be removed and disposed of in accordance with O. Reg. 558/00.

Silica:

- ❑ Renovations and/or demolition operations that are likely to generate silica-containing dust shall be carried out in accordance with the following requirements:
    - Guideline: Silica on Construction Projects (issued by Ontario MOL);
    - Designated Substances Regulation, O. Reg. 490/09; and
    - Regulation for Construction Projects, O. Reg. 213/91.

6.0. LIMITATIONS

Fisher Engineering Limited accepts responsibility for the competent performance of its duties in executing this assignment within the normal standards of the profession, but disclaims responsibility for consequential damages, if any.

The scope of the survey is based on prior agreement with the client, and the rationale given in this report. The building survey findings rely on the professional interpretation of selective sampling and analysis. Sample analysis results have been applied to homogenous materials in unsampled locations; it was not within the scope of work to carry out an exhaustive sampling and analysis program.

This report was prepared for Engineering Link Incorporated. The scope of services performed may not be appropriate for the purposes of other users, and any use or reuse of this document or its findings or recommendations represented herein is at the sole risk of any other user.

We trust that the information provided in the report meets your current requirements. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Prepared by:

Iqbal Fattah, M.Sc.
Project Manager

Reviewed by:

Dave Fisher, P.Eng. C. Chem
Principal

APPENDIX A – LABORATORY CERTIFICATE OF ANALYSIS

FISHER ENVIRONMENTAL LABORATORIES

FULL RANGE ANALYTICAL SERVICES • SOIL/WATER/AIR TESTING • ENVIRONMENTAL COMPLIANCE PACKAGES • 24 HOUR EMERGENCY RESPONSE • CALA ACCREDITED

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Client: City of Brampton
Address: 2 Wellington Street West
Brampton, ON
L6Y 4R2
Tel.:
E-mail:
Attn:

F.E. Job #: 23-1800
Project Name: DSS for Interior Door Replacement
Project ID: FM-P 23-13303
Date Sampled: 1-Sep-2023
Date Received: 8-Sep-2023
Date Reported: 12-Sep-2023
Location: 18357 Kennedy Road
Caledon, ON

Certificate of Analysis

Analysis Requested:	Asbestos, Lead
Sample Description:	57 Bulk Sample(s) (***Semi-Rush***)

Sample Matrix and Client Sample Description	Client Sample Location	Lab Sample ID	Asbestos Content and Fibre Type
1A - Cream Caulking	Door-1, Exterior, along the Joint of the Door Frame and the Block Wall	23-1800-1	0.5-5% Chrysotile
1B - Cream Caulking	Main Office, Door 59, around Door Frame	23-1800-2	0.5-5% Chrysotile
1C - Cream Caulking	2nd Floor, Boy's Washroom, Door 72, around Door Frame	23-1800-3	0.5-5% Chrysotile
2A - VFT-1, 12"x12", Light Grey with Blue Streaks	Classroom 103, adjacent to Door Frame, Floor	23-1800-4	Not Detected
2B - VFT-1, 12"x12", Light Grey with Blue Streaks	Classroom 103, adjacent to Door Frame, Floor	23-1800-5	Not Detected
2C - VFT-1, 12"x12", Light Grey with Blue Streaks	Classroom 103, adjacent to Door Frame, Floor	23-1800-6	Not Detected
3A - VFT-2, 12"x12", Grey with White Streaks	Classroom 105, adjacent to Door 2, Floor	23-1800-7	Not Detected
3B - VFT-2, 12"x12", Grey with White Streaks	Classroom 118, adjacent to Door 42	23-1800-8	Not Detected
3C - VFT-2, 12"x12", Grey with White Streaks	Classroom 118, adjacent to Door 42	23-1800-9	Not Detected

Results relate only to the items tested

Certificate of Analysis

Analysis Requested:	Asbestos, Lead
Sample Description:	57 Bulk Sample(s) (Semi-Rush)

Sample Matrix and Client Sample Description	Client Sample Location	Lab Sample ID	Asbestos Content and Fibre Type
4A - Grey Mastic	Classroom 103, under VFT-1	23-1800-10	Not Detected
4B - Grey Mastic	Classroom 105, under VFT-2	23-1800-11	Not Detected
4C - Grey Mastic	Door 15, Kitchen, under VFT-3	23-1800-12	Not Detected
5A - Grey Caulking	Door 9, along the Joint of the Door Frame and the Block Wall	23-1800-13	Not Detected
5B - Grey Caulking	Door 9, along the Joint of the Door Frame and the Block Wall	23-1800-14	Not Detected
5C - Grey Caulking	Door 9, along the Joint of the Door Frame and the Block Wall	23-1800-15	Not Detected
6A - Ceiling Tiles-1, 2'x4', Pinprick with Scattered Small Fissures	Corridor adjacent to Door 10, Ceiling	23-1800-16	Not Detected
6B - Ceiling Tiles-1, 2'x4', Pinprick with Scattered Small Fissures	Corridor adjacent to Door 10, Ceiling	23-1800-17	Not Detected
6C - Ceiling Tiles-1, 2'x4', Pinprick with Scattered Small Fissures	Corridor adjacent to Door 10, Ceiling	23-1800-18	Not Detected
7A - VFT-3, 12"x12", Light Cream with Grey Streaks	Door 15, Kitchen, Floor, around the Door Frame	23-1800-19	Not Detected
7B - VFT-3, 12"x12", Light Cream with Grey Streaks	Door 15, Kitchen, Floor, around the Door Frame	23-1800-20	Not Detected
7C - VFT-3, 12"x12", Light Cream with Grey Streaks	Door 16, Washroom, Floor, around the Door Frame	23-1800-21	Not Detected

Certificate of Analysis

Analysis Requested:	Asbestos, Lead
Sample Description:	57 Bulk Sample(s) (Semi-Rush)

Sample Matrix and Client Sample Description	Client Sample Location	Lab Sample ID	Asbestos Content and Fibre Type
8A - VFT-4, 12"x12", Light Beige with White and Black Streaks	Door 20, Floor, around the Door Frame	23-1800-22	Not Detected
8B - VFT-4, 12"x12", Light Beige with White and Black Streaks	Door 21, Floor, around the Door Frame	23-1800-23	Not Detected
8C - VFT-4, 12"x12", Light Beige with White and Black Streaks	Door 22, Floor, around the Door Frame	23-1800-24	Not Detected
9A - Black Mastic	General Purpose Room, adjacent to Door 20, under VFT-4	23-1800-25	Not Detected
9B - Black Mastic	Server Room, Floor, under VFT-5	23-1800-26	Not Detected
9C - Black Mastic	Music Room, Floor, under VFT-6	23-1800-27	Not Detected
10A - VFT-5, 12"x12", Green with Beige Streaks	Server Room, Floor, around Door 28	23-1800-28	0.5-5% Chrysotile
10B - VFT-5, 12"x12", Green with Beige Streaks	Custodian Room, Floor, around Door 40	23-1800-29	0.5-5% Chrysotile
10C - VFT-5, 12"x12", Green with Beige Streaks	Classroom 207, Floor, around Door 81	23-1800-30	0.5-5% Chrysotile
11A - VFT-6, 12"x12", Light Grey with Dark Grey Streaks	Music Room, Floor, around the Door Frame 29	23-1800-31	Not Detected
11B - VFT-6, 12"x12", Light Grey with Dark Grey Streaks	Music Room, Floor, around the Door Frame 29	23-1800-32	Not Detected
11C - VFT-6, 12"x12", Light Grey with Dark Grey Streaks	Storage, Floor, around Door Frame 30	23-1800-33	Not Detected

Certificate of Analysis

Analysis Requested:	Asbestos, Lead
Sample Description:	57 Bulk Sample(s) (Semi-Rush)

Sample Matrix and Client Sample Description	Client Sample Location	Lab Sample ID	Asbestos Content and Fibre Type
12A - VFT-7, 12"x12", Beige with Brown Streaks	Room 116, Floor, around the Door Frame 44	23-1800-34	Not Detected
12B - VFT-7, 12"x12", Beige with Brown Streaks	Custodian Room #121B, Floor, around Door 51	23-1800-35	Not Detected
12C - VFT-7, 12"x12", Beige with Brown Streaks	Custodian Room #121B, Floor, around Door 51	23-1800-36	Not Detected
13A - Brown/Black Sealant	Library, Door 45, around the Glass Window on the Door	23-1800-37	Not Detected
13B - Brown/Black Sealant	Door 39, around the Glass Window on the Door	23-1800-38	Not Detected
13C - Brown/Black Sealant	2nd Floor, Door 88, around the Glass Window on the Door	23-1800-39	Not Detected
14A - VFT-8, 12"x12", Beige with White and Brown Streaks	Classroom 203, Floor, adjacent to Door 69	23-1800-40	Not Detected
14B - VFT-8, 12"x12", Beige with White and Brown Streaks	Classroom 203, Floor, adjacent to Door 69	23-1800-41	Not Detected
14C - VFT-8, 12"x12", Beige with White and Brown Streaks	Classroom 203, Floor, adjacent to Door 69	23-1800-42	Not Detected
15A - VFT-9, 12"x12", Light Beige with Beige Streaks	Classroom 209, Floor, around Door 83	23-1800-43	Not Detected
15B - VFT-9, 12"x12", Light Beige with Beige Streaks	Classroom 211, Floor, around Door 85	23-1800-44	Not Detected
15C - VFT-9, 12"x12", Light Beige with Beige Streaks	Classroom 210, Floor, around Door 84	23-1800-45	Not Detected

Certificate of Analysis

Analysis Requested:	Asbestos, Lead
Sample Description:	57 Bulk Sample(s) (Semi-Rush)

Sample Matrix and Client Sample Description	Client Sample Location	Lab Sample ID	Asbestos Content and Fibre Type
16A - Cream Mastic	Classroom 203, Floor, below VFT-8	23-1800-46	Not Detected
16B - Cream Mastic	Classroom 209, Floor, below VFT-9	23-1800-47	Not Detected
16C - Cream Mastic	Classroom 209, Floor, below VFT-9	23-1800-48	Not Detected
17A - Drywall Joint Compound	Main Office, Door 59, above the Door Frame	23-1800-49	Not Detected
17B - Drywall Joint Compound	Main Office, Door 59, above the Door Frame	23-1800-50	Not Detected
17C - Drywall Joint Compound	Corridor, Door 58, above the Door Frame	23-1800-51	Not Detected

Fisher Environmental Laboratories (Lab ID #: 2745) is accredited by CALA (Canadian Association for Laboratory Accreditation Inc.) for asbestos analysis by PLM.

ANALYTICAL METHOD:

Asbestos has been done in accordance with normal professional standard using the following Fisher Environmental Lab Method: Asbestos by PLM (Polarized Light Microscope) F-26, Rev.2.2.

Certificate of Analysis

Analysis Requested:	Asbestos, Lead
Sample Description:	57 Bulk Sample(s) (Semi-Rush)

Sample Matrix and Client Sample Description	Client Sample Location	Lab Sample ID	Lead (ppm)
L1 - Brown Paint	Door-1, Door Frame	23-1800-52	190
L2 - Light Green Paint	Door-1, Block Wall attached to the Door Frame	23-1800-53	143
L3 - Blue Paint	Door 3, Door Frame	23-1800-54	274
L4 - Cream Paint	Boy's Washroom, Block Wall	23-1800-55	26
L5 - Grey Paint	Door 32, Interior Side	23-1800-56	1,874
L6 - Green Paint	Door 33, Door Frame	23-1800-57	10

< result obtained was below RL (Reporting Limit).

QA/QC Report

Parameter	Blank (ppm)		LCS (%)		CRM/MS (%)	
	Result	RL	Recovery	AR	Recovery	AR
Lead	<10	10	105	80-120	83	70-130

Parameter	Duplicate (%)					
	RPD	AR				
Lead	4.0	0-30				

LEGEND:

RL - Reporting Limit
LCS - Laboratory Control Sample
MS - Matrix Spike
AR - Acceptable Range
RPD - Relative Percent Difference

ANALYTICAL METHODS:

Metals (Lead) - Method # F-1, Rev. 4.5, Standard Operation Procedure for determination of Metals by the Inductively Coupled Plasma- Optical. Method used by Fisher Environmental Lab complies with the Standard Methods for the Examination of Water and Wastewater, 20th Ed 3120-B.

Authorized by: _____

Roger Lin, Ph. D., C. Chem.
Laboratory Manager

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CHARTERED
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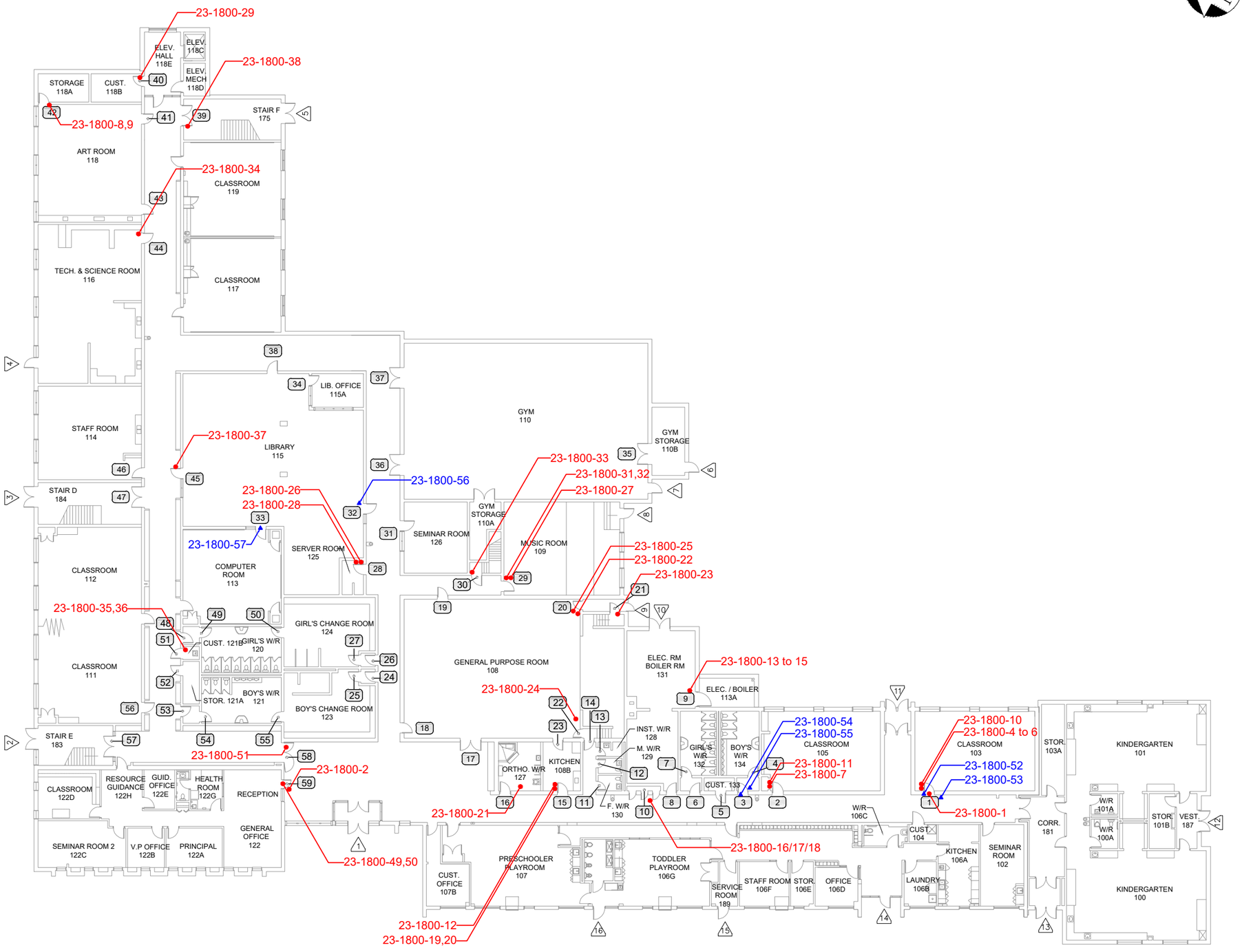
CHEMIST

APPENDIX B – SITE PLANS



Legend

- Asbestos Sample Location
- Lead Sample Location

Figure 1

LOCATION:

18357 Kennedy Road,
Caledon, Ontario

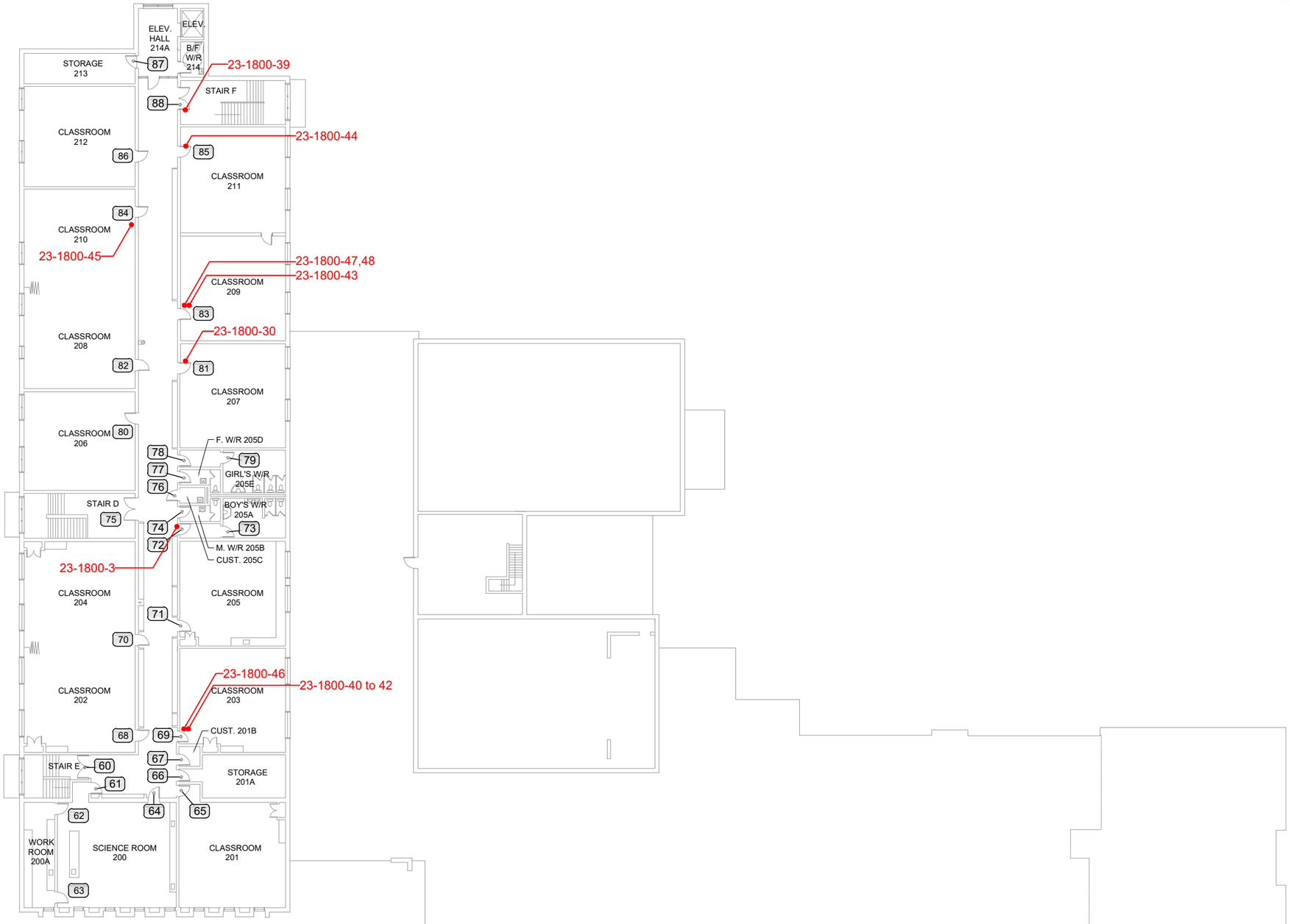
BUILDING NAME:

Caledon Central Public School

First Floor Plan -
Asbestos and Lead Sample Location

CLIENT: Engineering Link Inc.			
PROJECT NUMBER: FE 23-13303	**DATE:** September 2023	**DRW BY:** TL	
CAD FILE: FIG1	**SCALE:** Not to Scale	**CHK BY:** IF	

FISHER ENGINEERING



Legend

Asbestos Sample Location

Figure 2

LOCATION:

18357 Kennedy Road,
Caledon, Ontario

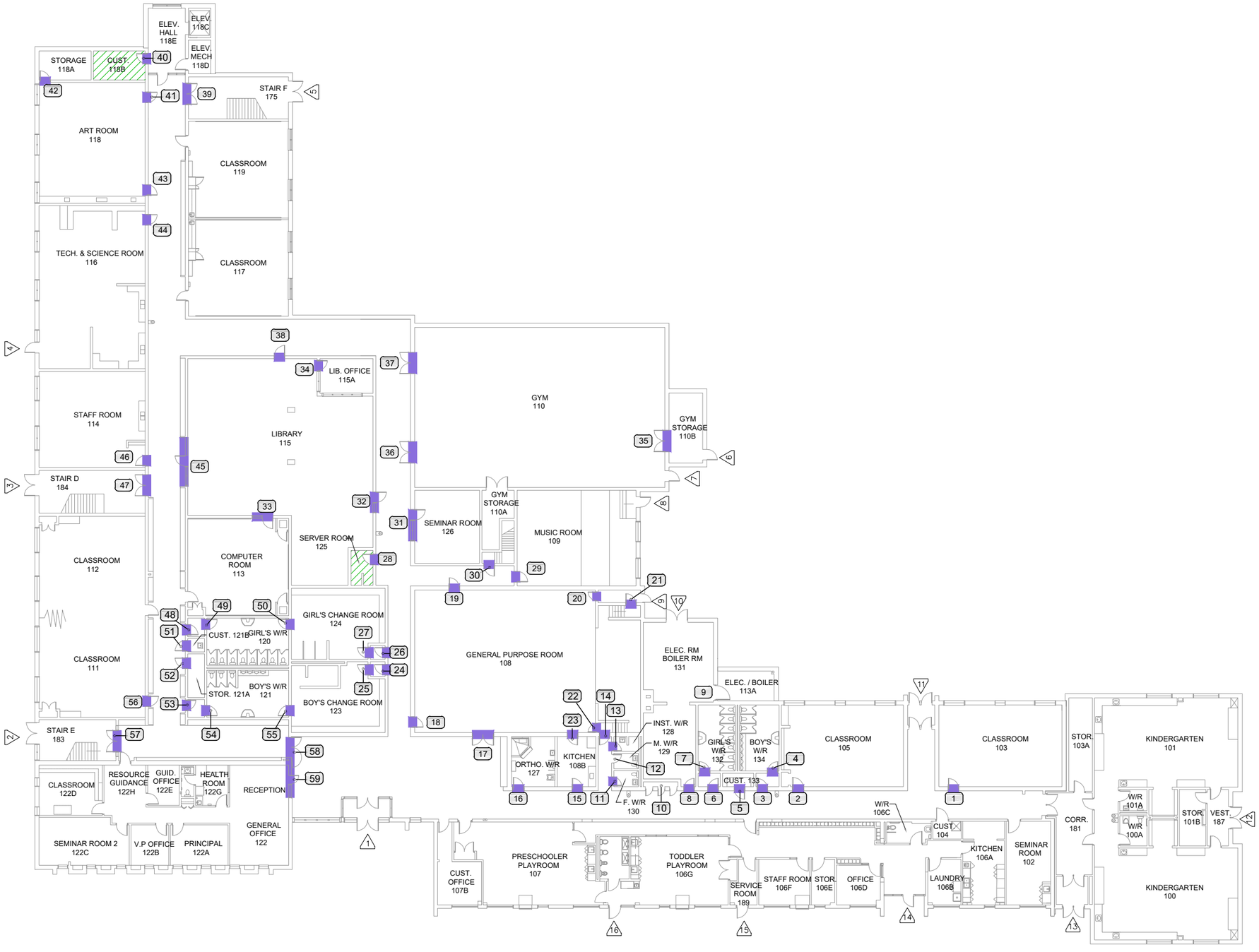
BUILDING NAME:

Caledon Central Public School

Second Floor Plan -
Asbestos Sample Location

CLIENT:	Engineering Link Inc.				
PROJECT NUMBER:	FE 23-13303	DATE:	September 2023	DRW BY:	TL
CAD FILE:	FIG1	SCALE:	Not to Scale	CHK BY:	IF

FISHER ENGINEERING



Legend

Asbestos-Containing Calking

Asbestos-Containing Vinyl Floor Tile

Figure 3

LOCATION:

18357 Kennedy Road,
Caledon, Ontario

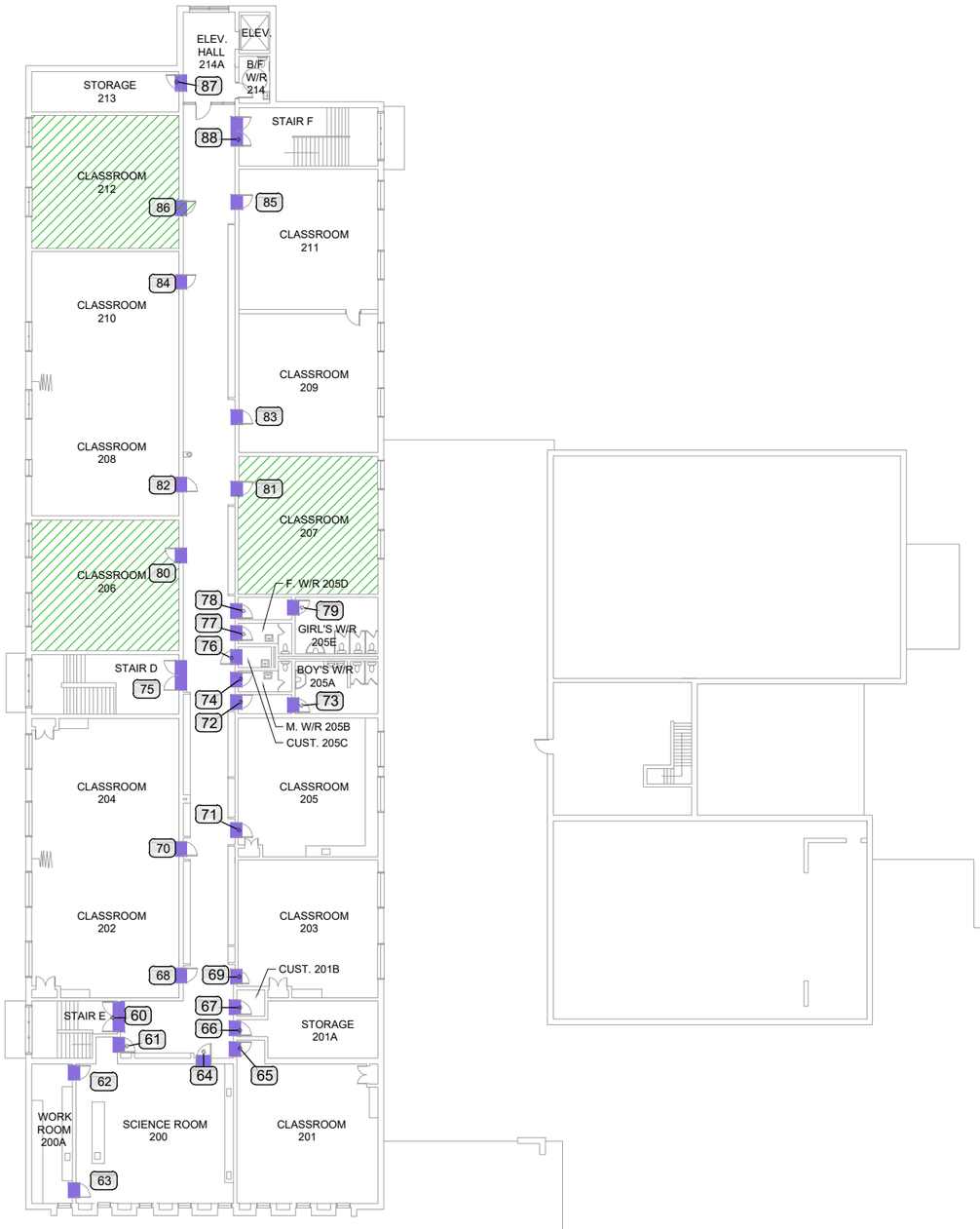
BUILDING NAME:

Caledon Central Public School

First Floor Plan -
Asbestos-Containing Material Location

CLIENT:	Engineering Link Inc.				
PROJECT NUMBER:	FE 23-13303	**DATE:**	September 2023	**DRW BY:**	TL
CAD FILE:	FIG3	**SCALE:**	Not to Scale	**CHK BY:**	IF

FISHER ENGINEERING



Legend

Asbestos-Containing Calking

Asbestos-Containing Vinyl Floor Tile

Figure 4

LOCATION:

18357 Kennedy Road,
Caledon, Ontario

BUILDING NAME:

Caledon Central Public School

Second Floor Plan -
Asbestos-Containing Material Location

CLIENT:	Engineering Link Inc.				
PROJECT NUMBER:	FE 23-13303	DATE:	September 2023	DRW BY:	TL
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FISHER ENGINEERING

APPENDIX C – SITE PHOTOGRAPHS

Photo 1: View of asbestos-containing cream caulking observed at the Site.

Photo 2: View of asbestos-containing cream caulking along the joints of the door frames and block walls observed at the Site.

Photo 3: View of asbestos-containing Vinyl Floor Tile 5, 12”x12” Green with White & Black Streaks in the Server Room.

Photos 4 & 5: View of non-asbestos containing brown/black sealant around the glass at the door.

Photo 6: View of grey paint on the door and door frame with elevated concentration of lead.

Appendix B Asbestos Abatement Specifications – Fisher Engineering

Asbestos Abatement Specification Document

Section Cover Page

Asbestos Abatement Specification Document

This Technical Specification Document contains:

1 This Cover Page
2 Site Plans
3 Work Procedure Text

Part 1 – About Asbestos

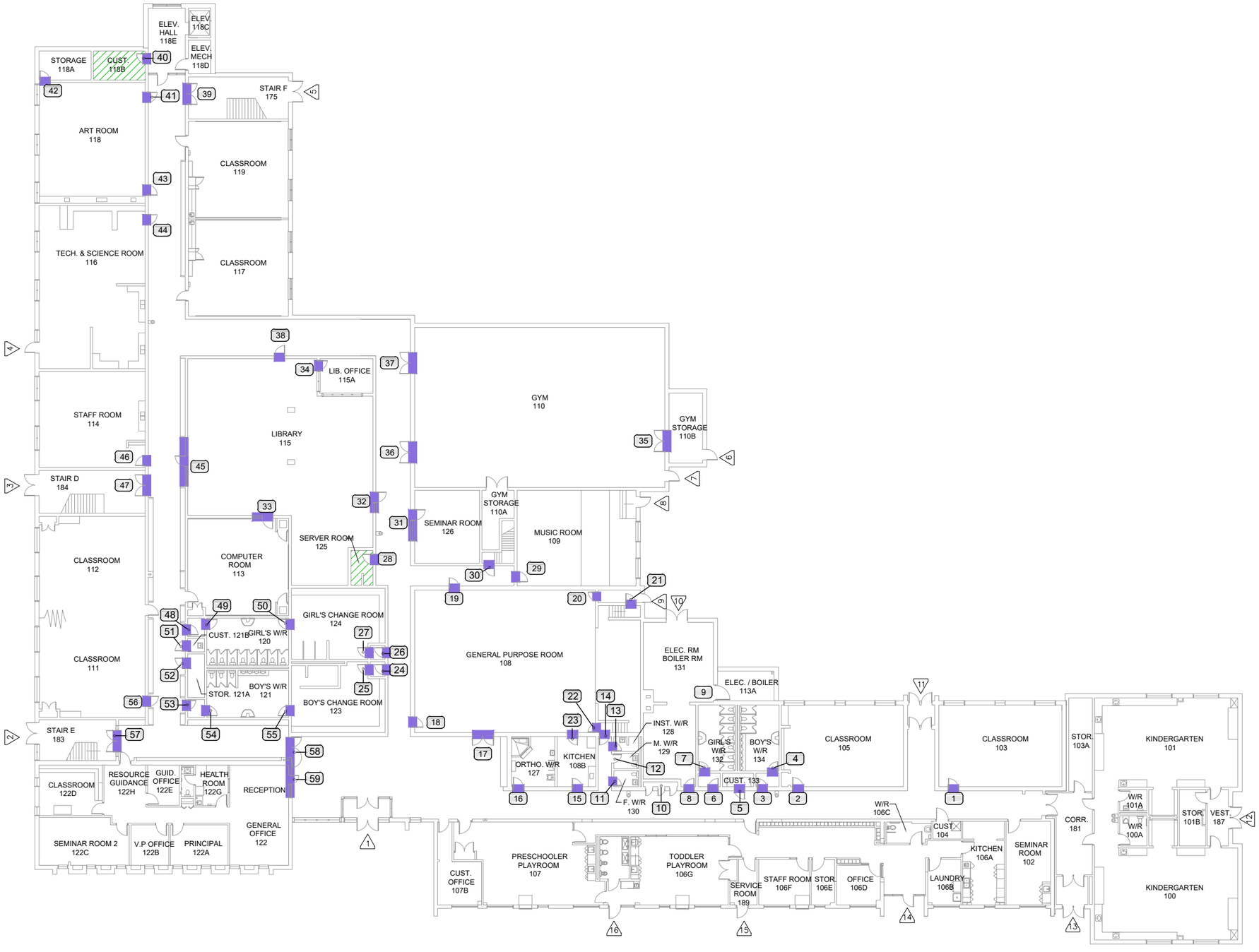
1.1 What is Asbestos
1.2 Asbestos-Containing Materials (ACM)
1.3 Health Hazard of Asbestos
1.4 Industry Terms/Definition

Part 2 – Abatement Specification Document – Asbestos-Containing Tan Caulking

2.1 General Conditions and Related Work
2.2 Work Area
2.3 Regulations
2.4 Proscriptions
2.5 Worker and Visitor Protection
2.6 Waste Transport and Disposal

Part 3 – Execution – Asbestos Abatement

3.1 Type 1 Removal Operations



Legend

Asbestos-Containing Calking

Asbestos-Containing Vinyl Floor Tile

Figure 1

LOCATION:

18357 Kennedy Road,
Caledon, Ontario

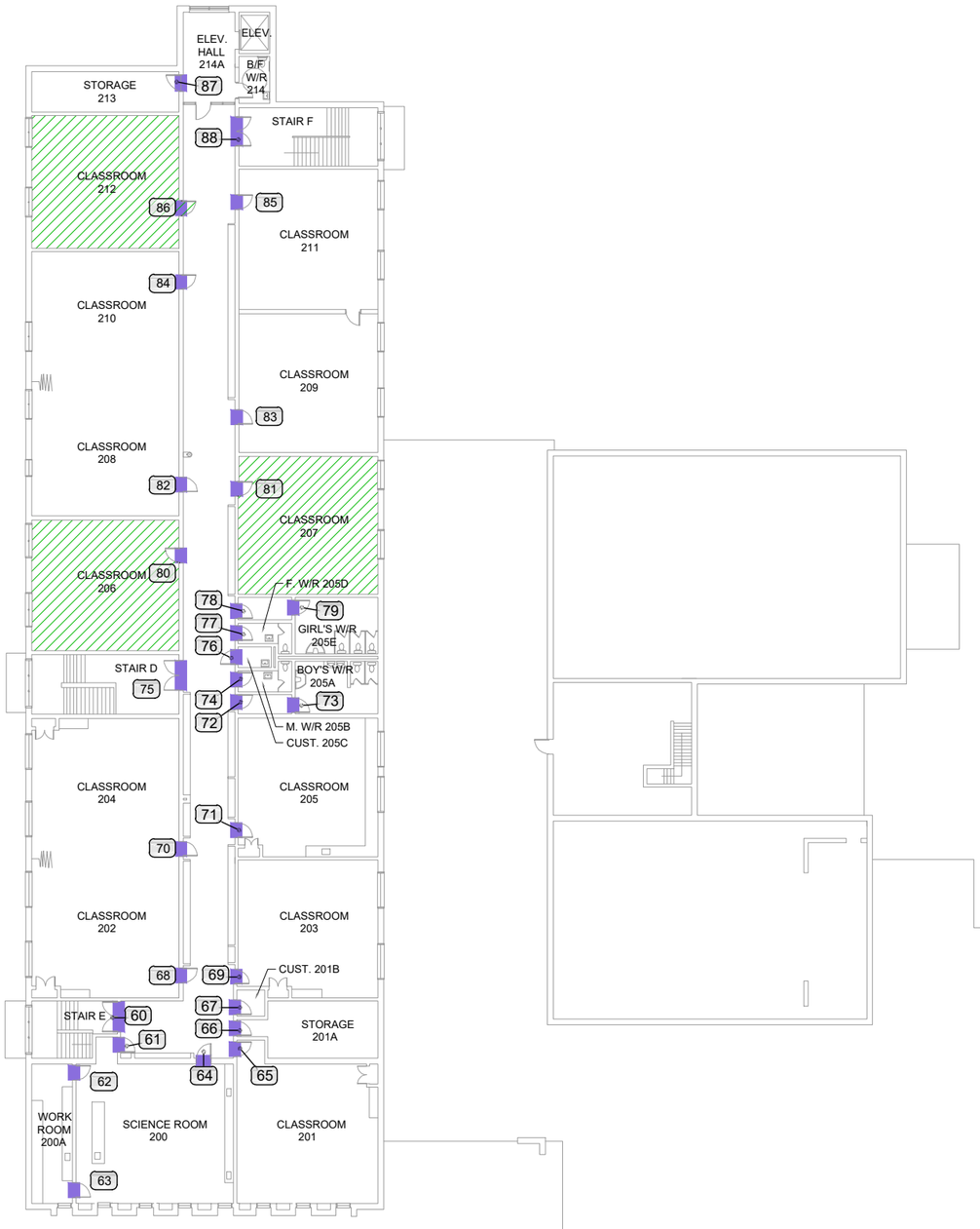
BUILDING NAME:

Caledon Central Public School

First Floor Plan -
Asbestos-Containing Material Location

CLIENT:	Engineering Link Inc.		
PROJECT NUMBER: FE 23-13398	**DATE:** October 2023	**DRW BY:** TL	
CAD FILE: FIG1	**SCALE:** Not to Scale	**CHK BY:** IF	

FISHER ENGINEERING



Legend

Asbestos-Containing Calking

Asbestos-Containing Vinyl Floor Tile

Figure 2

LOCATION:

18357 Kennedy Road,
Caledon, Ontario

BUILDING NAME:

Caledon Central Public School

Second Floor Plan -
Asbestos-Containing Material Location

CLIENT:	Engineering Link Inc.		
PROJECT NUMBER: FE 23-13398	DATE: October 2023	DRW BY: TL	
CAD FILE: FIG2	SCALE: Not to Scale	CHK BY: IF	

FISHER ENGINEERING

PART 1 – About Asbestos

1.1 What is Asbestos

Asbestos is a carcinogenic mineral. It consists of flexible fibers resistant to heat, electricity, and corrosion. These qualities make the mineral useful in many products. They also contribute to asbestos exposure toxicity. Construction materials contained asbestos because it is an effective insulator. Asbestos in cloth, paper, cement, plastic, and other materials makes them stronger. Inhaling or ingesting asbestos causes fibers to become trapped in the body. Over decades, trapped asbestos fibers can cause inflammation, scarring and cancer.

Based on their physical and chemical properties, there are two major groups of asbestos: serpentine and amphibole.

Serpentine: Serpentine fibres are long, flexible, and curved. These fibres can be woven together. The main type of serpentine asbestos is chrysotile (white asbestos), which is the main type of asbestos used in manufacturing.

Amphibole: Amphibole fibres are straight and stiff. These fibres are generally brittle and rod- or needle-shaped, which limits their commercial usefulness. There are 5 sub-types of amphibole asbestos, including:

- Crocidolite (blue asbestos)
- Amosite (brown asbestos)
- Actinolite
- Anthophyllite
- Tremolite

1.2 Asbestos-Containing Materials (ACM)

Because it has heat-resistant and insulating properties, asbestos was used in a wide range of manufactured products. Before 1990, asbestos was mainly used for insulating buildings and homes against cold weather and noise, and for fireproofing. Asbestos was used by industry, construction, and commercial sectors in products such as:

- Building materials (roofing shingles, roof sealants, ceiling and floor tiles, paper products and felts, house siding, and asbestos-containing cement and plaster products).
- Friction materials (automobile clutch pads, brake linings, pads and shoes, and transmission parts).
- Fire and heat protection wear.
- Industrial furnaces and heating systems.
- Asbestos textiles (fabrics).
- Heat, electrical, and sound insulation, or wrappings.
- Insulation for hot and cold areas.
- Packing materials, gaskets, linings, and coatings.
- Reinforcement of plastic products, thermoset and thermoplastic resins.
- Filler in resins, plastics and caulking and in asphalt road surfacing.

1.3 Health Hazard of Asbestos

The human health effects from long-term unsafe asbestos exposure are well documented. Asbestos fibres are easily inhaled and carried into the lower regions of the lung where they can cause fibrotic lung disease (asbestosis) and changes in the lining of the chest cavity (pleura). These diseases can lead to reduced respiratory function and death. Long-term inhalation of asbestos fibres also increases the risk of lung cancer and mesothelioma.

Enlargement of the heart can also occur as an indirect effect from the increased resistance of blood flow through the lungs. People are more likely to experience asbestos-related disorders if they:

- are exposed to high concentrations of asbestos,
- are exposed for longer periods of time, and/or
- are exposed to asbestos more frequently.

1.4 Industry Terms/ Definition

1.4.1 Abatement: Procedures to control fibre release from asbestos-containing building materials. Includes encapsulation, enclosure, and removal.

1.4.2 Amended Water: Water containing a wetting agent or surfactant that is to reduce water surface tension to allow proper wetting of asbestos material.

1.4.3 Asbestos: The term includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite, and any of these that have been chemically treated and/or altered.

1.4.4 Area Monitoring: Sampling of asbestos fibre concentrations within the asbestos control area and outside the asbestos control area which is representative of the airborne concentrations of asbestos fibres which may reach the breathing zone.

1.4.5 Asbestos Work/Control Area: An area where asbestos removal operations are performed which is isolated by physical boundaries to prevent the spread of asbestos dust, fibres, or debris.

1.4.6 Air Monitoring: The process of measuring the asbestos fibre content of a specific volume of air in a stated period of time.

1.4.7 Asbestos Containing Material (ACM): Any material analyzed and found to contain 0.5 percent more asbestos either alone or mixed with other fibrous or nonfibrous materials.

1.4.8 Asbestos Fibres: For this specification, asbestos fibres are those fibres 5 microns or longer having an aspect ratio of at least 3:1.

1.4.9 Barrier: Any surface that closes up the work area to prevent the movement of fibres.

1.4.10 Critical Barrier: One or more layers of plastic sealed over all openings into a regulated area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a regulated area from migrating to an adjacent area.

1.4.11 Contractor/Supervisor: An individual who supervises asbestos abatement work and has the proper qualifications and training as specified in this document.

1.4.12 Control Area: An area which is considered uncontaminated and is suitable for regular occupancy.

1.4.13 Disposal: Procedures necessary to transport and deposit the asbestos-contaminated material stripped and removed from the building, piping, and equipment in an approved waste disposal site in compliance with the applicable environmental regulations.

1.4.14 Demolition: The razing, removing, or wrecking of any building component, assembly or system together with any associated handling operations.

1.4.15 Dioctylphthalate (DOP) Test: A test method that uses Dioctylphthalate aerosol to challenge a HEPA filter-equipped negative pressure unit to determine its integrity and effectiveness to filter

1.4.16 Disposal Bag: A 0.15 mm 6 mil thick, leak-tight plastic bag, pre-labelled as containing asbestos waste and used for transporting asbestos waste from containment to disposal site.

1.4.17 Disturbance: Activities that disrupt the matrix of ACM, crumble or pulverize ACM, or generate visible debris from ACM.

1.4.18 Enclosure: All herein specified procedures are necessary to complete enclosure of all hazardous materials behind airtight, impermeable, permanent barriers.

1.4.19 Friable Asbestos Material: Material that when dry can be crumbled, pulverized, or powdered by hand pressure and includes material that is crumbled, pulverized or powdered.

1.4.20 HEPA Filter Equipment: High-efficiency particulate air filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibres. Filters shall be capable of trapping and retaining at least 99.97 percent of 0.3 micrometre diameter particles.

1.4.21 Non-friable Asbestos Material: Material that contains asbestos in which the fibres have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not release fibres during any appropriate use, handling, demolition, storage, transportation, processing, or disposal.

1.4.22 Negative Pressure Respirator: A respirator in which the air inside the respiratory inlet covering is negative during inhalation in relation to the air pressure of the outside atmosphere and positive during exhalation in relation to the air pressure of the outside atmosphere.

1.4.23 Personal Monitoring: Sampling of asbestos fibre concentrations within the breathing zone (within 12 inches of the mouth) of an employee.

1.4.24 Personnel: Supervisors, Contractor employees, subcontractor employees.

1.4.25 Positive Pressure Respirator: A respirator that maintains a positive pressure inside the facepiece during inhalation and exhalation in relation to the atmospheric pressure.

1.4.26 Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.

1.4.27 Tape-Sealed Polyethylene Sheets: Rip-proof polyethylene sheets or polyethylene sheets of type and thickness as specified, sealed with tape along the edges, around objects, over cuts and in other locations as required to provide a continuous polyethylene membrane to protect underlying surfaces from water damage and damage by sealant and to prevent the escape of asbestos fibres through the sheeting into a clean area.

1.4.28 Wet Cleaning: The process of eliminating asbestos from building surfaces and objects by using cloths, mops, or other cleaning tools dampened with water.

1.4.29 Work Decontamination Enclosure System: A decontamination system for workers, consisting of a clean room, a shower room, and an equipment room. One entrance to the clean room shall be outside of the contaminated area. One entrance to the equipment room shall be connected directly to the contaminated area.

1.4.30 Work: Includes all labour, supervision, materials, and equipment required for the complete execution of the project as specified in the contract.

PART 2 – Abatement Specification Document – Asbestos-Containing Caulking

2.1 General Conditions and Related Work

2.1.1 This abatement specification document was prepared based on the findings from the Designated Substance Survey reports completed by Fisher Engineering Limited; "Pre-reno Designated Substance Survey, Caledon Public School, 18357 Kennedy Road, Caledon, ON, Project No. 23-13303, dated September 19, 2023.

2.1.2 The following document will serve as the scope of work for asbestos-containing tan caulking abatement project from the interior door frames. Additionally, this document will serve as well as the scope of work for asbestos-containing vinyl floor tile (12"x12" Green with Beige Streaks) if this material is impacted during planned renovations. The scope of work details all work activities to be included and the methodology to be employed.

2.1.3 It is the intent to replace the existing door with tan calking, therefore, the work performed as outlined in this section will result in the removal and disposal of asbestos-containing tan caulking and materials that become contaminated by asbestos, as a result of the work.

2.1.4 The abatement Contractor shall remove and dispose of asbestos-containing tan caulking **following the Type 1 Operation procedures**, as per the Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.

2.1.5 If the asbestos-containing vinyl floor tile (12"x12" Green with Beige Streaks) becomes disturbed during the renovation works, the abatement Contractor is required to follow the **Type 1 Operation procedures** for the removal and disposal of asbestos-containing vinyl floor tiles. This procedure must adhere to the guidelines outlined in the Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.

2.1.6 **The Type 1 Operation Procedure**:

- Installing or removing non-friable asbestos-containing material, other than ceiling tiles, if the material is installed or removed without being broken, cut, drilled, abraded, ground, sanded or vibrated.
- Breaking, cutting, drilling, abrading, grinding, sanding, or vibrating non-friable asbestos-containing material if,
    - the material is not wetted to control the spread of dust or fibres, and
    - the work is done only by means of non-powered hand-held tools.

2.1.7 The Contractor shall comply with all local, provincial, and federal requirements (regulations, codes, standards and guidelines) relating to asbestos abatement and other work activities being carried out.

2.1.8 Perform work following the requirements of the various regulations and guidelines in effect at the time the work is being carried out.

2.1.9 The regulations, codes, standards, and guidelines shall include, but are not limited to:

- Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05;
- Designated Substances Regulation, Ontario Regulation 490/09;
- Ontario Occupational Health and Safety Act;
- Ministry of Labour Occupational Health and Safety Act Ontario Regulation 213/91 Construction Projects, as amended to O. Reg. 628/05; and
- WHMIS Regulations.

2.1.10 In cases of conflict between procedures outlined in this document, the more stringent requirement will apply.

2.2 Work Area – Interior Doors:

- Asbestos-containing tan caulking was found around the interior side of the door frames throughout the Site.

2.2.1 The contractor shall remove and dispose of asbestos-containing tan caulking **following the Type 1 Operation procedures**, as per the Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05, and the procedures are as follows:

2.2.1.1 Pre-clean and protect all unaffected surfaces in the immediate vicinity of the work area by HEPA vacuuming and the use of poly sheeting respectively. This includes securing a poly drop sheet to the floor directly below the work area.

2.2.1.2 For the Type 1 operations, signs should be posted in sufficient numbers to warn of the asbestos operations. There should be a sign, at least, at each entrance to the work area. The signs should display the following information in large, clearly visible letters:

a) Caution: Asbestos Exposure
b) Access to the work area is restricted to authorized persons; and
c) Respirators must be worn in the work area.

2.2.1.3 Workers are not permitted to eat, drink, chew gum or smoke in the work area.

2.2.1.4 The spread of dust from the work area shall be controlled by measures appropriate to the work to be done, including the use of drop sheets of polyethylene or other suitable material that is impervious to asbestos.

2.2.1.5 Protective clothing shall be provided by the employer and worn by every worker who enters the work area, and the protective clothing,

- shall be made of a material that does not readily retain nor permit penetration of asbestos fibres,
- shall consist of head covering and full body covering that fit snugly at the ankles, wrists and neck, in order to prevent asbestos fibres from reaching the garments and skin under the protective clothing,
- shall include suitable footwear, and
- shall be repaired or replaced if torn.

2.2.1.6 The material shall be wet before and kept wet during the work to control the spread of dust or fibres unless wetting would create a hazard or cause damage.

2.2.1.7 A wetting agent shall be added to the water that is to be used to control the spread of dust and fibres.

2.2.1.8 Dust and waste shall be cleaned up and removed using a vacuum equipped with a HEPA filter, or by damp mopping or wet sweeping, and placed in a waste bag.

2.2.1.9 Compressed air shall not be used to clean up and remove dust from any surface.

2.2.1.10 Remove all waste generated by the abatement work, including, but not limited to, building debris, disposable coveralls, respirator cartridges, and plastic sheeting. Seal all waste into 6 mil nominal disposal bags. Wet wipe or clean the bags with a HEPA vacuum and finally double-bag in a second clean 6 mil nominal bag or suitable sealed container.

2.2.1.11 Clean all equipment used in the abatement work (e.g., vacuum cleaner, knives, saws) using a HEPA vacuum and wet wiping. Equipment that cannot be readily cleaned (e.g., vacuum hose or wire brushes) shall be HEPA vacuumed and sealed in 6 mil polyethylene bags or a suitable sealed container before removal from the work area.

2.2.1.12 Dispose of the waste materials in compliance with local, provincial, and federal regulations.

2.2.1.13 Wash face and hands, and clean and maintain respirator after completion of asbestos abatement. Contractors will be required to provide any water for washing and cleaning hands and face for workers leaving the work area.

2.2.1.14 All the waste generated in the Work Area shall be double bagged using asbestos labelled yellow bags and disposed of as asbestos waste.

2.2.1.15 The abatement Contractor shall be responsible for the disposal of all waste generated as part of the project. This includes the costs related to the procurement of waste bins and the associated handling, transportation, and disposal fees.

2.3 Regulations

2.3.1 The Contractor shall comply with all local, provincial, and federal requirements relating to asbestos.

2.3.2 In case of conflict among the above-mentioned requirements or with these specifications, the more stringent requirements shall apply.

2.3.3 Perform work following the requirements of the various regulations in effect at the time the work is being carried out.

2.3.4 The regulations shall include but are not limited to:

2.3.4.1 Ontario Occupational Health and Safety Act.

2.3.4.2 Ontario Regulation 278/05, Regulation Respecting Asbestos on Construction Projects and in Building and Repair Operations.

2.3.4.3 The Designated Substances Regulation, Ontario Regulation 490/09.

2.3.4.4 Ontario Ministry of Environment Regulation 347 (as amended) for the disposal of asbestos waste made under the Environmental Protection Act.

2.3.4.5 Standard Construction Document, Canadian Construction Association, CCA 82 - 2004.

2.3.4.6 Regulations respecting the Handling, Offering for Transport and Transportation of Dangerous Goods.

2.3.4.7 WHMIS Regulations.

2.4 Proscriptions

2.4.1 The use of compressed air for removal or clean-up of asbestos dust and debris from any surface is not allowed.

2.4.2 Smoking, eating, drinking, or chewing is not allowed in the work area.

2.4.3 Unauthorized persons or persons not using proper personal protective equipment shall not be allowed to enter the work area.

2.5 Worker and Visitor Protection

2.5.1 Instruct all personnel (workers and visitors) in all aspects of work procedures and protective equipment before allowing entry into the asbestos abatement work areas.

2.5.2 A competent person (as defined by the Occupational Health and Safety Act) shall provide all the training and instructions.

2.5.3 Instructions and training shall include, but shall not be limited to, the following:

2.5.3.1 Entry and exit from asbestos abatement work areas.

2.5.3.2 Work practices and personal hygiene.

2.5.3.3 The use, cleaning and care of respirators and protective clothing.

2.5.3.4 Protective measures and work procedures.

2.5.4 Asbestos work area entry and exit procedures shall be posted.

2.5.5 Respiratory Protection:

2.5.5.1 All personnel required to wear respirators shall be fit tested either by a qualitative or quantitative fit testing method.

2.5.6 Each worker or visitor required to enter an asbestos abatement work area shall be provided with a personally issued respirator that is:

2.5.6.1 Appropriate for the work that is being carried out.

2.5.6.2 Acceptable to the Ministry of Labour, Occupational Health, and Safety Division.

2.5.6.3 The worker shall be responsible for wearing a respirator that is issued by the Contractor.

2.5.7 The following criteria, outlined in Table 1, shall be followed when selecting an appropriate respirator:

Table 1: Respirators – Asbestos

Column 1	**Column 2**
Work Category	**Required respirator**
Type 1 Operations	
Worker requests that the employer provide a respirator to be used by the worker, as described in paragraph 12 of section 14	Air purifying half-mask respirator with N-100, R-100 or P-100 particulate filter

2.5.8 Protective Clothing:

2.5.8.1 The Contractor shall provide every worker and authorized visitor with full body disposable coveralls.

2.5.8.2 All personnel shall wear protective coveralls before they are allowed to enter the asbestos removal work area.

2.5.8.3 Coveralls shall be equipped with head covering (hood), foot covering and tight-fitting cuffs at the neck, ankles, and wrists.

2.5.8.4 The disposable coveralls shall be made up of materials that do not readily permit the penetration of asbestos fibres.

2.5.8.5 Disposable coveralls shall be immediately repaired (using duct tape) or replaced once torn.

2.5.8.6 Coveralls shall be disposed of as asbestos waste once they are worn inside an asbestos abatement area.

2.5.8.7 Workers are allowed to wear reusable protective clothing provided that the clothing is left in the equipment room until the end of the asbestos abatement project. The clothing shall then be disposed of as asbestos waste.

2.5.9 Safety shoes, hard hats and additional body protection equipment shall be used as necessary to meet the requirements of applicable safety regulations.

2.6 Waste Transport and Disposal

2.6.1 All hazardous materials, including but not limited to, asbestos-containing materials, existing asbestos contaminated materials and materials that become contaminated by asbestos as a result of the work, shall be disposed of as prescribed by Ontario Regulation 347, Waste Management Regulation, made under the Environmental Protection Act and the provincial and federal regulations for the Transportation of Dangerous Goods.

2.6.2 All non-asbestos-containing waste generated during abatement activities inside an asbestos work area shall be treated as asbestos waste.

2.6.3 Non-porous materials that can be washed and properly cleaned can be disposed of as clean waste.

2.6.4 The waste must be stored and transported in an enclosed, lockable waste bin.

2.6.5 Every vehicle used for the transportation of asbestos waste shall display a Class 9 Label.

2.6.6 Both sides of the vehicle used for the transportation of asbestos waste and every waste bag and container shall display the word CAUTION in letters not less than 10 cm in height and the words:

CONTAINS ASBESTOS FIBRES

Avoid Creating Dust

Asbestos May Be Harmful to Your Health

Wear Approved Protective Equipment

2.6.7 The transport vehicle must be properly equipped to deal with asbestos waste spills. Equipment shall include, but is not limited to, respiratory protective equipment, disposable protective clothing, 6 mil polyethylene bags, shovel and broom and wetting agent.

2.6.8 For asbestos waste of unknown material or an asbestos type other than Chrysotile, the words Asbestos, Blue, and Product Identification Number must be displayed on every waste container.

2.6.9 For Chrysotile asbestos, the words Asbestos, White, and Product Identification Number must be displayed on every waste container.

PART 3 – EXECUTION – ASBESTOS ABATEMENT

3.1 Type 1 Removal Operation

3.1.1 Initial Preparation and Isolation of Work Areas: Unless specified, work carried out as part of this phase shall proceed as follows:

3.1.1.1 Survey the work areas to compile an inventory of existing damages and provide a copy to the Client.

3.1.1.2 The Contractor is responsible for moving materials and objects which are present in the work areas.

3.1.1.3 Prevent the spread of dust from the work area using measures appropriate to the work to be done.

3.1.1.4 Shut off, lockout and seal all ventilation duct vents with the application of one layer of 6 mil (0.15mm) thick clear polyethylene sheet sealed with tape.

3.1.1.5 Use polyethylene drop sheets on all flooring in work areas where dust and contamination cannot otherwise be thoroughly cleaned.

3.1.1.6 Use one layer of 6 mil (0.15 mm) thick clear polyethylene sheets to cover walls.

3.1.1.7 Separate parts of the building required to remain in use from the work area by polyethylene drop sheets at the perimeter of the work area.

3.1.1.8 Separate the work area with clearly visible warning signs advising of the hazards of asbestos dust and that entry is restricted to authorized trained personnel wearing personal protective equipment.

3.1.2 Entry and Exit Procedures from Asbestos Removal Work Areas: the following general procedures shall be adhered to when entering and exiting from asbestos abatement work areas:

3.1.2.1 Work Area Entry Procedures:

3.1.2.1.1 Every worker and visitor planning to enter the work area should remove all street clothing and should store them in a designated clean change room.

3.1.2.1.2 The person shall then put on a disposal coverall with head covering, respirators with clean filters and foot covering and shall proceed to the work area.

3.1.2.2 Work Area Exit Procedures:

3.1.2.2.1 Each worker shall decontaminate their protective clothing, boots, and respirator by first HEPA vacuuming and then by damp wiping using soap and water.

3.1.2.2.2 The removed disposable coveralls shall be disposed of as asbestos waste in a 0.15 mm (6 mil) labelled waste bag. Respirator filter inlets shall be sealed in tape or disposed of as asbestos waste.

3.1.3 Asbestos Removal Procedures

3.1.3.1 Asbestos Removal shall not commence until:

3.1.3.1.1 The work area is effectively separated from clean areas of the building.

3.1.3.1.2 Warning signs are posted outside the removal work areas.

3.1.3.1.3 All surfaces which are not possible to clean are sealed with polyethylene sheeting and tape.

3.1.3.1.4 Arrangements have been made for waste disposal, the landfill site operator has been contacted and the storage bin is on site.

3.1.3.1.5 Tools equipment and materials are on hand and in the work area.

3.1.3.1.6 Facilities for the washing of hands and face are available for workers leaving the work area.

3.1.3.2 Before beginning work remove visible dust from surfaces in the work area where dust is likely to be disturbed during the course of work. Use HEPA vacuum or damp cloths where damp cleaning does not create a hazard and is otherwise appropriate. Do not use compressed air to clean up or remove dust from any surface.

3.1.3.3 Wet materials containing asbestos to be cut, ground, abraded, drilled, or otherwise disturbed with amended water. Use garden-type low-velocity fine mist sprayer. Perform work in a manner to reduce dust creation to the lowest levels practicable. Spray asbestos material repeatedly during the work process to minimize asbestos fibre release.

3.1.3.4 Remove material in sections as intact as possible.

3.1.3.5 Frequently during the work and immediately after completion of the work, clean up dust and waste containing asbestos using a HEPA vacuum or by damp wiping.

3.1.4 Final Clean

3.1.4.1 When removal is complete, clean the entire work area with HEPA vacuuming and wet wiping.

3.1.4.2 The work area shall be deemed clean when there is no visible residue, dirt, film, stain, or discolouration resulting from either asbestos removal or cleaning activities.

3.1.4.3 After completion of the initial cleaning, spray sealant on all surfaces in the work area, including, but not limited to:

3.1.4.3.1 Where asbestos material has been removed.

3.1.4.3.2 Polyethylene sheeting used on walls, floors, and ceilings.

3.1.4.4 Sealant should be sprayed using a garden reservoir type low-velocity fine mist sprayer. The sprayer cannot be used if the nozzle is partially obstructed, or if a uniform fine mist spray cannot be obtained.

3.1.4.5 After the area is declared clean and approval to proceed has been received:

3.1.4.5.1 Dismantle boundaries and isolate barriers as asbestos waste. Drop sheets shall be wetted and folded to contain dust and then placed in waste bags.

3.1.4.5.2 Immediately before their removal from the work area, and disposal, clean each filled labelled waste bag using damp cloths or a HEPA vacuum and place it in a second clean clear polyethylene waste bag.

3.1.4.5.3 Dispose of waste as per procedures specified in subsection 2.6 Waste Transport and Disposal.

3.1.4.6 Repair or replace objects damaged in the course of the work. Re-establish objects moved to temporary locations in the course of the work, in their proper positions. Re-secure mounted objects removed in the course of the work in their former positions.

The End

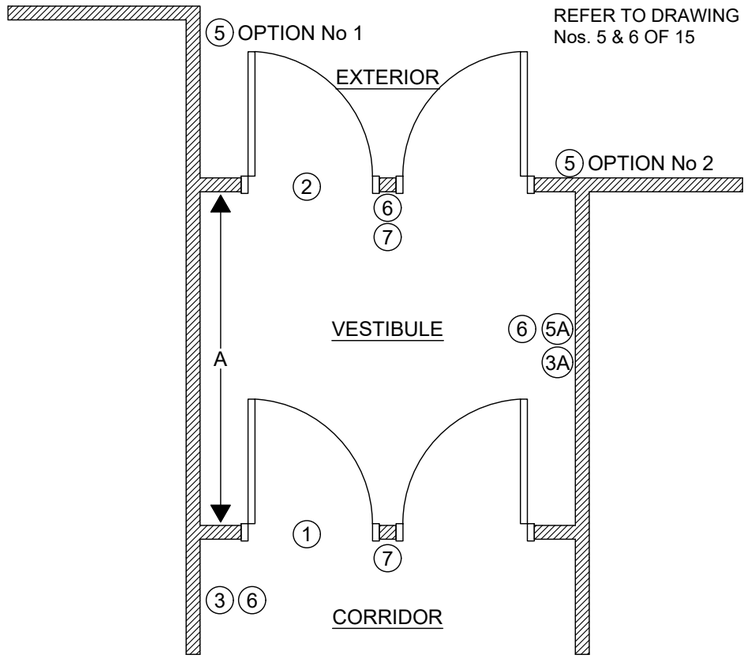
Appendix C Door Operator Drawings

AUTOMATIC DOOR OPERATOR &
EMERGENCY CALL SYSTEM
WIRING DIAGRAMS

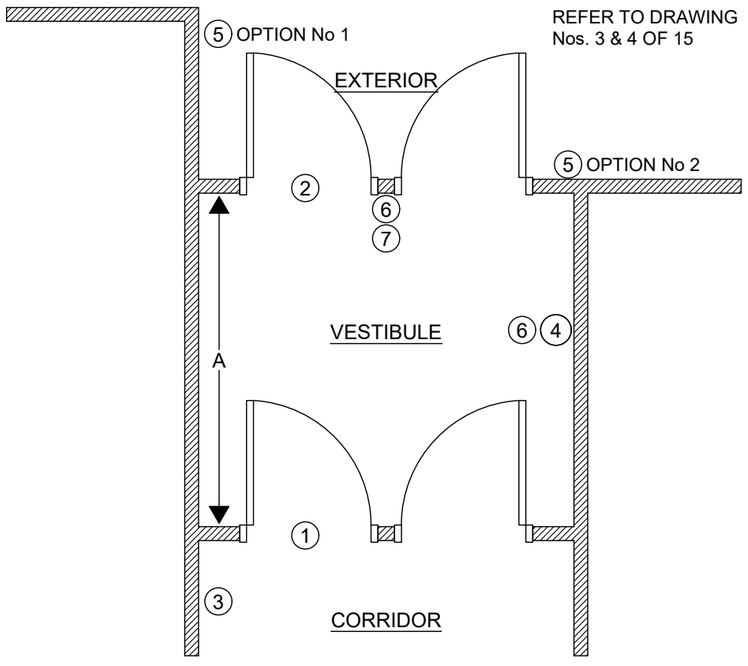
UPDATED: MAY 2023

LIST OF DRAWINGS:

peel District School Board



TYPICAL PART PLAN OF ENTRANCE AND EXIT
WHEN "A" IS GREATER THAN 1500mm
(PLUS THE WIDTH OF THE DOOR)



TYPICAL PART PLAN OF ENTRANCE AND EXIT
WHEN "A" IS LESS THAN 1500mm
(PLUS THE WIDTH OF THE DOOR)

LEGEND:

1. INTERIOR DOOR OPERATOR
2. EXTERIOR DOOR OPERATOR
3. INTERIOR PUSH BUTTON
3A. VESTIBULE PUSH BUTTON INTERIOR OPERATION
4. ENTRAPMENT PUSH BUTTON
5. EXTERIOR PUSH BUTTON
5A. VESTIBULE PUSH BUTTON EXTERIOR OPERATION
6. KEY SWITCH WITH RED AND GREEN LED. (BEST CORE TYPE) C/W CM-307 CYLINDER (ONLY ONE KEY SWITCH/OPERATOR. REPETITIVE NUMBER INDICATES ALTERNATE LOCATIONS. PREFERRED LOCATION IS WALL MOUNTED ABOVE PUSH PLATE) AND LAMACOID "DOOR OPERATOR" LABEL.
7. ELECTRIC STRIKE (SURFACE MOUNTED) ONLY REQUIRED ON INTERIOR DOOR WITH A LATCH

GENERAL NOTES AND SPECIFICATIONS:

LOCATION AND MOUNTING OF PUSH BUTTONS:

ALL PUSH BUTTONS ARE TO BE MOUNTED NOT LESS THAN 600mm AND NOT MORE THAN 1500mm BEYOND THE DOOR SWING WHERE THE DOOR OPENS TOWARD THE CONTROL AND 1003.3mm (38½" OR 980mm) TO CENTER ABOVE FINISHED FLOOR. INSTALLATION TO BE O.B.C. AND O. REG. 368/13 COMPLIANT.

VESTIBULE AND ENTRAPMENT PUSH BUTTONS:

IF THE DISTANCE FROM THE INTERIOR DOOR TO THE EXTERIOR DOOR IS 1500mm (+DOOR WIDTH) OR LESS, ONLY ONE VESTIBULE PUSH BUTTON SHALL BE INSTALLED. THIS **"ENTRAPMENT"** PUSH BUTTON SHALL OPEN THE EXTERIOR DOOR ONLY. THE PURPOSE OF THE **"ENTRAPMENT"** PUSH BUTTON IS TO PERMIT SOMEONE TRAPPED IN THE VESTIBULE TO SAFELY EXIT THE BUILDING. WHERE AN **"ENTRAPMENT"** PUSH BUTTON IS INSTALLED, THE INTERIOR AND EXTERIOR DOOR OPERATORS MUST BE SEQUENCED TO OPEN ACCORDINGLY WITH THE DIRECTION OF TRAVEL TO ELIMINATE THE NEED TO OPERATE THE **"ENTRAPMENT"** PUSH BUTTON IN THE CONFINED SPACE.

IF THE DISTANCE FROM THE INTERIOR DOOR TO THE EXTERIOR DOOR EXCEEDS 1500mm (+DOOR WIDTH), TWO VESTIBULE PUSH BUTTONS SHALL BE INSTALLED. THE INTERIOR AND EXTERIOR DOOR OPERATORS WILL FUNCTION INDEPENDENTLY OF EACH OTHER ON THE ACTIVATION OF THEIR RESPECTIVE PUSH BUTTONS.

PUSH BUTTON: CAMDEN PART # CM60/4.
STAINLESS STEEL ESCUTCHEONS:
CAMDEN PART # CM-89S

ALL PUSH PLATES TO BE MOUNTED AT 38½" OR 980mm TO CENTER ABOVE FINISHED FLOOR.

LOCATION AND MOUNTING OF KEY SWITCH:

THE KEY SWITCH SHALL BE MOUNTED IN THE MULLION OF THE EXTERIOR DOOR ON THE LATCHING SIDE AT 1676.4mm (5'-6") TO CENTER ABOVE FINISHED FLOOR. IF NOT POSSIBLE, THIS SWITCH COULD BE MOUNTED ON THE ADJACENT WALL AT1676.4mm (5'-6") TO CENTER ABOVE FINISHED FLOOR. WALL MOUNTED KEY SWITCH SHALL BE DIRECTLY ABOVE INTERIOR PUSH PLATE. ALL KEY SWITCHES MUST HAVE LAMACOID LABEL "DOOR OPERATOR", SUPPLIED BY THE PDSB, INSTALLED TO BE CONSIDERED COMPLETE INSTALLATIONS.

THE KEY SWITCH SHALL NOT BE MOUNTED IN A REMOVABLE MULLION.

THE KEY SWITCH, WHEN **"ACTIVATED"** SHALL BE WIRED TO DISABLE THE USE OF THE EXTERIOR PUSH BUTTON AND THE **"RED"** L.E.D. SHALL BE ILLUMINATED.

THE KEY SWITCH, WHEN "**DE-ACTIVATED"** SHALL BE WIRED TO ENABLE THE USE OF THE EXTERIOR PUSH BUTTON AND THE **"GREEN"** L.E.D. SHALL BE ILLUMINATED.

KEY SWITCH PART NUMBERS:
CAMDEN CAM-1190-7224 W10E C/W CM-307 CYLINDER OR CM-2090-7224 NARROW. COMPLETE WITH STANLEY STRAIGHT COLLAR CAT. NO. IER707-626

ALL WIRING TO BE CONCEALED IN WALLS OR MULLIONS WHERE POSSIBLE, OTHERWISE V700 WIREMOLD OR ALUMINUM RIGID CONDUIT SHALL BE SPECIFIED BY THE PROJECT MANAGER. 120V AC WIRING MUST BE A MINIMUM #12 AWG COPPER AND CONTROL WIRING #18 AWG COPPER.

ELECTRIC STRIKE:

WHERE REQUIRED THE ELECTRIC STRIKE SHALL BE SURFACE MOUNTED.
CAT. NO. HES9600 OR HES 9400

OPTIONAL DEVICES:

IF AN EXTERIOR DOOR HAS AN OPTIONAL ENTRY DEVICE SUCH AS A CARD READER OR KEY PAD, THIS DEVICE SHALL BE INSTALLED BY OTHERS TO PROVIDE ONLY A SET OF DRY CONTACTS WHICH SHALL BE CONNECTED TO THE SPECIFIED RELAY AS INDICATED ON THE APPROPRIATE WIRING DIAGRAM. OPERATION OF THE OPTIONAL DEVICE WILL RELEASE THE STRIKE AND ENABLE THE EXTERIOR PUSH PLATE FOR APPROXIMATELY SEVEN (7) SECONDS.

peel District School Board

GENERAL NOTES:

N1: ITEMS 3, 3A, 5, AND 5A WHEN INSTALLED ON THE FOLLOWING DOORS MUST BE CAMDEN WAVE SENSORS (CAT. NO. CM-331/43S-SGLR)

a.) MAIN SCHOOL ENTRANCE
b.) MAIN OFFICE ENTRANCE DOOR
c.) MAIN LIBRARY ENTRANCE
d.) CHILD CARE MAIN ENTRANCE

DATE: May. 19, 23
DRAWN BY: A. YANQUI
SCALE: N.T.S.
APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

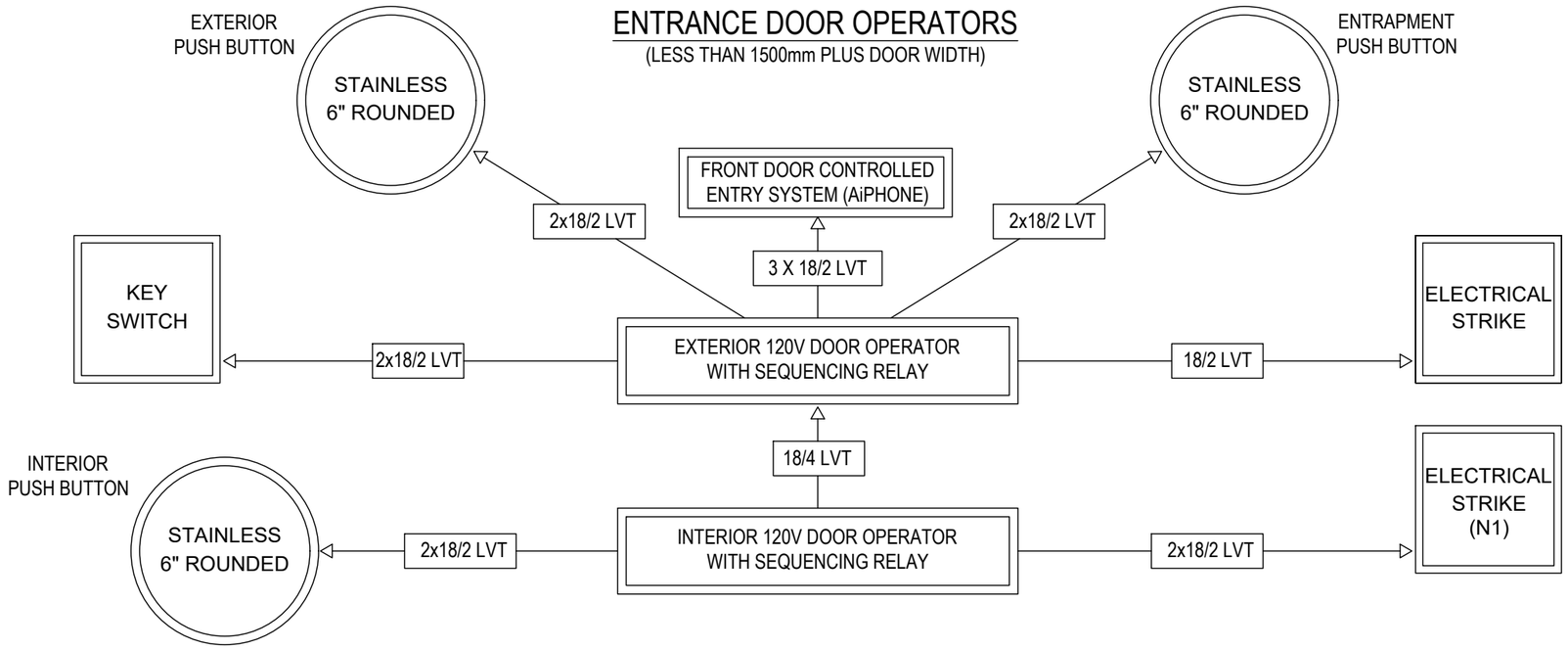
SAMPLE DIAGRAM: WIRING DIAGRAM

DRAWING TITLE: LAYOUT FOR AUTOMATIC VESTIBULE DOOR OPERATORS

SHEET NUMBER: 1 OF 20

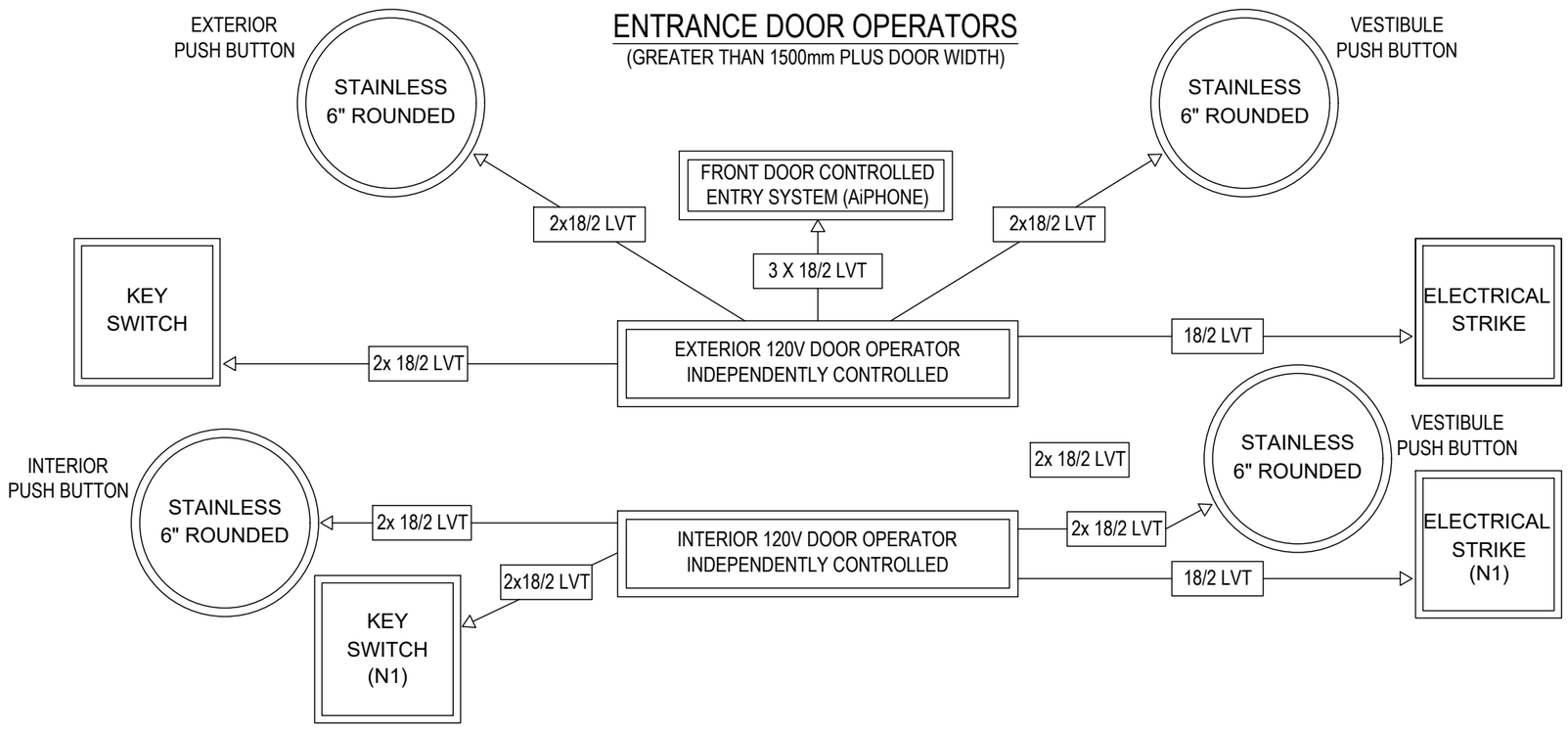
ENTRANCE DOOR OPERATORS

(LESS THAN 1500mm PLUS DOOR WIDTH)



ENTRANCE DOOR OPERATORS

(GREATER THAN 1500mm PLUS DOOR WIDTH)



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GENERAL NOTES:

N1: STRIKE AND LED KEY SWITCH ON INTERIOR DOOR OPERATOR ONLY REQUIRED IF CENTER MULLION HAS A LATCH.

N2: ALL CONTROL WIRING SHALL BE A MINIMUM #18 AWG SOLID COPPER

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:

WIRING DIAGRAM

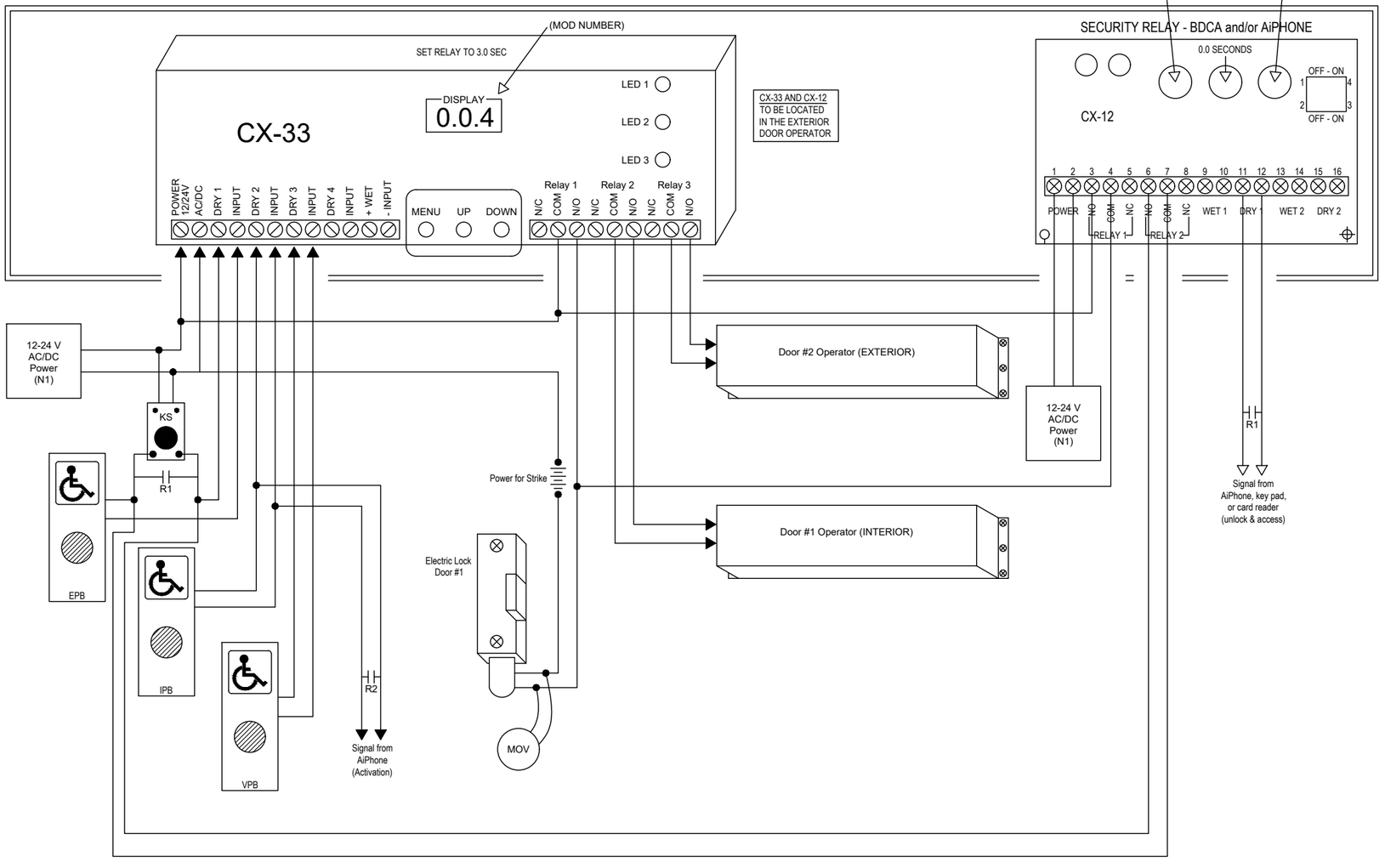
DRAWING TITLE:

LAYOUT FOR AUTOMATIC VESTIBULE DOOR OPERATORS

SHEET NUMBER:

2 OF 20

EXTERIOR CONTROLLED ENTRY SYSTEM



LEGEND:

- ● GREEN LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE
- ● RED LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE

KS: KEY SWITCH C/W "DOOR OPERATOR" LAMACOID LABEL. LABEL ONLY TO BE SUPPLIED BY PDSB.

R1: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM

R2: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM

IPB: INTERIOR PUSH BUTTON

EPB: EXTERIOR PUSH BUTTON

VPB: VESTIBULE PUSH BUTTON

GENERAL NOTES:

R1 - DRY CONTACTS PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO ACTIVATE THE STRIKE ONLY AND THE OPTIONAL USE OF EXTERIOR PUSH BUTTON. NOTE 15 SECOND DELAY REQUIRED.

R2 - DRY CONTACT PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO FULLY ACTIVATE THE DOOR OPERATOR WHEN REQUIRED
R2 CONTACT IS ONLY PRESENT WHEN THE CONTROLLED ENTRY SYSTEM IS AN AIPHONE.

N1 - THIS IS THE SAME POWER SUPPLY AND REGULATOR.

THE "FRONT DOOR CONTROLLED ENTRY SYSTEM" SHALL OPERATE INDEPENDENTLY FROM THE EXISTING DOOR OPERATOR SYSTEM AND INTERLOCK THROUGH THE USE OF DRY CONTACTS AS PER SPEC. IF THE EXTERIOR DOOR OPERATOR DOES NOT HAVE SEPARATE INTERIOR AND EXTERIOR PUSH BUTTON TERMINALS, INSTALLATION OF CAMDEN PART# CX-22 MODULE OR EQUIVALENT MAY BE REQUIRED IN THE DOOR OPERATOR TO INTERLOCK THE SYSTEM ACCORDING TO SPEC.

CONTROLLED ENTRY SYSTEM IS THE AiPHONE, AND/OR KEYPAD, AND/OR CARD READER INSTALLED BY OTHERS.

ALL TERMINATIONS MUST BE MADE IN THE EXTERIOR DOOR OPERATOR.
R1 AND R2 TO BE LABELED AND LOCATED IN THE EXTERIOR DOOR OPERATOR.

peel District School Board

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

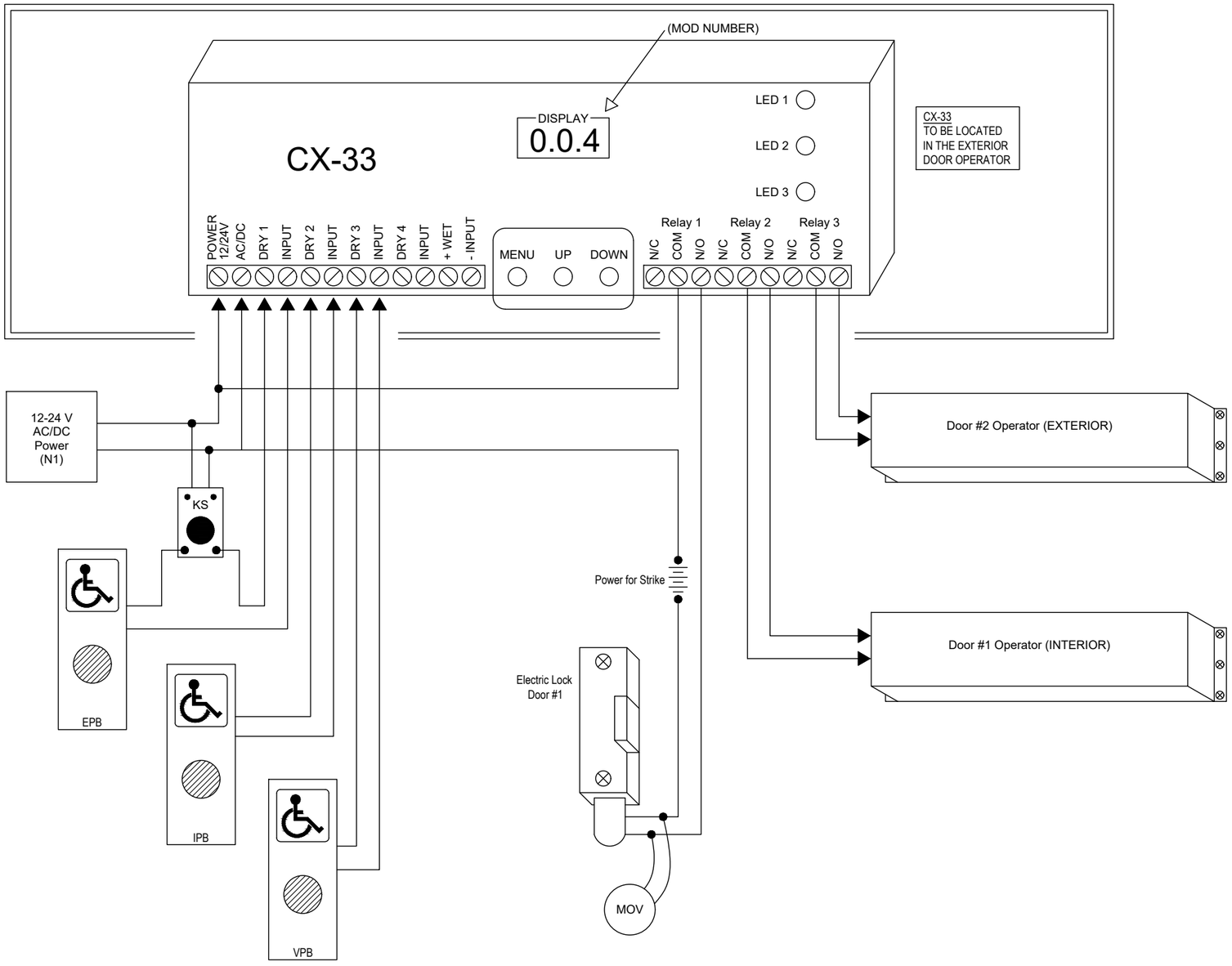
APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM: WIRING DIAGRAM

DRAWING TITLE: ENTRANCE DOOR OPERATORS LESS THAN 1500mm (59"), PLUS WIDTH OF THE DOOR, WITH FRONT DOOR CONTROLLED ENTRY SYSTEM TRAP DOOR APPLICATION (AiPHONE, KEYPAD OR CARD READER)

SHEET NUMBER: 3 OF 20



LEGEND:

- GREEN LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE
- RED LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE

KS: KEY SWITCH C/W "DOOR OPERATOR" LAMACOID LABEL. LABEL ONLY TO BE SUPPLIED BY PDSB.

R1: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM

R2: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM

IPB: INTERIOR PUSH BUTTON

EPB: EXTERIOR PUSH BUTTON

VPB: VESTIBULE PUSH BUTTON

GENERAL NOTES:

R1 - DRY CONTACTS PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO ACTIVATE THE STRIKE ONLY AND THE OPTIONAL USE OF EXTERIOR PUSH BUTTON. NOTE 15 SECOND DELAY REQUIRED.

R2 - DRY CONTACT PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO FULLY ACTIVATE THE DOOR OPERATOR WHEN REQUIRED

THE "FRONT DOOR CONTROLLED ENTRY SYSTEM" SHALL OPERATE INDEPENDENTLY FROM THE EXISTING DOOR OPERATOR SYSTEM AND INTERLOCK THROUGH THE USE OF DRY CONTACTS AS PER SPEC. IF THE EXTERIOR DOOR OPERATOR DOES NOT HAVE SEPARATE INTERIOR AND EXTERIOR PUSH BUTTON TERMINALS, INSTALLATION OF CAMDEN PART# CX-22 MODULE OR EQUIVALENT MAY BE REQUIRED IN THE DOOR OPERATOR TO INTERLOCK THE SYSTEM ACCORDING TO SPEC.

ALL TERMINATIONS MUST BE MADE IN THE EXTERIOR DOOR OPERATOR.
R1 AND R2 TO BE LABELED AND LOCATED IN THE EXTERIOR DOOR OPERATOR.

peel District School Board

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:
WIRING DIAGRAM

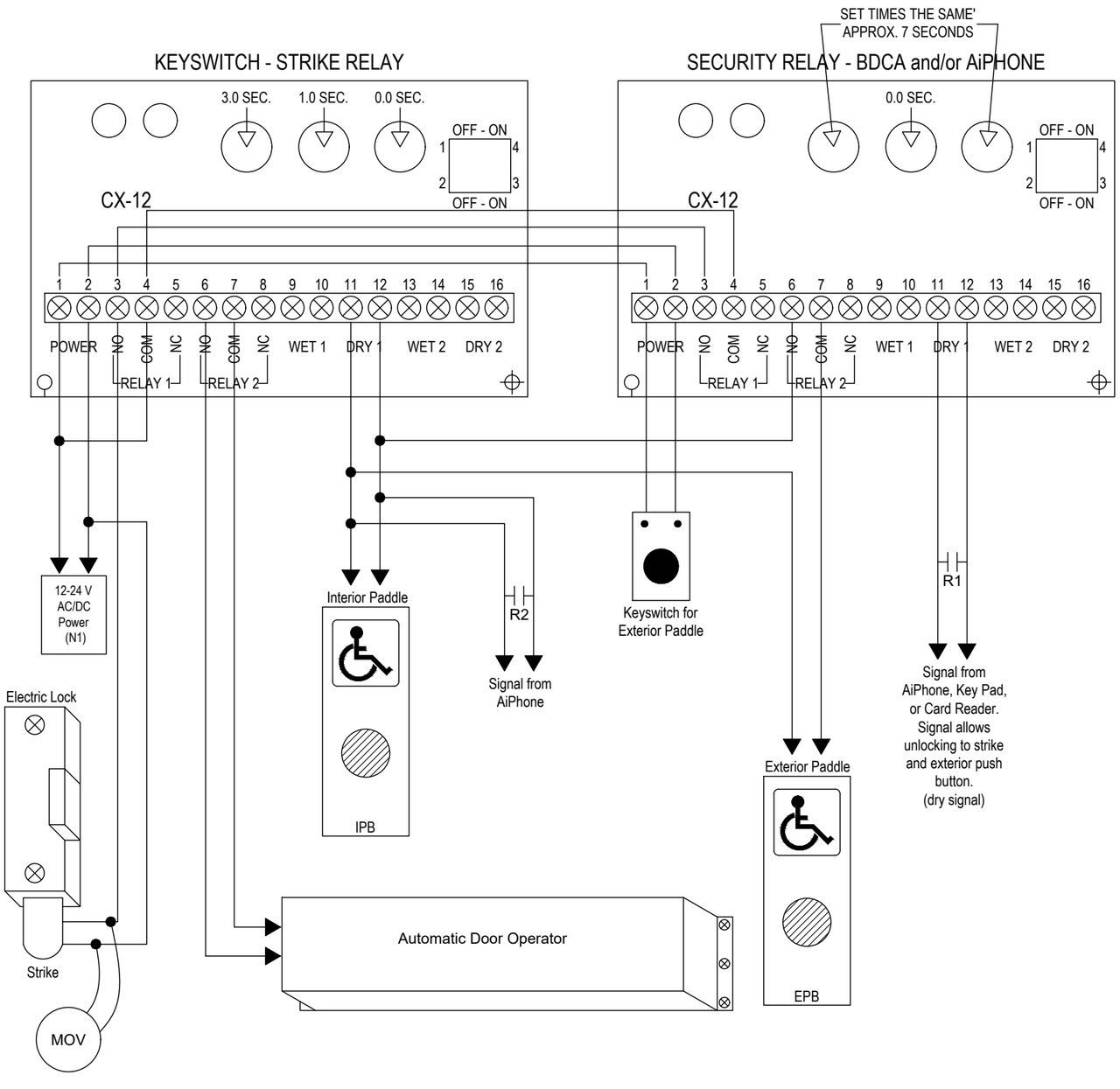
DRAWING TITLE:
ENTRANCE DOOR OPERATORS LESS THAN 1500mm (59"), PLUS WIDTH OF THE DOOR, TRAP DOOR APPLICATION (NO AiPHONE, NO KEYPAD, NO CARD READER)

SHEET NUMBER:
4 OF 20

EXTERIOR DOOR EXISTING INSTALLATIONS WITH A CONTROLLED ENTRY SYSTEM

R1 — R2

(AiPHONE, OR KEYPAD, OR CARD READER)



LEGEND:

- ● GREEN LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE
- ● RED LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE

R1: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM

R2: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM

(N1): A DEDICATED POWER SUPPLY FOR THE ELECTRIC STRIKE SHALL BE INSTALLED IN THE ADO HEADER CONSISTING OF ONE (1) CAT. NO. 24V/20VA XFMR AND REGULATED POWER SUPPLY, CAT. NO. CX-PS13-V3

GENERAL NOTES:

R1 - DRY CONTACTS PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO ACTIVATE THE STRIKE ONLY AND THE OPTIONAL USE OF EXTERIOR PUSH BUTTON.
NOTE 15 SECOND DELAY REQUIRED.

R2 - DRY CONTACT PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO FULLY ACTIVATE THE DOOR OPERATOR WHEN REQUIRED.
R2 CONTACT IS ONLY PRESENT WHEN THE CONTROLLED ENTRY SYSTEM IS AN AIPHONE.

THE "FRONT DOOR CONTROLLED ENTRY SYSTEM" SHALL OPERATE INDEPENDENTLY FROM THE EXISTING DOOR OPERATOR SYSTEM AND INTERLOCK THROUGH THE USE OF DRY CONTACTS AS PER SPEC. IF THE EXTERIOR DOOR OPERATOR DOES NOT HAVE SEPARATE INTERIOR AND EXTERIOR PUSH BUTTON TERMINALS, INSTALLATION OF CAMDEN PART # CX-22 MODULE OR EQUIVALENT MAY BE REQUIRED IN THE DOOR OPERATOR TO INTERLOCK THE SYSTEM ACCORDING TO SPEC.

ALL TERMINATIONS MUST BE MADE IN THE EXTERIOR DOOR OPERATOR.

R1 AND R2 TO BE LABELED AND LOCATED IN THE EXTERIOR DOOR OPERATOR.

peel District School Board

SAMPLE INSTALLATION PHOTOS:

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:
WIRING DIAGRAM

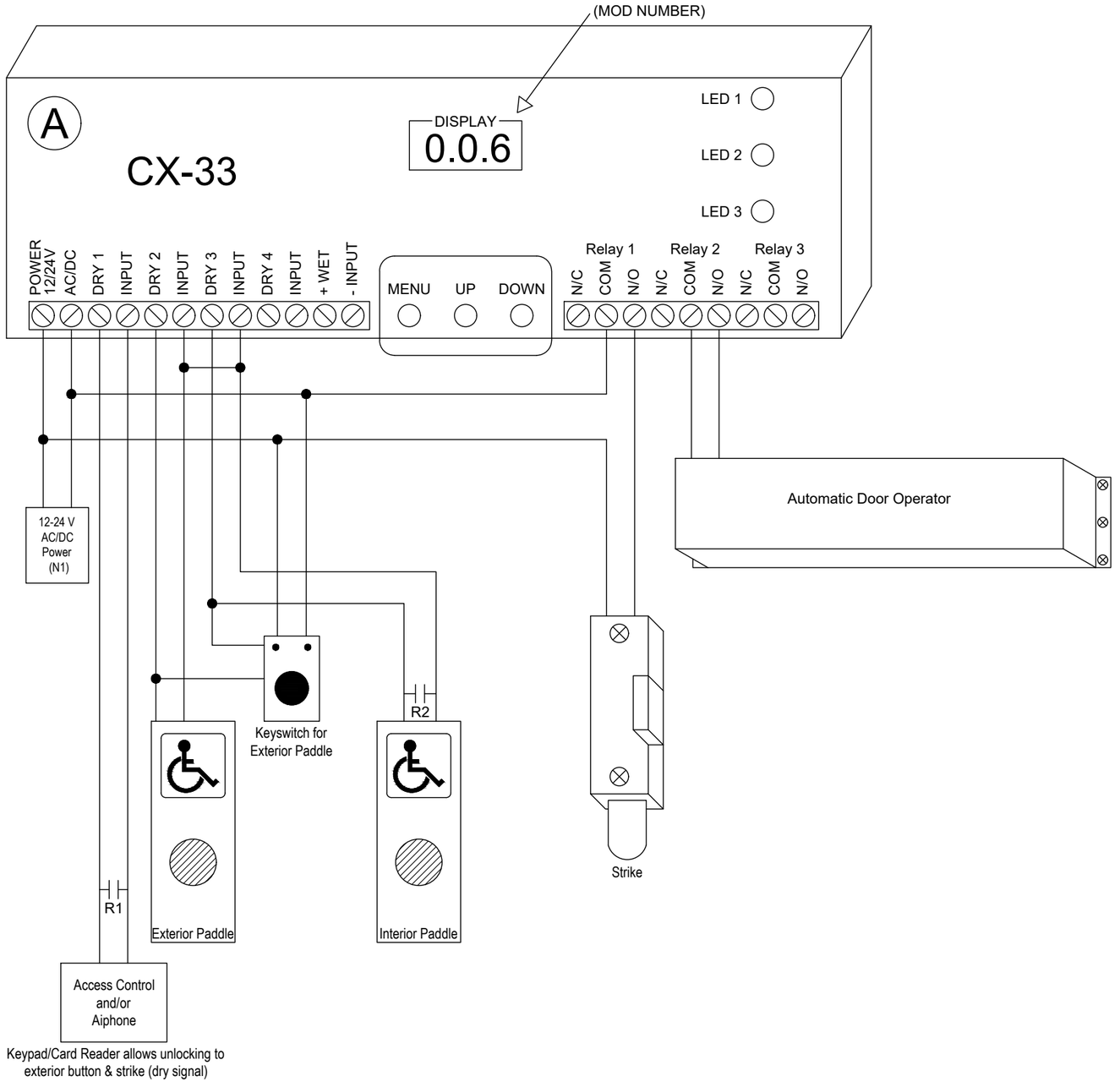
DRAWING TITLE:
EXTERIOR ENTRANCE DOOR OPERATOR GREATER THAN 1500mm, PLUS WIDTH OF THE DOOR, WITH FRONT DOOR CONTROLLED ENTRY SYSTEM PRIOR TO OCTOBER 2018
SINGLE OR TWO DOOR APPLICATION

SHEET NUMBER:
5 OF 20

EXTERIOR DOOR NEW INSTALLATIONS WITH A CONTROLLED ENTRY SYSTEM

R1 — R2

(AiPHONE, OR KEYPAD, OR CARD READER)



LEGEND:

- ● GREEN LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE
- ● RED LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE
- R1: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM - RELEASES THE STRIKE
- R2: CONTROL CONTACT LOCATED IN THE CONTROLLED ENTRY SYSTEM - OPENS THE DOOR
- (N1): A DEDICATED POWER SUPPLY FOR THE ELECTRIC STRIKE SHALL BE INSTALLED IN THE ADO HEADER CONSISTING OF ONE (1) CAT. NO. 24V/20VA XFMR AND REGULATED POWER SUPPLY, CAT. NO. CX-PS13-V3

GENERAL NOTES:

R1 - DRY CONTACTS PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO ACTIVATE THE STRIKE ONLY AND THE OPTIONAL USE OF EXTERIOR PUSH BUTTON.
NOTE 15 SECOND DELAY REQUIRED.

R2 - DRY CONTACT PROVIDED BY THE CONTROLLED ENTRY SYSTEM TO BE PROGRAMMED TO FULLY ACTIVATE THE DOOR OPERATOR WHEN REQUIRED.
R2 CONTACT IS ONLY PRESENT WHEN THE CONTROLLED ENTRY SYSTEM IS AN AIPHONE.

THE "FRONT DOOR CONTROLLED ENTRY SYSTEM" SHALL OPERATE INDEPENDENTLY FROM THE EXISTING DOOR OPERATOR SYSTEM AND INTERLOCK THROUGH THE USE OF DRY CONTACTS AS PER SPEC. IF THE EXTERIOR DOOR OPERATOR DOES NOT HAVE SEPARATE INTERIOR AND EXTERIOR PUSH BUTTON TERMINALS, INSTALLATION OF CAMDEN PART # CX-22 MODULE OR EQUIVALENT MAY BE REQUIRED IN THE DOOR OPERATOR TO INTERLOCK THE SYSTEM ACCORDING TO SPEC.

ALL TERMINATIONS MUST BE MADE IN THE EXTERIOR DOOR OPERATOR.

R1 AND R2 TO BE LABELED AND LOCATED IN THE EXTERIOR DOOR OPERATOR.

peel District School Board

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

APPROVED BY:

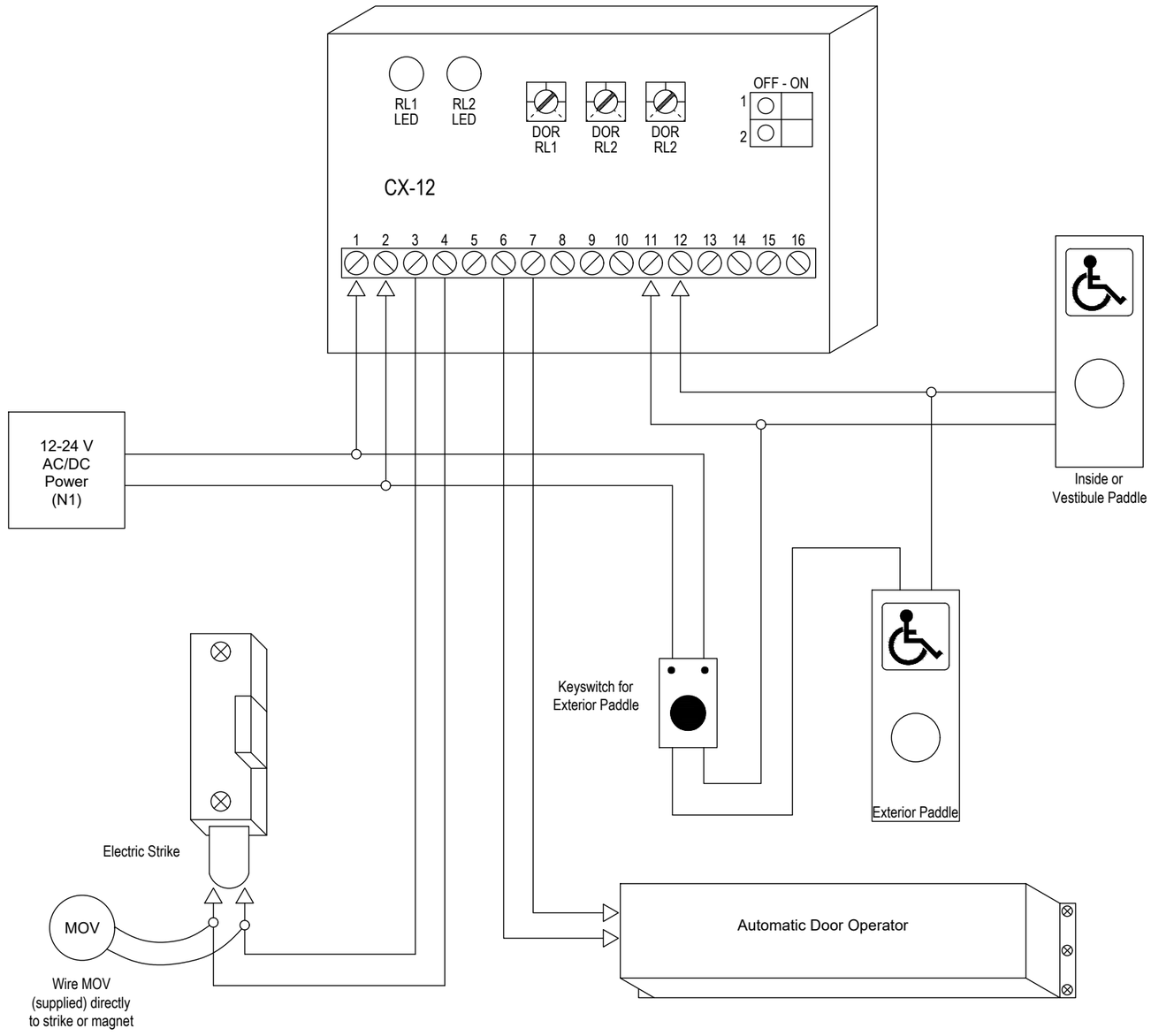
NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM: WIRING DIAGRAM

DRAWING TITLE: EXTERIOR ENTRANCE DOOR OPERATORS GREATER THAN 1500mm, PLUS WIDTH OF THE DOOR, WITH FRONT DOOR CONTROLLED ENTRY SYSTEM AFTER OCTOBER 2018
SINGLE OR TWO DOOR APPLICATION

SHEET NUMBER: 6 OF 20

EXTERIOR OR INTERIOR (VESTIBULE DOOR), NEW INSTALLATION, WITHOUT CONTROLLED ENTRY SYSTEM AND/OR NO BUILT-IN RELAY IN ADO CONTROL BOARD



LEGEND:

(N1): A DEDICATED POWER SUPPLY FOR THE ELECTRIC STRIKE SHALL BE INSTALLED IN THE ADO HEADER CONSISTING OF ONE (1) CAT. NO. 24V/20VA XFMR AND REGULATED POWER SUPPLY, CAT. NO. CX-PS13-V3

GENERAL NOTES:

ALL TERMINATIONS MUST BE MADE IN THE EXTERIOR DOOR OPERATOR.

- GREEN LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE
- RED LED LIGHT LOCATED ON THE KEY SWITCH FACE PLATE

peel District School Board

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

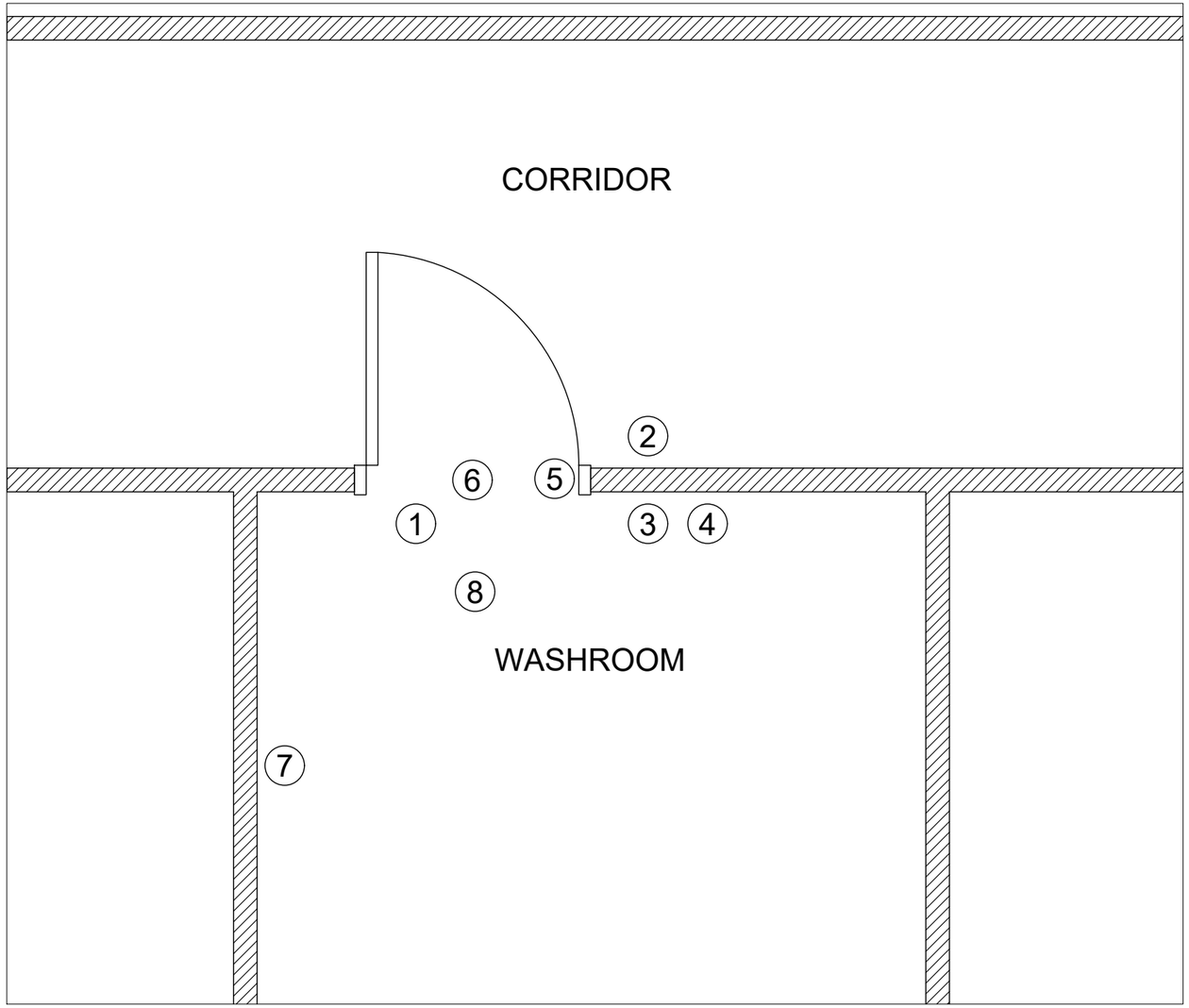
SAMPLE DIAGRAM: WIRING DIAGRAM

DRAWING TITLE: EXTERIOR OR INTERIOR NEW VESTIBULE DOOR OPERATOR INSTALLATION WITHOUT CONTROLLED ENTRY AND/OR BUILT-IN RELAY CONTROL BOARD

SHEET NUMBER: 7 OF 20

LEGEND:

① DOOR OPERATOR
② AURA ILLUMINATED EXTERIOR PUSH BUTTON
③ INTERIOR PUSH BUTTON
④ WAVE TO LOCK SWITCH WITH LIGHT RING AND SIGN
⑤ ELECTRIC STRIKE
⑥ SINGLE GANG DOME LIGHT WITH SOUNDER (EMERGENCY CALL SYSTEM)
⑦ RED PUSH BUTTON AND AUDIBLE ALARM (EMERGENCY CALL SYSTEM)
⑧ POWER SUPPLY



GENERAL NOTES AND SPECIFICATIONS:

1. AUTOMATIC DOOR OPERATOR: FLUSH MOUNT AURA ILLUMINATED PUSH PLATE SYSTEM, KIT CX-WC13XFM (pg 30) CONSISTING OF:
   - 1-a. CM-45/4 FLUSH WHEELCHAIR AND "PUSH TO OPEN" 4½" SQUARE PUSH PLATE SWITCH. INCLUDING A CM-55CBL FLUSH SQUARE MOUNTING BOX FOR CM-45/4, (LEGEND # 2)
   - 1-b. CM-45/4 55SE1 FLUSH 4½" ILLUMINATED WHEELCHAIR AND "PUSH TO OPEN" PUSH PLATE WITH SIGN, (LEGEND # 3)
   - 1-c. CM-331/43S-SGLR SUREWAVE SINGLE GANG "WAVE TO LOCK" SWITCH WITH LIGHT RING AND SIGN, (LEGEND # 4)
   - 1-d. CX-MDA MAGNETIC DOOR CONTACT (LEGEND # 5)
   - 1-e. CX-33 RELAY NOT SHOWN IN DRAWING

2. EXTERIOR AURA PUSH PLATE (2) IS FLUSH MOUNTED USING A STAINLESS STEEL MOUNTING PLATE. (WILENE CAT. NO. AFP-1), SEE SAMPLE INSTALLATION PHOTO.

3. INTERIOR DEVICES (3 AND 4) ARE EACH MOUNTED ON A SINGLE GANG MASONRY BOX. SEE SAMPLE INSTALLATION PHOTO.

4. EMERGENCY CALL SYSTEM: CAMDEN EMERGENCY CALL SYSTEM KIT, DOUBLE GANG, CAT. NO. CX-WEC10K2, CONSISTING OF:
   - 4-a. CM-AF14150 LED DOME LIGHT WITH ADJUSTABLE SOUNDER, (LEGEND # 6)
   - 4-b. CM-AF540SO "PRESS FOR ASSISTANCE", MAINTAINED MUSHROOM PUSH BUTTON, AND "ASSISTANCE REQUESTED" LED ANNUNCIATOR WITH ADJUSTABLE SOUNDER AND CM-SE21 WHITE PANEL SIGN (6" X 10⅝"), (LEGEND # 7)
   - 4-c. THE POWER SUPPLY (LEGEND # 8) SHALL CONSIST OF CX-TRX-4024 24V/20A XFMR AND CX-PS13-V3 REGULATED POWER SUPPLY MOUNTED IN ADO HEADER OR A CX-PS10UL SURFACE MOUNTED POWER SUPPLY ABOVE AN ADJACENT SUSPENDED GRID CEILING.
     SEE GENERAL NOTE 3 ON DRAWINGS 10 & 11 OF 17

5. NOT SHOWN IS THE REMOTE EMERGENCY CALL SYSTEM ANNUNCIATOR AND POWER SUPPLY LOCATED IN THE OFFICE. BOARD DESIGNEE TO SPECIFY OFFICE ANNUNCIATOR, SEE NOTE (J.) ON DRAWINGS 10 & 11 OF 17 AND (N1) ON DRAWING 12 OF 17.

peel District School Board

SAMPLE INSTALLATION PHOTOS:

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:

PDSB ADO AND EMERGENCY CALL SYSTEM

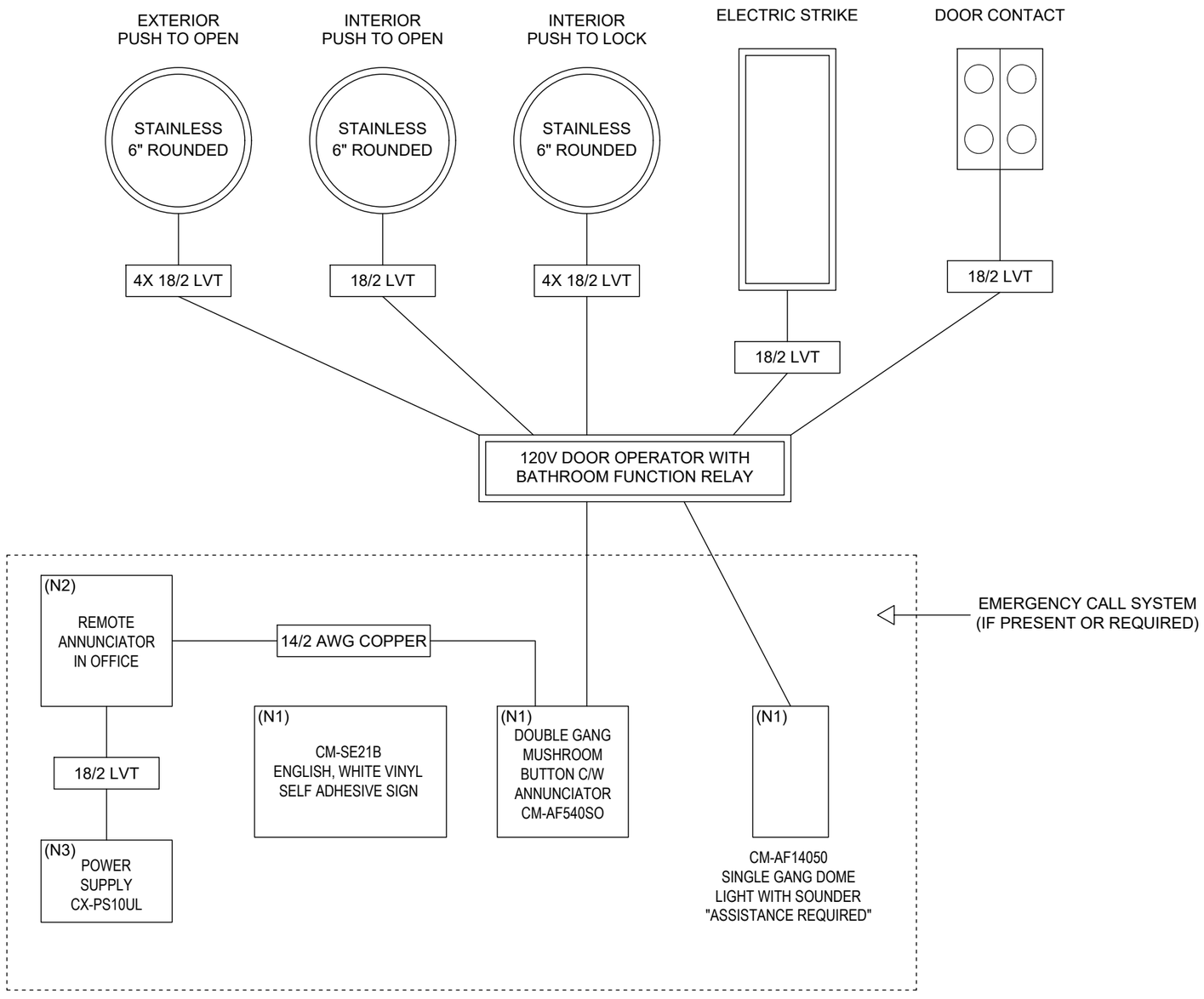
DRAWING TITLE:

LAYOUT FOR AUTOMATIC WASHROOM DOOR OPERATOR

SHEET NUMBER:

8 OF 20

WASHROOM ADO AND EMERGENCY CALL SYSTEM



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GENERAL NOTES:

(N1). EMERGENCY CALL KIT CX-WEC10K2 INCLUDES THESE THREE DEVICES

(N2). THE OFFICE ANNUNCIATOR, CM-AF14050, OR CAT. NO. CC-CUST-FP-ENTD00-04 AND CM-53. THE APPROVED ANNUNCIATOR MUST BE PURCHASED IN ADDITION TO THE EMERGENCY CALL KIT. SEE NOTE (J.) ON DRAWINGS 10 & 11 OF 15. THE PDSB PROJECT MANAGER WILL ADVISE OF THE OFFICE ANNUNCIATOR TO BE INSTALLED AT EACH SITE.

(N3). OFFICE ANNUNCIATOR POWER SUPPLY CAT. NO. CX-PS10UL SEE NOTE (K.) ON DRAWING 10 & 11 OF 15.

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

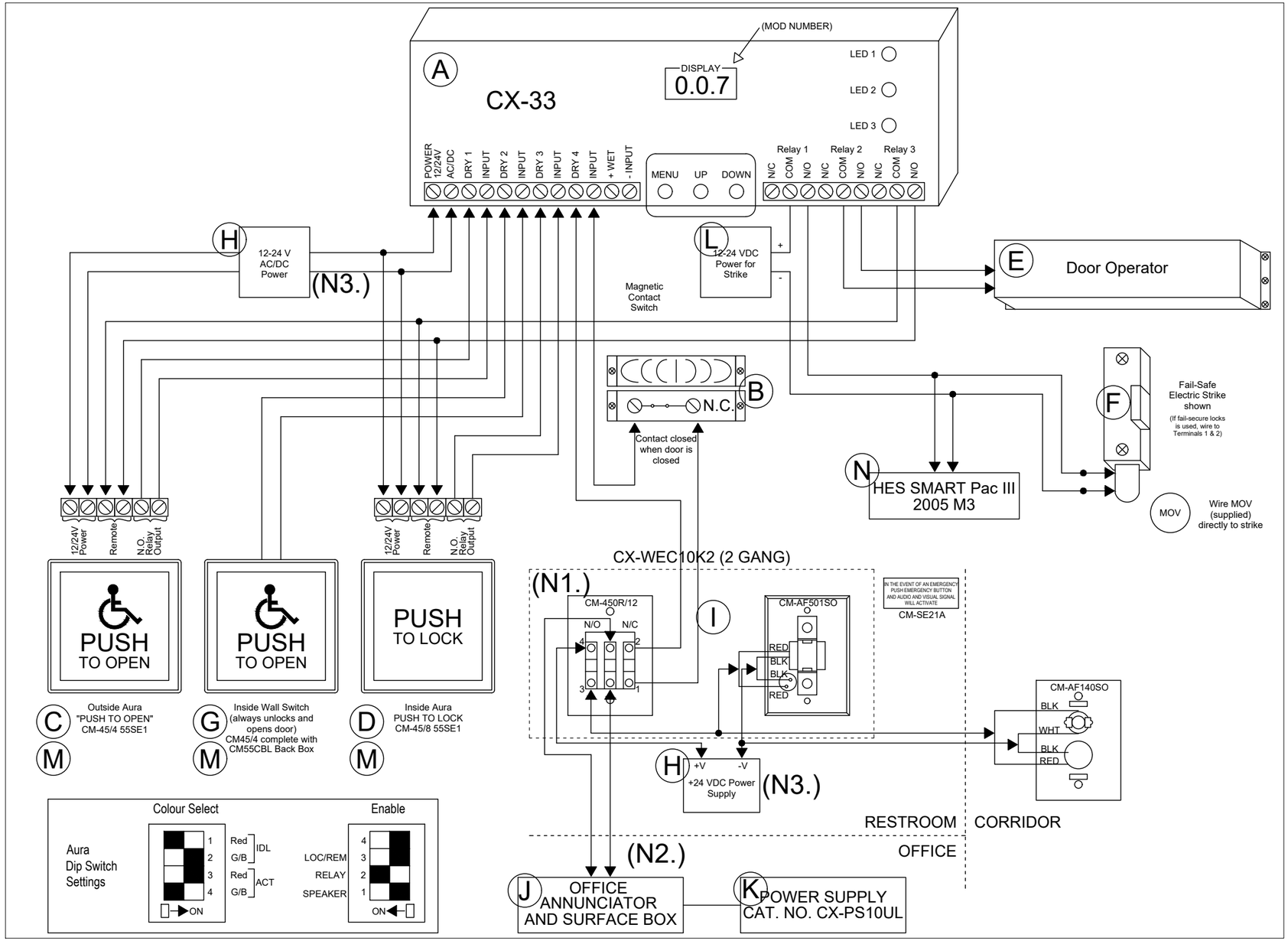
APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:
PDSB ADO AND EMERGENCY CALL SYSTEM
WIRING DIAGRAM

DRAWING TITLE:
LAYOUT FOR AUTOMATIC WASHROOM DOOR OPERATOR AND EMERGENCY CALL SYSTEM

SHEET NUMBER:
9 OF 20



GENERAL NOTES:

(1.) IF OFFICE ANNUNCIATOR IS GREATER THAN FIFTY FEET, (50'), AND/OR A REMOTE STATUS LED ANNUNCIATOR SERVING MULTIPLE EMERGENCY CALL SYSTEMS IS USED, A CM-4000/60N MUST BE INSTALLED ON EACH CM-450 R/12

(2.) IF OFFICE ANNUNCIATOR IS GREATER THAN FIFTY FEET, (50'), CONDUCTORS MUST BE MINIMUM #14 AWG COPPER

(3.) THIS ONE AND THE SAME 24VDC POWER SUPPLY LOCATED IN THE ADO HEADER AS FOLLOWS: 24V/20VA XFMR, CAT. NO. CX-TRX-2024 REGULATED POWER SUPPLY, CAT. NO. CX-PS13-V3
IF THE ABOVE POWER SUPPLY WILL NOT FIT IN THE AUTOMATIC DOOR OPERATOR HEADER A SELF CONTAINED POWER SUPPLY, CAT. NO. CX-PS10UL MUST BE INSTALLED ABOVE THE CLOSEST ADJACENT SUSPENDED CEILING. DO NOT INSTALL THIS POWER SUPPLY ABOVE ANY DRYWALL CEILING.
(H) IS ONE DEVICE, AND POWERS THE AURA ILLUMINATED PUSH PLATE SYSTEM AND THE EMERGENCY CALL SYSTEM.

(4.) AURA SYSTEM, AUTOMATIC DOOR OPERATOR, AND EMERGENCY CALL SYSTEM IN EACH WASHROOM TO SHARE THE SAME DEDICATED 120 VOLT CIRCUIT.

(5.) THE PARTS SPECIFIED IN THIS DRAWING WILL FIT IN A HORTON ADO HEADER.
A NABCO ADO WILL REQUIRE A REMOTE SELF CONTAINED POWER SUPPLY, CAT. NO. CX-PS10UL AS THE SECOND POWER SUPPLY DOES NOT FIT IN THE HEADER.
OTHER APPROVED ADO MANUFACTURERS TO BE REVIEWED AND CONFIRMED.

(6.) THE AURA ILLUMINATED PUSH PLATE AND ASSOCIATED RACEWAY MUST BE FLUSH MOUNTED AT 980mm or 38½" TO CENTER A.F.F.
THE PDSB HAS A TEMPLATE TO LOCATE THIS HEIGHT OF THESE PUSH PLATES.

(7.) ALL PUSH PLATES ARE TO BE INSTALLED ON CUSTOM STAINLESS STEEL MOUNTING PLATES FROM WILENE, CAT. NO. AFP-1 AND AFP-2

LEGEND:

THE FOLLOWING ARE PART OF THE AURA ILLUMINATED PUSH PLATE PACKAGE: (SEE NOTES ON DWG. 8 of 15)

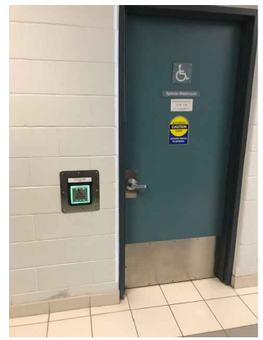
A. CX-33 RELAY
B. CX-MDA MAGNETIC DOOR CONTACTS (IF ADO HAS NO BUILT-IN CONTACT CLOSE MODULE)
C. CM-45/4 55SE1 FLUSH 4½" ILLUMINATED WHEELCHAIR AND "PUSH TO OPEN" PUSH PLATE WITH SIGNAGE
D. CM-45/855SE1 FLUSH 4½" "PUSH TO LOCK" ILLUMINATED PUSH PLATE SWITCH WITH SIGNAGE

THE FOLLOWING ITEMS ARE REQUIRED, BUT **NOT** INCLUDED:

E. DOOR OPERATOR AS PER TENDER L18-4261
F. ELECTRIC STRIKE; HES 1006 FAIL SAFE
G. INSIDE ACTIVATE WALL SWITCH - CM45/4FLUSH WHEELCHAIR AND "PUSH TO OPEN" 4½" SQUARE PUSH PLATE SWITCH. INCLUDE FOR CM-55CBL FLUSH SQUARE MOUNTING BOX FOR CM45/4
H. 12/24V POWER SUPPLY, SEE GENERAL NOTES
I. EMERGENCY CALL KIT WITH DOUBLE GANG MUSHROOM BUTTON C/W CM-4000/60N CONTACT BLOCK, AND ANNUNCIATOR CAT. NO. CX-WEC10K2
J. OFFICE ANNUNCIATOR SHALL BE INDIVIDUAL UNITS CAT. NO. CM-AF501SO OR A REMOTE STATUS LED ANNUNCIATOR (1-6 RESTROOMS), CAT. NO. CC-CUST-FP-ENTDOO-04 AND SURFACE BOX CAT. NO. CM-53
K. IN EITHER CASE A 1 AMP POWER SUPPLY WITH CABINET MUST BE INSTALLED ABOVE A SUSPENDED CEILING IN THE OFFICE CAT. NO. CX-PS10UL.
SEE REMOTE STATUS LED ANNUNCIATOR DIAGRAM DWG. 12 OF 17.
L. A DEDICATED POWER SUPPLY FOR THE ELECTRIC STRIKE SHALL BE INSTALLED IN THE ADO HEADER CONSISTING OF ONE (1) TRANSFORMER, CAT. NO. CX-TRX-4024, AND A REGULATED POWER SUPPLY CAT. NO. CX-PS13-V3, SEE GENERAL NOTES
M. STAINLESS STEEL MOUNTING PLATES: WILENE CAT. NO. AFP-1 AND AFP-2 - SEE PHOTOS
N. HES SMART Pac III 2005 M3

peel District School Board

SAMPLE INSTALLATION PHOTOS:



CORRIDOR SIDE "PUSH TO OPEN"

WASHROOM SIDE W/OUTWARD SWINGING DOOR "PUSH TO OPEN" AND "PUSH TO LOCK"

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

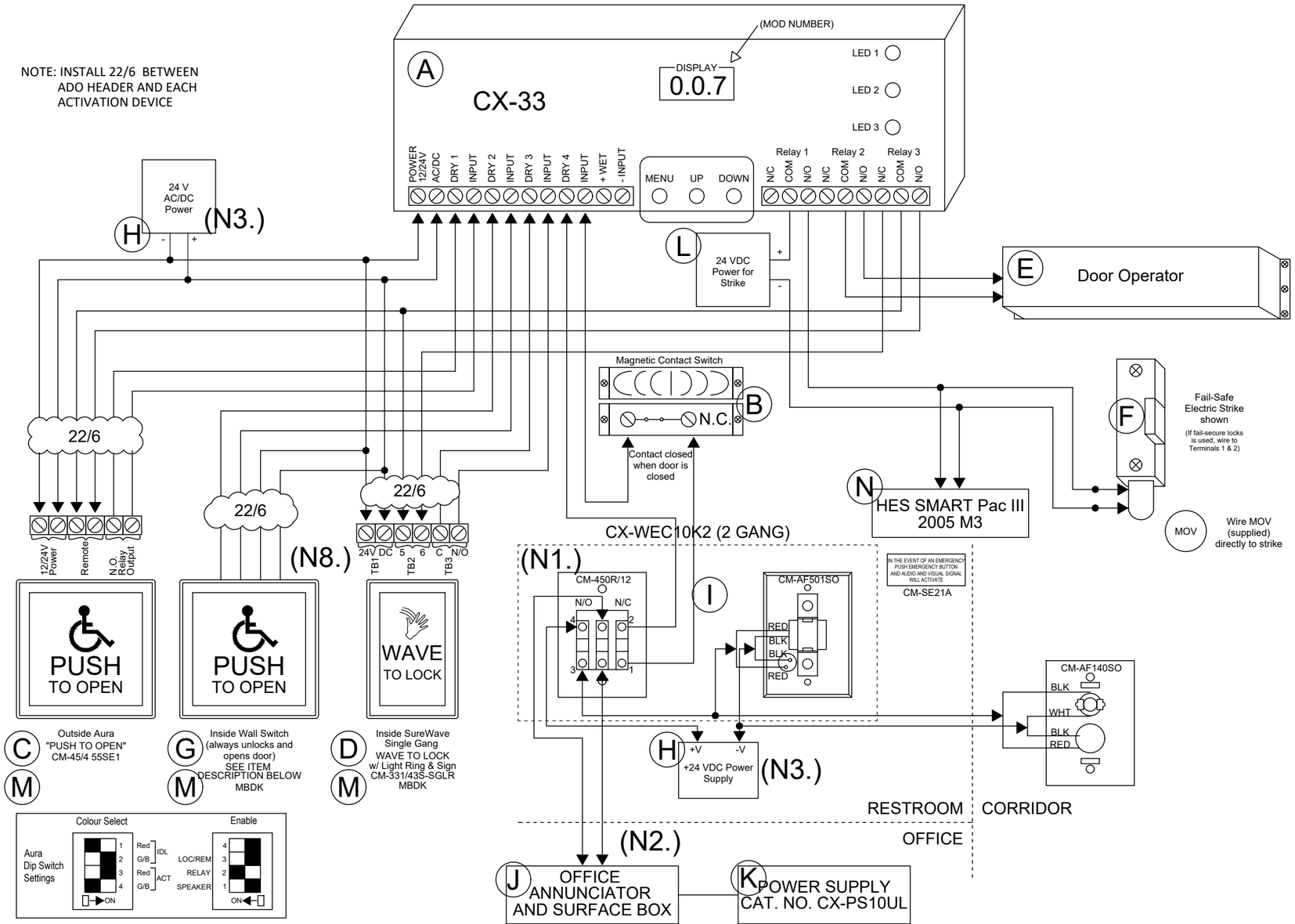
NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:
PDSB ADO AND EMERGENCY CALL SYSTEM
WIRING DIAGRAM

DRAWING TITLE:
AURA SYSTEM CX33, DOOR OPERATOR, EMERGENCY CALL SYSTEM CX-WEC10K2, AND REMOTE STATUS LED ANNUNCIATOR OR CM-AF501SO

SHEET NUMBER:
10 OF 20

NOTE: INSTALL 22/6 BETWEEN ADO HEADER AND EACH ACTIVATION DEVICE



LEGEND:

THE FOLLOWING ARE PART OF THE AURA ILLUMINATED PUSH PLATE PACKAGE: (SEE NOTES ON DWG. 8 of 15)

A. CX-33 RELAY
B. CX-MDA MAGNETIC DOOR CONTACTS (IF ADO HAS NO BUILT-IN CONTACT CLOSE MODULE)
C. CM-45/4 55SE1 FLUSH 4½" ILLUMINATED WHEELCHAIR AND "PUSH TO OPEN" PUSH PLATE WITH SIGNAGE AND FLUSHMOUNT BOX. REQUIRES WILENE SS PLATE, CAT. NO. WS-PB-220355 TO FLUSH MOUNT IN MASONRY WALL. DO NOT GLUE OR SILICONE.
D. CM-331/43S-SGLR SUREWAVE SINGLE GANG "WAVE TO LOCK" SWITCH WITH LIGHT RING AND SIGN

THE FOLLOWING ITEMS ARE REQUIRED, BUT **NOT** INCLUDED:

E. DOOR OPERATOR AS PER TENDER L18-4261
F. ELECTRIC STRIKE; HES 1006 FAIL SAFE
G. INSIDE ACTIVATE WALL SWITCH - CM-45/4FLUSH WHEELCHAIR AND "PUSH TO OPEN" 4 ½" SQUARE PUSH PLATE SWITCH.
H. 12/24V POWER SUPPLY, SEE GENERAL NOTES
I. EMERGENCY CALL KIT WITH DOUBLE GANG MUSHROOM BUTTON C/W CM-4000/60N CONTACT BLOCK, AND ANNUNCIATOR CAT. NO. CX-WEC10K2
J. OFFICE ANNUNCIATOR SHALL BE INDIVIDUAL UNITS CAT. NO. CM-AF501SO OR A REMOTE STATUS LED ANNUNCIATOR (1-6 RESTROOMS), CAT. NO. CC-CUST-FP-ENTDOO-04 AND SURFACE BOX CAT. NO. CM-53
K. IN EITHER CASE A 1 AMP POWER SUPPLY WITH CABINET MUST BE INSTALLED ABOVE A SUSPENDED CEILING IN THE OFFICE CAT. NO. CX-PS10UL. SEE REMOTE STATUS LED ANNUNCIATOR DIAGRAM DWG. 12 OF 17.
L. A DEDICATED POWER SUPPLY FOR THE ELECTRIC STRIKE SHALL BE INSTALLED IN THE ADO HEADER CONSISTING OF ONE (1) TRANSFORMER, CAT. NO. CX-TRX-4024, AND A REGULATED POWER SUPPLY CAT. NO. CX-PS13-V3, SEE GENERAL NOTES
M. STAINLESS STEEL MOUNTING PLATES: WILENE CAT. NO. AFP-1 AND AFP-2 - SEE PHOTOS
N. HES SMART Pac III 2005 M3

GENERAL NOTES:

(1.) IF OFFICE ANNUNCIATOR IS GREATER THAN FIFTY FEET, (50'), AND/OR A REMOTE STATUS LED ANNUNCIATOR SERVING MULTIPLE EMERGENCY CALL SYSTEMS IS USED, A CM-4000/60N MUST BE INSTALLED ON EACH CM-450 R/12
(2.) IF OFFICE ANNUNCIATOR IS GREATER THAN FIFTY FEET, (50'), CONDUCTORS MUST BE MINIMUM #14 AWG COPPER
(3.) THIS ONE AND THE SAME 24VDC POWER SUPPLY LOCATED IN THE ADO HEADER AS FOLLOWS:
24V/20VA XFMR, CAT. NO. CX-TRX-2024
REGULATED POWER SUPPLY, CAT. NO. CX-PS13-V3
IF THE ABOVE POWER SUPPLY WILL NOT FIT IN THE AUTOMATIC DOOR OPERATOR HEADER A SELF CONTAINED POWER SUPPLY, CAT. NO. CX-PS10UL MUST BE INSTALLED ABOVE THE CLOSEST ADJACENT SUSPENDED CEILING. DO NOT INSTALL THIS POWER SUPPLY ABOVE ANY DRYWALL CEILING. (H) IS ONE DEVICE, AND POWERS THE AURA ILLUMINATED PUSH PLATE SYSTEM AND THE EMERGENCY CALL SYSTEM.
(4.) AURA SYSTEM, AUTOMATIC DOOR OPERATOR, AND EMERGENCY CALL SYSTEM IN EACH WASHROOM TO SHARE THE SAME DEDICATED 120 VOLT CIRCUIT.
(5.) THE PARTS SPECIFIED IN THIS DRAWING WILL FIT IN A HORTON ADO HEADER.
A NABCO ADO WILL REQUIRE A REMOTE SELF CONTAINED POWER SUPPLY, CAT. NO. CX-PS10UL AS THE SECOND POWER SUPPLY DOES NOT FIT IN THE HEADER.
OTHER APPROVED ADO MANUFACTURERS TO BE REVIEWED AND CONFIRMED.
(6.) ALL HANDS-FREE DEVICES/PUSH PLATE AND ASSOCIATED RACEWAY MUST BE FLUSH MOUNTED AT 980mm or 38½" TO CENTER A.F.F.
THE PDSB HAS A TEMPLATE TO LOCATE THIS HEIGHT OF THESE PUSH PLATES.
(7.) THE AURA PUSH TO OPEN PLATE IS TO BE MOUNTED ON A CUSTOM STAINLESS STEEL MOUNTING PLATE FROM WILENE AND ASSOCIATES, CAT. NO. WS-PB-220355
(8.) THE "WAVE TO LOCK" STAINLESS STEEL SINGLE GANG PLATE AND THE INTERIOR "PUSH TO OPEN" PLATE ARE MOUNTED ON A FLUSH MOUNTED SINGLE GANG MASONRY BOX, CAT. NO. MBD1K. THESE TWO (2) DEVICES MUST BE MOUNTED ON 16" (406mm) CENTRES WITH ¾" EMT CONDUIT FROM THE MASONRY BOX TO THE WALL OPENING FOR THE INTERIOR "PUSH TO OPEN" PLATE, AND FROM THE MASONRY BOX TO ABOVE AN ACCESSIBLE LAY-IN CEILING PANEL NEAR THE ADO HEADER. DO NOT TERMINATE THESE BOXES ABOVE A FIXED CEILING SUCH AS DRYWALL. WHEN SWINGING INWARDS, "PUSH TO OPEN" MUST BE MOUNTED AT LEAST 24" (610mm) CLEAR FROM LEADING EDGE OF DOOR.
SEE DRAWING 3-13 OF 17.

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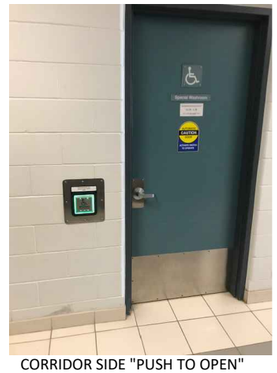
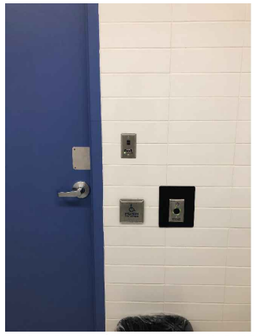
SAMPLE INSTALLATION PHOTOS:



CORRIDOR SIDE "PUSH TO OPEN"



WASHROOM SIDE W/OUTWARD SWINGING DOOR "PUSH TO OPEN" AND "WAVE TO LOCK"

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

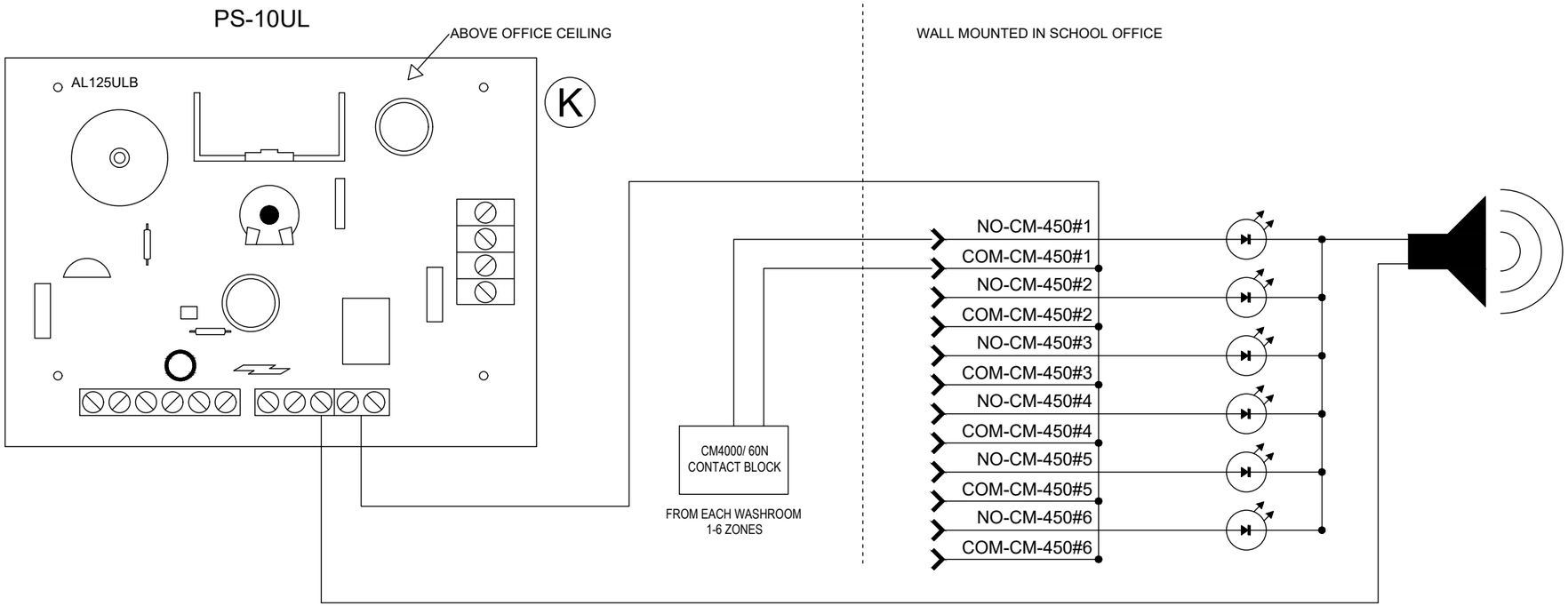
NO.	DATE	REMARKS
1	05/02/19	ADDITION TO PACKAGE

SAMPLE DIAGRAM:
PDSB ADO AND EMERGENCY CALL SYSTEM
WIRING DIAGRAM

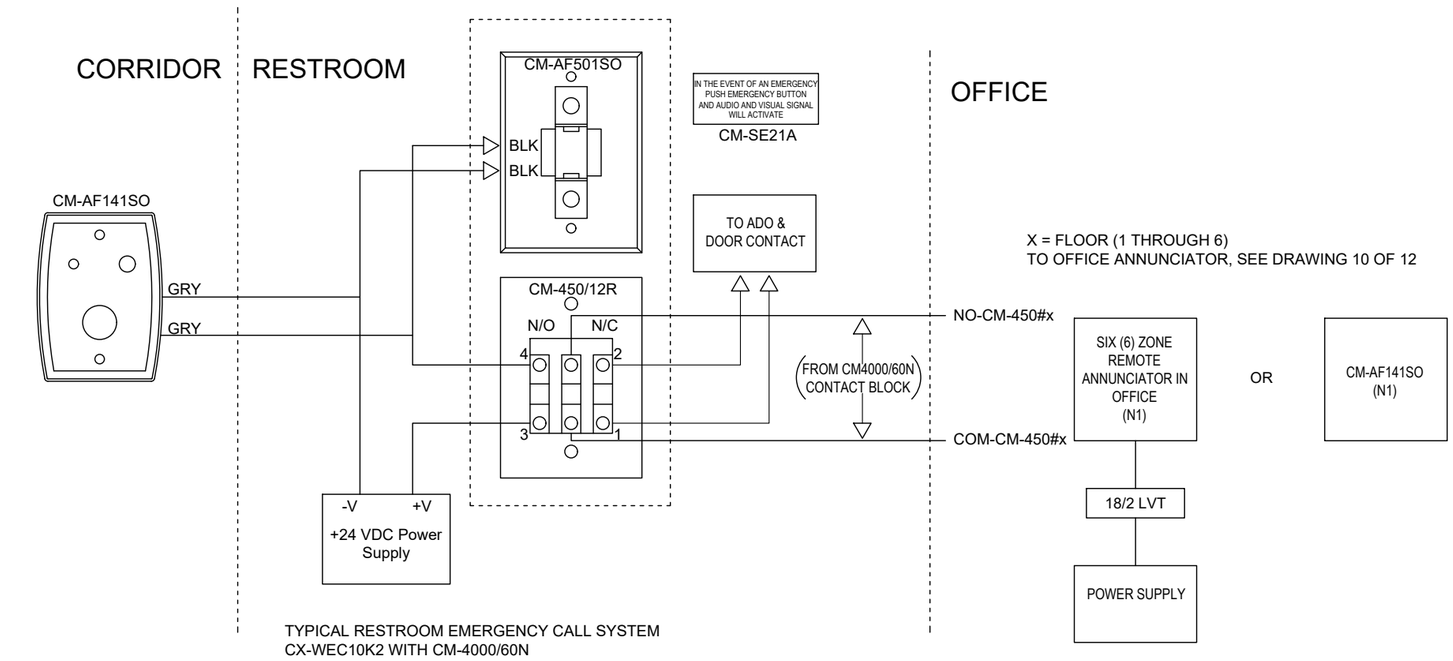
DRAWING TITLE:
HANDS-FREE DOOR OPERATOR, EMERGENCY CALL SYSTEM CX-WEC10K2, AND REMOTE STATUS LED ANNUNCIATOR OR CM-AF501SO

SHEET NUMBER:
11 OF 20

SIX (6) ZONE ANNUNCIATOR DIAGRAM



INDIVIDUAL WASHROOM DIAGRAM



TYPICAL RESTROOM EMERGENCY CALL SYSTEM
CX-WEC10K2 WITH CM-4000/60N

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GENERAL NOTES:

(N1) - OFFICE ANNUNCIATOR SHALL BE INDIVIDUAL UNITS CAT. NO. CM-AF50SO OR A REMOTE STATUS LED ANNUNCIATOR (1-6 RESTROOMS), CAT. NO. CC-CUST-FP-ENTDOO-04 AND SURFACE BOX CAT. NO. CM-53.

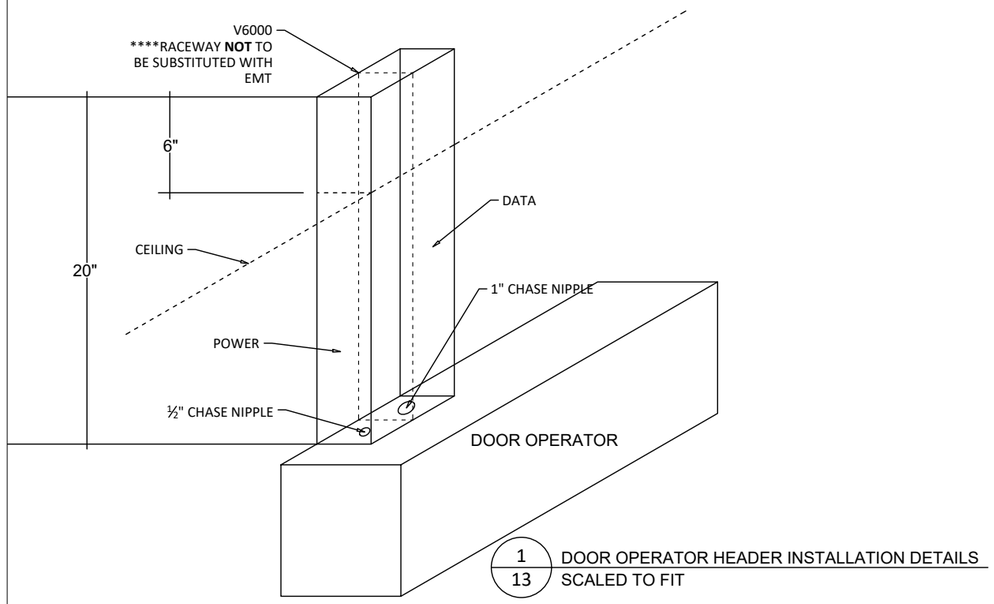
DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2

SAMPLE DIAGRAM:
EMERGENCY CALL SYSTEM WIRING DIAGRAM

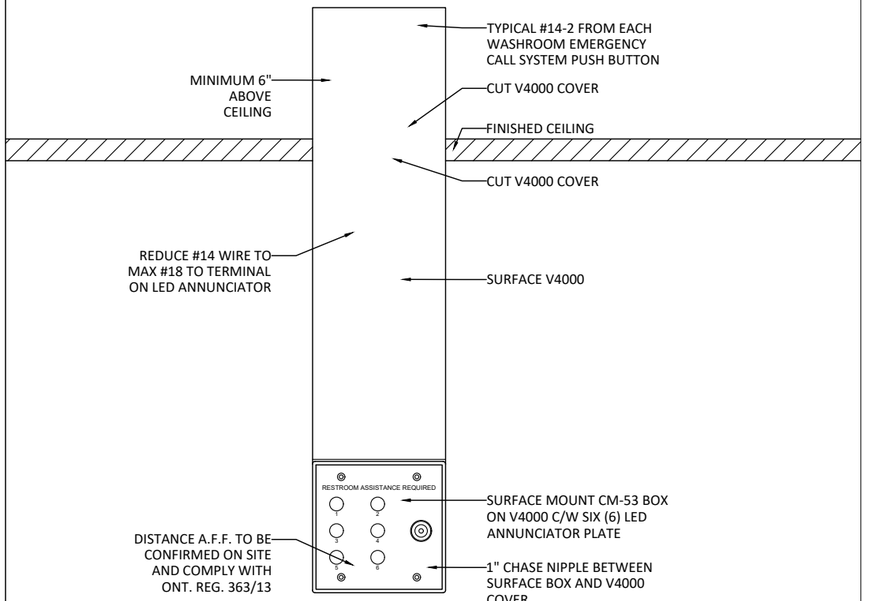
DRAWING TITLE:
REMOTE STATUS LED ANNUNCIATOR DIAGRAM

SHEET NUMBER:
12 OF 20

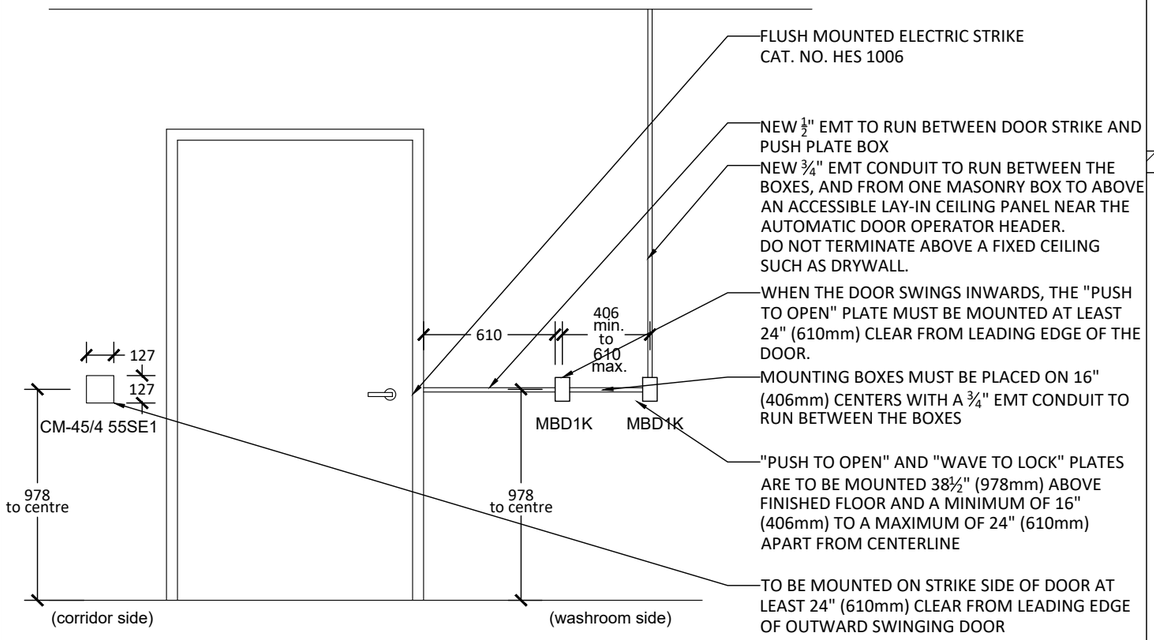


1/13 DOOR OPERATOR HEADER INSTALLATION DETAILS
SCALED TO FIT

INSTALLATION ON EXISTING MASONRY WALL

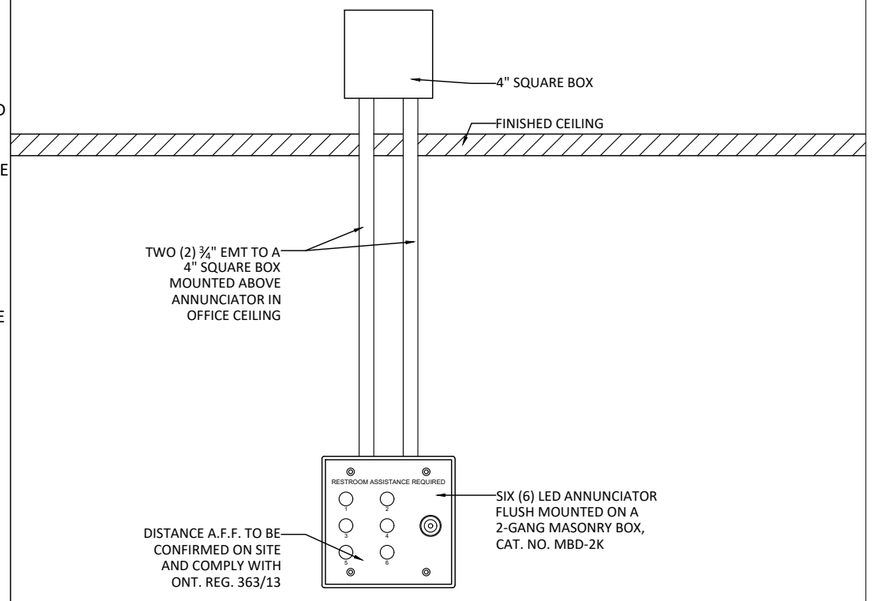


2/13 OFFICE REMOTE EMERGENCY CALL SYSTEM SIX (6) LED ANNUNCIATOR MOUNTING DETAIL
SCALED TO FIT



3/13 HANDS FREE DOOR OPERATOR PLATE MOUNTING DETAILS
SCALED TO FIT

INSTALLATION ON NEW MASONRY WALL



4/13 OFFICE REMOTE EMERGENCY CALL SYSTEM SIX (6) LED ANNUNCIATOR MOUNTING DETAIL
SCALED TO FIT

peel District School Board

GENERAL NOTES:

1. V6000 SHALL EXTEND MINIMUM 6" ABOVE SUSPENDED CEILING OR TIGHT TO THE UNDERSIDE OF A SOLID CEILING.
2. QUOTATION TO INCLUDE 20" OF V6000, 2 END CAPS, BARRIER COVER, AND CHASE NIPPLES.

OFFICE ANNUNCIATOR INSTALLATION EXAMPLE PHOTO IN EXISTING WALL:

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

APPROVED BY:

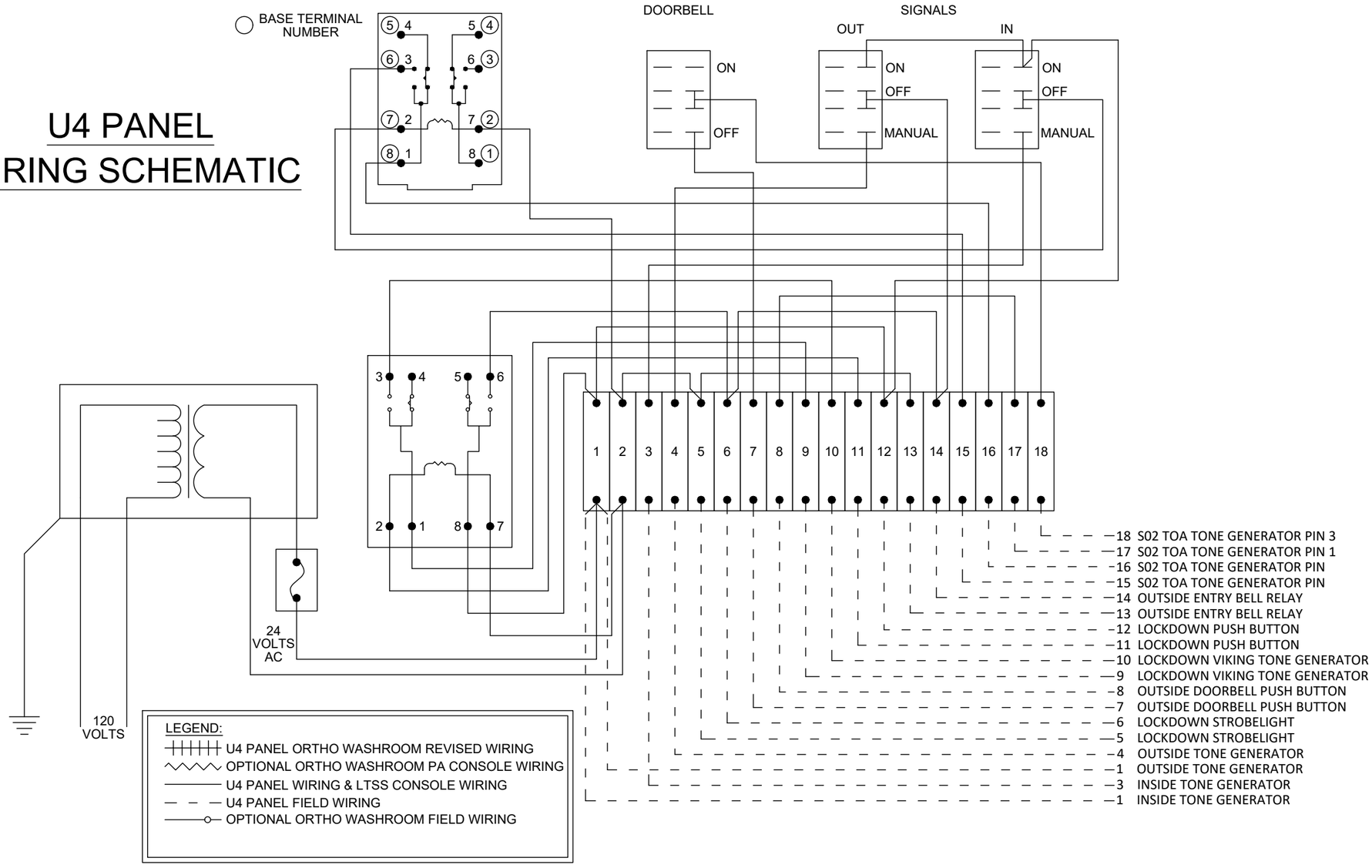
NO.	DATE	REMARKS
1	11/15/18	ISSUED FOR BID
2	01/08/19	ADDENDUM #1
3	05/02/19	ADDENDUM #2
4	07/25/19	ADDENDUM #3

SAMPLE DIAGRAM:
INSTALLATION DETAILS

DRAWING TITLE:
DOOR OPERATOR, PUSH BUTTONS, AND ANNUNCIATOR PANEL INSTALLATION DETAILS

SHEET NUMBER:
13 OF 20

U4 PANEL
WIRING SCHEMATIC



peel District School Board

GENERAL NOTES:

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

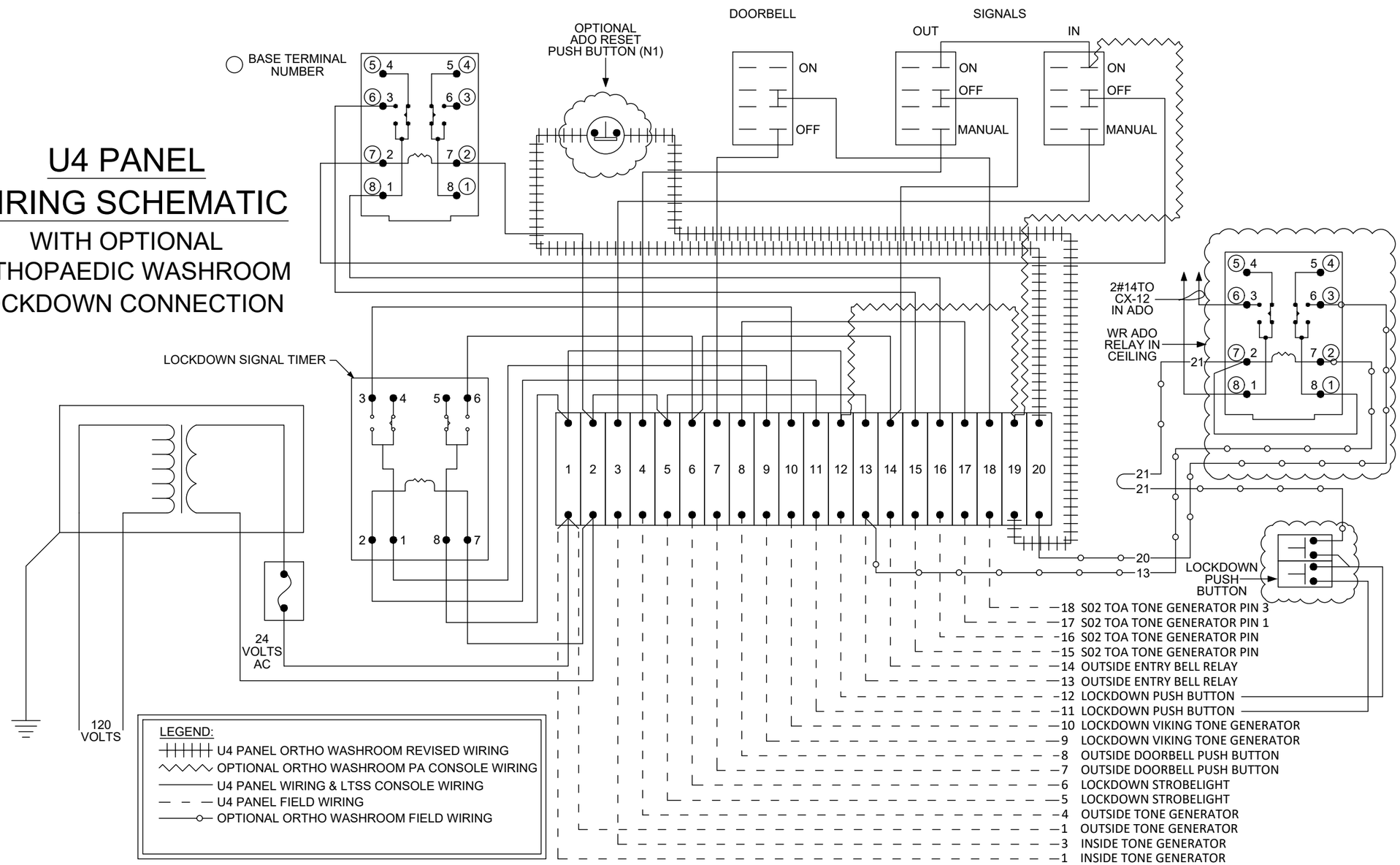
NO.	DATE	REMARKS
1	10/07/21	ADDITION TO PACKAGE

SAMPLE DIAGRAM:
WIRING DIAGRAM

DRAWING TITLE:
ANALOG PA CONSOLE
U4 PANEL
WIRING SCHEMATIC
AS ORIGINALLY INSTALLED

SHEET NUMBER:
14 OF 20

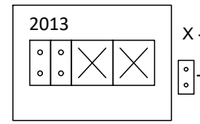
U4 PANEL
WIRING SCHEMATIC
WITH OPTIONAL ORTHOPAEDIC WASHROOM LOCKDOWN CONNECTION



peel District School Board

GENERAL NOTES:

1. BUTTON PREVIOUSLY LABELLED "ORTHO WASHROOM ADO RESET" TO BE LABELLED "ADO RESET"
2. WASHROOM ADO RELAY IS RAIL MOUNTED IN A 12" x 12" x 4" BOX, WALL MOUNTED IN CEILING SPACE ABOVE THE PA CONSOLE
   -- BOX LABELLED "ADO LOCKDOWN".



X - OMRON CAT. NO.
2 TERMINAL BLOCKS

ADDITIONAL RELAYS FOR MAIN OFFICE, LIBRARY AND CHILD CARE

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	10/07/21	ADDITION TO PACKAGE

SAMPLE DIAGRAM:
WIRING DIAGRAM

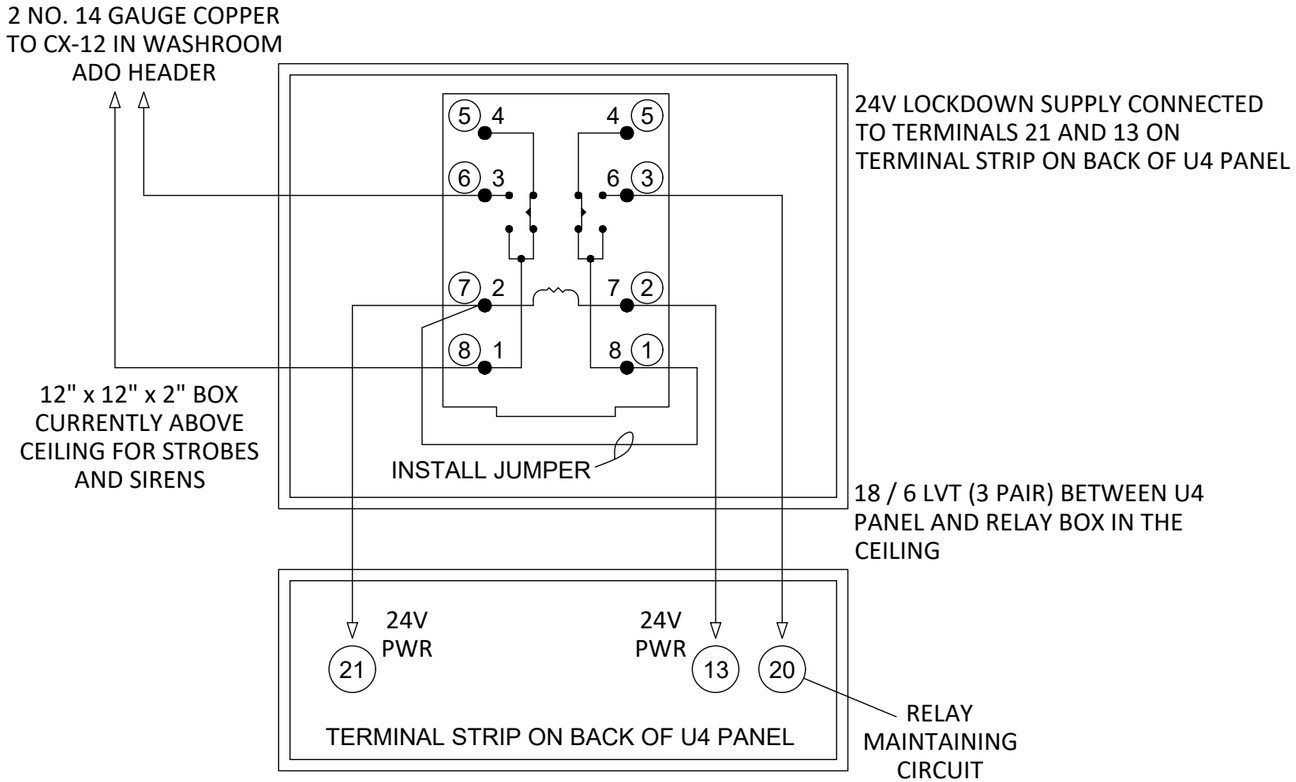
DRAWING TITLE:
ANALOG PA CONSOLE
U4 PANEL
WIRING SCHEMATIC
(WITH OPTIONAL ORTHOPAEDIC WASHROOM LOCKDOWN CONNECTION)

SHEET NUMBER:
15 OF 20

AUTOMATIC DOOR OPERATOR RELAY IN CEILING BOX

◯ BASE TERMINAL NUMBER

PLAIN NUMBER IS THE RELAY PIN NUMBER



SEQUENCE OF OPERATION:

1. LOCKDOWN IS INITIATED BY PUSHING THE "LOCKDOWN PUSH BUTTON".
2. PUSHING THE "LOCKDOWN PUSH BUTTON" OPERATES THE ADO RELAY ALSO CLOSING CONTACTS 6 & 8 WHICH MAINTAINS POWER TO THE ADO RELAY COIL FOR THE DURATION OF THE LOCKDOWN.
3. WHEN THE LOCKDOWN IS DECLARED OVER PUSHING THE ADO RESET BUTTON ON THE FACE OF THE U4 PANEL DE-ENERGIZES THE ADO RELAY COIL, OPENING ALL CLOSED RELAY CONTACTS. WITH CONTACTS 1 & 3 RETURNED TO THE OPEN POSITION, THE CX-12 RELAY IN THE ADO ON THE WASHROOM DOOR RETURNS THE LOCK TO THE OPEN OR NORMAL OPERATING STATE. WITH CONTACTS 3 & 8 OPEN THE OPEN SIGNAL REMAINS TO THE CX-12 IN THE ADO AND THE DOOR REMAINS IN ITS NORMAL OPERATING STATE UNTIL ANOTHER LOCKDOWN IS INITIATED.

WHEN THE SYSTEM IS IN LOCKDOWN MODE THE ADO ON THE WASHROOM DOOR LOCKS THE DOOR AND DISABLES THE CORRIDOR "PUSH TO OPEN" BUTTON, AND THE WASHROOM CANNOT BE ENTERED FROM THE CORRIDOR. THIS PREVENTS ACCESS TO EITHER THE OFFICE, CLASSROOM OR WHEREVER THE SECOND INTERIOR DOOR ON THESE WASHROOMS LEAD. SIMILARLY ALL OTHER DOORS CONNECTED TO WASHROOM, (MAIN OFFICE ENTRANCE, LIBRARY ENTRANCE, CHILD CARE ENTRANCE) TO LOCK DURING LOCKDOWN.

peel District School Board

GENERAL NOTES:

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	10/07/21	ADDITION TO PACKAGE

SAMPLE DIAGRAM:

WIRING DIAGRAM

DRAWING TITLE:

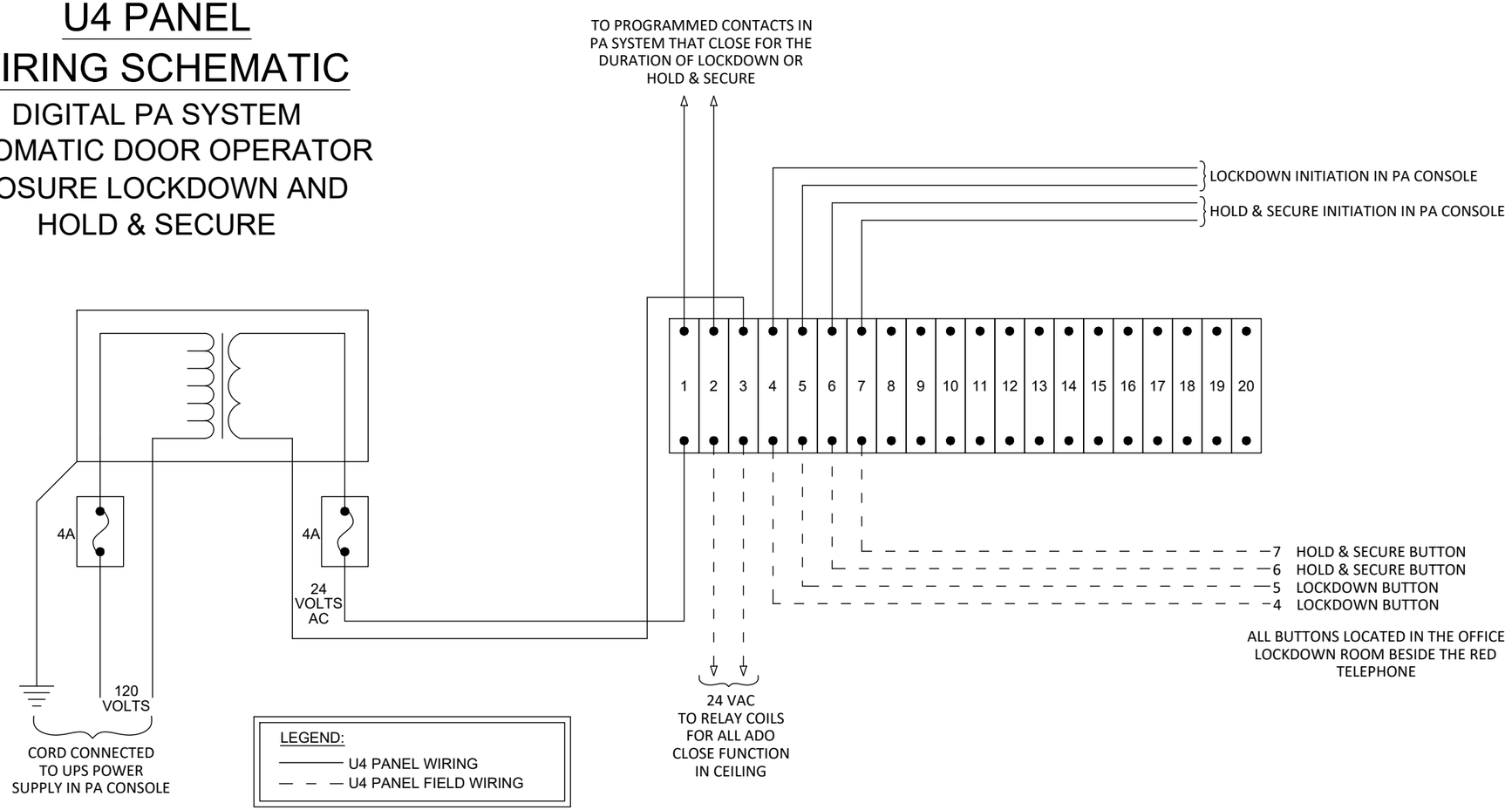
ANALOG PA SYSTEM DETAIL: TWO DOOR WASHROOM WITH CORRIDOR AUTOMATIC DOOR OPERATOR - LOCKDOWN OPERATION

SHEET NUMBER:

16 OF 20

U4 PANEL
WIRING SCHEMATIC

DIGITAL PA SYSTEM
AUTOMATIC DOOR OPERATOR
CLOSURE LOCKDOWN AND
HOLD & SECURE



OVERVIEW:

THE INTENT OF THIS DOCUMENT IS TO DEFINE THE INSTALLATION REQUIREMENTS BY THE ELECTRICAL DIVISION/DEPARTMENT TO PROVIDE THE DEVICES AND CONNECTION TO A NEW "DIGITAL PA SYSTEM" IN BOTH A NEW SCHOOL AND THE CONVERSION OF AN EXISTING "ANALOG PA SYSTEM" IN AN EXISTING SCHOOL.

THIS DOCUMENT SPECIFIES THE REQUIREMENTS FOR THE INSTALLATION OF A NEW "DIGITAL PA SYSTEM", (REFERENCE DWG. 18 OF 20) OR A CONVERSION OF AN EXISTING ANALOG PA SYSTEM, (REFERENCE DWG. 15 OF 20) TO A DIGITAL PA CONSOLE WITH REGARDS TO THE INITIATION OF A "LOCKDOWN" OR "HOLD AND SECURE" TO LOCK DESIGNATED DOORS WITH AN INSTALLED AUTOMATIC DOOR OPERATOR, (TWO DOOR ORTHOPAEDIC WASHROOMS. MAIN ENTRANCES, SECONDARY ENTRANCES, MAIN OFFICE ENTRANCES, LIBRARY STUDENT ENTRANCES, CHILD CARE ENTRANCES, AND FUTURE DOORS WITH AN INSTALLED AUTOMATIC DOOR OPERATOR MUST BE COMPLETED AS STATED IN THESE INSTRUCTIONS AND ATTACHED DRAWINGS.

THE CONNECTION OF "LOCKDOWN" AND "HOLD AND SECURE" TO NEW AND CONVERSION DIGITAL PA CONSOLES SHALL BE MADE BY LTSS PROVIDING A SET OF "DRY CONTACTS" FROM THE CONTROL BOARD IN THE PA CONSOLE TO TERMINALS 1 AND 2 ON THE AUTOMATIC DOOR OPERATOR RELAY (ADO) U4 PANEL, (SEE DRAWING 14 OF 20 & 15 OF 20 FOR PANEL DETAILS) MOUNTED IN THE PA CONSOLE. THE PROVIDED CONTACT WILL CLOSE FOR THE DURATION OF THE "LOCKDOWN" OR "HOLD AND SECURE". THE POWER SUPPLY ON THIS ADO LOCKDOWN RELAY PANEL WILL BE CORD CONNECTED TO THE UPS IN THE PA CONSOLE. THE ELECTRICAL SHALL INSTALL A TWO (2) CONDUCTOR 18/2 LVT BETWEEN TERMINALS 2 AND 3 ON THE ADO LOCKDOWN RELAY PANEL TERMINAL STRIP AND THE ADO RELAY BOX IN THE CEILING ABOVE THE PA CONSOLE.

FURTHER AS REQUIRED BY THE PEEL DISTRICT SCHOOL BOARD LOCKDOWN PROCEDURE, ALL EXISTING ELEMENTARY AND SECONDARY SCHOOLS CURRENTLY HAVE AN INSTALLED "LOCKDOWN PUSH BUTTON" TO INITIATE A "LOCKDOWN" IN THE "SAFE ROOM". TO INITIATE A "HOLD AND SECURE" A SECOND BOX AND BLUE PUSHBUTTON WILL BE INSTALLED BESIDE THE "LOCKDOWN PUSH BUTTON" IN THE SAFE ROOM.

IN ADDITION ELECTRICAL WILL INSTALL A PAIR OF 18/2 CONDUCTORS FROM THE "LOCKDOWN PUSH BUTTON" IN THE SAFE ROOM TO TERMINALS 4 AND 5 ON THE ADO LOCKDOWN RELAY PANEL TERMINAL STRIP, AND A SIMILAR PAIR OF 18/2 CONDUCTORS FROM THE NEW "HOLD AND SECURE PUSH BUTTON" TO TERMINALS 6 AND 7 ON THE ADO LOCKDOWN RELAY PANEL TERMINAL STRIP IN THE SAFE ROOM. REFER TO DRAWING 17 OF 20.

SAFE ROOM PUSH BUTTON INSTALLATION:

THE LOCKDOWN PUSH BUTTON IN THE SAFE ROOM REQUIRES ONE CONTACT BLOCK AND ONE PAIR OF WIRES (18/2 LVT) BETWEEN THE "LOCKDOWN PUSH BUTTON" AND THE TERMINAL STRIP ON THE LOCKDOWN RELAY PANEL IN THE PA CONSOLE. NOTE – THIS BUTTON , ENCLOSURE AND MOUNTING PLATE IS PRESENT IN ALL EXISTING SCHOOLS. THIS PAIR OF WIRES IS TO BE LABELLED "LOCKDOWN PUSH BUTTON" IN THE PA CONSOLE. SIMILARLY THE HOLD AND SECURE PUSH BUTTON IN THE SAFE ROOM REQUIRES ONE CONTACT BLOCK AND ONE PAIR OF WIRES (18/2 LVT) BETWEEN THE NEW "HOLD AND SECURE PUSH BUTTON" AND THE TERMINAL STRIP ON THE LOCKDOWN RELAY PANEL IN THE PA CONSOLE. THIS PAIR OF WIRES IS TO BE LABELLED "LOCKDOWN PUSH BUTTON" IN THE PA CONSOLE.

SAFE ROOM PUSH BUTTON MATERIAL LIST: *ALTERNATE MATERIALS ARE NOT PERMITTED*

LOCKDOWN PUSH BUTTON:
1 WIREMOLD 2-GANG DEEP SWITCH AND RECEPTACLE BOX, [CAT. NO. VC5744-2]
1 2-GANG SS BLANK PLATE [CAT. NO. SS23L]
1 RED PUSH BUTTON [CAT. NO. ZB4-BL4]
1 CONTACT BLOCK AND COLLAR [CAT. NO. ZB4-BZ101]
1 GUARD EATON TRANSPARENT COVER PADLOCKABLE [CAT. NO. E22PCM]
1 LAMACOID LABEL: RED 3.5"w X 2"h [DETAILS MONOGRAM]

HOLD & SECURE PUSH BUTTON:
1 WIREMOLD SINGLE GANG DEEP SWITCH AND RECEPTACLE BOX [CAT. NO. VC5744]
1 SINGLE GANG SS BLANK PLATE [CAT. NO. SS13L]
1 BLUE PUSH BUTTON [CAT. NO. ZB4-BL6]
1 CONTACT BLOCK AND COLLAR [CAT. NO. ZB4-BZ101]
1 GUARD EATON TRANSPARENT COVER PADLOCKABLE [CAT. NO. E22PCM]
1 LAMACOID LABEL: BLUE 3.5"w X 2"h [DETAILS MONOGRAM]

peel District School Board

SAMPLE PHOTOS:

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

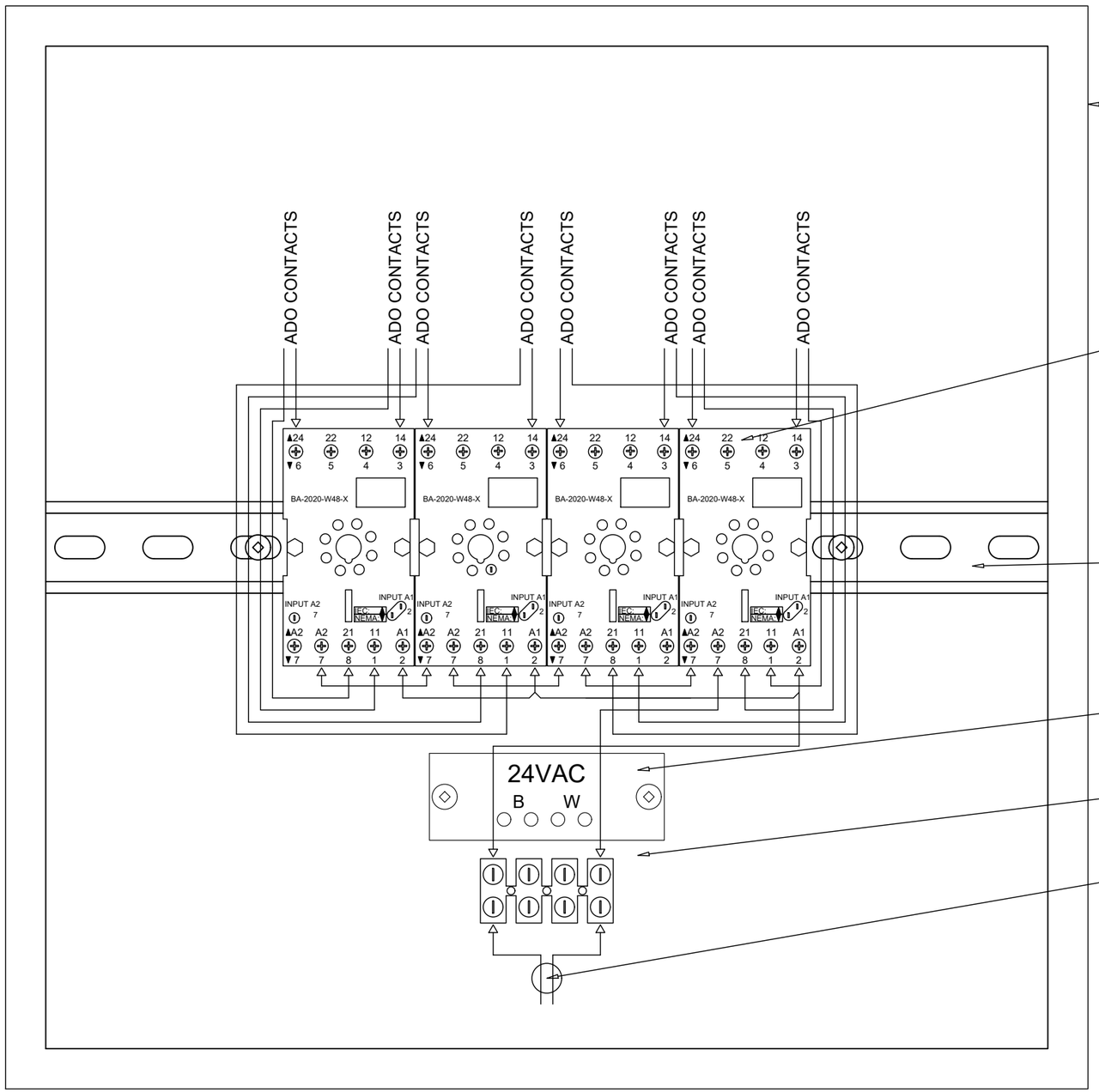
APPROVED BY:

NO.	DATE	REMARKS
1	19/05/23	ADDITION TO PACKAGE

SAMPLE DIAGRAM: WIRING DIAGRAM

DRAWING TITLE: PA CONSOLE CONVERSION: ANALOG TO DIGITAL LOCKDOWN AND HOLD & SECURE CONNECTION

SHEET NUMBER: 17 OF 20



GENERAL PURPOSE ENCLOSURE
TYPE 1, 12"W x 12"H x 4"D
(305mm X 305mm X 102mm)
CAT. NO. ELI12124

SCHNEIDER ELECTRIC
RUZC2M
SIMPLE SOCKET RELAY BASE

C/W UNIVERSAL RELAY:
SCHNEIDER ELECTRIC
RUMC22B7 RELAY

WIELAND MOUNTING RAIL
CAT. NO. TS 35x7.5 PERF 15mm -
1:2000m

LAMACOID LABEL, 1" X $2\frac{1}{2}$"
RED WITH WHITE LETTERS

WIELAND 21.311.1253.0
TERMINAL STRIP

24 VAC FROM UPS
POWER IN THE P.A.
CONSOLE FOR THE
DURATION OF THIS
"LOCKDOWN" AND/OR
"HOLD & SECURE"

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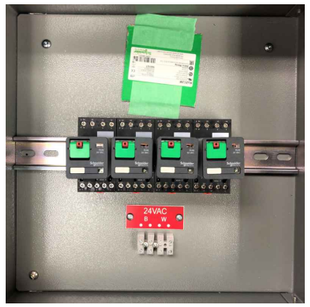
GENERAL NOTES:

1. TWO (2) ADDITIONAL BASES AND RELAYS CAN BE ADDED TO THIS BEL ENCLOSURE.
2. IF ADDITIONAL RELAY CONTACTS ARE REQUIRED A SECOND BOX CAN BE INSTALLED WITH A $\frac{1}{2}$" NIPPLE FROM THE FIRST BOX AND PARALLEL UP THE 24 VAC FEED
3. DO NOT SUBSTITUTE MATERIALS FOR LISTED PARTS



DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	10/07/21	ADDITION TO PACKAGE

SAMPLE DIAGRAM:
WIRING DIAGRAM

DRAWING TITLE:
LOCKDOWN RELAY BOX FOR DIGITAL P.A. CONSOLE

SHEET NUMBER:
18 OF 20

EXTERIOR AUTOMATIC DOOR OPERATOR INSTALLATION INSTRUCTIONS:

PDSB HAS ESTABLISHED THE FOLLOWING INSTALLATION AND OPERATION STANDARD FOR ALL AUTOMATIC DOOR OPERATORS INSTALLED ON EXTERIOR ENTRANCE DOORS.

MAIN ENTRANCE DOORS CONNECTED TO AN AIPHONE SYSTEM:
(THIS IS APPLICABLE TO ALL ELEMENTARY SCHOOLS ONLY AT THIS TIME)

- ALL MAIN ENTRANCE EXTERIOR DOOR OPERATORS HAVE AN LED KEY SWITCH THAT CONTROLS THE EXTERIOR ADO PUSH BUTTON.
- THIS KEY SWITCH HAS A GREEN AND A RED LIGHT THAT INDICATES WHETHER THE EXTERIOR PUSH BUTTON IS ACTIVATED OR DEACTIVATED.
- TO ACTIVATE OR DEACTIVATE THE EXTERIOR PUSH BUTTON THE SCHOOL MASTER KEY MUST BE INSERTED TO THE KEY SWITCH AND TURNED CLOCKWISE FROM A 12 O'CLOCK POSITION TO A 3 O'CLOCK POSITION. THE LED LIGHT WILL THEN CHANGE FROM GREEN TO RED OR VICE VERSA.
- THE GREEN LED LIGHT INDICATES THAT THE DOOR OPERATOR'S EXTERIOR PUSH BUTTON IS **ON** AND OPERATIONAL.
- THE RED LIGHT INDICATES THAT THE DOOR OPERATOR'S EXTERIOR PUSH BUTTON IS **OFF** AND WILL NOT OPEN THE DOOR WHEN ACTIVATED.

- DURING NORMAL SCHOOL OPERATING HOURS THE RED LED LIGHT MUST BE ON, AND OFFICE STAFF ARE TO RELEASE/OPEN THE MAIN ENTRANCE DOOR BY USING THE AIPHONE INTERCOM SYSTEM.
  - -- USING THE AIPHONE STATION "KEY" BUTTON IS TO RELEASE THE DOOR LOCK TO ALLOW FOR MANUAL OPENING
  - -- USING THE AIPHONE STATION "OPTION" BUTTON IS TO ACTIVATE THE MAIN ENTRANCE DOOR OPERATOR

ALL OTHER EXTERIOR ENTRANCE DOORS WITH AN AUTOMATIC DOOR OPERATOR:
(THIS APPLIES TO ALL OTHER DOORS AT ELEMENTARY SCHOOLS AND ALL DOORS AT SECONDARY SCHOOLS)

- ALL EXTERIOR DOOR WITH AN OPERATOR INSTALLED MUST HAVE AN LED KEY SWITCH ON THE AUTOMATIC DOOR OPERATOR THAT CONTROLS THE EXTERIOR PUSH BUTTON.
- THIS KEY SWITCH HAS A GREEN AND A RED LIGHT THAT INDICATES WHETHER THE EXTERIOR PUSH BUTTON IS ACTIVATED OR DEACTIVATED.
- TO ACTIVATE OR DEACTIVATE THE EXTERIOR PUSH BUTTON THE SCHOOL MASTER KEY MUST BE INSERTED TO THE KEY SWITCH AND TURNED CLOCKWISE FROM A 12 O'CLOCK POSITION TO A 3 O'CLOCK POSITION. THE LED LIGHT WILL THEN CHANGE FROM GREEN TO RED OR VICE VERSA.
- THE GREEN LED LIGHT INDICATES THAT THE DOOR OPERATOR'S EXTERIOR PUSH BUTTON IS **ON** AND OPERATIONAL.
- THE RED LIGHT INDICATES THAT THE DOOR OPERATOR'S EXTERIOR PUSH BUTTON IS **OFF** AND WILL NOT OPEN THE DOOR WHEN ACTIVATED.

- DURING NORMAL SCHOOL OPERATING HOURS THE RED LED LIGHT MUST BE ON TO ENSURE DOORS ARE SECURED AND TO PREVENT UNAUTHORIZED ENTRY.

INTERIOR AUTOMATIC DOOR OPERATOR INSTALLATION INSTRUCTIONS:

WASHROOMS:

- CAMDEN HAS ESTABLISHED A KIT THAT PROVIDES THE REQUIRED ADO OPERATING DEVICES AND EMERGENCY CALL SYSTEM.
  - -- CAMDEN: CUSTOM AURA WASHROOM KIT (FLUSH MOUNT), CAT. NO. W/CX-WEC10K2
- THE KIT CONTAINS ONE (1) OF THE FOLLOWING PARTS:
  - -- CX-33: ADVANCED LOGIC RELAY
  - -- CX-MDA: MAGNETIC DOOR CONTACTS
  - -- CM-45/455SEI: AURA ILLUMINATED WHEELCHAIR AND "PUSH TO OPEN" PUSH PLATE WITH SIGNAGE AND FLUSH MOUNT BOX
  - -- CM-331/43S-SGLR: SUREWAVE STAINLESS STEEL SINGLE GANG "WAVE TO LOCK" SWITCH WITH LIGHT RING AND SIGN
  - -- CM-45/4: FLUSH WHEELCHAIR AND "PUSH TO OPEN" $4\frac{1}{2}$" STAINLESS STEEL SQUARE PUSH PLATE SWITCH
  - -- CX-WEC10K2: EMERGENCY CALL KIT WITH A DOUBLE GANG CM-AF540S0
- IN ADDITION TO THE ABOVE KITA STAINLESS STEEL MOUNTING PLATE FROM WILENE & ASSOCIATES IS REQUIRED TO MOUNT THE CM-45/455SEI ON THE CORRIDOR SIDE OF THE MASONRY WALL. REFER TO NOTE 7 ON DRAWING 11 OF 19.
- THE PDSB SPECIFIED AUTOMATIC DOOR OPERATOR IS NABCO GT8710. ALTERNATE ADOS INCLUDE BESAM SW200 AND HORTON 4100.
- INSTALLATION INSTRUCTIONS MUST REQUIRE A SECURED (FAIL SAFE) STRIKE, HES CAT NO. 1006, C/W AN ON/OFF SWITCH MOUNTED ON THE SIDE OF THE ADO AND THE CX-33 RELAY ON SETTING #8.
- HARDWARE LATCHSET MUST BE A "STOREROOM FUNCTION".
- THE ALTERNATE STRIKE FOR SOME DOOR FRAMES IS HES 4500
- SEE DRAWINGS 11 OF 19 AND 13 OF 19 FOR WIRING AND HARDWARE INSTALLATION REQUIREMENTS.

ADO ENTRANCE DOOR INSTALLATIONS:

- DRAWINGS 1 OF 19, 2 OF 19, AND 13 OF 19 HAVE THE PDSB SPECIFICATIONS FOR THE INSTALLATION OF AN AUTOMATIC DOOR OPERATOR ON THE FOLLOWING ENTRANCES:
  - -- MAIN ENTRANCE OF A SCHOOL (EXTERIOR ENTRANCE AND VESTIBULE)
  - -- MAIN OFFICE ENTRANCE (STUDENT AND PUBLIC)
  - -- MAIN LIBRARY ENTRANCE (STUDENT)
  - -- CHILD CARE CENTRE ENTRANCE
- ALL ENTRANCES LISTED ABOVE ARE TO BE IMMEDIATELY SECURED WHEN A LOCKDOWN IS INITIATED AND REMAIN SECURE FOR THE DURATION OF THE LOCKDOWN.

- THE FOLLOWING SEQUENCE MUST BE FOLLOWED TO COMPLETE AN ADO INSTALLATION IN COMPLIANCE WITH THE PDSB SPECIFICATIONS:
  1. DURING CONSTRUCTION OR RENOVATION THE ELECTRICAL CONTRACTOR MUST ROUGH-IN ALL REQUIRED BACK BOXES AND WIRING RACEWAYS AS SPECIFIED ON THE ISSUED PROJECT DRAWINGS AND IN COMPLIANCE WITH THESE DRAWINGS.
     - 1.1. CONCEALED RACEWAYS MUST BE ELECTRICAL METALLIC TUBING (EMT) OR SURFACE V700 AND THE V6000 TO THE ADO HEADER AS INDICATED ON DRAWING 13 OF 19.
  2. FOLLOWING THE FIELD DEVICE ROUGH-IN, THE ADO HEADER IS THEN INSTALLED AT THE SPECIFIED ENTRANCE
  3. THE ELECTRICAL CONTRACTOR THEN INSTALLS THE SPECIFIED V6000 FROM ABOVE THE FINISHED CEILING TO THE HEADER COMPLETE WITH THE DIVIDER AS PER DRAWING 13 OF 19.
     - 3.1. THE V6000 COVER MUST BE CUT ABOVE THE CEILING TO PERMIT REMOVAL, AND BE A MINIMUM 8" (203mm) IN LENGTH
     - 3.2. THE ELECTRICAL CONTRACTOR THEN INSTALLS THE AC POWER FEED TO THE ADO HEADER TERMINAL STRIP AND THE SPECIFIED CABLE TO EACH FIELD DEVICE.
  4. THE ADO SUPPLIER THEN INSTALLS ALL REQUIRED FIELD DEVICES, COMPLETES THE FIELD DEVICE CONNECTIONS AND THE PROGRAMMING AND ADO HEADER ADJUSTMENTS REQUIRED TO COMPLETE THE INSTALLATION.

EMERGENCY CALL SYSTEMS:

SEE DRAWINGS 11 OF 20, 12 OF 20, 13 OF 20, AND 20 OF 20 FOR WIRING AND HARDWARE INSTALLATION FOR EMERGENCY CALL SYSTEM DEVICES IN THE WASHROOM AND THE REMOTE ANNUNCIATOR IN THE OFFICE.

NO ALTERNATE INSTALLATION METHODS ARE ACCEPTABLE.

ACCEPTABLE AUTOMATIC DOOR OPERATORS ARE AS FOLLOWS:

- BESAM SW200 FOR EXTERIOR AND WASHROOM DOORS
- BESAM SW100 FOR INTERIOR DOORS
- HORTON 7900 FOR EXTERIOR AND WASHROOM DOORS
- HORTON 7100 FOR INTERIOR DOORS
- NABCO GT8710 FOR ALL DOORS

NO ALTERNATES ARE ACCEPTABLE.

peel District School Board

GENERAL NOTES:

DATE: May. 19, 23

DRAWN BY: A. YANQUI

SCALE: N.T.S.

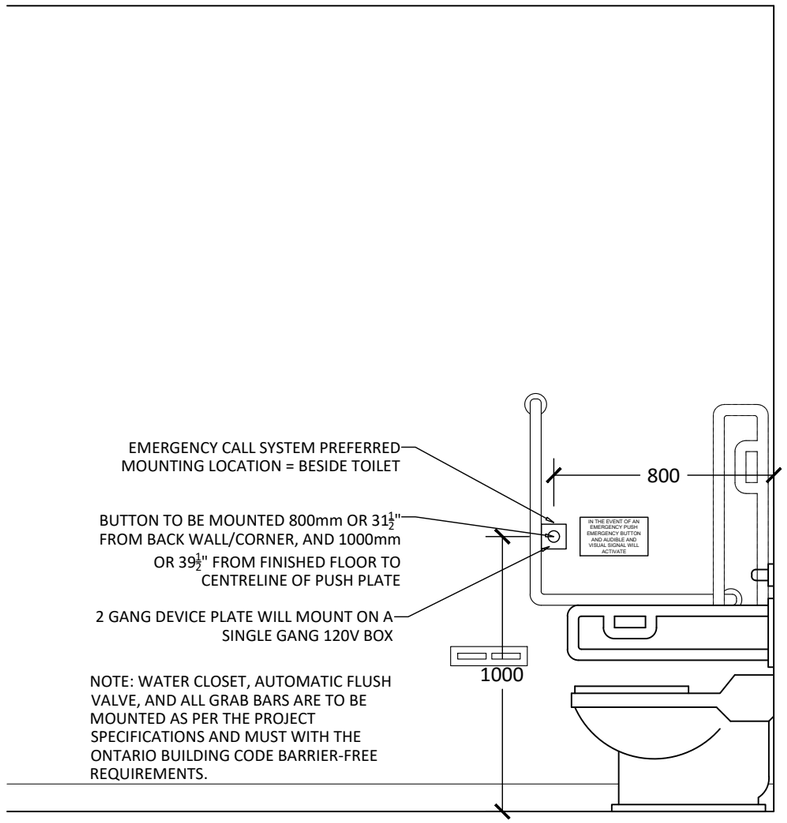
APPROVED BY:

NO.	DATE	REMARKS
1	10/07/21	ADDITION TO PACKAGE

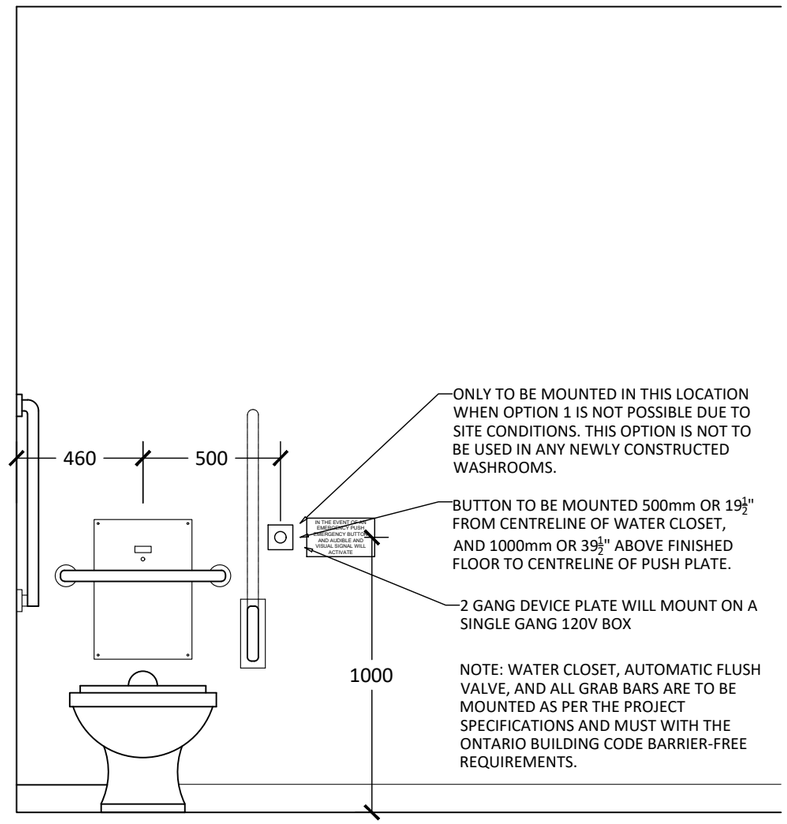
SAMPLE DIAGRAM: WIRING DIAGRAM

DRAWING TITLE: AUTOMATIC DOOR OPERATOR & EMERGENCY CALL SYSTEM INSTALLATION/OPERATION REQUIREMENTS & INSTRUCTIONS

SHEET NUMBER: 19 OF 20



1/17 EMERGENCY CALL SYSTEM: PREFERRED MOUNTING LOCATION
SCALED TO FIT



2/17 EMERGENCY CALL SYSTEM: BACK-UP MOUNTING LOCATION
SCALED TO FIT

peel District School Board

GENERAL NOTES:

DATE:	DRAWN BY:
May. 19, 23	A. YANQUI
SCALE: N.T.S.	APPROVED BY:

NO.	DATE	REMARKS
1	10/07/21	ADDITION TO PACKAGE

SAMPLE DIAGRAM:
WIRING DIAGRAM

DRAWING TITLE:
EMERGENCY CALL SYSTEM MOUNTING DIMENSIONS

SHEET NUMBER:
20 OF 20

Automatic Door Operator Instructions

Exterior Doors

All main entrance doors at Elementary and Secondary Schools have Wave Sensor touchless switches to provide touchless entry.

School Hours/Daytime – Elementary Schools

1. All main entrance doors have "Wave Sensor" touchless switches to provide touchless entry.

2. Main entrance doors are connected to the Aiphone System and have an LED key switch with a red and green light that controls the exterior "Wave Sensor".

3. Custodial staff – Do Not Turn Off the Switch on the Automatic Door Operator.

4. Custodial staff enable or disable the exterior Wave Sensor by entering the school master into the LED key switch and turn clockwise from 12 to 3.

5. A **green** light indicates the door will be operational when the Wave Sensor is activated.

6. A **red** light indicates the door will not be operational, and entrance must be gained via the existing Aiphone button or a school master key.

7. Custodial staff will no longer need to unlock the panic bar on the front door for after hours events. *(See After Hours section on reverse for more details)*

8. **During the safe schools hours the LED light must be RED**.

9. Anyone requesting entry will press the Aiphone intercom and the office staff will release the door by pressing the "key" button or by pressing the "options" button the door will open automatically.

10. All exterior doors that have Automatic Door Operators installed have an LED key switch that controls the exterior push button.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.

The panic bar should never be **dogged down**. This door should be secured by turning the LED switch to RED and disabling the exterior push button/Wave Sensor.

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Cont. on reverse

Automatic Door Operator Instructions

Exterior Doors

After Hours Events – Elementary Schools

A. Custodial staff may still choose to unlock (open or dog down) the other front door for after-hours events. After Hours access is best provided through the door with the Automatic Door Operator.

B. Custodial staff no longer need to unlock the panic bar on the front door.

C. Insert the school master into the LED key switch and turn clockwise from 12 to 3 to activate or deactivate the exterior Wave Sensor.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.

The panic bar should never be **dogged down**. This door should be secured by turning the LED switch to RED and disabling the exterior push button/Wave Sensor.

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation

David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Automatic Door Operator Instructions
Interior Doors

Main Office, Library and Orthopedic Washrooms with Two Doors Access

1. The Main Office and the Library have an LED key switch with a green and red light to control the hallway entry.

2. The custodial staff will insert the school Master into the LED switch and turn clockwise from 12 to 3 to activate or deactivate the hall Wave Sensor.

3. A **green** light indicates the Wave Sensor and/or manual push plate will be operational when activated.

4. A **red** light indicates the Wave Sensor and/or manual push plate is deactivated.

5. When the red light is ON the hall Wave Sensor on the Main Office door and the Library door will remain secured and only those staff with a key can open the door from the hall. ***Please note that the interior Wave Sensor in the Main Office and Library remain operational at all times for emergency egress.***

6. The hall doors to the Main Office, Library and Washrooms with 2 doors must have a lockset with a storeroom function so they remain locked at all times. In addition, if there is a panic bar on the door it should never be **dogged down.**

LOCKDOWN

- When a lockdown is initiated the Automatic Door Operators on the Main Office, Library, and the hall entrance to a washroom with two doors automatically disables the hall Wave Sensor and locks the door. This prevents entry for the duration of the lockdown and the door remains locked until the doors are reset. (*See reverse for reset instructions*)

- The washrooms with two doors have signage installed advising the occupant(s) to remain in the washroom until the lockdown has ended. The door can be opened from the inside at all times, but it may not be safe to enter the hall during a lockdown.

Please Note:

The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.
All doors with an Automatic Door Operator and an LED key switch should always be secured by turning the LED switch to red and disabling the exterior push button or Wave Sensor. The panic bar should never be **dogged down**.

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation.
David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022
cont. on reverse

Automatic Door Operator Instructions
Interior Doors

Resetting the Automatic Door Operators After a Lockdown

- The reset button is on the PA system.
- Push the red ADO RESET BUTTON on the analog PA system.
- On the new digital PA systems the ADOs reset automatically when the Lockdown is reset on the touch screen.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.
All doors with an Automatic Door Operator and an LED key switch should always be secured by turning the LED switch to red and disabling the exterior push button or Wave Sensor. The panic bar should never be **dogged down**.

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation

David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Automatic Door Operator Instructions

CHILD CARE CENTRES

This section refers to CHILD CARES operated independent in a designated section of the school, by an authorized party and are not part of the school program.

1. All entrances to these Child Cares have an ADO with Wave Sensors and an LED key switch.

2. If the Child Care operator wishes to restrict entry through the exterior door, the LED key switch must be turned to RED to disable the exterior Wave Sensor and prevent entry.

3. The exterior entrance door to the Child Care is also automatically locked when a lockdown is initiated.

4. The exterior entrance ADO returns to operation when all ADO's are reset. *(See resetting the Automatic Door Operator)*

Resetting the Automatic Door Operators After a Lockdown

- The reset button is on the PA system.

- Push the red ADO RESET BUTTON on the analog PA system.

- On the new digital PA systems the ADOs reset automatically when the Lockdown is reset on the touch screen.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.
All doors with an Automatic Door Operator and an LED key switch should always be secured by turning the LED switch to red and disabling the exterior push button or Wave Sensor. The panic bar should never be **dogged down**.

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation
David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Automatic Door Operator Instructions

Exterior Doors

All main entrance doors at Elementary and Secondary Schools have Wave Sensor touchless switches to provide touchless entry.

School Hours/Daytime – Secondary Schools

1. All main entrance doors have "Wave Sensor" touchless switches to provide touchless entry.

2. All main entrance doors have an LED key switch with a red and green light that controls the exterior "Wave Sensor". Some Secondary schools have an ALGO system and entry to the school can be provided by using this system.

3. Custodial staff – Do Not Turn Off the Switch on the Automatic Door Operator.

4. Custodial staff enable or disable the exterior Wave Sensor by entering the school master into the LED key switch and turn clockwise from 12 to 3.

5. A **green** light indicates the door will be operational when the Wave Sensor is activated.

6. A **red** light indicates the door will not be operational, and entrance must be gained by using an ALGO button, identified push button or school master key.

7. Custodial staff will no longer need to unlock the panic bar on the front door for after hours events. *(See After Hours section on reverse for more details)*

8. **During the Safe School Protocol hours the LED light must be RED**.

9. Anyone requesting entry with an installed ALGO system will press the ALGO intercom and the office staff will either release the door to open manually or open the door automatically.

10. All exterior doors that have Automatic Door Operators installed have an LED key switch that controls the exterior push button.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.

The panic bar should never be **dogged down**. This door should be secured by turning the LED switch to RED and disabling the exterior push button/Wave Sensor.

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Cont. on reverse

Automatic Door Operator Instructions

Exterior Doors

After Hours Events – Secondary Schools

A. Custodial staff may still choose to unlock (open or dog down) the other front door for after hours events. After Hours access is best provided through the door with the Automatic Door Operator.

B. Custodial staff no longer need to unlock the panic bar on the front door.

C. Insert the school master into the LED key switch and turn clockwise from 12 to 3 to activate or deactivate the exterior Wave Sensor.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.

The panic bar should never be **dogged down.** This door should be secured by turning the LED switch to RED and disabling the exterior push button/Wave Sensor.

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation

David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Automatic Door Operator Instructions
Interior Doors

Main Office, Library and Orthopedic Washrooms with Two Doors Access

1. The Main Office and the Library have an LED key switch with a green and red light to control the hallway entry.

2. The custodial staff will insert the school Master into the LED switch and turn clockwise from 12 to 3 to activate or deactivate the hall Wave Sensor.

3. A **green** light indicates the Wave Sensor and/or manual push plate will be operational when activated.

4. A **red** light indicates the Wave Sensor and/or manual push plate is deactivated.

5. When the red light is ON the hall Wave Sensor on the Main Office door and the Library door will remain secured and only those staff with a key can open the door from the hall. ***Please note that the interior Wave Sensor in the Main Office and Library remain operational at all times for emergency egress.***

6. The hall doors to the Main Office, Library and Washrooms with 2 doors must have a lockset with a storeroom function so they remain locked at all times. In addition, if there is a panic bar on the door it should never be **dogged down.**

LOCKDOWN

- When a lockdown is initiated the Automatic Door Operators on the Main Office, Library, and the hall entrance to a washroom with two doors automatically disables the hall Wave Sensor and locks the door. This prevents entry for the duration of the lockdown and the door remains locked until the doors are reset. (*See reverse for reset instructions*)

- The washrooms with two doors have signage installed advising the occupant(s) to remain in the washroom until the lockdown has ended. The door can be opened from the inside at all times, but it may not be safe to enter the hall during a lockdown.

Please Note:

The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.
All doors with an Automatic Door Operator and an LED key switch should always be secured by turning the LED switch to red and disabling the exterior push button or Wave Sensor. The panic bar should never be **dogged down.**

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation.

David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Cont. on reverse

Automatic Door Operator Instructions
Interior Doors

Resetting the Automatic Door Operators After a Lockdown

- The reset button is on the PA system.
- Push the red ADO RESET BUTTON on the analog PA system.
- On the new digital PA systems the ADOs reset automatically when the Lockdown is reset on the touch screen.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.
All doors with an Automatic Door Operator and an LED key switch should always be secured by turning the LED switch to red and disabling the exterior push button or Wave Sensor. The panic bar should never be **dogged down.**

IMPORTANT!
WHEN SECURING THE BUILDING AND SETTING THE SECURITY ALARM ALL DOORS WITH AN AUTOMATIC DOOR OPERATOR MUST BE CHECKED TO ENSURE ALL LED KEY SWITCHES ARE "RED" TO ENSURE THE EXTERIOR PUSH BUTTON/WAVE SENSOR IS DISABLED!

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation

David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Automatic Door Operator Instructions

CHILD CARE CENTRES

This section refers to CHILD CARES operated independent in a designated section of the school, by an authorized party and are not part of the school program.

1. All entrances to these Child Cares have an ADO with Wave Sensors and an LED key switch.

2. If the Child Care operator wishes to restrict entry through the exterior door, the LED key switch must be turned to RED to disable the exterior Wave Sensor and prevent entry.

3. The exterior entrance door to the Child Care is also automatically locked when a lockdown is initiated.

4. The exterior entrance ADO returns to operation when all ADO's are reset. *(See resetting the Automatic Door Operator)*

Resetting the Automatic Door Operators After a Lockdown

- The reset button is on the PA system.

- Push the red ADO RESET BUTTON on the analog PA system.

- On the new digital PA systems the ADOs reset automatically when the Lockdown is reset on the touch screen.

Please Note:
The Automatic Door Operator unit should **never be turned OFF** as it prevents persons requiring egress for emergency situations from using the push button or Wave Sensor.
All doors with an Automatic Door Operator and an LED key switch should always be secured by turning the LED switch to red and disabling the exterior push button or Wave Sensor. The panic bar should never be **dogged down.**

Please contact your Facility Manager with any questions or concerns regarding your Automatic Door Operator operation
David Dadd,
Manager, Accessibility & Special Initiatives
Version 2
February 8, 2022

Appendix D Hardware Schedule

PEEL DISTRICT SCHOOL BOARD
CALEDON CENTRAL PS

1.1 HARDWARE GROUPS

HARDWARE MANUFACTURERS:

1. **IV-IVES**
2. **BE-BEST**
3. **CBH-CANADIAN BUILDER HDW**
4. **STM-STANDARD METAL**
5. **RK-ROCKWOOD**
6. **SG-SARGENT**
7. **LC-LCN DOOR CLOSERS8. CR-KN CROWDER**
9. **VD-VON DUPRIN**

1.2 HARDWARE SCHEDULE

DOOR#D1 CLASSROOM 103 LH C 2057 X 864

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D2 CLASSROOM 105 LH C 2057 X 864

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D3 BOY'S WR 134 RH 1 A 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	HOSPITAL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D4 BOY'S WR (VESTIBULE) 134 LH A 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	HOSPITAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D5 CUSTODIAN CLOSET 133 RHR 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D7 GIRL'S WR (VESTIBULE) 132 RH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	HOSPITAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D6 GIRL'S WR 132 LH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D8 ELECTRICAL/BOILER ROOM 131 RH 1 A 2 HR - 2057 X 914 PT FIRE-RATED

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D9 ELECTRICAL/BOILER 113A RHR 1 A 2 HR - 2108 X 914 PT FIRE-RATED

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D10 CORRIDOR CLOSET - (3) LHR 2819 X 2959 PT

9	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
3	EA	CLASSROOM LOCK	7KC37R15DS3626RHR LESS CORE	BE	626
9	EA	DOOR SILENCERS	SR64	IVES	GRY
3	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D11 ALL GENDER WR 130 RH 1 A 2083 X 762 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	IND. MORT LOCK	L945606BL283-722RH	SCH	626
1	EA	MORT. HOUSING	1E74C265RP3	BE	626
1	EA	TRIM RING	1ER812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	LOUVRE	LV-IYG1812	RK	
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 28" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D12 STAFF WR 129 LH 1 A 2083 X 762 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	IND. MORT LOCK	L945606BL283-722RH	SCH	626
1	EA	MORT. HOUSING	1E74C265RP3	BE	626
1	EA	TRIM RING	1ER812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY

1	EA	KICK PLATES	CBH903 8” X 28” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D13 INSTRUCTOR WR 128 (SHOWER) RH 1 A 2083 X 762 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	IND. MORT LOCK	L945606BL283-722RH	SCH	626
1	EA	MORT. HOUSING	1E74C265RP3	BE	626
1	EA	TRIM RING	1ER812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 28” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D14 BACKSTAGE DOOR 108 LHR 1 C 2083 X 864 PT

3	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	8888F	SG	32D
1	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
1	EA	MORT. HOUSING	1E74C208RP3	BE	626
1	EA	CYL. COLLAR	1E-R812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	STM	32D
3	EA	DOOR SILENCERS	SR64	IV	GR
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D15 KITCHEN 108B LH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D16 ORTHO. WR 127 LH - - - - - - - - - PT PAINT ONLY

DOOR#D17 GYM 108 LHR/RHR B 1 HR FR 2083 X 914 PT A FIRE-RATED

6	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
2	EA	EXIT DEVICE	12-8888F	SG	32D
1	EA	REM. MULLION	KR9954	VD	
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
3	EA	MORT. HOUSING	1E74C208RP3	BE	626
3	EA	CYL. COLLAR	1E-R812	BE	626

2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34” TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
3	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D18 GYM/WEST SIDE 108(HALLWAY)RH 1 C 1 HR FR 2083 X 864 PT D FIRE-RATED

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA		
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D19 GYM/NORTH SIDE 108 RHR 1 C 1 HR FR 2083 X 914 PT D FIRE-RATED

3	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-8888F	SG	32D
1	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
1	EA	MORT. HOUSING	1E74C208RP3	BE	626
1	EA	CYL. COLLAR	1E-R812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	STM	32D
3	EA	DOOR SILENCERS	SR64	IV	GR
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D20 GYM/STAGE LEFT 108 LH1 D 2134 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D21 GYM/BACKSTAGE DOOR 108 RHR 1 D 2083 X 864 PT

3	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	8888F	SG	32D
1	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
1	EA	MORT. HOUSING	1E74C208RP3	BE	626
1	EA	CYL. COLLAR	1E-R812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	STM	32D
3	EA	DOOR SILENCERS	SR64	IV	GR
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D22 GYM/STAGE RIGHT 108 LH 1 D 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D23 GYM/KITCHEN DOOR 108B LH - - - - - - - - 2083 X 864 - PDSB TO
DUTCH DOOR

4	EA	HINGES	5BB1454630NRP **4-1/2" X 4"**	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
3	EA	HOSPTIAL PULL	CBH353 4 X 6	CBH	32D
1	EA	SURFACE BOLT	SB25	KR	626
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	ROLLER LATCH	F78	STM	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37MSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D24 BOY'S CHANGE ROOM 123 RH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D25 BOY'S CHANGE ROOM VESTIBULE RH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D26 GIRL'S CHANGEROOM 124 LH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D27 GIRL'S CHANGERM (VEST) 124 LH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D28 SERVER ROOM 125 RH 1 A 2083 X 813 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 30" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D29 MUSIC ROOM 109 RH 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D30 STAIR TO ROOF MPH - RHR 1 A 1 HR - 2108 X 914 PT FIRE-RATED

3	EA	HINGES	5BB145360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-8888F	SG	32D

1	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
1	EA	MORT. HOUSING	1E74C208RP3	BE	626
1	EA	CYL. COLLAR	1E-R812	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	STM	32D
3	EA	DOOR SILENCERS	SR64	IV	GR
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D31 SEMINAR ROOM 126 LH 1 C 2235 X 914 PT B

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D32 LIBRARY 115 RHR 1 C 2235 X 914 PT C

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D33 COMPUTER ROOM 113 LH PT PAINT FRAME AND NEW INFILL GLASS

DOOR#D34 LIBRARY OFFICE 115A LH 1 C 2108 X 914 PT PAINT ALL FRAMES, NEW DOOR AND TRANSOM PANEL

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D35 GYM STORAGE 110A LHR/RHR 2 A 2108 X 914 PT DOUBLE DOORS

6	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL. PULL	CBH352	CBH	32D
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	FLUSH BOLT	FB458	IV	626
2	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
2	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
6	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D36 GYM(RIGHT SIDE) 110 LHR/RHR 2 B 1 HR 2083 X 914 PT A FIRE-RATED

6	EA	HINGES	5BB145360NRP 4-1/2 X 4 NRP	IV	32D
2	EA	EXIT DEVICE	12-8888F	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
1	EA	REM. MULLION	KR9954	VD	
3	EA	MORT. HOUSING	1E74C208RP3	BE	626
3	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPPA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34” TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
3	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D37 GYM(LEFT SIDE) 110 LHR/RHR 2 B 1 HR 2083 X 914 PT A NEW LIGHTS FIRE-RATED

6	EA	HINGES	5BB145360NRP 4-1/2 X 4 NRP	IV	32D
2	EA	EXIT DEVICE	12-8888F	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
1	EA	REM. MULLION	KR9954	VD	
3	EA	MORT. HOUSING	1E74C208RP3	BE	626
3	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPPA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34” TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
3	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D38 LIBRARY(NORTH) 115 LHR 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D39 STAIR F 175 LHR / RHR 2 B 1 HR FR 2108 X 940 PT A FIRE-RATED

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 35”TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR

2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D40 STORAGE ROOM 118B RH 1 A 2108 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D41 ART ROOM (RIGHT SIDE) 118 RHR 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D42 STORAGE ROOM 118A LH 1 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D43 ART ROOM (LEFT SIDE) 118 LHR 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D44 TECH. AND SCIENCE ROOM 116 RHR 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D45 LIBRARY (EAST SIDE) 115 LHR 1 C 2108 X 914 PT CHANGE TO DBL DOOR

6	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
2	EA	EXIT DEVICE	12-8888F	SG	32D
2	EA	EXIT DEVICE TRIM	704-8 ETL	SG	32D
1	EA	REM. MULLION	KR4954	VD	
1	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	RIM. HOUSING	12E72RP3	BE	626
3	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPPA	LC	689
2	EA	KICK PLATES	CBH903 8" X 34" TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
3	EA	INTERIOR CORES	IC7N26	BE	626

REUSE OPERTAOR

DOOR#D46 STAFF ROOM 114 LH 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D47 STAIR D 184 LH / RH 2 B 1 HR FR 2235 X 914 PT FIRERATED(88")

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8" X 34"TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D47A COMPUTER LAB RH 1 A 2057 X 864 PT ADDED TO SCOPE

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	OH SURF STOP	904S	GJ	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D48 GIRL'S WR 120 RH 1 A 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D

1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D49 GIRL'S WR (VESTIBULE) 120 LH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D50 GIRL'S WR (TO CHANGE ROOM) 120 LHR A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D51 CUSTODIAN CLOSET 121B RHR 1 A 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XP	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D52 STORAGE ROOM 121A LHR 1 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626

3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D53 BOY'S WR 121 LH 1 A 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D54 BOY'S WR(VESTIBULE) 121 RH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D55 BOY'S WR(CHANGE ROOM)121 RHR 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D56 CLASSROOM 111 RHR 1 C 2057 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	OH SURF STOP	904S	GJ	
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D

1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D57 STAIR E 183 LHR / RHR 2 B 1 HR FR 2134 X 914 PT D FIRE-RATED

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34”TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D58 MAIN FOYER HALLWAY - LHR / RHR 2 D 2134 X 914 PT D FIRE RATED

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34”TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D59 REC/GENERAL OFFICE 122 RHR 1 C 2057 X 914 PT F

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

REUSE DOOR OPERATOR ET AL

DOOR#D60 STAIR E - LHR / RHR 2 B 1 HR FR 2134 X 914 PT A FIRE-RATED

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626

2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34”TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D61 SCIENCE ROOM 200 LHR 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D62 WORK ROOM (RIGHT) 200A RHR 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D63 WORK ROOM (LEFT) 200A LHR 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D64 SCIENCE ROOM 200 LHR 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D65 CLASSROOM 201 LH 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D

1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D66 STORAGE 201A RH 1 A 2083 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D67 CUSTODIAN CLOSET 201B RH 1 A 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D68 CLASSROOM 202 RHR 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	OH SURF STOP	904S	GJ	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D69 CLASSROOM 203 RH 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D70 CLASSROOM 204 LHR 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	OF SURF STOP	904S	GJ	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 32” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

PEEL DISTRICT SCHOOL BOARD
CALEDON CENTRAL PS

DOOR#D71 CLASSROOM 205 RH 1 C 2108 X 864 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
1	EA	OF SURF STOP	904S	GJ	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 32" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D72 BOY'S WR205A LH 1 A 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D73 BOY'S WR(VESTIBULE) 205A RH 1 A 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	LOUVRE	IV-IYG1812	RK	
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D74 MEN'S WASHROOM 205B LH 1 A 2134 X 813 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	IND. MORT LOCK	L945606BL283-722RH	SCH	626
1	EA	MORT. HOUSING	1E74C265RP3	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	LOUVRE	LV-IYG1812	RK	
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 28" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

PEEL DISTRICT SCHOOL BOARD
CALEDON CENTRAL PS

DOOR#D75 STAIR D - LHR / RHR 2 B 1 HR FR 2134 X 914 PT A FIRE-RATED

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34”TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D76 CUSTODIAN CLOSET 205C RHR 1 A 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D77 WOMEN'S WR 205D RH 1 A 2134 X 813 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	IND. MORT LOCK	L945606BL283-722RH	SCH	626
1	EA	MORT. HOUSING	1E74C265RP3	BE	626
1	EA	DOOR CLOSER	4040XPPA	LC	689
1	EA	LOUVRE	LV-IYG1812	RK	
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 28” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D78 GIRL'S WR 205E RH 1 A 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16”	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	DEADBOLT LOCK	8T37SSTK 626 LESS CORE	BE	626
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D79 GIRL'S WR(VESTIBULE) 205E LH 1 A 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CYL PULL	CBH352	CBH	32D
1	EA	HOSPTIAL PULL	CBH375	CBH	32D
1	EA	DOOR CLOSER	4040XP	LC	689
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	PUSH PLATE	K11A 4 X 16"	STM	32D
3	EA	DOOR SILENCERS	SR64	IVES	GRY

DOOR#D80 CLASSROOM 206 RH 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D81 CLASSROOM 207 LH 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D82 CLASSROOM 208 LHR 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D83 CLASSROOM 209 RH 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8" X 34" TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D84 CLASSROOM 210 RHR 1 C 2108 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2" X 4"	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY

1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D85 CLASSROOM 211 LH 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D86 CLASSROOM 212 RHR 1 C 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	CLASSROOM LOCK	9K37R15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D87 STORAGE ROOM 213 RH 1 A 2134 X 914 PT

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	STOREROOM LOCK	9K37D15DS3626RHR LESS CORE	BE	626
3	EA	DOOR SILENCERS	SR64	IVES	GRY
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	CBH	32D
1	EA	INTERIOR CORES	IC7N26	BE	626

DOOR#D88 STAIR F - LHR / RHR 2 B 1 HR FR 2134 X 914 PT A FIRE RATED

6	EA	HINGES	5BB1HW45360NRP 4-1/2 X 4 NRP	IV	32D
1	EA	EXIT DEVICE	12-NB8713J N/T LH	SG	32D
1	EA	EXIT DEVICE	12-NB8713J N/T RH	SG	32D
2	EA	EXIT DEVICE TRIM	713-8 ETL	SG	32D
2	EA	MORT. HOUSING	1E74C208RP3	BE	626
2	EA	CYL. COLLAR	1E-R812	BE	626
2	EA	DOOR CLOSER	4040XPEDA	LC	689
2	EA	KICK PLATES	CBH903 8” X 34”TAPE	STM	32D
6	EA	DOOR SILENCERS	SR64	IV	GR
2	EA	INTERIOR CORES	IC7N26	BE	626

REUSE MAG HOLD OPENS BY PDSB

DOOR#D89 ELEVATOR DOOR 40” ADDED TO SCOPE

3	EA	HINGES	5BB1454630NRP 4-1/2” X 4”	IV	32D
1	EA	EXIT DEVICE	12-8888F	SG	32D
1	EA	EXIT DEVICE TRIM	704-8 ETL	SG	32D
1	EA	RIM. HOUSING	12E72RP3	BE	626

1	EA	CYL. COLLAR	1E-R812	BE	626
1	EA	KICK PLATES	CBH903 8” X 34” TAPE	STM	32D
3	EA	DOOR SILENCERS	SR64	IV	GR
1	EA	INTERIOR CORES	IC7N26	BE	626

REUSE OPERTAOR

Interior cores supplied and installed by PDSB

END OF SECTION 087100

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
R000	TITLE PAGE
R100	SITE PLAN
R200	FIRST FLOOR PLAN
R201	SECOND FLOOR PLAN
R202	INTERIOR DOOR SCHEDULE
R203	INTERIOR DOOR SCHEDULE
R400	TYPICAL DOOR ELEVATIONS
R401	TYPICAL FRAME ELEVATIONS
R402	TYPICAL FRAME ELEVATIONS
R500	TYPICAL DOOR JAMB ANCHOR DETAILS
R501	TYPICAL DOOR FRAME DETAILS
R502	TYPICAL DOOR THRESHOLD DETAILS
R503	TYPICAL SEALANT DETAILS

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Original drawing sheet is 11 x 17.

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Project No. 23-0485

Professional Seal

No.	Issue Description	YYYY-MM-DD
1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

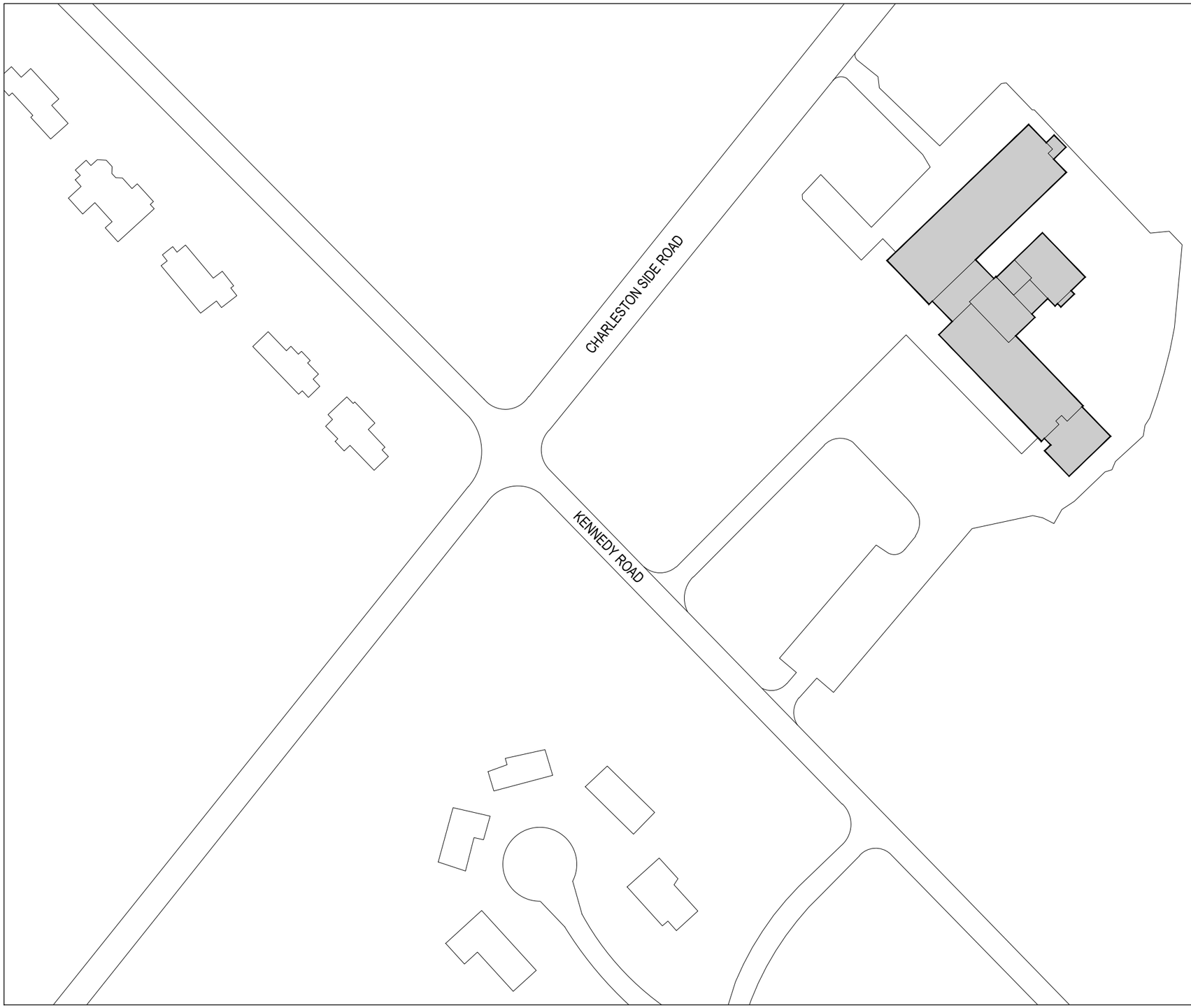
Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

TITLE PAGE

Drawing Number

R000



1 / R100 SITE PLAN
SCALE: 1:1500

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Professional Seal

No.	Issue Description	YYYY-MM-DD
1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

North

N

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

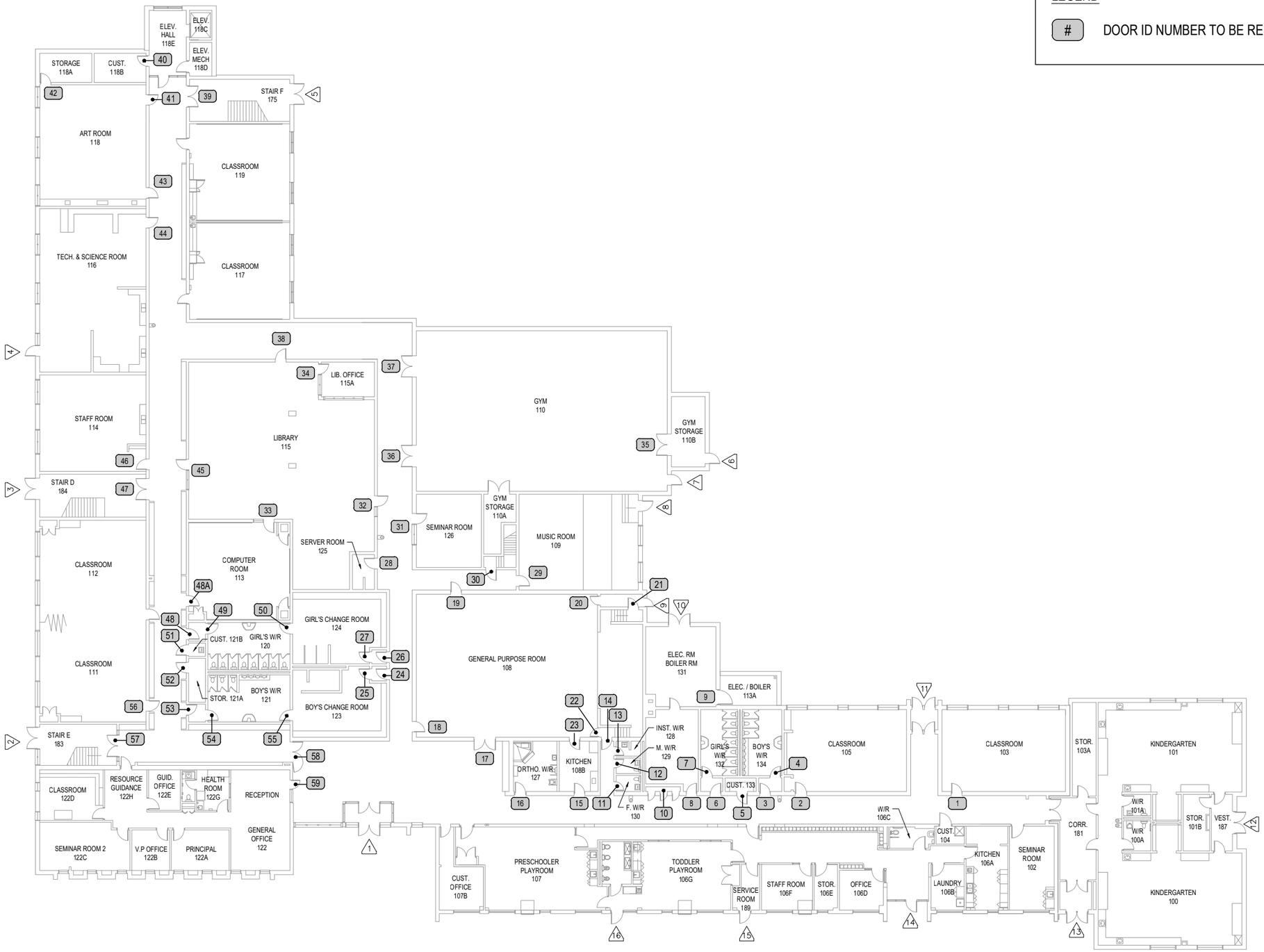
SITE PLAN

Drawing Number

R100

LEGEND

DOOR ID NUMBER TO BE REPLACED



1 / R200 FIRST FLOOR PLAN

SCALE: 1:500

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1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

North

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

FIRST FLOOR PLAN

Drawing Number

R200

LEGEND

DOOR ID NUMBER TO BE REPLACED

1 / R201 SECOND FLOOR PLAN

SCALE: 1:500

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1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

North

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

SECOND FLOOR PLAN

Drawing Number

R201

FIRST FLOOR INTERIOR DOOR SCHEDULE

IDENTIFICATION			DOOR											FRAME			
DOOR ID	ROOM NAME	ROOM NUMBER	SWING	NUMBER OF DOORS	DOOR ELEVATION TYPE	MATERIAL	FINISH	HIGH TRAFFIC	NEW FRAME	FIRE RATING (HR)	GLAZING TYPE	HEIGHT (mm)	WIDTH (mm)	FRAME FINISH	FRAME TYPE	HARDWARE	NOTES
D1	CLASSROOM	103	LH	1	C	HM	PT		-	-	SG	2057	864	PT			
D2	CLASSROOM	105	LH	1	C	HM	PT		-	-	SG	2057	864	PT			
D3	BOY'S WASHROOM	134	RH	1	A	HM	PT		-	-	-	2057	864	PT			
D4	BOY'S WASHROOM (VESTIBULE)	134	LH	1	A	HM	PT		-	-	-	2057	864	PT			
D5	CUSTODIAN CLOSET	133	RHR	1	A	HM	PT		-	-	-	2083	864	PT			
D6	GIRL'S WASHROOM	132	LH	1	A	HM	PT		-	-	-	2083	864	PT			
D7	GIRL'S WASHROOM (VESTIBULE)	132	RH	1	A	HM	PT		-	-	-	2083	864	PT			
D8	ELECTRICAL / BOILER ROOM	131	RH	1	A	HM	PT		-	2 HR	-	2057	914	PT			FIRE-RATED
D9	ELECTRICAL / BOILER	113A	RH	1	A	HM	PT		-	2 HR	-	2108	914	PT			FIRE-RATED / PDSB TO CONFIRM SCOPE
D10	CORRIDOR CLOSET	-	LHR	1	A	HM	PT		-	-	-	2819	2959	PT	1/R402		NEW DOOR AND FRAME, ADJUST EXISTING SHELVES TO ACCOMMODATE
D11	ALL GENDER WASHROOM	130	RH	1	A	HM	PT		-	-	-	2083	762	PT			
D12	FEMAL WASHROOM	129	LH	1	A	HM	PT		-	-	-	2083	762	PT			
D13	INSTRUCTOR WASHROOM	128	RH	1	A	HM	PT		-	-	-	2083	762	PT			
D14	BACKSTAGE DOOR	108	LHR	1	C	HM	PT		-	-	SG	2083	864	PT			
D15	KITCHEN	108B	LH	1	A	HM	PT		-	-	-	2083	864	PT			
D16	ORTHO. WASHROOM	127	LH	-	-	-	-		-	-	-	-	-	PT			NEW LOUVRE ONLY; PAINT
D17	GYM	108	LHR / RHR	2	B	HM	PT		1	1 HR	FR	2083	914	PT	A		FIRE-RATED
D18	GYM / WEST SIDE	108	RH (HALLWAY)	1	C	HM	PT		1	1 HR	FR	2083	864	PT	D		FIRE-RATED
D19	GYM / NORTH SIDE	108	RHR	1	C	HM	PT		1	1 HR	FR	2083	914	PT	D		FIRE-RATED
D20	GYM / STAGE LEFT	108	LHR	1	D	HM	PT		-	-	SG	2134	864	PT			
D21	GYM / BACKSTAGE DOOR	108	RHR	1	D	HM	PT		-	-	SG	2083	864	PT			
D22	GYM / STAGE RIGHT	108	LH	1	D	HM	PT		-	-	SG	2083	864	PT			
D23	GYM / KITCHEN DOOR	108B	LH	1	E	HM	PT		-	1 HR	-	2083	864	PT	D		DUTCH DOOR, REFER TO HARDWARE SCHEDULE FOR NUMBER OF HINGES
D24	BOY'S CHANGE ROOM	123	RH	1	A	HM	PT		-	-	-	2083	864	PT			
D25	BOY'S CHANGE ROOM (VESTIBULE)	123	RH	1	A	HM	PT		-	-	-	2083	864	PT			
D26	GIRL'S CHANGE ROOM	124	LH	1	A	HM	PT		-	-	-	2083	864	PT			PDSB TO CONFIRM SWING
D27	GIRL'S CHANGE ROOM (VESTIBULE)	124	LH	1	A	HM	PT		-	-	-	2083	864	PT			PDSB TO CONFIRM SWING
D28	SERVER ROOM	125	RH	1	A	HM	PT		-	-	-	2083	813	PT			
D29	MUSIC ROOM	109	RH	1	C	HM	PT		-	-	SG	2134	914	PT			
D30	STAIR TO ROOF MPH	-	RHR	1	A	HM	PT		-	1 HR	-	2108	914	PT			FIRE-RATED
D31	SEMINAR ROOM	126	LH	1	C	HM	PT		1	-	SG	2235	914	PT	B		
D32	LIBRARY	115	RHR	1	C	HM	PT		1	-	SG	2235	914	PT	C		
D33	COMPUTER ROOM	113	LH	-	-	HM	PT		-	-	-	-	-	PT			PAINT FRAME AND NEW INFILL GLASS
D34	LIBRARY OFFICE	115A	LH	1	C	HM	PT		-	-	SG	2108	914	PT			PAINT ALL FRAMES, NEW DOOR AND TRANSOM PANEL
D35	GYM STORAGE	110A	LHR / RHR	2	A	HM	PT		-	-	-	2108	914	PT			DOUBLE DOORS
D36	GYM (RIGHT SIDE)	110	LHR / RHR	2	B	HM	PT		-	1 HR	SG	2083	914	PT	A		FIRE-RATED
D37	GYM (LEFT SIDE)	110	LHR / RHR	2	B	HM	PT		-	1 HR	SG	2083	914	PT	A	NEW LIGHTS	FIRE-RATED
D38	LIBRARY (NORTH SIDE)	115	LHR	1	C	HM	PT		-	-	SG	2134	914	PT			
D39	STAIR F	175	LH / RH	2	B	HM	PT		1	1 HR	FR	2108	940	PT	A		FIRE-RATED
D40	STORAGE ROOM	118B	RH	1	A	HM	PT		-	-	-	2108	914	PT			
D41	ART ROOM (RIGHT SIDE)	118	RHR	1	C	HM	PT		-	-	SG	2134	914	PT			
D42	STORAGE ROOM	118A	LH	1	A	HM	PT		-	-	SG	2134	914	PT			
D43	ART ROOM (LEFT SIDE)	118	LHR	1	C	HM	PT		-	-	SG	2134	914	PT			
D44	TECH. AND SCIENCE ROOM	116	RHR	1	C	HM	PT		-	-	SG	2134	914	PT			
D45	LIBRARY (EAST SIDE)	115	LHR	1	C	HM	PT		-	-	SG	2108	914	PT			DOUBLE DOOR, FIXED MULLION, ADO, RE/RE BY CONTRACTOR
D46	STAFF ROOM	114	LH	1	C	HM	PT		-	-	SG	2134	914	PT			PDSB TO CONFIRM DOOR TYPE
D47	STAIR D	184	LH / RH	2	B	HM	PT		1	1 HR	FR	2235	914	PT	A		FIRE-RATED
D47A	COMPUTER LAB	-	RH	1	A	HM	PT		-	-	SG	2057	864	PT			
D48	GIRL'S WASHROOM (VESTIBULE)	120	RH	1	A	HM	PT		-	-	-	2057	864	PT			
D49	GIRL'S WASHROOM	120	LH	1	A	HM	PT		-	-	-	2083	864	PT			
D50	GIRL'S WASHROOM (TO CHANGE ROOM)	120	LHR	1	A	HM	PT		-	-	-	2083	864	PT			
D51	CUSTODIAN CLOSET	121B	RHR	1	A	HM	PT		-	-	-	2057	864	PT			
D52	STORAGE ROOM	121A	LHR	1	A	HM	PT		-	-	-	2057	864	PT			
D53	BOY'S WASHROOM	121	RH	1	A	HM	PT		-	-	-	2083	864	PT			
D54	BOY'S WASHROOM (VESTIBULE)	121	LH	1	A	HM	PT		-	-	-	2057	864	PT			
D55	BOY'S WASHROOM (TO CHANGE ROOM)	121	RHR	1	A	HM	PT		-	-	-	2083	864	PT			
D56	CLASSROOM	111	RHR	1	C	HM	PT		-	-	SG	2057	864	PT			
D57	STAIR E	183	LH / RH	2	B	HM	PT		1	1 HR	FR	2134	914	PT	D		FIRE-RATED
D58	MAIN FOYER DOOR HALLWAY	-	LHR / RHR	2	D	HM	PT		-	-	SG	2134	914	PT			PDSB TO CONFIRM IF FIRE-RATED
D59	RECEPTION / GENERAL OFFICE	122	RHR	1	C	HM	PT		-	-	SG	2057	914	PT	F		ADO, RE/RE BY CONTRACTOR

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Project No. 23-0485

Professional Seal

No.	Issue Description	YYYY-MM-DD
1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

INTERIOR DOOR SCHEDULE

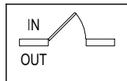
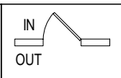
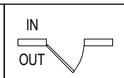
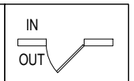
Drawing Number

R202

SECOND FLOOR INTERIOR DOOR SCHEDULE

IDENTIFICATION			DOOR											FRAME			
DOOR ID	ROOM NAME	ROOM NUMBER	SWING	NUMBER OF DOORS	DOOR ELEVATION TYPE	MATERIAL	FINISH	HIGH TRAFFIC	NEW FRAME	FIRE RATING (HR)	GLAZING TYPE	HEIGHT (mm)	WIDTH (mm)	FRAME FINISH	FRAME TYPE	HARDWARE	NOTES
D60	STAIR E	-	LHR/RHR	2	B	HM	PT		1	1 HR	FR	2134	914	PT	A		FIRE-RATED
D61	SCIENCE ROOM	200	LHR	1	C	HM	PT		-	-	SG	2108	864	PT			
D62	WORK ROOM (RIGHT SIDE)	200A	RHR	1	C	HM	PT		-	-	SG	2108	864	PT			
D63	WORK ROOM (LEFT SIDE)	200A	LHR	1	C	HM	PT		-	-	SG	2108	864	PT			
D64	SCIENCE ROOM	200	LHR	1	C	HM	PT		-	-	SG	2108	864	PT			
D65	CLASSROOM	201	LH	1	C	HM	PT		-	-	SG	2108	864	PT			
D66	STORAGE	201A	RH	1	A	HM	PT		-	-	-	2083	864	PT			
D67	CUSTODIAN CLOSET	201B	RH	1	A	HM	PT		-	-	-	2108	864	PT			
D68	CLASSROOM	202	RHR	1	C	HM	PT		-	-	SG	2108	864	PT			
D69	CLASSROOM	203	RH	1	C	HM	PT		-	-	SG	2108	864	PT			
D70	CLASSROOM	204	LHR	1	C	HM	PT		-	-	SG	2108	864	PT			
D71	CLASSROOM	205	RH	1	C	HM	PT		-	-	SG	2108	864	PT			
D72	BOY'S WASHROOM	205A	RH	1	A	HM	PT		-	-	-	2134	914	PT			
D73	BOY'S WASHROOM (VESTIBULE)	205A	LH	1	A	HM	PT		-	-	-	2134	914	PT			
D74	MEN'S WASHROOM	205B	LH	1	A	HM	PT		-	-	-	2134	813	PT			
D75	STAIR D	-	LHR/RHR	2	B	HM	PT		1	1 HR	FR	2134	914	PT	A		FIRE-RATED
D76	CUSTODIAN CLOSET	205C	RHR	1	A	HM	PT		-	-	-	2134	914	PT			
D77	WOMEN'S WASHROOM	205D	RH	1	A	HM	PT		-	-	-	2134	813	PT			
D78	GIRL'S WASHROOM	205E	LH	1	A	HM	PT		-	-	-	2134	914	PT			
D79	GIRL'S WASHROOM (VESTIBULE)	205E	RH	1	A	HM	PT		-	-	-	2134	914	PT			
D80	CLASSROOM	206	RH	1	C	HM	PT		-	-	SG	2134	914	PT			
D81	CLASSROOM	207	LH	1	C	HM	PT		-	-	SG	2134	914	PT			
D82	CLASSROOM	208	LHR	1	C	HM	PT		-	-	SG	2134	914	PT			
D83	CLASSROOM	209	RH	1	C	HM	PT		-	-	SG	2134	914	PT			
D84	CLASSROOM	210	RHR	1	C	HM	PT		-	-	SG	2108	914	PT			
D85	CLASSROOM	211	LH	1	C	HM	PT		-	-	SG	2134	914	PT			
D86	CLASSROOM	212	RHR	1	C	HM	PT		-	-	SG	2134	914	PT			
D87	STORAGE ROOM	213	RH	1	A	HM	PT		-	-	-	2134	914	PT			
D88	STAIR F	-	LH / RH	2	B	HM	PT		1	1 HR	FR	2134	914	PT	A		FIRE-RATED
D89	ELEVATOR DOOR	214A	LH / RH	2	C	HM	PT		1	-	SG						ADO, RE/RE BY CONTRACTOR

HM - HOLLOW METAL
PT - PAINTED
RH - RIGHT HAND
RHR - RIGHT HAND REVERSE
LH - LEFT HAND
LHR - LEFT HAND REVERSE

			
LEFT HAND (LH)	RIGHT HAND (RH)	LEFT HAND REVERSE (LHR)	RIGHT HAND REVERSE (RHR)

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Project No. 23-0485

Professional Seal

No.	Issue Description	YYYY-MM-DD
1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

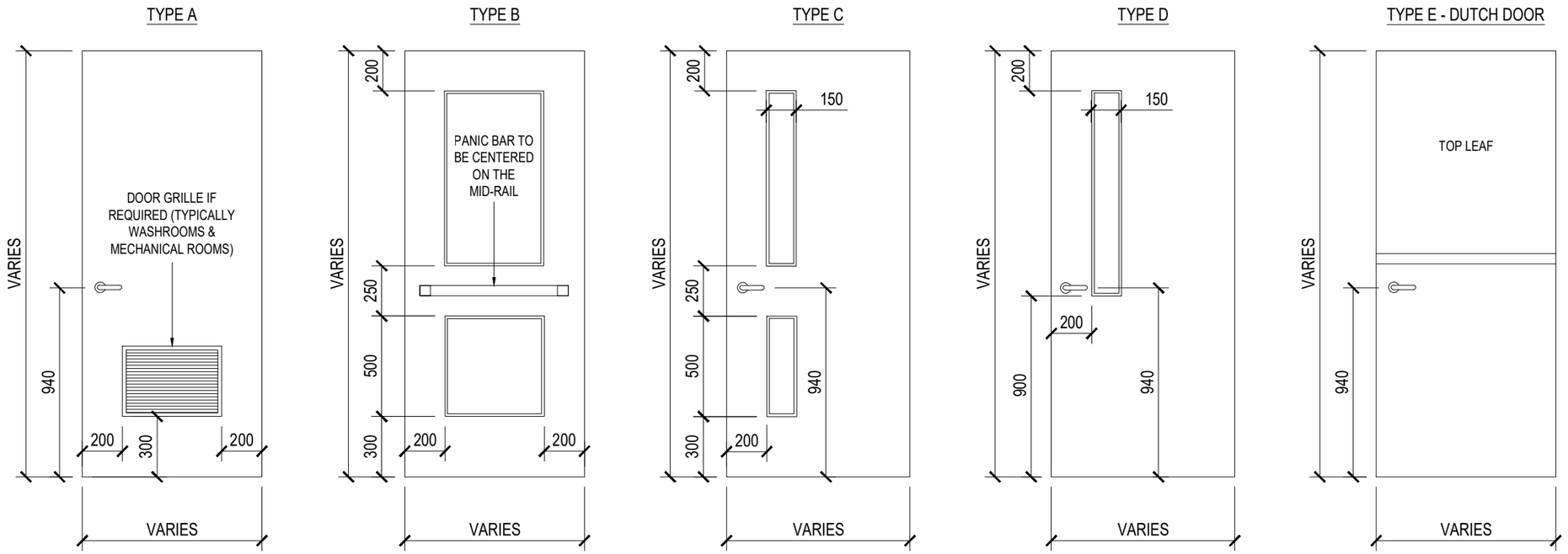
INTERIOR DOOR SCHEDULE

Drawing Number

R203

2024-01-18,2:23:33 PM

Original drawing sheet is 11 x 17.



1 / R400 TYPICAL DOOR ELEVATIONS

SCALE: NTS

DOOR SCHEDULE LEGEND AND TYPICAL DIMENSIONS		
TYPE	WIDTH (mm)	REMARKS
TYPE A	950	USE AT WASHROOMS AND CHANGEROOMS
	1000	USE AT OUTSIDE STORAGE
	1100	USE AT ELECTRICAL ROOMS, AND DOORS WITH AUTOMATIC HARDWARE
	1200	USE AT "CORRIDOR TO CUSTODIAN STORAGE," "CUSTODIAL STORAGE TO EXTERIOR STORAGE," AND WASHROOMS
TYPE B	950	USE AT GENERAL OFFICE
	1000	USE AT CORRIDORS, STAIRWELLS, AND LIBRARY
	1100	USE AT ALL DOORS WITH AUTOMATIC HARDWARE INCLUDING FRONT ENTRANCE
TYPE C	950	UE AT TEACHER AND STAFF WORKROOMS, CUSTODIAL OFFICE, CLASSROOMS, AND ADMINISTRATIVE AREAS
	1000	USE AT GYMNASIUM
	1100	USE AT ALL DOORS WITH AUTOMATIC HARDWARE
TYPE D	SAME AS TYPE C	

GENERAL NOTES

1. REFER TO HOLLOW METAL, GLAZING, DOOR SCHEDULE, AND HARDWARE SPECIFICATIONS FOR DOOR CONSTRUCTION MATERIALS AND DIMENSIONS.
2. DOOR OPENING DEVICES TO BE OPERABLE WITH A CLOSED FIST AND MOUNTED BETWEEN 900mm AND 1100mm ABOVE FINISHED FLOOR (OBC 3.8.3.3(3)).
3. DOOR RELEASE HARDWARE TO BE MOUNTED MAX. 1200mm ABOVE FINISHED FLOOR (OBC 3.3.1.12(5)).
4. WHERE A VISION PANEL IS PROVIDED, IT MUST BE MIN. 75mm WIDE (3.3.1.12(14)).
5. WHERE A VISION PANEL IS PROVIDED, THE BOTTOM OF THE PANEL MUST BE MAX. 900mm ABOVE FINISHED FLOOR LEVEL (OBC 3.8.3.3(14)).
6. WHERE A VISION PANEL IS PROVIDED, THE EDGE OF THE PANEL CLOSEST TO THE LATCH IS NOT MORE THAN 250mm FROM THE LATCH SIDE OF THE DOOR (OBC 3.8.3.3(14)).

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Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

TYPICAL DOOR ELEVATIONS

Drawing Number

R400

2024-01-18,2:22:44 PM

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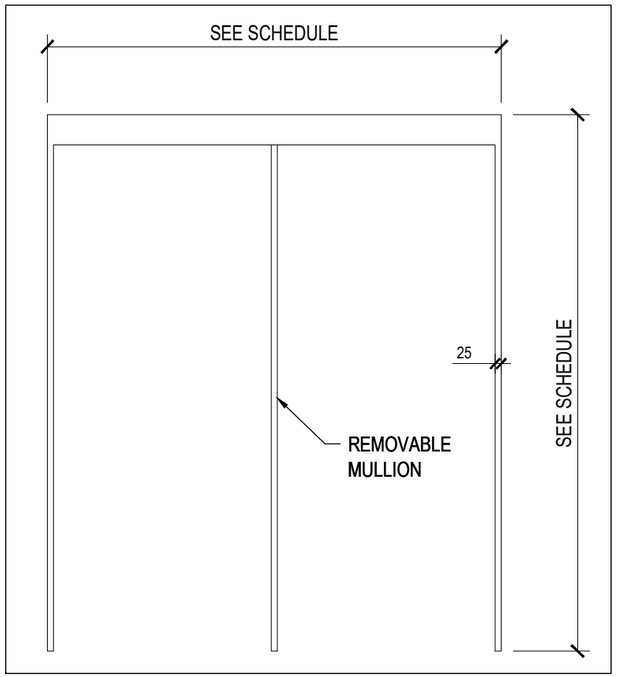
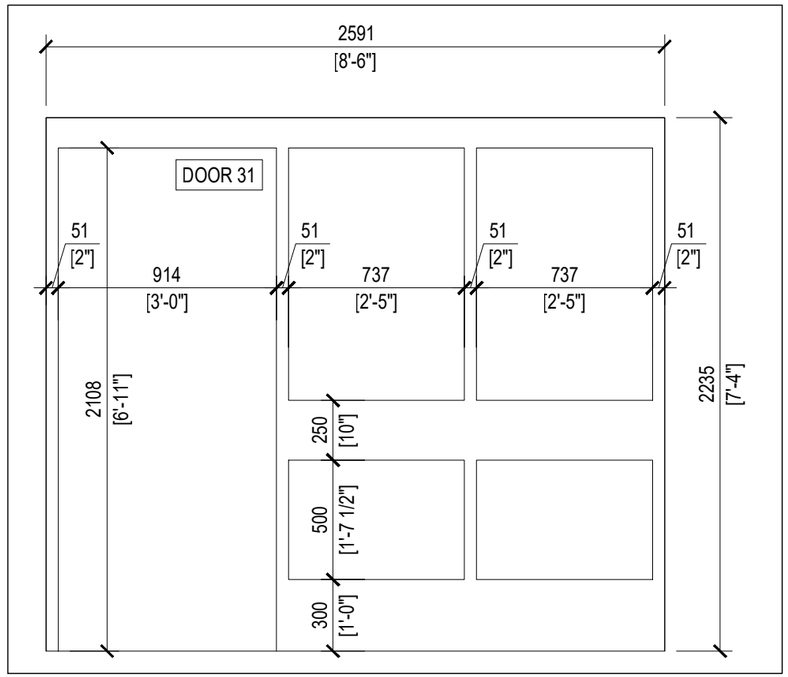
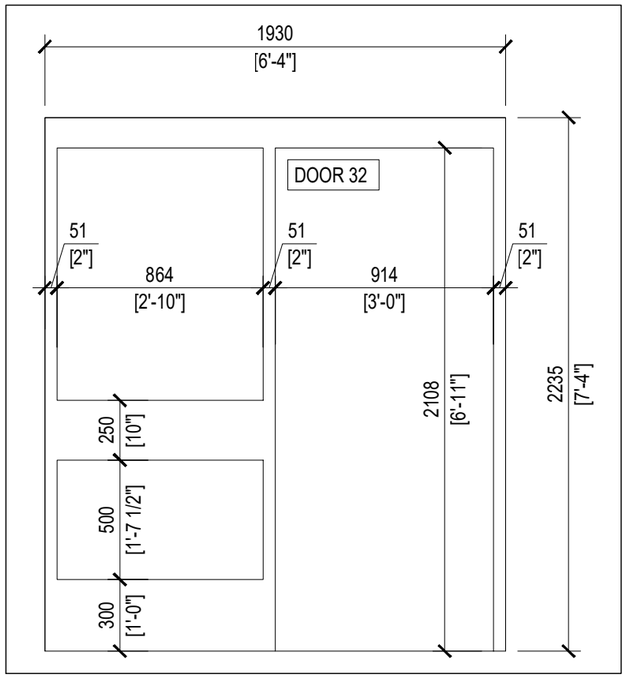


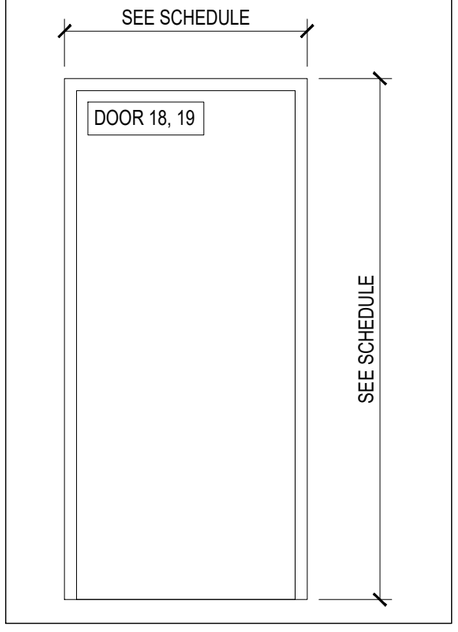
1 / R401 TYPE A - FIRE RATED DOUBLE DOOR AND FRAME
SCALE: 1:25



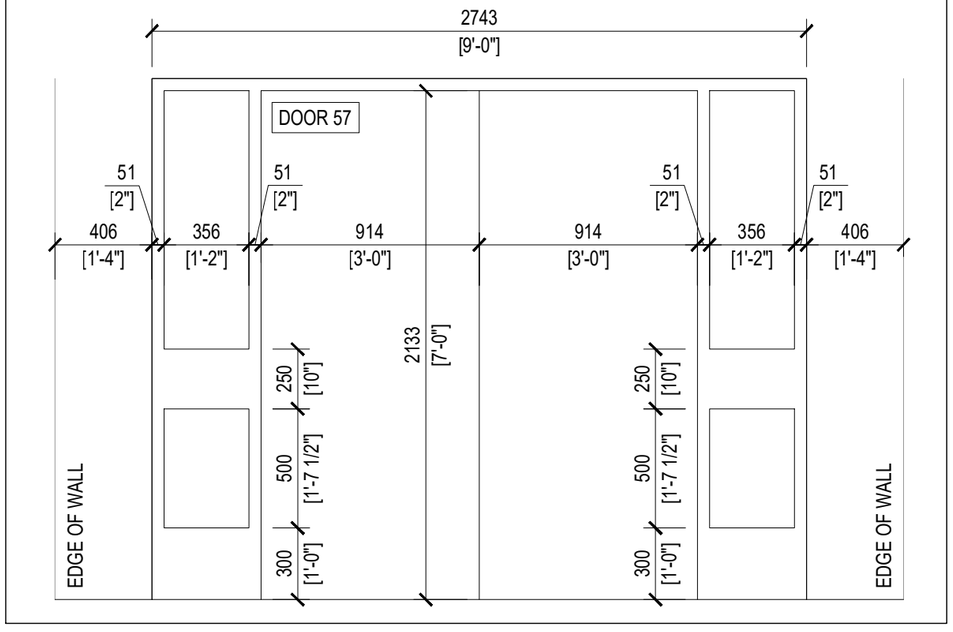
2 / R401 TYPE B - SINGLE DOOR AND DOUBLE WINDOW FRAME
SCALE: 1:25



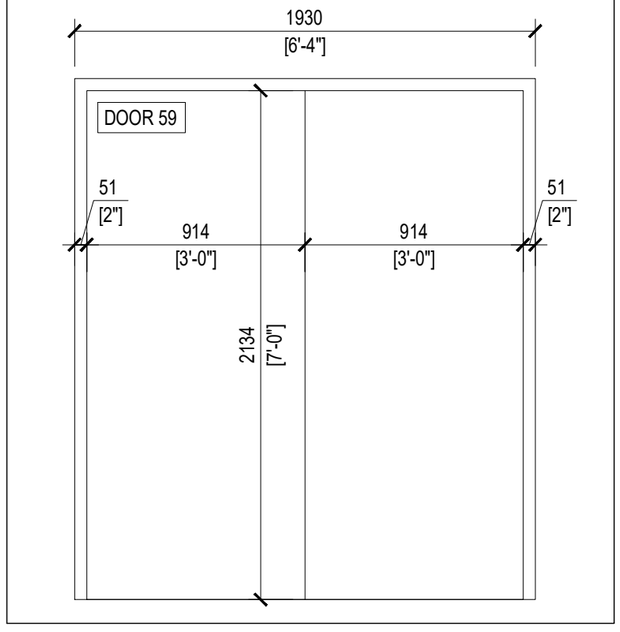
3 / R401 TYPE C - SINGLE DOOR AND WINDOW FRAME
SCALE: 1:25



4 / R401 TYPE D - FIRE-RATED DOOR
SCALE: 1:25



5 / R401 TYPE E - FIRE-RATED DOUBLE DOOR WITH SIDELITES
SCALE: 1:25



6 / R401 TYPE F - DOUBLE DOOR AND FRAME
SCALE: 1:25

2024-01-18,2:23:29 PM

Original drawing sheet is 11 x 17.

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Project No. 23-0485

Professional Seal

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1	ISSUED FOR CLIENT REVIEW	2023-08-16
2	ISSUED FOR CLIENT REVIEW	2023-12-08

Project Title:

CALEDON CENTRAL PUBLIC SCHOOL

INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

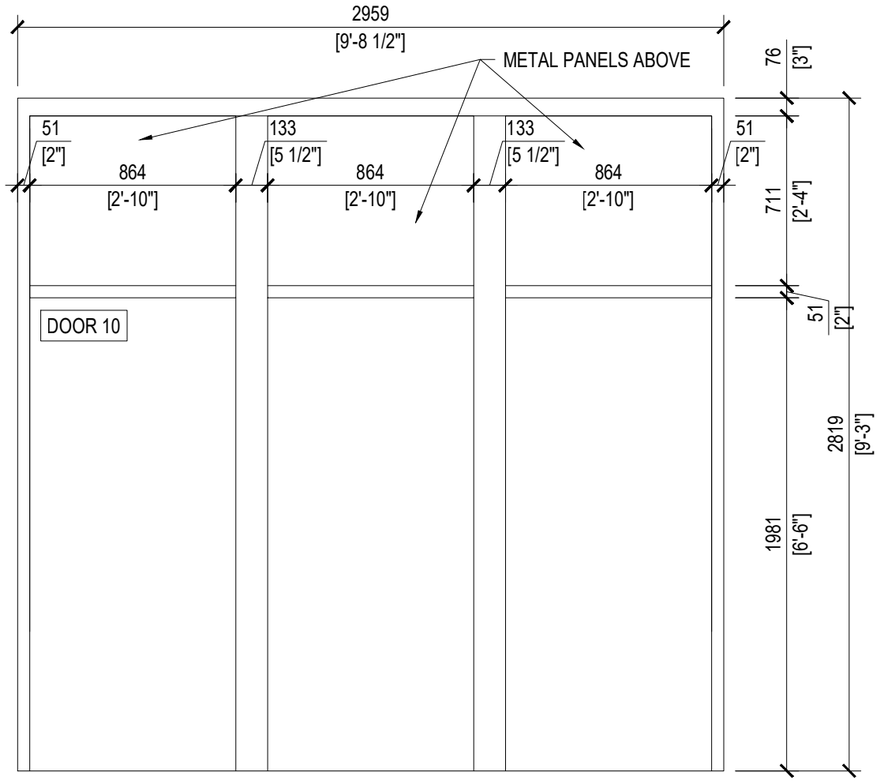
Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

TYPICAL FRAME ELEVATIONS

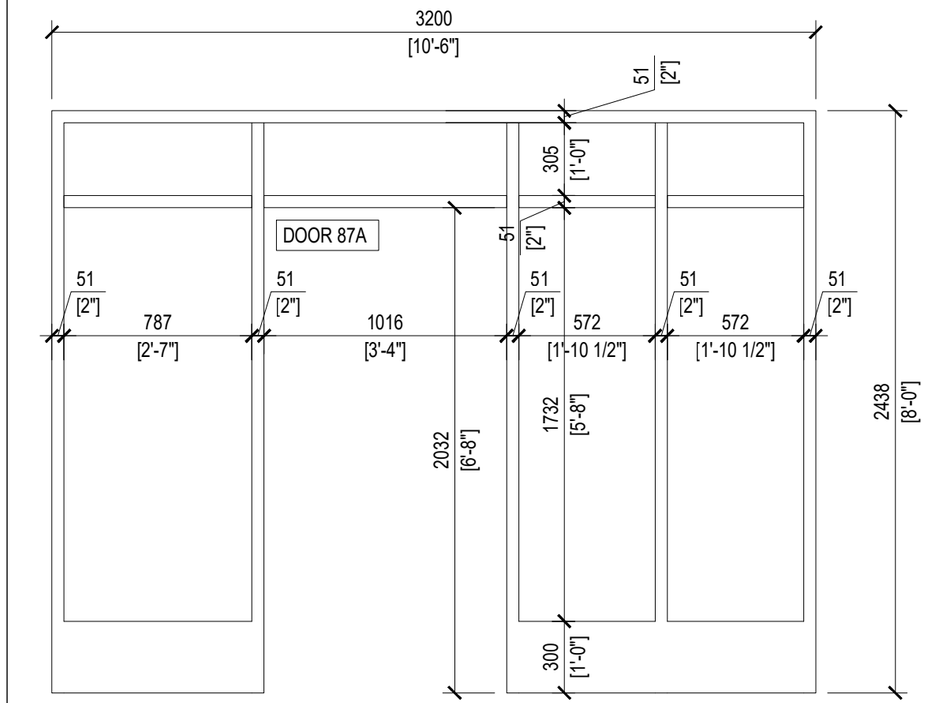
Drawing Number

R401



1 / R402 HALLWAY CLOSET DOOR FRAME

SCALE: 1:25



2 / R402 ELEVATOR VESTIBULE DOOR FRAME

SCALE: 1:25

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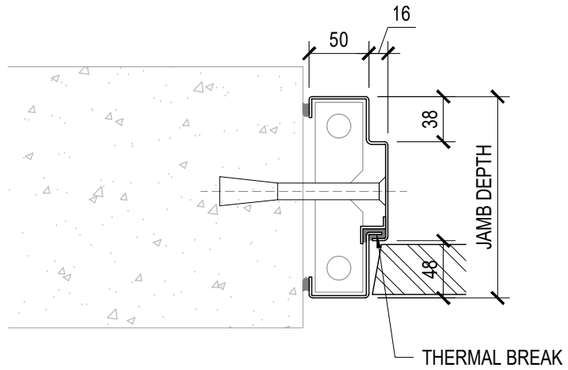
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

TYPICAL FRAME ELEVATIONS

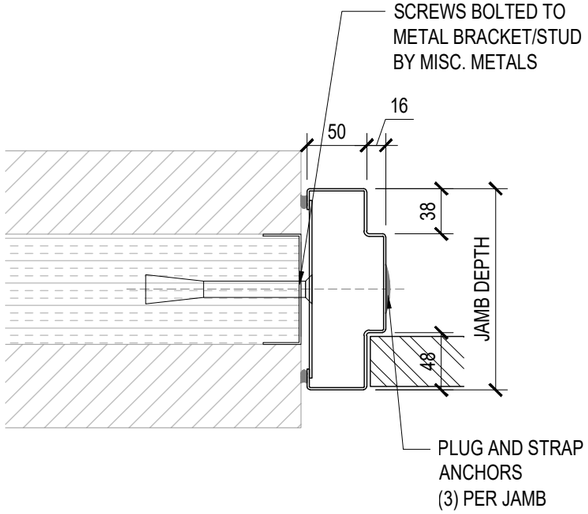
Drawing Number

R402



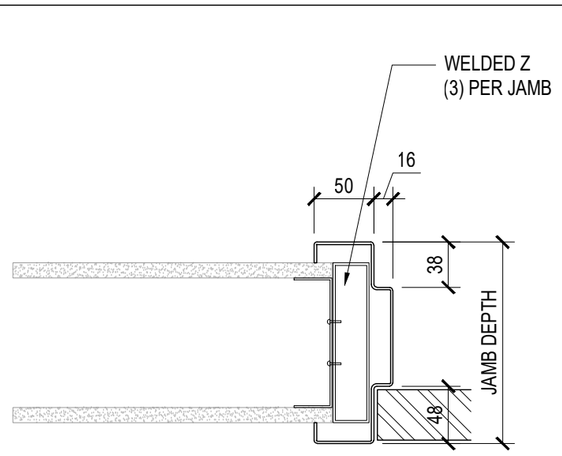
1 / R500 A - JAMB PROFILE - THERMALLY BROKEN EMA ANCHOR

SCALE: 1:5



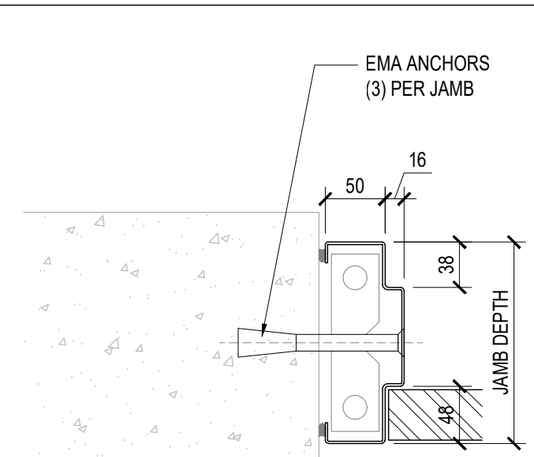
2 / R500 B - JAMB PROFILE - PLUG AND STRAP ANCHOR

SCALE: 1:5



3 / R500 C - JAMB PROFILE - WELDED Z ANCHOR

SCALE: 1:5



4 / R500 D - JAMB PROFILE - EXISTING MASONRY ANCHOR (EMA)

SCALE: 1:5

2024-01-18,2:23:20 PM

Original drawing sheet is 11 x 17.

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Project Title:

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INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

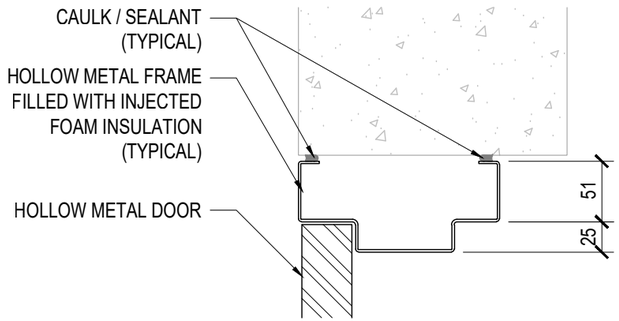
Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

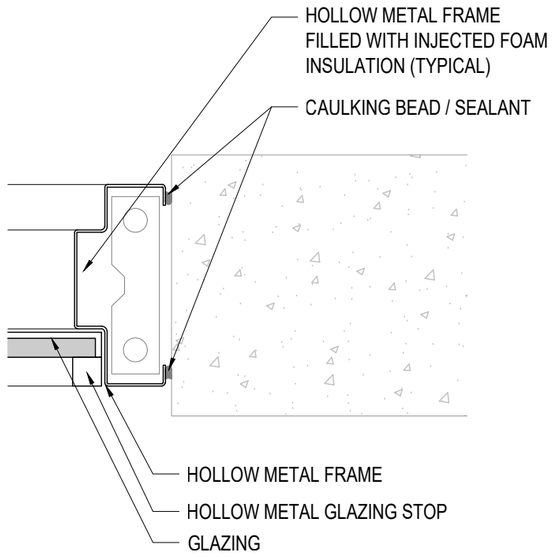
TYPICAL DOOR JAMB ANCHOR DETAILS

Drawing Number

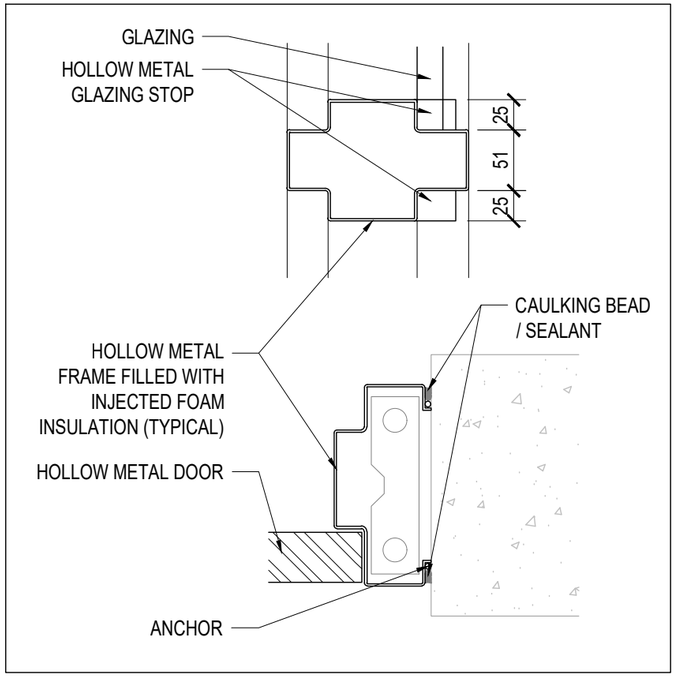
R500



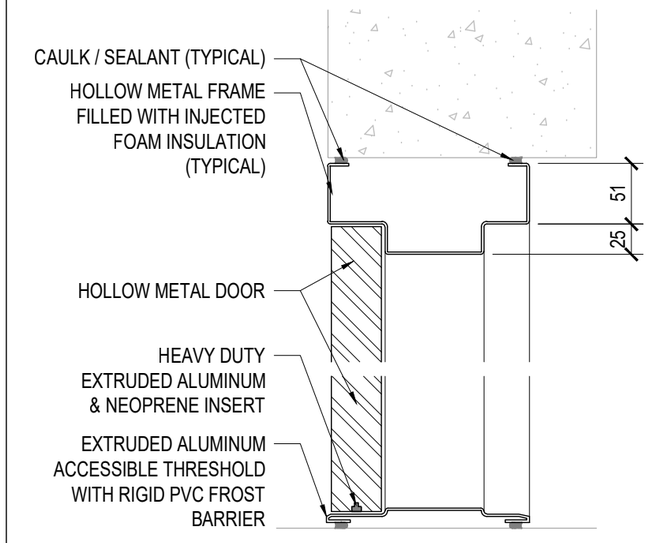
1 R501 TYPICAL DOOR HEADER DETAIL
SCALE: 1:5



2 R501 TYPICAL GLAZING PANEL AT DOOR JAMB
SCALE: 1:5



3 R501 TYPICAL MULLION DETAIL
SCALE: 1:5



4 R501 TYPICAL DOOR HEADER AND THRESHOLD DETAIL
SCALE: 1:5

2024-01-18,2:22:50 PM

Original drawing sheet is 11 x 17.

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1	ISSUED FOR CLIENT REVIEW	2023-08-16
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Project Title:

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INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

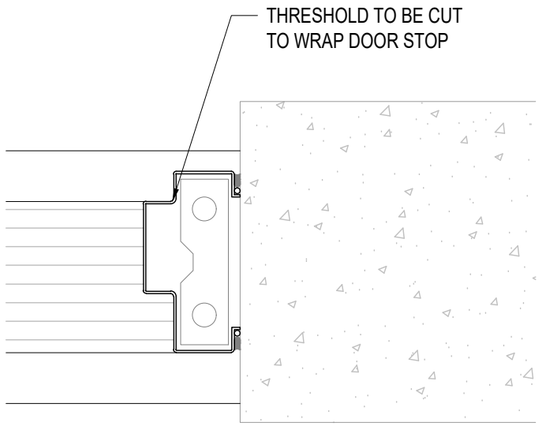
Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

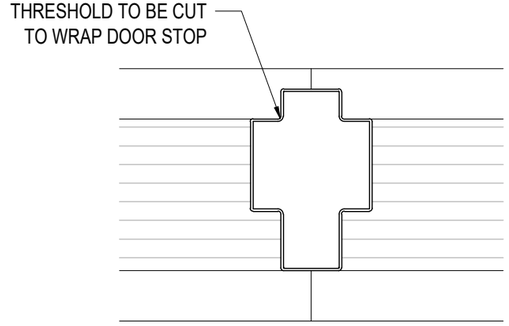
TYPICAL DOOR FRAME DETAILS

Drawing Number

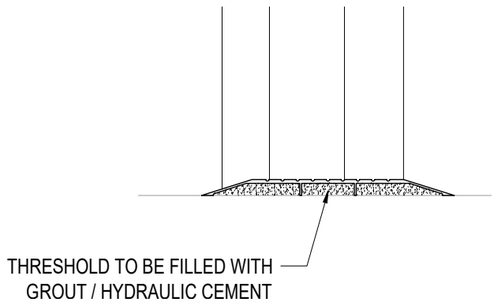
R501



1 R502 THRESHOLD AT JAMB DETAIL
SCALE: 1:5



2 R502 THRESHOLD AT MULLION DETAIL
SCALE: 1:5



3 R502 THRESHOLD SECTION DETAIL
SCALE: 1:5

2024-01-18,2:22:55 PM

Original drawing sheet is 11 x 17.

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INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

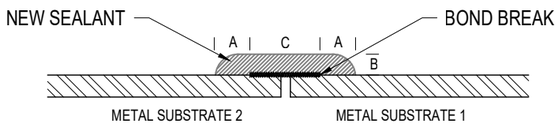
Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

TYPICAL DOOR THRESHOLD DETAILS

Drawing Number

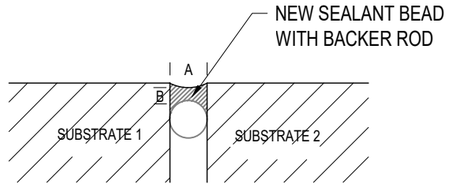
R502



NOTES:

1. DIMENSIONS A AND B MUST BE MINIMUM $\frac{1}{4}$" (6mm)
2. DIMENSION C MUST BE MIN.$\frac{1}{2}$" (12mm) CENTERED ON JOINT
3. CLEAN SUBSTRATES WITH SOLVENT WIPE (2 CLOTH METHOD)
4. PRIME PER MANUFACTURER'S REQUIREMENTS

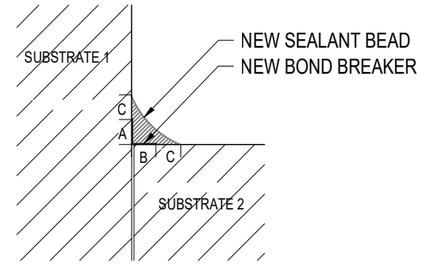
1 R503 TYPICAL METAL-TO-METAL SEALANT JOINT
SCALE: 1:1



NOTES:

1. DIMENSIONS A AND B MUST BE AT LEAST $\frac{1}{4}$" (6mm)
2. RATIO OF A:B MUST BE 2:1 MINIMUM

2 R503 TYPICAL SEAL BUTT JOINT
SCALE: 1:1



NOTES:

1. DIMENSIONS A, B, AND C MUST BE AT LEAST $\frac{1}{4}$" (6mm)

3 R503 TYPICAL SEALANT FILLET BEAD
SCALE: 1:1

2024-01-18,2:23:15 PM

Original drawing sheet is 11 x 17.

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INTERIOR DOOR REPLACEMENT

18357 KENNEDY ROAD, CALEDON, ON.

Designed by:	Z.D. / S.C.	Scale:	AS NOTED
Drawn by:	S.C.	Date:	2023-07-14

Drawing Title

TYPICAL SEALANT DETAILS

Drawing Number

R503