

STEPHEN G. SAYWELL PUBLIC SCHOOL

OSHAWA, ONTARIO

THE DURHAM DISTRICT SCHOOL BOARD

CLIENT

SUSAN FRIEDRICH ARCHITECT INC.

ARCHITECTS

LEA CONSULTING LTD.

STRUCTURAL ENGINEERS

CIMA+

MECHANICAL AND ELECTRICAL ENGINEERS

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2	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1
T25-10

Title: TITLE PAGE

Scale: As Noted	Date: JAN 2 2025	Drawing: A001
Project: 24-50	Drawn By:	

DATE PLOTTED: JAN 31 2025

• PLOT SCALE: 1/4" = 1'-0" SHEET SIZE READ DRAWINGS ACCORDINGLY
• PLOT SCALE: 1/2" = 1'-0" SHEET SIZE READ DRAWINGS ACCORDINGLY

STANDARD ABBREVIATIONS

MANY WORDS OR EXPRESSIONS THAT ARE REPEATED FREQUENTLY ON THE DRAWINGS ARE ABBREVIATED TO REDUCE THE AMOUNT OF WORDING THAT MIGHT ABSORB THE DETAILING. TO AVOID MISINTERPRETATION, THESE ABBREVIATIONS ARE LISTED, WITH THEIR FULL MEANING, IN THIS SECTION.

- REFER ALSO TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR OTHER ABBREVIATIONS USED IN MECHANICAL AND ELECTRICAL DOCUMENTS.
- ABBREVIATIONS NOT LISTED HERE MAY BE USED IN TECHNICAL SECTIONS OF THE SPECIFICATIONS AND ARE DEFINED IN THE SPECIFICATION SECTIONS WHERE THEY ARE USED.

<p>AB — anchor bolt</p> <p>ABV — above</p> <p>A/C — air conditioning</p> <p>ACT — Acoustic tile</p> <p>ACOUST — acoustic</p> <p>AQT — fiberock aqua tough</p> <p>AFF — above finished floor</p> <p>AGG — aggregate</p> <p>ALUM, AL — aluminium</p> <p>ANOD — anodized</p> <p>AP — acoustic panel</p> <p>ASPH — asphalt</p> <p>AVB, A/VB — air/vapour barrier</p> <p>BO — board</p> <p>BE — baked enamel</p> <p>BH — bulkhead</p> <p>BLDG — building</p> <p>BLK — block</p> <p>BLKG — blocking</p> <p>BM — bench mark or beam</p> <p>BOT — bottom</p> <p>BR — brick</p> <p>BS, B/S — both sides</p> <p>BSMT — basement</p> <p>BU — built-up</p> <p>BUR — built-up roofing</p> <p>CA — cash allowance</p> <p>CAB — cabinet</p> <p>CAR — carpet</p> <p>CART — carpet tile</p> <p>CB — catch basin or conc. block or chalkboard</p> <p>C/C — centre to centre</p> <p>CEM — cement</p> <p>CH — coat hook</p> <p>CJ — control joint</p> <p>C JT — construction joint</p> <p>CL — centre line</p> <p>CLG — ceiling</p> <p>CLNG — ceiling</p> <p>CLK — clock(ing)</p> <p>CLOS — closet</p> <p>CMT — ceramic mosaic tile</p> <p>CO — cleanout</p> <p>COL — column</p> <p>CONC — concrete</p> <p>COND — conduit</p> <p>CONN — connect or connection</p> <p>CONST — construction</p> <p>CONV — convactor</p> <p>CP — control panel</p> <p>CPC — cement plaster ceiling</p> <p>CR — cold rolled channel</p> <p>CRS — courses</p> <p>CS — convenience shelf</p> <p>CSK — countersink</p> <p>CT — ceramic tile</p> <p>CTR — centre</p> <p>CW — cold water</p> <p>CWP — crystalline waterproofing</p> <p>CWT — ceramic wall tile</p> <p>DB1, DB2 — decorative block</p> <p>DET — detail</p> <p>DF — drinking fountain</p> <p>DG — door grille</p> <p>DGL — double glazed</p> <p>DIAM — diameter</p> <p>DM — dimension</p> <p>DIV — division</p> <p>DO — ditto</p> <p>DN — down</p> <p>DR — drain</p> <p>DS — downspout</p> <p>DWG — drawing</p> <p>EC — emergency call system</p> <p>ECT — electrical change table</p> <p>ELEC — electrical</p> <p>ELEV — elevator</p> <p>EMERG — emergency</p> <p>ENCL — enclosure</p> <p>EP — electrical panel</p> <p>EQ — equal</p> <p>EQUIP — equipment</p> <p>EW — electric water cooler</p> <p>EWP — exposed waterproofing membrane</p> <p>EXH — exhaust</p> <p>EXIST — existing</p> <p>EXP — exposed</p> <p>EX JT — expansion joint</p> <p>EXT — exterior</p> <p>FA — fire alarm</p> <p>FD — floor drain, or fire damper</p> <p>FN — foundation</p> <p>FE — fire extinguisher</p> <p>FEC — fire extinguisher cabinet</p> <p>FF — force flow heater</p> <p>F.F. — Finished floor</p>	<p>FGB — folding grab bar</p> <p>FGLAS — fiberglass</p> <p>FHC — fire hose cabinet</p> <p>FIN — finish or finished</p> <p>FIG — figure</p> <p>FL, FLR — floor</p> <p>FRG — fire proofing</p> <p>FRS — fire resistance rating</p> <p>FTG — footing</p> <p>FUT — future</p> <p>GA — gauge</p> <p>GALV — galvanized</p> <p>GB — grab bar</p> <p>GWB — gypsum board</p> <p>GWB-R — water resistant gypsum board</p> <p>GBBH — gypsum board bulkhead</p> <p>GL — glass</p> <p>GR — grade</p> <p>GRAN — granite or granular</p> <p>GRND — ground</p> <p>HB — hose bibb</p> <p>HD — hand dryer</p> <p>HDWR — hardware</p> <p>HM — hollow metal</p> <p>HMS — hollow metal screen</p> <p>HORIZ — horizontal</p> <p>HSH — handheld shower</p> <p>HR — hose</p> <p>HT — height</p> <p>HTR — heater</p> <p>HW — hot water</p> <p>IC — included in contract</p> <p>ID — inside dimensions</p> <p>INSUL — insulation or insulated</p> <p>INT — interior</p> <p>INV — invert</p> <p>J or JAN — janitor</p> <p>JT — joint</p> <p>KO — knockout</p> <p>LAM — laminate(s)</p> <p>LAP — lay-in acoustic panel</p> <p>LAT — lateral</p> <p>LAV — lavatory</p> <p>LH — left hand</p> <p>LFT — overhead lift track</p> <p>LS — light standard</p> <p>LSSJ — long-span steel joint</p> <p>LWB — lightweight concrete block</p> <p>M — metres</p> <p>MACH — machine</p> <p>MAT — mineral acoustic tile</p> <p>MAX — maximum</p> <p>MECH — mechanical</p> <p>MEL — melamine</p> <p>MET/MTL — metal</p> <p>MEMB — membrane</p> <p>MEZZ — mezzanine</p> <p>MFD — manufactured</p> <p>MFR — manufacture(r)/min. fire rating</p> <p>MG — make good</p> <p>MGMTE — make good to match existing</p> <p>MH — mephate</p> <p>MIR — mirror</p> <p>MIN — minimum</p> <p>MISC — miscellaneous</p> <p>MM — millimetres</p> <p>MO — masonry opening</p> <p>MRT — marble tile</p> <p>MR — moisture resistance</p> <p>MT — mosaic tile</p> <p>MTD — mounted</p> <p>N/A — not applicable</p> <p>NIC — not included in contract</p> <p>NO — number</p> <p>NOM — nominal</p> <p>NTS — not to scale</p> <p>OA — overall</p> <p>OC — on centre</p> <p>OD — outside dimension</p> <p>OGL — obscure glass</p> <p>OH — overhead</p> <p>OFS — overflow scuppers</p> <p>OPNG — opening</p> <p>OPP — opposite</p> <p>OWSJ — open-web steel joist</p> <p>PA — public address</p> <p>PA — B/F push button</p> <p>PB-1 — B/F push button — to lock</p> <p>PC or PCC — precast concrete</p> <p>PE — porcelain enamel</p> <p>PEP — porcelain enamel panel</p> <p>PERIM — perimeter</p> <p>PERF — perforate(s)</p> <p>PF — prefinished</p> <p>PL — plaster, plate, or properly line</p> <p>PLAM — plastic laminate</p> <p>PLT — plate</p> <p>PLSTR — plaster</p> <p>PLYWD — plywood</p> <p>PNL — panel</p> <p>PTD — paper towel dispenser</p> <p>PTN — partition</p>	<p>PT — porcelain tile</p> <p>QT — quarry tile</p> <p>R — resilient (base or flooring), receptacle riser, or radius</p> <p>RAD — radius, radiator</p> <p>RC — recessed connector</p> <p>RCB — rubber continuous base</p> <p>RD — roof drain</p> <p>REC — recessed</p> <p>RECP — receptacle</p> <p>REINF — reinforced</p> <p>REQ, REQ'D — required</p> <p>REV — revised or revision</p> <p>RFG — rigid fiberglass (insul.)</p> <p>RF — rubber flooring</p> <p>RESF — resilient sheet flooring</p> <p>RSF — rubber sports flooring</p> <p>RH — roof hopper</p> <p>RD — rough opening</p> <p>RP — receptacle panel</p> <p>RT — rubber tile</p> <p>RUB — rubber</p> <p>RWL — rainwater leader</p> <p>S — stain</p> <p>SAF — safety flooring</p> <p>SAN — sanitary</p> <p>SCA, SCB — special coating (Type A,B, etc.)</p> <p>SD — soap dispenser</p> <p>SECT — section</p> <p>SFPROG — sprayed fireproofing</p> <p>SGL — single glazed</p> <p>SIM — similar</p> <p>SND — sanitary napkin disposal</p> <p>SNV — sanitary napkin vendor/dispenser</p> <p>SPEC — specifications</p> <p>SFD — standard proctor density</p> <p>SF — sports surface flooring</p> <p>SQ — square</p> <p>SRC — semi-recessed connector</p> <p>SS — stainless steel, or slip sink</p> <p>ST or STL — steel</p> <p>STD — standard</p> <p>STM — storm</p> <p>STR or STRUC — structural</p> <p>SUSP — suspended</p> <p>SV — sheet vinyl flooring</p> <p>SW — switch</p> <p>SWBD — switchboard</p> <p>T — tread or terrazzo</p> <p>TB — tackboard</p> <p>T & G — tongued and grooved</p> <p>TD — toilet tissue dispenser</p> <p>TEL — telephone</p> <p>TER — terrazzo</p> <p>TM — tilted mirror</p> <p>TME — to match existing</p> <p>T/O — top of</p> <p>TP — telephone pole</p> <p>TRANSF — transformer</p> <p>TRR — temperature rise rating</p> <p>TSTAT — thermostat</p> <p>TT — terrazzo tile</p> <p>TYP — typical</p> <p>U — up</p> <p>UC — undercut</p> <p>U/F — unfinished</p> <p>UPD — underfloor duct</p> <p>UNO — unless noted otherwise</p> <p>U/P or UP — under painted</p> <p>V — varnish</p> <p>VAR — variable or varies</p> <p>VAT — vinyl asbestos tile</p> <p>VB — vapour barrier</p> <p>VCT — vinyl composition tile</p> <p>VENT — ventilated, ventilator or ventilation</p> <p>VERT — vertical</p> <p>VEST — vestibule</p> <p>VOL — volume</p> <p>VWP — vinyl wall panel</p> <p>VF — vinyl faced</p> <p>VT — vinyl tile</p> <p>WBLKG — wood blocking</p> <p>WD — wood</p> <p>WN — window</p> <p>WCW — window</p> <p>WP — waterproof</p> <p>WPF — waterproofing</p> <p>W/ — with</p> <p>WPG — wired glass glass</p> <p>WR — washroom</p>
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GENERAL NOTES

- ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT. DRAWINGS MUST NOT BE SCALED. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO PROCEEDING. DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK AFFECTED, FOR DIRECTION.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF THE ONTARIO BUILDING CODE LATEST EDITION AND THE OCCUPATIONAL HEALTH AND SAFETY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS. COMPLY WITH ALL MUNICIPAL REGULATIONS.
- CONFORM TO OWNERS GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- NOTIFY THE CONSULTANT PRIOR REMOVING ANY PORTION OF THE BUILDING THAT APPEARS TO BE STRUCTURAL REGARDLESS OF THE NOTATION ON THE DRAWINGS AND SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING BUILDINGS AND EQUIPMENT AND REPAIR SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT. REPAIR ALL EXISTING FINISHES, ADJACENT SURFACES, ETC. WHERE NEW WORK JOINS. PROTECT EXISTING FROM DAMAGE DURING WORK. REPAIR ANY DAMAGE THAT SHOULD OCCUR.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.

DEMOLITION NOTES

- ALL EXISTING ITEMS NOT INCORPORATED INTO THE REVISED LAYOUT TO BE REMOVED AND DISPOSED.
- DISPOSE OF MATERIALS IN LEGAL LANDFILL OR RECYCLING SITES IN ACCORDANCE WITH THE REGION OF YORK REGULATIONS.
- ALL EXISTING SURFACES AND PARTITIONS ETC. WHICH ARE TO REMAIN SHALL BE PROTECTED DURING DEMOLITION.
- MAKE GOOD ALL DISTURBED SURFACES, ADJACENT FLOORS, WALLS AND CEILINGS TO MATCH EXISTING AFTER COMPLETION OF WORK, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

- MAINTAIN ANY EXISTING FIRE RATED SEPARATIONS & ASSEMBLIES. MAKE GOOD ANY FIREPROOFING DISTURBED BY CONSTRUCTION.
- GENERAL CONTRACTOR SHALL CUT WALLS, FLOOR ETC., FOR MECHANICAL AND ELECTRICAL ACCESS AND SERVICES TO SUIT REQUIRED DIMENSIONS.
- FILL ALL OPENINGS & CRACKS DUE TO REMOVAL OF EXISTING PIPES, DUCTS, CONDUITS & FITMENTS PRIOR TO FINISHING FLOORS & WALLS.
- MAKE GOOD ALL PENETRATIONS THROUGH FIRE SEPARATIONS. ALL PENETRATIONS TO BE SEALED WITH RATED MATERIAL. REPAIR EXISTING SPRAYED ON FIREPROOFING AT ALL EXISTING DAMAGED AREAS AND WHERE DISTURBED BY THE WORK OF THIS CONTRACT. MAXIMUM FLAME-SPREAD RATING OF 150 FOR ALL INTERIOR FINISHES.
- MODIFY TELEPHONE, ELECTRICAL, ALARM & HVAC AS REFERRED TO IN M&E DRAWINGS.
- ALL EXPOSED DUCTWORK, CONDUIT AND M&E EQUIPMENT TO BE PAINTED TO MATCH ADJACENT SURFACES UNLESS SPECIFICALLY NOTED. CONFIRM ALL FINISHES WITH ARCHITECT PRIOR TO PROCEEDING.
- SEE M & E DRAWINGS FOR RE-LOCATION AND/OR REMOVAL OF OBSOLETE EQUIPMENT. PATCH & MAKE GOOD AND FINAL FINISH TO MATCH NEW CONDITION
- HAZARDOUS AND DESIGNATED SUBSTANCES IF HAZARDOUS MATERIALS/DESIGNATED SUBSTANCES ARE ENCOUNTERED DURING CONSTRUCTION, OWNER IS TO BE NOTIFIED IMMEDIATELY. MATERIALS ARE NOT TO BE REMOVED BY CONTRACTOR, CONTRACTOR TO COORDINATE WITH OWNER AND OWNER'S CONTRACTOR.
- ENTIRE FLOOR AREA: PROVIDE COVERS FOR ALL OPENINGS, SOCKETS, ETC. TO EXIST UNDER FLOOR RACEWAY SYSTEM. PATCH OVER AND SEAL ALL CUTTING, DRILLING AND BURNING OF EXISTING FLOOR OR STRUCTURAL CEILING SLAB MUST ENSURE INTEGRITY OF STRUCTURAL SYSTEM (IE. REBAR, STEEL, ETC.) FIRE PROTECTION AND AIR TIGHTNESS ARE MAINTAINED.
- COORDINATE ALL CUTTING AND PATCHING AROUND SERVICES ETC. PENETRATING EXISTING OR NEW WALLS TO MAINTAIN STRUCTURAL FIRESTOPPING, AIR TIGHTNESS INTEGRITY AND APPEARANCE. FINISH ALL OPENINGS AROUND DUCTS & OTHER OPENINGS, ETC WITH DRYWALL PRIOR TO DUCT PLACEMENT TAPE, SEAL & PRIME. PROVIDE FIRE STOPPING / AIR BARRIER SEALANT BETWEEN DUCT, ETC. AND DRYWALL PERIMETER. MAKE GOOD ALL SURFACES FOR FINAL FINISH.
- ALL EQUIPMENT LOCATIONS TO BE COORDINATED WITH THE OWNER. EQUIPMENT LOCATIONS INDICATED ARE FOR INFORMATION ONLY - CONTRACTOR TO COORDINATE INTERACTING TRADES TO FACILITATE FULL OPERATION WHEN THE EQUIPMENT IS INSTALLED BY OWNER.
- MODIFY CEILING & LIGHTING AT EXISTING AREAS AS REQ'D
- CONTRACTOR SHALL CHALK LINE ALL PARTITIONS AND EQUIPMENT POSITIONS FOR REVIEW & APPROVAL BY OWNER PRIOR TO COMMENCEMENT OF WORK. IF CONFLICT ARISES BETWEEN DRAWINGS AND FIELD MEASUREMENTS THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ARCHITECT FOR DIRECTION. AT NO TIME SHALL THE CONTRACTOR PROCEED IN UNCERTAINTY.
- ALL ELECTRICAL BOXES, PENETRATIONS, ETC. THROUGH WALLS DESIGNATED TO BE AIR-TIGHT TO BE AIR SEALED.
- ELECTRONIC COPIES OF THE ARCHITECTURAL DRAWINGS FOR THIS PROJECT FOR USE IN THE PREPARATION OF SHOP DRAWINGS AND AS-BUILT DRAWINGS (AND FOR NO OTHER PURPOSES) ARE AVAILABLE AS-IS AND AT A COST OF \$100.00 PER DRAWING WITH A MINIMUM OF \$400.00 PER SUBMISSION. THE DRAWINGS WILL BE PROVIDED WITHOUT ANY TITLE BLOCKS OR SEALS.

DRAWING SYMBOL LEGEND

NOTE: NOT ALL TYPES ARE NECESSARILY USED ON THIS PROJECT. REFER TO FLOOR PLANS.

	BUILDING CROSS SECTION, SECTION NO. AND SHEET DRAWING ON
	WALL CROSS SECTION, SECTION NO. AND SHEET DRAWING ON
	INTERIOR ELEVATION REFERENCE NUMBERS INDICATE VIEW NUMBER
	ELEVATION DATUM
	DETAIL REFERENCE BUBBLE, DETAIL NO. AND SHEET DRAWN ON
	GRID LINE AND BUBBLE REFERENCE
	DETAIL REFERENCE BUBBLE, CEILING TYPE AND CEILING HEIGHT A.F.F.
	WALL TYPE
	DOOR NUMBER - FIRST FLOOR AT ROOM NO. A105
	WINDOW NUMBER
	SCREEN NUMBER
	ROOF TYPE
	ROOM NAME AND NUMBER
	EQUIPMENT NOT IN CONTRACT
	EXISTING FINISH FLOOR ARE APPROXIMATE. SITE VERIFY PRIOR TO COMMENCING CONSTRUCTION

DEMOLITION LEGEND

	EXISTING DOOR TO REMAIN		EXISTING WALL TO REMAIN
	DOOR TO BE DEMOLISHED		WALL TO BE DEMOLISHED
	ACT TO BE DEMOLISHED		EXISTING ACT TO REMAIN
	DENOTES: EXISTING DEVICE TO REMAIN		DENOTES: EXISTING DEVICE TO BE RELOCATED
	DENOTES: EXISTING DEVICE TO BE REMOVED AND DISPOSED		REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, GRILLES, DIFFUSERS & DEVICES, LOCATIONS TO BE CONFIRMED.

CONSTRUCTION LEGEND

	NEW DOOR		NEW WALL
	NEW ACT		DENOTES: NEW DEVICE
	DENOTES: EXISTING RELOCATED DEVICE		

WALL TYPE SCHEDULE

NOTES:
1. ALL PENETRATIONS IN FIRE RATED WALLS & JUNCTIONS TO BE FIRESTOPPED & SEALED WITH RATED MATERIAL.
2. ALL FIRE SEPARATION PARTITIONS (INCLUDED IHR RATED WALLS AT CORRIDORS) TO EXTEND TO US OF SLAB OR MTL DECK AND TO BE FIRESTOPPED & SEALED WITH RATED MATERIAL TO DECK SLAB & ALL WALLS.
3. ALL PARTITIONS TO EXTEND TO US OF SLAB OR MTL DECK UNLESS OTHERWISE NOTED.
4. ALL EXPOSED MASONRY CORNERS TO BE BULLNOSED - TYPICAL.

WALL TYPE	CONSTRUCTION	DESCRIPTION	MINIMUM FIRE RATING AND SOUND TRANSMISSION CLASS
1		INTERIOR LIGHT WEIGHT MASONRY WALL 140mm CONCRETE BLOCK NOTE: WALL TO BE EXTENDED TO U/S OF STRUCTURAL DECK + SMOKE AND FIRE SHIELD ALL SIDES.	1 HR. FIRE RATING O.B.C. SB-2 SUPP STD. 2.1.1. TABLE 2.2.1
2		INTERIOR LIGHT WEIGHT MASONRY WALL 140mm CONCRETE BLOCK NOTE: HEIGHT AS PER INTERIOR ELEVATIONS - USE BULL NOSED UNITS AT EXPOSED CORNERS	
P1		INTERIOR ACOUSTIC WALL PARTITION 16mm IMPACT-RESISTANT GWB 19mm PLYWOOD ±92mm METAL STUDS @ 400mm O.C. ±89mm ACOUSTIC BATTS 19mm PLYWOOD 16mm IMPACT-RESISTANT GWB NOTE: WALL EXTENDED TO U/S STRUCTURAL DECK. PLYWOOD TO EXTEND 100MM ABOVE CEILING.	
P2		INTERIOR ACOUSTIC WALL PARTITION ±92mm METAL STUDS @ 400mm O.C. ±89mm ACOUSTIC BATTS 19mm PLYWOOD 16mm IMPACT-RESISTANT GWB NOTE: WALL EXTENDED TO U/S STRUCTURAL DECK. PLYWOOD TO EXTEND 100MM ABOVE CEILING.	
P3		INTERIOR ACOUSTIC WALL PARTITION 16mm IMPACT-RESISTANT GWB ±92mm METAL STUDS @ 600mm O.C. ±89mm ACOUSTIC BATTS 16mm IMPACT-RESISTANT GWB NOTE: WALL TO BE EXTENDED TO UNDERSIDE OF SLAB.	1 HOUR FIRE RATING ULC DESIGN W415 STC 50 SOUND: NRC TL-93-324

CONCRETE BLOCK
1HR 90mm 75% SOLID
140mm STANDARD
2HR 140mm 75% SOLID
190mm 75% SOLID

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STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1
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Title:
LEGEND AND GENERAL NOTES

Scale: As Noted	Date: JAN 2 2025	Drawing: A002
Project: 24-50	Drawn By:	

DATE PLOTTED: JAN 31 2025

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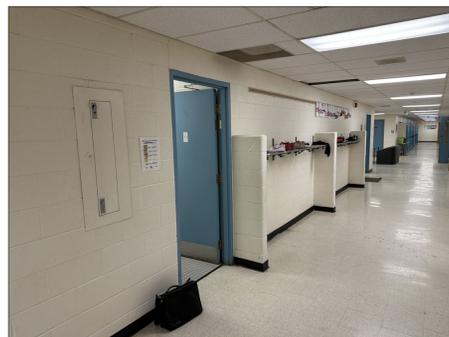
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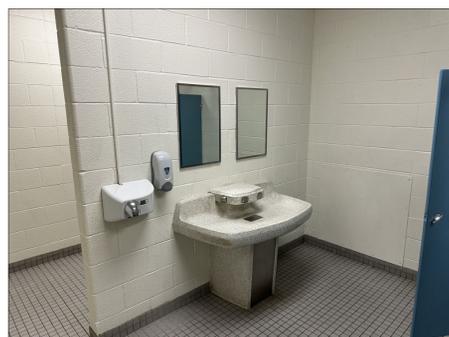
• PLOT SCALE: 1:1 AT 36x36 SHEET SIZE. READ DRAWINGS ACCORDINGLY.
• PLOT SCALE: 1:1 AT 11x17 SHEET SIZE. READ DRAWING ACCORDINGLY.



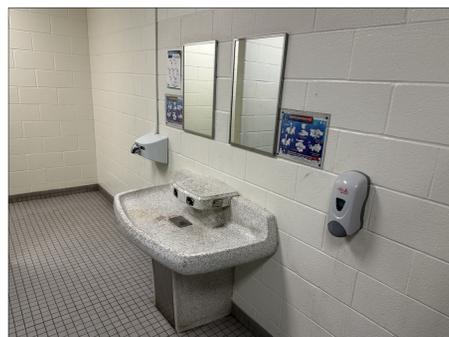
3 EXISTING PHOTOS – CORRIDOR 221



2 EXISTING BOYS WR 216



1 EXISTING GIRLS WR 217



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 EXISTING PROJECT
 PHOTOS

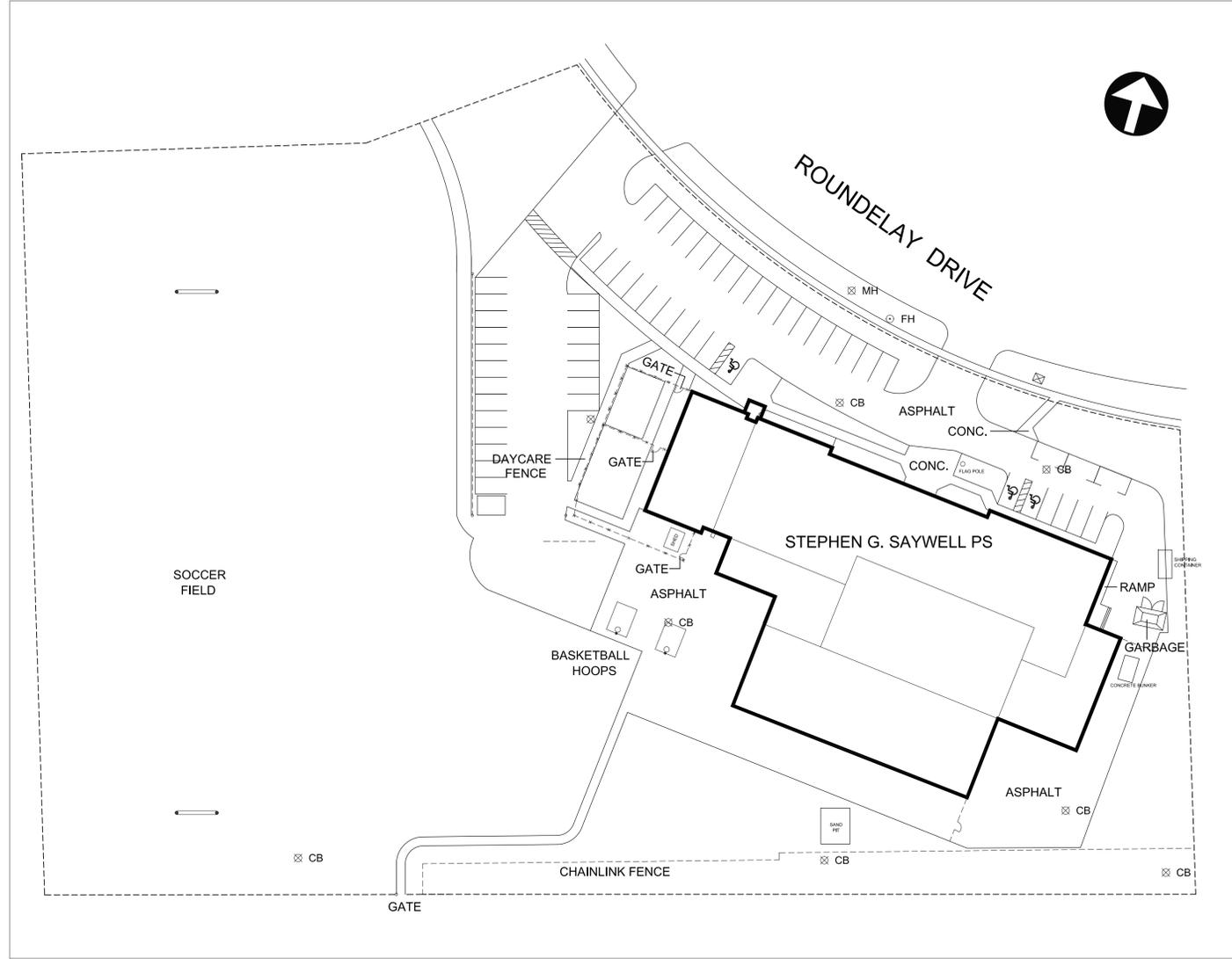
Scale: As Noted Date: JAN 2 2025 Drawing:
 Project: 24-50 Drawn By: **A004**

DATE PLOTTED: JAN 31 2025

• PLOT SCALE: 1/4" = 1'-0" SHEET SIZE READ DRAWINGS ACCORDINGLY
 • PLOT SCALE: 1/2" = 1'-0" SHEET SIZE READ DRAWINGS ACCORDINGLY

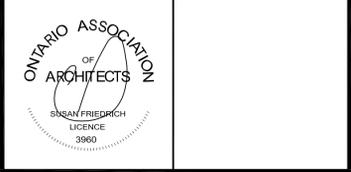


2 EXISTING AERIAL LOCATION PLAN
SCALE NTS



1 EXISTING SITE PLAN
SCALE 1:500

SUSAN FRIEDRICH ARCHITECT INC. ■
643 St. Clair Avenue West, Toronto, Ontario M6C 1A7
Telephone (416) 588-3740



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2	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

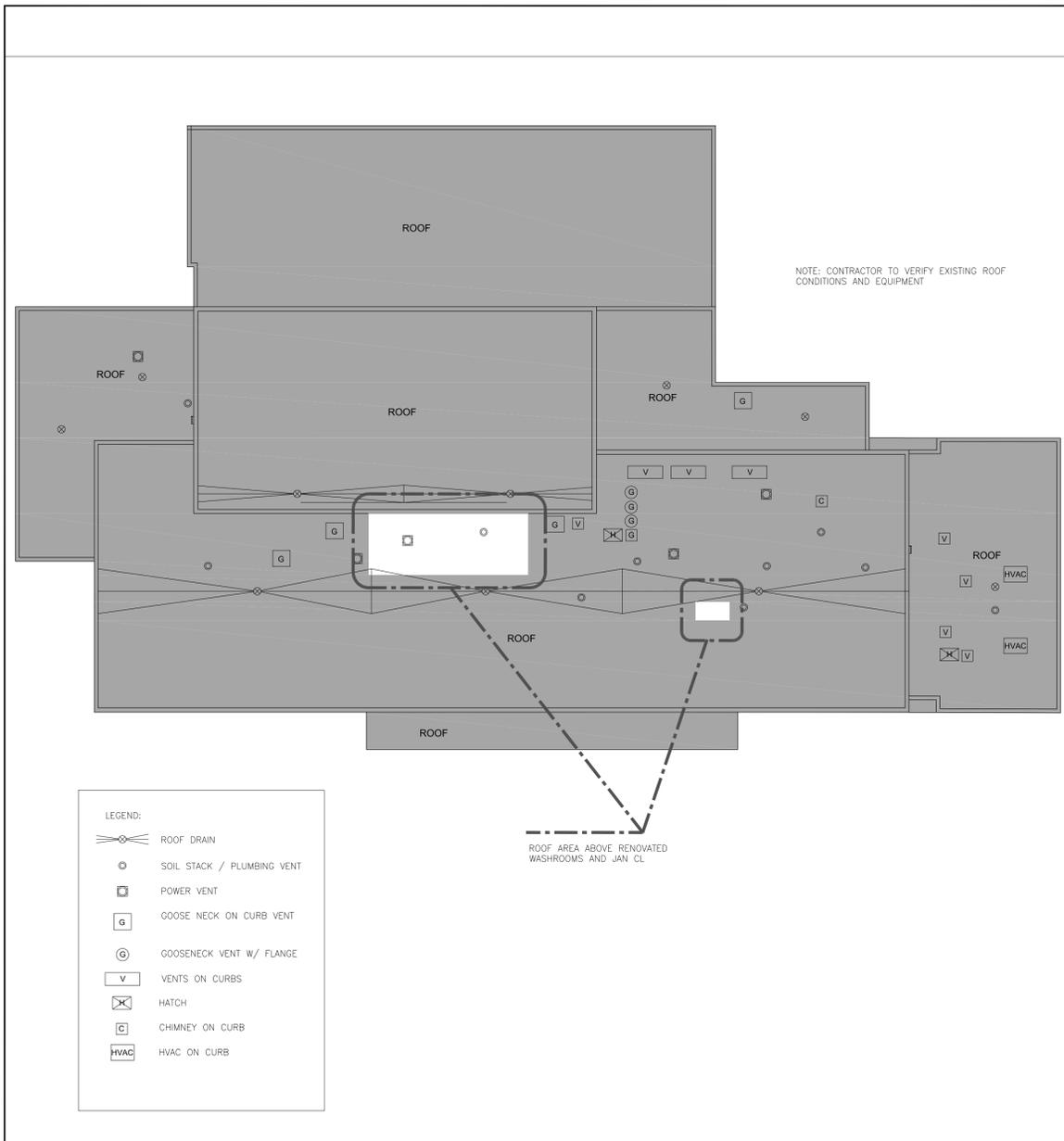
Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1
T25-10

Title:
EXISTING SITE PLAN

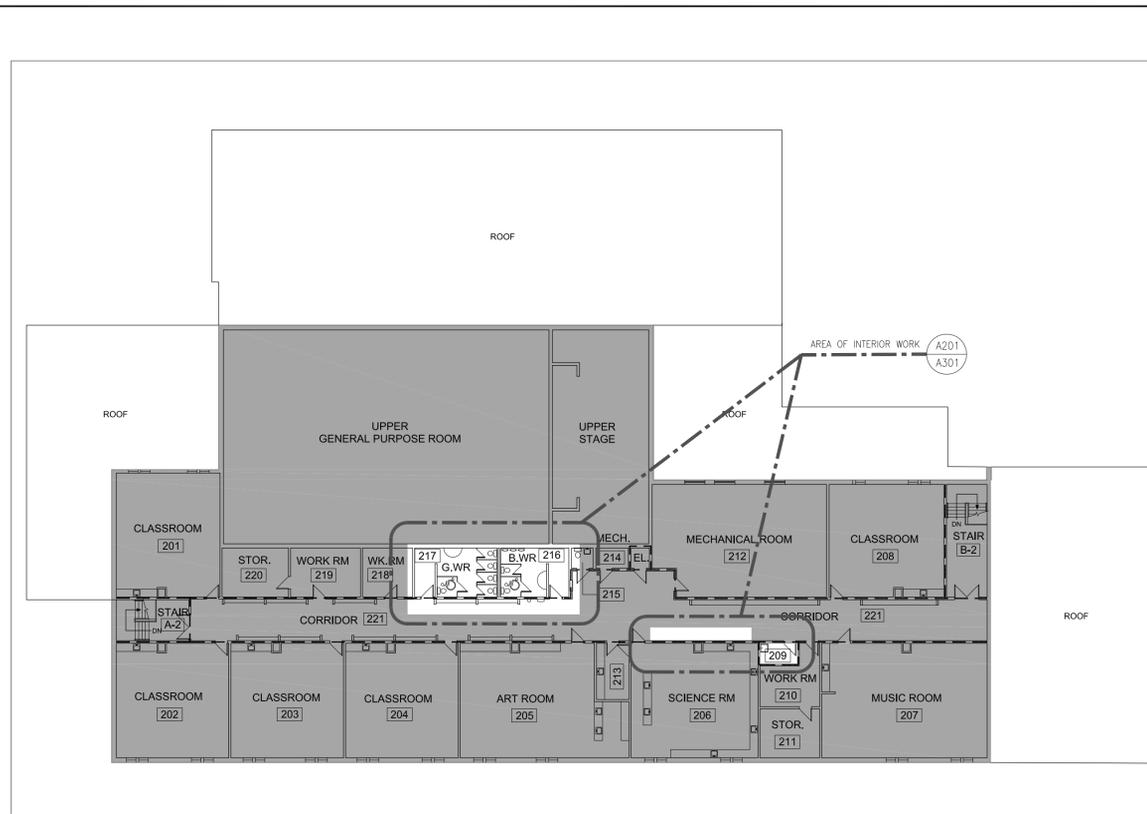
Scale: As Noted	Date: JAN 6 2025	Drawing: A101
Project: 24-50	Drawn By:	

DATE PLOTTED: JAN 31 2025

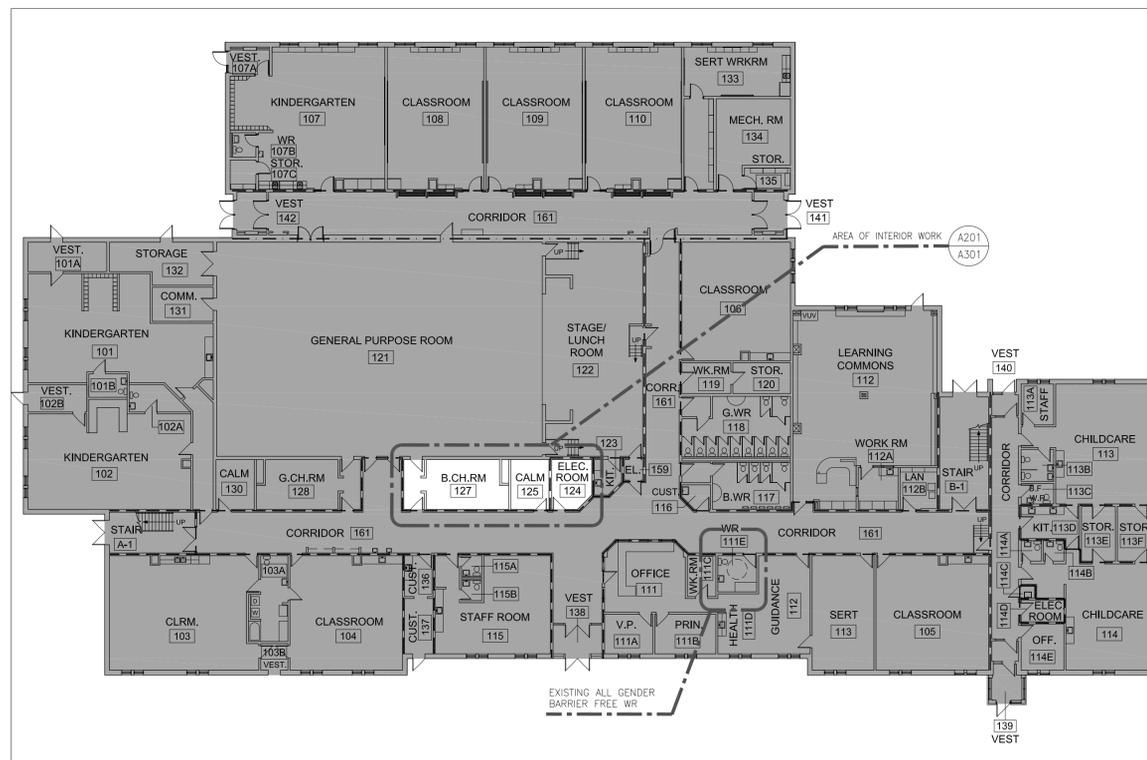
• PLOT SCALE: 1/4" = 1'-0" SHEET SIZE: READ DRAWINGS ACCORDINGLY.
 • PLOT SCALE: 1/2" = 1'-0" SHEET SIZE: READ DRAWINGS ACCORDINGLY.



3 EXISTING ROOF KEY PLAN
SCALE 1:250

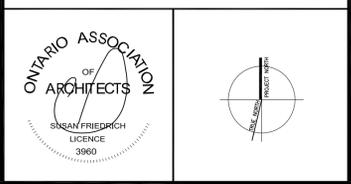


2 EXISTING 2ND FLOOR KEY PLAN
SCALE 1:250



1 EXISTING GROUND FLOOR KEY PLAN
SCALE 1:250

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LEGEND:

- Denotes existing building (NOT AREA OF WORK)
- Denotes 1HR RATED WALL
- Denotes 2HR RATED WALL

2	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1

Title:
EXISTING FLOOR
KEY PLANS

Scale: As Noted Date: JAN 3 2025 Drawing: A102

Project: 24-50 Drawn By:

DATE PLOTTED: JAN 31 2025

• PLOT SCALE: 1:250
 • A1: 11x17 SHEET SIZE
 • A2: 11x17 SHEET SIZE
 • A3: 11x17 SHEET SIZE
 • A4: 11x17 SHEET SIZE
 • A5: 11x17 SHEET SIZE
 • A6: 11x17 SHEET SIZE
 • A7: 11x17 SHEET SIZE
 • A8: 11x17 SHEET SIZE
 • A9: 11x17 SHEET SIZE
 • A10: 11x17 SHEET SIZE
 • A11: 11x17 SHEET SIZE
 • A12: 11x17 SHEET SIZE
 • A13: 11x17 SHEET SIZE
 • A14: 11x17 SHEET SIZE
 • A15: 11x17 SHEET SIZE
 • A16: 11x17 SHEET SIZE
 • A17: 11x17 SHEET SIZE
 • A18: 11x17 SHEET SIZE
 • A19: 11x17 SHEET SIZE
 • A20: 11x17 SHEET SIZE
 • A21: 11x17 SHEET SIZE
 • A22: 11x17 SHEET SIZE
 • A23: 11x17 SHEET SIZE
 • A24: 11x17 SHEET SIZE
 • A25: 11x17 SHEET SIZE
 • A26: 11x17 SHEET SIZE
 • A27: 11x17 SHEET SIZE
 • A28: 11x17 SHEET SIZE
 • A29: 11x17 SHEET SIZE
 • A30: 11x17 SHEET SIZE
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 • A33: 11x17 SHEET SIZE
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 • A88: 11x17 SHEET SIZE
 • A89: 11x17 SHEET SIZE
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 • A92: 11x17 SHEET SIZE
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 • A95: 11x17 SHEET SIZE
 • A96: 11x17 SHEET SIZE
 • A97: 11x17 SHEET SIZE
 • A98: 11x17 SHEET SIZE
 • A99: 11x17 SHEET SIZE
 • A100: 11x17 SHEET SIZE

DEMOLITION NOTES:

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

- 1 AT EXISTING WASHROOMS 218, 219 AND EXISTING WASHROOM VESTIBULES 217, 220:
 - REMOVE FLOOR FINISHES, FIXTURES, TOILET PARTITIONS, WR ACCESSORIES, AND WALL PARTITIONS BETWEEN VESTIBULES AND WASHROOMS
 - PREPARE EXISTING FLOOR AT NEW WRs AND NEW CORRIDOR AREA TO SLOPE TO NEW FLOOR DRAIN AND LEVELLED FOR NEW FLOORING AS SPECIFIED
 - PREPARE EXISTING FLOOR TO BE LEVELLED TO RECEIVE NEW FLOORING AS SPECIFIED (TYPICAL)
 - WASHROOM ACCESSORIES TO BE TURNED OVER TO THE SCHOOL
 - REMOVE SUSPENDED T-BAR CEILING, CEILING TILES, AND ACCESSORIES
 - ALL WALLS, FLOORS, CEILING AND BULKHEADS AFFECTED FOR THIS SCOPE OF WORK TO PATCH AND MAKE GOOD ALL DISTURBED AREA TO MATCH EXISTING
 - REFER M&E DWGS FOR ALL M&E DEMOLITIONS AND RELOCATIONS
 - REFER STRUCTURAL DWGS FOR ALL STRUCTURAL SUPPORT AND DETAILS
- 2 AT EXISTING CORRIDOR 212:
 - REMOVE MASONRY PARTITION, DOORS AND DOOR FRAMES BETWEEN THE CORRIDOR AND EXISTING WASHROOMS AS NOTED ON PLAN
 - CAREFULLY REMOVE PARTIAL HEIGHT MASONRY WALLS AND SHELVING ADJACENT TO WASHROOMS, AS NOTED ON PLAN. STORE SHELVING FOR RELOCATION
 - REMOVE EXISTING TACKBOARDS AT NEW LOCATION OF CORRIDOR COAT RACK
 - ALL WALLS, FLOORS, CEILING AND BULKHEADS AFFECTED FOR THIS SCOPE OF WORK TO PATCH AND MAKE GOOD ALL DISTURBED AREA TO MATCH EXISTING
 - REFER M&E DWGS FOR ALL M&E DEMOLITIONS AND RELOCATIONS
 - REFER STRUCTURAL DWGS FOR ALL STRUCTURAL SUPPORT AND DETAILS
- 3 ALL DEMOLITIONS AFFECTED FOR THIS SCOPE OF WORK:
 - PATCH AND MAKE GOOD ALL DISTURBED AREA TO MATCH EXISTING TYPICAL
- 4 ALL M&E DEMOLITION/RELOCATIONS REFER M&E DWGS - TYPICAL
 - ALL OPENINGS ON EXISTING WALLS/FLOORS/CEILINGS AFFECTED FOR THIS SCOPE OF WORK TO BE PATCHED AND MAKE GOOD TO MATCH EXISTING + ALL FIRE RATED AREAS TO BE FIRESTOPPED AND SMOKE SEALED WITH RATED MATERIAL TO MATCH EXISTING - TYPICAL
- 5 WHERE EXISTING FLOOR/CEILING AT EXISTING CORRIDOR AFFECTED FOR THIS SCOPE OF WORK AND/OR TO BE CUT FOR NEW M&E SERVICES:
 - REMOVE EXISTING VCT AS REQUIRED AND SUPPLY/INSTALL NEW TERRAZZO TO MATCH EXISTING (TYP.)
 - REMOVE AND REWORK EXISTING ACT/GWB CEILING AS NEEDED TO SUIT ALL NEW M&E WORK
 - PATCH AND MAKE GOOD ALL DISTURBED AREA TO MATCH EXISTING (TYP.)
 - REFER M&E DWGS FOR THE EXTENT OF M&E WORK (TYPICAL)
- 6 EXISTING WALLS AT CORRIDOR:
 - ALL OPENINGS IN THE AREA OF WORK TO BE INFILLED, FIRE STOPPED AND SMOKE SEALED WITH RATED MATERIAL (TYPICAL)
- 7 REFER STRUCTURAL DWGS FOR ALL STRUCTURAL SUPPORT AND DETAILS (TYPICAL)
- 8 DUSTPROOF PARTITIONS SHALL CONSIST OF CONSTRUCTION GRADE WOOD 38MM X 92MM FRAMING FROM FLOOR TO THE UNDERSIDE OF CEILING WITH VOIDS FILLED WITH SOUND ATTENUATION BATS, WITH ONE LAYER OF 13 MM PLYWOOD SHEATHING COVERED WITH SEALED AND TAPED 10 MIL POLYETHYLENE, CALKED AND SEALED AROUND THE PERIMETER OF THE PARTITION AND COVERED BY ONE LAYER OF 16 MM TYPE X GYPSUM WALL BOARD EACH SIDE WITH OFFSET JOINTS TAPED
- 9 ALL ITEMS EXISTING NOT INCORPORATED INTO THE REVISED LAYOUT TO BE REMOVED AND DISPOSED OF UNLESS NOTED. MAKE GOOD ALL DISTURBED SURFACES, ADJACENT FLOORS, WALLS AND CEILINGS TO MATCH EXISTING AFTER COMPLETION OF WORK, UNLESS OTHERWISE NOTED. ALL ABANDONED ELECTRIC PANELS, EQUIPMENT, CONDUIT, ETC., TO BE REMOVED

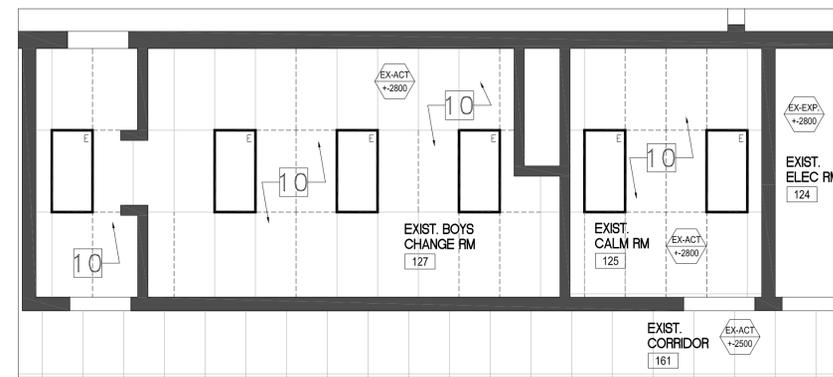
GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE PRIOR TO INSTALLATION OF NEW WORK
- 10 REMOVE EXISTING ACT CEILING AS REQUIRED TO SUIT NEW M&E SERVICES. RESTORE, PATCH AND MAKE GOOD ALL DISTURBED AREAS TO MATCH EXISTING.
- 11 PATCH AND MAKE GOOD EXISTING CORRIDOR WALL AT MECH DUCT REMOVALS. RESTORE INTEGRITY OF FIRE RATED WALL TO MATCH EXISTING.

CONCRETE CUTTING AND CORING:

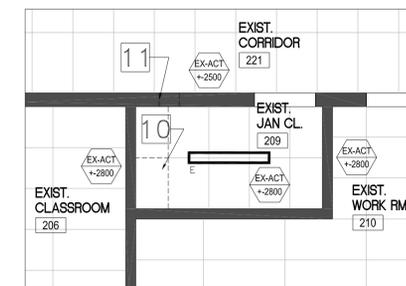
1. PRIOR TO CUTTING OR CORING ANY CONCRETE SLAB OR ON GRADE, OR ANY CONCRETE BEAM, INVESTIGATE BY TELEMETRICALLY SCANNING THE ELEMENT FOR PRESENCE OF EMBEDDED SERVICES (PIPING, CABLING, CONDUIT, ETC.), AND FOR LOCATIONS OF REINFORCING STEEL IN CONCRETE SLABS AND BEAMS.
2. ACCEPTABLE TELEMETRIC SCANNING SYSTEMS INCLUDE:
 - a) X-RAY SCANNING OF SLABS AND FOR CONCRETE BEAMS. (GROUND-PENETRATING) RADAR FOR SLAB ON GRADE, FOR SLABS AND FOR CONCRETE BEAMS.
 - b) MAGNETIC RADIO SCANNERS NOT ACCEPTABLE FOR TELEMETRIC SCANNING. THE TERM X-RAYS INCLUDE GAMMA RAY METHODS, AND PROCEDURES THAT USE ELECTRICALLY GENERATED X-RAYS.
 - c) WHERE X-RAYS EMPLOYED:
 - I. PROVIDE OWNER MINIMUM 5 WORKING DAYS ADVANCE NOTICE OF SCANNING TIME IN ORDER TO PROVIDE SUFFICIENT ADVANCE NOTICE TO PERSONNEL THAT MAY BE AFFECTED BY THE X-RAY WORK.
 - II. CONFORM TO OWNER'S RADIATION PROTECTION REQUIREMENTS PRIOR TO START OF ANY XRAY WORK.
 - III. PROVIDE OWNER AND CONSULTANT WITH INSPECTION AGENCY'S WRITTEN REPORT, SUMMARIZING INVESTIGATIONS AND CONCLUSIONS.
 - IV. OBTAIN CONSULTANT'S DIRECTION WHERE INVESTIGATIONS REVEAL THAT CUTTING OR CORING REQUIRED IN CONTRACT WOULD CUT OR DAMAGE EMBEDDED SERVICES, OR CUT OR DAMAGE REINFORCING STEEL IN CONCRETE SLABS OR BEAMS.
 - V. EXECUTE CUTTING AND CORING TO PREVENT DAMAGE TO ALL EMBEDDED SERVICES. MAKE GOOD ALL DAMAGE ARISING FROM CUTTING EMBEDDED SERVICES.
 - VI. EXECUTE CUTTING AND CORING TO PREVENT DAMAGE (CUTTING IN WHOLE OR IN PART) REINFORCING STEEL IN CONCRETE SLABS WITH CONSULTANT'S PRIOR AUTHORIZATION.
 - VII. MAKE GOOD ALL DAMAGE ARISING FROM CUTTING REINFORCING STEEL IN CONCRETE SLABS AND BEAMS.

ADDITIONAL CEILING DEMOLITION NOTES:

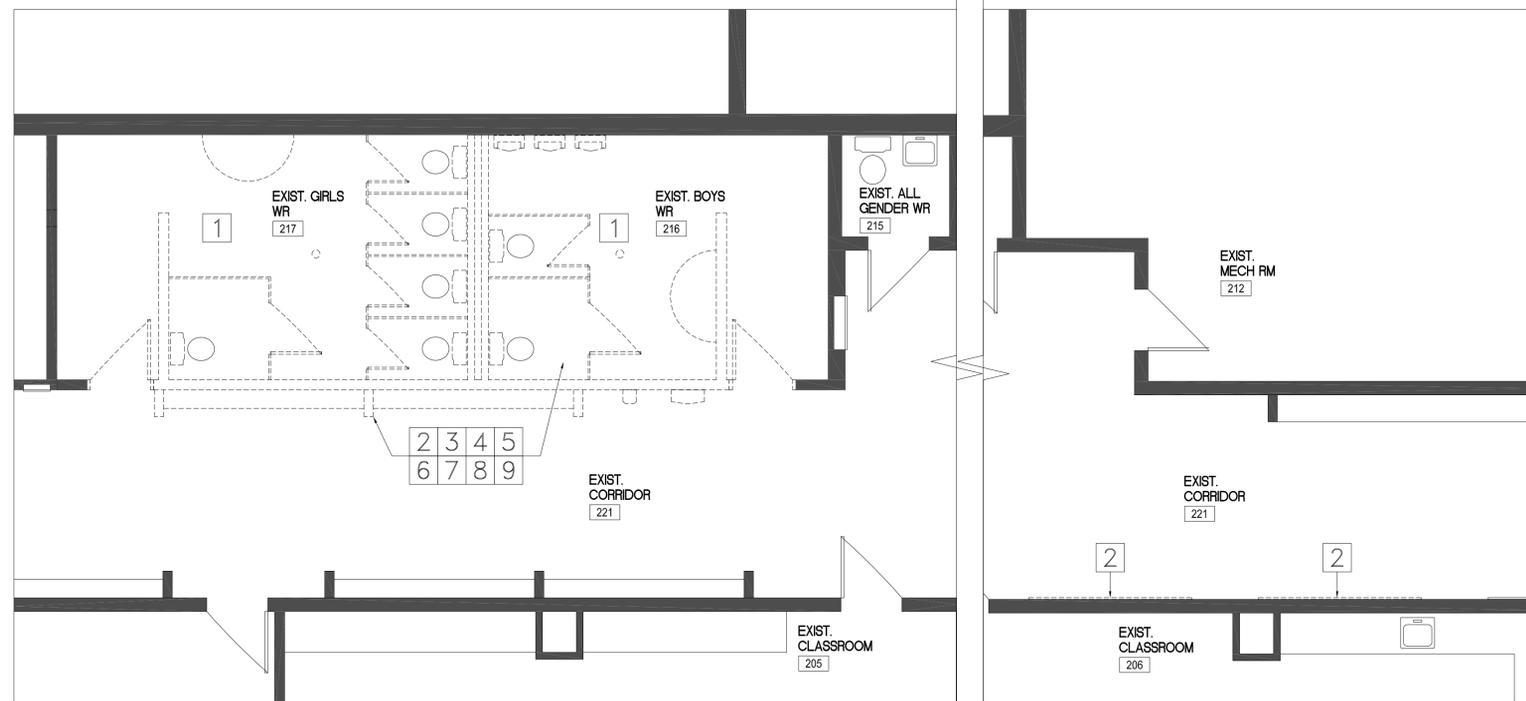
- FOR ALL M&E DEMOLITION/RELOCATIONS (ON WALLS AND CEILING) INCLUDING BUT NOT LIMITED TO HVAC DIFFUSERS/ RETURNS; EXHAUST FANS; SPRINKLERS; ETC. REFER TO M&E DWGS (TYPICAL).
- WHERE EXISTING ACT/GWB CEILING AFFECTED FOR THIS SCOPE OF WORK FOR NEW M&E SERVICES:
 - REMOVE AND REWORK EXISTING ACT/GWB CEILING AS NEEDED TO SUIT ALL NEW M&E WORK
 - REFER M&E DWGS FOR THE EXTENT OF M&E WORK (TYP.)
- PATCH AND MAKE GOOD ALL DISTURBED AREA TO MATCH EXISTING (TYP.)
- ALL DISTURBED FIREPROOFING AREA TO BE RESTORED, FIRE-STOPPED AND SMOKE SEALED TO MATCH EXISTING TYP.



3 PART GROUND FL RCP DEMO PLAN
EXIST CALM RM 125
SCALE 1:50

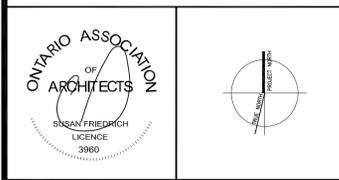


2 PART 2ND FL RCP DEMO PLAN
EXIST JAN CL. 209
SCALE 1:50



1 PART 2ND FLOOR DEMOLITION PLAN
AT EXISTING CORRIDOR AND WASHROOMS
SCALE 1:50

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2	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

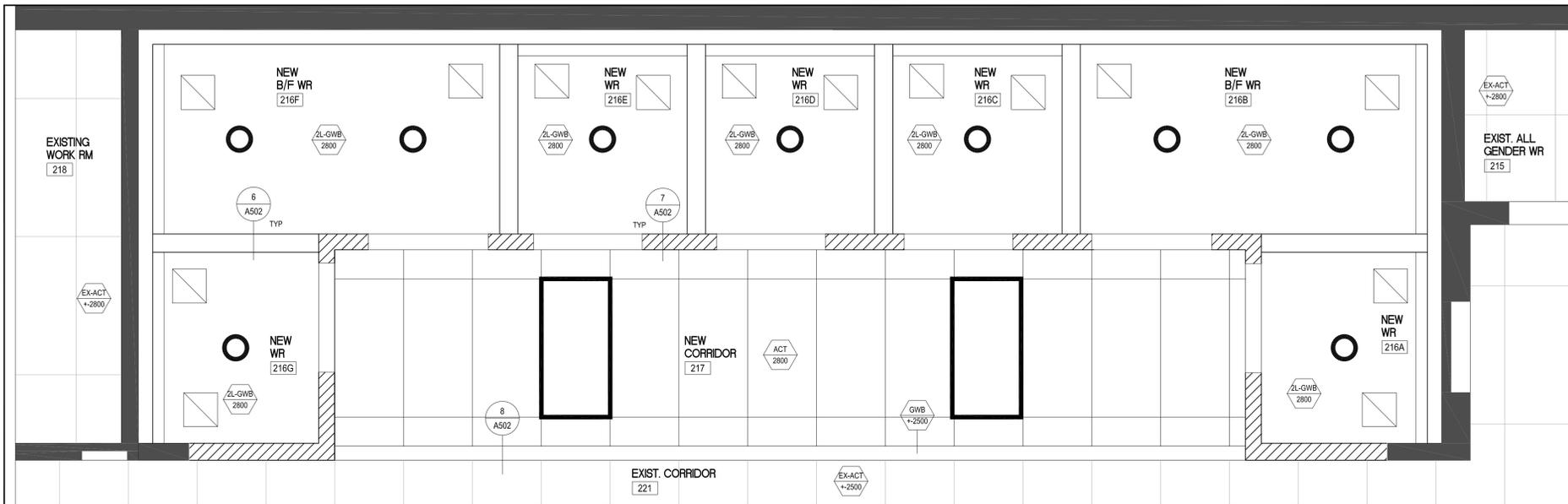
Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1
T25-10

Title:
PART FLOOR PLANS
DEMOLITION

Scale: As Noted	Date: DEC 20 2024	Drawing: A201
Project: 24-50	Drawn By:	

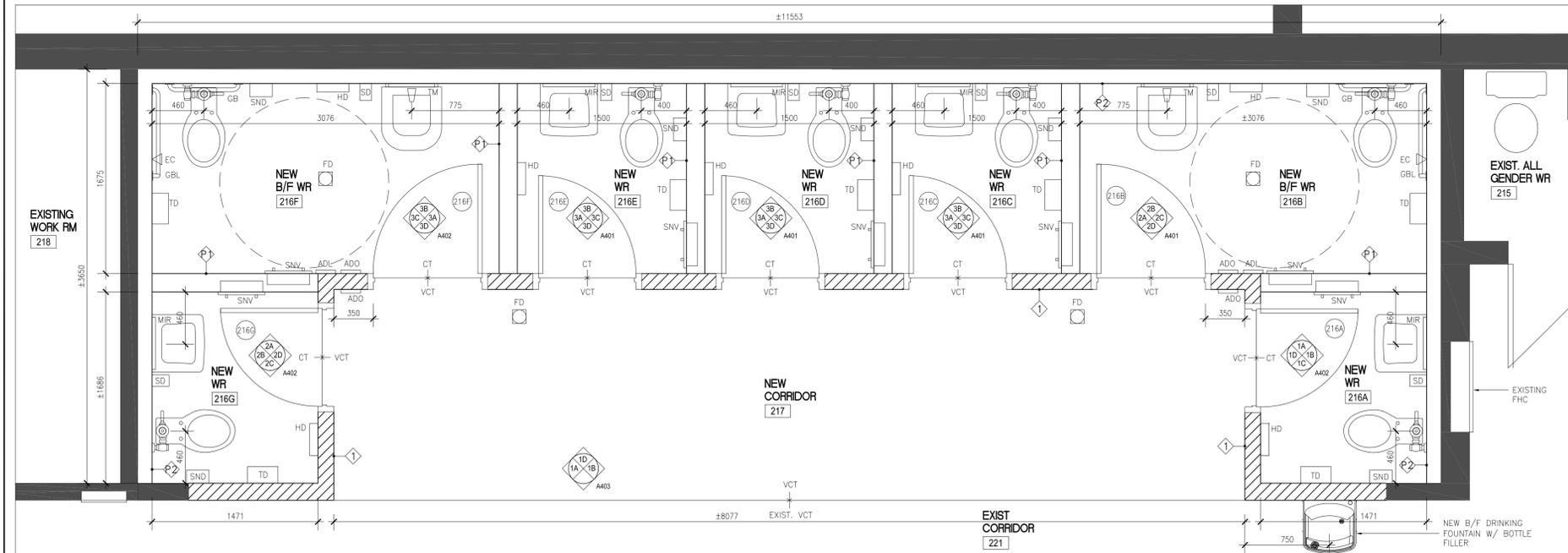
DATE PLOTTED: FEB 06 2025

• PLOT SCALE: 1:50
 • 36" X 48" SHEET SIZE
 • READ DRAWINGS ACCORDINGLY
 • PLOT SCALE: 1:50 AT 11" X 17" SHEET SIZE. READ DRAWING ACCORDINGLY.



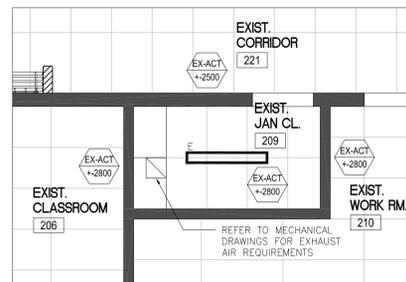
- RCP NOTES AT NEW WASHROOMS AND NEW CORRIDOR:
1. AT NEW ACT CEILING APPLY FIRE RATED ACOUSTIC CEILING TILES C/W ACCESSORIES AND LIGHT ENCLOSURES. REFER TO SPECIFICATIONS.
 2. AT 2-LAYER GWB CEILING APPLY DOUBLE LAYER 16MM TYPE X GYPSUM BOARD W/ 64MM (18MLS) STEEL STUDS @400MM O.C. 1HR RATING BY MEMBRANE ONLY PER OBC SB2 TABLE 2.3.12. APPLY FIRE RATED ENCLOSURES AT POT LIGHTS
 3. ALL PENETRATIONS TO BE FIRE STOPPED IN CONFORMANCE WITH ARTICLE 3.1.9.1. OF DIVISION B OF THE ONTARIO BUILDING CODE

3 PARTIAL 2ND FLOOR RCP – NEW WASHROOMS
SCALE 1:25

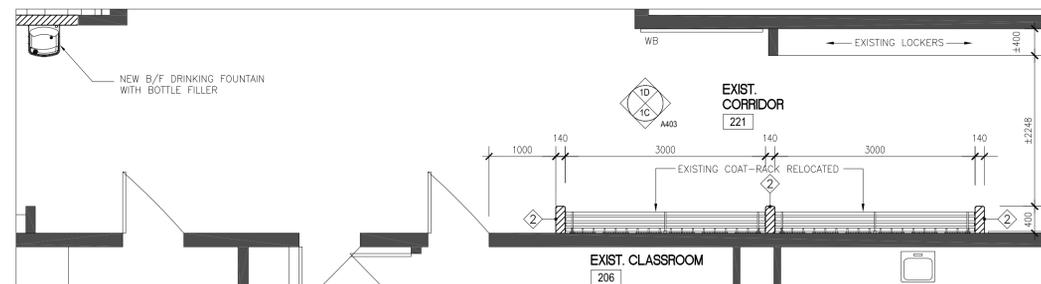


- PLAN NOTES:
1. CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO FLOOR DRAINS IN NEW CORRIDOR
 2. ALL CONDUIT TO BE INSTALLED WITHIN MASONRY AND STUD WALL PARTITIONS – TYP

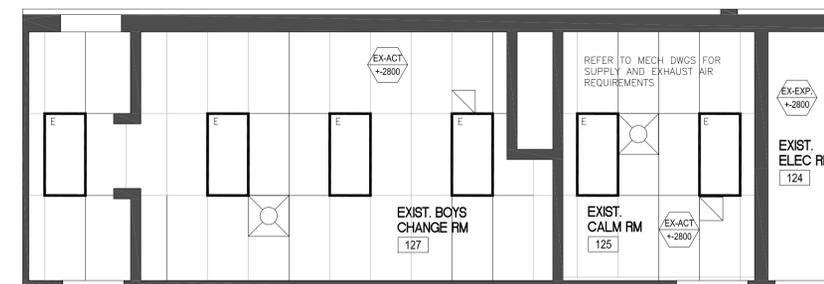
2 PARTIAL 2ND FLOOR PLAN – NEW WASHROOMS
SCALE 1:25



4 PARTIAL RCP EXIST. JAN CL.209
2ND FLOOR SCALE 1:50



1 PARTIAL 2ND FLOOR CORRIDOR 221 – RELOCATED COAT RACK
SCALE 1:50



5 PARTIAL RCP EXIST. RM.125,127
GROUND FLOOR SCALE 1:50

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ONTARIO ASSOCIATION OF ARCHITECTS
SUSAN FRIEDRICH LICENCE 3960

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3	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
2	JAN 29 2025	ISSUED FOR CLIENT REVIEW
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

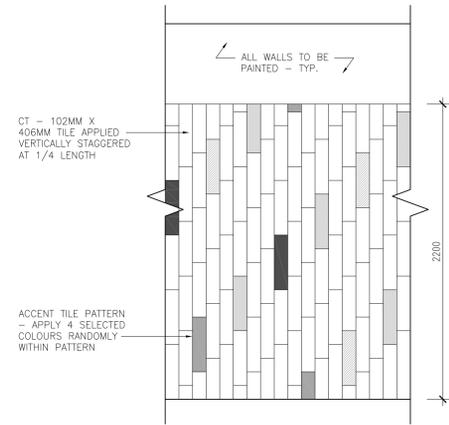
Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1
T25-10

Title:
PART FLOOR PLANS + RCP

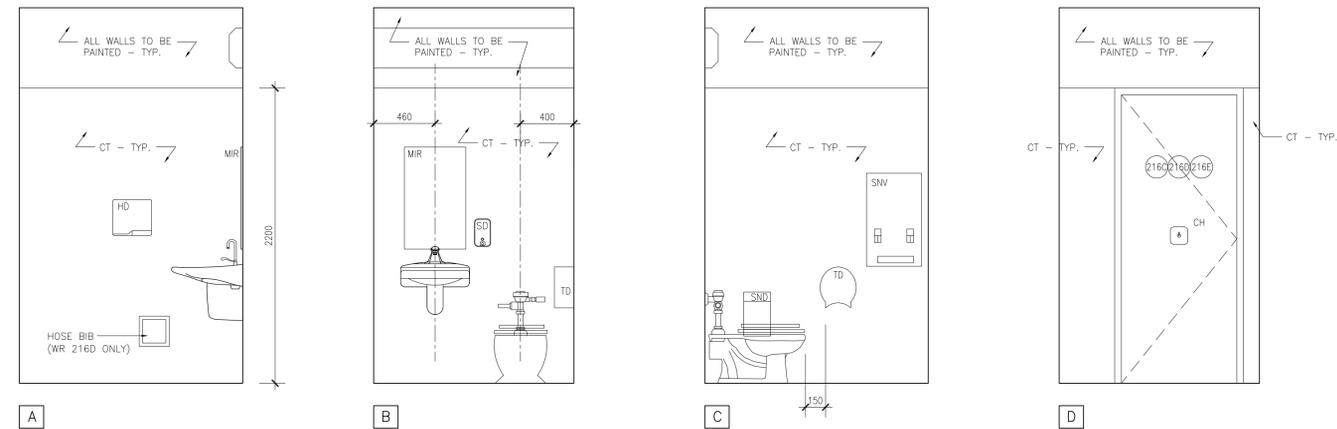
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Project: 24-50	Drawn By:	

DATE PLOTTED: JAN 31 2025

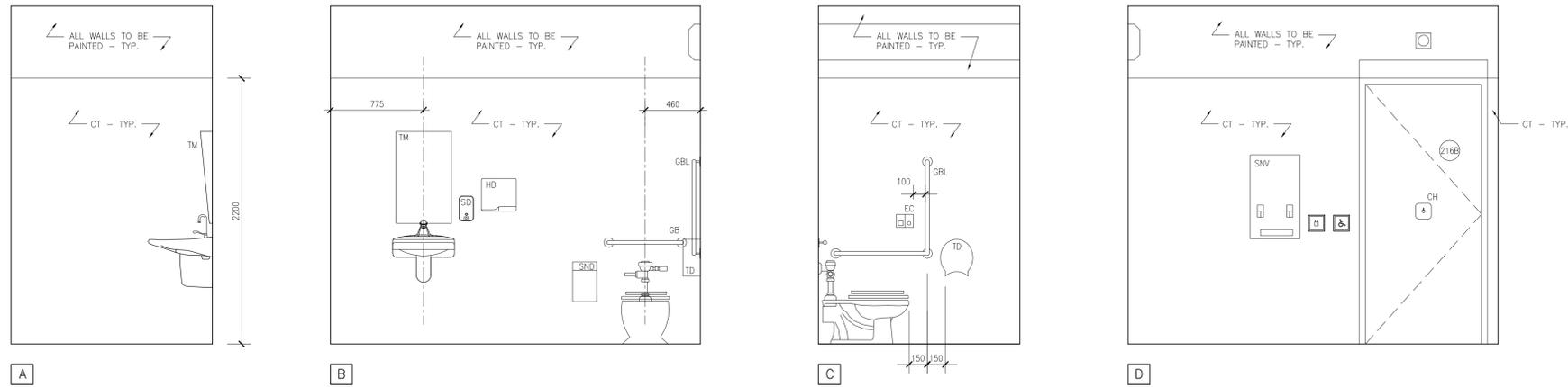
• PLOT SCALE: 1:25 AT 11x17 SHEET SIZE. READ DRAWINGS ACCORDINGLY. • PLOT SCALE: 1:25 AT 11x17 SHEET SIZE. READ DRAWING ACCORDINGLY.



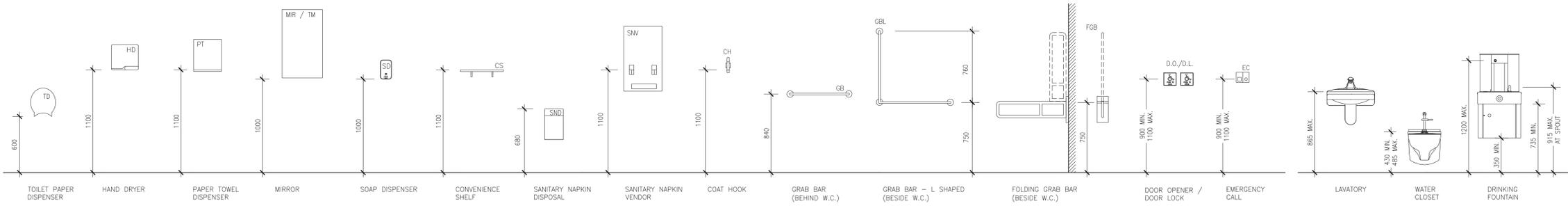
4 TYPICAL WALL TILE PATTERN
SCALE 1:25



3 INTERIOR ELEVATIONS - WASHROOMS 216C, 216D, 216E
SCALE 1:25



2 INTERIOR ELEVATIONS - B/F WASHROOM 216B
SCALE 1:25



1 TYPICAL WR FIXTURE AND ACCESSORY HEIGHTS
SCALE 1:25

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3	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
2	JAN 29 2025	ISSUED FOR CLIENT REVIEW
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

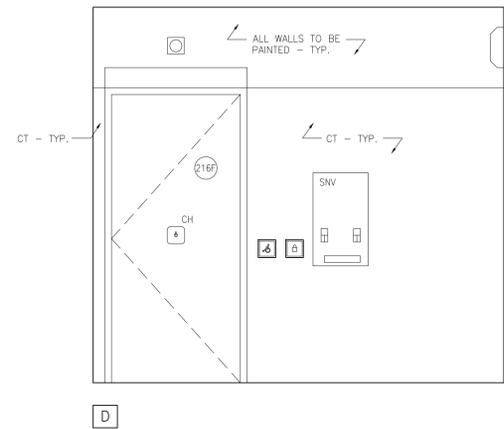
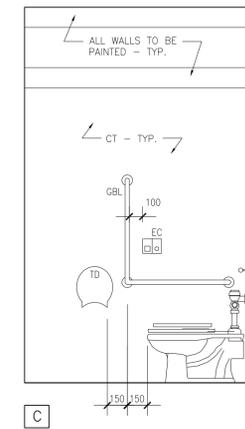
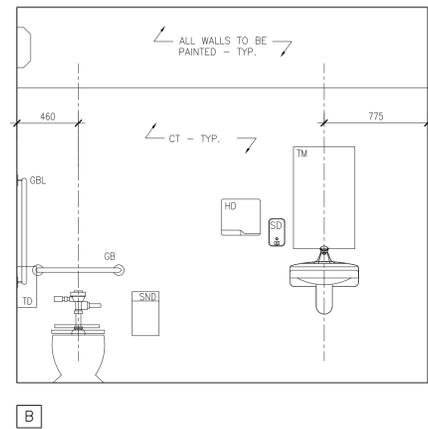
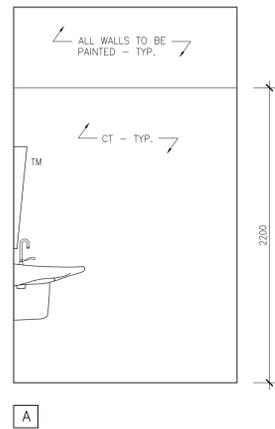
Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1

Title:
INTERIOR ELEVATIONS

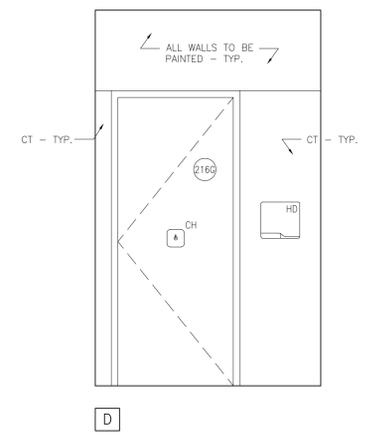
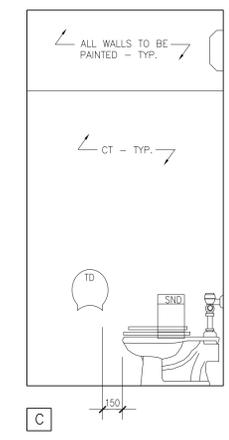
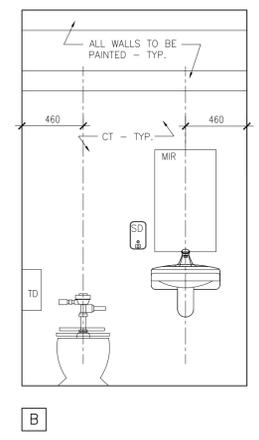
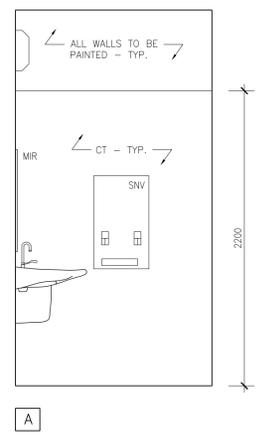
Scale:	Date:	Drawing:
As Noted	JAN 2 2025	A401
Project:	Drawn By:	
24-50		

DATE PLOTTED: JAN 31 2025

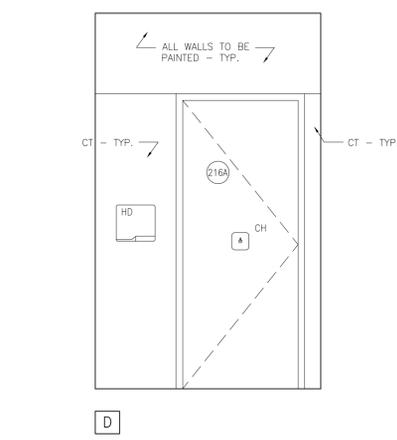
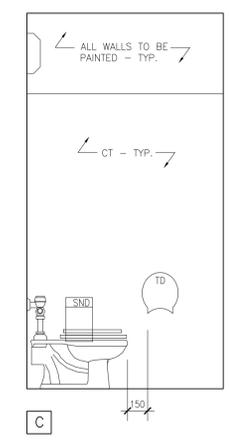
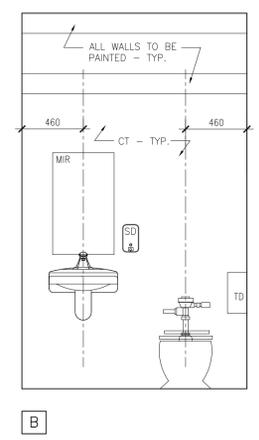
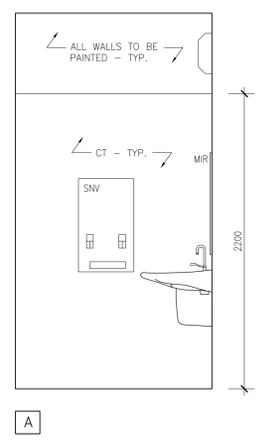
• PLOT SCALE 1:25. 1/4" = 1'-0" SHEET SIZE. READ DRAWINGS ACCORDINGLY.
 • PLOT SCALE 1:25. 1/4" = 1'-0" SHEET SIZE. READ DRAWINGS ACCORDINGLY.



3 INTERIOR ELEVATIONS - NEW B/F WR 216F
SCALE 1:25

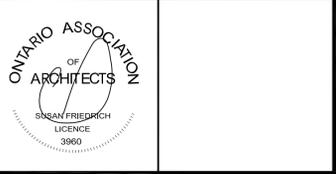


2 INTERIOR ELEVATIONS - NEW WR 216G
SCALE 1:25



1 INTERIOR ELEVATIONS - NEW WR 216A
SCALE 1:25

SUSAN FRIEDRICH ARCHITECT INC.
643 St. Clair Avenue West, Toronto, Ontario M6C 1A7
Telephone (416) 588-3740



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3	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
2	JAN 29 2025	ISSUED FOR CLIENT REVIEW
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1

Title: INTERIOR ELEVATIONS

Scale:	Date:	Drawing:
As Noted	JAN 2 2025	A402
Project:	Drawn By:	
24-50		

DATE PLOTTED: JAN 31 2025

• PLOT SCALE: 1:25
 • A402 SHEET SIZE: READ DRAWINGS ACCORDINGLY
 • PLOT SCALE: 1:25 AT 11x17 SHEET SIZE. READ DRAWING ACCORDINGLY.

SUSAN FRIEDRICH ARCHITECT INC. ■
 643 St. Clair Avenue West, Toronto, Ontario M6C 1A7
 Telephone (416) 588-3740

ONTARIO ASSOCIATION
 OF ARCHITECTS
 SUSAN FRIEDRICH
 LICENCE 3960

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3	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
2	JAN 29 2025	ISSUED FOR CLIENT REVIEW
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

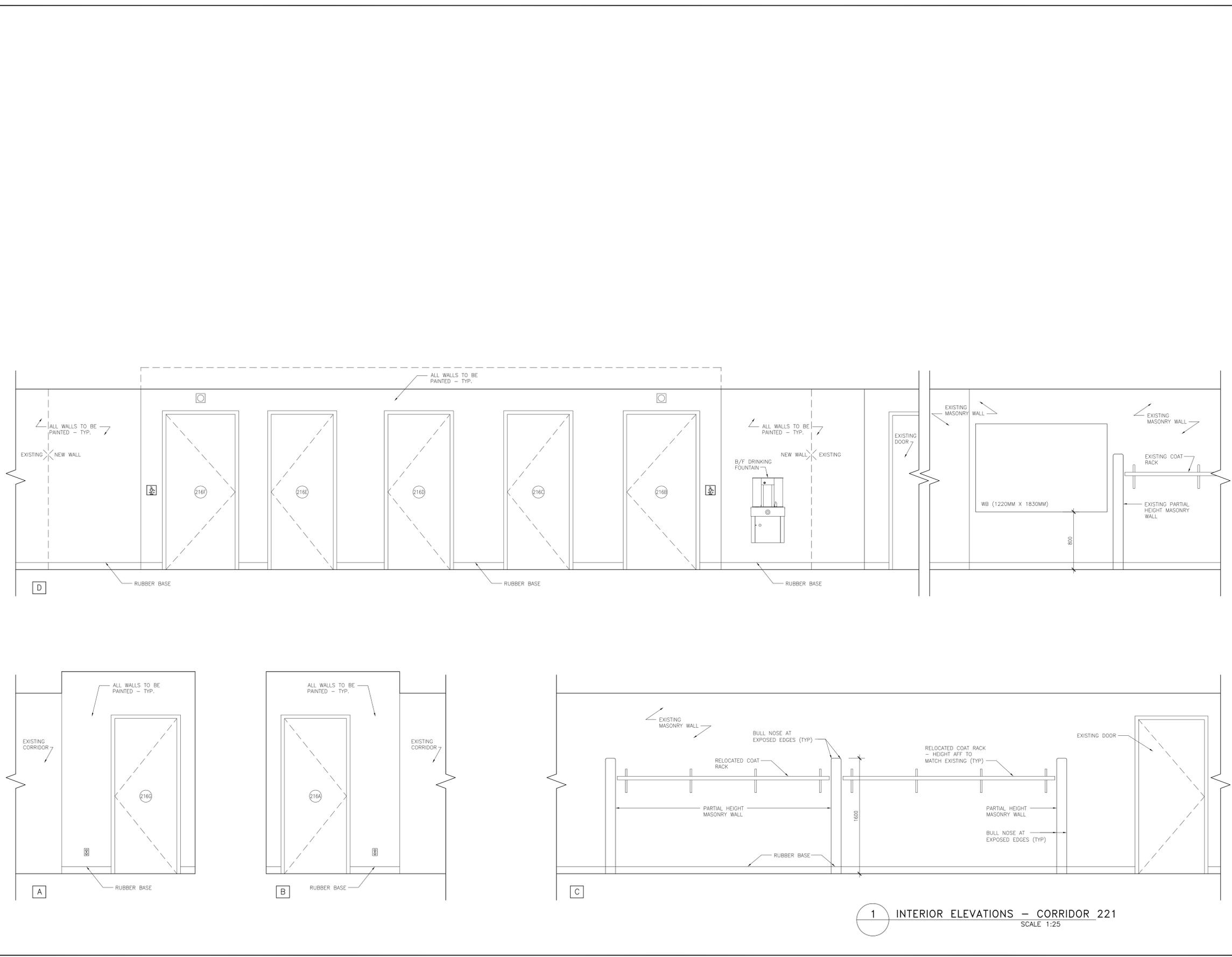
Revisions, Issues

Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
 855 ROUNDELAY DR.
 OSHAWA, ON L1J 7V1

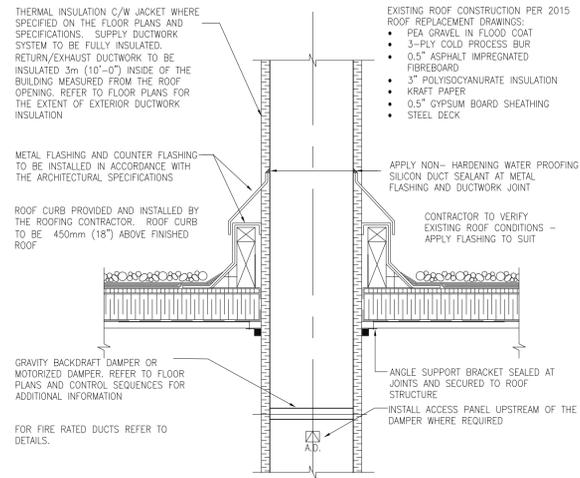
Title:
 INTERIOR ELEVATIONS

Scale: As Noted	Date: JAN 6 2025	Drawing: A403
Project: 24-50	Drawn By:	

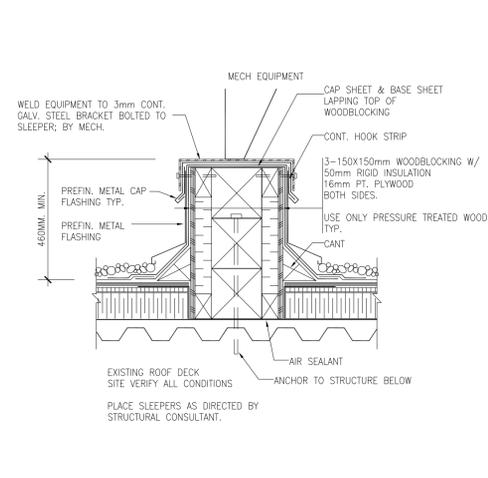
DATE PLOTTED: JAN 31 2025



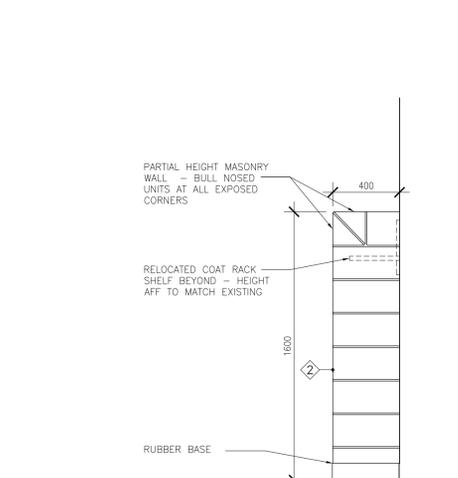
• PLOT SCALE 1:25 AT 11x17" SHEET SIZE. READ DRAWINGS ACCORDINGLY.
 • PLOT SCALE 1:25 AT 11x17" SHEET SIZE. READ DRAWINGS ACCORDINGLY.



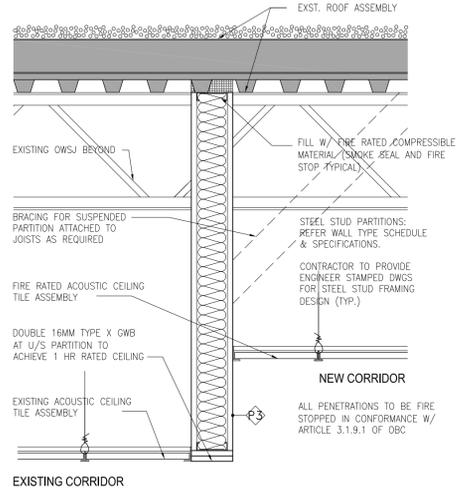
11 DUCTWORK ROOF PENETRATION AND FLASHING
SCALE NTS



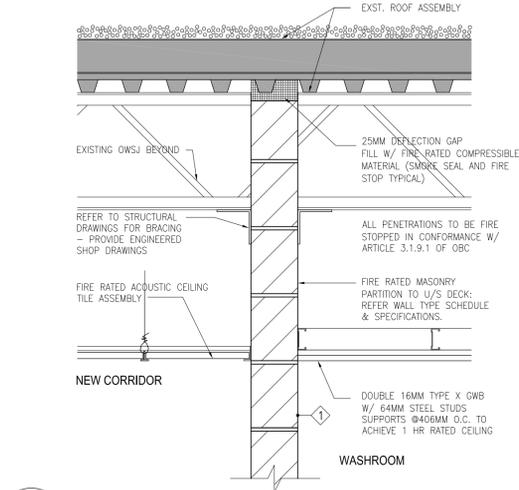
10 ROOF CURB AT MECH EQUIPMENT
SCALE NTS



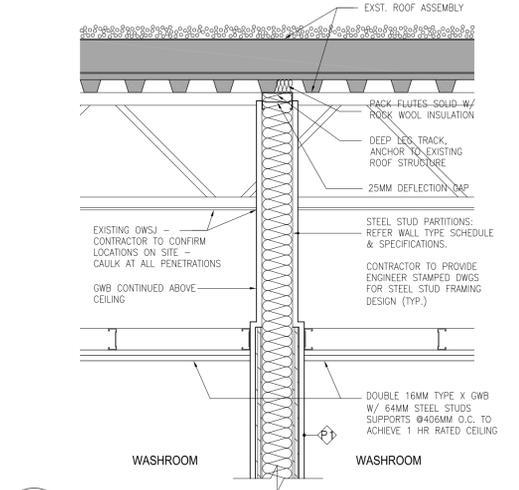
9 COAT RACK DIVIDING WALL
SCALE 1:20



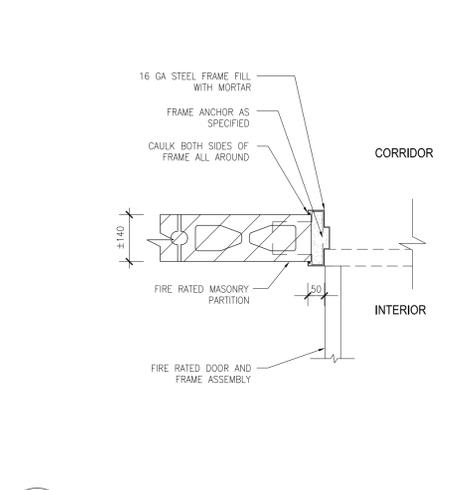
8 CEILING AT CORRIDOR
SCALE 1:10



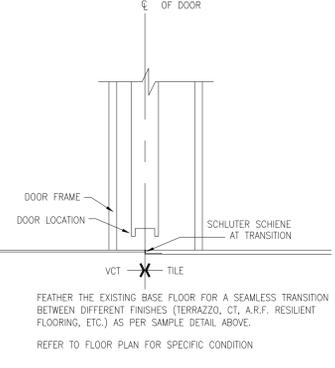
7 TYP. MASONRY PARTITION AT WASHROOMS
SCALE 1:10



6 TYP. GWB PARTITION AT WASHROOMS
SCALE 1:10

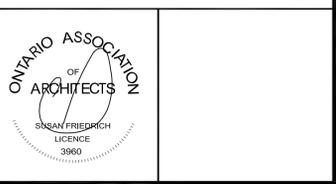


5 TYP. DOOR JAMB AT MASONRY WALL
SCALE 1:10



1 TYPICAL FLOOR TRANSITION AT DOOR
SCALE 1:10

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2	JAN 31 2025	ISSUED FOR PERMIT AND TENDER
1	JAN 22 2025	ISSUED FOR CLIENT REVIEW

Revisions, Issues

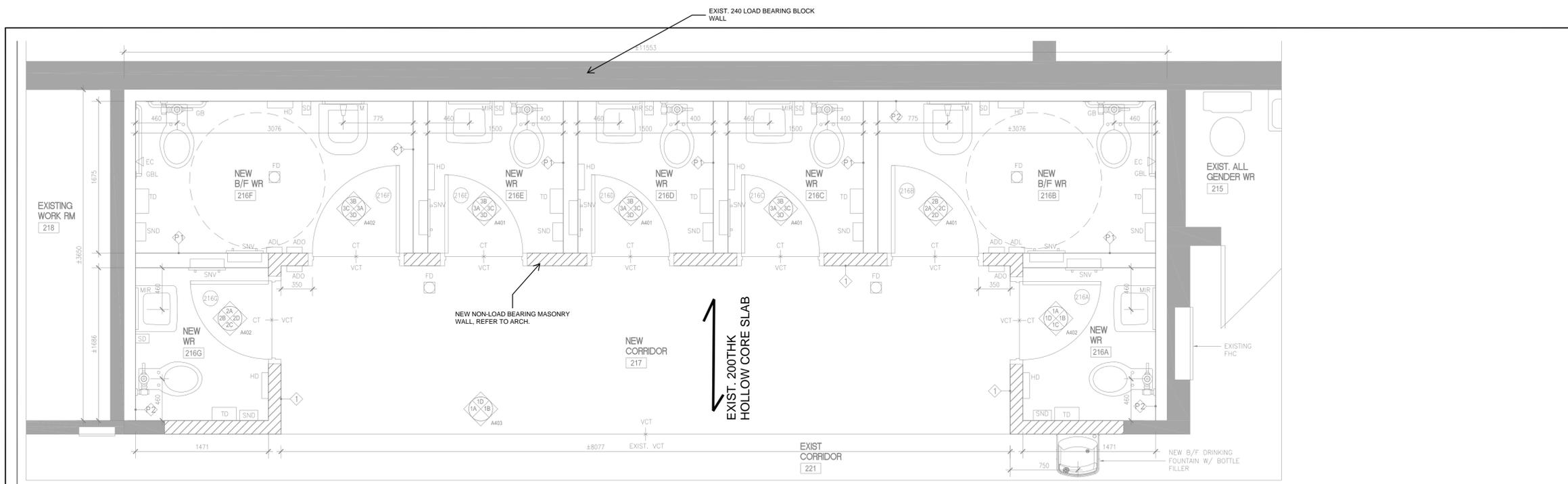
Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
855 ROUNDELAY DR.
OSHAWA, ON L1J 7V1
T25-10

Title: DETAILS

Scale:	Date:	Drawn:
As Noted	JAN 6 2025	A502
Project:	Drawn By:	
24-50		

DATE PLOTTED: JAN 31 2025

*PLOT SCALE IS 1:10 *PLOT SHEET SIZE READ DRAWINGS ACCORDINGLY *PLOT SCALE IS 1:10 AT 11x17 SHEET SIZE READ DRAWING ACCORDINGLY



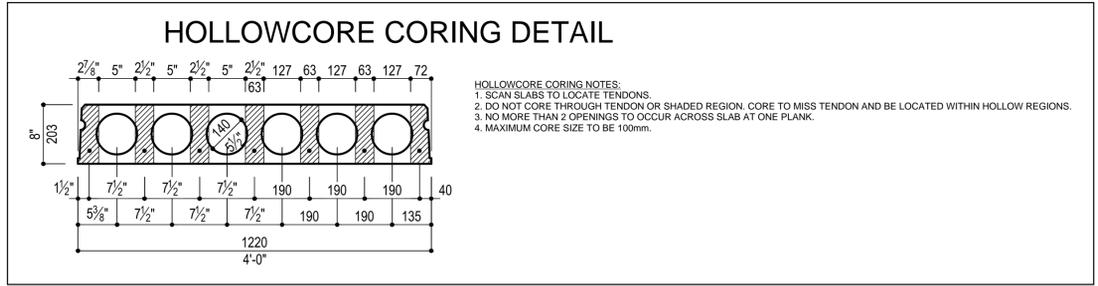
L2 PART PLAN

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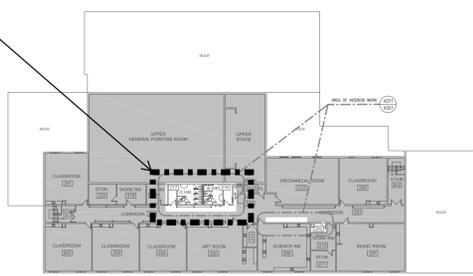
LICENSED PROFESSIONAL ENGINEER
 I. BREGASI
 10566556
 2025-02-09
 PROVINCE OF ONTARIO

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AREA OF WORK



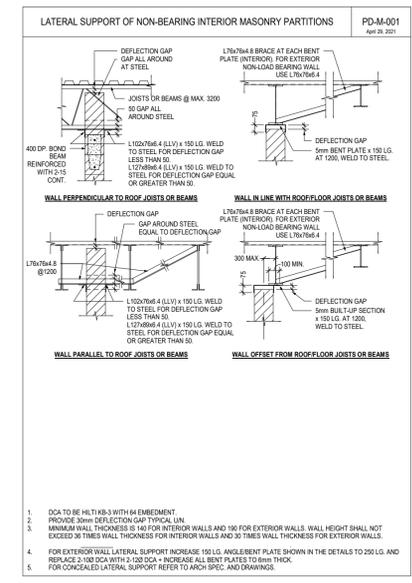
L2 KEY PLAN

TYPICAL MASONRY LINTELS IN NON-LOAD BEARING WALLS

MD-300
 03/08/2010

WALL THICKNESS	SPAN	BLOCK/LINTEL DEPTH	REINFORCEMENT TOP & BOTTOM
8" (203)	UP TO 100 (4'-0")	100	1-1/2"
	100 (4'-0") TO 160 (5'-0")	N/A	N/A
	160 (5'-0") TO 240 (8'-0")	N/A	N/A
14" (356)	UP TO 100 (4'-0")	140	1-1/2"
	100 (4'-0") TO 160 (5'-0")	100	1-1/2"
	160 (5'-0") TO 240 (8'-0")	140	1-1/2"
16" (406)	UP TO 100 (4'-0")	160	1-1/2"
	100 (4'-0") TO 160 (5'-0")	160	1-1/2"
	160 (5'-0") TO 240 (8'-0")	160	1-1/2"
24" (610)	UP TO 100 (4'-0")	240	1-1/2"
	100 (4'-0") TO 160 (5'-0")	240	1-1/2"
	160 (5'-0") TO 240 (8'-0")	240	1-1/2"
28" (711)	UP TO 100 (4'-0")	280	1-1/2"
	100 (4'-0") TO 160 (5'-0")	280	1-1/2"
	160 (5'-0") TO 240 (8'-0")	280	1-1/2"

NOTES:
 1. DO NOT USE MASONRY LINTELS FOR SPANS WHERE MOVEMENT JOINTS ARE REQUIRED. LINTELS SHALL BE LOCATED LESS THAN 1/3 OF THE LINTEL SPAN FROM EACH END OF THE SPAN.
 2. REINFORCEMENT SHALL BE PLACED AS SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENING LOCATIONS.
 3. USE FINISHED FLOOR FINISH.
 4. FILL LINTEL BLOCKS WITH GRAVEL DRAIN. IT IS NOT ACCEPTABLE TO FILL LINTELS WITH WOOD.



2 2025/01/31 ISSUED FOR PERMIT AND TENDER
 1 JAN -- 2025 ISSUED FOR CLIENT REVIEW

Revisions, Issues

Project:
WASHROOM RENOVATIONS
STEPHEN G. SAYWELL PS
 855 ROUNDELAY DR.
 OSHAWA, ON L1J 7V1

Title:

Scale: As Noted Date: 2025-02-05 Drawing: S1
 Project: 24-50 Drawn By: IB

DATE PLOTTED: JAN 21 2025

• PLOT SCALE: 1/8" = 1'-0" (30x30) SHEET SIZE. READ DRAWINGS ACCORDINGLY.
 • PLOT SCALE: 1/4" = 1'-0" (11x17) SHEET SIZE. READ DRAWING ACCORDINGLY.

PLUMBING FIXTURE SCHEDULE

WC-1 FLOOR MOUNTED TOILET - VITREOUS CHINA - FLUSH VALVE - BARRIER FREE
 American Standard Madera FloWise Right Height Elongated #3461.001 High Efficiency, Low consumption Toilet, white vitreous china with EverClean antimicrobial surface which inhibits the growth of stain and odor causing bacteria mold and mildew, elongated bowl, White Finish, Floor Mounted, siphon jet flush action, operates in the range of 4.2 L to 6 L (1.1 US Gal to 1.6 US Gal) per flush, condensate channel, 420mm rim height, 305 mm x 254 mm (12" x 10") water surface, elongated bowl, 54 mm (2-1/8") fully glazed internal trapway, 38 mm (1-1/2") dia. Top spud, floor outlet, bolt caps. Toilet seat not included.
 Delta TECK 81T201-48 Manual Water Closet Flush Valve, piston-operated delivering 1.28gpf (4.8L/m) volume, non-hold open handle, cast-brass body and stop.
 Centoc #2020TS 407 Toilet Seat, extra heavy duty, black finish, For elongated bowl, open front, Solid plastic. With cover, stainless steel self-austaining check hinges, metal flat washers stainless steel posts and nuts, McGuire #LFH166LKN3 Toilet Supply, Chrome plated finish polished brass, heavy duty angle stops, 13 mm (1/2") I.P.S. Inlet x 76 mm (3") long rigid horizontal nipples, V.P. Loose keys, Escutcheon and flexible copper risers.
 Provide Floor Flange. (Same material as the connecting pipe drain), with all brass bolts and with rubber gasket.

WC-2 FLOOR MOUNTED TOILET - VITREOUS CHINA - FLUSH VALVE
 American Standard Madera FloWise Elongated #3451.001 High Efficiency, Low consumption Toilet, white vitreous china with EverClean antimicrobial surface which inhibits the growth of stain and odor causing bacteria mold and mildew, elongated bowl, White Finish, Floor Mounted, siphon jet flush action, operates in the range of 4.2 L to 6 L (1.1 US Gal to 1.6 US Gal) per flush, condensate channel, 305 mm x 254 mm (12" x 10") water surface, elongated bowl, 54 mm (2-1/8") fully glazed internal trapway, 38 mm (1-1/2") dia. Top spud, floor outlet, bolt caps. Toilet seat not included.
 Delta TECK 81T201-48 Manual Water Closet Flush Valve, piston-operated delivering 1.28gpf (4.8L/m) volume, non-hold open handle, cast-brass body and stop.
 Centoc #1500STCCSS 407 Toilet Seat, extra heavy duty, for elongated bowl, black finish, open front, solid plastic, less cover, stainless steel self-austaining check hinges, metal flat washers stainless steel posts and nuts.
 McGuire #LFH166LKN3 Toilet Supply, Chrome plated finish polished brass, heavy duty angle stops, 13 mm (1/2") I.P.S. Inlet x 76 mm (3") long rigid horizontal nipples, V.P. Loose keys, Escutcheon and flexible copper risers.
 Provide Floor Flange. (Same material as the connecting pipe drain), with all brass bolts and with rubber gasket.

LV-1 WALL HUNG BASIN - SINGLE HANDLE FAUCET - BARRIER FREE
 American Standard Murro with EverClean #0954.004EC 6200662.000EC.020 Basin, 3 holes, 4" (102 mm) center, 540 mm x 520 mm x 165 mm (21-1/4" x 20-1/2" x 6-1/2") high, Vitreous china, White Finish, for carrier with concealed arms, Rear overflow, recessed self-draining faucet ledge, semi-pedestal P-trap cover.
 Moen Commercial #8884 M-Press faucet with 4" deck plate, chrome plated brass construction, vandal resistant, ADA lever style handle, cycle time adjustment from 5 to 60 seconds, 0.5 gpm (1.9L/min) vandal-resistant multi-stream laminar flow limits water discharge to a maximum of 0.25 gpc (0.96L/cycle) @ 30 seconds or 0.20 gpc (0.76L/cycle) @ 24 seconds.
 McGuire #LFH165LKN3 Faucet Supplies, Chrome plated finish polished brass, heavy duty angle stops, 10 mm (3/8") I.P.S. Inlet x 76 mm (3") long rigid horizontal nipples, V.P. Loose keys, Escutcheon and flexible copper risers.
 McGuire #8872C P-Trap, heavy cast brass adjustable body, with slip nut, 32 mm (1-1/4") size, Shallow wall flange and Seamless tubular wall bend.
 McGuire #PRDWRAP #PW2000 Sanitary Covering vandal-resistant, flexible seamless moulded closed-cell PVC resin, formulated with antimicrobial additive to limit the growth of fungus and bacteria, to exposed piping (to protect against heat/contusions) as per local codes.

Watts #WCA-411 Basin Carrier, concealed arms, wall flanges to attach to backing plate secured in wall with locking device and levelling screws, heavy gauge steel uprights with integral welded feet. For one unit: 102 mm (4") for two to six units in a row: 152 mm (6") finished metal stud wall to back of pipe space.

LV-2 WALL HUNG BASIN - SINGLE HANDLE FAUCET
 American Standard Lucerne #0355.912.020 Basin Sealed overflow, 3 holes, 4" (102 mm) center, 521 mm x 464 mm x 308 mm (20-1/2" x 18-1/4" x 12-1/8") high, Vitreous china, White Finish, for carrier with concealed arms, self-draining faucet edge, contoured back and side splash shield. Moen Commercial #8884 M-Press faucet with 4" deck plate, chrome plated brass construction, vandal resistant, ADA lever style handle, cycle time adjustment from 5 to 60 seconds, 0.5 gpm (1.9L/min) vandal-resistant multi-stream laminar flow limits water discharge to a maximum of 0.25 gpc (0.96L/cycle) @ 30 seconds or 0.20 gpc (0.76L/cycle) @ 24 seconds.
 McGuire #LFH170BV Faucet Supplies, Chrome plated finish polished brass, commercial 1/4 turn ball valve angle stops, 13 mm (1/2") I.D. Inlet x 127 mm (5") horizontal extension tubes, convertible 1/4 turn/loose key handles, Escutcheon and flexible copper risers.
 McGuire #8872C P-Trap, heavy cast brass adjustable body, with slip nut, 32 mm (1-1/4") size, Shallow wall flange and Seamless tubular wall bend.
 Watts #WCA-411 Basin Carrier, concealed arms, wall flanges to attach to backing plate secured in wall with locking device and levelling screws, heavy gauge steel uprights with integral welded feet. For one unit: 102 mm (4") for two to six units in a row: 152 mm (6") finished metal stud wall to back of pipe space.

DF-1 - COMBINATION DRINKING FOUNTAIN/BOTTLE FILLING
 Murdock Model No. A191.8-UG-BF12, non-refrigerated, filtered, lead-free, wall mounted combination drinking fountain and bottle filling station with vandal resistant and anti-microbial flexible bubbler, stainless steel finish, stainless steel bowl, barrier free ADA compliant, 8 GPH delivery, push button activation.

TMV-1 - THERMOSTATIC MIXING VALVE - POINT-OF-USE
 Lawler TMM-1070, bronze body construction, high temperature limit stop with shut off temperature of 118° (+/- 3°F), integral rubber duck-bill back-flow checks within inlets, temperature adjustment dial, thermostatic mechanical mixing valve with outlet temperature range within 95-119°F (35-49°C), ASSE 1070 approved, valve shall control temperature from a low of 1/2gpm, 1gpm at 10psi and 1.6gpm at 20psi drop across the valve, 3/8" O compression fit inlets and outlets, ASSE Lead Free Certified.
 Alternates: Symmons, Powers, Leonard, RAD4.

FD - FLOOR DRAINS - FINISHED AREA - ADJUSTABLE STRAINER
 Watts #FD-100-C-7-A5-1 Floor Drain - epoxy coated, cast iron body, reversible flashing clamp with primary and secondary weepholes, trap primer connection with plug, no hub outlet. Watts-A5-1 5" (127mm) diameter, nickel bronze, adjustable, round strainer.
 Alternates: Zum, J.R. Smith

CO - CLEANOUTS / ACCESS COVERS - ADJUSTABLE CLEANOUTS
 Watts #CO-200-R-34G Cleanout - epoxy coated, cast iron body, with 5" (127mm) round, adjustable, gasketed, nickel bronze top, ABS plug with neoprene gasket, no hub outlet.
 Alternates: Zum, J.R. Smith

ACCESS DOORS/COVERS - FLUSH ACCESS DOOR - UNIVERSAL
 Acudor #UF-5000 Universal Access Doors, 14 GA. (1.7mm) steel, baked enamel prime coat, continuous concealed hinge, with positive and self-opening screwdriver operated lock. Doors in washroom shall be stainless steel. All other panels shall be baked enamel prime coated for field painting. Minimum size of panels shall be 12" x 18" (300mm x 450mm). Wherever possible 24" x 24" (600mm x 600mm) panels shall be used.

WATER HAMMER ARRESTORS - PPP SC SERIES
 SMS INC. #SC Series Water Hammer Arrestors with brass piston in a type "K" copper casing size according to manufacturer's recommendations to eliminate water hammer and shock from piping system. Provide Water Hammer Arrestors on hot and cold water supplies to all quick valves, solenoids, and plumbing fixtures, and locate in an upright position between the last two fixtures on a line, or horizontally at the end of line closest to supply source. On projects exceeding five stories in height, provide water hammer arrestors on domestic water risers as follows. Locate arrestors at the end of riser opposite supply source.

TSP - TRAP SEAL PRIMERS
 Sioux Chief #695-ES01, surface mount electronic trap primer, single outlet, solenoid valve, vacuum breaker, configurable electronic primer controller, water hammer arrestor, 120VAC power, 1/2" (13mm) inlet and outlet. Provide manifold as required to suit number of traps.

HB-1 - HOSEBIBB
 Watts #SCB-1 Hydrant - cast brass, wall mount. Watts Model 8B tamper-proof vacuum breaker with break-away screw, adjustable packing nut cartridge, no kink faucet, 1/2" (13 mm) male NPT of copper sweat connection with tee handle.

PLUMBING NOTES:

1. PROVIDE BEFORE AND AFTER SCOPING/FLUSHING.
2. PROVIDE CLEANOUTS AS REQUIRED BY CODE. SIZE OF CLEANOUTS TO BE SAME SIZE AS SANITARY LINES.
3. PROVIDE ALL TRENCHING, EXCAVATING AND BACKFILL FOR UNDERGROUND PLUMBING. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR IS BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
4. PROVIDE NEW PLUMBING VENTS THROUGH SECOND FLOOR AND THROUGH ROOF AS REQUIRED BY CODE OR TIE INTO EXISTING WHERE POSSIBLE. SUPPLY AND INSTALL ROOF VENTS AS PER SPECIFICATIONS. ALL ROOFING WORK INCLUDING CUTTING, FLASHING AND MODIFICATIONS TO ROOF MEMBRANE SHALL BE BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
5. PROVIDE ISOLATION VALVES AT ALL FIXTURES.
6. INSULATE ALL NEW DOMESTIC HOT, COLD AND TEMPERED WATER PIPING WITH 1"(25mm) INSULATION. PROVIDE PVC JACKET OVER INSULATION IN EXPOSED AREAS.
7. ALL NEW HOSE BIBBS TO BE COMPLETE WITH VACUUM BREAKERS.
8. PROVIDE BALANCING VALVES AT START OF EACH BRANCH OF ALL HOT OR TEMPERED WATER RECIRCULATION LOOPS.
9. PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FIT VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
10. PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH CANULC-S115.
11. COORDINATE EXACT LOCATION OF NEW FLOOR DRAINS WITH GENERAL CONTRACTOR TO SUIT FLOOR SLOPE.
12. PROVIDE TRAP SEAL PRIMER FOR ALL FLOOR DRAINS USING PRIMER SPECIFIED IN PLUMBING FIXTURE SCHEDULE. PRIMERS SHALL BE CONCEALED, MOUNT IN CEILING SPACE AND RUN LINE CONCEALED DOWN WALL AND UNDER FLOOR TO DRAIN.
13. LABEL ALL NEW PIPING COMPLETE WITH SERVICE AND FLOW ARROWS. LABELS SHALL BE MAX 3m(10') SPACING AND ON EITHER SIDE OF WALLS.
14. SUPPLY ACCESS DOORS WHERE REQUIRED AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. REFER TO PLUMBING FIXTURE SCHEDULE.
15. PROVIDE ESCUTCHEONS AROUND WATER AND SANITARY PIPING THROUGH WALL, FLOOR OR MILLWORK AT ALL FIXTURES.
16. LABEL CEILING GRID AT ACCESS TO ALL DEVICES.
17. FLUSH AND PERFORM A VIDEO INSPECTION OF ALL UNDERGROUND PIPING SYSTEMS AFTER CONSTRUCTION AND IMMEDIATELY PRIOR TO APPLYING FOR SUBSTANTIAL COMPLETION.
18. PERFORM DOMESTIC WATER QUALITY TEST AFTER ALL NEW PLUMBING WORK. SUBMIT CERTIFICATE OF ANALYSIS FROM CERTIFIED TESTING AGENCY TO CONSULTANT AND INCLUDE IN CLOSEOUT DOCUMENTATION.

PLUMBING SPECIFICATIONS:

1. ALL PLUMBING PRODUCTS SHALL BE "LEAD-FREE" CERTIFIED TO ANS/ISF 372.
2. ALL NEW ABOVE GROUND WATER PIPING SHALL BE TYPE 1" HARD COPPER, CERTIFIED TO ASTM B88, WITH SOLDER JOINTS. EXCEPT DOMESTIC HOT WATER RECIRCULATION PIPING SHALL BE TYPE "K" HARD COPPER.
3. DRAINAGE SYSTEM (ABOVE GROUND):
 - 1 2-1/2"(63mm) AND OVER - CAST IRON MJ PIPE WITH MJ FITTINGS AND STAINLESS STEEL CLAMPS.
 - 2 1"(50mm) AND UNDER - COPPER DWV PIPE WITH WROUGHT COPPER SOLDER FITTINGS OR IPEX XFB OR PVC DWV.
4. DRAINAGE SYSTEM (UNDERGROUND):
 - 1 PIPE UP TO AND INCLUDING 75mm(3") SHALL BE:
 - 1 ULC CERTIFIED PVC 40 DWV PIPE TO CANCSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CANCSA B181.2 WITH SOLVENT WELD JOINT.
 - 2 PIPE 75mm(3") UP TO AND INCLUDING 100mm(4") SHALL BE:
 - 1 ULC CERTIFIED PVC 40 DWV PIPE TO CANCSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CANCSA B181.2 WITH SOLVENT WELD JOINT, OR
 - 2 ULC CERTIFIED PVC SDR 26/35 B05 PIPE TO CANCSA B182.1 COMPLETE WITH PVC B05 FITTINGS TO CANCSA B182.2 WITH SOLVENT WELD JOINTS.
 - 3 PIPE 125mm(6") AND UP SHALL BE:
 - 1 ULC CERTIFIED PVC SDR 26/35 SEWER PIPE TO CANCSA B182.2 COMPLETE WITH PVC FITTINGS TO CANCSA B182.2 WITH RING GASKET JOINTS.
 - 2 VENTS PASSING THROUGH ROOF SHALL USE HEAVY GAUGE, SEAMLESS, SPUN ALUMINUM PRE-INSULATED, VANDAL PROOF VENT FLASHING AS SUPPLIED BY NATIONAL ROOFING SUPPLY OR THALER METAL.
 - 3 PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
 - 4 PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
 - 5 PROVIDE ONE (1) ELECTRONIC COPY OF MAINTENANCE MANUAL BY WEB TRANSFER AND ON USB. MANUAL SHALL INCLUDE:
 - TABLE OF CONTENTS
 - CONTRACTOR INFORMATION
 - WARRANTY LETTER
 - SHOP DRAWINGS
 - O&Ms
 - INSPECTION & TEST REPORTS
 - AS-BUILT DRAWINGS
 AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS SHALL BE STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS). DRAWINGS SHALL BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.
 - 6 ALL NEW PIPE HANGERS SHALL BE:
 - 1 EPOXY COATED CLEVIS TYPE WITH THREADED SUSPENSION RODS WHERE HANGER DIRECTLY TOUCHES PIPING.
 - 2 ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS WHERE HANGERS WRAP AROUND OUTSIDE OF PIPE INSULATION. PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION EXCEPT FOR SIZES LESS THAN/EQUAL TO 1-1/4". INSULATION CAN WRAP AROUND HANGERS.
 - 3 PIPE HANGER SPACING
 - SIZES UP TO 1-1/4"(32mm) = 8'(2.5m) SPACING
 - SIZES 1-1/2"(38mm) TO 2"(50mm) = 10'(3m) SPACING
 - SIZES 2-1/2"(63mm) AND OVER = 12'(3.5m) SPACING
 - 4 PROVIDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW
 7. PROVIDE A SUPPLY SHUT OFF VALVE ON HOT, COLD AND/OR TEMPERED WATER SUPPLY TO EACH FIXTURE. SUPPLY SHUT OFF SHALL BE EQUAL TO MCGUIRE H105. ALL VALVES SHALL BE LINE SIZE.
 8. VALVE TYPE:
 - 1 2" AND UNDER: BALL VALVE
 9. BALL VALVES SHALL BE LEAD FREE WITH SOLDERED OR THREADED ENDS. BALL VALVES SHALL BE EQUAL TO KITZ #858 & #859. ALL VALVES SHALL BE LINE SIZE.
 10. CHECK VALVES SHALL BE LEAD FREE. CHECK VALVES 2" AND SMALLER SHALL BE EQUAL TO KITZ #822 & #823 WITH SOLDER OR THREADED ENDS.
 11. CIRCUIT BALANCING VALVES SHALL BE LEAD FREE. PROVIDE A CBV ON EACH DOMESTIC RECIRCULATION LOOP. CIRCUIT BALANCING VALVES SHALL BE MITA BBV LF OR 76X SERIES (NO ALTERNATES ACCEPTABLE), MOUNT WITH PORTS UPRIGHT OR AT LEAST 90° UP FROM BOTTOM. SUBMIT SHOP DRAWINGS COMPLETE WITH VALVE SIZING SCHEDULE (CBVS MAY BE SMALLER THAN LINE SIZE).
 12. FLEXIBLE SUPPLIES ARE NOT ACCEPTABLE FOR FLUSH TANK TOILETS OR ANY EXPOSED INSTALLATION, WHERE SUPPLIES ARE INSTALLED UNDER COUNTER OR BEHIND SHROUDS FLEXIBLE SUPPLIES ARE ACCEPTABLE.
 13. REFER TO PLUMBING FIXTURE SPECS INCLUDING FIXTURES, TRAP SEAL PRIMERS, WATER HAMMER ARRESTORS, ACCESS DOORS, ETC.
 14. INSULATION:
 - 1 EXTERNAL PIPE INSULATION SHALL BE RIGID, SECTIONAL FIBERGLASS TYPE AND BE COMPLETE WITH FACTORY APPLIED ALL PURPOSE VAPOUR BARRIER. PRE-FORMED INSULATION SHALL BE USED AT PIPE FITTINGS, VALVES, ETC. PROVIDE NON-CRUSHING INSULATION AT ALL PIPE HANGERS AND PROVIDE SADDLES.
 - 2 INSULATE DCW, DHW, DRW AND DTW PIPING.
 - 3 INSULATE VENT LINES 1.5m BACK FROM ROOF.
 - 4 INSULATION THICKNESS: 1"(25mm)
 15. ACCESS DOORS/COVERS
 - 1 FLUSH ACCESS DOOR - UNIVERSAL: ACUDOR #UF-5000 UNIVERSAL ACCESS DOORS, 14 GA. (1.7mm) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN WASHROOMS SHALL BE STAINLESS STEEL. ALL OTHER PANELS SHALL BE BAKED ENAMEL PRIME COATED FOR FIELD PAINTING. MINIMUM SIZE OF PANELS SHALL BE 12"x18" (300mmx450mm). WHEREVER POSSIBLE 24"x24" (600mmx600mm) PANELS SHALL BE USED.
 - 2 RECESSED ACCESS DOOR - DRYWALL AREA: ACUDOR #DW-5015 SERIES RECESSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME COAT, WITH CONCEALED PIVOTING ROD TYPE HINGE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8" (14mm) TO RECEIVE DRYWALL. FLANGE OF DOOR TO BE GALVANIZED STEEL FOR FIELD PAINTING TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS.

GENERAL NOTES:

1. WORK TO BE COMPLETED OUTSIDE REGULAR HOURS:
 - 1 ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL OR OCCUPANT ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTERRUPTIONS, WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBRATIONS, WORK THAT GENERATES FUMES/SMELLS, ETC.
 - 2 ANY WORK INSIDE OR OUTSIDE, THAT CREATES RISK TO BUILDING OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS.
 - 3 ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.
2. OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
3. THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
4. OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY WORK BEING DONE.
5. PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WITH ELECTRICAL AND/OR SITE, EQUIPMENT PERFORMANCE, DIMENSIONS AND CLEARANCES.
6. THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
7. INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
8. DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL. WHERE SYSTEMS ARE USED AND ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN A MANNER ACCEPTABLE TO THE CONSULTANT.
9. MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
10. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
11. REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
12. ALL CUTTING AND CORING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR. TRENCHING, EXCAVATION AND BACKFILL FOR UNDERGROUND PLUMBING SHALL BE BY THIS CONTRACTOR. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
13. COORDINATE ROOFING FOR DUCT AND PIPE ROOF PENETRATIONS WITH GENERAL CONTRACTOR. PROVIDE PITCH POCKETS FOR ALL SERVICES THROUGH ROOF UNLESS SERVICES CAN BE FED THROUGH BASE OF EQUIPMENT.
14. ANY FEED TO NEW ROOFTOP EQUIPMENT SHALL BE INSTALLED WITH GOOSENECK STYLE PITCH POCKET EQUAL TO THALER METAL MEF-2A OR DOGHOUSE. SIZE AS REQUIRED TO SUIT FEED.
15. MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
16. TAG ALL EQUIPMENT WITH LAMACOID NAMEPLATES. TAG ALL VALVES WITH LAMACOID NAMEPLATES OR BRASS TAGS ON CHAINS.
17. LABEL ALL NEW PIPING WITH SERVICE AND FLOW ARROWS EVERY 10'(3m) AND ON EITHER SIDE OF WALLS.
18. THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS BY THE ENGINEER PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
19. PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE, THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.
20. INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATION OF THE SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTENDEES.
21. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATING ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
22. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
23. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
24. PROVIDE ONE (1) ELECTRONIC COPY OF MAINTENANCE MANUAL BY WEB TRANSFER AND ON USB. MANUAL SHALL INCLUDE:
 - TABLE OF CONTENTS
 - CONTRACTOR INFORMATION
 - WARRANTY LETTER
 - SHOP DRAWINGS
 - O&Ms
 - INSPECTION & TEST REPORTS
 - AS-BUILT DRAWINGS
 AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS SHALL BE STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS). DRAWINGS SHALL BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.

PLUMBING LEGEND	
—	NEW
---	EXISTING
-----	DEMOLITION
---AS-----AS---	DEMO ABOVEGROUND SANITARY
-----DCW	DOMESTIC COLD WATER (DCW)
-----DHW	DOMESTIC HOT WATER (DHW)
-----DRW	DOMESTIC HOT WATER RECIRC (DRW)
---UG---UG---	DOMESTIC WATER UNDERGROUND (UG)
---AS---AS---	ABOVEGROUND SANITARY LINE
---S---S---	UNDERGROUND SANITARY LINE
---P---P---	PLUMBING VENT
---F---F---	FIRE PROTECTION LINE
FD	FLOOR DRAIN
---CO---CO---	STACK / FLOOR CLEANOUT
---HB---	HOSEBIBB (HB)
(WC-1)	FIXTURE TAG
---O---	ELBOW RISING
---D---	ELBOW DROPPING
---R---	BRANCH RISING FROM TEE
---D---	BRANCH DROPPING FROM TEE
---B---	SHUT-OFF BALL VALVE

MECHANICAL ABBREVIATIONS			
EX	EXISTING TO REMAIN		
AFF	ABOVE FINISHED FLOOR		
CTE	CONNECT TO EXISTING		
C/W	COMPLETE WITH		
HB	HOSE BIBB		
TMV	THERMOSTATIC MIXING VALVE		
TSP	TRAP SEAL PRIMER		

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No.	Date	Description	By
1	2025-02-05	Issued for Permit & Tender	BRT
0	2025-01-22	Issued for Client Review	BRT

STAMPS



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CLIENT:

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 Ignite Learning

PROJECT NAME:
 WASHROOM RENOVATION AT
 STEPHEN G. SAYWELL PS
 855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
 PLUMBING
 LEGENDS AND NOTES

DISCIPLINE:	
PLUMBING	
DRAWN BY: MRC	SCALE: N/T/S
DESIGNED BY: BRT	DATE: 2025/01/22
APPROVED BY: BRT	APPROVER:
PROJECT No: Z0020280	DRAWING No: P-001
SHEET No:	1 of 8

GENERAL NEW PLUMBING NOTES:

- WORK TO BE COMPLETED OUTSIDE REGULAR HOURS.
 - ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL OR OCCUPANT ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTERRUPTIONS, WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBRATIONS, WORK THAT GENERATES FUMES/SMELLS, ETC.
 - ANY WORK INSIDE OR OUTSIDE THAT CREATES RISK TO BUILDING OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS.
 - ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.
- THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO CONSULTANT.
- PRE-CONSTRUCTION PHOTOS: THE CONTRACTOR SHALL TAKE PHOTOS OF THE SITE, BUILDING, SERVICES AND FINISHES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH PHOTOS SHALL INCLUDE ALL AREAS THAT FORM A PART OF THE CONSTRUCTION, BOTH INTERIOR AND EXTERIOR, AND WILL PROVIDE RECORD OF THE GENERAL CONDITION OF THE SITE PRIOR TO CONSTRUCTION. PHOTOS SHALL BE SHARED WITH THE OWNER AND CONSULTANT PRIOR TO ANY CONSTRUCTION STARTING.
- SCOPE/CAMERA EXISTING UNDERGROUND SANITARY AND STORM PIPING THROUGH WORK AREA TO CONFIRM CONDITION OF PIPE, ROUTING AND INVERTS. SUBMIT REPORT AND VIDEO ON USB.
- SCAN FLOOR PRIOR TO FLOOR CUTS AND UNDERGROUND PIPING INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
- COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
- COVER ALL FLOOR DRAINS DURING CONSTRUCTION TO PREVENT DEBRIS FROM FALLING IN DRAINS.
- PROVIDE NEW PLUMBING VENTS THROUGH SECOND FLOOR AND THROUGH ROOF AS REQUIRED OR TIE INTO EXISTING WHERE POSSIBLE.
- INSULATION AND LABEL ALL NEW PIPING WITHIN CEILING SPACE IN AREA OF WORK.
- FIRE STOP ALL NEW PIPING THROUGH RATED WALLS AND FLOORS IN AREA OF WORK.
- SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES CONCEALED BEHIND DRYWALL AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.
- THE CONTRACTOR SHALL FLUSH, SCOPE, AND PROVIDE VIDEO INSPECTION OF THE SANITARY SYSTEM AFTER COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION. FLUSHING, SCOPING AND VIDEO SHALL INCLUDE AREA OF WORK TO WHERE IT TIES INTO THE MAIN. SUBMIT REPORT AND VIDEO ON USB.

WORKING NOTES - 2ND FLOOR:

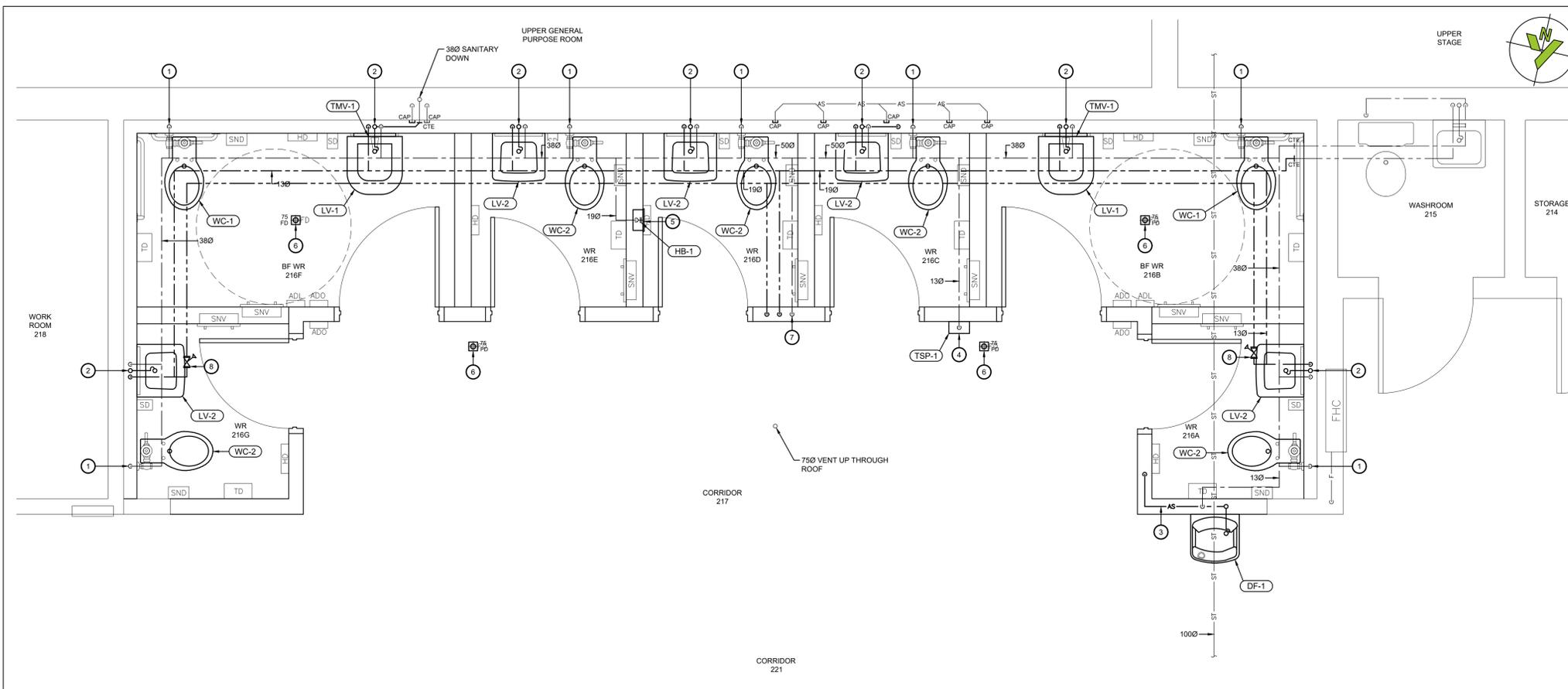
- 250 DCW DOWN IN CHASE TO NEW FLOOR MOUNTED FLUSH VALVE WATER CLOSET. RUN SANITARY DOWN THROUGH FLOOR TO CEILING SPACE BELOW. COORDINATE ALL CORING AND FLOOR CUTTING WITH GENERAL CONTRACTOR.
- 130 DCW & DHW DOWN IN CHASE TO NEW WALL LAVATORY. RUN 130 DCW & DHW TO NEW TMV AND 130 DTW TO HOT SIDE OF FAUCET. COORDINATE INSTALLATION OF CARRIER AND MOUNTING HEIGHT WITH GENERAL CONTRACTOR. RUN NEW SANITARY DOWN THROUGH FLOOR TO CEILING SPACE BELOW.
- 130 DCW DOWN IN CHASE TO NEW COMBINATION BOTTLE FILLER/DRINKING FOUNTAIN. COORDINATE MOUNTING HEIGHT WITH GENERAL CONTRACTOR. RUN SANITARY THROUGH PARTITION WALLS UNTIL CLEAR OF CORRIDOR WALL BELOW.
- PROVIDE NEW TRAP SEAL PRIMER ABOVE CEILING IN ACCESSIBLE LOCATION. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- PROVIDE NEW HOSEBIBB WITHIN CHASE. SUPPLY NEW LOCKABLE ACCESS DOOR IN CHASE WALL AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- PROVIDE NEW FLOOR DRAIN AND CONNECT TO EXISTING SANITARY SERVICES IN CEILING SPACE BELOW.
- 500 DCW, 250 DHW & 130 DRW UP FROM GROUND FLOOR IN PARTITION WALL TO CEILING LEVEL.
- PROVIDE NEW LEAD FREE CBV AND BALANCE TO 0.5ppm.

WORKING NOTES - GROUND FLOOR:

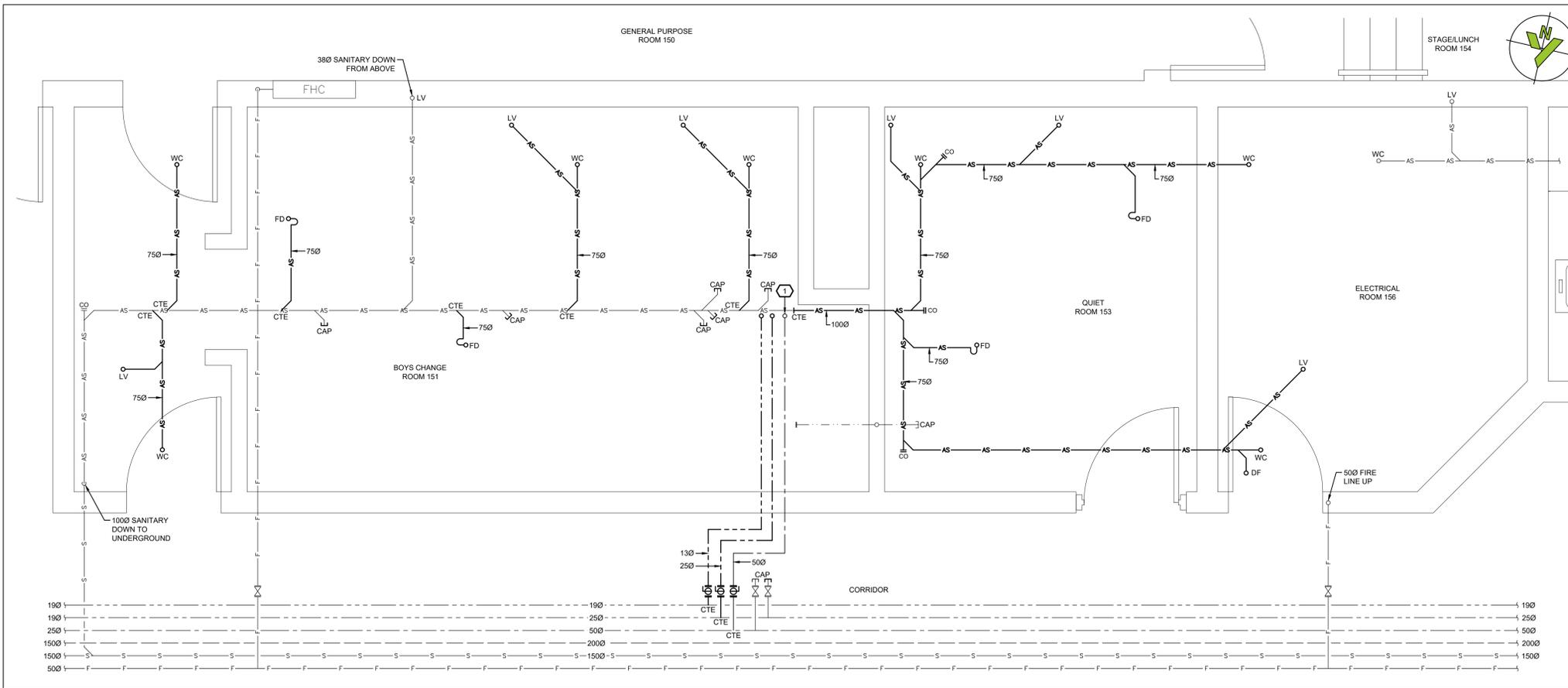
- 500 DCW, 250 DHW & 130 DRW UP TO SECOND FLOOR. FIRESTOP PIPING AT FLOOR PENETRATIONS.
- CONNECT NEW 500 DCW, 250 DHW & 130 DRW TO EXISTING SERVICES IN CORRIDOR CW ISOLATION VALVES. FIRESTOP AT WALL PENETRATIONS.

TYPICAL PLUMBING PIPE SIZING					
	DCW	DHW	DTW	SANITARY	VENT
WC (FLUSH VALVE)	250	--	--	750	380
LAVATORY	130	130	130	320	320
DRINKING FOUNTAIN	130	--	--	320	320
HOSEBIBB	190	--	--	--	--
750 FD	--	--	--	750	380
1000 FD	--	--	--	1000	380

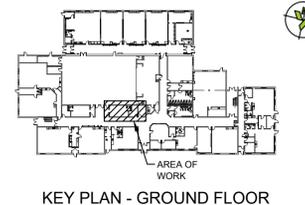
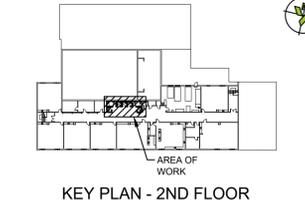
PROVIDE ISOLATION VALVES AT ALL FIXTURES



1 2ND FLOOR - NEW WASHROOMS 216A TO 216G - NEW PLUMBING LAYOUT
SCALE: 1:25



2 GROUND FLOOR - NEW PLUMBING LAYOUT
SCALE: 1:25



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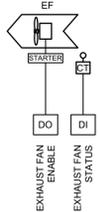
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CLIENT:
DDSB
Ignite Learning

PROJECT NAME:
WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
**GROUND FLOOR AND 2ND FLOOR
NEW WASHROOMS 216A TO 216G
NEW PLUMBING LAYOUT**

DISCIPLINE:		SCALE:	
PLUMBING		AS NOTED	
DRAWN BY: MRC	DESIGNED BY: BRT	DATE: 2025/01/22	APPROVED BY: BRT
PROJECT NO: Z0020280	DRAWING NO.:	P-101	
3 of 8			



EXHAUST FAN CONTROL SCHEMATIC (BAS CONTROL) NTS

CONTROLS SCOPE OF WORK:

- THE GENERAL (PRIME) CONTRACTOR SHALL RETAIN THE INSTALLING CONTROLS CONTRACTOR FOR ALL NEW BAS CONTROLS WORK UNDER A CASH ALLOWANCE. ONCE THE CONTRACT IS AWARDED, THE DDBS SHALL SELECT A PRE-QUALIFIED INSTALLING CONTROLS CONTRACTOR BASED ON THE SCOPE OF WORK OUTLINED ON THE DRAWINGS. THE GENERAL (PRIME) CONTRACTOR SHALL CARRY THE SUCCESSFUL INSTALLING CONTROLS CONTRACTOR AS A SUB-TRADE UNDER THE ALLOTTED CASH ALLOWANCE (REFER TO CASH ALLOWANCE SPECIFICATION).
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMO ELECTRIC (120V) CONTROLS WORK AND CONTROL WIRING ASSOCIATED WITH THE EXISTING AC UNITS.
- THE INSTALLING CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMO AND NEW BAS CONTROLS WORK.
- DDBS SHALL SUPPLY ALL REQUIRED SENSORS, RELAYS, CURRENT SWITCHES, CONTROL ENCLOSURES, AND ALL OTHER NECESSARY CONTROL DEVICES FOR A FULLY OPERATIONAL SYSTEM EXCEPT AS NOTED HEREIN AND TURN OVER TO INSTALLING CONTROLS CONTRACTOR FOR INSTALLATION. (THE EXISTING BAS SYSTEM IS SIEMENS CONTROLS).
- DDBS SHALL SUPPLY ALL ELECTRIC (24V) AND NEW BAS CONTROL VALVES AND TURN OVER CONTROL VALVE BODIES TO MECHANICAL CONTRACTOR FOR INSTALLATION. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP VALVES FROM DDBS OFFICE AND TRANSPORTING WELLS TO SITE. COORDINATE WITH DDBS.
- DDBS SHALL SUPPLY ALL NEW TEMPERATURE SENSOR WELLS AND TURN OVER TO MECHANICAL CONTRACTOR FOR INSTALLATION. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP WELLS FROM DDBS OFFICE AND TRANSPORTING WELLS TO SITE. COORDINATE WITH DDBS.
- SCOPE OF WORK SHALL INCLUDE BUT IS NOT LIMITED TO:
 - REMOVAL OF REDUNDANT CONTROLS.
 - PROVIDE NEW SPACE SENSORS, RELOCATE EXISTING SENSORS, OR REWIRE EXISTING SENSORS TO SUIT NEW CONTROLS AS REQUIRED AND AS INDICATED ON DRAWINGS.
 - PROVIDE NEW OR UPGRADE EXISTING BAS CONTROLLERS AS INDICATED AND FOR COMPLETELY FUNCTIONAL SYSTEMS. THE NEW CONTROLLERS INTO EXISTING BAS CONTROL NETWORK. RELOCATE EXISTING CONTROLLERS AS REQUIRED AND THE BACK INTO EXISTING BAS CONTROL NETWORK.
 - PROVIDE CONTROL FOR NEW EXHAUST FANS.
- MECHANICAL CONTRACTOR AND INSTALLING CONTROLS CONTRACTOR SHALL TAKE PRECAUTIONS DURING DEMOLITION AND NEW WORK TO ENSURE BAS COMMUNICATIONS WIRING REMAINS FULLY FUNCTIONAL AND OPERATIONAL DURING RENOVATION. CONTROLS CONTRACTOR SHALL PROVIDE ANY TEMPORARY WIRING REQUIRED TO MAINTAIN SYSTEM UPTIME AND INTEGRITY.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, REPAIRING, AND SEALING ANY WALLS, CEILINGS, OR EQUIPMENT WHERE EXISTING CONTROLS DEVICES ARE REMOVED. COORDINATE LOCATION AND PATCHING FOR NEW CONTROLS WITH INSTALLING CONTROLS CONTRACTOR.

AIR OUTLET SCHEDULE

TAG	A	A1	B	C
TYPE	FIRE RATED LOUVERED FACE RETURN	FIRE RATED LOUVERED FACE RETURN	SQUARE CONE RETURN	EGG CRATE RETURN
MANUFACTURER	PRICE	PRICE	PRICE	PRICE
MODEL	535-FR-(D)	535-FR-L	SCD-31-3C	80
SIZE	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS
COLOUR	B12	B12	B12	B12
NOTES	-SINGLE DEFLECTION -1/2" BLADE SPACING -CEILING FIRESTOP FLAP -STANDARD 165°F FUSIBLE LINK -ULC LISTED -W/DAMPER	-SINGLE DEFLECTION -1/2" BLADE SPACING -CEILING FIRESTOP FLAP -STANDARD 165°F FUSIBLE LINK -ULC LISTED -LESS DAMPER	-24x24 CEILING MODULE FOR T-BAR MOUNTING	-NO BORDER FOR T-BAR MOUNTING.
ALTERNATE MANUFACTURERS	METALAIRE, KREUGER			

FAN SCHEDULE

TAG		EF-217	EF-209
SERVICE		NEW WASHROOMS	CUSTODIAL 209
TYPE		ROOF MOUNTED	CEILING MOUNTED
MANUFACTURER		COOK	BROAN
MODEL		100C1SDH	L100MG
AIR FLOW	cfm	450	100
EXTERNAL STATIC	in.wc.	0.5	0.25
SOUND		61 dBA/11 SONES	2.5 @ 0.1"ESP
FAN RPM		1451	--
FAN MOTOR	hp	FRACTIONAL	FRACTIONAL
FAN TYPE		DIRECT DRIVE CW FSC	CENTRIFUGAL BLOWER
AMPS	amps	--	0.5A
ELECTRICAL	volt/ph	115/1	120/1
DIMENSIONS	inches	18-3/4 SQ x 16-13/16 H	14 SQ x 17 L
APPROX. WEIGHT	lbs	14	--
CONTROLS		-TIE INTO BAS TO RUN DURING OCCUPIED HOURS	-TIE INTO BAS TO RUN DURING OCCUPIED HOURS
ACCESSORIES		-ROOF CURB -FAN SPEED CONTROLLER -NEMA 1 DISCONNECT -BACKDRAFT DAMPER	-PLUG-IN POLYMERIC GRILLE -RESILIENT ANTI-VIBRATION MOTOR MOUNTS -6" DUCT CONNECTER ASSEMBLY -METAL GRILLE
ALTERNATE MANUFACTURERS		GREENHECK, CARNES, PENN	

NEW HOT WATER WALLFIN SCHEDULE

TAG		WF-A
MANUFACTURER		SIGMA
WALLFIN MODEL		SWE-SS
ELEMENT		ELMT-44C075
TYPE		SLOPE LOUVERED TOP OUTLET SLOPE LOUVERED BOTTOM INLET
FLUID		WATER (0% GLYCOL)
ENCLOSURE HEIGHT	in.	12
ENCLOSURE DEPTH	in.	5-1/4
ENCLOSURE LENGTH		SITE MEASURE
ENCLOSURE COLOUR		STAINLESS STEEL
ELEMENT LENGTH		REFER TO DRAWINGS
HEATING CAPACITY	btuh/ft	630
EWT/LWT	*F	160/140
NO OF TIERS/ROWS		1
COPPER TUBING DIA.	in.	3/4"
ALUMINUM FINIS	in.	4"x4"
CONTROLS		-CONTROL VALVE AND SENSOR. REFER TO DETAILS.
ACCESSORIES		-CONTINUOUS COVER CW SPACERS, JOINERS ETC. AS REQUIRED -SLOPE LOUVERED TOP OUTLET AND BOTTOM INLET
NOTES		CONTRACTOR / SUPPLIER SHALL SITE MEASURE ALL ELEMENT AND ENCLOSURE LENGTHS & HEIGHTS PRIOR TO ORDERING MATERIAL. LENGTHS & HEIGHTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
ALTERNATE MANUFACTURERS		ENGINEERED AIR, EH PRICE, TRANE

HVAC MATERIAL SPECIFICATIONS:

- DUCTWORK:
 - IN CONFORMANCE WITH SMACNA, ASHRAE, OBC, NFPA 90A.
 - SHEET METAL SHALL BE BEST QUALITY LOCK FORMING GALVANIZED SHEET METAL. GALVANIZING SHALL BE TO ASTM A525 (90), HAVING A THICKNESS OF 0.054 MM AND WEIGHING NOT LESS THAN 0.31 KG/M2 ON EACH SURFACE.
 - ALL ROUND DUCTWORK SHALL BE SPIRAL.
- DUCT ACCESS DOORS
 - DUCT ACCESS DOORS SHALL BE EQUAL TO NAILOR 085CL(SQUARE) OR 0800(OVAL), REFER TO DETAIL.
- HOT WATER HEATING PIPING:
 - PIPING UP TO INCLUDING 2"(50mm) PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH MALLEABLE STEEL THREADED SCREW FITTINGS OR COPPER WITH SOLDER JOINTS.
 - PIPING 2-1/2"(63mm) AND OVER: PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH WELDED FITTINGS.
 - BRASS ADAPTERS SHALL BE PROVIDED AT ALL CONNECTIONS BETWEEN COPPER TUBING AND FERROUS PIPING.
 - PROVIDE AUTOMATIC AIR VENTS C/W BALL VALVE AT ALL HIGH POINTS. REFER TO SPECIFICATIONS BELOW.
 - PROVIDE DRAIN VALVES C/W HOSE CONNECTION AND CAP AT ALL LOW POINTS AND AS NOTED ON DETAILS.
 - ALLOW FOR ANY CHEMICAL TREATMENT OR GLYCOL FILL TO BRING SYSTEM TO ACCEPTABLE LEVELS AND SUBMIT REPORTS.
- PIPE HANGERS:
 - ADJUSTABLE WROUGHT IRON CLAVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS.
 - FOR COPPER PIPING (INCLUDING PIPING WITHIN WALLFIN ENCLOSURE) PROVIDE COPPER PLATED OR EPOXY TYPE HANGERS OR PROVIDE SEPARATION OF DISSIMILAR METALS WITH APPROVED DIELECTRIC MATERIALS. INSULATING TAPE IS NOT ACCEPTABLE.
 - HANGERS SHALL WRAP AROUND OUTSIDE OF PIPE INSULATION. PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION.
 - PIPE HANGER SPACING
 - SIZES UP TO 1-1/4"(32mm) = 8'(2.5m) SPACING
 - SIZES 1-1/2"(38mm) TO 2"(50mm) = 10'(3m) SPACING
 - SIZES 2-1/2"(63mm) AND OVER = 12'(3.5m) SPACING
 - PROVIDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW
- VALVES AND ACCESSORIES:
 - ALL VALVES SHALL BE LINE SIZED UNLESS OTHERWISE NOTED. (CBVs GENERALLY NOT LINE SIZE).
 - CIRCUIT BALANCING VALVES SHALL BE IMI TA STAS/STAF SERIES (NO ALTERNATES ACCEPTABLE) MOUNT WITH PORTS UPRIGHT OR AT LEAST 90° UP FROM BOTTOM. SUBMIT SHOP DRAWINGS COMPLETE WITH VALVE SIZING SCHEDULE.
 - GALL VALVES SHALL BE EQUAL TO KITZ 58 & 59.
 - AUTOMATIC AIR VENTS SHALL BE EQUAL TO:
 - WALLFINS, CONVECTORS, RADS: "MAID-O-MIST" #67 COMPLETE WITH BALL VALVE
 - PIPE MAINS & LINES, MECHANICAL ROOMS, EQUIPMENT, COILS, CEILING SPACES AND ALL OTHER SPACES EXCEPT NOTED ABOVE: "MAID-O-MIST" #71 COMPLETE WITH BALL VALVE
- WATER TREATMENT:
 - ALLOW FOR CHEMICAL TREATMENT TO BRING SYSTEM TO ACCEPTABLE LEVELS AND SUBMIT REPORTS.
 - OBTAIN THE SERVICES OF A MIK SERVICES FOR ALL WATER TREATMENT.
- DUCT INSULATION:
 - ACOUSTIC DUCT INSULATION
 - FIBERGLASS INSULATION, COATED TO PREVENT FIBRE EROSION AT AIR VELOCITIES UP TO 400 fpm.
 - ALL SUBSTRATE MATERIAL TO BE NON-DARKENED, CONTRASTING COLOUR FROM LINER LAYER.
 - THICKNESS: 1" (25mm)
 - THERMAL DUCT INSULATION
 - INSULATION SHALL BE PRECOVERED, PRE-FORMED RIGID FIBROUS GLASS INSULATION COMPLETE WITH FOIL OR KRAFT ALL-PURPOSE JACKET.
 - 0.75 PCF (12 kg/m³) DENSITY, 0.29 K-VALUE WITH 25/50 FLAME SPREAD/SMOKE DEVELOPMENT CLASSIFICATION IN ACCORDANCE WITH CANULC S102.
 - SUPPLY, RETURN AND EXHAUST DUCT APPLICATION THICKNESS: 1" (25mm) MINIMUM.
 - OUTDOOR AIR INTAKE DUCT APPLICATION THICKNESS: 2"(50mm) MINIMUM
 - RECOVERING JACKETS (INTERIOR): ULC LISTED "THERMO CANVAS", TREATED COTTON FABRIC.
- PIPE INSULATION:
 - PROVIDE 1-1/2"(38mm) PIPE INSULATION ON ALL HEATING PIPING SIZES UP TO AND INCLUDING 1-1/4"(32mm)
 - PROVIDE 2"(50mm) PIPE INSULATION ON ALL HEATING PIPING SIZES 1-1/2"(38mm) AND OVER
 - EXTERNAL PIPE INSULATION SHALL BE RIGID, SECTIONAL FIBERGLASS TYPE AND BE COMPLETE WITH FACTORY SUPPLIED ALL PURPOSE VAPOUR BARRIER. PRE-FORMED INSULATION SHALL BE USED AT PIPE FITTINGS, VALVES, ETC. PROVIDE NON-CRUSHING INSULATION AT ALL PIPE HANGERS AND PROVIDE SADDLES.
 - PROVIDE PVC JACKET ON ALL INSULATION IN EXPOSED AREAS.
- ACCESS DOORS/COVERS
 - FLUSH ACCESS DOOR - UNIVERSAL: ACUDOR #UF-5000 UNIVERSAL ACCESS DOORS, 14 GA (1.7mm) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN WASHROOMS SHALL BE STAINLESS STEEL. ALL OTHER PANELS SHALL BE BAKED ENAMEL PRIME COATED FOR FIELD PAINTING. MINIMUM SIZE OF PANELS SHALL BE 12"x18" (300mmx450mm) WHEREVER POSSIBLE 24"x24" (600mmx600mm) PANELS SHALL BE USED. RECESSED ACCESS DOOR - DRYWALL AREA: ACUDOR #RW-515 SERIES RECESSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME COAT, WITH CONCEALED PIVOTING ROD TYPE HINGE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8" (16mm) TO RECEIVE DRYWALL. FINISH OF DOOR TO BE GALVANIZED STEEL TYPING BEADING TO PROVIDE FLANGE OF DRYWALL JOINTS FOR FIELD PAINTING.

HVAC NOTES:

- CONCEAL ALL SERVICES IN CEILING SPACES AND FURRED CONSTRUCTION UNLESS INSTALLED IN UNFINISHED OR EXPOSED AREAS OR IF SPECIFICALLY NOTED TO BE EXPOSED.
- COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- REFER TO REFLECTED CEILING PLAN TO CONFIRM EXACT LOCATION OF GRILLES AND DIFFUSERS. LIGHTING TAKES PRECEDENCE.
- PROVIDE ACOUSTIC INSULATION IN ALL TRANSFER DUCTS AND AS INDICATED ON DRAWINGS. SEAL ALL EXPOSED ENDS OF INSULATION.
- TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
- BRANCH DUCTWORK TO DIFFUSERS TO BE SAME SIZE AS DIFFUSER NECK.
- PROVIDE BALANCE DAMPERS ON ALL BRANCH DUCTS CLOSE TO MAIN TAKE-OFF. REVIEW WITH BALANCING CONTRACTOR TO CONFIRM LOCATIONS OF ALL BALANCE DAMPERS PRIOR TO CONSTRUCTION.
- INCLUDE FOR THE SUPPLY AND INSTALLATION OF TWO(2) EXTRA BALANCE DAMPERS AFTER CONSTRUCTION AND BALANCING COMPLETION. (FENDING BALANCING RESULTS AND COMMENTS).
- FLEXIBLE DUCT SHALL ONLY BE USED IN SUPPLY AIR APPLICATIONS FOR CONNECTIONS TO DIFFUSERS IN DROPPED CEILING. FLEXIBLE DUCT SHALL BE MAXIMUM 6' (1.8m) IN LENGTH AND SHALL BE SECURELY FASTENED TO DUCTS AND DIFFUSERS. PROVIDE HANGERS AND FLEXIBLE DUCTWORK WITHOUT SHARP 90°S, SAGGING, OR CRUSHING OF DUCT. FLEXIBLE DUCT IS NOT ACCEPTABLE IN ANY OTHER APPLICATION.
- PROVIDE EXTERNAL INSULATION ON ALL SUPPLY AIR DUCTS. ALL OUTSIDE AIR DUCTS AND ON ALL EXHAUST DUCTS WITHIN 8' (2.4m) OF OUTSIDE WALL/ROOF INCLUDING RIGID AND FLEXIBLE DUCT.
- ALL INDOOR CONTROL WIRING SHALL BE RUN IN EMT CONDUIT OR F76 (EMT SHALL BE USED IN EXPOSED AREAS). LAST 3' SHALL BE BX WHEN USING CONDUIT. ALL OUTDOOR CONTROL WIRING SHALL BE RUN IN LIQUIDTIGHT J ALL CONCEALED INDOOR CONTROL WIRING SHALL BE RUN IN LVY. ALL EXPOSED INDOOR CONTROL WIRING (IN UNFINISHED AREAS ONLY) SHALL BE RUN IN EMT CONDUIT WITH FINAL CONNECTION IN BX. ALL OUTDOOR CONTROL WIRING SHALL BE RUN IN LIQUIDTIGHT.
- PROVIDE FIRE DAMPERS AT ALL FIRE SEPARATIONS. FIRE DAMPERS SHALL BE TYPE 'B' C/W LINKAGE OUT OF THE AIR STREAM. FIRE DAMPER RATING TO MATCH THE RATING OF THE SEPARATION CROSSED. INSTALLATION MUST CONFORM TO LATEST NFPA 90A SPECIFICATIONS. ONLY USE ULC APPROVED EQUIPMENT. PROVIDE DUCT ACCESS DOORS AND BREAK AWAY FLANGES FOR ALL FIRE DAMPERS IN CONFORMANCE WITH CODE AND INSTALLATION INSTRUCTIONS. ACCESS DOORS SHALL BE TWIST LOCK TYPE - SCREWED PANELS ARE NOT ACCEPTABLE.
- PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
- SUPPLY DRYWALL ACCESS DOORS FOR CONCEALED FIRE AND BALANCE DAMPERS AND ANY OTHER CONCEALED DEVICES (AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. DOORS TO BE GALVANIZED STEEL FOR FIELD PAINTING. DOORS SHALL BE RATED WHERE INSTALLED IN FIRE SEPARATIONS.
- DRAIN HEATING SYSTEMS AS REQUIRED FOR NEW WORK. FILL, FLUSH, TEST AND TREAT (CHEMICAL TREATMENT) AFTER WORK IS COMPLETE. PROVIDE ALL PORTS, VALVES AND GAUGES AS REQUIRED. SUBMIT CHEMICAL TREATMENT REPORT TO ENGINEER. FREEZING OF PIPING TO ALLOW ISOLATION OF WORK AREA IS ACCEPTABLE IN LIEU OF DRAINING.
- ALL CBVs SHALL BE MOUNTED WITH PORTS IN HORIZONTAL (90°) POSITION.
- PROVIDE EXTERNAL INSULATION ON ALL HEATING PIPING EXCEPT IN WALLFIN ENCLOSURES.
- PROVIDE FIRE STOPPING AROUND ALL NEW PIPING THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH CANULC S115.
- LABEL ALL NEW HEATING PIPING COMPLETE WITH FLOW ARROWS. LABELS SHALL BE MAX 3m(10') SPACING AND ON EITHER SIDE OF WALLS. LABELING MUST BE COMPLETE PRIOR TO NEW CEILING BEING INSTALLED OTHERWISE IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE CEILING TILES FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
- LABEL CEILING TILE WITH PERMANENT ADHESIVE LABELS OR LAMACOID NAMEPLATES FOR ACCESS TO MECHANICAL ITEMS.
- OBTAIN THE SERVICES OF A NEBB, CAABC OR NBCTA ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE HVAC SYSTEM. PROVIDE REPORT TO ENGINEER FOR REVIEW. REFER TO SPECIFICATIONS FOR APPROVED AGENTS.

BALANCING SPECIFICATIONS:

- OBTAIN THE SERVICES OF A 3rd PARTY ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE AIR AND WATER HVAC SYSTEM.
- PROVIDE PRELIMINARY REPORT TO ENGINEER FOR REVIEW AND COMMENTS.
- ALLOW FOR ONE FOLLOW-UP SITE VISIT FOR ADJUSTMENTS.
- RETURN TO SITE FOR ANY ADJUSTMENTS AND SUBMIT FINAL REPORT TO ENGINEER AND CONTRACTOR FOR INCLUSION INTO MAINTENANCE MANUAL.
- ACCEPTABLE AGENTS:
 - QUALITY AIR DISTRIBUTION INC
CONTACT: MIKE NOONAN
TEL: (289)892-7168
EMAIL: mlka@qualityairdistribution.com
 - DESIGN TEST & BALANCE
CONTACT: SURINDER SINGH
TEL: (905)886-6513
EMAIL: mail@designtest.ca
 - FLOWSET BALANCING
CONTACT: CHRIS FITHER
PHONE: (416)410-9793 OR (647)321-5114
EMAIL: chrifp@flowset.com
 - COMPLETE SYSTEMS BALANCING
CONTACT: TREVOR KELLY
PHONE: 705-760-0390
EMAIL: trework@csbalancing.com

GENERAL NOTES:

- WORK TO BE COMPLETED OUTSIDE REGULAR HOURS:
 - ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL OR OCCUPANT ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTERRUPTIONS, WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBRATIONS, WORK THAT GENERATES FUMES/SMELLS, ETC.
 - ANY WORK INSIDE OR OUTSIDE THAT CREATES RISK TO BUILDING OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS.
 - ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.
- OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
- OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY WORK BEING DONE.
- PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WITH ELECTRICIAN AND/OR SITE, EQUIPMENT PERFORMANCE, DIMENSIONS AND CLEARANCES.
- THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
- INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE DURING CONSTRUCTION. CONSTRUCTION APPROVAL. WHERE SYSTEMS ARE USED AND ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN A MANNER ACCEPTABLE TO THE CONSULTANT.
- MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
- REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
- ALL CUTTING AND CORING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR. TRENCHING, EXCAVATION AND BACKFILL FOR UNDERGROUND PLUMBING SHALL BE BY THIS CONTRACTOR. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
- COORDINATE ROOFING FOR DUCT AND PIPE ROOF PENETRATIONS WITH GENERAL CONTRACTOR. PROVIDE PITCH POCKETS FOR ALL SERVICES THROUGH ROOF UNLESS SERVICES CAN BE FED THROUGH BASE OF EQUIPMENT.
- ANY FEED TO NEW ROOFTOP EQUIPMENT SHALL BE INSTALLED WITH GOOSENECK STYLE PITCH POCKET EQUAL TO THALER METAL MF-2A OR DOGHOUSE. SIZE AS REQUIRED TO SUIT FEED.
- MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
- TAG ALL EQUIPMENT WITH LAMACOID NAMEPLATES. TAG ALL VALVES WITH LAMACOID NAMEPLATES OR BRASS TAGS ON CHAINS.
- LABEL ALL NEW PIPING WITH SERVICE AND FLOW ARROWS EVERY 10'(3m) AND ON EITHER SIDE OF WALLS.
- THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS BY THE ENGINEER PRIOR TO CEILING AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
- PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE. THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING JURISDICTION, SUBMIT REPORTS TO THE CONSULTANT.
- INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATION OF THE SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTENDEES.
- UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK INSPECTION REPORT INDICATING ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
- PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
- PROVIDE ONE (1) ELECTRONIC COPY OF MAINTENANCE MANUAL BY WEB TRANSFER AND ON USE. MANUAL SHALL INCLUDE:
 - TABLE OF CONTENTS
 - CONTRACTOR INFORMATION
 - WARRANTY LETTER
 - SHOP DRAWINGS
 - O&Ms
 - INSPECTION & TEST REPORTS
 AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS SHALL BE STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS). DRAWINGS SHALL BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.

HVAC LEGEND

	NEW
	EXISTING
	DEMOLITION
	SUPPLY DUCTS (UP / DOWN)
	EXHAUST DUCTS (UP / DOWN)
	ROUND DUCTS (UP / DOWN)
	FLEXIBLE DUCT
	ACOUSTIC LINED DUCT
	TURNING VANES
	BALANCE DAMPER
	FIRE DAMPER
	SUPPLY DIFFUSER (SQUARE / ROUND)
	RETURN/EXHAUST CEILING GRILLE
	HOT WATER HEATING SUPPLY (HS)
	HOT WATER HEATING RETURN (HR)
	ELBOW RISING
	ELBOW DROPPING
	BRANCH RISING FROM TEE
	BRANCH DROPPING FROM TEE
	BALL SHUT-OFF VALVE
	CHECK VALVE
	DANFOSS 2-WAY CONTROL VALVE
	CIRCUIT BALANCING VALVE (CBV)
	UNION
	CONCENTRIC REDUCER
	STRAINER
	AUTOMATIC AIR VENT C/W 1/4" BALL VALVE AND NIPPLE/COUPLING (MINI BALL VALVES NOT ACCEPTABLE)
	EQUIPMENT SYMBOLS - TYPE OF EQUIPMENT NUMBER DESIGNATION
	GRILLE SYMBOLS - TYPE - SIZE (mm) AIR FLOW (cfm)
	RADIATION SYMBOLS - TYPE - FIN LENGTH (mm) ENCLOSURE LENGTH (mm) CAPACITY (MBH)

MECHANICAL ABBREVIATIONS

EX	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
CTE	CONNECT TO EXISTING
CW	COMPLETE WITH
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR

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No.	Date	Description	By
1	2025-02-05	Issued for Permit & Tender	BRT
0	2025-01-22	Issued for Client Review	BRT

STAMPS

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CLIENT:

PROJECT NAME:

WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:

HVAC
LEGENDS, NOTES,
SCHEDULES AND CONTROLS

DISCIPLINE:

MECHANICAL

DRAWN BY:	MRC	SCALE:	NTS
DESIGNED BY:	BRT	DATE:	2025/01/22
APPROVED BY:	BRT	APPROVER:	
PROJECT No:	Z0020280	DRAWING No:	
SHEET No:	4 of 8		

M-001

GENERAL DEMOLITION HVAC NOTES:

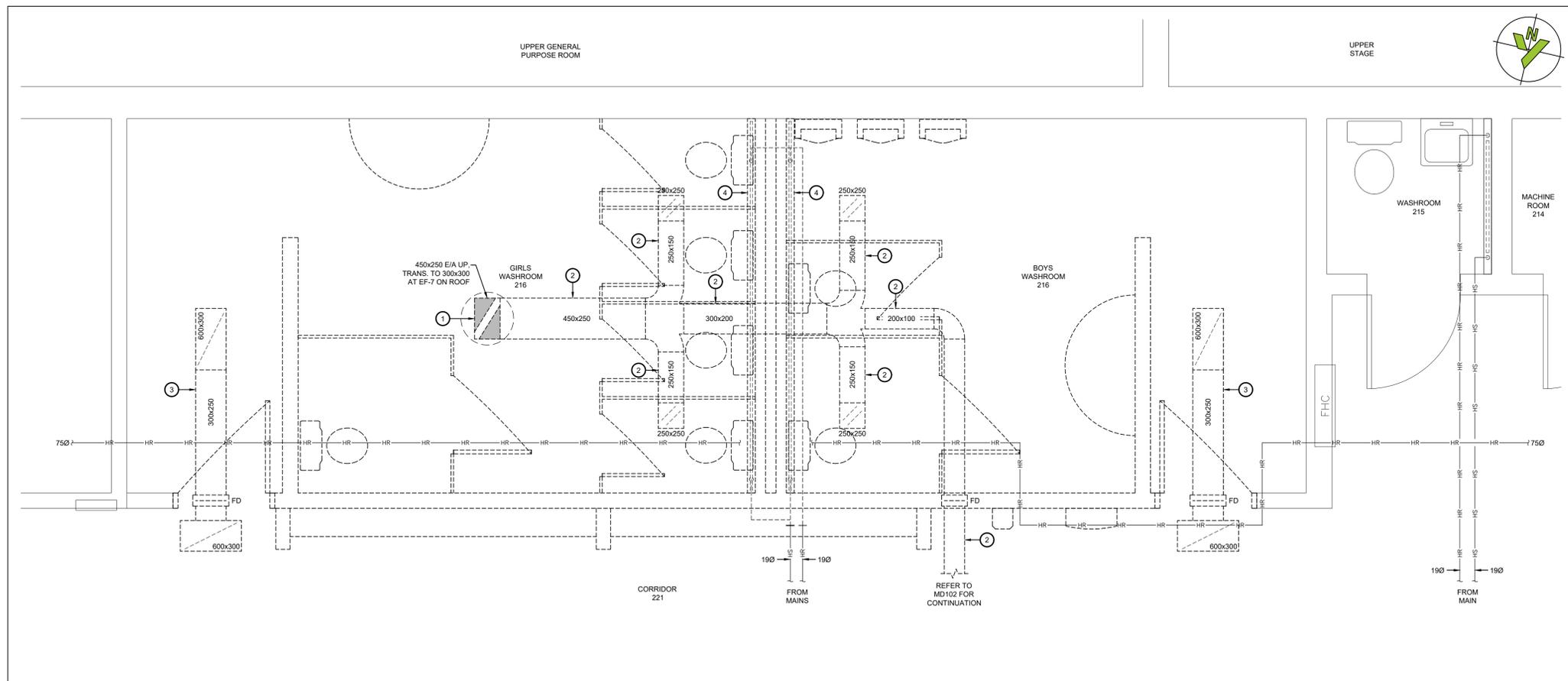
1. THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM CONSULTANT.
2. PRE-CONSTRUCTION PHOTOS: THE CONTRACTOR SHALL TAKE PHOTOS OF THE SITE, BUILDING, SERVICES AND FINISHES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH PHOTOS SHALL INCLUDE ALL AREAS THAT FORM A PART OF THE CONSTRUCTION, BOTH INTERIOR AND EXTERIOR, AND WILL PROVIDE RECORD OF THE GENERAL CONDITION OF THE SITE PRIOR TO CONSTRUCTION. PHOTOS SHALL BE SHARED WITH THE OWNER AND CONSULTANT PRIOR TO ANY CONSTRUCTION STARTING.
3. DISCONNECT AND REMOVE ALL REDUNDANT EQUIPMENT, DUCTWORK, PIPING AND OTHER REDUNDANT SERVICES THROUGHOUT AREA OF WORK.
4. REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND CAP.
5. ANY REDUNDANT RISERS CAN REMAIN WITHIN EXISTING WALLS (WHERE WALLS ARE SCHEDULED TO REMAIN) BUT SERVICES SHALL BE CUT AND CAPPED WITHIN WALL SO FACE OF WALL CAN BE PATCHED AND FINISHED SMOOTH.
6. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.

WORKING NOTES - 2ND FLOOR:

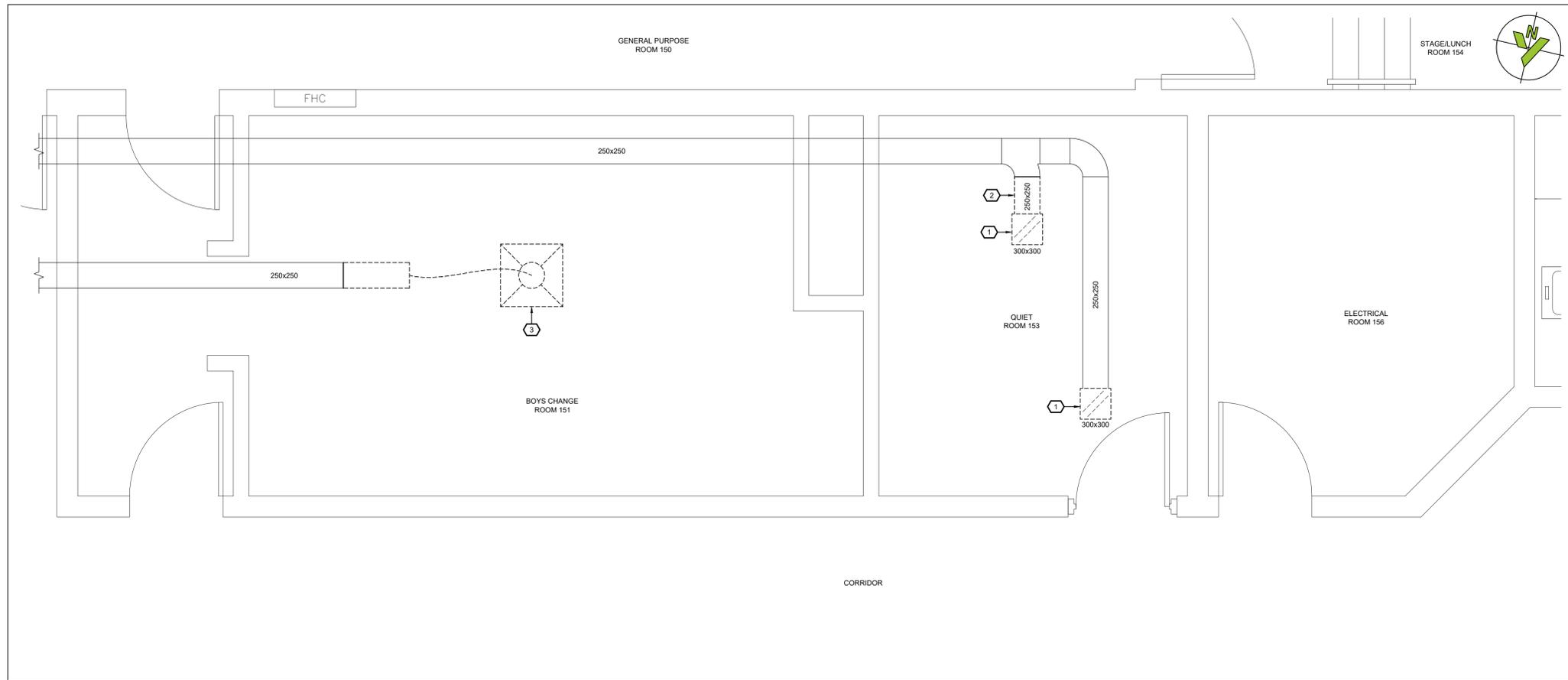
- 1 REMOVE EXISTING EXHAUST FAN AND CURB ON ROOF C/W ALL ASSOCIATED DAMPERS, ACCESSORIES AND SLEEVE THROUGH ROOF.
- 2 REMOVE EXISTING E/A DUCTWORK AND ALL DAMPERS AND ACCESSORIES.
- 3 REMOVE EXISTING TRANSFER DUCT C/W FIRE DAMPER, SLEEVE AND GRILLES.
- 4 REMOVE EXISTING WALL/FIN C/W ALL VALVES AND ACCESSORIES. CUT BACK HS & HR PIPING AS REQUIRED.

WORKING NOTES - GROUND FLOOR:

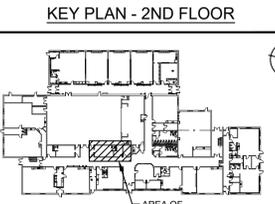
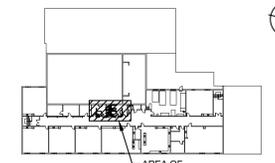
- 1 REMOVE EXISTING E/A GRILLE AND DAMPERS.
- 2 CUT BACK AND CAP EXISTING E/A DUCT BRANCH.
- 3 REMOVE EXISTING DIFFUSER AND FLEXIBLE DUCT. CUT BACK S/A DUCT AS REQUIRED TO SUIT NEW DUCTWORK.



1 2ND FLOOR - WASHROOMS 216 & 217 - DEMO HVAC LAYOUT
MD101 SCALE: 1:25



2 GROUND FLOOR - DEMO HVAC LAYOUT
MD101 SCALE: 1:25



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CLIENT:
DDSB
Ignite Learning

PROJECT NAME:
WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
GROUND FLOOR AND 2ND FLOOR
WASHROOMS 216 & 217
DEMO HVAC LAYOUT

DISCIPLINE:	
MECHANICAL	
DRAWN BY:	SCALE:
MRC:	AS NOTED
DESIGNER:	DATE:
BRT	2025/01/22
APPROVER:	APPROVER:
BRT	
PROJECT No.:	DRAWING No.:
Z0020280	
SHEET No.:	MD101
5 of 8	

GENERAL NEW HVAC NOTES:

- WORK TO BE COMPLETED OUTSIDE REGULAR HOURS.
 - ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL OR OCCUPANT ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTERRUPTIONS, WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBRATIONS, WORK THAT GENERATES FUMES/SMELLS, ETC.
 - ANY WORK INSIDE OR OUTSIDE THAT CREATES RISK TO BUILDING OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS.
 - ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.
- THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO CONSULTANT.
- PRE-CONSTRUCTION PHOTOS: THE CONTRACTOR SHALL TAKE PHOTOS OF THE SITE, BUILDING, SERVICES AND FINISHES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH PHOTOS SHALL INCLUDE ALL AREAS THAT FORM A PART OF THE CONSTRUCTION, BOTH INTERIOR AND EXTERIOR, AND WILL PROVIDE RECORD OF THE GENERAL CONDITION OF THE SITE PRIOR TO CONSTRUCTION. PHOTOS SHALL BE SHARED WITH THE OWNER AND CONSULTANT PRIOR TO ANY CONSTRUCTION STARTING.
- SCAN ROOF PRIOR TO ROOF CUTS.
- REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
- COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
- THERMALLY INSULATE EXHAUST AIR DUCTWORK 2.4m BACK FROM ROOF.
- FIRE STOP ALL NEW PIPING THROUGH RATED WALLS IN AREA OF WORK.
- SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES CONCEALED BEHIND DRYWALL AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.
- TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.

WORKING NOTES - 2ND FLOOR:

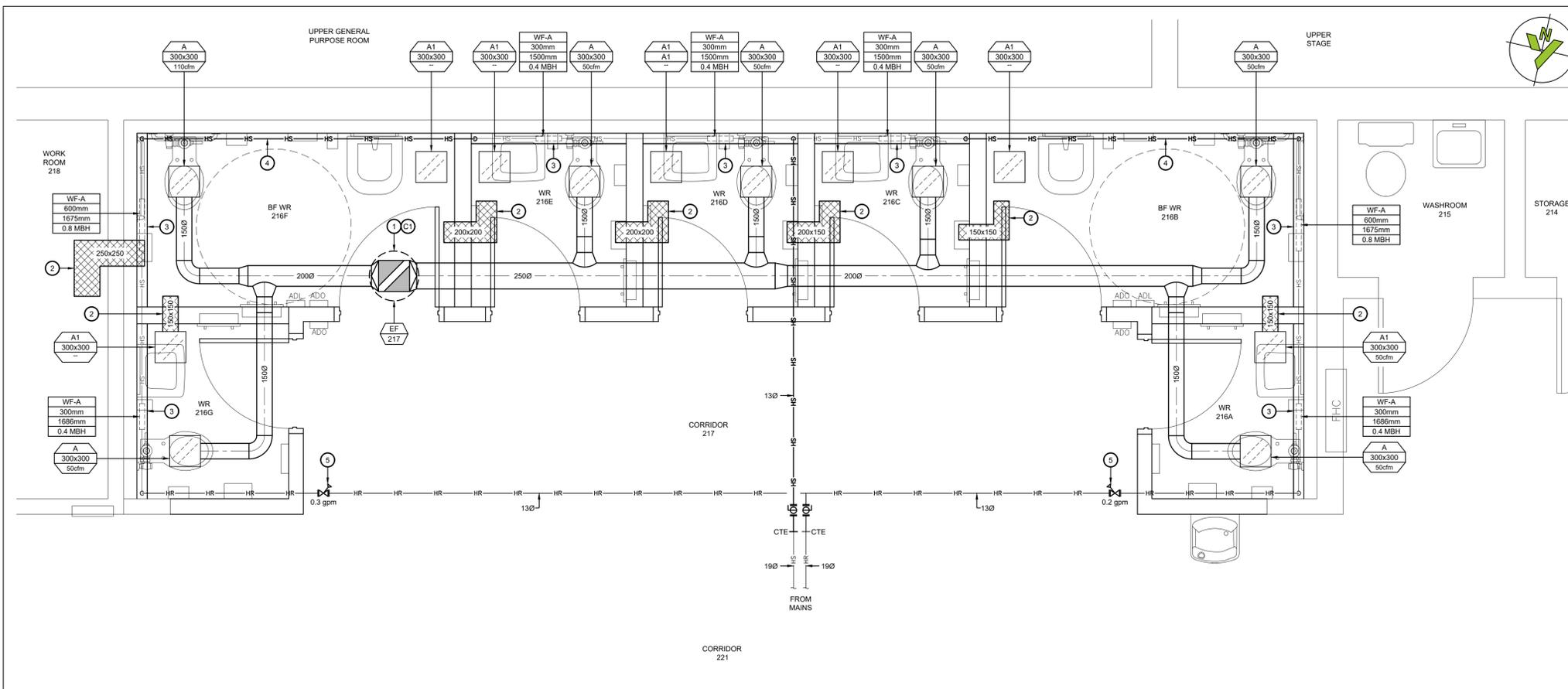
- 250x250 E/A UP THROUGH ROOF TO NEW EXHAUST FAN MOUNTED ON NEW CURB. THERMALLY INSULATE LAST 2.4m BACK FROM ROOF.
- NEW ACOUSTICALLY LINED TRANSFER ELBOW. REFER TO DETAIL. REFER TO PLAN DRAWING FOR SIZE.
- PROVIDE NEW WALLFIN. PROVIDE COMMON SET OF VALVES IN CORRIDOR CEILING WITH COMMON DANFOSS VALVE FOR CONTROL. REFER TO DETAIL.
- RUN HEATING PIPING UP INTO CEILING SPACE BETWEEN SECTIONS OF ENCLOSURE.
- PROVIDE CBV FOR EACH BRANCH OF HR PIPING AND BALANCE TO VALUE SHOWN.

CONTROLS WORKING NOTES - 2ND FLOOR:

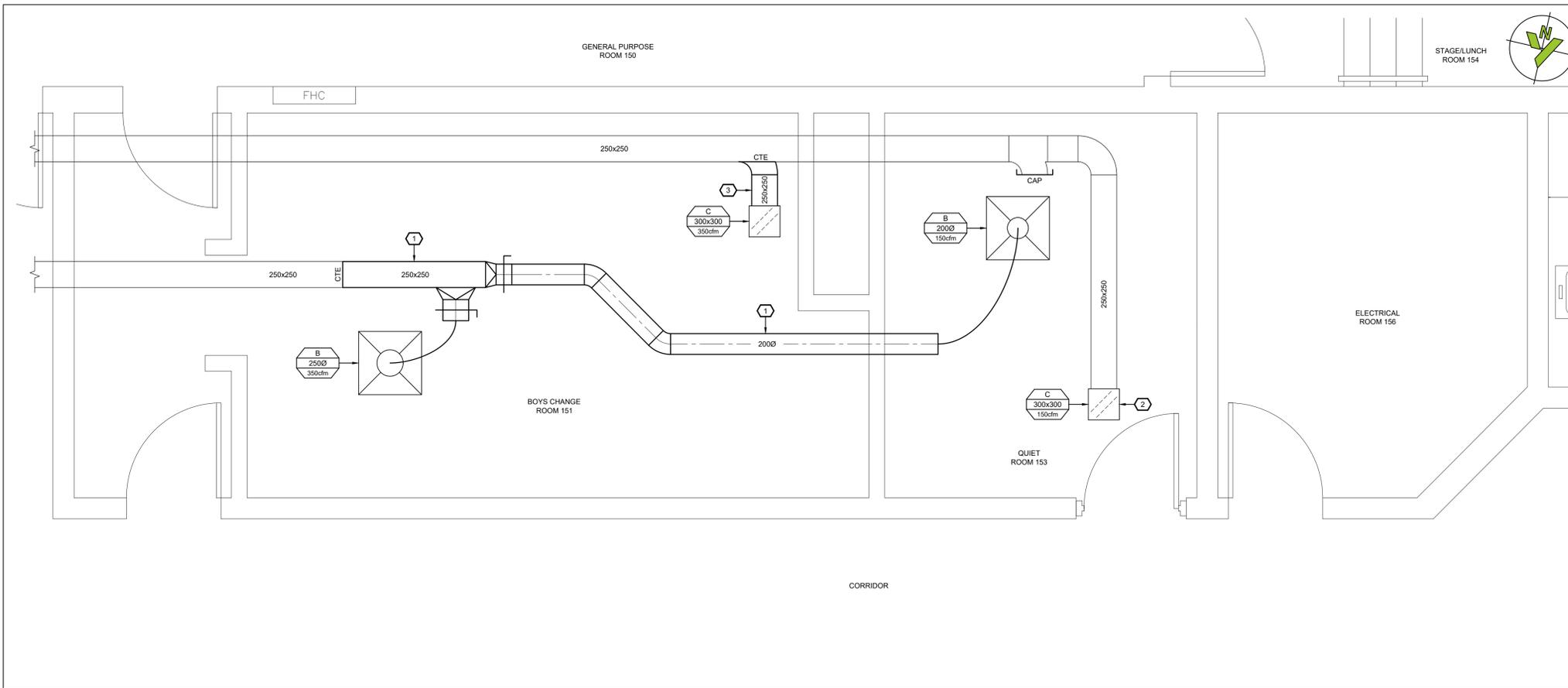
- REFER TO DRAWING M501 FOR CONTROLS SCOPE.
- PROVIDE CONTROLS AND CONTROL WIRING FOR NEW EXHAUST FAN.

WORKING NOTES - GROUND FLOOR:

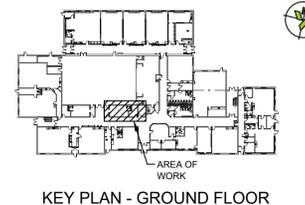
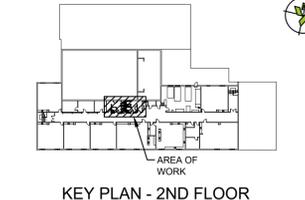
- PROVIDE NEW S/A DUCT AND DIFFUSER AND CONNECT TO EXISTING S/A MAIN IN CHANGEROOM CEILING.
- EXTEND E/A DUCT DOWN TO CEILING LEVEL AND CONNECT TO NEW GRILLE IN TBAR CEILING. PROVIDE NEW BALANCE DAMPER.
- PROVIDE NEW TAKEOFF, GRILLE AND BALANCE DAMPER AND CONNECT TO EXISTING E/A DUCT.



1 2ND FLOOR - NEW WASHROOMS 216A TOT 216G - NEW HVAC LAYOUT
SCALE: 1:25

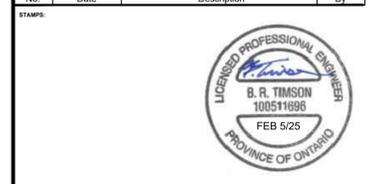


2 GROUND FLOOR - NEW HVAC LAYOUT
SCALE: 1:25



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No.	Date	Description	By
1	2025-02-05	Issued for Permit & Tender	BRT
0	2025-01-22	Issued for Client Review	BRT



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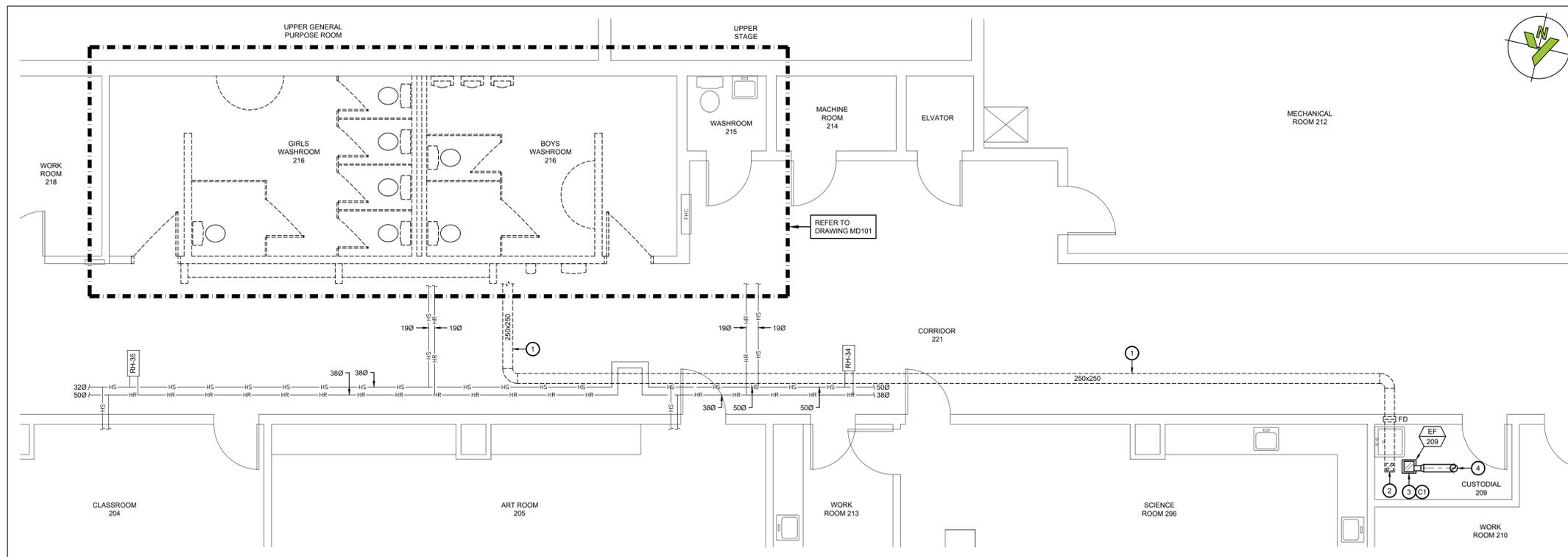
CLIENT:
DDSB
Ignite Learning

PROJECT NAME:
WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
**2ND FLOOR
NEW WASHROOMS 216A TO 216G
NEW HVAC LAYOUT**

DISCIPLINE:
MECHANICAL

DRAWN BY: MRC	SCALE: AS NOTED
DESIGNED BY: BRT	DATE: 2025/01/22
APPROVED BY: BRT	APPROVER:
PROJECT NO: Z0020280	DRAWING NO:
SHEET NO: 6 of 8	M-101

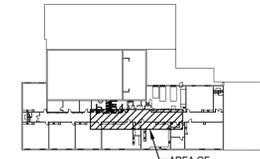


1 2ND FLOOR - CORRIDOR 221 - REVISED HVAC LAYOUT
M-101 SCALE: 1:50

- WORKING NOTES:**
- 1 REMOVE EXISTING E/A DUCT IN CORRIDOR CEILING SPACE C/W ALL DAMPERS AND ACCESSORIES INCLUDING FIRE DAMPERS AND SLEEVES AT WALL PENETRATIONS.
 - 2 REMOVE EXISTING EXHAUST GRILLE. COORDINATE CEILING PATCHING WITH THE GENERAL CONTRACTOR.
 - 3 PROVIDE NEW CEILING SUSPENDED EXHAUST FAN.
 - 4 RUN NEW 150Ø E/A DUCT UP THROUGH ROOF TO GOOSENECK. REFER TO DETAIL. THERMALLY INSULATE E/A DUCTWORK 2.4m BACK FROM ROOF.

- CONTROLS WORKING NOTES - 2ND FLOOR:**
- REFER TO DRAWING M501 FOR CONTROLS SCOPE.
- (C) PROVIDE CONTROLS AND CONTROL WIRING FOR NEW EXHAUST FAN.

- GENERAL DEMOLITION HVAC NOTES:**
1. THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CONSULTANT.
 2. PRE-CONSTRUCTION PHOTOS: THE CONTRACTOR SHALL TAKE PHOTOS OF THE SITE, BUILDING, SERVICES AND FINISHES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH PHOTOS SHALL INCLUDE ALL AREAS THAT FORM A PART OF THE CONSTRUCTION, BOTH INTERIOR AND EXTERIOR, AND WILL PROVIDE RECORD OF THE GENERAL CONDITION OF THE SITE PRIOR TO CONSTRUCTION. PHOTOS SHALL BE SHARED WITH THE OWNER AND CONSULTANT PRIOR TO ANY CONSTRUCTION STARTING.
 3. DISCONNECT AND REMOVE ALL REDUNDANT EQUIPMENT, DUCTWORK AND OTHER REDUNDANT SERVICES THROUGHOUT AREA OF WORK.
 4. REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND CAP.
 5. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.



KEY PLAN - 2ND FLOOR

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STAMPS:

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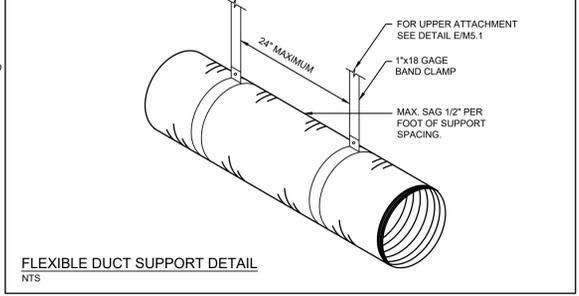
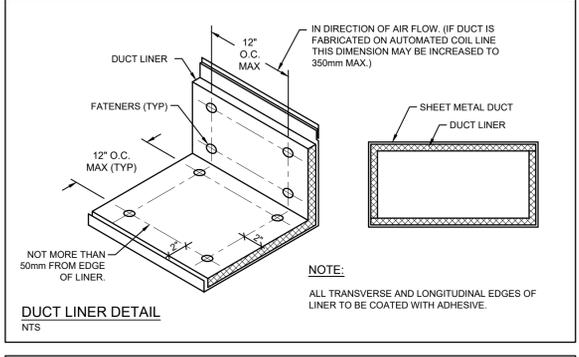
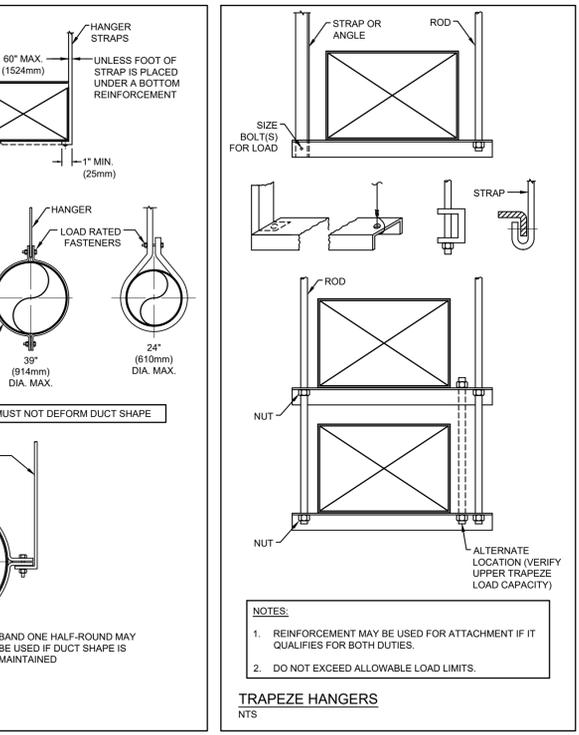
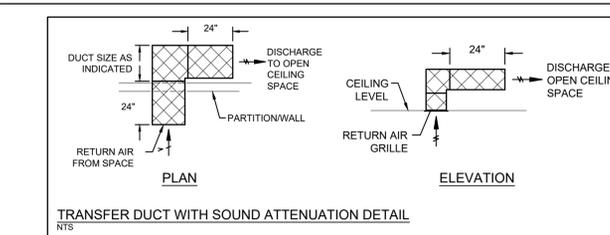
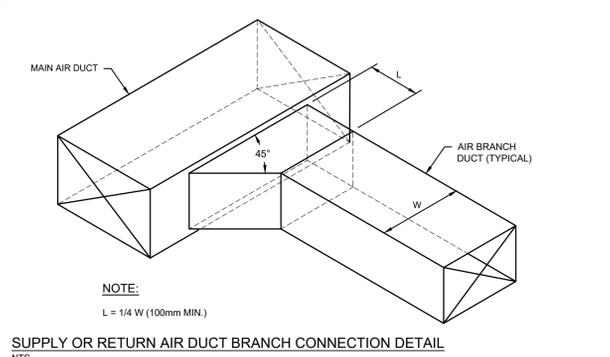
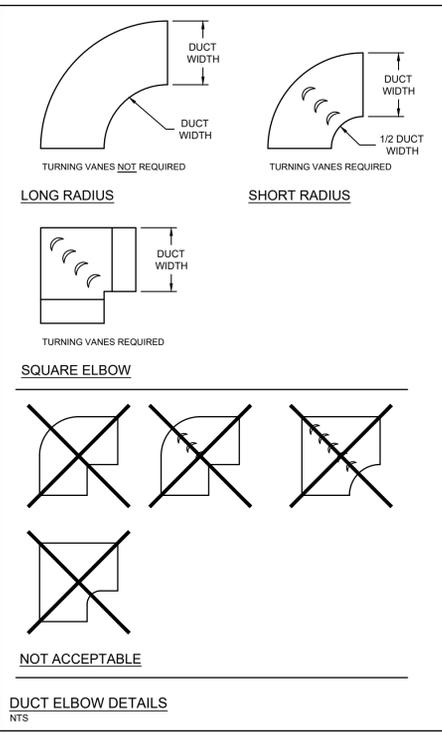
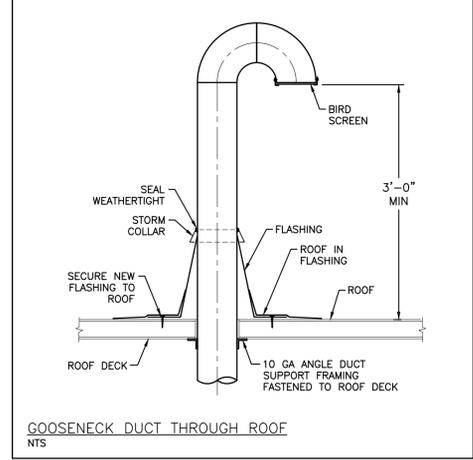
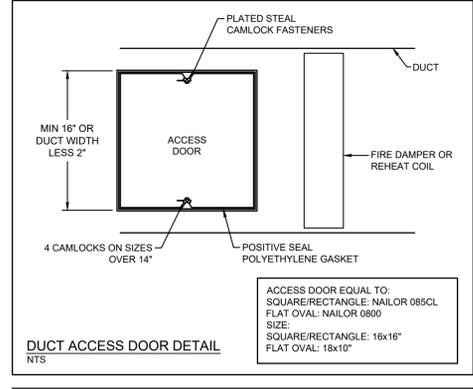
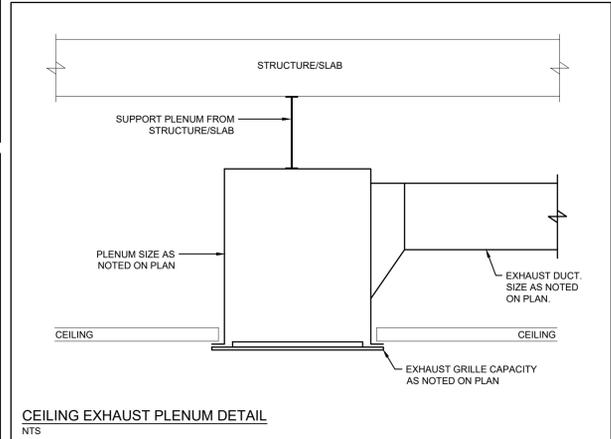
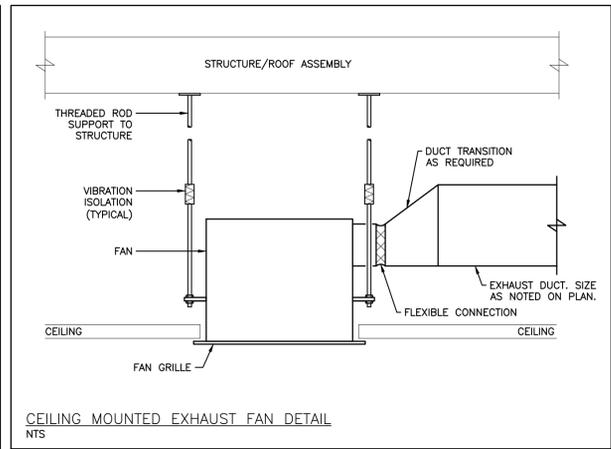
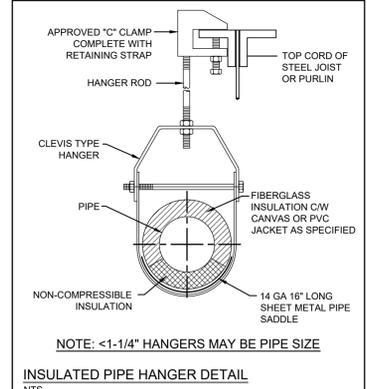
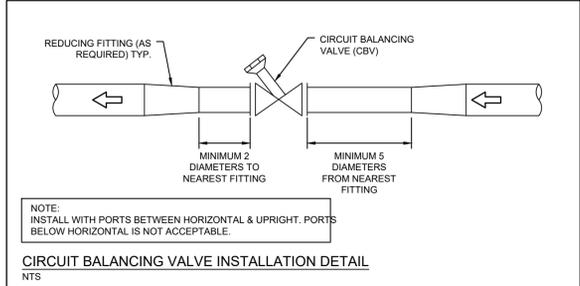
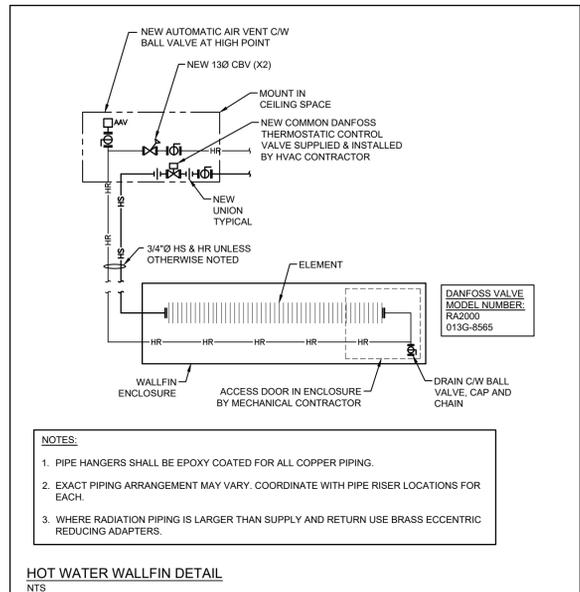
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CLIENT:
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 Ignite Learning

PROJECT NAME:
**WASHROOM RENOVATION AT
 STEPHEN G. SAYWELL PS**
 855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
**2ND FLOOR
 CORRIDOR 221
 REVISED HVAC LAYOUT**

DISCIPLINE: MECHANICAL	
DRAWN BY: MRC	SCALE: AS NOTED
DESIGNED BY: BRT	DATE: 2025/01/22
APPROVED BY: BRT	APPROVER:
PROJECT No: Z0020280	DRAWING No:
SHEET No: 7 of 8	M-102



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Ignite Learning

PROJECT NAME:
NTS

WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
NTS

DETAILS

DISCIPLINE:
MECHANICAL

DRAWN: MRC	SCALE: NTS
DESIGNER: BRT	DATE: 2025/01/22
APPROVER: BRT	APPROVER:
PROJECT NO: Z0020280	DRAWING NO:
SHEET NO: 8 of 8	M-501

EMT vs. LIQUIDTIGHT vs. FLEXIBLE CABLE

EMT (ELECTRICAL METALLIC TUBING) MUST BE USED IN THE FOLLOWING INDOOR APPLICATIONS:

1. ALL EXPOSED AREAS (USE WIREMOLD ON EXPOSED WALLS IN FINISHED AREAS WHERE EXPOSED WIRING HAS BEEN APPROVED).
2. T-BAR CEILING SPACES.
3. VERTICAL DROPS TO DEVICES IN NEW WALLS (I.E. SWITCHES RECEPTACLES, DATAVOICE.)

LIQUIDTIGHT MUST BE USED IN THE FOLLOWING INDOOR AND OUTDOOR APPLICATIONS:

1. LAST 5' (1.5m) FOR FINAL CONNECTION TO INDOOR AND OUTDOOR MECHANICAL EQUIPMENT. LIQUID TIGHT CONDUIT IN CEILING SPACE MUST BE PLENUM RATED.
2. ALL OUTDOOR WIRING.

FLEXIBLE CABLE IS ONLY ACCEPTABLE IN THE FOLLOWING INDOOR APPLICATIONS:

1. LAST 5' (1.5m) FOR FINAL CONNECTION TO LIGHTING AND SMALL EQUIPMENT/COMPONENTS IN CEILING SPACES. DAISY CHAIN OF LUMINAIRES IS NOT ALLOWED.
2. LAST 5'(1.5m) FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT LOCATED IN CEILING SPACE OR ON ROOF.
3. FISHED DOWN IN EXISTING WALL(S). FLEXIBLE CABLE IN NOT PERMITTED IN NEW WALL(S).

P.A. SYSTEMS

1. ELECTRICAL CONTRACTOR RESPONSIBLE FOR OBTAINING THE SERVICES OF A QUALIFIED PUBLIC ADDRESS SYSTEM CONTRACTOR TO CARRY OUT ALL WORK ASSOCIATED WITH THE P.A. SYSTEM INCLUDING BUT NOT LIMITED TO CONDUIT, WIRING, TESTING AND VERIFICATION.
2. ELECTRICAL CONTRACTOR RESPONSIBLE FOR PROVIDING ALL INFRASTRUCTURE FOR COMMUNICATION CABLING INCLUDING BUT NOT LIMITED TO BACK BOXES, CONDUIT UP WALL WITH FULL STRING AND INSULATING BUSHINGS, AND CONDUIT INFRASTRUCTURE IN CEILING SPACE INCLUDING JUNCTION BOXES, CONDUIT STUBS AS REQUIRED.
3. ALL P.A. CABLING SHALL BE RUN WITHIN EXISTING COMMUNICATIONS CONDUIT/RACEWAYS WHERE POSSIBLE. WHERE NOT POSSIBLE CABLING SHALL BE RUN USING J-HOOKS, SPACING AS PER MANUFACTURERS RECOMMENDATIONS.
4. EXISTING SYSTEM IS DUKANE. ANY NEW DEVICES TO MATCH EXISTING SYSTEM. PROVIDE SHOP DRAWINGS FOR REVIEW.
5. SPEAKERS SHALL BE MCBRIDE WHITE SQUARE GRILL WITH 25 VOLT TRANSFORMERS. SPEAKERS TO BE TAPPED: 2-4 WATTS IN GYM SHOPS AND BOILER ROOMS, 0.25 WATTS IN OFFICES AND TO 1 WATT IN ALL OTHER APPLICATIONS. SPEAKER WITHOUT GRILL IS 8L5822-19
6. ALL WIRING TO BE CAT6 FT4 RATED WITH WHITE OUTER SHEATH AND INSTALLED IN CONDUIT. WHERE IT IS NOT POSSIBLE TO INSTALL IN CONDUIT, PROVIDE J-HOOKS AND RUN FTE RATED CABLE.
7. ALL P.A. WIRING TO RUN BACK TO MAIN CONTROL PANEL AS NOTED. CONTRACTOR TO USE PROPER PUNCH DOWN TOOLS ON BIX PANEL FOR ALL WIRING.
8. PROVIDE AS-BUILT MARKUPS OF ANY NEW DEVICES AND ANY NEW JUNCTION BOXES PROVIDED TO SUIT.
9. CONTRACTOR TO ALLOW FOR MEETING ON SITE WITH KPRDSB REPRESENTATIVE TO REVIEW ALL INSTALLATION REQUIREMENTS AT THE BEGINNING OF THE PROJECT.
10. P.A. CABLING SHALL BE LABELLED WITH ROOM NUMBER ON BOTH ENDS OF CABLE.
11. TESTING:
 1. CONTRACTOR MUST PROVIDE INSPECTION, TESTING, REQUIRED ADJUSTMENTS, COMMISSIONING VERIFICATION AND CERTIFICATION OF THE SYSTEM. CONFIRM FINAL ROOM NUMBERS WITH KPRDSB. SUBMIT REPORT TO CONSULTANT AND INCLUDE IN MANUAL. THIS MUST BE COMPLETED PRIOR TO OCCUPANCY GRANTED.
 2. ALL LINES SHALL BE TESTED FOR CONTINUITY, GROUND AND SHORTS. IMPEDENCE TEST SHALL BE DONE ON EVERY SPEAKER AND INCLUDED IN REPORT.
 3. CONTRACTOR SHALL TEST SYSTEM TO ENSURE PROPER OPERATION AND MAKE ANY CORRECTIONS TO THE SYSTEM AT NO COST TO THE OWNER.

FIRE ALARM SCOPE OF WORK:

1. EXISTING FIRE ALARM CONTROL PANEL IS SIMPLEX 4100U.
2. FIRE ALARM MANUFACTURER TO ATTEND SITE PRIOR TO PRICING TO REVIEW EXISTING SYSTEM FOR CONFORMANCE WITH NEW PROPOSED DEVICES. FIRE ALARM MANUFACTURER TO INCLUDE FOR ALL LABOUR AND COMPONENTS REQUIRED TO CONNECT EXISTING DEVICES TO EXISTING FIRE ALARM CONTROL PANEL IN CONFORMANCE WITH ALL APPLICABLE CODES. ALLOW FOR WIRING BACK TO FIRE ALARM CONTROL PANEL TO SUPPORT NEW ZONE IF REQUIRED.
3. ADD ADDITIONAL DEVICES AS INDICATED. FIRE ALARM MANUFACTURER TO CONFIRM CIRCUIT LOADING PRIOR TO PRICING IF CONNECTING NEW DEVICES TO EXISTING CIRCUITS.
4. ALL DEVICE AND SIGNAL CIRCUITS TO BE WIRED TO MATCH EXISTING.
5. TIE NEW AHU INTO FIRE ALARM PANEL FOR FAN SHUT DOWN. COORDINATE WITH MECHANICAL CONTRACTOR FOR FIRE ALARM TIE-IN POINT (VFD OR UNIT) TO ENSURE UNIT SHUT DOWNS.
6. NEW END OF LINE RESISTORS TO BE MOUNTED BY FIRE ALARM CONTROL PANEL.
7. LABELING:
 1. PAINT ALL FIRE ALARM JUNCTION BOXES RED. IDENTIFY EACH JUNCTION BOX AS EITHER SIGNAL OR INITIATING CIRCUIT.
 2. LABEL ALL POWER JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER.
8. TEST AND VERIFY THE FIRE ALARM SYSTEM IN CONFORMANCE WITH CANULC-557M STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS TO ENSURE SATISFACTORY OPERATION.
9. PERFORM AUDIBILITY TESTS AS PER ONTARIO FIRE CODE (MINIMUM 65DBA MAXIMUM 100DBA THROUGHOUT) AND PROVIDE REPORT TO THE CONSULTANT. ALL SPACES WITHIN THE PROJECT AREA MUST BE TESTED. DOORS SHALL BE CLOSED DURING TESTING. CONTRACTOR AND VERIFIER TO ALLOW FOR SYSTEM MODIFICATIONS AND REVERIFICATIONS AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS.
10. PROVIDE VERIFICATION REPORT AND AUDIBILITY TESTS TO THE CONSULTANT FOR REVIEW. SUBMIT FINAL COPY OF REPORT TO THE BUILDING DEPARTMENT/FIRE PREVENTION.
11. ARRANGE FOR A SITE INSPECTION BY THE BUILDING DEPARTMENT/FIRE PREVENTION, CONSULTANT AND ESA AT COMPLETION OF THE PROJECT FOR FINAL ACCEPTANCE. PERFORM ADDITIONAL AUDIBILITY TESTS AS REQUESTED.

FIRE ALARM SPECIFICATIONS:

1. THE CONTRACTOR SHALL RELOCATE OR FURNISH NEW LABOUR, SERVICES AND MATERIALS NECESSARY TO PROVIDE A COMPLETE, FUNCTIONAL LIFE SAFETY FIRE SYSTEM. THE SYSTEM SHALL COMPLY IN ALL RESPECTS WITH ALL PERTINENT CODES, RULES, REGULATIONS AND LAWS OF THE LOCAL JURISDICTION. THE SYSTEM SHALL COMPLY IN ALL RESPECTS WITH THE REQUIREMENTS OF THE SPECIFICATIONS, MANUFACTURER'S RECOMMENDATIONS AND UNDERWRITERS LABORATORIES OF CANADA (ULC) LISTINGS. ALL COMPONENTS SHALL BE ULC LISTED.
2. THE EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CURRENT PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
 1. LOCAL AND PROVINCIAL BUILDING CODES
 2. LOCAL AND PROVINCIAL FIRE CODES
 3. LOCAL, PROVINCIAL, AND CANADIAN ELECTRICAL CODES
 4. NFPA 72 - NATIONAL FIRE ALARM CODE
 5. NFPA 101 - LIFE SAFETY CODE
 6. CANULC-557M AND OTHER APPLICABLE ULC STANDARDS
 7. AUTHORITY HAVING JURISDICTION
3. ALL SIGNAL DEVICES SHALL HAVE FIELD ADJUSTABLE DB SETTINGS VIA DIP SWITCHES OR PROGRAMMING FOR LOW, MEDIUM AND HIGH. PERMANENT MODIFICATION TO DEVICE TO CHANGE AUDIBLE LEVEL IS NOT ACCEPTABLE.
4. FIRE DETECTOR MOUNTING:
 1. FIRE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 1000mm HORIZONTALLY FROM TIP OF A CEILING SUSPENDED (PADDL) FAN OR CEILING MOUNTED UNIT HEATER MEASURED TO THE EDGE OF THE DETECTOR.
 2. FIRE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 450mm FROM ANY SUPPLY OUTLET OR EXHAUST OUTLET AS MEASURED TO THE EDGE OF THE DETECTOR.
5. DEVICE MOUNTING HEIGHT:
 1. WALL MOUNTED AUDIBLE SIGNAL TO BE MOUNTED MINIMUM 4" (100mm) BELOW CEILING AND NO LESS THAN 90"(2300mm) A.F.F. TO THE TOP OF THE DEVICE
 2. STROBE(S) TO BE MOUNTED SO THAT ENTIRE LENS IS 76"-94" (2000-2400mm) A.F.F.
 3. COMBINATION HORN/STROBE(S) SHALL CONFORM TO BOTH 5.2 AND 5.3
 4. END OF LINE RESISTORS TO BE MOUNTED LESS THAN 70" (1800mm) A.F.F.
6. CONDUIT AND WIRE:
 1. WIRING SHALL BE IN ACCORDANCE WITH LOCAL, PROVINCIAL AND NATIONAL CODES, AND AS RECOMMENDED BY THE MANUFACTURER OF THE FIRE ALARM SYSTEM.
 2. NUMBER AND SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER, BUT NOT LESS THAN 18 AWG (1.02 MM) FOR INITIATING DEVICE CIRCUITS AND SIGNALING LINE CIRCUITS, AND 14 AWG (1.63 MM) FOR NOTIFICATION APPLIANCE CIRCUITS (UNLESS OTHERWISE DIRECTED BY MANUFACTURERS).
 3. ALL WIRE AND CABLE SHALL BE LISTED AND/OR APPROVED BY A RECOGNIZED TESTING AGENCY FOR USE WITH A PROTECTIVE SIGNALING SYSTEM.
 4. ALL FIELD WIRING SHALL BE ELECTRICALLY SUPERVISED FOR OPEN CIRCUIT AND GROUND FAULT.
 5. ALL WIRE SHALL BE INSTALLED IN CONDUIT. PROVIDE WIREMOLD FOR ALL WIRING IN EXPOSED AREAS. ALL SURFACE MOUNTED CONDUIT MUST BE APPROVED BY OWNER OR CONSULTANT PRIOR TO INSTALLATION.
 6. WIRE AND CABLE NOT INSTALLED IN CONDUIT SHALL HAVE A FIRE RESISTANCE RATING SUITABLE FOR THE INSTALLATION AS INDICATED IN NFPA 70 (E.G. FPLR) AND AS PER OBC.
 7. ALL JUNCTION BOXES SHALL BE PAINTED RED AND IDENTIFIED AS SIGNAL OR INITIATING. ALL LBS SHALL BE PAINTED RED. ANY CONDUIT LENGTH EXCEEDING 10'(3m) SHALL HAVE COUPLING PAINTED RED FOR IDENTIFICATION.
7. SURFACE DEVICES AND EXPOSED CONDUIT:
 1. ALL SURFACE MOUNTED CONDUIT MUST BE APPROVED BY OWNER OR CONSULTANT PRIOR TO INSTALLATION.
 2. PROVIDE WIREMOLD (PANOUT) FOR ALL WIRING IN EXPOSED AREAS.
 3. ANY SURFACE BOXES SHALL BE 'FS' (NO KNOCKOUTS) AND BE PRE-APPROVED BY OWNER OR CONSULTANT.
8. FIRE STOP ALL EXISTING AND NEW CONDUIT THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH THE OBC.

GENERAL NOTES:

1. WORK TO BE COMPLETED OUTSIDE REGULAR HOURS:
 1. ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTERRUPTIONS, WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBRATIONS, WORK THAT GENERATES FUMES/SMELLS, ETC.
 2. ANY WORK INSIDE OR OUTSIDE THAT CREATES RISK TO BUILDING OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS.
2. THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
3. OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
4. OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY WORK BEING DONE.
5. THE ELECTRICAL CONTRACTOR AND SUB-TRADES SHALL ATTEND ALL SITE MEETINGS UNLESS OTHERWISE APPROVED.
6. PROVIDE ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE, BUT NOT LIMITED TO, VERIFYING VOLTAGE, RATING, DIMENSIONS AND CLEARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO CONSULTANT.
7. INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
8. MAINTAIN RECORD DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
9. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
10. REMOVE ALL REDUNDANT EQUIPMENT AND MATERIALS FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
11. ALL CUTTING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR.
12. ALL CONDUIT SHALL BE CONCEALED AND ALL DEVICES RECESSED. SURFACE MOUNTED CONDUIT IS NOT PERMITTED.
13. MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
14. PROVIDE ACCESS DOORS WHERE REQUIRED TO MAINTAIN ACCESS TO DEVICES, EQUIPMENT, JUNCTION BOXES ETC. COORDINATE AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. CONTRACTOR TO INSTALL WHERE NOT COORDINATED PROPERLY WITH GENERAL CONTRACTOR.
15. TAG ALL EQUIPMENT (INCLUDING MECHANICAL EQUIPMENT), EQUIPMENT DISCONNECTS/STARTERS AND PANELS WITH LAMACOD NAMEPLATES. PANEL NAMEPLATE SHALL STATE PANEL DESIGNATION, VOLTAGE, AMPERAGE AND SOURCE OF FEEDER. EQUIPMENT SHALL STATE PANEL AND CIRCUIT NUMBER. PROVIDE TYPE PANEL SCHEDULES IN ALL PANELS. CONFIRM WITH CONSULTANT IF UNCLEAR.
16. LABEL ALL RECEPTACLES AND JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER. USE BLACK MARKER ON CONCEALED JUNCTION BOXES AND CLEAR ADHESIVE LABELS WITH BLACK WRITING ON RECEPTACLES. PAINT ALL JUNCTION BOXES RED FOR FIRE ALARM.
17. THE CONTRACTOR SHALL ARRANGE FOR FIELD REVIEWS BY THE CONSULTANT PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR REVIEW AT THE DIRECTION OF THE CONSULTANT.
18. PERFORM TESTING OF ALL SYSTEMS AS REQUIRED BY CODE AND THE CONSULTANT.
19. ASSIST WITH START-UP AND COMMISSIONING OF ALL SYSTEMS AS REQUIRED.
20. INSTRUCT AND TRAIN THE OWNER ON PROPER OPERATION OF THE SYSTEM.
21. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATED ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
22. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
23. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED AND UNTIL ALL CONSULTANT FIELD REVIEW REPORTS HAVE BEEN SIGNED AND RETURNED TO CONSULTANT ALONG WITH PICTURES AS REQUESTED BY CONSULTANT.
24. PROVIDE ONE(1) ELECTRONIC COPY OF USB. CLOSE-OUT DOCUMENTATION INCLUDING CONTRACTOR INFORMATION, WARRANTY LETTER, ESA CERTIFICATE, FIRE ALARM VERIFICATION REPORT, EMERGENCY LIGHTING TEST REPORT, SHOP DRAWINGS, O&M, ANY OTHER REQUIRED REPORTS AND AS-BUILT DRAWINGS INCLUDING ALL PANEL SCHEDULES. AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE ELECTRICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR.
25. PROVIDE PRE-FABRICATED FIRE PROTECTION COVER FOR ALL CEILING LIGHT FIXTURES.

ELECTRICAL NOTES:

1. ALL WORK SHALL CONFORM TO ESA REQUIREMENTS.
2. PROVIDE CHAINS FOR ALL LIGHT FIXTURES. CHAINS SHALL BE PROVIDED AT ALL FOUR CORNERS.
3. BOND ALL METALLIC WATER, DRAIN AND GAS PIPING AS PER ESA REQUIREMENTS.
4. PROVIDE JUNCTION BOXES C/W COVER PLATES AS REQUIRED.
5. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
6. REFER TO "EMT (ELECTRICAL METALLIC TUBING) vs. LIQUIDTIGHT vs. FLEXIBLE CABLE" FOR ACCEPTABLE USE OF EACH.
7. EMT AND BOXES SHALL BE SIZED ACCORDING TO CODE REQUIREMENT BASED ON THE NUMBER OF CONDUCTORS.
8. FOR EMT AND/OR CONDUITS BENDS GREATER THAN OR EQUAL TO 270°, A PULL BOX MUST BE PROVIDED.
9. ALL EMT (ELECTRICAL METALLIC TUBING) SHALL BE FIRMLY FASTENED IN PLACE SO AS TO SUPPORT THE WEIGHT OF CONDUIT AND TO PREVENT ANY STRAIN OR STRESS AT TERMINATIONS ACCORDING TO ELECTRICAL CODE 12-1010.
10. CONTRACTORS SHALL ATTEMPT TO FISH NEW FEEDS DOWN EXISTING WALLS WHERE THIS IS NOT POSSIBLE (ONLY). SURFACE INSTALLATION IS ACCEPTABLE ON EXISTING BLOCK WALLS IN FINISHED AREAS UPON OWNERS APPROVAL AS FOLLOWS:
 1. BOXES SHALL BE SHALLOW WIRE MOLD BOX WITH NO KNOCKOUTS.
 2. CONDUIT SHALL BE WIRE MOLD. COLOUR TO BE WHITE.
11. CONCEAL ALL EMT (ELECTRICAL METALLIC TUBING) AND COMPONENTS IN CEILING SPACE OR WALLS. RUN TIGHT TO FLOOR DECK OR FLOOR ABOVE WHERE CEILING IS EXPOSED. RUN TIGHT TO WALL OR COLUMN WHERE WALLS ARE EXPOSED.
12. WHERE EMT RUNS HORIZONTALLY ACROSS WALL STUDS, NOTCHES SHOULD BE CUT AND PROTECTED BY STEEL PLATES.
13. MOUNTING HEIGHTS:
 1. MOUNT NEW CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO, P.A. CALL SWITCHES, OPERATORS, LIGHT SWITCHES OR SWITCH PLATE OCCUPANCY SENSORS NO LESS THAN 90" (900mm) A.F.F. TO BOTTOM OF BOX AND 43"(1100mm) MAXIMUM A.F.F. TO TOP OF BOX, UNLESS OTHERWISE NOTED.
 2. MOUNT NEW RECEPTACLES 18" (400mm) A.F.F. UNLESS OTHERWISE NOTED.
14. RECEPTACLES LOCATED WITHIN 5'(1.5m) OF A DAMP OR WET LOCATION SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
15. CONTRACTOR TO ALLOW FOR THE RELOCATION OF ANY RECEPTACLE OR DEVICE/EQUIPMENT CONNECTION WITHIN 10' OF LOCATION SHOWN AT NO EXTRA COST.
16. DEVICE COVER PLATES SHALL BE STANDARD NYLON IN FINISHED AREAS AND STAINLESS STEEL IN UNFINISHED AREAS INCLUDING MECHANICAL ROOM. COLOUR OF NYLON COVER PLATES TO BE CONFIRMED WITH ARCHITECT. DEVICE COVER PLATES SHALL BE STAINLESS STEEL IN ALL AREAS.
17. BRANCH CIRCUIT BREAKER AMPERE INTERRUPTING CAPACITY TO MATCH BUS RATING. PROVIDE 10% SPARE FOR FUTURE.
18. MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS TO BE 3%. CONDUCTORS SHALL BE OVERSIZED TO SUIT VOLTAGE DROP WHERE APPLICABLE.
19. CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED. CONDUCTORS IN RACEWAYS SHALL BE 775 NYLON (90 ACCEPTABLE IF DERATED AS PER OESC). ALL CONDUCTORS SHALL BE MINIMUM #10AWG FOR EMERGENCY BATTERY CIRCUITS AND EXTERIOR LIGHTING, #14AWG FOR CONTROL WIRING AND MINIMUM #12AWG FOR ALL OTHER APPLICATIONS.
20. ALL WIRE SIZES INDICATED ON DRAWINGS ARE BASED ON A 75°C TERMINATION TEMPERATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TERMINATION TEMPERATURE OF EACH DEVICE AND MODIFY THE WIRE SIZE TO SUIT OR NOTIFY ENGINEER FOR DIRECTION.
21. IDENTIFY EACH WIRE AND CABLE AT EVERY TERMINATION POINT. IDENTIFY ALL EMT AND/OR CONDUITS WITH "NEAT" COLOUR BANDS AT NO MORE THAN 25'(7.5m) INTERVALS AND ON BOTH SIDES OF WALLS & FLOOR.
22. NON-CURRENT CARRYING METAL PARTS FOR FIXED EQUIPMENT SHALL BE BONDED TO GROUND. INSTALL SEPARATE BONDING IN LIQUIDTIGHT CONDUITS.
23. DISCONNECT SWITCHES FOR HVAC EQUIPMENT MUST BE INSTALLED WITHIN 10' (3m).
24. MOTORS OTHER THAN AIR CONDITIONERS MUST HAVE DISCONNECT WITHIN SIGHT AND 30' (9m) OF THE MOTOR AND/OR STARTER.
25. CONTRACTOR IS RESPONSIBLE FOR LOAD BALANCING ALL DISTRIBUTION PANEL INSTALLATIONS. MEASURE PHASE CURRENT TO PANELBOARDS WITH NORMAL LOADS (LIGHTING) OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND RECORD CHANGES. SUBMIT AT COMPLETION OF WORK. REPORT LISTING PHASE AND NEUTRAL CURRENTS ON PANELBOARDS. DRY-CORE TRANSFORMERS AND MOTOR CONTROL CENTERS OPERATING UNDER NORMAL LOAD. STATE HOUR AND DATE ON WHICH EACH LOAD WAS MEASURED, AND VOLTAGE AT TIME OF TEST.
26. FIRE STOP ALL EXISTING AND NEW CONDUIT THROUGH FIRE SEPARATIONS.
27. ARRANGE FOR ESA INSTALLATION PERMIT AND INSPECTION AND FORWARD A COPY OF THE ESA CERTIFICATE TO THE ENGINEER UPON ACCEPTANCE (INCLUDING FIRE ALARM LISTED AS A SEPARATE ITEM). ARRANGE AND PAY FOR OCCUPANCY PERMIT IF FINAL INSPECTION CANNOT BE SCHEDULED BY COMPLETION DATE SET FORTH IN TENDER DOCUMENTS.

LIGHT FIXTURE SCHEDULE			
TAG	DESCRIPTION	MAKE / MODEL	ALTERNATE
EX	EXISTING LUMINAIRE	EXISTING	N/A
A	RECESSED 2x4 LED LUMINAIRE, K12 @ 125" PATTERN ACRYLIC LENS, 2-14W LED LAMPS, 1 INSTANT START BALLAST, 4000K 120V.	PIONEER LIGHTING TB24-248-120-K125	
L1	FIXED RECESSED DOWN LIGHT, 2500lm, 30W, 4000K FIELD SELECTABLE COLOUR TEMP, 120V, WET LOCATION, IC RATED	LIGHTLINE LUNA 56 PRO RA56-33-F-90-WH-WH-NC	
S _k	KEY OPERATED LIGHT SWITCH	EXISTING	
S _{os}	SWITCH PLATE MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH BUTTON, WHITE, 120V	LEVITON ODS10-IDW	HUBBELL LEGRAND ACUITY CONTROLS

EMERGENCY LIGHTING SCHEDULE		
TAG	DESCRIPTION	MAKE / MODEL
BU-1	STEEL BATTERY UNIT COMPLETE 1 4W LED HEAD, CORROSION RESISTANT, FACTORY WHITE, REMOVABLE FRONT ACCESS PANEL, LEAD ACID BATTERY, SOLID STATE PULSER TYPE CHARGER, TEST SWITCH, LED INDICATOR LIGHTS, 120/347V INPUT WITH LINE CORD KIT, 12V OUTPUT.	EQUAL TO LUMACELL RG12S360-1-LD7
	CEILING MOUNTED REMOTE SINGLE HEAD 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EQUAL TO LUMACELL RS08LD7

APPROVED ALTERNATES: BEGHELLI, EMERGI-LITE, AMLITE, STAN PRO

NOTE:
 1. ## DENOTES BATTERY UNIT.
 2. 'DS' DENOTES DOUBLE SIDED.
 3. ALLOW 20% SAFETY ON BACK-UP BATTERY PACK SIZING.
 4. ALL UNITS TO BE CSA CERTIFIED.
 5. EMERGENCY LIGHTING LIGHT LEVELS ARE TO BE TAKEN IN FOOT CANDLES BY THE CONTRACTOR AFTER PROJECT COMPLETION. ADVISE CONSULTANT OF TEST DATE FOR WITNESS AND OWN READINGS.

POWER LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
ΦTR	15A 120V 1PH GROUNDED DUPLEX RECEPTACLE TAMPER RESISTANT C/W STAINLESS STEEL COVER PLATE	HUBBELL BR15WHTR OR EQUAL
ΦTR	15A 120V 1PH GROUNDED FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE, TAMPER RESISTANT C/W STAINLESS STEEL COVER PLATE	HUBBELL GFTR15W OR EQUAL
ΦTR	20A 120V 1PH GROUNDED DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR20WHTR OR EQUAL
⊕	120V 1PH GROUNDED DIRECT EQUIPMENT CONNECTION	
D	POWER DOOR OPERATOR BY GENERAL CONTRACTOR. PROVIDE 120V POWER TO DOOR OPERATOR AND INTERLOCK WIRING BETWEEN OPERATOR AND WALL PUSH BUTTON	
EM	EMERGENCY CALL BUTTON. SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX, CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	
L	PUSH TO LOCK. SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	
Ⓛ	EMERGENCY AUDIBLE/VISUAL DEVICE. SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE. PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	
Ⓟ	"PUSH TO OPEN" FOR BARRIER FREE OR REGULAR DOOR CONTROL BY GENERAL CONTRACTOR. PROVIDE CONCEALED CONDUIT UP WALL TO DOOR OPERATOR C/W INTERLOCK WIRING TO DOOR OPERATOR.	
JB	JUNCTION BOX	
	EXISTING PANEL	
	HAND DRYER UNIVERSAL VOLTAGE, ALUMINUM WHITE FINISH	WORLD DRYER SLIMDRY L-974.

FIRE ALARM LEGEND	
	HEAT DETECTOR FIXED TEMPERATURE (135°/200°)
	SMOKE DETECTOR C/W INDICATION LIGHT
	COMBINATION HORN/STROBE. ## DENOTES STROBE CANDELA RATING. PROVIDE 15cd UNLESS OTHERWISE NOTED.
	STROBE ONLY. ## DENOTES STROBE CANDELA RATING. PROVIDE 15cd UNLESS OTHERWISE NOTED.
	END-OF-LINE RESISTOR (EOL)

COMMUNICATIONS LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
S	CEILING MOUNTED P.A. SPEAKER	VALCOM 9021
ES	ELECTRIC STRIKE BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE WIRING.	
P	PANIC BUTTON	
IC	INTERCOM	VALCOM V-1072B-ST

ELECTRICAL ABBREVIATIONS	
EX	EXISTING TO REMAIN
D	EXISTING TO BE REMOVED C/W CONDUIT/WIRING BACK TO SOURCE
RL	EXISTING TO BE RELOCATED. EXTEND FEED AS REQUIRED.
HL	HIGH LEVEL
WP	WEATHERPROOF
RI	ROUGH-IN ONLY
TR	TAMPER RESISTANT

STARTER LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
□	DISCONNECT SWITCH 'WP' DENOTES WEATHERPROOF	
☑	MANUAL MOTOR STARTER. RATED TO SUIT LOAD.	FRANKLIN BAS-1P

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No.	Date	Description	By
1	2025-02-05	Issued for Permit & Tender	SS
0	2025-01-22	Issued for Client Review	SS



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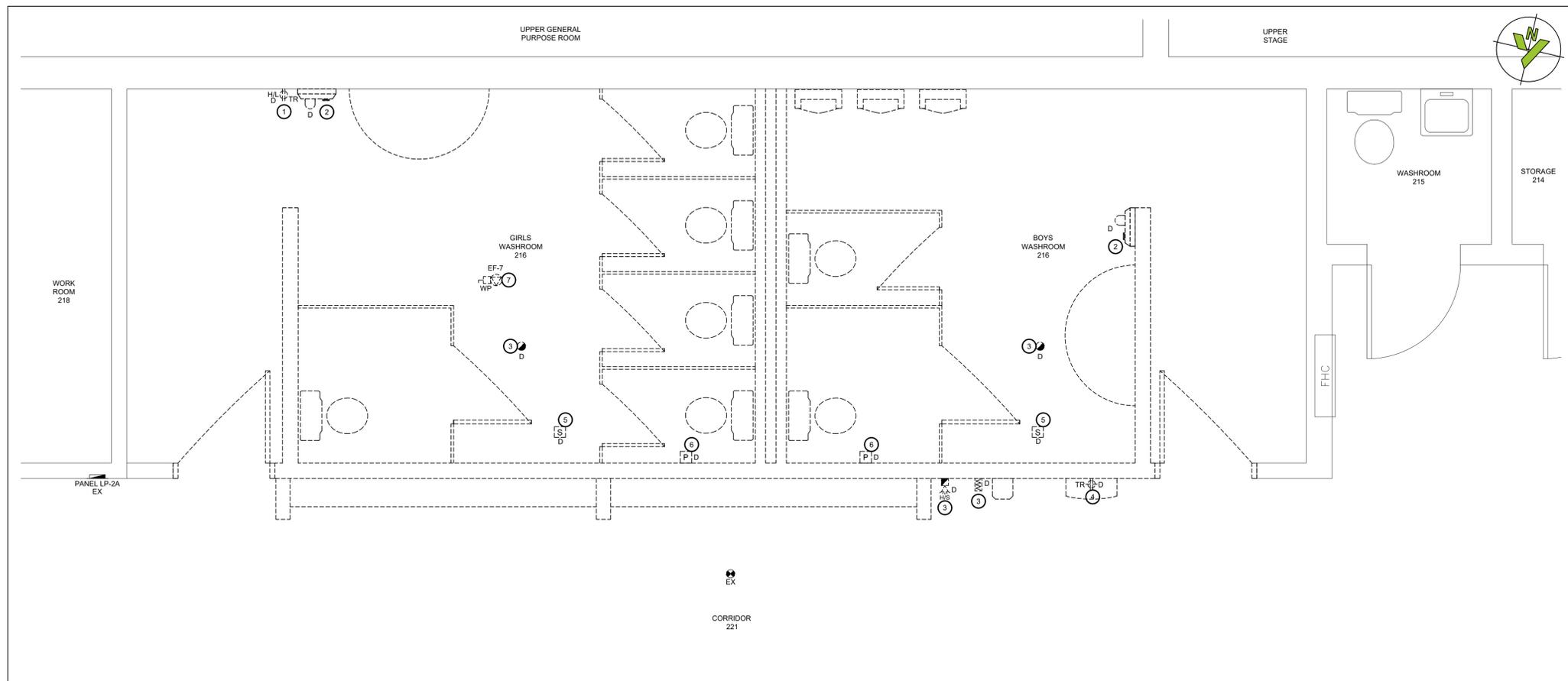
CLIENT:

 Ignite Learning

PROJECT NAME:
 WASHROOM RENOVATION AT
 STEPHEN G. SAYWELL PS
 855 ROUNDELAY DRIVE, OSHAWA, ON

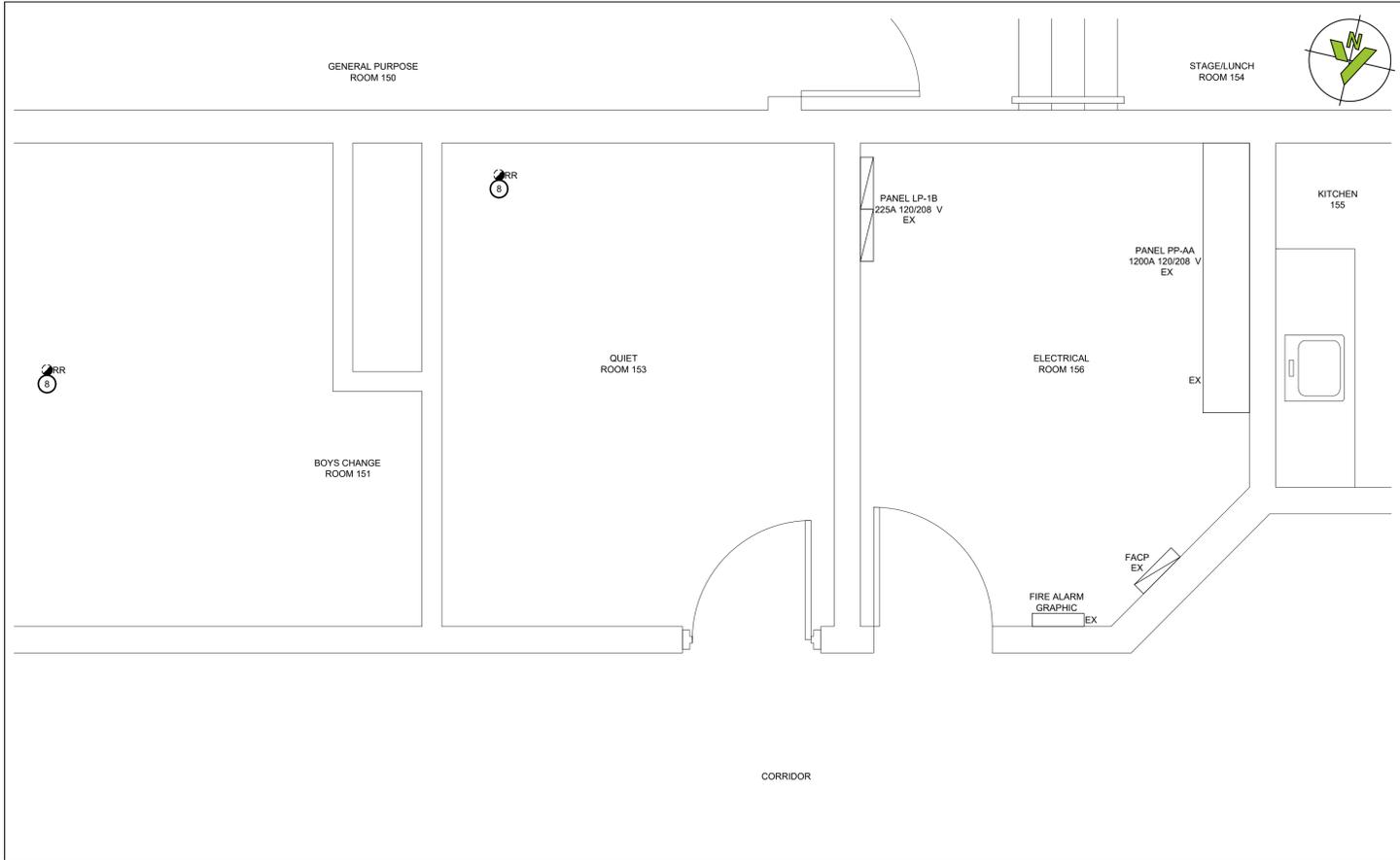
SHEET TITLE:
 LEGENDS AND NOTES

ELECTRICAL	
DRAWN BY: RLJC	SCALE: NTS
DESIGNER: SS	DATE: 2025/01/22
APPROVER: SS	APPROVER:
PROJECT No: Z0020280	DRAWING No: E-001
SHEET No: 1 of 5	

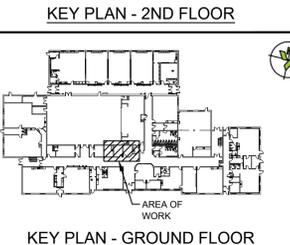
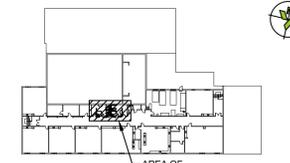


1 2ND FLOOR - WASHROOMS 216 & 217 - DEMO POWER LAYOUT
ED101 SCALE: 1:25

- WORKING NOTES :**
- 1 DEMOLISH EXISTING BATTERY UNIT RECEPTACLE.
 - 2 DEMOLISH HAND DRYER AND FEED BACK TO SOURCE.
 - 3 DEMOLISH EXISTING FIRE ALARM DEVICE. REMOVE FEED BACK TO NEAREST JUNCTION AND RETAIN FOR REUSE.
 - 4 DISCONNECT AND REMOVE EXISTING WATER BOTTLE RECEPTACLE C/W FEED BACK TO NEAREST JUNCTION BOX. RETAIN FEED FOR REUSE.
 - 5 DEMOLISH PA SPEAKER. REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX IN CEILING SPACE.
 - 6 DEMOLISH ABANDONED EMERGENCY PUSH BUTTON JUNCTION BOX BACK TO NEAREST JUNCTION BOX IN CEILING SPACE.
 - 7 DEMOLISH FAN LOCATED IN ROOF (EF-7) BACK TO SOURCE.
 - 8 ALLOW FOR REMOVAL AND REINSTALLATION OF EXISTING FIRE ALARM DEVICE TO SUIT REMOVAL OF CEILING FOR MECHANICAL WORK.

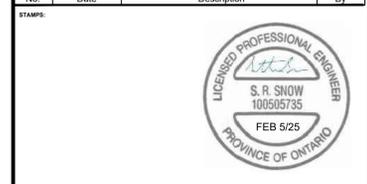


2 GROUND FLOOR - DEMO POWER LAYOUT
ED101 SCALE: 1:25



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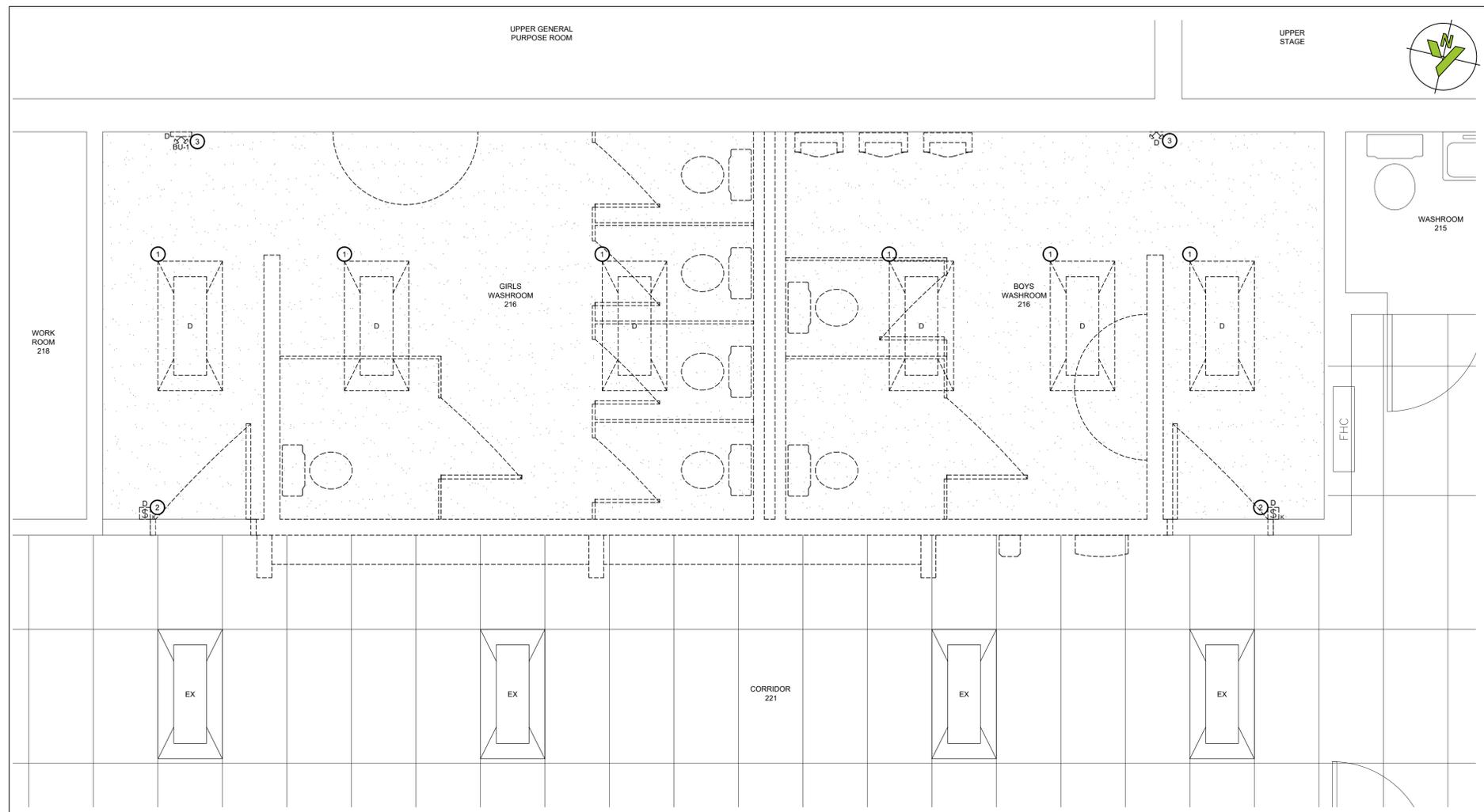
PROJECT NAME:
WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
2ND FLOOR
WASHROOMS 216 & 217
DEMO POWER LAYOUT

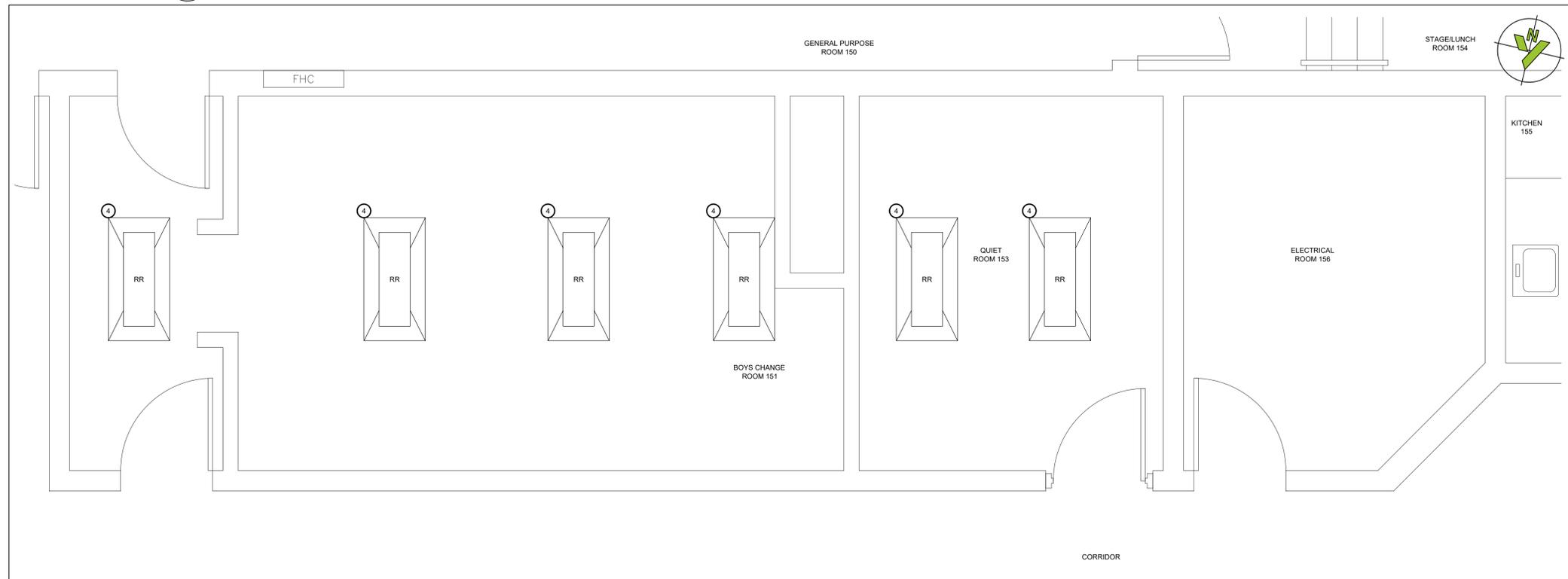
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DRAFTER: RLJC	SCALE: AS NOTED
DESIGNER: SS	DATE: 2025/01/22
APPROVER: LC	APPROVER:
PROJECT No: Z0020280	DRAWING No: ED101
SHEET No: 2 of 5	

WORKING NOTES:

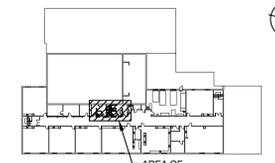
- 1 EXISTING RECESSED 2x4 LUMINAIRE TO BE DEMOLISHED. REMOVE WIRING BACK TO NEAR JUNCTION BOX AND MAKE SAFE. RETAIN FOR REUSE WITH NEW LAYOUT. DISPOSE OF PROPERLY
- 2 EXISTING KEY OPERATED LIGHT SWITCH TO BE DEMOLISHED. REMOVE WIRING BACK TO SOURCE. PROVIDE STAINLESS STEEL COVER PLATE FOR EXISTING BACK BOX.
- 3 EXISTING EMERGENCY LIGHTING TO BE DEMOLISHED. CONTRACTOR TO DEMOLISH ALL WIRING FOR REMOTE HEADS IN WASHROOMS, AND RETAIN CIRCUITS SERVICING ADJACENT HALLWAY AND SPACES FOR RECONNECTION ONTO NEW BATTERY UNIT.
- 4 REMOVE EXISTING LUMINAIRE TO SUIT ABOVE CEILING MECHANICAL WORK. ALLOW FOR INSTALLATION IN THE SAME POSITION. COORDINATE EXTENT OF REMOVAL WITH MECHANICAL PRIOR TO STARTING WORK.



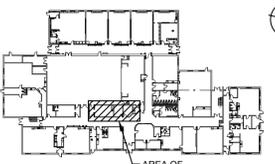
1 2ND FLOOR - WASHROOMS 216 & 217 - DEMO LIGHTING LAYOUT
ED102 SCALE: 1:25



2 GROUND FLOOR - LIGHTING LAYOUT
ED102 SCALE: 1:25



KEY PLAN - 2ND FLOOR



KEY PLAN - GROUND FLOOR

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STAMPS:

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CLIENT:

DDSB
Ignite Learning

PROJECT NAME:
**WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS**
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
**2ND FLOOR
WASHROOMS 216 & 217
DEMO LIGHTING LAYOUT**

DISCIPLINE: **ELECTRICAL**

DRAFTER: RLJC	SCALE: AS NOTED
DESIGNER: SS	DATE: 2025/01/22
APPROVER: LC	APPROVER:
PROJECT No: Z0020280	DRAWING No: ED102
SHEET No: 3 of 5	

WASHROOMS NEW POWER WORKING NOTES:

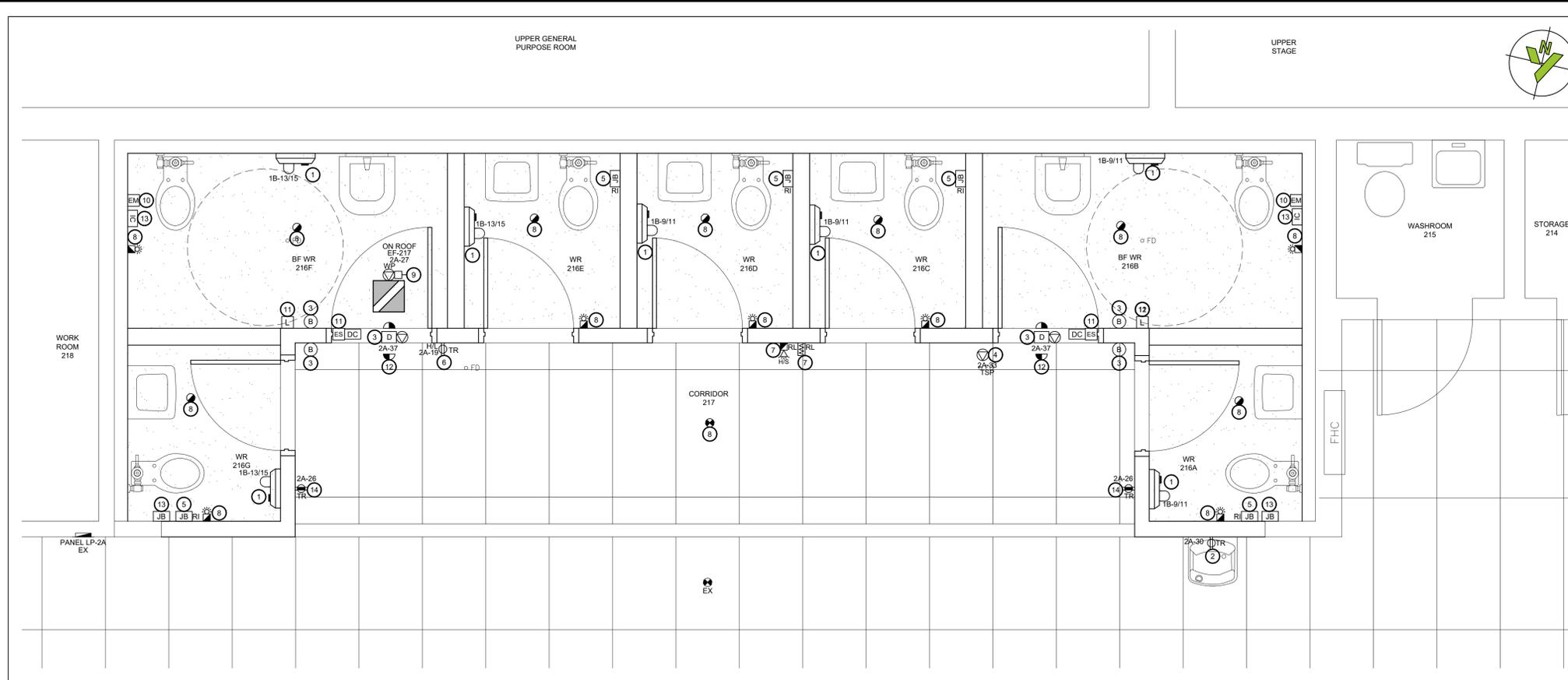
- 1 PROVIDE AND INSTALL NEW HAND DRYER C/W 208V DIRECT CONNECTION.
- 2 EXISTING FOUNTAIN ELECTRICAL FEED TO BE RELOCATED, EXTEND CONDUIT AND WIRING TO SUIT NEW LOCATION. PROVIDE NEW RECEPTACLE AS INDICATED.
- 3 PROVIDE AND INSTALL NEW AUTOMATIC DOOR OPERATORS C/W PUSH BUTTONS. SEE DETAILS.
- 4 PROVIDE 120V CONNECTION FOR MECHANICAL TRAP SEAL PRIMER. COORDINATE FINAL LOCATION ON SITE WITH MECHANICAL. COORDINATE JUNCTION BOX LOCATION WITH ALL TRADES FOR SUITABLE ACCESS.
- 5 PROVIDE RECESSED 4"x4" BACK BOX & 1/2" CONDUIT C/W PULL STRING IN WALL TO CEILING SPACE FOR FUTURE INTERCOM. PROVIDE STAINLESS STEEL COVER PLATE FOR BACK BOXES.
- 6 PROVIDE NEW TAMPER RESISTANT RECEPTACLE AT HIGH LEVEL FOR NEW BATTERY UNIT.
- 7 RELOCATE EXISTING HALLWAY HORN/STROBE AND END OF LINE DEVICE TO SUIT CONSTRUCTION. EXTEND CONDUIT AND WIRING AS REQUIRED.
- 8 PROVIDE AND INSTALL NEW FIRE ALARM DEVICES TO SUIT CONSTRUCTION.
- 9 PROVIDE AND INSTALL NEW POWER CONNECTION AND DISCONNECT TO SUIT NEW EXHAUST FAN ON ROOF. NEW FEED TO FOLLOW EXISTING ELECTRICAL PATHWAY. PERMANENTLY TAG ALL EQUIPMENT AND CONTROLS.
- 10 PROVIDE DOUBLE GANG ROUGH IN FOR NEW EMERGENCY ASSISTANCE BUTTON C/W INDICATOR LAMP BACK TO DOOR HARDWARE CONTROLLER. SEE DETAILS.
- 11 PROVIDE AND INSTALL NEW PUSH TO LOCK BUTTONS C/W ELECTRIC STRIKE AND DOOR CONTACT. SEE DETAILS.
- 12 PROVIDE AND INSTALL NEW EMERGENCY AUDIBLE/VISUAL DEVICE AT BARRIER FREE DOORS. SEE DETAILS.
- 13 PROVIDE RECESSED INTERCOM IN 4"x4" BACK BOX C/W 1/2" CONDUIT TO CEILING SPACE. SEE LEGEND.
- 14 PROVIDE NEW TAMPER RESISTANT RECEPTACLES IN CORRIDOR AS NOTED.

NEW CUSTODIAL ROOM POWER WORKING NOTES:

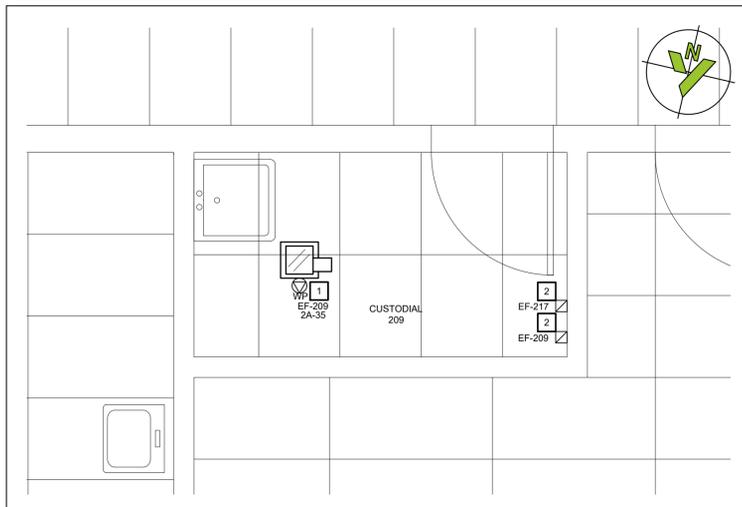
- 1 PROVIDE AND INSTALL NEW POWER CONNECTION AND LOCAL DISCONNECT TO SUIT NEW CEILING SUSPENDED EXHAUST FAN. PERMANENTLY TAG ALL EQUIPMENT.
- 2 PROVIDE NEW DISCONNECT RATED MANUAL STARTER TO SUIT NEW EXHAUST FANS AS INDICATED. PERMANENTLY TAG ALL EQUIPMENT.

NEW RCP WORKING NOTES:

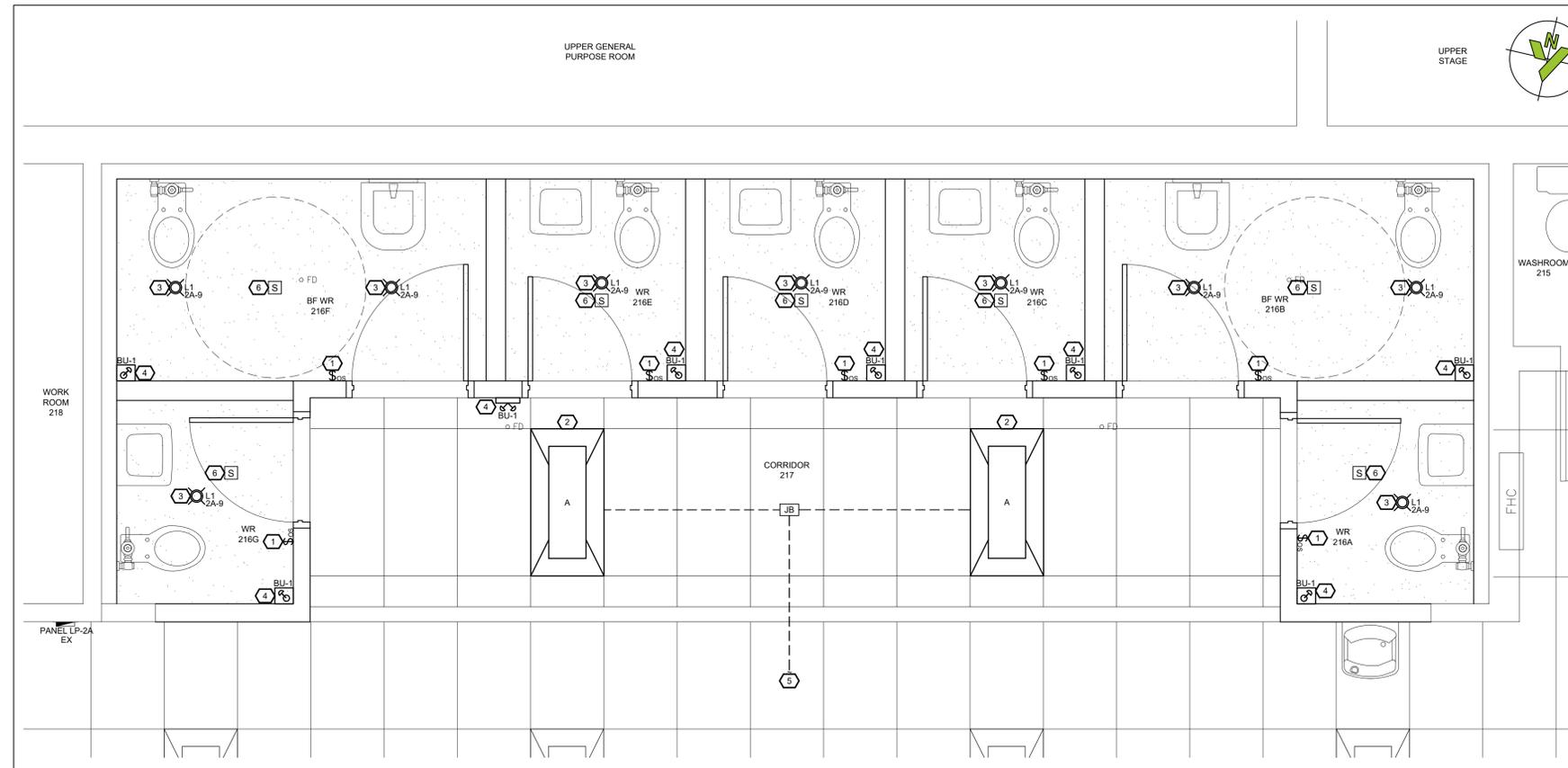
- 1 PROVIDE AND INSTALL NEW OCCUPANCY SENSOR SWITCH TO CONTROL LOCAL LIGHTING.
- 2 PROVIDE AND INSTALL NEW RECESSED 2x4 LUMINAIRE. PROVIDE TENMAT FF130 PREFABRICATED PROTECTION COVER TO MAINTAIN FIRE SEPARATION OF CEILING.
- 3 PROVIDE AND INSTALL NEW RECESSED CEILING MOUNTED POT LIGHT. CONTRACTOR TO EXTEND EXISTING LIGHTING CIRCUITS TO SUIT NEW LAYOUTS. PROVIDE TENMAT FF109-205 PREFABRICATED PROTECTION COVER TO MAINTAIN FIRE SEPARATION OF CEILING.
- 4 PROVIDE AND INSTALL NEW EMERGENCY LIGHTING C/W ALL CONNECTIONS TO NEW BATTERY.
- 5 CONTRACTOR TO INTERCEPT EXISTING HALLWAY LIGHTING POWER CIRCUITING AND CONTROLS TO CONNECT NEW 2x4 LUMINAIRES.
- 6 PROVIDE NEW PA SPEAKER ROUGH IN C/W CONDUIT IN CEILING SPACE. CONNECTION IS TO OFFICE ONLY. ALL WIRING TO BE CONCEALED.



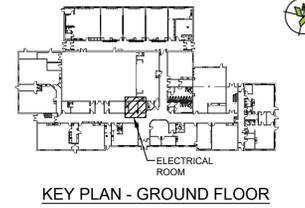
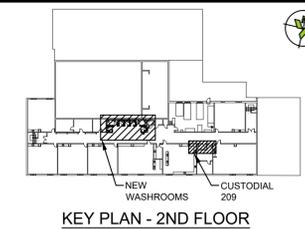
1 2ND FLOOR - NEW WASHROOMS 216A TOT 216G - NEW POWER LAYOUT
E-101 SCALE: 1:25



2 2ND FLOOR - CUSTODIAL ROOM 209 - NEW POWER LAYOUT
E-101 SCALE: 1:25



3 2ND FLOOR - NEW WASHROOMS 216A TOT 216G - NEW RCP LAYOUT
E-101 SCALE: 1:25



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No.	Date	Description	By
1	2025-02-05	Issued for Permit & Tender	SS
0	2025-01-22	Issued for Client Review	SS



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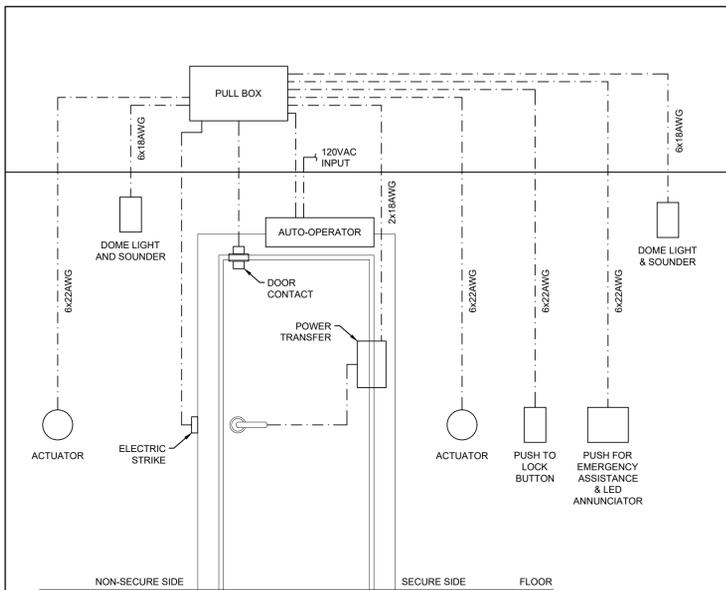
CLIENT:
DDSB
Ignite Learning

PROJECT NAME:
WASHROOM RENOVATION AT
STEPHEN G. SAYWELL PS
855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
2ND FLOOR
NEW WASHROOMS 216A TO 216G
NEW LAYOUT

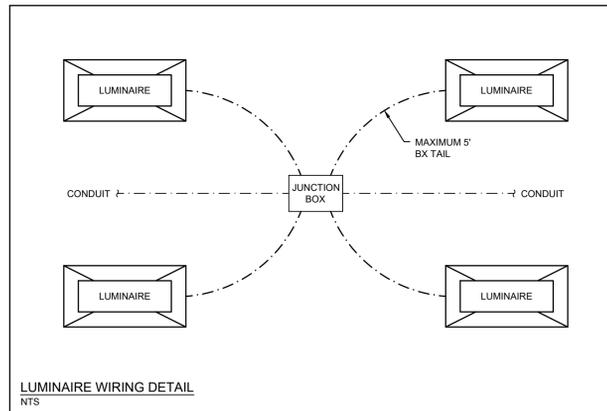
DISCIPLINE:
ELECTRICAL

DRAWN: RLJC	SCALE: AS NOTED
DESIGNER: SS	DATE: 2025/01/22
APPROVER: LC	APPROVER:
PROJECT No: Z0020280	DRAWING No: E-101
SHEET No: 4 of 5	



NOTE:
 ALL POWER, LOW VOLTAGE WIRING, ROUGH IN AND MOUNTING BOXES BY ELECTRICAL. INSTALLATION OF OPERATOR AND DEVICES BY DOOR HARDWARE SUPPLIER. THIS CONTRACTOR SHALL COORDINATE FINAL SELECTION OF ALL DEVICES PRIOR TO STARTING WORK TO ENSURE ALL WORK IS IN CONFORMANCE WITH FINAL DEVICE SELECTION.

BARRIER FREE WASHROOM DETAIL
 NTS



LUMINAIRE WIRING DETAIL
 NTS

EXISTING PANEL 'LP-2A'						
EXISTING MANUFACTURER: FEDERAL PIONEER NBLP42B						
225A, 42 CIRCUIT, 3P, 4W, 120/208 VOLT FLUSH MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH MAIN LUGS ONLY & COPPER BUS, 25 KAIC						
DESCRIPTION	BKR	CCT	SIN	CCT	BKR	DESCRIPTION
RM. 203	15A	1	2	15A	4-RECEPTACLES RM. 213	
HALL NIGHT LIGHTS & 2 EXIT LIGHTS	15A	3	4	15A	3-RECEPT. RMS. 214 & 215	
RM. 213 LIGHTS	20A	5	6	15A	3-RECEPT. RM. 216 & EAST HALL FRENCH RM.	
RMS. 214 & 216 LIGHTS	15A	7	8	15A	COUNTER RECEPT. ART RM.	
BOYS & GIRLS WASHRM LIGHTS	15A	9	10	15A	ART ROOM VENT FAN	
ART ROOM LIGHTS	15A	11	12	15A	KILN ART ROOM	
RM. 209 LIGHTS	20A	13	14	15A	KILN ART ROOM	
RM. 210 LIGHTS	20A	15	16	15A	3-RECEPT. ART ROOM	
RM. 211 LIGHTS	20A	17	18	15A	4-RECEPT. ART ROOM	
BATTERY PACK GIRLS WASHRM	15A	19	20	15A	4-RECEPT. RM 210	
E.F.-3 RM. 215	15A	21	22	15A	4-RECEPT. RM. 211	
RM. 202 - COMP. RECEPT.	15A	23	24	15A	HAND DRYER BOYS WASHRM.	
RM. 201 - COMP. RECEPT.	15A	25	26	15A	HAND DRYER GIRLS WASHRM.	
E.F.-7 BOYS WASHRM. SOLENOID	15A	27	28	15A	RM. 206	
E.F.-8 RM. 216	15A	29	30	15A	WATER BOTTLE FILLER	
E.F.-9 RM. 216	15A	31	32	15A	ART RM. - COMP. RECEPT.	
SPARE	15A	33	34	15A	RM. 208 - COMP. RECEPT.	
SPARE	15A	35	36	15A	1.G. RECEPT. FOR COMP. HUB	
		37	38	15A	R. 204 - COMP. RECEPT.	
		39	40	15A	MUSIC RM. - COMP. RECEPT.	
		41	42	15A	WORK RM. B - COMP. RECEPT.	

REVISED PANEL 'LP-2A'						
EXISTING MANUFACTURER: FEDERAL PIONEER NBLP42B						
225A, 42 CIRCUIT, 3P, 4W, 120/208 VOLT SURFACE MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH MAIN LUGS ONLY & COPPER BUS, 25 KAIC						
** DENOTES NEW BREAKER REQUIRED						
DESCRIPTION	BKR	CCT	SIN	CCT	BKR	DESCRIPTION
RM. 203	15A	1	2	15A	4-RECEPTACLES RM. 213	
HALL NIGHT LIGHTS & 2 EXIT LIGHTS	15A	3	4	15A	3-RECEPT. RMS. 214 & 215	
RM. 213 LIGHTS	20A	5	6	15A	3-RECEPT. RM. 216 & EAST HALL FRENCH RM.	
RMS. 214 & 216 LIGHTS	15A	7	8	15A	COUNTER RECEPT. ART RM.	
BOYS & GIRLS WASHRM LIGHTS	20A**	9	10	15A	ART ROOM VENT FAN	
ART ROOM LIGHTS	15A	11	12	15A	KILN ART ROOM	
RM. 209 LIGHTS	20A	13	14	15A	KILN ART ROOM	
RM. 210 LIGHTS	20A	15	16	15A	3-RECEPT. ART ROOM	
RM. 211 LIGHTS	20A	17	18	15A	4-RECEPT. ART ROOM	
BF WR 216	15A	19	20	15A	4-RECEPT. RM 210	
E.F.-3 RM. 215	15A	21	22	15A	4-RECEPT. RM. 211	
RM. 202 - COMP. RECEPT.	15A	23	24	15A	SPARE	
RM. 201 - COMP. RECEPT.	15A	25	26	20A**	RECEPTACLE CORRIDOR 217	
E.F.-217 RM. 217	15A	27	28	15A	RM. 206	
E.F.-8 RM. 216	15A	29	30	15A	WATER BOTTLE FILLER	
E.F.-9 RM. 216	15A	31	32	15A	ART RM. - COMP. RECEPT.	
TRAP SEAL PRIMER CORRIDOR 217	15A	33	34	15A	RM. 208 - COMP. RECEPT.	
E.F.-209 RM. 209	15A	35	36	15A	1.G. RECEPT. FOR COMP. HUB	
BF WR 216A & 216F ADO	20A**	37	38	15A	R. 204 - COMP. RECEPT.	
		39	40	15A	MUSIC RM. - COMP. RECEPT.	
		41	42	15A	WORK RM. B - COMP. RECEPT.	

EXISTING PANEL 'LP-1B' DOUBLE TUB						
EXISTING MANUFACTURER: EATON PRL1A						
225A, 84 CIRCUIT, 3P, 4W, 120/208 VOLT SURFACE MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH MAIN LUGS ONLY & COPPER BUS, 25 KAIC						
+ DENOTES MISLABELED CIRCUIT. CONTRACTOR TO VERIFY LOAD						
DESCRIPTION	BKR	CCT	SIN	CCT	BKR	DESCRIPTION
OUTSIDE SIGN	15A	1	2	15A+	UNKNOWN	
OUTSIDE SIGN	15A	3	4	15A+	UNKNOWN	
UNKNOWN	20A+	5	6	30A+	UNKNOWN	
		7	8			
		9	10			
		11	12			
		13	14			
		15	16			
		17	18			
		19	20			
		21	22			
		23	24			
		25	26			
		27	28			
		29	30			
		31	32			
		33	34			
		35	36			
		37	38			
		39	40			
		41	42			

REVISED PANEL 'LP-1B' DOUBLE TUB						
EXISTING MANUFACTURER: EATON PRL1A						
225A, 84 CIRCUIT, 3P, 4W, 120/208 VOLT SURFACE MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH MAIN LUGS ONLY & COPPER BUS, 25 KAIC						
* DENOTES GFI TYPE BREAKER						
+ DENOTES MISLABELED CIRCUIT. CONTRACTOR TO VERIFY LOAD						
** DENOTES NEW BREAKER REQUIRED						
DESCRIPTION	BKR	CCT	SIN	CCT	BKR	DESCRIPTION
OUTSIDE SIGN	15A	1	2	15A+	UNKNOWN	
OUTSIDE SIGN	15A	3	4	15A+	UNKNOWN	
UNKNOWN	20A+	5	6	30A+	UNKNOWN	
		7	8			
HAND DRYERS WASHROOM 216A,B,C,D	20A**	9	10			
		11	12			
HAND DRYERS WASHROOM 216E,F,G	20A**	13	14			
		15	16			
		17	18			
		19	20			
		21	22			
		23	24			
		25	26			
		27	28			
		29	30			
		31	32			
		33	34			
		35	36			
		37	38			
		39	40			
		41	42			

EXISTING PANEL 'LP-1B' DOUBLE TUB						
EXISTING MANUFACTURER: EATON PRL1A						
225A, 84 CIRCUIT, 3P, 4W, 120/208 VOLT SURFACE MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH MAIN LUGS ONLY & COPPER BUS, 25 KAIC						
DESCRIPTION	BKR	CCT	SIN	CCT	BKR	DESCRIPTION
GYM EXIT LIGHTS	15A	43	44	15A	4 RECEPTACLES RMS 135, 136, GYM S/E EXIT	
GYM LIGHTS (EAST H.P.S.), CENTRE LIGHTS	15A	45	46	15A	4-RECEPTACLES GYM	
STAFFROOM MICROWAVE	15A	47	48	15A	3-RECEPTACLES GYM + STAGE	
GYM LIGHTS, 135 (EAST FLR.), OUTER LIGHTS	15A	49	50	15A	4-RECEPTACLES STAGE	
WEST FLR. CENTRE LIGHT	15A	51	52	15A	GYM P.A. RACK	
GYM W. BACKSIDE	15A	53	54	15A	2 RECEPTACLES BOY + GIRL CHANGE RMS	
GYM LIGHTS (WEST H.P.S.), OUTSIDE LIGHTS	15A	55	56	15A	1 RECEPTACLE RM. 129	
RM. 102 - GFI	15A	57	58	15A	COUNTER RECEPTACLE RM. 129	
RM. 127 LIGHTS (EAST FLR.)	20A	59	60			
RM. 127 LIGHTS (WEST FLR.)	15A	61	62	15A	E.F.-10 LIGHTS RM 129	
BOYS CHANGE RM. LIGHTS	15A	63	64	15A	RECEPTACLE ELECTRICAL RM.	
GIRLS CHANGE RM. LIGHTS	15A	65	66			
BATTERY PACK - ELECTRICAL RM.	15A	67	68	70A	MOTORIZED PARTITION GYM	
TELEPHONE RECEPTACLE + SECURITY PANEL	15A	69	70			
T.V. RECEPTACLE	15A	71	72	15A	GYM EAST BACK STOP	
		73	74			
STAGE TRACK LIGHTS	15A	75	76	15A	CARMA	
		77	78			
RM. 103 COMPUTERS/WATER RN. REFILL STATION	15A	79	80	15A	SCOREBOARD	
RM. 104 COMPUTERS	15A	81	82	15A	HALL RECEPTACLE	
RM. 101 GFI	15A	83	84	15A	LIGHTS + RECEPTACLE, ELEVATOR PIT	

REVISED PANEL 'LP-1B' DOUBLE TUB						
EXISTING MANUFACTURER: EATON PRL1A						
225A, 84 CIRCUIT, 3P, 4W, 120/208 VOLT SURFACE MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH MAIN LUGS ONLY & COPPER BUS, 25 KAIC						
DESCRIPTION	BKR	CCT	SIN	CCT	BKR	DESCRIPTION
GYM EXIT LIGHTS	15A	43	44	15A	4 RECEPTACLES RMS 135, 136, GYM S/E EXIT	
GYM LIGHTS (EAST H.P.S.), CENTRE LIGHTS	15A	45	46	15A	4-RECEPTACLES GYM	
STAFFROOM MICROWAVE	15A	47	48	15A	3-RECEPTACLES GYM + STAGE	
GYM LIGHTS, 135 (EAST FLR.), OUTER LIGHTS	15A	49	50	15A	4-RECEPTACLES STAGE	
WEST FLR. CENTRE LIGHT	15A	51	52	15A	GYM P.A. RACK	
GYM W. BACKSIDE	15A	53	54	15A	2 RECEPTACLES BOY + GIRL CHANGE RMS	
GYM LIGHTS (WEST H.P.S.), OUTSIDE LIGHTS	15A	55	56	15A	1 RECEPTACLE RM. 129	
RM. 102 - GFI	15A	57	58	15A	COUNTER RECEPTACLE RM. 129	
RM. 127 LIGHTS (EAST FLR.)	20A	59	60			
RM. 127 LIGHTS (WEST FLR.)	15A	61	62	15A	E.F.-10 LIGHTS RM 129	
BOYS CHANGE RM. LIGHTS	15A	63	64	15A	RECEPTACLE ELECTRICAL RM.	
GIRLS CHANGE RM. LIGHTS	15A	65	66			
BATTERY PACK - ELECTRICAL RM.	15A	67	68	70A	MOTORIZED PARTITION GYM	
TELEPHONE RECEPTACLE + SECURITY PANEL	15A	69	70			
T.V. RECEPTACLE	15A	71	72	15A	GYM EAST BACK STOP	
		73	74			
STAGE TRACK LIGHTS	15A	75	76	15A	CARMA	
		77	78			
RM. 103 COMPUTERS/WATER RN. REFILL STATION	15A	79	80	15A	SCOREBOARD	
RM. 104 COMPUTERS	15A	81	82	15A	HALL RECEPTACLE	
RM. 101 GFI	15A	83	84	15A	LIGHTS + RECEPTACLE, ELEVATOR PIT	

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0	2025-01-22	Issued for Client Review	SS



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PROJECT NAME:
**WASHROOM RENOVATION AT
 STEPHEN G. SAYWELL PS**
 855 ROUNDELAY DRIVE, OSHAWA, ON

SHEET TITLE:
PANEL SCHEDULES & DETAILS

DISCIPLINE:		ELECTRICAL	
DRAFTER: RLJC	SCALE: NTS	DESIGNER: SS	DATE: 2025/01/22
APPROVER: LC	APPROVER:	PROJECT NO: Z0020280	DRAWING NO:
SHEET NO:	5 of 5	E-601	