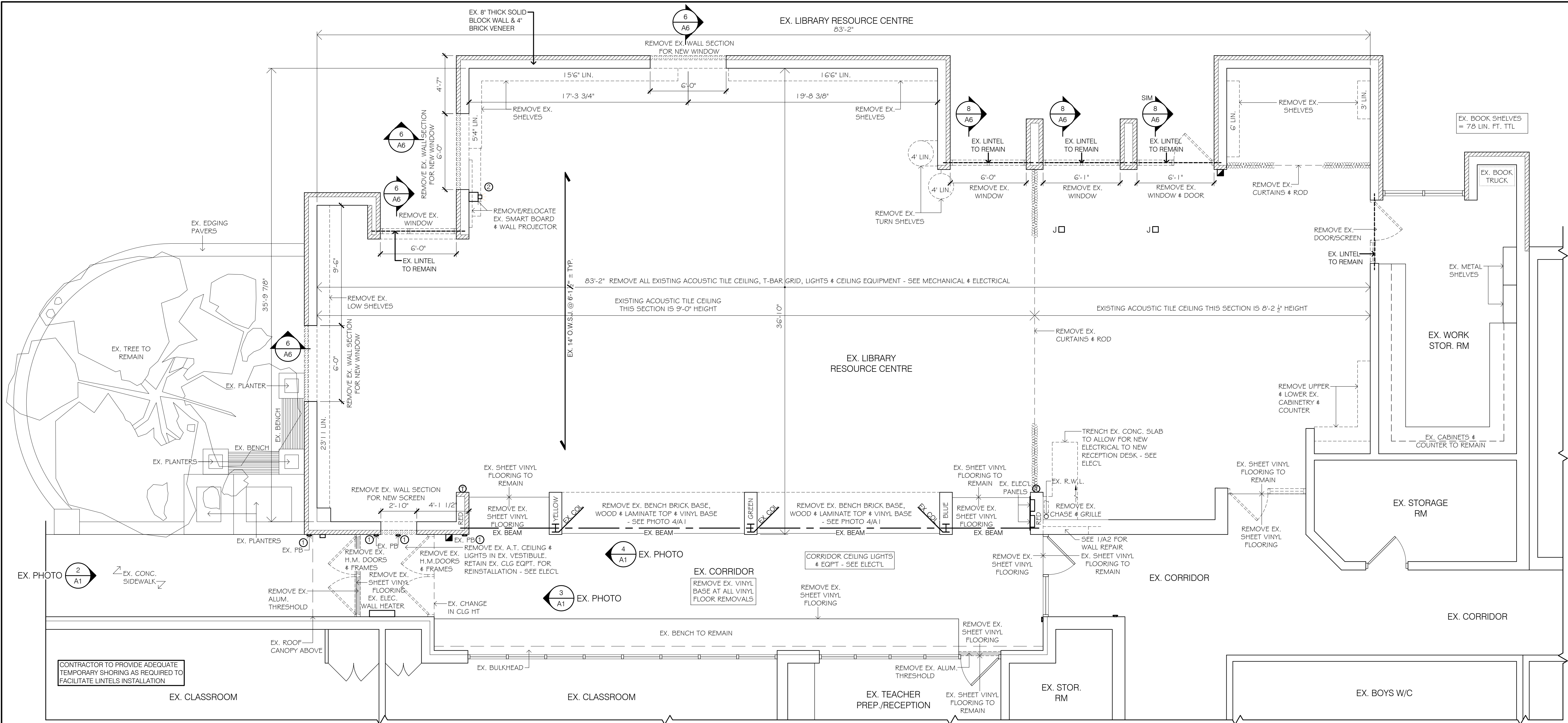
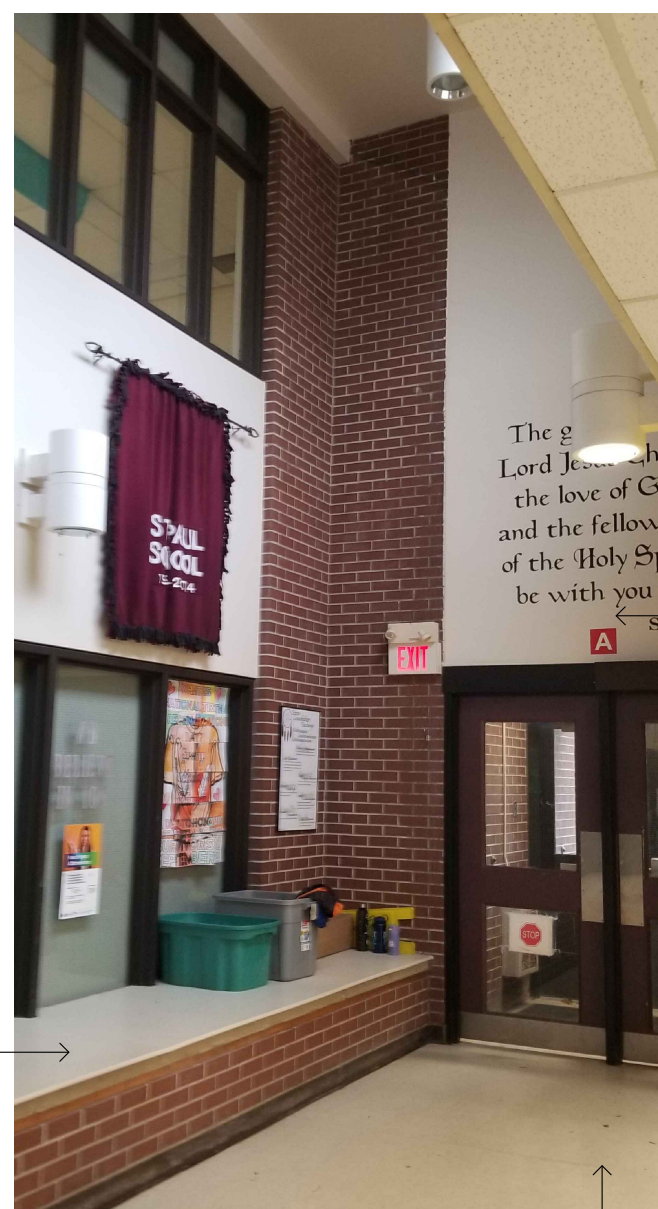




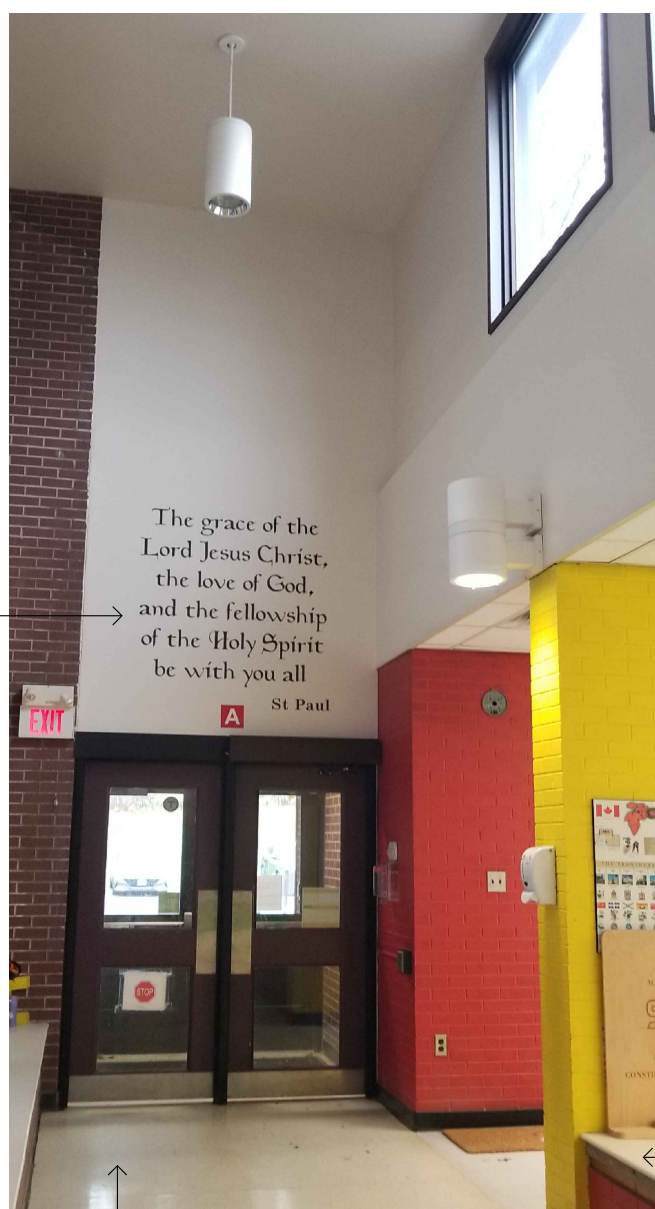
1 MAIN FLOOR PLAN - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 PHOTO
SCALE: N.T.S.
EX. ENTRY DOORS TO BE REMOVED & REPLACED WITH BARRIER FREE DOORS/HARDWARE

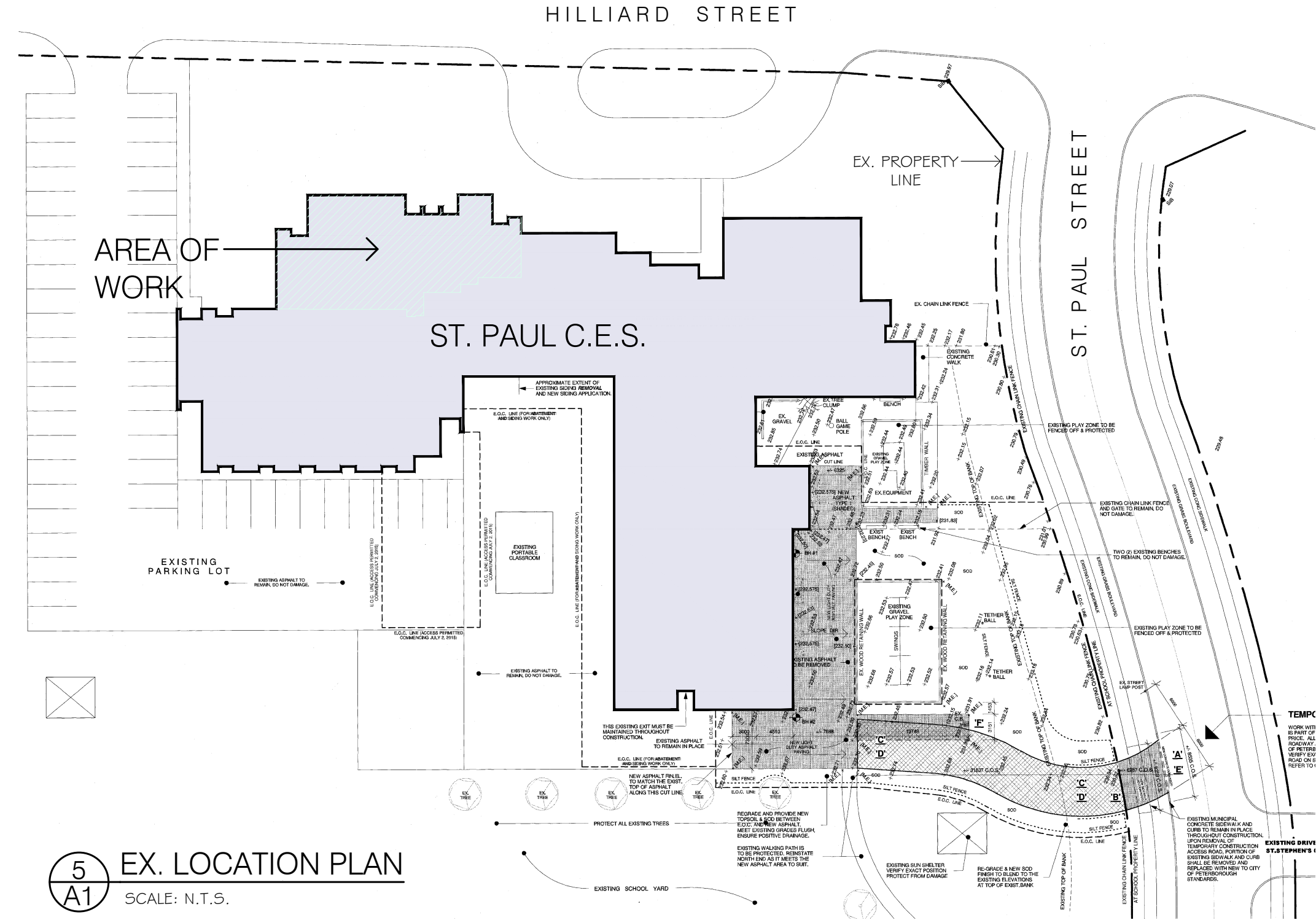


3 PHOTO
SCALE: N.T.S.
EX. BENCH
EX. SHEET VINYL FLOORING TO BE REMOVED



4 PHOTO
SCALE: N.T.S.
EX. BENCH CONSTRUCTION SAME AS PER PHOTO 3/A1

- ABBREVIATIONS
- BF = BARRIER FREE
 - CO = COUCH (3 SEAT)
 - CR = CREDENZA
 - CT = COFFEE TABLE
 - DR = NEW DOOR
 - DSCR = NEW DOOR & SCREEN
 - ELEC = ELECTRICAL
 - F = NEW FILE
 - GALV = GALVANIZED
 - H.M. = HOLLOW METAL
 - MB = NEW MOVABLE BOOK SHELVES
 - MECH = MECHANICAL
 - MC = NEW MAKER CABINET
 - PA = PUBLIC ANNOUNCEMENT SYSTEM
 - PB = PUSH BUTTON
 - PLAM = PLASTIC LAMINATE
 - PLY = PLYWOOD
 - PRIM. TB = EX. PRIMARY TABLE
 - PT = PAINT
 - PTN = PARTITION
 - SCR = NEW SCREEN
 - TB = TABLE
 - W = NEW WINDOW



5 EX. LOCATION PLAN
SCALE: N.T.S.

WILCOX ARCHITECTS INC.
74 LINDSAY ST. SOUTH
LINDSAY, ONTARIO
PHONE: 705-328-0175
wilcox.off@gmail.com

PROJECT NORTH

CONSULTANTS:
STRUCTURAL ENGINEERS
AMR ENGINEERING LTD.
MECHANICAL ENGINEERS
NOVADYNE LTD
ELECTRICAL ENGINEERS
KIRKLAND ENGINEERING LTD

NOTES:

ALL REMOVED CABINETS, FIXTURES, EQPT & HARDWARE TO BE RETURNED TO OWNER U.O.N.

REMOVE VINYL BASE FROM ALL ROOMS TO RECEIVE NEW FLOORING

REMOVE ALL WALL BOARDS & RETAIN FOR REINSTALLATION (LOCATIONS TO BE CONFIRMED)

DESIGN LOADS:
Dead Load = 25 psf (1.2 kPa)
Snow Load = 42 psf (2 kPa) + Snow Drift
Total Load = 67 psf + Snow Drift

TYP. NOTES

1 REMOVE EX. PB DOOR OPERATOR AS REQ'D & RETAIN FOR REINSTALLATION - SEE SPECS FOR DETAILS

2 REMOVE EX. PROJECTOR & SMART TV & RETAIN FOR REINSTALLATION

FOR DESIGN OF STRUCTURAL COMPONENTS ONLY
DATE: JANUARY 18, 2026
PROJECT No.: 25-2332
PROJECT:
ST. PAUL CATHOLIC
ELEMENTARY SCHOOL OFFICE
& LIBRARY RENOVATION
PETERBOROUGH, ONTARIO

AMR ENGINEERING LTD.
920 ALNESS STREET, SUITE 205
TORONTO, ONTARIO M5J 2H7
TEL: 416-951-1611
FAX: 416-477-0426

FOR DESIGN OF STEEL LINTELS FOR NEW OPENINGS ONLY

FOR PERMIT & TENDER	FEB 5, 2026
ISSUED:	DATE:

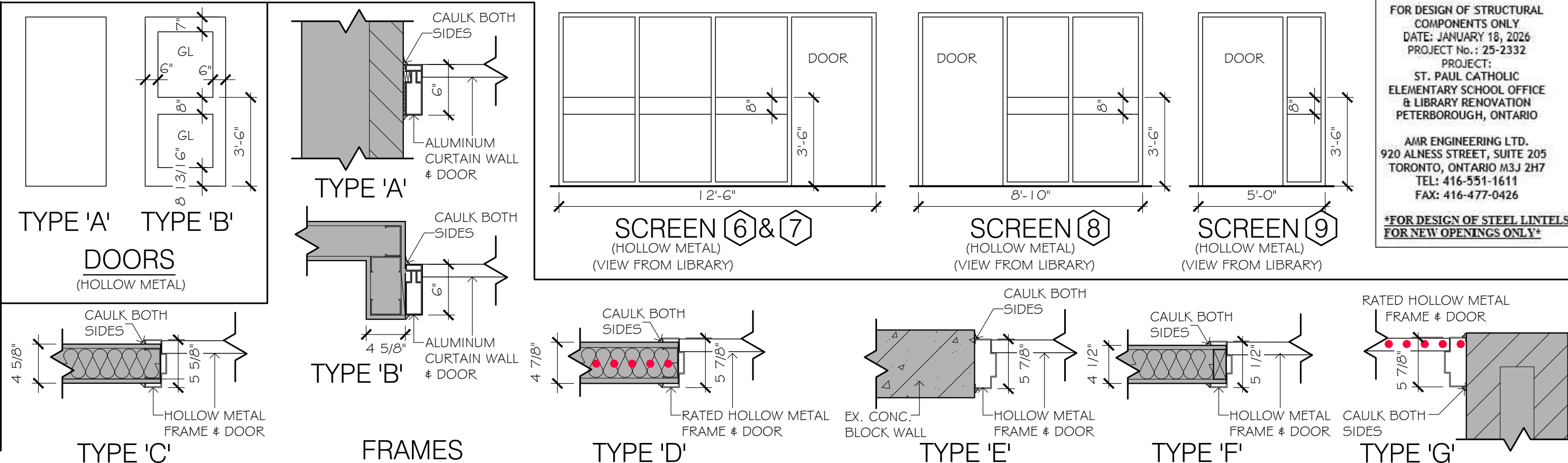
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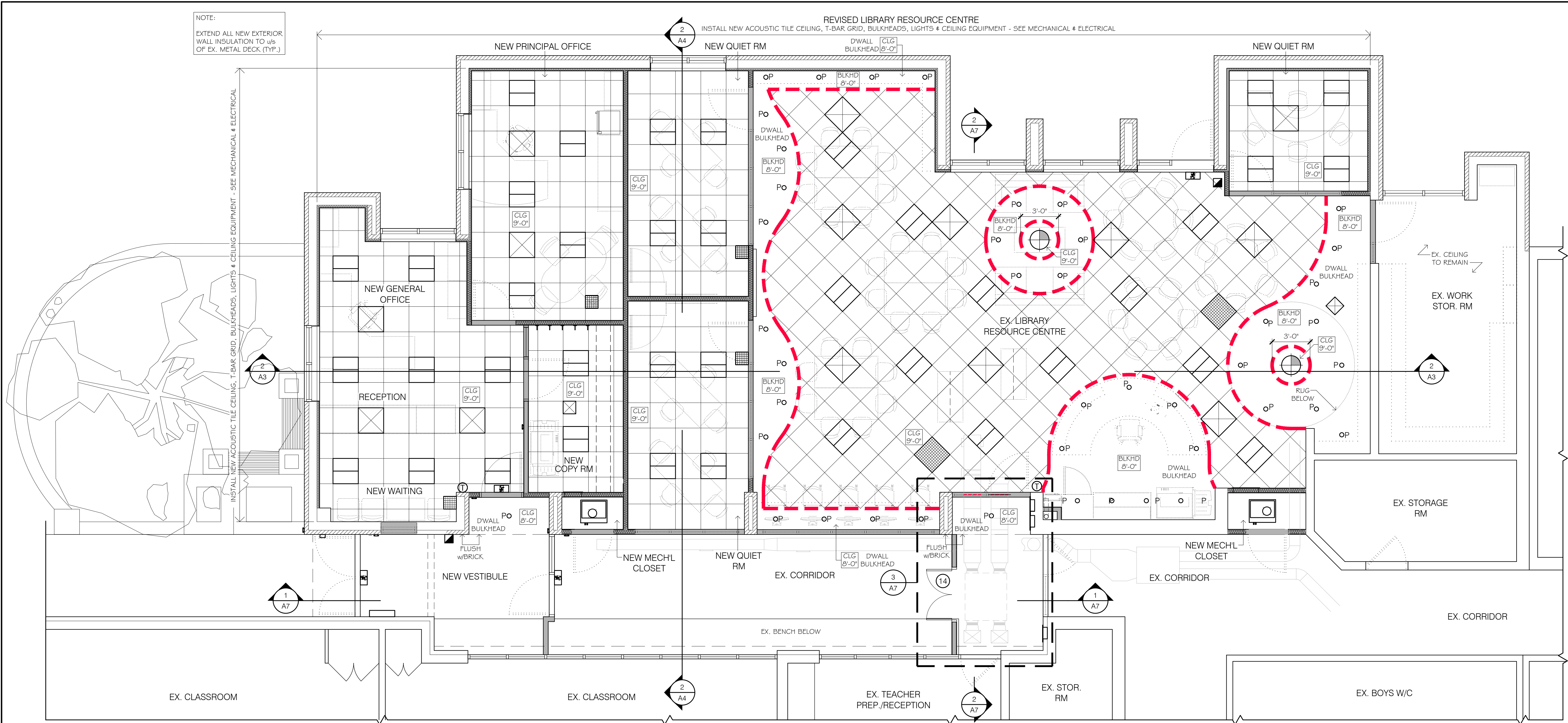
PROJECT:
**ST. PAUL CES
OFFICE & LIBRARY
RENOVATION**

ADDRESS: 1101 HILLIARD STREET
PETERBOROUGH, ON K9H 5S2

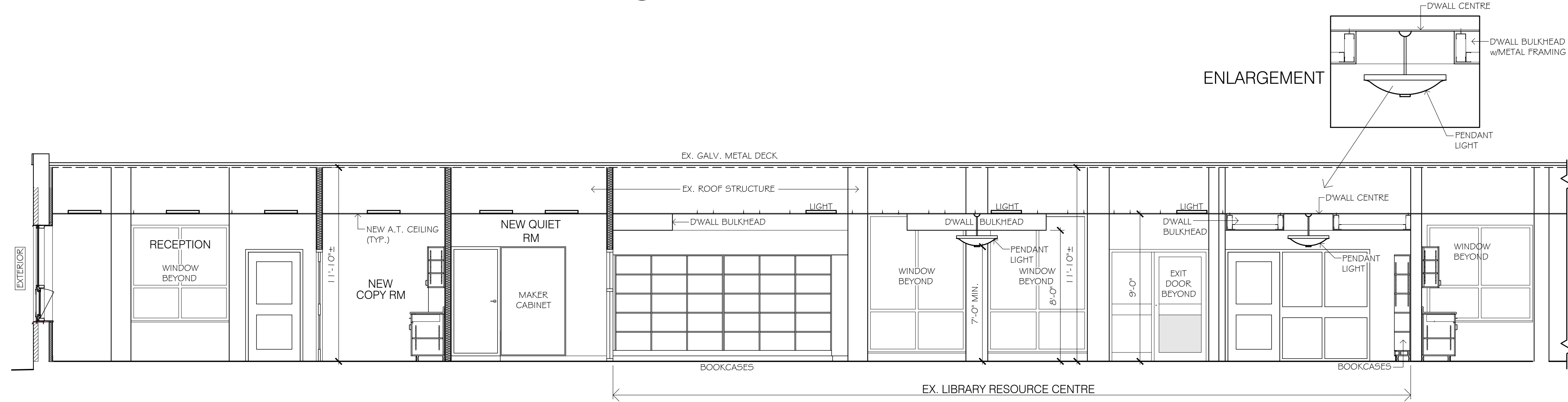
DRAWING TITLE:
**SITE LOCATION PLAN
MAIN FLOOR PLAN
- DEMOLITION WORK**

SCALE: AS NOTED	DRAWING NUMBER: A1 OF 7 25041
DRAWN BY: SV	
CHECKED BY: GW	

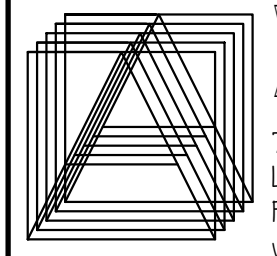




1
A3
REFLECTED CEILING PLAN - NEW WORK
SCALE: 1/4" = 1'-0"

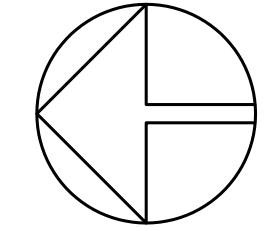


2
A3
BUILDING SECTION - NEW WORK
SCALE: 1/4" = 1'-0"



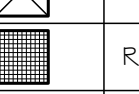
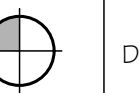
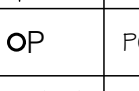
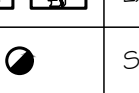
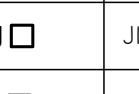
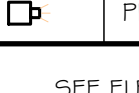
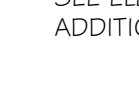
WILCOX ARCHITECTS INC.
74 LINDSAY ST. SOUTH
LINDSAY, ONTARIO
PHONE: 705-328-0175
wilcox.off@gmail.com



PROJECT NORTH




CONSULTANTS:
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MECHANICAL ENGINEERS
NOVADYNE LTD
ELECTRICAL ENGINEERS
KIRKLAND ENGINEERING LTD

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	2x2' RECESSED LED LIGHT FIXTURE
	SUPPLY AIR GRILLE
	RETURN AIR - EGG CRATE GRILLE
	DECO. PENDANT LIGHT
	POT LIGHT
	SINGLE or DUAL EMERGENCY LIGHT
	EXIT LIGHTS
	SMOKE DETECTOR
	JIFFY POLE
	PROJECTOR

SEE ELEC & MECH DWGS FOR ADDITIONAL CLG EQPT & DETAIL

FOR PERMIT & TENDER	FEB 5, 2026
ISSUED:	DATE:

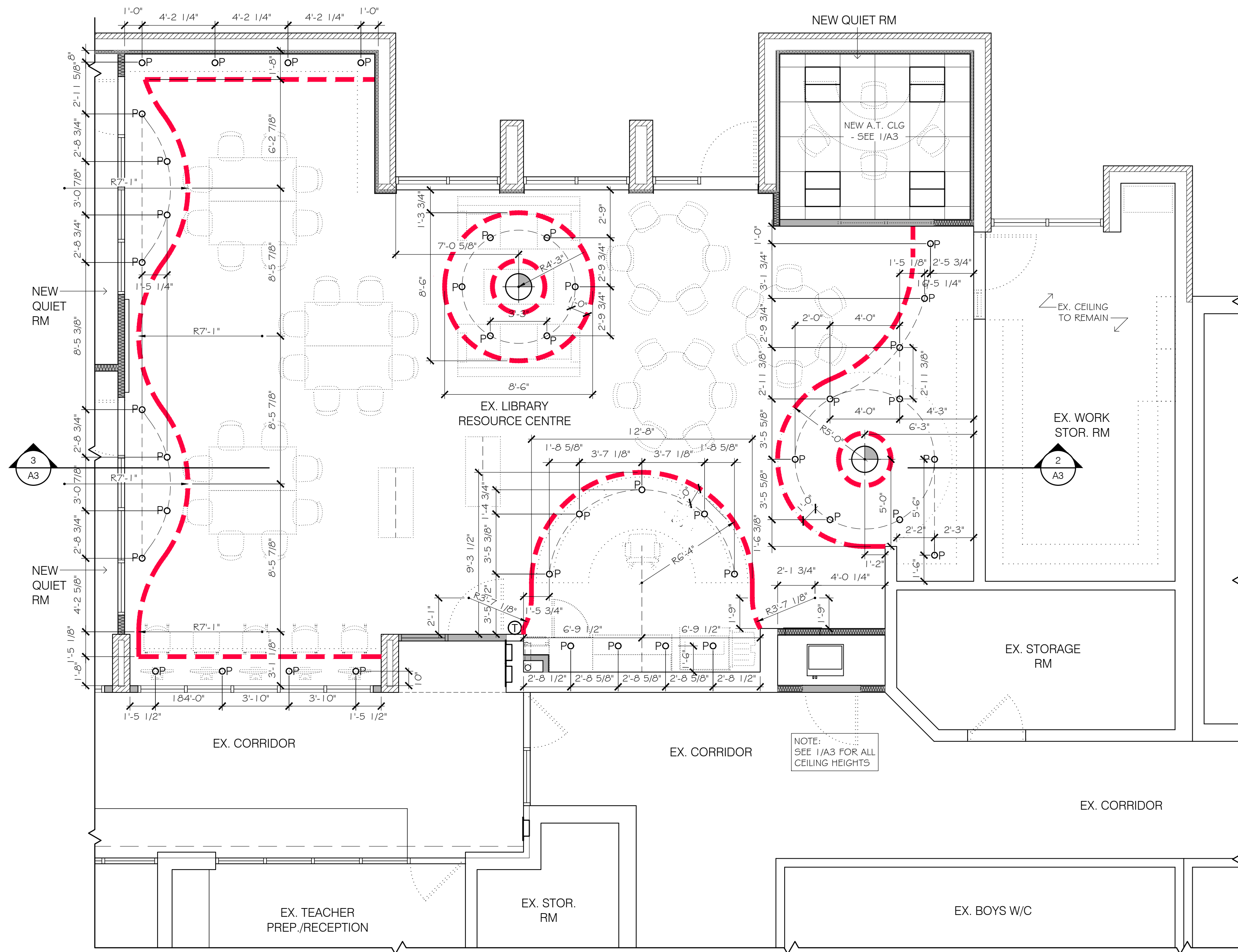
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PROJECT:
**ST. PAUL CES
OFFICE & LIBRARY
RENOVATION**

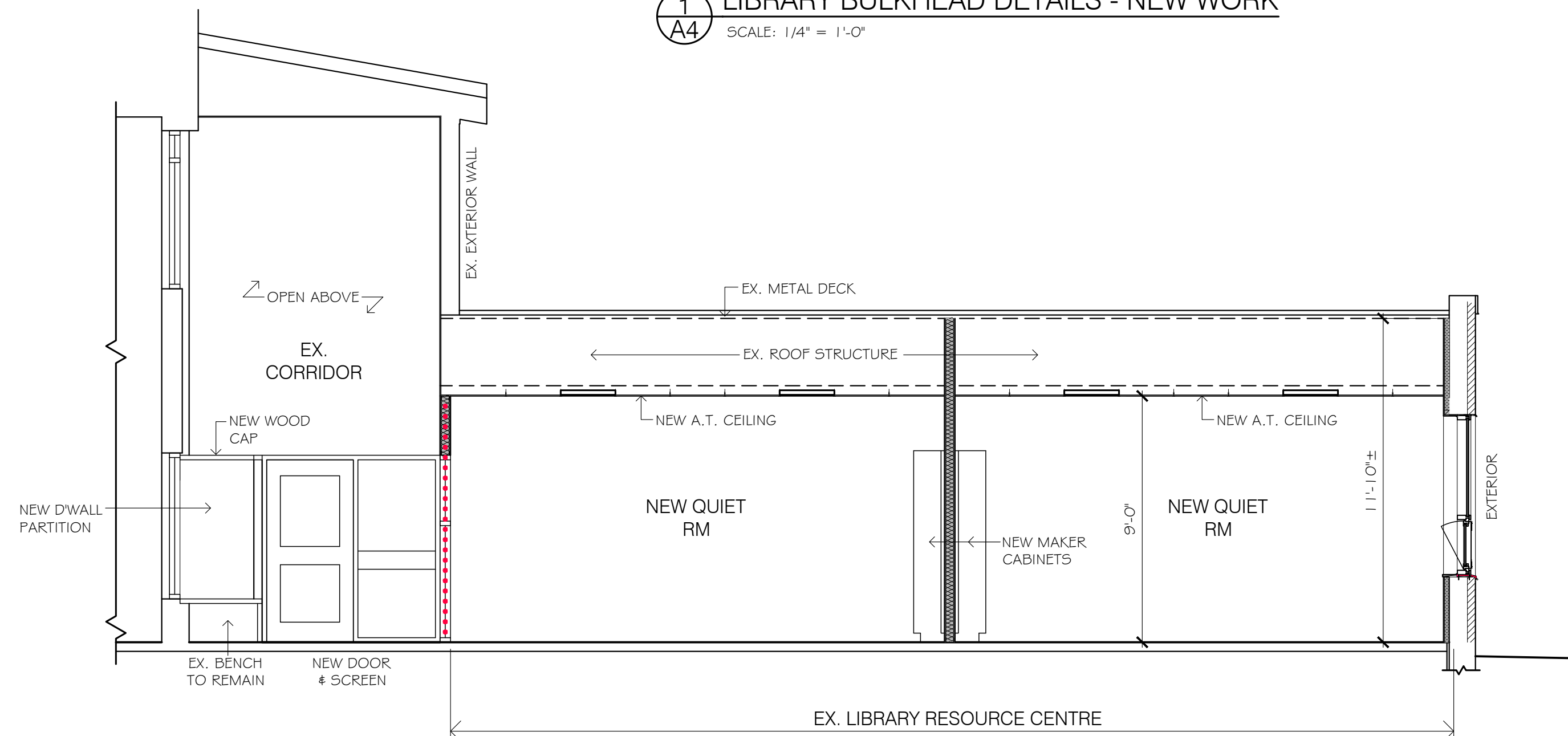
ADDRESS: 1101 HILLIARD STREET
PETERBOROUGH, ON K9H 5S2

DRAWING TITLE:
**MAIN FLOOR PLAN
REFLECTED CEILING PLAN
- NEW WORK
SECTION**

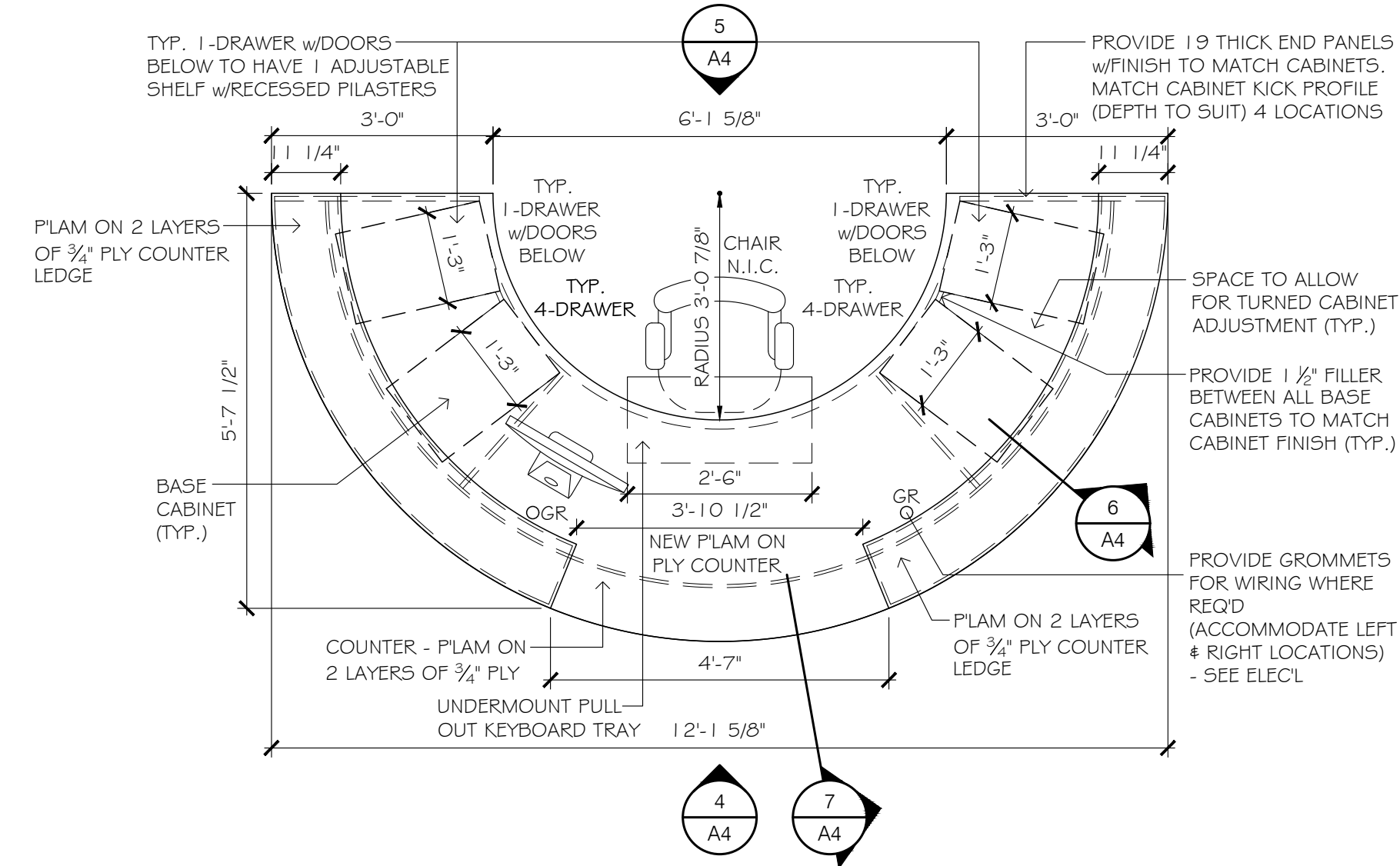
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DRAWN BY: SV	A3 OF 7 25041
CHECKED BY: GW	



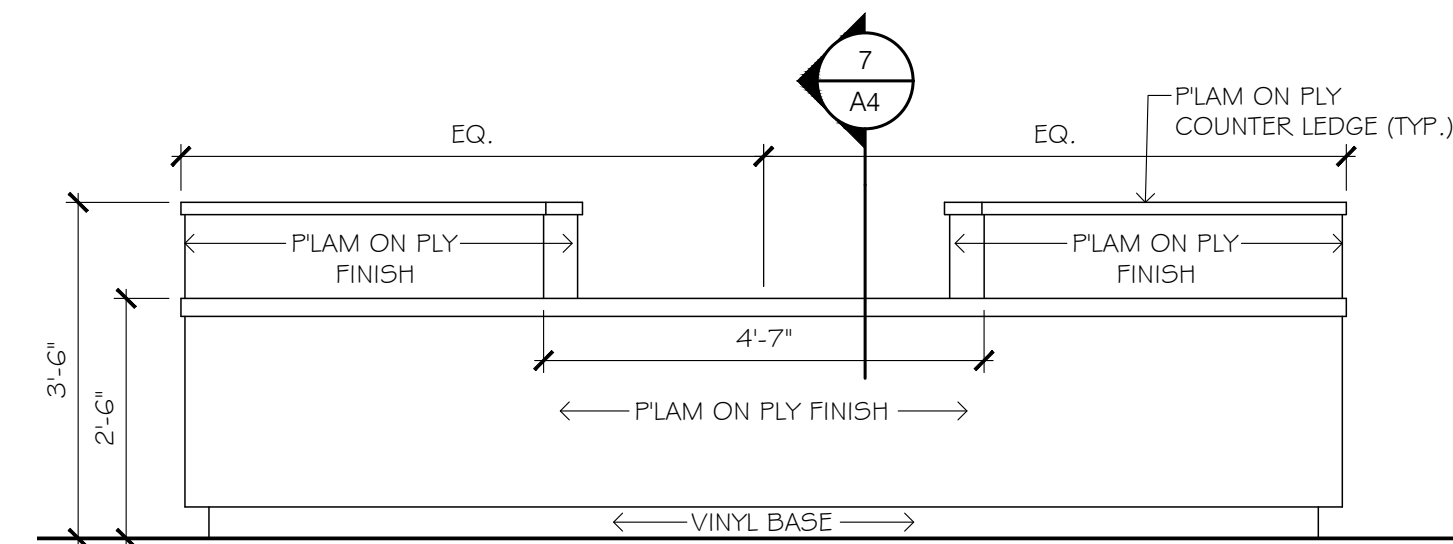
1 LIBRARY BULKHEAD DETAILS - NEW WORK
SCALE: 1/4" = 1'-0"



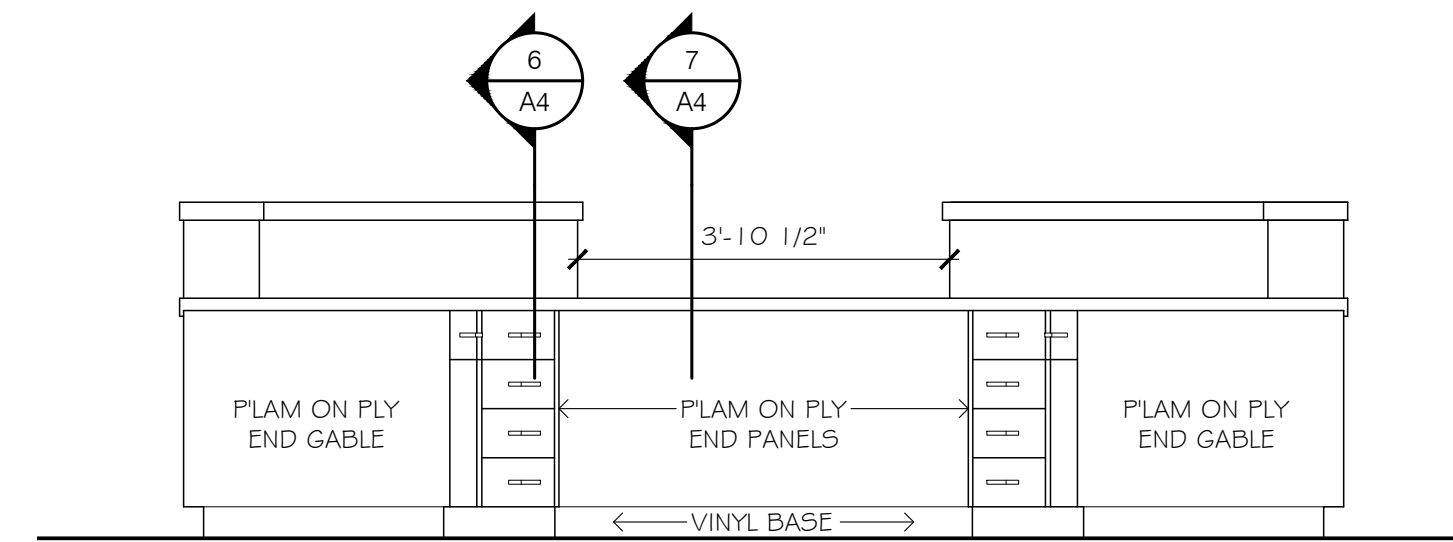
2 BUILDING SECTION - NEW WORK
SCALE: 1/4" = 1'-0"



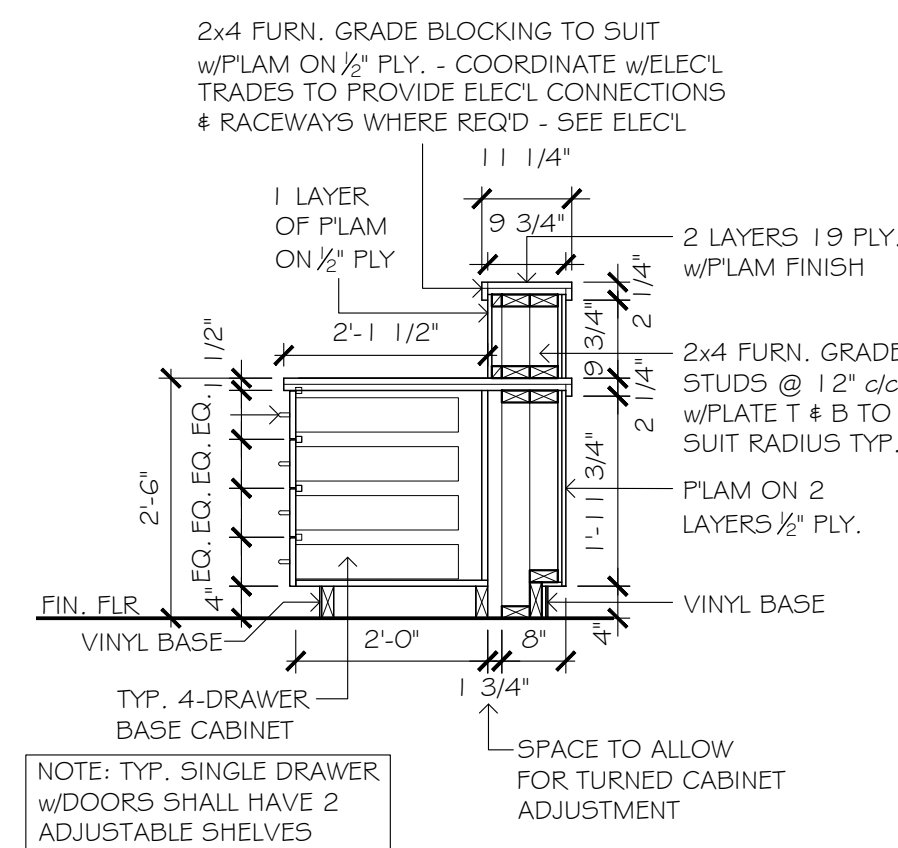
3 NEW LIBRARY CIRCULATION DESK - PLAN
SCALE: 1/2" = 1'-0"



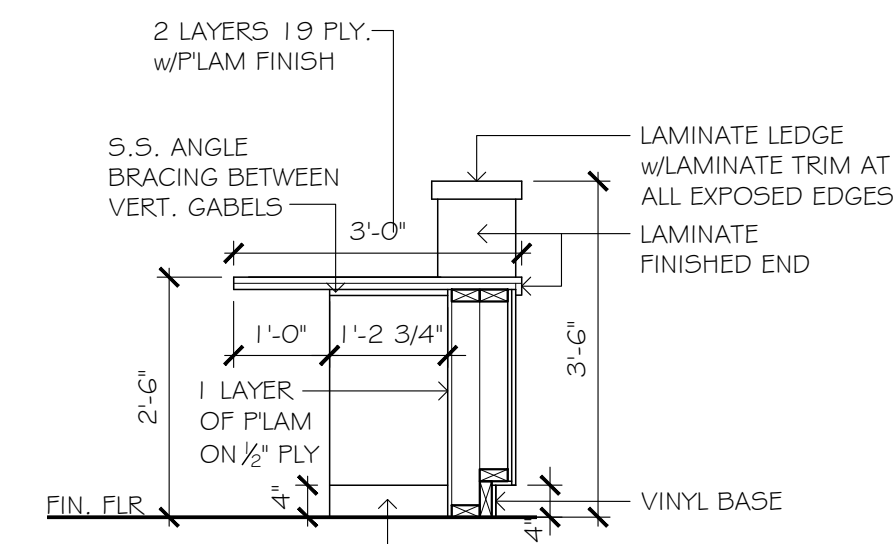
4 NEW LIBRARY CIRCULATION DESK - ELEVATION
SCALE: 1/2" = 1'-0"



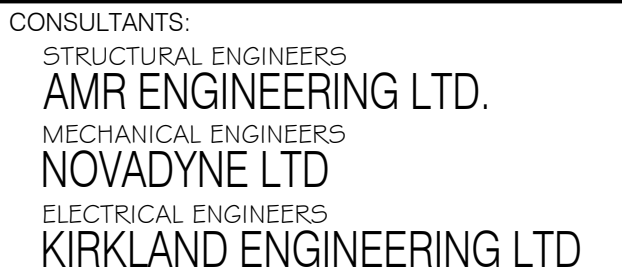
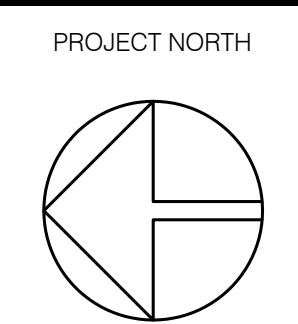
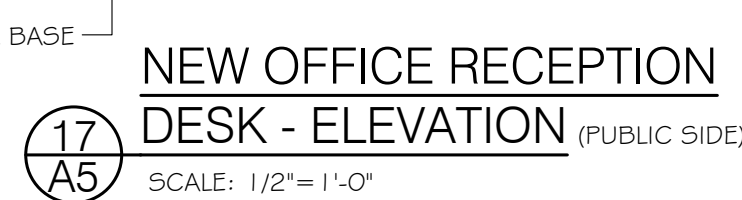
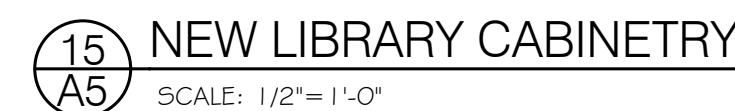
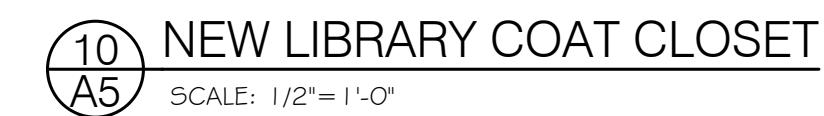
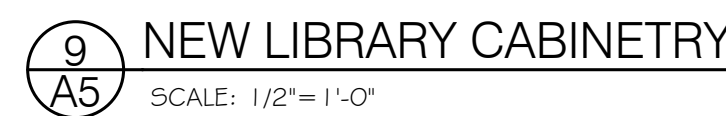
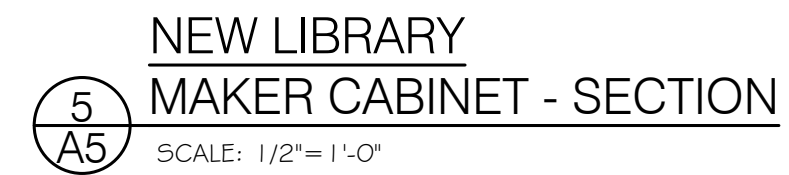
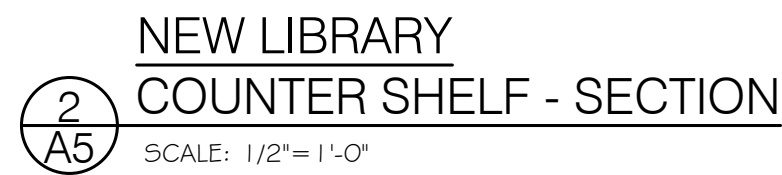
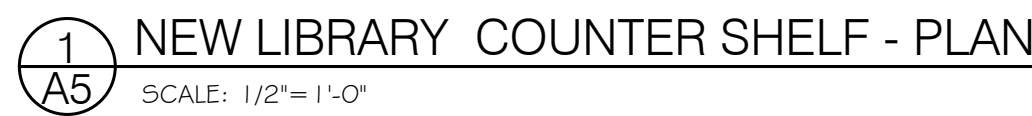
5 NEW LIBRARY CIRCULATION DESK - ELEVATION
SCALE: 1/2" = 1'-0"



6 NEW LIBRARY CIRCULATION DESK SECTION
SCALE: 1/2" = 1'-0"



7 NEW LIBRARY CIRCULATION DESK SECTION
SCALE: 1/2" = 1'-0"



FOR PERMIT & TENDER	FEB 5, 2026
ISSUED:	DATE:

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 ANY INCONSISTENCIES TO THE ARCHITECT.

PROJECT:
ST. PAUL CES
OFFICE & LIBRARY
RENOVATION

ADDRESS: 1101 HILLIARD STREET
PETERBOROUGH, ON K9H 5S2

DRAWING TITLE:
MILLWORK

SCALE: AS NOTED	DRAWING NUMBER:
DRAWN BY: SV	A5 OF 7
CHECKED BY: GW	

DESIGN CODE

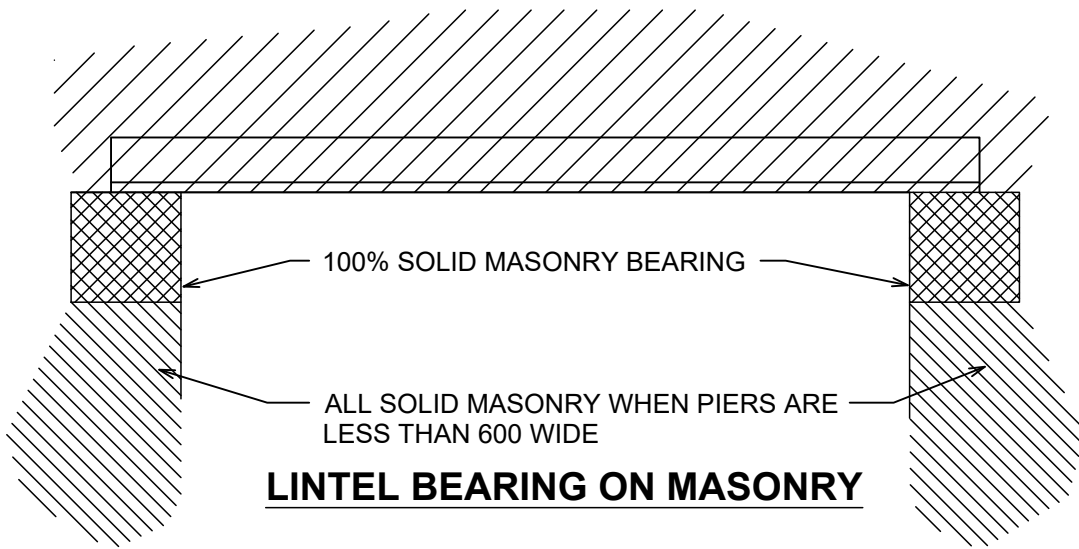
- THE COMPLETED RENOVATION TO BASE BUILDING STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE ONTARIO BUILDING CODE 2024 WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2020.

RENOVATIONS

- THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND PLACING PRACTICE. THESE ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONSULTANT OF ANY ACTUAL VARIATIONS FROM THE ASSUMED CONDITIONS.
- MINOR MODIFICATIONS TO SUIT TOLERANCES OF +/- 50mm WILL BE REQUIRED TO THE WORK INDICATED ON THESE DRAWINGS TO REFLECT ACTUAL SITE CONDITIONS. THE CONTRACTOR WILL COOPERATE WITH THE CONSULTANT AND SAIR IN THIS REGARD. MINOR MODIFICATIONS WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT RESULT IN A CHANGE IN THE CONTRACT PRICE.
- ENSURE THAT ALL NECESSARY JOB DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.
- PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO AMR PRIOR TO STARTING WORK.
- COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.
- ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO AMR FOR REVIEW. THESE OPENINGS MAY NOT BE ALLOWED, MAY HAVE TO BE MOVED, OR MAY REQUIRE ADDITIONAL STRUCTURAL WORK AND DETAILING. DO NOT PROCEED WITH THESE OPENINGS WITHOUT WRITTEN PERMISSION FROM AMR.

STEEL LINTELS

- WELD BACK TO BACK ANGLES TOGETHER TOP AND BOTTOM WITH 5mm (3/16") FILLET 50mm (2") LONG AT 450mm (18") MAXIMUM CENTERS.
- MINIMUM BEARING FOR STEEL LINTELS SHALL BE 150mm (6") AND BLOCK LINTELS SHALL BE 200mm (8").
- FOR WALLS OVER 300mm (12") THICK ADD ONE ANGLE FOR EACH ADDITIONAL 100mm (4") OF WALL THICKNESS OR PORTION THEREOF.
- FOR LINTELS ABUTTING STEEL COLUMNS, CONC WALL OR COLUMNS PROVIDE L 90x90x10 SHELF ANGLE.
- FILL VOIDS OF LINTEL BLOCK WITH 12.5 MPa GROUT MIN.
- ALL STEEL LINTELS AND SHELF ANGLES IN THE EXTERIOR MASONRY SHALL BE HOT DIP GALVANIZED.

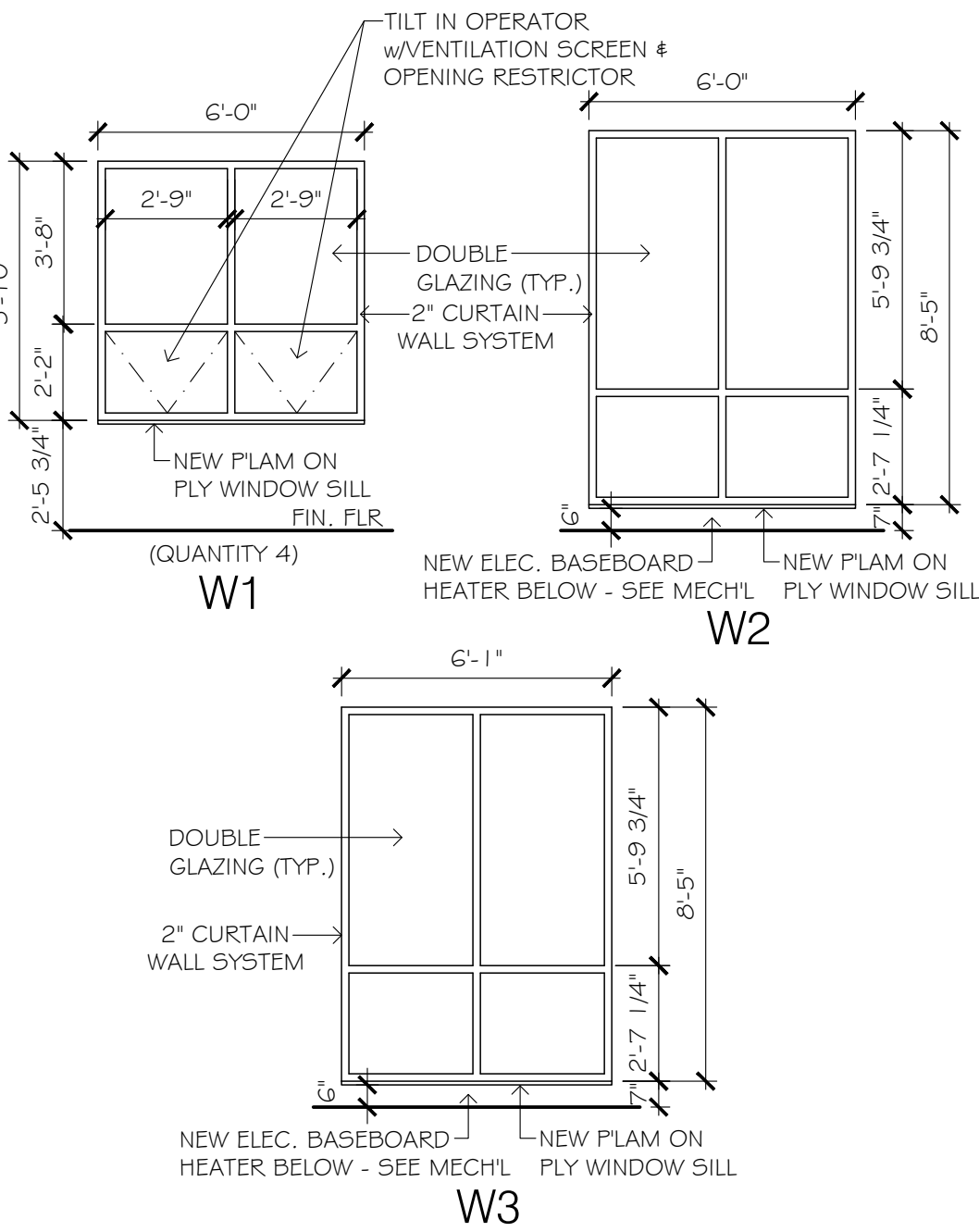


TEMPORARY SHORING NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF TEMPORARY SHORING. SUBMIT DRAWING BEARING STAMP OF P.ENG RESPONSIBLE FOR DESIGN WHEN SO DIRECTED BY THE LOCAL BUILDING AUTHORITY.
- THE CONTRACTOR SHALL CHECK AND VERIFY EXISTING SITE CONDITIONS AFFECTING WORK PRIOR TO STARTING ANY WORK. ANY INCONSISTENCIES AND/OR VARIATIONS IN EXISTING CONDITIONS AFFECTING THIS WORK SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THE CONTRACTOR MUST TAKE ALL THE NECESSARY PRECAUTIONS TO CARRY OUT THIS WORK AND BE RESPONSIBLE FOR PROTECTION OF THE EXISTING BUILDING THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING IN TWO PERPENDICULAR DIRECTIONS TO PREVENT ANY MOVEMENT IN SHORING.
- NEW OR SOUND USED MATERIAL MAY BE USED FOR SHORING MEMBERS SUBJECT TO ENGINEERS APPROVAL.
- PROVIDE WEDGES AS REQUIRED TO ENSURE TIGHT FIT.

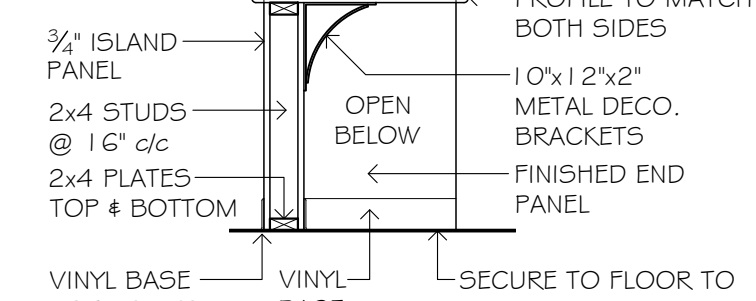
STRUCTURAL STEEL

- STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING:
 - A. WIDE FLANGE BEAMS AND WWF SECTIONS --- CSA G40.21 350W
 - B. MISCELLANEOUS ROLLED SECTIONS (EXCEPT WIDE FLANGES) --- CSA G40.21 300W
 - C. HOLLOW STRUCTURAL SECTIONS (CLASS C U.N.O.) --- CSA G40.21 350W
 - D. ROLLED PLATES --- CSA G40.21 300W
 - E. BOLTS (SEE PLANS AND DETAILS) --- ASTM A490
 - F. STRUCTURAL STEEL ANCHOR RODS (U.N.O.) --- ASTM F1554 GRADE 36 MINIMUM
 - G. REINFORCING BAR ANCHOR BOLTS --- CAN/CSA-G30.18R, GRADE 400
- ALL CONNECTIONS TO BE DESIGNED BY FABRICATOR UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS TO BE STANDARD FRAME BEAM CONNECTIONS OR EQUIVALENT, UNLESS NOTED OTHERWISE. SUBMIT A LETTER OF CERTIFICATION BY P.ENG RESPONSIBLE FOR DESIGN OF CONNECTIONS.
- SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO START OF STEEL FABRICATION.
- FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-S16.
- FILLET WELDS SHALL BE 5 mm MINIMUM U.N.O.
- BOLTS SHALL BE A325 19 mm Ø MINIMUM U.N.O.
- BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH MEMBER U.N.O.

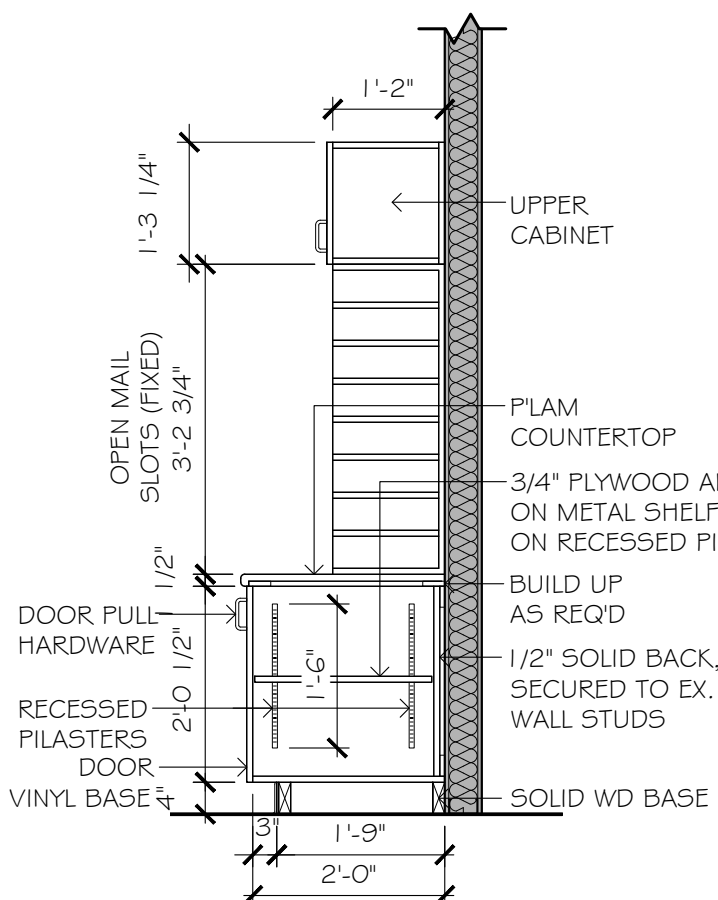


1 NEW WINDOWS
SCALE: 1/4" = 1'-0"

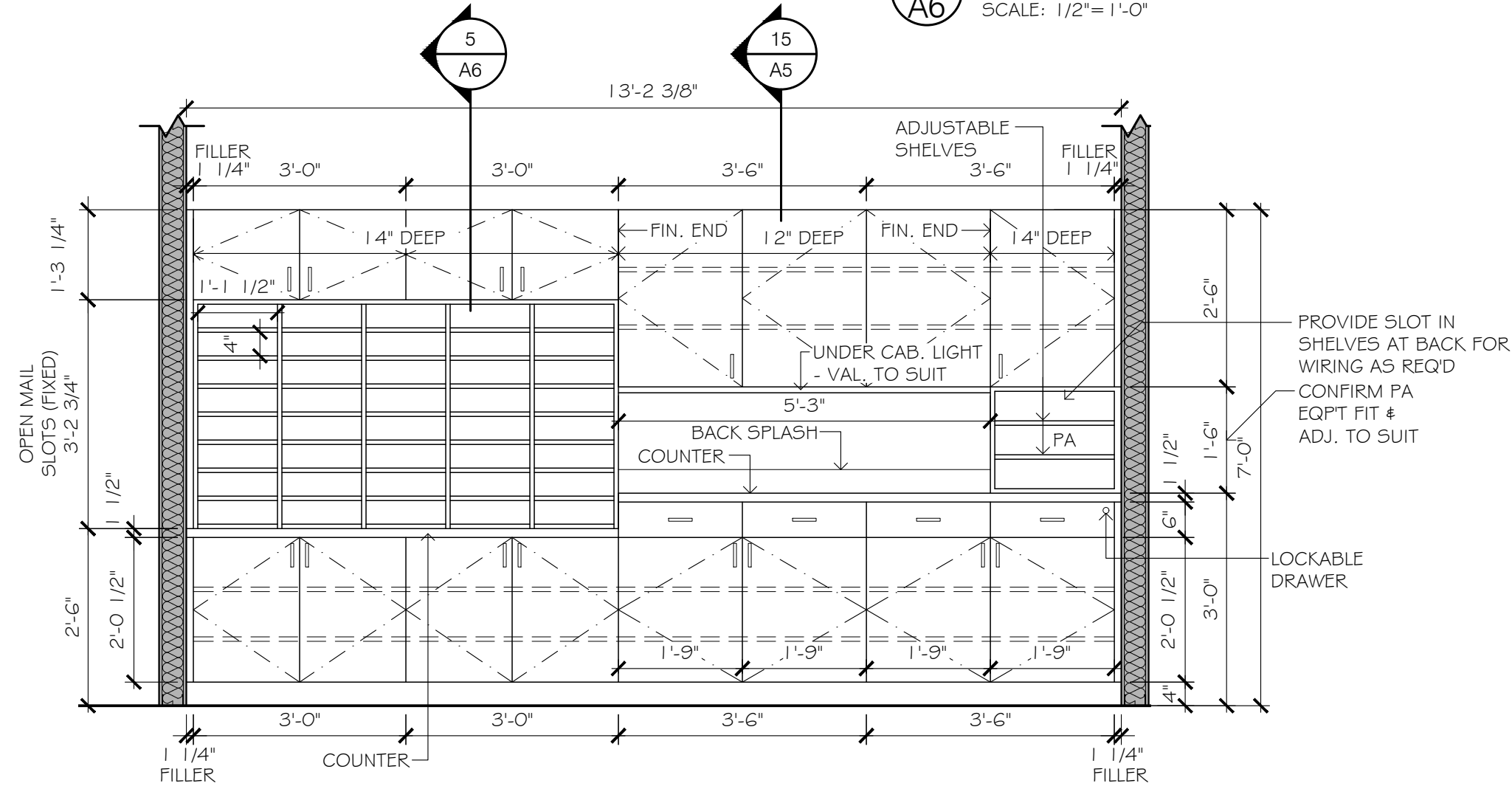
- TYPICAL CABINETRY NOTES:
- CONFIRM ALL MATERIALS, TRIMS, HARDWARE, FITTINGS & FINISHES & COLOURS w/OWNER PRIOR TO CONSTRUCTION.
 - ALL DOOR/DRAWER FACES, END PANELS, SHELVING TO BE FINISH GRADE 3/4" WOOD.
 - ALL DRAWER BACKS & BOTTOMS TO BE MIN. 1/2" THICK WOOD.
 - ALL EXPOSED FINISH CABINETRY, FACERS & FILLERS TO HAVE MATCHING FINISH.
 - SCRIBE COUNTERTOPS & CONSTRUCT NEW CABINETS TO INCORPORATE ALL BUILDING SITE CONDITIONS.
 - PROVIDE ALL COUNTER BUILD UP & FILLERS AS REQ'D.
 - ALL COUNTER EDGE PROFILE SHAPES TO BE CONFIRMED WITH OWNER.
 - LAMINATE COUNTERS TO BE FINISHED w/MATCHING LAMINATE @ ALL EXPOSED SURFACES.
 - APPLY CLEAR WATERPROOF SEALANT @ COUNTER BACK & SIDE SPLASHES/WALL JOINTS.
 - PROVIDE 3/4" THICK PLYWOOD BASE OR HEAVY DUTY LEVELING FEET AND SECURE KICK SUPPORT. ENSURE BASE IS LEVEL & TRUE BEFORE INSTALLATION OF FINISH CABINETRY.
 - TOEKICK TO HAVE VINYL BASE FINISH.
 - ALL DOUBLE DOOR CABINETS TO HAVE PLYWOOD FRONT EDGE SHELF REINFORCING STRIPS TO PREVENT SAG OR INTERMEDIATE SHELF SUPPORT.
 - ALL SHELVES TO BE ADJUSTABLE U.O.N. w/APPROVED METAL SHELF SUPPORTS.
 - SECURE NEW CABINET BACKS TO EXISTING WALL STRUCTURE AS REQUIRED.
 - DOOR/DRAWER PULLS TO BE STAINLESS STEEL AND ALL HARDWARE TO BE SOFT CLOSE.



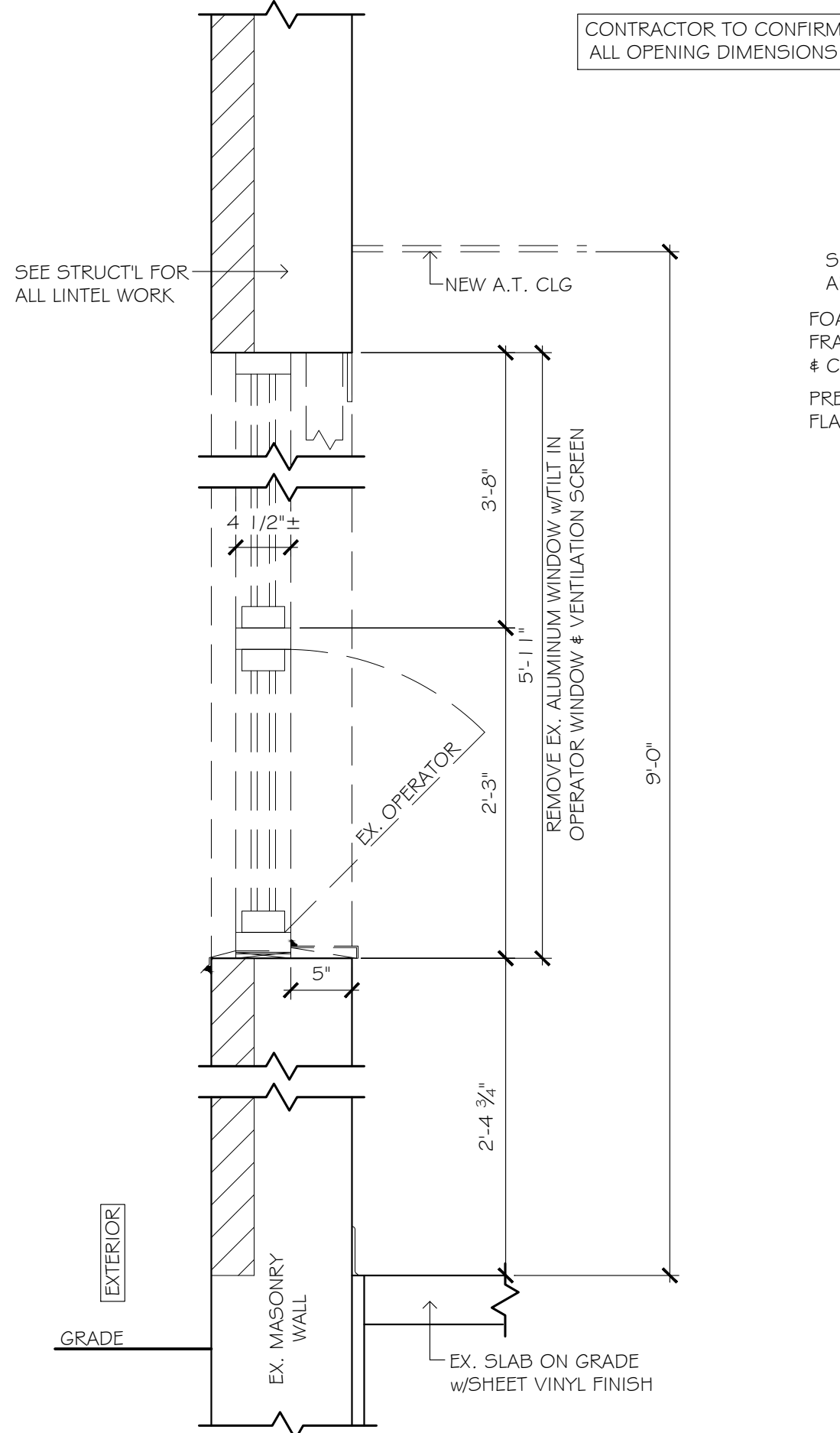
NEW OFFICE RECEPTION
DESK - BARRIER FREE SECTION
SCALE: 1/2" = 1'-0"



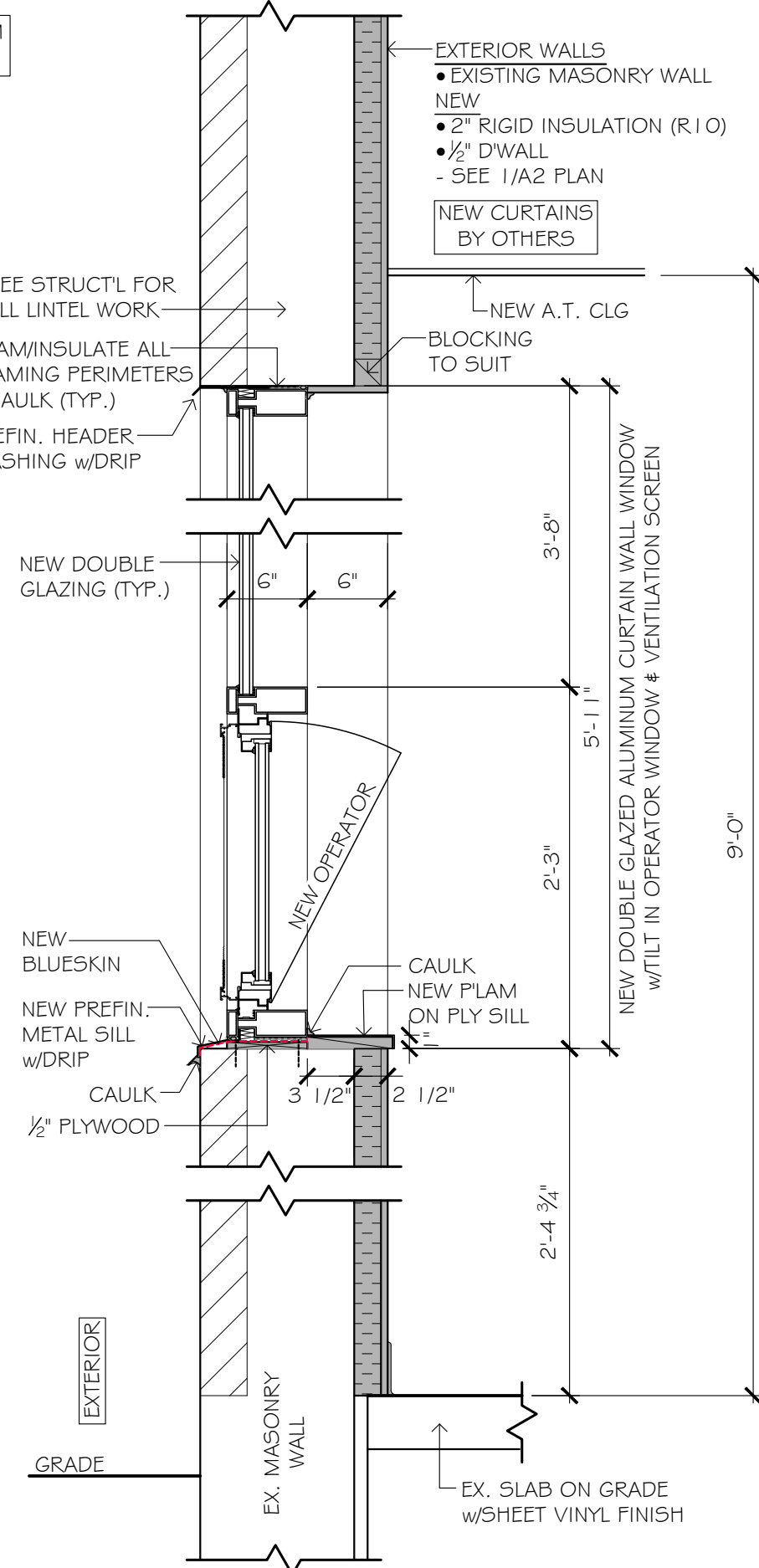
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MAIL - STORAGE - PA
SCALE: 1/2" = 1'-0"



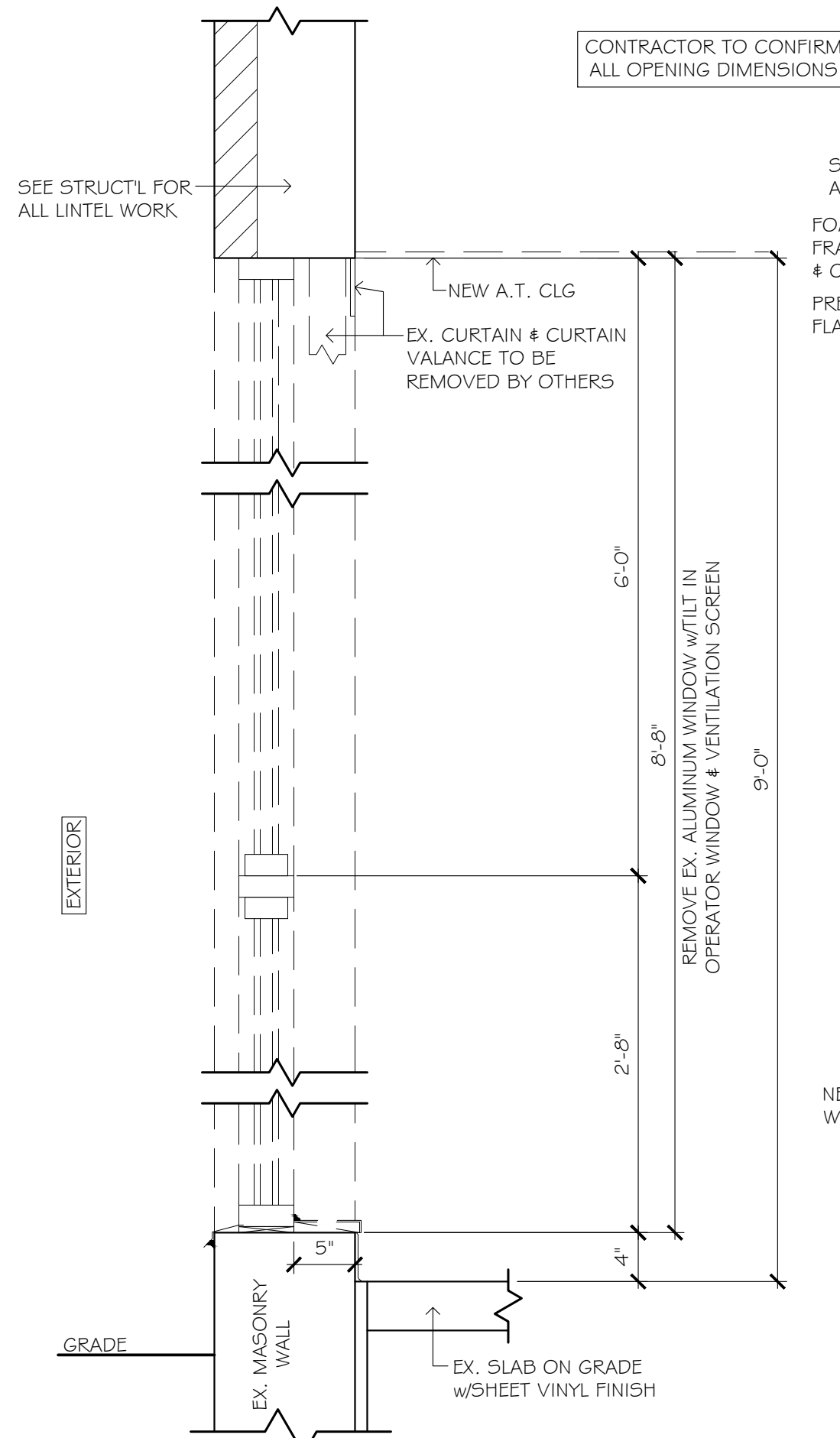
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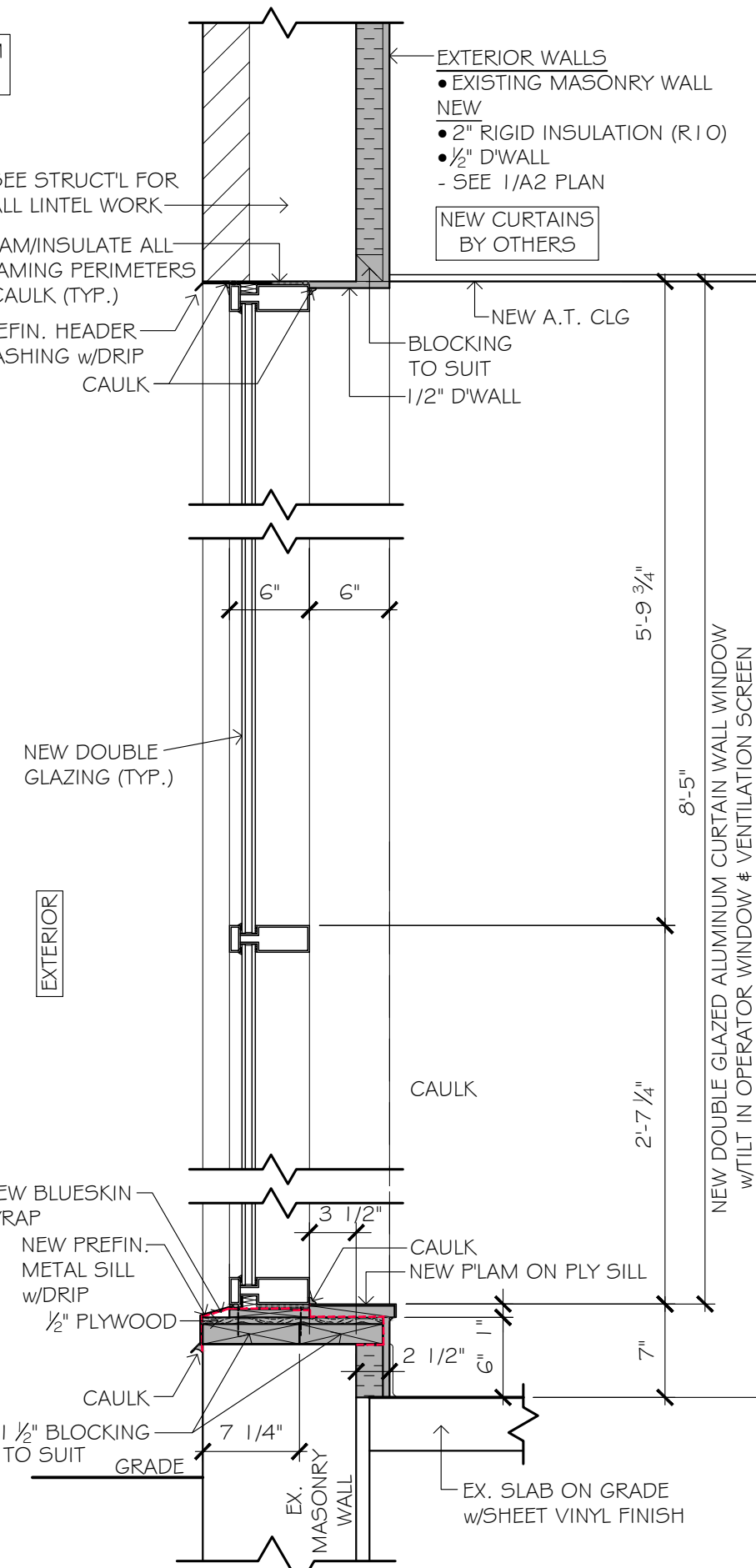
6 EX. WINDOW - DEMOLITION
SCALE: 1" = 1'-0"



7 NEW WINDOW - NEW WORK
SCALE: 1" = 1'-0"



8 EX. WINDOW - DEMOLITION
SCALE: 1" = 1'-0"



9 NEW WINDOW - NEW WORK
SCALE: 1" = 1'-0"

WILCOX ARCHITECTS INC.
74 LINDSAY ST. SOUTH
LINDSAY, ONTARIO
PHONE: 705-328-0175
wilcox.off@gmail.com

ONTARIO ASSOCIATION of ARCHITECTS
CLUB # 2 WILCOX
LICENCE 3966

PROJECT NORTH

Peterborough Victoria Northumberland and Clingston Catholic District School Board

CONSULTANTS:
STRUCTURAL ENGINEERS
AMR ENGINEERING LTD.
MECHANICAL ENGINEERS
NOVADYNE LTD
ELECTRICAL ENGINEERS
KIRKLAND ENGINEERING LTD



FOR DESIGN OF STRUCTURAL COMPONENTS ONLY
DATE: JANUARY 18, 2025
PROJECT No.: 25-2332
PROJECT:
ST. PAUL CATHOLIC ELEMENTARY SCHOOL OFFICE & LIBRARY RENOVATION
PETERBOROUGH, ONTARIO

AMR ENGINEERING LTD.
920 ALBANY STREET, SUITE 205
TORONTO, ONTARIO M3J 2H7
TEL: 416-951-1611
FAX: 416-477-0428

FOR DESIGN OF STEEL LINTELS FOR NEW OPENINGS ONLY

FOR PERMIT & TENDER FEB 5, 2026

ISSUED: DATE:

THIS DRAWING IS COMPLEMENTARY & MUST BE READ IN CONJUNCTION WITH ALL THE OTHER DRAWINGS AND/OR SPECIFICATIONS. REPORT ANY INCONSISTENCIES TO THE ARCHITECT.

PROJECT:
ST. PAUL CES OFFICE & LIBRARY RENOVATION

ADDRESS: 1101 HILLIARD STREET
PETERBOROUGH, ON K9H 5S2

DRAWING TITLE:
MILLWORK STRUCTURAL NOTES

SCALE: AS NOTED DRAWING NUMBER:

DRAWN BY: SV

CHECKED BY: GW

A6
OF 7
25041

15100 BASIC REQUIREMENTS

1.0 SCOPE OF WORK

- 1.1 The work includes the supply and installation of materials, equipment and services to modify and upgrade the plumbing and HVAC systems for the Library Renovations at St Paul CES, Peterborough, as shown on the drawings.
- 1.2 Upon completion of the work leave all systems in proper operating order and the premises in a clean and tidy condition to the satisfaction of the Consultant.

2.0 REGULATIONS, CODES AND STANDARDS

- 2.1 The work shall accord strictly with all rules, regulations, by-laws and the requirements and interpretations of all authorities having jurisdiction.
- 2.2 Drawings and specifications should not conflict with the above regulations, but where there are apparent discrepancies the Contractor shall notify the Consultant in writing and obtain clarification before proceeding with the work.
- 2.3 The work of the mechanical division shall conform to the following Codes, Regulations and Standards including, unless referenced otherwise, latest revisions issued up to date of tender submission.
1. The Ontario Building Code.

2. NFPA 90A with respect to Air Conditioning and Ventilating Systems.

3. NFPA 90B with respect to Warm Air Heating and Air Conditioning Systems.

4. ASHRAE Guide and Data Books.

5. SMACNA "HVAC Duct Construction Standards"

6. All other codes, standards, regulations referred to in the above documents, adopted by the authorities having jurisdiction and/or applicable to the work of this Division as shown on the contract documents.

7. Ontario Natural Gas Utilization Code CGA/CSA B149.1.

3.0 EXAMINATION OF SITE

- 3.1 The actual location of existing services shall be verified in the field before work is commenced.

4.0 DRAWINGS, CHANGES AND INSTALLATIONS

- 4.1 The drawings shall be considered to show the general character and scope of the work and not the exact details of the installation. The installation shall be complete with all accessories required for a complete and operative installation. The Consultant reserves the right to make reasonable changes required to accommodate conditions arising during the progress of the work, at no extra cost to the Owner.

5.0 RECORD DRAWINGS

- 5.1 The Contractor shall clearly mark, as the job progresses, all changes and deviations from that shown on contract drawings. On project completion, the Contractor shall forward to the Consultant one set of drawings indicating the as-built conditions.

6.0 SHOP DRAWINGS

- 6.1 Submit three copies of shop drawings or digital pdfs which indicate clearly the materials and/or equipment actually being supplied, all details of construction, accurate dimensions, capacity, operating characteristics and performance shall be submitted to the Consultant for approval. Each shop drawing shall give the identifying number of the specific pump, fan, etc. for which it was prepared (e.g. Fan F-7) Shop Drawings in pdf format are acceptable.
- 6.2 Prior to submission to the Consultant, **THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND APPROVE THEM**, indicating that the drawings have been checked and the described equipment has been co-ordinated.
- 6.3 Installation of any equipment shall not be commenced until after shop drawings have been reviewed by the Consultant.
- 6.4 Bind one complete set of reviewed Shop Drawings into each operating and maintenance instruction manual.

7.0 QUALIFICATION OF TRADESMEN

- 7.1 The Contractor shall maintain at the job site, at all times, qualified personnel and supporting staff, with proven experience in erecting, supervising, testing and adjusting projects of comparable nature and complexity.

8.0 PRODUCT DELIVERY, STORAGE AND HANDLING

- 8.1 Inspect products delivered to the site, and before acceptance ensure that the product is: new, the best of its respective kind, free from defects, is as specified, and is as per reviewed shop drawings, all in accordance with the Contract Documents.
- 8.2 Store materials only in designated areas and protect as necessary to maintain materials in new condition.
- 8.3 Any unpainted steel surface shall be prime coated under this Division.

9.0 WARRANTY

- 9.1 The Contractor shall provide a warranty of one year for all systems and equipment installed under this contract. The Contractor agrees to correct promptly, at his own expense, defects or deficiencies in the Work which appear prior to and during the period of one year from the date of acceptance by the Owner of the Work or portions of the work.

10.0 OPERATION AND MAINTENANCE INSTRUCTIONS

- 10.1 Three (3) copies of complete operating and maintenance instructions for all mechanical equipment and systems, bound in hard covered manuals, shall be supplied.

11.0 INSTRUCTIONS TO OWNER

- 11.1 Instruct the Owner's representative(s) in all respects of the operation and maintenance of systems and equipment. Obtain in writing from the Consultant a list of the Owner's representative(s) qualified to receive instructions.

15200 BASIC MATERIALS AND METHODS

1.0 MATERIALS

- 1.1 Make and quality of materials in the construction of this project shall be subject to the approval of the Consultant.
- 1.2 Materials and equipment supplied by this Division shall be new and free from defects and shall be equivalent in physical characteristics and performance to that specified by the manufacturer's name and catalogue number.

2.0 CUTTING, PATCHING, SLEEVES AND ESCUTCHEONS

- 2.1 The Contractor shall co-ordinate on site the position of all sleeves and openings required for the work.
- 2.2 Openings shall be made at the expense of the mechanical division, except for lower openings which shall be co-ordinated with the general contractor. Cutting of structural members shall not be permitted without specified written approval by the Consultant.
- 2.3 All drilling for hangers, rod inserts and work of similar nature shall be done under this contract.
- 2.4 It shall be the responsibility of the mechanical division to locate and provide anchor bolts, equipment bases and curbs.

3.0 HANGERS AND EQUIPMENT SUPPORTS

- 3.1 Piping and equipment provided under the mechanical division shall be complete with all necessary supports and hangers required for a safe and workmanlike installation. Auxiliary structural members shall be provided under the mechanical section concerned, where piping, ducts or equipment must be suspended between the joists or beams of the structure.

4.0 ELECTRICAL CHARACTERISTICS

- 4.1 Electric motors for all driven equipment supplied under the mechanical division shall be provided and installed under this Division.
- 4.2 Motors shall have the following electrical characteristics, unless otherwise specified:
For 1/3 HP or larger – 208 volt – 3 ph – 60 Hz
For 1/4 HP and smaller – 120 volt – 1 ph – 60 Hz

5.0 ACCESS PANELS AND ACCESSIBILITY

- 5.1 All parts of the installation requiring periodic maintenance shall be accessible. Wherever valves, dampers, etc. are concealed by the building construction, access doors or panels shall be furnished by this section and installed under this contract. The mechanical division shall be responsible for their proper location.

6.0 CLEANING

- 6.1 Clean thoroughly all fixtures and equipment from grease, dirt, plaster or any other foreign material. Any dirt, rubbish or grease on walls, floors or fixtures accumulated from the work of the mechanical division shall be removed promptly from the premises by this division.

7.0 COOPERATION WITH OTHER DIVISIONS

- 7.1 Each section shall confine itself to installing all materials in the spaces shown without encroaching upon space for materials installed under other sections or divisions. Where the space allotted to another section or division is encroached upon, the materials shall be relocated to their proper space allotments in such a manner to complete the work using space allotted to the various sections and divisions. Relocation of materials and work involved shall be paid for by the section responsible for the encroachment at no extra cost to the Owner.

8.0 NAMEPLATES & SIGNS

- 8.1 Each piece of mechanical equipment shall be complete with a lamacoid nameplate securely fastened in a conspicuous place on the equipment. The nameplate shall be 3/32" thick laminated phenolic plastic 3-3/8" long x 1-5/8" wide with black face and white

centre, 7/32" high lettering shall be engraved through to the white lamination with the following –
– Equipment type and number. E.g., Fan. No.1, Pump No. 2 etc.

9.0 MAINTENANCE MATERIALS

- 9.1 Lubricating oils, greases, spare parts, replacement parts and special maintenance and service tools where called for in the specifications shall be presented to the Owner during the instruction period.

10.0 DUCT CLEANING

- 10.1 The interiors of all new plenums, casings and ductwork, shall be certified as clean by the mechanical contractor before final air balancing is performed. Copy to be sent to the Consultant.

15300 INSULATION AND LININGS

- 1.1 Acoustic Lining to be 1" thick rigid, coated liner conforming to NFPA 90A and 90B. Increase duct sizes to compensate for increased thickness. Fasten lining with welded pins and self locking washers. Install lining where indicated on drawings and on all supply and return ductwork to air handling units, furnaces, etc., up to and including the first elbow or a minimum total length of 6'-0".
- 1.2 Insulation must be dust free, fibre free and resist mold and mildew.
- 1.3 Insulation materials to have a conductivity of .27 BTU-in/hr-²ft² and have a flame –spread index of less than 25 and a smoke developed index of less than 50.
- 1.4 Fresh air supply and exhaust ducting to the outdoors is to be insulated with 2" rigid fiberglass and canvas coveredand paintedto match adjacent walls. Tape all joints with foil backed tape. Hold in place with metal pins and wire.
- 1.5 Supply ducting from the air handlers is to be insulated with 1" thick .75# fiberglass, equal to Manson Alley Wrap FSK, unless the ducting is acoustically lined. Fasten with wire bands at 12" centres. Tape all joints with foil tape.

15400 PLUMBING SPECIFICATIONS

- 1.1 Reference: Ontario Building Code
- 1.2 Scope of work for Plumber: condensate pumps and drains for HVAC equipment
- 1.3 Architectural drawings to govern the number and location of fixtures, except for floor drains.
- 1.4 Fixtures to be the product of one manufacturer and of the same type.
- 1.5 Trim in any one washroom to be the product of one manufacturer.
- 1.6 Exposed plumbing brass to be chrome plated.
- 1.7 DCM and DHW above ground main piping to be copper tube, hard drawn, type L to ASTM B88M. Bronze or copper fittings, soldering with lead free solder. Branch piping 1" or less into classrooms, and into washrooms may be PEX piping to CAN/CSA-B137.10
- 1.8 Isolation valves: Class 150, screwed or soldered, bronze body, chrome plated brass ball, PTFE teflon adjustable packing, brass gland, PTFE teflon seat, plastic coated steel handle.
- 1.9 Check valves: 200 lb. class, bronze body Watts CV or equal.
- 1.10 Below Grade Sanitary: PVC to CAN/CSA B181.2, solvent welded to ASTM D2235.
- 1.11 Above Grade Sanitary and Venting: PVC to CAN/CSA B182.2, solvent welded to ASTM D2235 with a flame spread rating of 25 or less. Pipe to be IPEX System 15. Pipe in ceiling space acting as a return or plenum is to be plenum rated with a flame spread of 25 and smoke developed of less than 50. Pipe to be equal to IPEX XFR.
- 1.12 Domestic water pipe insulation to be 1" thick preformed rigid fibre glass with factory applied vapour barrier and self seal lap joint equal to Manson Alley K with APT jacket. Use premoiled PVC covers for fittings over 1" in size.
- 2.0 Execution
- 2.1 Slope drains in the direction of flow.
- 2.2 Flush out and rinse systems. Leak test before plumbing is closed in or buried.
- 2.3 Seal all penetrations through fire separations (walls between rooms and corridors) to Code and ULC requirements. Use fire proof caulking equal to Hilti FS-1.
- 2.11 PVC pipe penetrations through fire separations are to be protected with firestop collars, caulking , etc. and be ULC rated for the rating specified. Acceptable manufacturers are Hilti, 3M. Shop drawings are to be provided for all firestopping details.

15600 SHEET METAL DUCTWORK AND SPECIALTIES

- 1.1 Make all ductwork, unless specifically noted otherwise, of galvanized sheet steel to ASTM A525-83, and according to the requirements of SMACNA for a 1" wg pressure class and a seal class of 'C'. Provide reinforcements fabricated from angles, zeos, or channels as per SMACNA. Support ducts with hangers and tie-rods.
- 1.2 Where ductwork passes through a wall or floor, other than when a fire damper is required, pack around the duct using a fire resistant material to ensure a sound and air-tight joint.
- 1.3 Make changes in direction of horizontal ducts with elbows having an inside radius not less than the width of the duct. Make a change of direction from horizontal to vertical duct with elbows having an inside radius equal to the depth of the duct. Where this is not possible due to the building construction, use turning vanes. These shall be hollow "Duro Vane Rail" manufactured by Duro Dyne or similar turning vane acceptable to the Consultant. Square throat elbows are not acceptable.
- 1.4 Provide flexible connections at each air handling unit and fan to duct connection. The frame shall be galvanized sheet metal with fire-resistant neoprene coated glass fabric, clenched by double locked seams. Temperature rating shall be -40oF to 190oF.
- 1.5 Provide access panels at all gravity dampers, fire dampers, motorized dampers, coils, fan bearings or similar equipment requiring occasional maintenance or inspections. Panels shall be 1" thick, insulated, low leakage, cam lock closure, and equal to Nailor Series 0800. Minimum size to be 6x12 or 2" less than the duct width squared.
- 1.6 For duct expansions, the angle formed at each side of the duct shall not exceed 20'. For contractions, the angle formed at each side of the duct shall not exceed 30'.
- 1.7 Provide take-off boots and balancing dampers at all branches according to SMACNA standards.
- 1.8 Grilles and Diffusers: Refer to schedules on drawings for size, colour and supplier.
- 1.9 Insulated flexible ducting is to be used to connect ductwork to ceiling diffusers. Maximum length of the flex ducting to be four feet. Ducting and insulation to meet NFPA requirements for to flame spread and smoke developed, 25/ 50. Support flexible ducting a minimum of every 5 feet. Flex ducting to have aluminum core and be acoustically treated, equal to Peppertree TFAP-M
- 1.10 Fire Dampers (FD) shall be installed at all fire separations. Dampers shall have a 165oF fusible link, be Type B, ULC listed and be rated for 1½ hours. Where necessary, provide access doors (minimum the height of the ducting squared or 8"x8" whatever is greater) in the ductwork for resetting the dampers. Where necessary, provide drywall access doors, minimum 10" square.
- 1.11 Combination fire & smoke dampers shall be installed at corridor wall penetrations. Refer to specifications and schedule.

15800 AIR CONDITIONING AND HEATING UNITS

1.0 GENERAL

- 1.1 This specification applies to all hvac air appliances and equipment.

1.2 SUBMITTALS

- 1.2.1.Submit Shop drawings and product data in accordance with the specifications
- 1.2.2.Submittals shall include the following:
- Dimensioned plan and elevation view drawings, required clearances, and location of all field connections.

– Summary of all auxiliary utility requirements, such as electricity, water, compressed air, etc.. Summary shall indicate quality and quantity of each required utility

– Single-line schematic drawing of the power field hookup requirements, indicating all items that are furnished.

– Installation and maintenance manuals.

1.3 QUALIFICATIONS

- 1.3.1.Equipment manufacturer must specialize in the manufacture of the type of products specified and have five years experience with similar equipment and refrigerant offered.
- 1.3.2.Regulatory Requirements: Comply with the codes and standards specified
- 1.3.3.Manufacturer's plant must be ISO Registered.

1.4 DELIVERY AND HANDLING

- 1.4.1.Units shall be delivered to the job site assembled and charged with a holding charge of refrigerant and full oil charge by the manufacturer.
- 1.4.2.Comply with the manufacturer's instructions for rigging and handling equipment.

1.5 DESIGN CONDITIONS

Summer Inside: 75oFDB, 50% RH, Summer Outside: 87oFDB, 73oFWB,

15801 VRF HEAT PUMP UNITS

1.0 GENERAL

- 1.1 The VRF heat pump system shall be installed as indicated. Each system shall consist of an outdoor unit and an indoor air handling unit as per the schedule and as shown on the drawings.
- 1.2 Each heat pump shall be factory assembled, wired and tested. Within the unit shall be all factory wiring, piping, electronic modulating linear expansion device, control circuit board and DC fan motor. The unit shall have a self-diagnostic function, time delay mechanism, an auto restart function, an emergency operation function and test run function. Indoor unit refrigerant pipes shall be charged with dehydrated air before shipment from the factory. The unit shall be ETL certified. A dry air holding charge shall be provided in the indoor section. Refrigerant to meet current regulations. System efficiency shall meet or exceed 18 SEER when part of a 1:1 (indoor/outdoor) system.
- 1.3 Submittals shall include the following: performance and capacity details of all units at specified indoor and outdoor conditions, estimated piping lengths, refrigerant charge per system, wiring diagrams, and warranty information.
- 1.4 All units shall be listed and rated by ANSI/AHRI Standard 1230 and meet all current minimum IEER performance requirements units shall be ANSI/UL STD 1995 listed and listed by Electrical Testing Labs (ETL) and bear the cETL label.All wiring shall be in accordance with the Ontario Electric Code.

- 1.5 The system will be produced in an ISO 9001 and ISO 14001 facility, which are standards set by the International Standard Organization (ISO).
- 1.6 The system and the design shall be in compliance with CSA B52 Mechanical Refrigerant Code, and ASHRAE 15-2022 and 34-2022.
- 1.7 Acceptable manufacturer:
- Mitsubishi equipment, distributed by MitsAir Conditioning Inc., Mississauga, ON. Contact Birty Rajapaksha, (905-362-5273)

– the refrigerant will be flammable R454B.
- 1.8 The warranty period on all parts and compressors shall commence on the date of initial start-up and shall continue for a period of ten (10) years from date of shipment. Proper maintenance of the equipment shall be conducted by certified technicians as per the manufacturer or manufacturer's representative requirements. Maintenance logs shall be supplied by the owner upon request.
- 1.9 All manufacturer warranty shall be for parts only. All diagnosis and labour warranty shall be carried out by installing contractor as per the warranty requirements of this project.

Part 2- PRODUCTS

2.1 Outdoor Unit

- 2.1.1 Unit Cabinet:
- The casing shall be fabricated of galvanized steel, banded, finished with an electrostatically applied, thermally fused acrylic or polyester powder coating for corrosion protection.

2.1.2 Fan:

- The unit shall be furnished with a direct drive, high performance propeller type fan.

– The condenser fan motor shall be a variable speed, direct current (DC) motor and shall have permanently lubricated bearings.

– Fan speed shall be switch automatically according to outdoor ambient temperature and indoor temperature demand.

– The fan motor shall be mounted with vibration isolation for quiet operation.

– The fan shall be provided with a raised guard to prevent contact with moving parts.

2.1.3 Coil

- The outdoor unit coil shall be of nonferrous construction with lanced or corrugated plate fins on copper tubing.

– The coil shall be protected with an integral guard.

– Refrigerant flow from the outdoor unit to the indoor units shall be independently controlled by means of individual electronic linear expansion valves for each indoor unit.

– All refrigerant lines between outdoor and indoor units shall be of annealed, refrigeration grade copper tubing, ARC Type, meeting ASTM B280 requirements, individually insulated in twin-tube, flexible, closed-cell, CFC-free (ozone depletion potential of zero), elastomeric material for the insulation of refrigerant pipes and tubes with thermal conductivity equal to or better than 0.27 BTU-inch/hour per Sq Ft / °F.

– All refrigerant connections between outdoor and indoor units shall be flare type.

2.1.4 Compressor:

- The compressor shall be a high performance, hermetic, inverter driven, variable speed, dual rotary type.

– The compressor motor shall be direct current (DC) type equipped with a factory supplied and installed inverter drive package.

– The outdoor unit shall be equipped with a suction side refrigerant accumulator.

– The compressor will be equipped with an internal thermal overload.

– The compressor shall be mounted to avoid the transmission of vibration.

2.1.5 Electrical:

- The outdoor unit electrical power shall be 208/230 volts, 1-phase, 60 hertz.

– The outdoor unit shall be controlled by the microprocessors located in the indoor unit and communicating digitally with microprocessors in the outdoor unit.

2.2 Indoor Units – AIR HANDLING UNIT

- 2.2.1 Indoor unit shall be a horizontal multi positional air handling unit with ECM motor type fan with auto CFM adjustment, for installation within a conditioned space. The unit shall have an end discharge air. The unit shall be suspended with sprin isolators from supports across the OWSJ.
- 2.2.2 Units shall have a width and depth of approx 22".
- 2.2.3
- 2.2.4 The cabinet shall be constructed with sound absorbing, foil-faced insulation to control air leakage.
- 2.2.5 The fan shall have a variable speed direct drive ECM type fan with statically and dynamically balanced impeller with 3 user-selectable fan speeds. The automatic fan speed mode shall allow the fan to vary between 5 speeds based on space load. The ECM controller shall continuously and automatically adjust to varying external static pressure on the system.
- 2.2.6 Units shall be equipped with refrigerant leak detector for R-454B
- 2.2.7 Unit shall be provided with a standard filter.
- 2.2.8 Power to be 208-1-60.

2.3 Equipment Controls:

- The control system shall consist of a minimum of one microprocessor on each indoor unit and one in the outdoor unit. The microprocessor located in the indoor unit shall have the capability of monitoring return air temperature and indoor coil temperature, receiving and processing commands from the wired controller, providing emergency operation and controlling the outdoor unit.

– The system shall be capable of automatic restart when power is restored after power interruption. The system shall have self-diagnostics ability, including total hours of compressor run time. Diagnostics codes for indoor and outdoor units shall be displayed on the wired controller panel.
- 2.4 Wired Remote Controllers
- The Wired Remote Controller shall have a LCD display. There shall be a built-in weekly timer. The controller shall have a built-in temperature sensor. Temperature shall be displayed in either Fahrenheit (°F) or Celsius (°C), and Temperature changes shall be by increments of 1°F (0.5°C).

– Field wiring shall run directly from the indoor unit to the wired controller with no splices. The voltage to the wired controller from the indoor unit shall be 12 VDC. Up to two wired controllers shall be able to be used to control one unit.

– A BMS gateway shall be provided with the units for control and monitoring by the school's Johnson Controls BMS.

EXECUTION

- 3.1 Install equipment where shown on drawings according to manufacturer's recommendations and performed by an approved manufacturer's contractor. Units shall be mounted straight and level, aligned with structure, for a neat and workmanlike arrangement.
- 3.2 Power wiring and disconnects shall be provided by Division 16. All power wiring by Division 16. All control wiring is by Division 15 and will be less than 50V. Refer to and follow the manufacturer's wiring requirements.
- 3.3 Provide a condensate pump equal to Little Giant VCM2A20ULS. Pipe 3/4" pvc drain line from the indoor unit to nearest drain in washrooms where indicated.
- 3.4 Install wall mounted controller in location indicated. Mounting height to meet barrier free requirements (44").
- 3.5 Route refrigerant tubing to condenser location outside and insulate with foam rubber. Size lines according to manufacturer. Contractor to verify installation distances meet manufacturer's requirements. Purge with nitrogen while welding. Firestop the penetrations at fire rated corridor walls.
- 3.6 Mount outside heat pump on a 18" raised stand.
- 3.7 Configure unit controllers to suit the school's schedule.
- 3.8 Start-up the systems, and demonstrate the units to the Owner.
- 3.9 Before start-up Contractor to provide documentation to consultant showing the installation requirements for R-454B are met. Refer to manufacturer's installation manual.

15802 REFRIGERANT SYSTEMS

- 1.1 Completed refrigeration systems must meet the requirements of ANSI B16.22 Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings, ANSI B31.5, Refrigeration Piping, ASME Sec VIII, Boiler and Pressure Vessel Code for unfired vessels, ANSI ASHRAE 15 Safety Code for Mechanical Refrigeration, ASTM B280 Seamless Copper Tube for Air Conditioning and Refrigeration Field Service. Meet applicable codes for R-454B refrigerant.
- 1.2 Install systems as per the manufacturer's requirements.
- 1.3 Co-ordinate layout and installation of tubing with other trades.
- 1.4 Support tubing 3/8" and under every 4'-0" and larger than 1/2" diameter every 6'-0".
- 1.5 Use plastic coated straps on copper tubes.
- 1.6 Insulate suction and liquid lines as per Section 15300.
- 1.7 All outside exposed refrigeration piping to be insulated and covered neatly with PVC jacketing.
- 1.8 Seal all penetrations through fire separations (corridor walls and mechanical room walls) to Code and ULC requirements. Use fire proof caulking equal to Hilti FS-1.

DRAWING LIST – MECHANICAL

- M1

M2

M3

M4

M5

M6
- TITLE AND SPECIFICATIONS

SCHEDULES

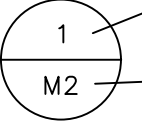
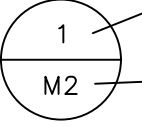
DEMOLITION PLANS

HVAC PLANS

HVAC DETAILS

REFLECTED CEILING PLAN

GENERAL NOTES

1.  PLAN, SECTION OR DETAIL NUMBER
-  DRAWING WHERE DETAILED
(– MEANS THIS DRAWING)

2. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES AND INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

LOCATION AND SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.

UNLESS NOTED OTHERWISE, DIMENSIONS ARE IN IMPERIAL UNITS.

LEGEND

- EX

24x24

260
- EX = EXISTING SUPPLY OR RETURN

G_ = NEW GRILLE AS PER SCHEDULE

D_ = NEW DIFFUSER AS PER SCHEDULE

SIZE

AIRFLOW, CFM

–	–	–	–	–
–	–	–	–	–
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P2	JAN 26 26	FOR REVIEW	AB	–
Rev.	Date	Description	By	App.

NOVADYNE

269 North Indian Road

Tel: (705) 696-2119

Hastings, ON, Canada

K0L 1Y0

REGISTERED PROFESSIONAL ENGINEER

A.G.BUCHKOWSKI

FEB 6, 2026

PROVINCE OF ONTARIO

MECHANICAL

DWN.

AB

JAN 2026

CHK.

DSN.

A. BUCHKOWSKI

JAN 2026

SCALE:

AS NOTED

CLIENT

Peterborough Victoria
Northumberland and Clarington
Catholic District School Board

PROJECT

ST. PAUL CES

OFFICE & LIBRARY RENOVATION

1101 Hilliard St, Peterborough, ON

TITLE

TITLE & SPECIFICATIONS

FILE No.

0667-M1

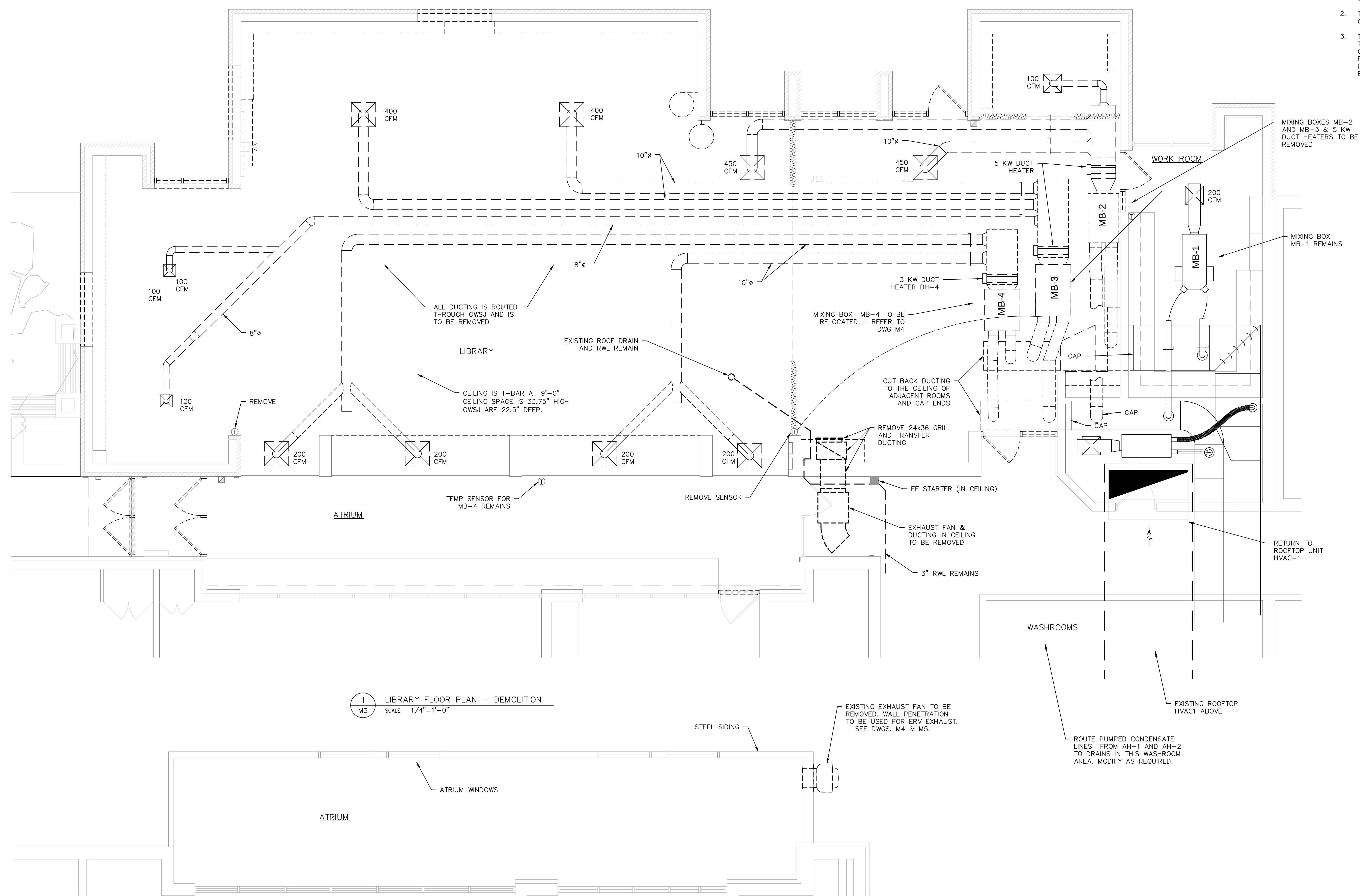
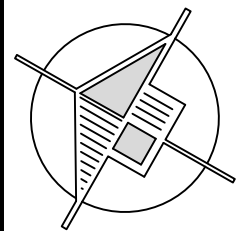
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Rev. No.

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1 LIBRARY FLOOR PLAN — DEMOLITION
SCALE: 1/4"=1'-0"

2 ATRIUM CEILING PLAN — DEMOLITION
SCALE: 1/4"=1'-0"

- NOTES**
1. THE NORTH WING OF THE SCHOOL IS SERVED BY A ROOFTOP GAS FIRED UNIT HVAC1. THE SYSTEM IS A DUAL DUCT SYSTEM WITH A HOT DUCT AND A COLD DUCT FEEDING NUMEROUS MIXING BOXES THROUGHOUT. THE HEAT IS FROM A GAS FIRED HEAT EXCHANGER, THE COLD IS OUTDOOR AIR. THE TOTAL CAPACITY OF THE UNIT IS 10,000 CFM.
 2. THE MIXING BOXES BLEND HOT AND COLD AIR. THEY ARE CONTROLLED BY THE SCHOOL'S JOHNSON CONTROLS BMS.
 3. THE PROJECT INVOLVES INSTALLING TWO VRF HEAT PUMPS FOR THE LIBRARY AND OFFICE. THESE SPACES WILL BE TAKEN OFF OF HVAC1 AND RESULT IN A DECREASE OF 2000 CFM. AS PART OF THE PROJECT, THE AIR BALANCE CONTRACTOR SHALL REDUC TO AIR FLOW OF HVAC1 TO 8000 CFM. A PREVIOUS AIR BALANCE REPORT WILL BE PROVIDED.

Rev.	Date	Description	By	App.
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P2	JAN 26 26	FOR REVIEW	AB	—

NOVADYNE
269 North Indian Road Tel: (705) 696-2119
Hastings, ON, Canada
K0L 1Y0

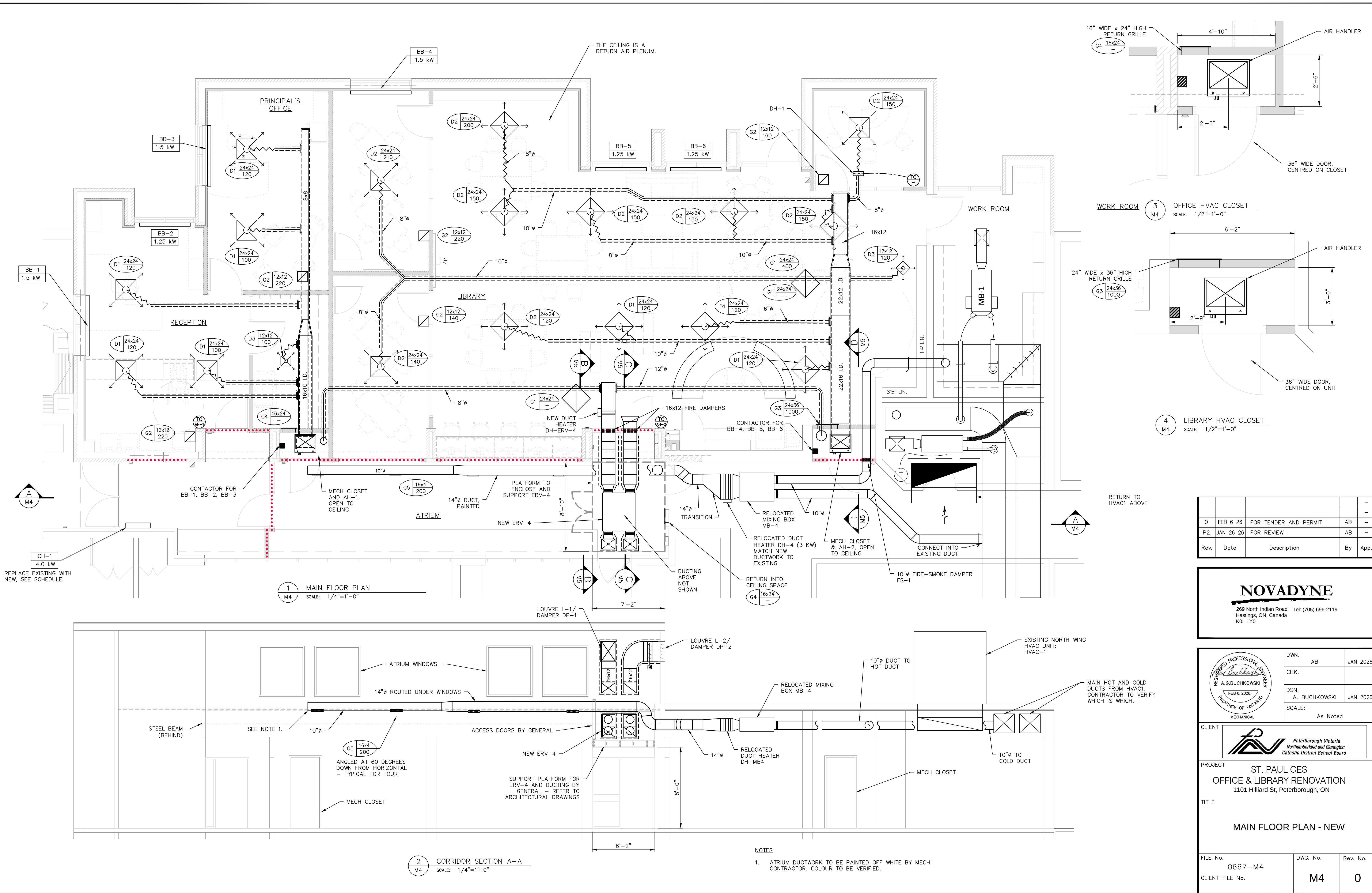
DWN.	AB	JAN 2026
CHK.		
DSN.	A. BUCHKOWSKI	JAN 2026
SCALE:	As Noted	

CLIENT

PROJECT
ST. PAUL CES
OFFICE & LIBRARY RENOVATION
1101 Hilliard St, Peterborough, ON

TITLE
LIBRARY FLOOR PLAN
- DEMOLITION

FILE No.	DWG. No.	Rev. No.
0667-M3	M3	0
CLIENT FILE No.		



Rev.	Date	Description	By	App.
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P2	JAN 26 26	FOR REVIEW	AB	-

NOVADYNE
269 North Indian Road Tel: (705) 696-2119
Hastings, ON, Canada
K0L 1Y0

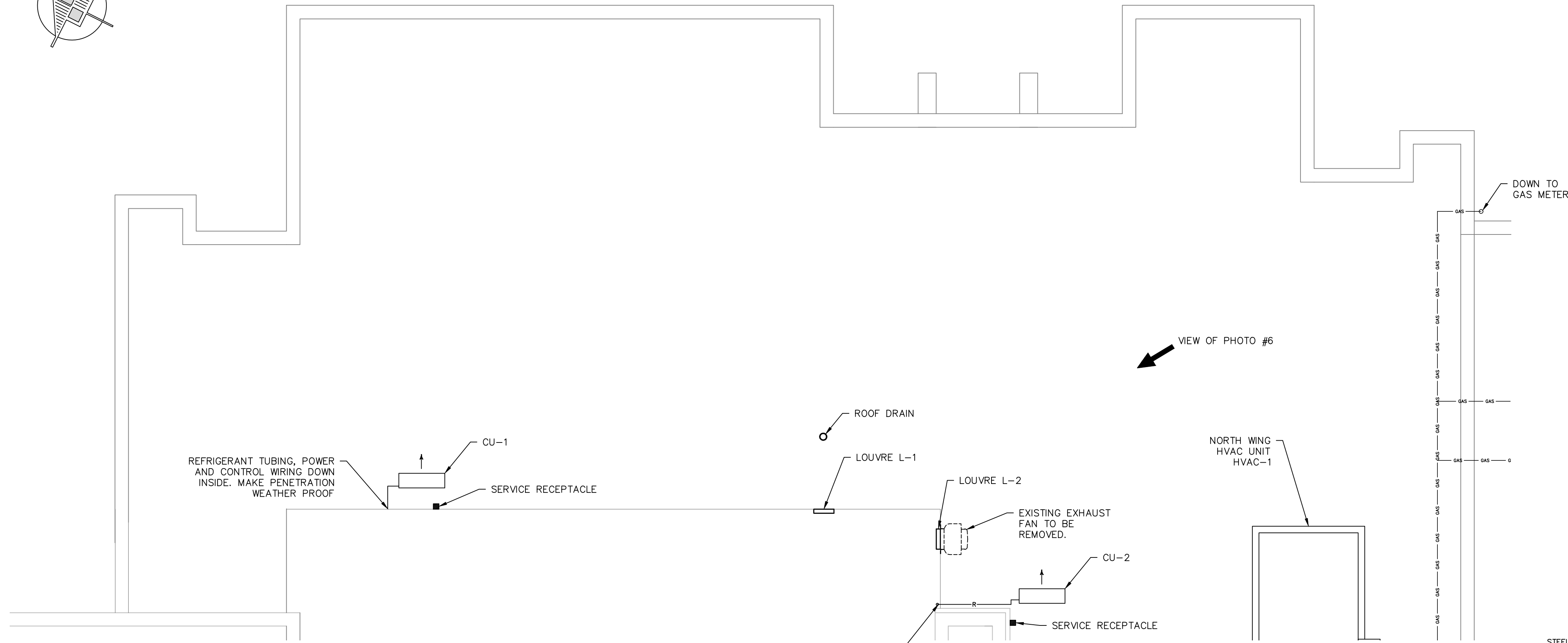
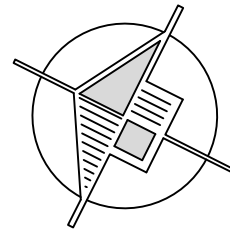
	DWN.	AB	JAN 2026
	CHK.		
	DSN.	A. BUCHKOWSKI	JAN 2026
	SCALE:	As Noted	

CLIENT Peterborough Victoria Northumberland and Clarington Catholic District School Board

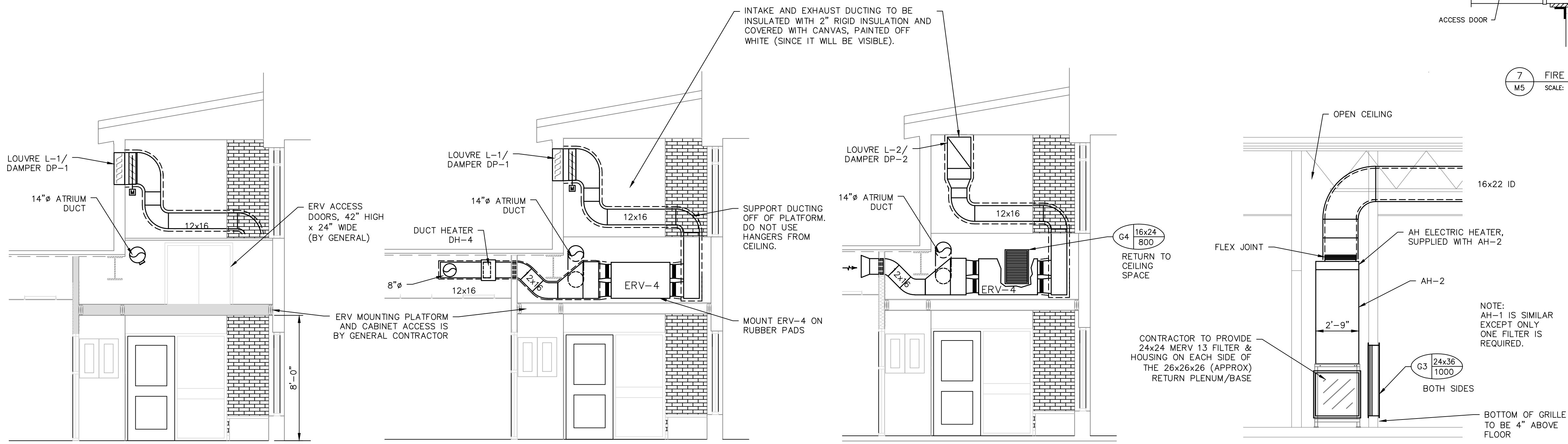
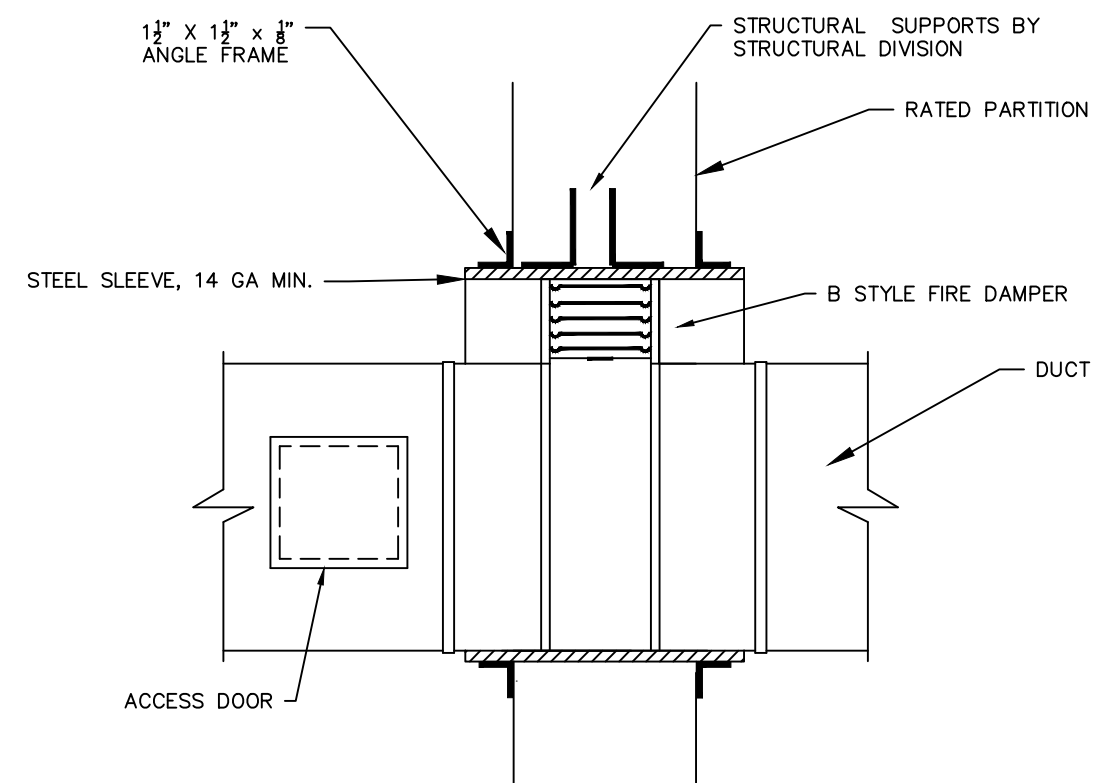
PROJECT **ST. PAUL CES
OFFICE & LIBRARY RENOVATION**
1101 Hilliard St, Peterborough, ON

TITLE **MAIN FLOOR PLAN - NEW**

FILE No.	DWG. No.	Rev. No.
0667-M4	M4	0
CLIENT FILE No.		



6 PHOTO OF ATRIUM WALL & EXHAUST FAN
SCALE: NTS



Rev.	Date	Description	By	App.
0	FEB 6 26	FOR TENDER AND PERMIT	AB	—
P2	JAN 26 26	FOR REVIEW	AB	—

NOVADYNE
269 North Indian Road Tel: (705) 696-2119
Hastings, ON, Canada
K0L 1Y0

REGISTERED PROFESSIONAL ENGINEER
A.G. BUCHKOWSKI
FEB 6, 2026
MECHANICAL
PROVINCE OF ONTARIO

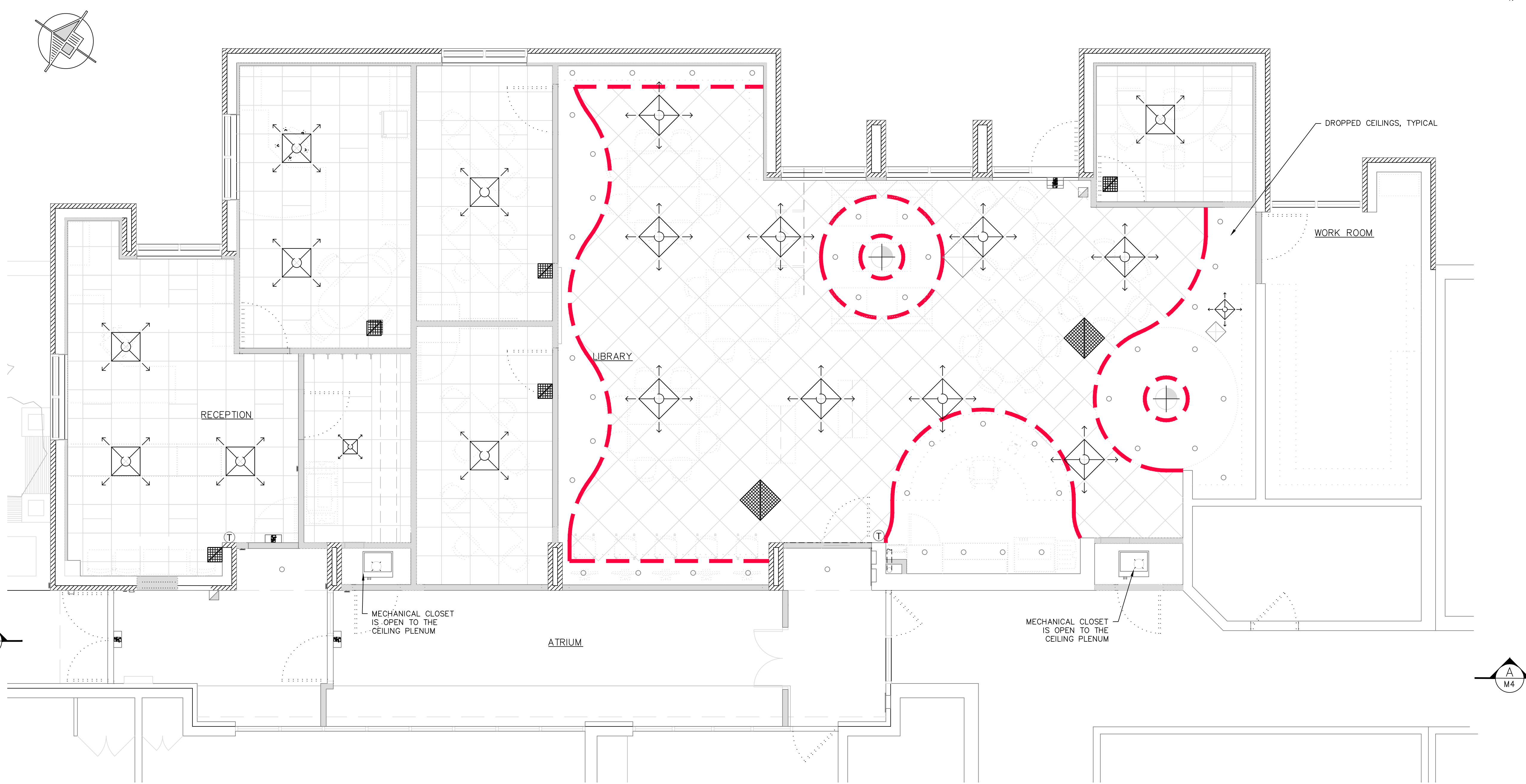
DWN. AB JAN 2026
CHK.
DSN. A. BUCHKOWSKI JAN 2026
SCALE: As Noted

CLIENT
**Peterborough Victoria
Northumberland and Clarington
Catholic District School Board**

PROJECT
**ST. PAUL CES
OFFICE & LIBRARY RENOVATION
1101 Hilliard St, Peterborough, ON**

TITLE
HVAC DETAILS

FILE No. 0667-M5	DWG. No. M5	Rev. No. 0
CLIENT FILE No.		



- NOTES
1. T-BAR CEILINGS ARE 9'-0" FROM THE FINISHED FLOOR. DROPPED CEILINGS AND BULKHEADS ARE LOWER: REFER TO ARCHITECTURAL DRAWINGS.

1 REFLECTED CEILING PLAN
M6 SCALE: 1/4"=1'-0"

				-
0	FEB 6 26	FOR TENDER AND PERMIT	AB	-
P2	JAN 26 26	FOR REVIEW	AB	-
Rev.	Date	Description	By	App.

NOVADYNE
269 North Indian Road Tel: (705) 696-2119
Hastings, ON, Canada
K0L 1Y0

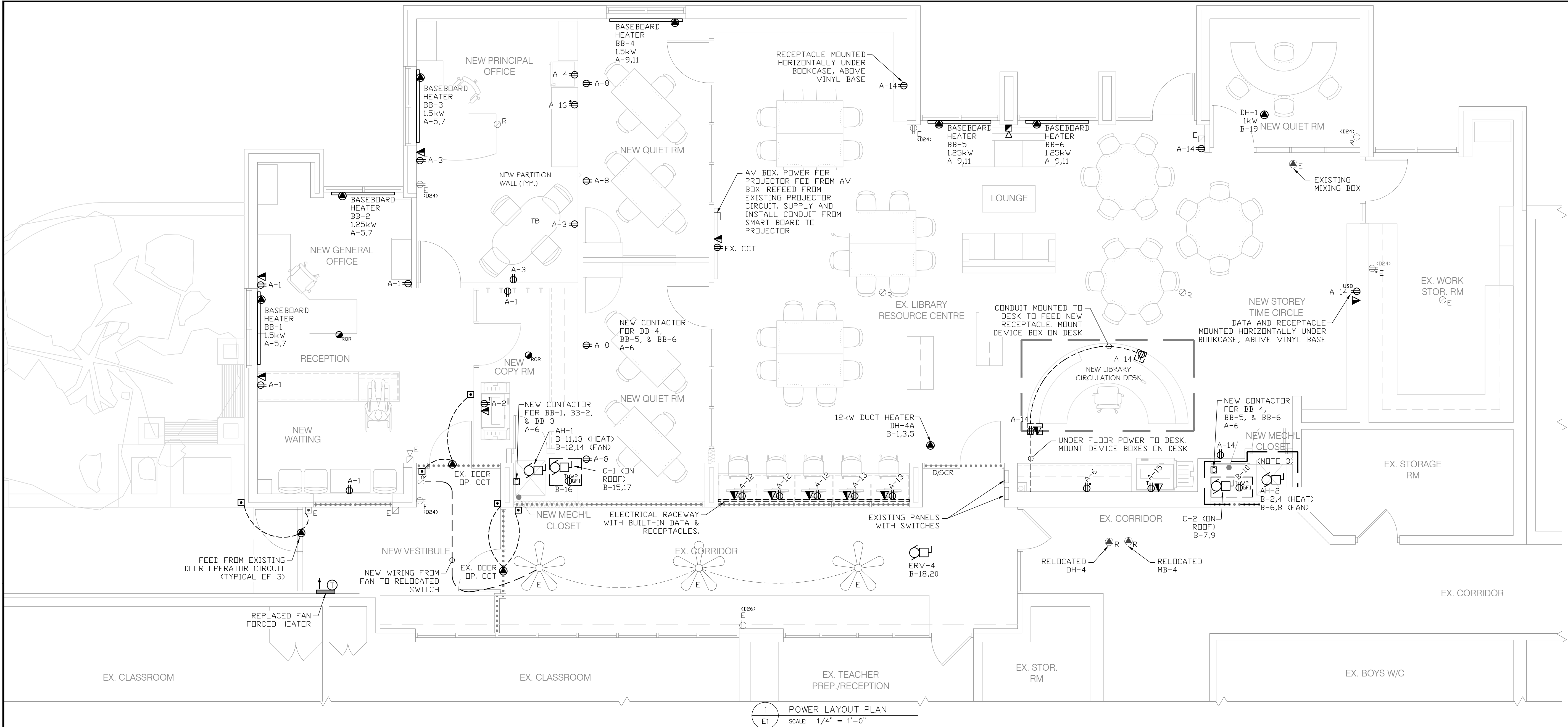
	DWN.	AB	JAN 2026
	CHK.		
	DSN.	A. BUCHKOWSKI	JAN 2026
	SCALE:	As Noted	

CLIENT

PROJECT **ST. PAUL CES
OFFICE & LIBRARY RENOVATION**
1101 Hilliard St, Peterborough, ON

TITLE **REFLECTED CEILING PLAN**

FILE No.	0667-M6	DWG. No.	M6	Rev. No.	0
CLIENT FILE No.	0				



FIRE ALARM LEGEND	
	EXISTING PULL STATION
	EXISTING FIRE ALARM BELL
	NEW FIRE ALARM BELL
	EXISTING HEAT DETECTOR
	NEW RATE OF RISE HEAT DETECTOR

POWER LEGEND	
	DIRECT CONNECTION
	MOTOR RATED SWITCH
	SINGLE PHASE MOTOR
	POWER DOOR OPERATOR
	DATA/PHONE OUTLET
	EXISTING
	RELOCATED

RECEPTACLE LEGEND	
	RECEPTACLE
	MOUNTED ABOVE COUNTER
	20A T-SLOT
	EXISTING
	RELOCATED

- NOTES:
- RE-INSTALL WIRELESS/INTERNET DEVICES IN NEW CEILING.
 - CONNECT NEW FIRE ALARM DEVICES TO EXISTING FLOOR ZONE.
 - CONNECT MB-4 SMOKE DAMPER TO FIRE ALARM DN NEW ZONE.

Rev.	Date	Description	By	App.
0	26/02/06	ISSUED FOR PERMIT & TENDER	PGB	—

CIRCUITING NOTES:

ALL CIRCUITS SHOWN ARE FOR REFERENCE PURPOSES ONLY. NEW CIRCUITS SHALL BE INSTALLED IN NEAREST PANEL AND WHERE SPACE PERMITS. USE SPARE BREAKER IF POSSIBLE AND PROVIDE NEW BREAKERS ONLY AS REQUIRED. CONTRACTOR SHALL TRY AND FEED CIRCUITS FROM EXISTING MECHANICAL PANELS.

PANEL 'A'

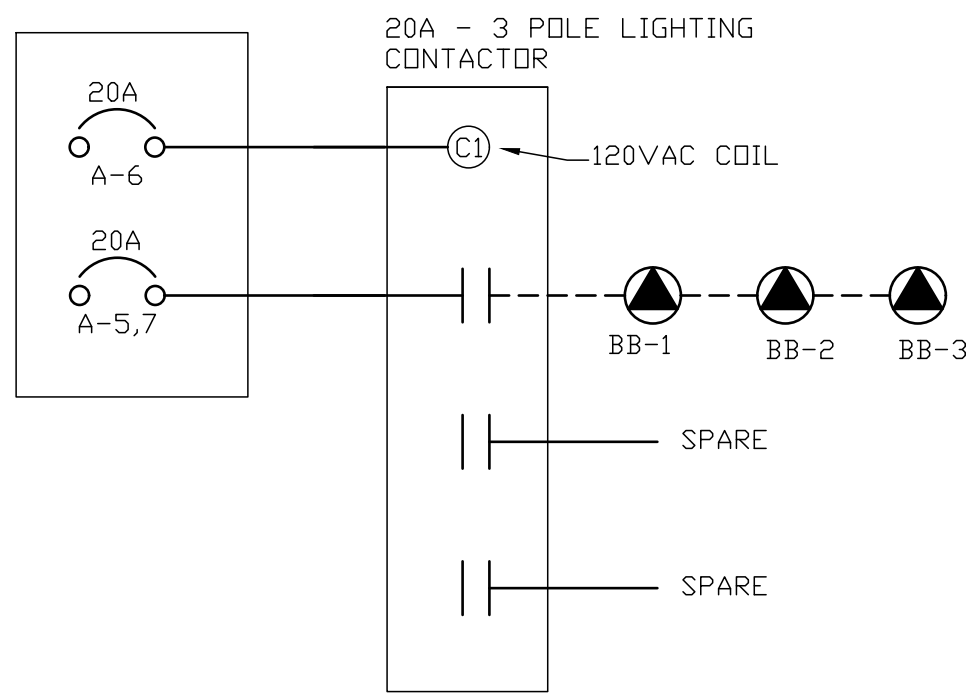
- CIRCUIT A-1 INSTALL NEW 1-POLE, 120V, 15A BREAKER: GENERAL OFFICE RECEPTACLES
- CIRCUIT A-2 INSTALL NEW 1-POLE, 120V, 20A BREAKER: PHOTOCOPIER RECEPTACLE
- CIRCUIT A-3 INSTALL NEW 1-POLE, 120V, 15A BREAKER: PRINCIPAL'S OFFICE MINI FRIDGE
- CIRCUIT A-4 INSTALL NEW 1-POLE, 120V, 15A BREAKER: PRINCIPAL'S OFFICE MINI FRIDGE
- CIRCUIT A-5,7 INSTALL NEW 2-POLE, 208V, 20A BREAKER: BB-1, BB-2 AND BB-3
- CIRCUIT A-6 INSTALL NEW 1-POLE, 120V, 20A BREAKER: LIBRARY COUNTER RECEPTACLE
- CIRCUIT A-8 INSTALL NEW 1-POLE, 120V, 15A BREAKER: QUIET ROOM RECEPTACLES
- CIRCUIT A-9,11 INSTALL NEW 2-POLE, 208V, 20A BREAKER: BB-4, BB-5, BB-6
- CIRCUIT A-10 INSTALL NEW 1-POLE, 120V, 20A BREAKER: BASEBOARD HEATERS 4, 5, 6 CONTACTOR
- CIRCUIT A-12 INSTALL NEW 1-POLE, 120V, 15A BREAKER: COMPUTER TERMINAL RECEPTACLES
- CIRCUIT A-13 INSTALL NEW 1-POLE, 120V, 15A BREAKER: COMPUTER TERMINAL RECEPTACLES
- CIRCUIT A-14 INSTALL NEW 1-POLE, 120V, 15A BREAKER: LIBRARY RECEPTACLES
- CIRCUIT A-15 INSTALL NEW 1-POLE, 120V, 20A BREAKER: LIBRARY PHOTOCOPIER RECEPTACLE
- CIRCUIT A-16 INSTALL NEW 1-POLE, 120V, 20A BREAKER: PRINCIPAL OFFICE CREDENZA RECEPTACLE
- CIRCUIT A-17 INSTALL NEW 1-POLE, 120V, 15A BREAKER: OFFICE/QUIET ROOM LIGHTING
- CIRCUIT A-18 INSTALL NEW 1-POLE, 120V, 15A BREAKER: LIBRARY LIGHTING

PANEL 'B'

- CIRCUIT B-1,3,5 INSTALL NEW 3-POLE, 208V, 50A BREAKER: DH-4A
- CIRCUIT B-2,4 INSTALL NEW 2-POLE, 208V, 40A BREAKER: AH-2 (HEAT)
- CIRCUIT B-6,8 INSTALL NEW 2-POLE, 208V, 15A BREAKER: AH-2 (FAN)
- CIRCUIT B-7,9 INSTALL NEW 2-POLE, 208V, 30A BREAKER: C-2
- CIRCUIT B-10 INSTALL NEW 1-POLE, 120V, 20A BREAKER: C-2 T-SLOT, WP, GF1 REC.
- CIRCUIT B-11,13 INSTALL NEW 2-POLE, 208V, 15A BREAKER: AH-1 (HEAT)
- CIRCUIT B-12,14 INSTALL NEW 2-POLE, 208V, 15A BREAKER: AH-1 (FAN)
- CIRCUIT B-15,17 INSTALL NEW 2-POLE, 208V, 30A BREAKER: C-1
- CIRCUIT B-16 INSTALL NEW 1-POLE, 120V, 20A BREAKER: C-2 T-SLOT, WP, GF1 REC.
- CIRCUIT B-18,20 INSTALL NEW 1-POLE, 120V, 15A BREAKER: ERV-4
- CIRCUIT B-19 INSTALL NEW 1-POLE, 120V, 15A BREAKER: DH-1

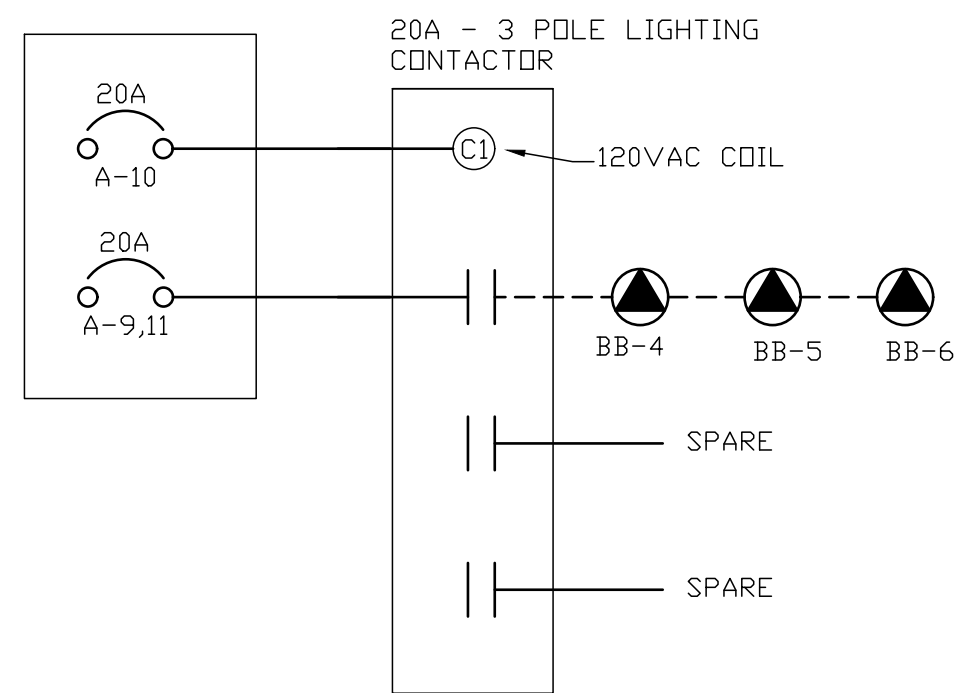
COMPUTER STATION STEEL RACEWAY SYSTEM

MODEL NUMBER	MANUFACT.	DESCRIPTION
BASE: V4000B-10 COVER: V4000C DIVIDER: G4000D, c/w DIVIDER CLIPS DIVIDER CLIPS: 40010A COUPLING (GALVANIZED STEEL PLATED): 4001A BLANK END: V4010B DIVIDED ENTRANCE END FITTING: V4010FO TWO-GANG OVERLAPPING COVER DUPLEX & MODULAR FURNITURE: V4047BF	LEGRAND WIEMOLD	GALVANIZED RACEWAY SYSTEM, c/w ALL PARTS AS REQUIRED FOR A COMPLETE SYSTEM. RUN LENGTH OF RACEWAY SYSTEM IS ~14'. RACEWAY SYSTEM SHALL INCLUDE A GALVANIZED STEEL BASE, COVER AND DIVIDER (c/w DIVIDER CLIPS), COUPLINGS, BLANK ENDS, DIVIDE ENTRANCE END FITTING, AND TWO GANG OVER FOR DUPLEX & MODULAR FURNITURE. FOR 15A & 20A DUPLEX RECEPTACLES, INCLUDES TWO KEYSTONE TWISTOUTS



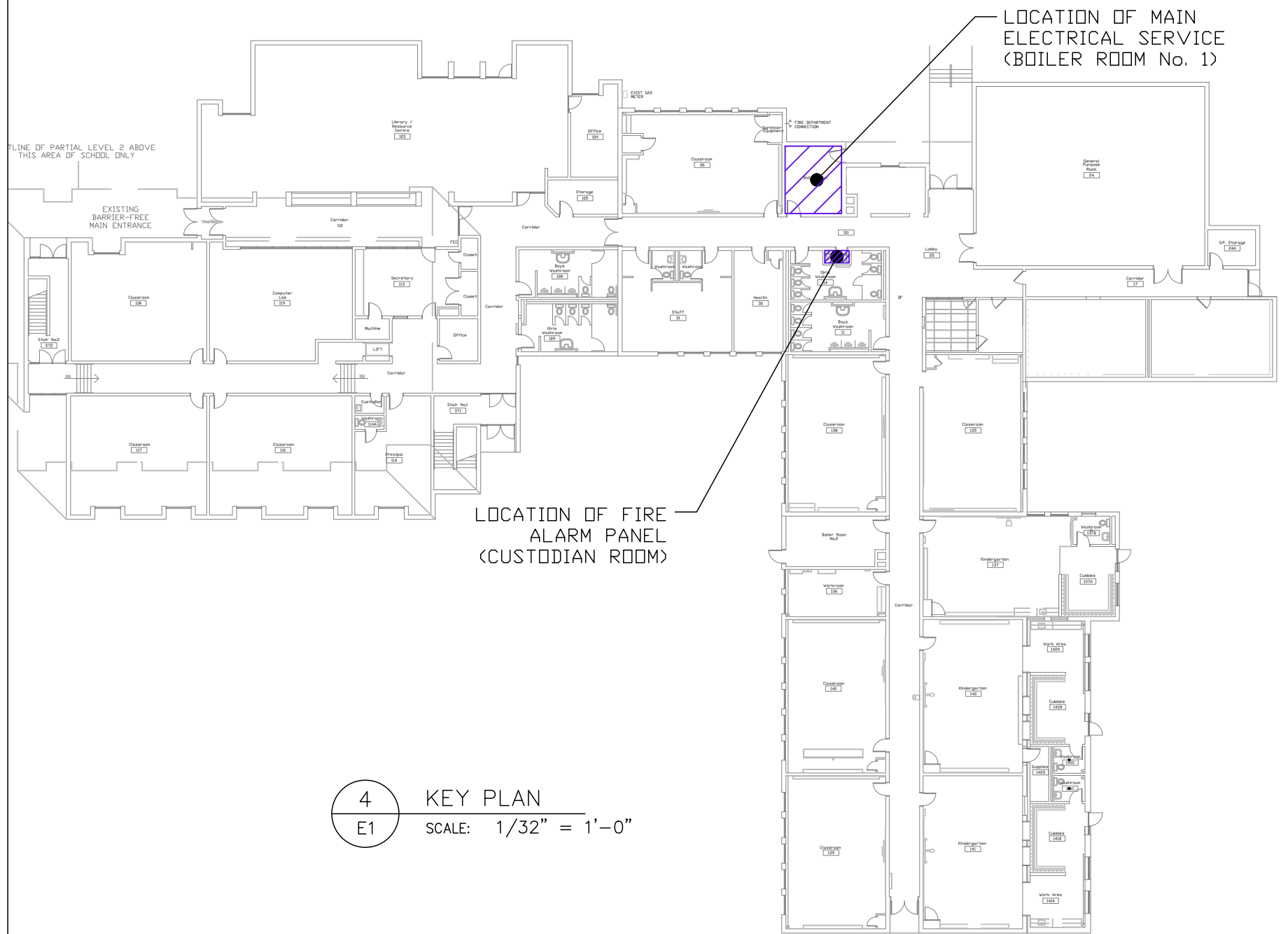
2 CONTACTOR DETAIL - BB-1, BB-2, BB-3
SCALE: N.T.S.

NOTE: CONTRACTOR TO SUPPLY ENOUGH RELAYS TO BASEBOARD HEATING CIRCUITS AND AT LEAST TWO SPARES



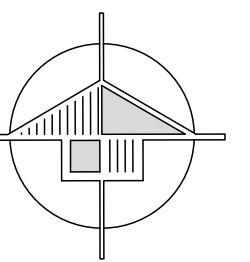
3 CONTACTOR DETAIL - BB-4, BB-5, BB-6
SCALE: N.T.S.

NOTE: CONTRACTOR TO SUPPLY ENOUGH RELAYS TO BASEBOARD HEATING CIRCUITS AND AT LEAST TWO SPARES



4 KEY PLAN
SCALE: 1/32" = 1'-0"

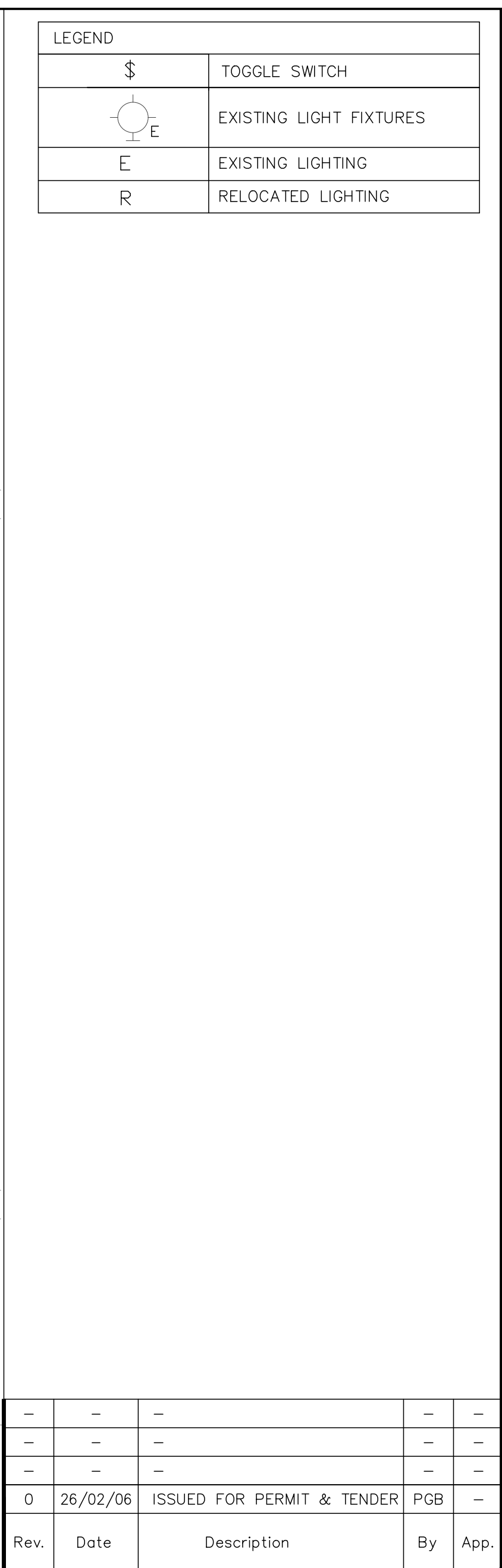
BERTHELOT ENGINEERING LTD
2193 Lynhaven Rd.,
Peterborough, ON.
K9K 1W8
Email: pberthelot@bertheloteng.com

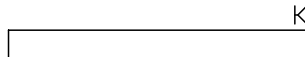
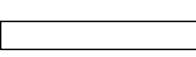
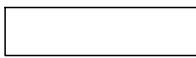


PROJECT **ST. PAUL CES OFFICE & LIBRARY RENOVATION**
1101 Hiliard Street
Peterborough, Ontario

TITLE **POWER LAYOUT PLAN**

FILE No. 799 DWG. No. **E1**



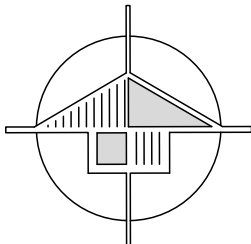
LIGHTING SCHEDULE			
SYMBOL	MODEL NUMBER	MANUFACTURER	DESCRIPTION
 A	9004-30-60WLED- L-40K-120-SN-OP- DML	TMS LIGHTING OR APPROVED EQUAL	PHOENIX 4 BOWL STYLE PENDANT FIXTURE, 30", 90 CRI, 4000K, 6200 LUMENS (60W), LOW LEVEL LUMEN OUTPUT (50%), SATIN NICKEL FINISH, OPAL-WHITE ACRYLIC DIFFUSER, 0-10V DIMMING, OVERALL HEIGHT SHOULD BE 24". EITHER FIELD CUT STEM, OR CUSTOM ORDER.
 B	SMX4RLSFS010 C/W 4" COMPATIBLE HOUSING	COOPER-HALO OR APPROVED EQUAL	4" SURFACE LED DOWNLIGHT, 90CRI, 120V, WHITE, SET TO 4000K, SET TO 650 LUMENS (6.94W), 0-10V DIMMING
 C	SMX4RLSFS010 C/W 4" COMPATIBLE HOUSING	COOPER-HALO OR APPROVED EQUAL	4" SURFACE LED DOWNLIGHT, 90CRI, 120V, WHITE, SET TO 4000K, SET TO 1000 LUMENS (11.45W), 0-10V DIMMING
 D	HC610D010- HM60525840-61WDWB	COOPER HALO OR APPROVED EQUAL	6" RECESSED DOWNLIGHT, 1000 LUMENS (28.6W), 80 CRI, 4000K, WIDE BEAM ANGLE, WHITE BAFFLE
 F	22FP2140C	COOPER-METALUX OR APPROVED EQUAL	2'x2' LED FLAT PANEL, 2494 LUMENS (20.7W), 4000K, 120V
 G	22FP3240C	COOPER-METALUX OR APPROVED EQUAL	2'x2' LED FLAT PANEL, 3307 LUMENS (29.2W), 4000K, 120V
 H	22FP4240C	COOPER-METALUX OR APPROVED EQUAL	2'x2' LED FLAT PANEL, 4330 LUMENS (38.3W), 4000K, 120V
 J	HC630D010- HM60525840-61WDWB	COOPER HALO OR APPROVED EQUAL	6" RECESSED DOWNLIGHT, 3000 LUMENS (28.6W), 80 CRI, 4000K, WIDE BEAM ANGLE, WHITE BAFFLE
 K	HU30M-SCTD-48-P	COOPER HALO OR APPROVED EQUAL	48" MODULAR UNDERCABINET LED FIXTURE, 1275 LUMENS (17.3W), SET TO 4000K, WHITE IN COLOUR
 L	HU30M-SCTD-36-P	COOPER HALO OR APPROVED EQUAL	36" MODULAR UNDERCABINET LED FIXTURE, 915 LUMENS (12.7W), SET TO 4000K, WHITE IN COLOUR
 M	14FP4240C c/w Dr-14W-U	COOPER - METALUX	1'x4' SURFACE MOUNTED FLAT PANEL LED LUMINAIRE, 4226 LUMENS (38.6W), 4000K, 120V c/w DRYWALL FRAME KIT

2
E2

ENLARGED LIBRARY CABINET LIGHTING LAYOUT PLAN

SCALE: 1/2" = 1'-0"

BERTHELOT
ENGINEERING LTD
2193 Lynnhaven Rd., Tel: (705) 775-1517
Peterborough, ON.
K9K 1W8
Email: pberthelot@bertheloteng.com

	DWN. T. ST. JEAN
	CHK. P. BERTHELOT
	DSN. PGB/TMS
	SCALE: AS NOTED
	
PROJECT ST. PAUL CES OFFICE & LIBRARY RENOVATION 1101 Hilliard Street Peterborough, Ontario	
TITLE LIGHTING LAYOUT PLAN	
FILE No. 799	DWG. No. E2

