	STEPHEN G.
	THE DUR
	SUS
LIS	TOF DRAWINGS
A001	ITECTURAL TITLE PAGE LEGEND AND GENERAL NOTES OBC DATA MATRIX EXISTING PROJECT PHOTOS EXISTING SITE PLAN EXISTING FLOOR KEY PLANS PART FLOOR PLANS - DEMOLITION PART FLOOR PLANS + RCP INTERIOR ELEVATIONS INTERIOR ELEVATIONS SCHEDULES DETAILS

SAYWELL PUBLIC SCHOOL OSHAWA, ONTARIO

RHAM DISTRICT SCHOOL BOARD

C L I E N T

SAN FRIEDRICH ARCHITECT INC.

ARCHITECTS

LEA CONSULTING LTD.

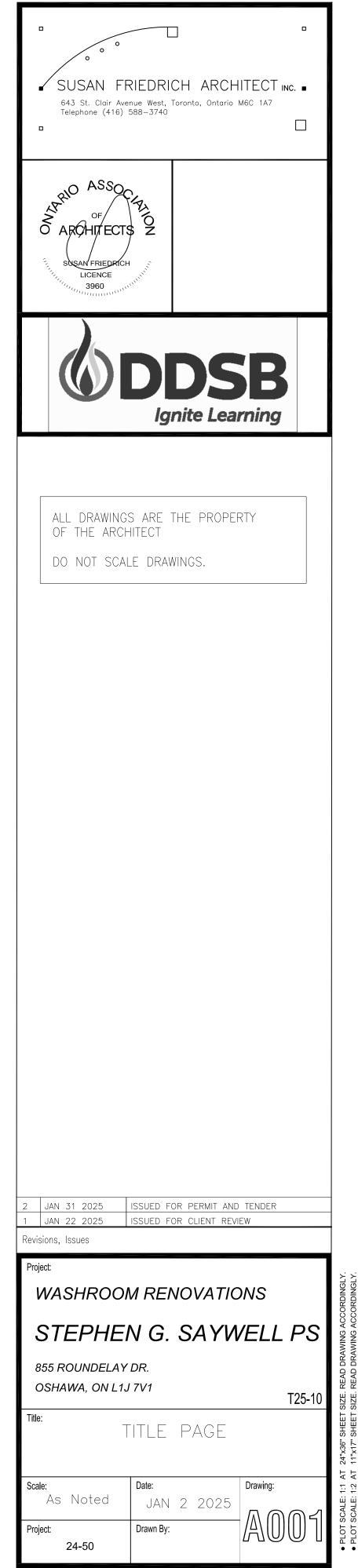
STRUCTURAL ENGINEERS

CIMA+

CHANICAL AND ELECTRICAL ENGINEERS

STRUCTURAL ELECTRICAL S-1 STRUCTURAL DRAWINGS E-001 ED-101 MECHANICAL ED-102 PLUMBING LEGEND AND NOTES P-001 PD-101 GROUND FLOOR AND 2ND FLOOR E-101 WASHROOM 216 & 217 DEMO PLUMBING LAYOUT E-601 P-101 GROUND FLOOR AND 2ND FLOOR NEW WASHROOMS 216A TO 216G NEW PLUMBING LAYOUT M-001 HVAC LEGENDS, NOTES, SCHEDULES AND CONTROLS GROUND FLOOR AND 2ND FLOOR MD-101 WASHROOMS 216 & 217 DEMO HVAC LAYOUT 2ND FLOOR NEW WASHROOMS 216A TO 216G M-101 NEW HVAC LAYOUT 2ND FLOOR CORRIDOR 221 REVISED HVAC M-102 LAYOUT DETAILS M501

LEGENDS AND NOTES 2ND FLOOR WASHROOMS 216 & 217 DEMO POWER LAYOUT 2ND FLOOR WASHROOMS 216 & 217 DEMO LIGHTING LAYOUT 2ND FLOOR NEW WASHROOMS 216A TO 216G NEW LAYOUT PANEL SCHEDULES & DETAILS



DATE PLOTTED: JAN 31 2025

STANDARD ABE	BREVIATIONS		GE
	RE REPEATED FREQUENTLY ON THE DRAWIN SCURE THE DETAILING. TO AVOID MISINTERF I THIS SECTION.		1. ALL DRAWING SCALED. THE PRIOR TO PR PRIOR TO PR PRIOR TO PR
REFER ALSO TO MECHANICAL AND I MECHANICAL AND ELECTRICAL DOC	ELECTRICAL DRAWINGS AND SPECIFCATIONS F UMENTS.	FOR OTHER ABBREVIATIONS USED IN	2. ALL MATERIA ONTARIO BUI SAFETY ACT/
ABBREVIATIONS NOT LISTED HERE N IN THE SPECIFCATION SECTIONS W	MAY BE USED IN TECHNICAL SECTIONS OF T HERE THEY ARE USED.	HE SPECIFCATIONS AND ARE DEFINED	MUNICIPAL RE 3. CONFORM TO
			4. NOTIFY THE C APPEARS TO
AB anchor bolt ABV above	FGB —— folding grab bar F'GLAS —— fibreglass	PT porcelain tile	SPECIFICATIO
A/C — air conditioning ACT — Acoustic tile	FHC fire hose cabinet FIN finish or finished FIG figure	QT quarry tile R resilient (base or flooring),	5. THE CONTRA BUILDING AND AND CONSUL
ACOUST — acoustic AQT — fibrerock aqua tough	FL, FLR — floor FPRG — fire proofing	receptacle riser, or radius RAD — radius, radiator	REPAIR ALL E WORK JOINS.
AFF — above finished floor AGG — aggregate ALUM, AL — aluminium	FRR fire resistance rating FTG footing	RC — recessed convector RCB — rubber continuous base	6. KEEP THE SIT
ANOD — anodized	FUT future GA gauge	RD — roof drain REC — recessed	AT ALL TIMES
AP acoustic panel ASPH asphalt	GALV <u> </u>	RECP — receptacle REINF reinforced	
AVB, A/VB — air/vapour barrier BD — board	GWB gypsum board GWB-R water resistant gypsum board	REQ, REQ'D required REV revised or revision	
BE <u> </u>	GBBH gypsum board bulkhead GL glass GR grade	RFG — rigid fiberglass (insul.) RF rubber flooring RES resilient sheet flooring	
BLDG — building BLK — block	GRAN granite or granular GRND ground	RSF — rubber sports flooring RH roof hopper	DE
BLKG — blocking BM — bench mark or beam	HB — hose bibb HD — hand dryer HDWR — hardware	RO rough opening RP receptacle panel	1. ALL EXISTING
BOT <u> </u>	HDWR — hardware HM — hollow metal HMS — hollow metal screen	RT — rubber tile RUB — rubber	AND DISPOS
BS, B/S — both sides BSMT — basement	HORIZ — horizontal HSH — handheld shower	RWL <u> </u>	2. DISPOSE OF WITH THE RE
BU built-up BUR built-up roofing	HR — hour HT — height HTR — heater	SAN — sanitary SCA, SCB — special coating (Type A,B, etc.)	3. ALL EXISTING PROTECTED
CA <u> </u>	HW hot water	SD — soap dispenser SECT — section	4. MAKE GOOD MATCH EXIS
CAR — carpet CART — carpet tile	IC included in contract ID inside dimensions	SFPRG — sprayed fireproofing SGL — single glazed	MATCHEAS
CB —— catch basin or conc. block or chalkboard	INSUL — insulation or insulated INT — interior	SIM — similar SND — sanitary napkin disposal	
C/C <u> </u>	INV — invert J or JAN — janitor JT joint	SNV <u>sanitary napkin vendor/dispenser</u> SPEC <u>specifications</u>	CONS
CH <u> </u>	KO <u> </u>	SPD	1. MAINTAIN AN
C JT <u> </u>	LAM — laminate(d) LAP — lay-in acoustic panel	SQ — square SRC — semi-recessed convector	FIREPROOFIN
CLG — ceiling CLNG — ceiling	LAT — lateral LAV — lavatory	SS — stainless steel, or slop sink	2. GENERAL CO ACCESS AND
CLK — caulk(ing) CLOS — closet	LH left hand LFT overhead lift track	ST or STL — steel STD — standard STM — storm	3. FILL ALL OPE FITMENTS PR
CMT ceramic mosaic tile CO cleanout	LS — light standard LSSJ — long-span steel joist	STR or structural STRUC or STRUCT SUSP suspended	4. MAKE GOOD /
COL — column CONC — concrete	LWB <u> </u>	SV <u> sheet vinyl</u> flooring SW <u> switch</u>	SEALED WITH EXISTING DAT
COND — conduit CONN — connect or connection	MACH — machine MAT — mineral acoustic tile	SWBD — switchboard T — tread or terrazzo	MAXIMUM FL/
CONST —— construction CONV —— convector	MAX — maximum MECH — mechanical	TB — tackboard T & G — tongued and grooved	5. MODIFY TELE DRAWINGS.
CP <u> </u>	MEL — melamine MET/MTL — metal	TD <u>toilet tissue dispenser</u> TDD <u>towel dispenser</u>	6. ALL EXPOSED D
CRC — cold rolled chanel CRS — courses	MEMB <u>membrane</u> MEZZ <u>mezzanine</u>	and disposal unit TEL telephone TER terrazzo	SURFACES UNL PROCEEDING.
CS — convenience shelf CSK — countersunk	MFD — manufactured MFR — manufacture(r)/min.	TM tilted mirror TME to match existing	7. SEE M & E DRAV MAKE GOOD AN
CT <u> </u>	fire rating MG make good MGTME make good to match	T/O top of TP telephone pole	8. HAZARDOUS AN IF HAZARDOUS
CW <u> </u>	MH — manhole MIR — mirror	TRANSF — transformer TRR — temperature rise rating	CONSTRUCTION BY CONTRACTO
CWT <u>ceramic wall tile</u> DB1, DB2 <u>decorative block</u>	MIN — minimum MIN — minimum MISC — miscellaneous MM — millimetres	T'STAT <u> </u>	9. ENTIRE FLOOR / PROVIDE COVER
DET <u> </u>	MO — masonry opening MRT — marble tile	TYP — typical U — up	SYSTEM, PATCH STRUCTURAL C ETC.) FIRE PRO
DG — door grille DGL — double glazed	MR <u> </u>	UC — undercut U/F — unfinished	10. COORDINATE A
DIA <u> </u>	MTD mounted N/A not applicable NIC not included in contract	UFD underfloor duct UNO unless noted otherwise	NEW WALLS TO APPEARANCE. PRIOR TO DUC
DIV — division DO — ditto	NO — number NOM — nominal	U/P or UP under painted U/S underside	BETWEEN DUCT
DN — down DR — drain	NTS not to scale OA overall	V varnish VAR variable or varies	INDICATED ARE FACILITATE FUL
DS — downspout DWG — drawing EC — emergency call system	OC — on centre OD — outside dimension	VAT — vinyl asbestos tile VB — vapour barrier	12. MODIFY CEILING
ECT electrical change table	OGL <u>obscure glass</u> OH <u>overhead</u>	VCT vinyl composition tile VENT ventilated, ventilator or	13. CONTRACTOR S APPROVAL BY C DRAWINGS AND
ELEC — electrical ELEV — elevator EMERG — emergency	OFS <u>overflow</u> scuppers OPNG <u>opening</u>	ventilation VERT vertical	ARCHITECT FOR
ENCL — enclosure	OPP — opposite OWSJ — open-web steel joist	VEST <u>vestibule</u> VOL <u>volume</u>	14. ALL ELECTRICA BE AIR SEALED.
EQ — equal	P paint PA public address	VWP vinyl wall panel VF vinyl faced	15. ELECTRONIC CO PREPARATION (
EQUIP — equipment EWC — electric water cooler	PB B/F push button PB-1 B/F push button - to lock	VT vinyl tile WBLKG wood blocking	AVAILABLE.DRA AVAILABLE AS-I SUBMISSION.
EWPM — exposed waterproofing membrane	PC or PCC—— precast concrete PE —— porcelain enamel	WD — wood WIN — window	THE DRAWINGS
EXH — exhaust EXIST — existing	PEP — porcelain enamel panel PERIM — perimeter	WDW — window WP _ waterproof	
EXP — exposed EX JT — expansion joint	PERF — perforate(d) PF — prefinished	WPFG <u>waterproofing</u> W/ with	
EXT — exterior FA — fire alarm	PL plaster, plate, or property line PLAM plastic laminate	WPG — wired plate glass WR — washroom	
FD — floor drain, or fire damper	PLT — plate PLSTR — plaster		
FDN foundation FE fire extinguisher	PLYWD — plywood PNL — panel		
FEC <u> fire</u> extinguisher cabinet FF <u> force</u> flow heater	PTD paper towel dispenser PTN partition		
F.F. — Finished Floor			

GENERAL NOTES

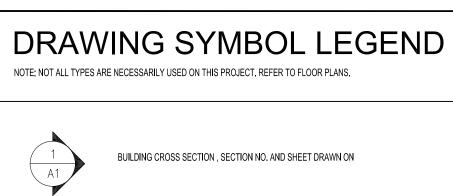
- AWINGS ARE THE PROPERTY OF THE ARCHITECT. DRAWINGS MUST NOT BE ED. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE TO PROCEEDING. DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT TO PROCEEDING WITH THE WORK AFFECTED, FOR DIRECTION.
- ATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF THE NO BUILDING CODE LATEST EDITION AND THE OCCUPATIONAL HEALTH AND TY ACT/REGULATIONS FOR CONSTRUCTION PROJECTS. COMPLY WITH ALL CIPAL REGULATIONS.
- ORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REMENTS.
- Y THE CONSULTANT PRIOR REMOVING ANY PORTION OF THE BUILDING THAT ARS TO BE STRUCTURAL REGARDLESS OF THE NOTATION ON THE DRAWINGS AND FICATION.
- ONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING NG AND EQUIPMENT AND REPAIR SAME TO THE SATISFACTION OF THE OWNER CONSULTANT.
- R ALL EXISTING JOINTS, FINISHES, ADJACENT SURFACES, ETC. WHERE NEW JOINS. PROTECT EXISTING FROM DAMAGE DURING WORK. REPAIR ANY GE THAT SHOULD OCCUR.
- THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION L TIMES TO THE SATISFACTION OF THE OWNER.

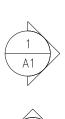
EMOLITION NOTES

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

NSTRUCTION NOTES

- AIN ANY EXISTING FIRE RATED SEPARATIONS & ASSEMBLIES. MAKE GOOD ANY PROOFING DISTURBED BY CONSTRUCTION.
- RAL CONTRACTOR SHALL CUT WALLS, FLOOR ETC., FOR MECHANICAL AND ELECTRICAL SS AND SERVICES TO SUIT REQUIRED DIMENSIONS.
- L OPENINGS & CRACKS DUE TO REMOVAL OF EXISTING PIPES, DUCTS, CONDUITS & NTS PRIOR TO FINISHING FLOORS & WALLS.
- GOOD ALL PENETRATIONS THROUGH FIRE SEPARATIONS. ALL PENETRATIONS TO BE D WITH RATED MATERIAL. REPAIR EXISTING SPRAYED ON FIREPROOFING AT ALL ING DAMAGED AREAS AND WHERE DISTURBED BY THE WORK OF THIS CONTRACT. MUM FLAME - SPREAD RATING OF 150 FOR ALL INTERIOR FINISHES.
- Y TELEPHONE , ELECTRICAL, ALARM & HVAC AS REQUIRED REFER TO M&E
- OSED DUCTWORK, CONDUIT AND M/E EQUIPMENT TO BE PAINTED TO MATCH ADJACENT ES UNLESS SPECIFICALLY NOTED. CONFIRM ALL FINISHES WITH ARCHITECT PRIOR TO
- E DRAWINGS FOR RE-LOCATION AND/OR REMOVAL OF OBSOLETE EQUIPMENT. PATCH & OOD AND FINAL FINISH TO MATCH NEW CONDITION
- OUS AND DESIGNATED SUBSTANCES RDOUS MATERIALS / DESIGNATED SUBSTANCES ARE ENCOUNTERED DURING UCTION, OWNER IS TO BE NOTIFIED IMMEDIATELY. MATERIALS ARE NOT TO BE REMOVED TRACTOR. CONTRACTOR TO COORDINATE W/ OWNER AND OWNER'S CONTRACTOR.
- FLOOR AREA: E COVERS FOR ALL OPENINGS, SOCKETS, ETC, TO EXISTING UNDER FLOOR RACEWAY I, PATCH OVER AND SEAL. ALL CUTTING, DRILLING AND BORING OF EXISTING FLOOR OR URAL CEILING SLAB MUST ENSURE INTEGRITY OF STRUCTURAL SYSTEM (IE. REBAR, STEEL, E PROTECTION AND AIR TIGHTNESS ARE MAINTAINED.
- NATE ALL CUTTING AND PATCHING AROUND SERVICES ETC. PENETRATING EXISTING OR LLS TO MAINTAIN STRUCTURAL, FIRESTOPPING, AIR TIGHTNESS INTEGRITY AND ANCE. FINISH ALL OPENINGS AROUND DUCTS & OTHER OPENINGS, ETC WITH DRYWALL DUCT PLACEMENT-TAPE, SEAL & PRIME. PROVIDE FIRE STOPPING / AIR BARRIER SEALANT N DUCT, ETC. AND DRYWALL PERIMETER. MAKE GOOD ALL SURFACES FOR FINAL FINISH.
- JIPMENT LOCATIONS TO BE COORDINATED WITH THE OWNER. EQUIPMENT LOCATIONS ED ARE FOR INFORMATION ONLY - CONTRACTOR TO COORDINATE INTERACTING TRADES TO TE FULL OPERATION WHEN THE EQUIPMENT IS INSTALLED BY OWNER.
- CEILING & LIGHTING AT EXISTING AREAS AS REQ'D
- CTOR SHALL CHALK LINE ALL PARTITIONS AND EQUIPMENT POSITIONS FOR REVIEW & AL BY OWNER PRIOR TO COMMENCEMENT OF WORK. IF CONFLICT ARISES BETWEEN 3S AND FIELD MEASUREMENTS THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE CT FOR DIRECTION. AT NO TIME SHALL THE CONTRACTOR PROCEED IN UNCERTAINTY. CTRICAL BOXES, PENETRATIONS, ETC. THROUGH WALLS DESIGNATED TO BE AIR-TIGHT TO
- DNIC COPIES OF THE ARCHITECTURAL DRAWINGS FOR THIS PROJECT FOR USE IN THE ATION OF SHOP DRAWINGS AND AS-BUILT DRAWINGS (AND FOR NO OTHER PURPOSE) ARE LE DRAWINGS ARE IN AUTOCAD (LATEST VERSION) FILE FORMATS. THE DRAWINGS ARE LE AS-IS AND AT A COST OF \$100.00 PER DRAWING WITH A MINIMUM OF \$400.00 PER AWINGS WILL BE PROVIDED WITHOUT ANY TITLE BLOCKS OR SEALS.







(10000)

WALL CROSS SECTION , SECTION NO. AND SHEET DRAWN ON

INTERIOR ELEVATION REFERENCE NUMBERS INDICATE VIEW NUMBER



ELEVATION DATUM







GWB 3000

- GRID LINE AND BUBBLE REFERENCE
- DETAIL REFERENCE BUBLE, CEILING TYPE AND CEILING HEIGHT A.F.F.
- (1) WALL TYPE (A105) DOOR NUMBER - FIRST FLOOR AT ROOM NO. A105 (W1) WINDOW NUMBER
- S1 SCREEN NUMBER R1 ROOF TYPE



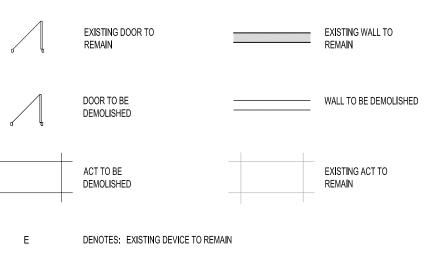
NIC

EQUIPMENT NOT IN CONTRACT

ROOM NAME AND NUMBER

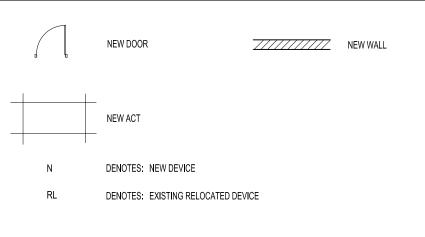
EXISTING FINISH FLOOR ARE APPROXIMATE; SITE VERIFY PRIOR TO + 0.00 COMMENCING CONSTRUCTION

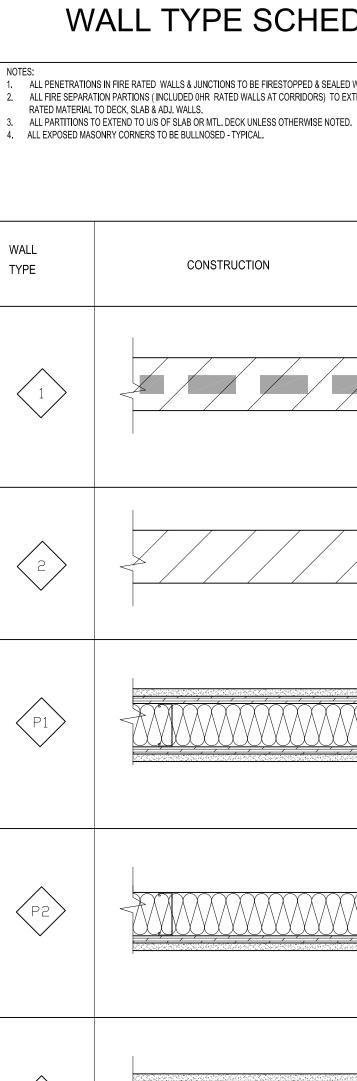
DEMOLITION LEGEND



- ER
- DENOTES: EXISTING DEVICE TO BE RELOCATED
- DENOTES: EXISTING DEVICE TO BE REMOVED AND DISPOSED R
- REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR LIGHT FIXTURES, GRILLES, DIFFUSERS & DEVICES. LOCATIONS TO BE CONFIRMED.

CONSTRUCTION LEGEND





<РЗ)

DULE				
D WITH RATED MATERIAL. XTEND TO U/S OF SLAB OR MTL. D.	DECK AND TO BE FIRESTOPPED & SEALED WITH	CONCRE 1HR 2HR	<u>TE BLOCK</u> 90mm 75% SOLID 140mm STANDARD 140mm 75% SOLID 190mm 75% SOLID	 SUSAN FRIEDRICH ARCHITECT INC. 643 St. Clair Avenue West, Toronto, Ontario M6C 1A7 Telephone (416) 588-3740 ACC
	DESCRIPTION		MINIMUM FIRE RATING AND SOUND TRANSMISSION CLASS	ARCHITECTS 2
	INTERIOR LIGHT WEIGHT MASONI 140mm CONCRETE BLOCK NOTE: WALL TO BE EXTENDED OF STRUCTURAL DECK + SMOP FIRE SHIELD ALL SIDES.	TO U/S	1 HR. FIRE RATING O.B.C. SB-2 SUPP.STD. 2.1.1. TABLE 2.2.1	SUSAN FRIEDRICH LICENCE 3960 SOBDDSB
	INTERIOR LIGHT WEIGHT MASONI 140mm CONCRETE BLOCK NOTE: HEIGHT AS PER INTERIOF ELEVATIONS – USE BULL NOSE AT EXPOSED CORNERS	2		ALL DRAWINGS ARE THE PROPERTY OF THE ARCHITECT
	INTERIOR ACOUSTIC WALL PARTI 16mm IMPACT-RESISTANT GWB 19mm PLYWOOD ±92mm METAL STUDS @ 400n ±89mm ACOUSTIC BATTS 19mm PLYWOOD 16mm IMPACT-RESISTANT GWB NOTE: WALL EXTENDED TO U/S DECK. PLYWOOD TO EXTEND 10 CEILING.	nm O.C.		DO NOT SCALE DRAWINGS.
	INTERIOR ACOUSTIC WALL PARTI ±92mm METAL STUDS @ 400n ±89mm ACOUSTIC BATTS 19mm PLYWOOD 16mm IMPACT-RESISTANT GWB NOTE: WALL EXTENDED TO U/S DECK. PLYWOOD TO EXTEND 10 CEILING.	nm O.C.		
	INTERIOR ACOUSTIC WALL PARTI 16mm IMPACT-RESISTANT GWB ±92mm METAL STUDS @ 600n ±89mm ACOUSTIC BATTS 16mm IMPACT-RESISTANT GWB NOTE: WALL TO BE EXTENDED UNDERSIDE OF SLAB.	nm 0.C.	1HOUR FIRE RATING ULC DESIGN W415 STC 50 SOUND: NRC TL-93-324	
				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: LEGEND AND GENERAL NOTES
				Scale: As NotedDate: JAN 2 2025Drawing: AN 0002Project: 24-50Drawn By: ADrawn Drawn By: A

Susan 643 St	of Practice: Friedrich Architect II . Clair Ave. West o ON M6C 1A7	с.	ARCHITECTS
	of Project: en G. Savwell Public	School – Washroom Renovations	O ARCHITECTS
Locati	v		SUSAN FRIEDRICH LICENCE 3960
Date: Januar	ry 31, 2025		mmmmm
oundu		4 Ontario Building Code Data Matrix Part 11 – Renovation	Buildin Code Referenc
11.00	Building Code Version:	O. Reg. 163/24 Last Amendment O. Re	g. 447/24
11.01	Project Type:	□ Addition	renovation [A] 1.3.3.3B.
		Description: Interior Renovation to Washrooms at 2 nd Floo	
11.02	Major Occupancy Classification:	Occupancy Use A2 Elementary School	3.1.2.1.(1), 2.1.4.1.(1), a 11.2.1.
11.03	Superimposed		11.2 , 3.2.2.5
11.00	Major Occupancies:	⊠ No □ Yes Description:	3.2.2.8., and 2.2.1.
11.04	Building Area (m ²)	Description: Existing New	Total [A] 1.4.1.2., 1 and 11.3.
		Stephen G. Saywell PS including 3050 0 proposed renovation (88.8 m ²)	
			0
		00	0
		00	0
	Insert additional lines as needed	 <u>30500</u> Total	3050
11.05	Building Height	· · · · · · · · · · · · · · · · · · ·	ove grade [A] 1.4.1.2., 3.2.1.1., 2.2.2 and 11.3.
11.06	Number of Streets/ Firefighter Access	1_street(s)	3.2.2.10., 3.2 2.2.4.1., and 11.3.
	Building Size	□ Small □ Medium □ Large □ > Lar	ge 11.2.1.1., and

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January 2025

11.08	Existing Building Classification:	Change in Major Occu	oancy: 🗆 Yes		able e of major occ	upancy)	10.1.1.2., 11.2.1.1. T 11.2.1.1.A
		Construction Index:	0				
		Hazard Index:	0				T 11.2.1.1.B to N
		Importance Category :		☐ Normal☐ Post-disas	ster		4.1.2.1.(3), 2.3.1., and 5.2.2.1.(2)
11.09	Renovation Type:	Basic Renovation	Extensive	Renovation			11.3.3.1., and 11.3.3.2.
11.10	Occupant Load	Floor Level/Area	Occupancy <u>Type</u>	y <u>Based C</u>		cupant Load <u>rsons)</u>	3.1.17., 2.1.2.2., and 11.4.2.2.
	EXISTING					0	
						0	
						0	
	Insert additional lines as needed					0	
11.11 a	Plumbing Fixture Requirements	Ratio: <u>M:F = 50</u>	50 Except as o	<u>therwise note</u>	d		3.7.4., 11.3.4., 11.3.5., 11.4.2.4., and 11.4.2.5.
		Floor Level/Area	<u>Occupant</u> Load	<u>OBC</u> <u>Reference</u>	<u>WCs</u> <u>Required</u>	<u>WCs</u> Provided	
		_2 nd Floor	Existing	<u>3.7.4.3.(14</u>)0	<u>7 (new)</u>	
			0_		0	0	
	Insert additional lines as		0_		0	0	
	needed		0_		0	0	
11.11 b	Plumbing Fixture Requirements continued:	<u>Floor Level/Area</u> (<u>repeated)</u>	WCs	<u>Barrier-free</u> <u>WCs</u> Provided	<u>Universal</u> <u>Washrooms</u> <u>Required</u>	<u>Universal</u> Washrooms Provided	Tables 3.8.2.3.A and 3.8.2.3.B
		2 nd Floor	1	2	0	0	
			0		0	0	
	Insert additional lines as needed		0		0	0_	
			0		0	0	
11.12	Barrier-free Design:	existin	vidual Barrier Fi ng B/F WC stall vs WR (total 2).				11.3.1.2., 11.3.2., 11.3.3.2.
	Barrier-free Entrances:	Number EXIST					

11.13	Reduction in	Structural:	·			11.4.2.1.
11.15	Performance Level:	By Increase in occupant loa	d.	⊠ No		11.4.2.2.
		By change of major occupat		⊠ No		11.4.2.3.
		Plumbing:		⊠ No		11.4.2.4.
		Sewage-systems:		⊠ No	□ Yes	11.4.2.5.
		Extension of buildings of		🛛 No	□ Yes	11.4.2.6.
		combustible construction:		⊠ No	□ Yes	
11.14	Compensating Construction:	⊠ No □ Yes				11.4.3.1.
	Construction.	Structural:	🗆 No	□ Yes	(Describe)	11.4.3.2.
		Increase in occupant load:	🗆 No	□ Yes	(Describe)	11.4.3.3.
		Change of major occupancy	/: □ No	□ Yes	(Describe)	11.4.3.4.
		Plumbing:	🗆 No	□ Yes	(Describe)	11.4.3.5.
		Sewage systems:	🗆 No	□ Yes	(Describe)	11.4.3.6.
		Extension of buildings of combustible construction:	□ No	□ Yes	(Describe)	11.4.3.7.
11.15	Compliance Alternatives Proposed:	⊠ No □ Yes				11.5.1.
	Insert additional lines as needed					
11.16	Alternative Solutions					[A] 1.2.1.1., and [C] 2.1.
	Insert additional lines as needed					
11.17	Notes:					
	Insert additional lines as needed					

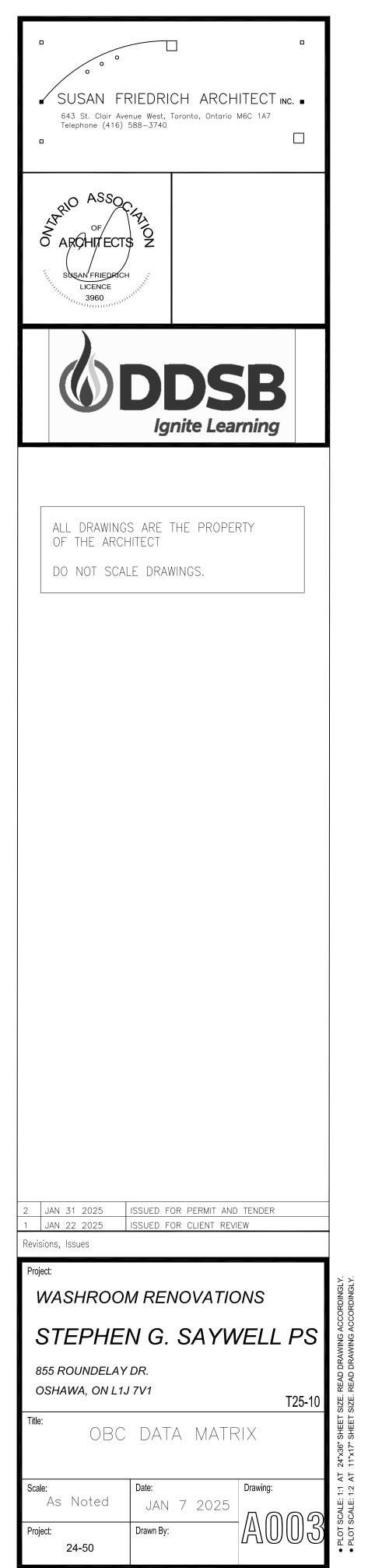
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January 2025

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NOTES ON WC REQUIREMENTS: TOTAL OCCUPANT LOAD: 213 FEMALE 213 MALE TOTAL PROPOSED STUDENT WC'S AFTER RENOVATION: 11 FEMALE 10 MALE TOTAL CAPACITY PER 3.7.4.3.(14): 286 FEMALE 300 MALE PROPOSED WASHROOMS ON 2ND FL + EXISTING WASHROOMS ON GROUND FL EXCEED OBC REQUIREMENTS BASED ON OCCUPANT LOAD

January 2025



DATE PLOTTED: FEB 05 2025



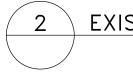




3 EXISTING PHOTOS - CORRIDOR 221







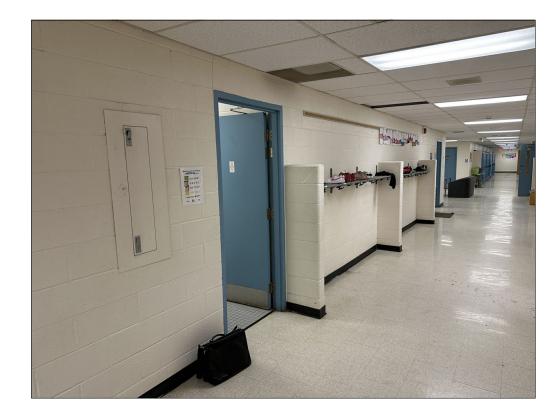
2 EXISTING BOYS WR 216





EXISTING GIRLS WR 217





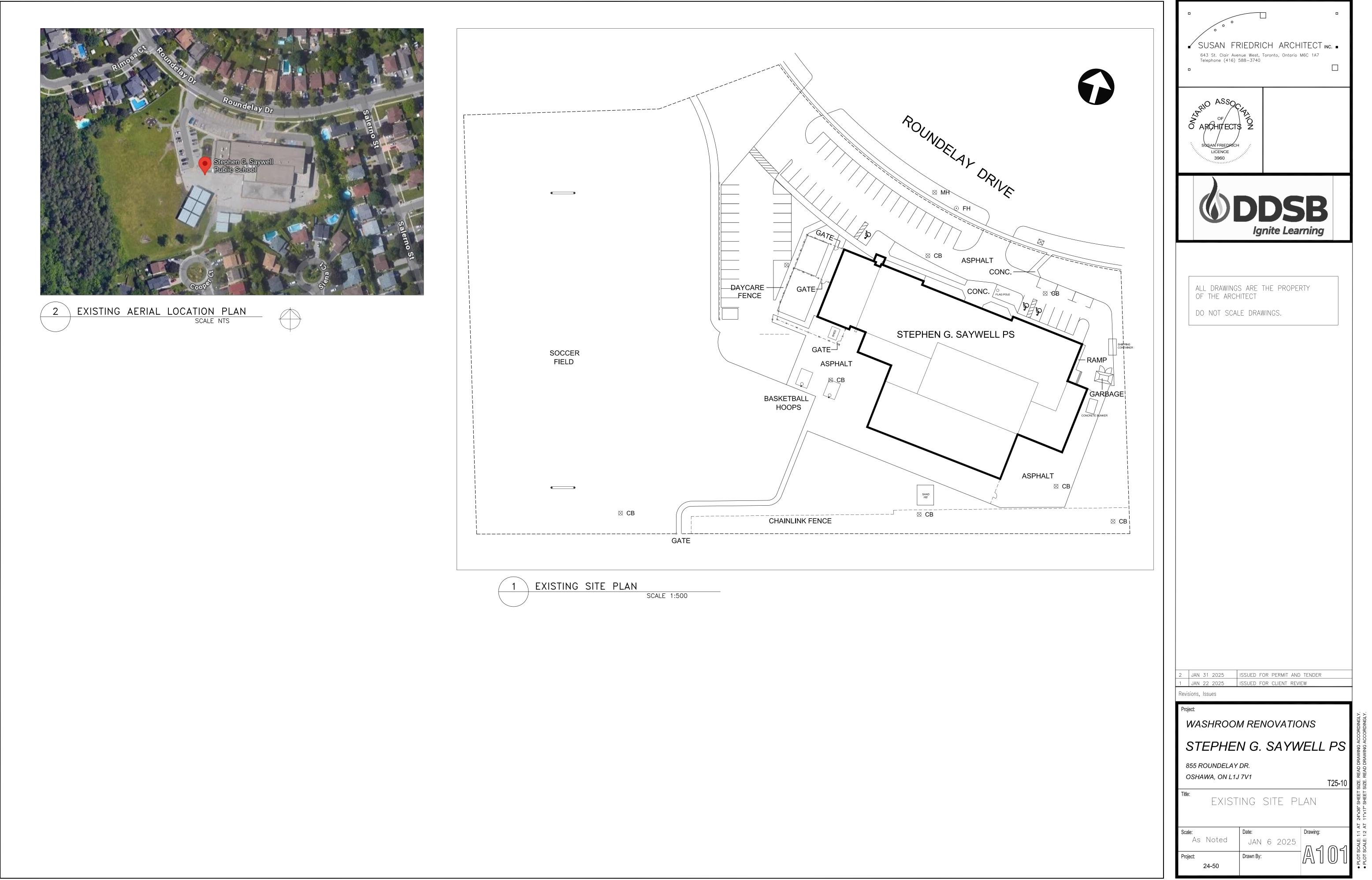




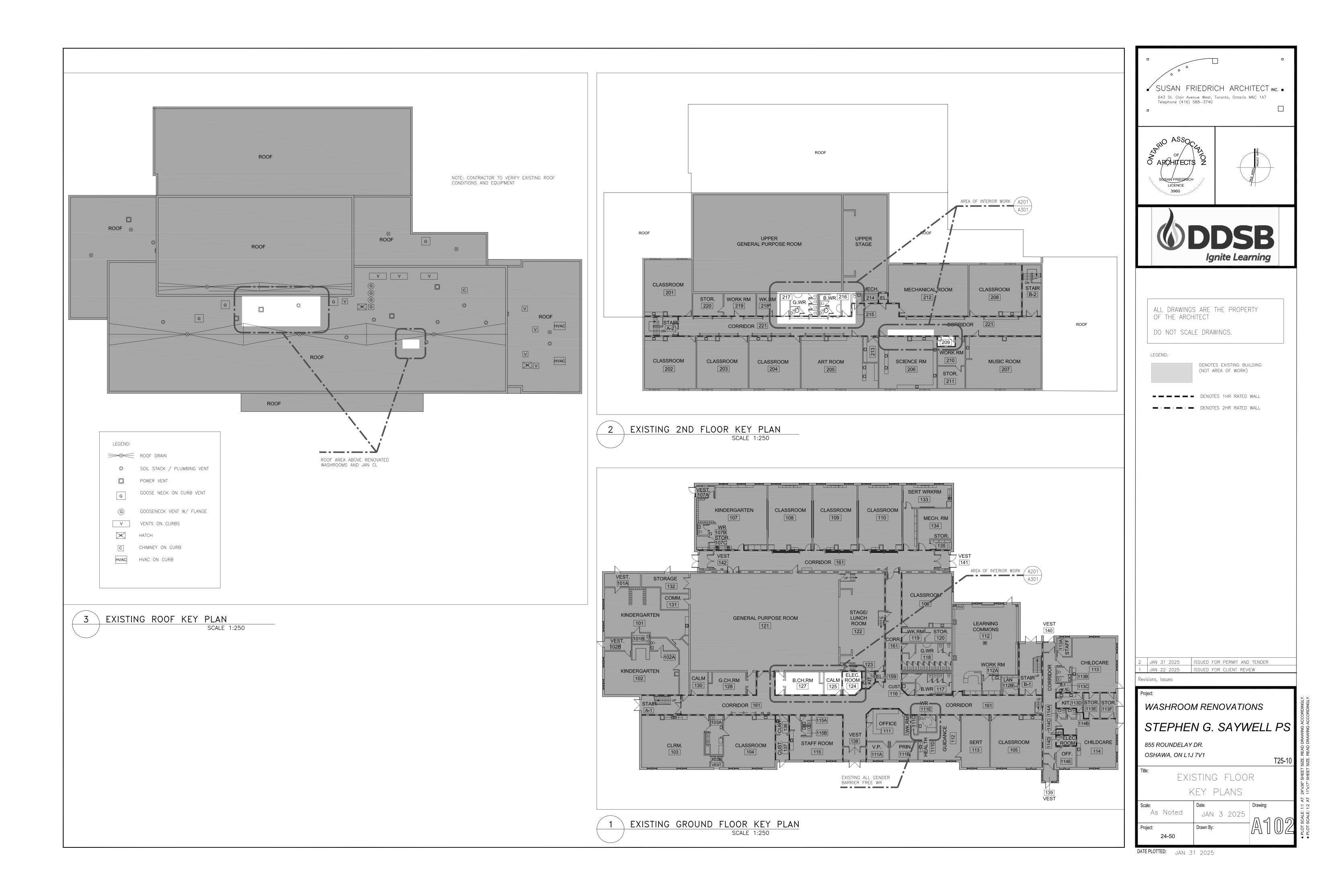




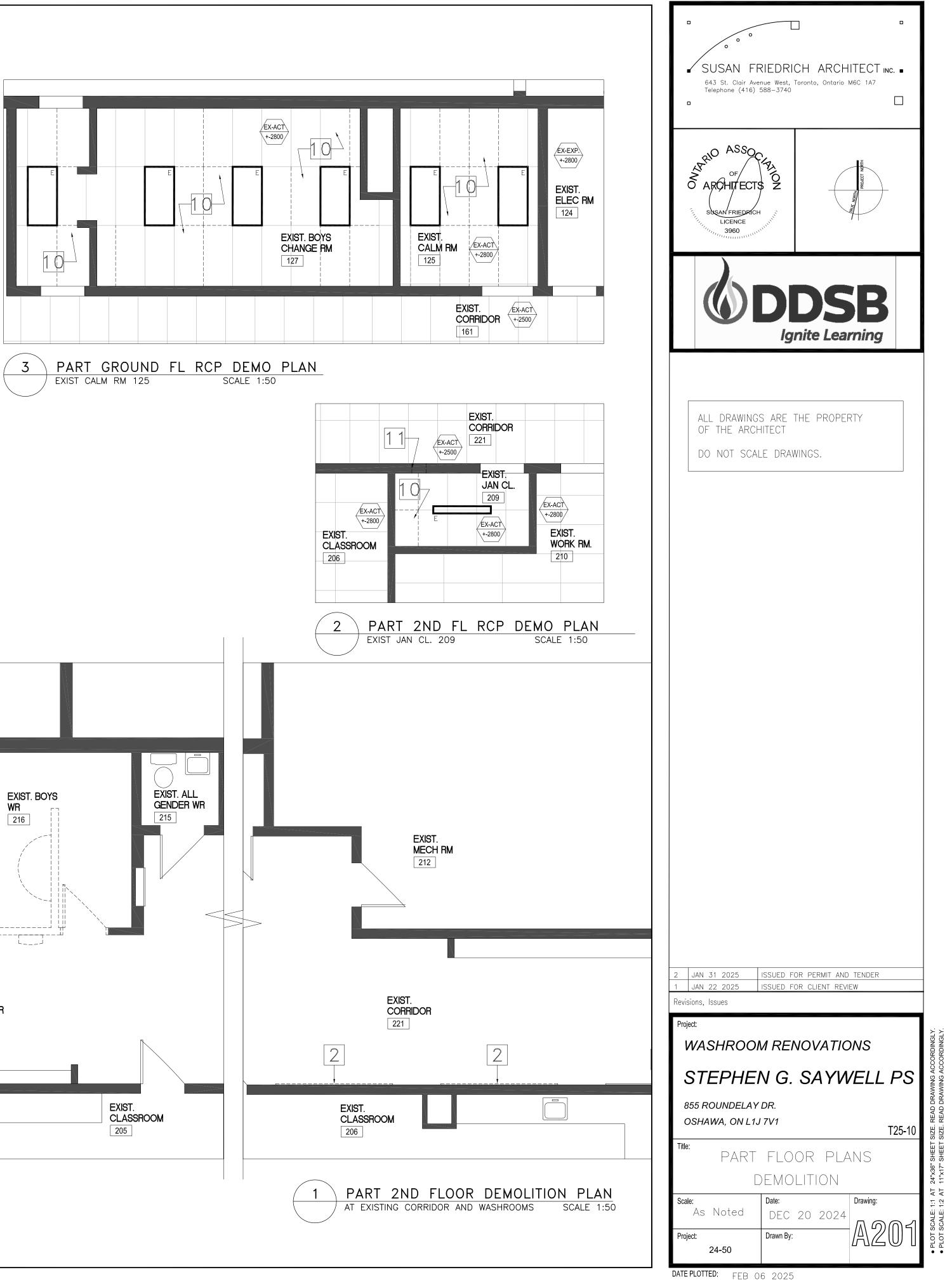
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	NOT SC	ALE DRAWINGS.	
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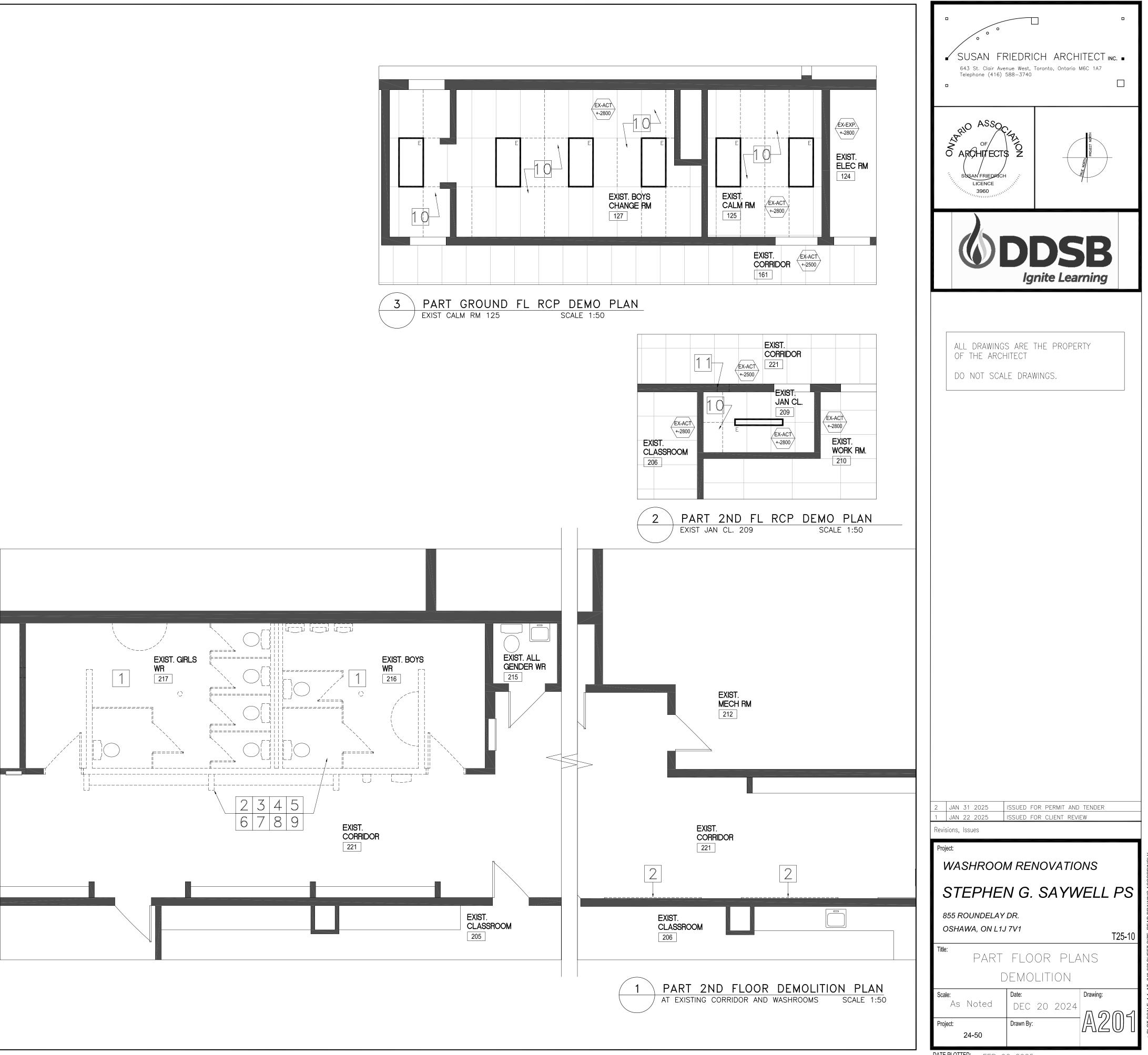


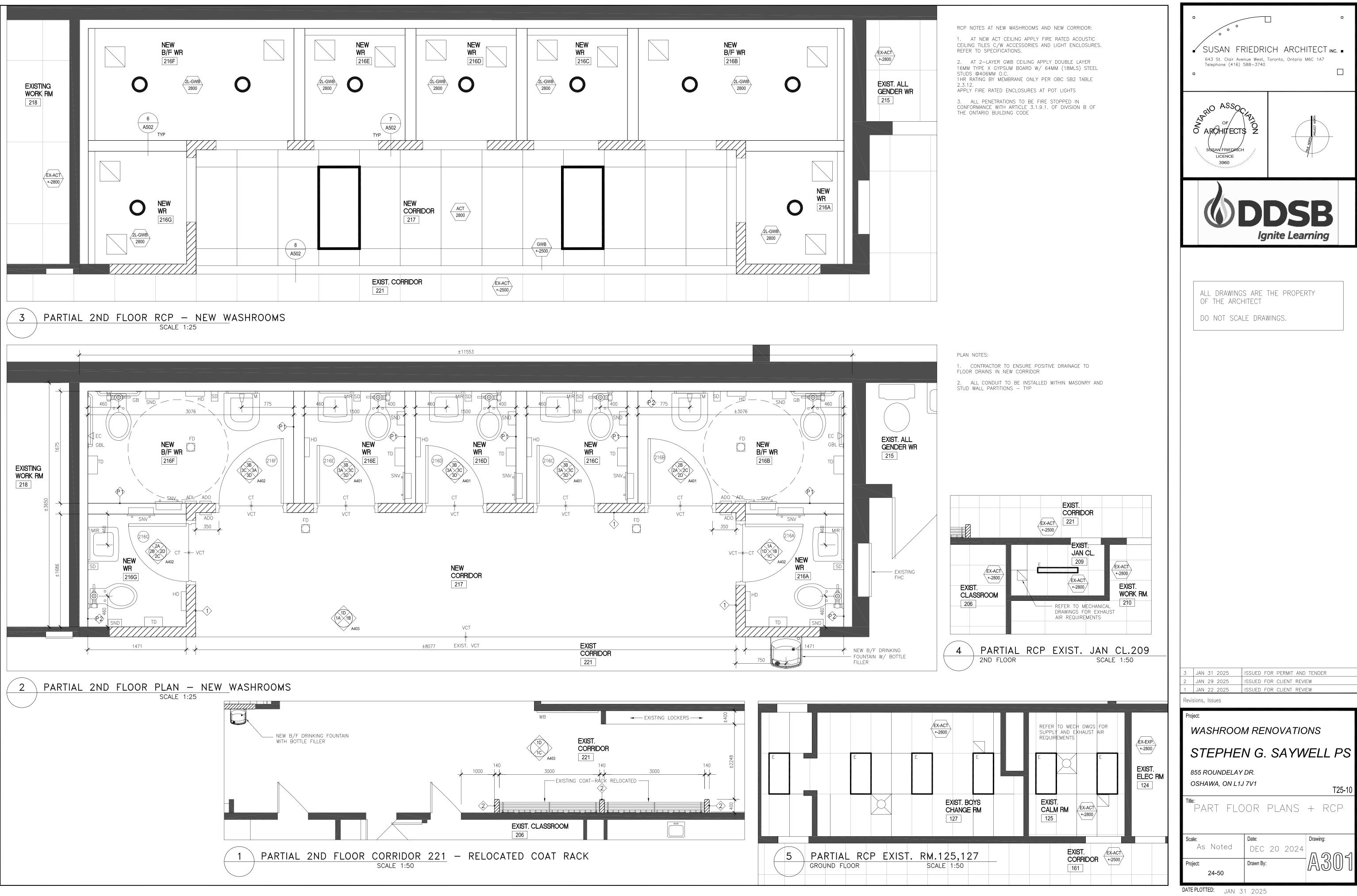
DATE PLOTTED: JAN 31 2025

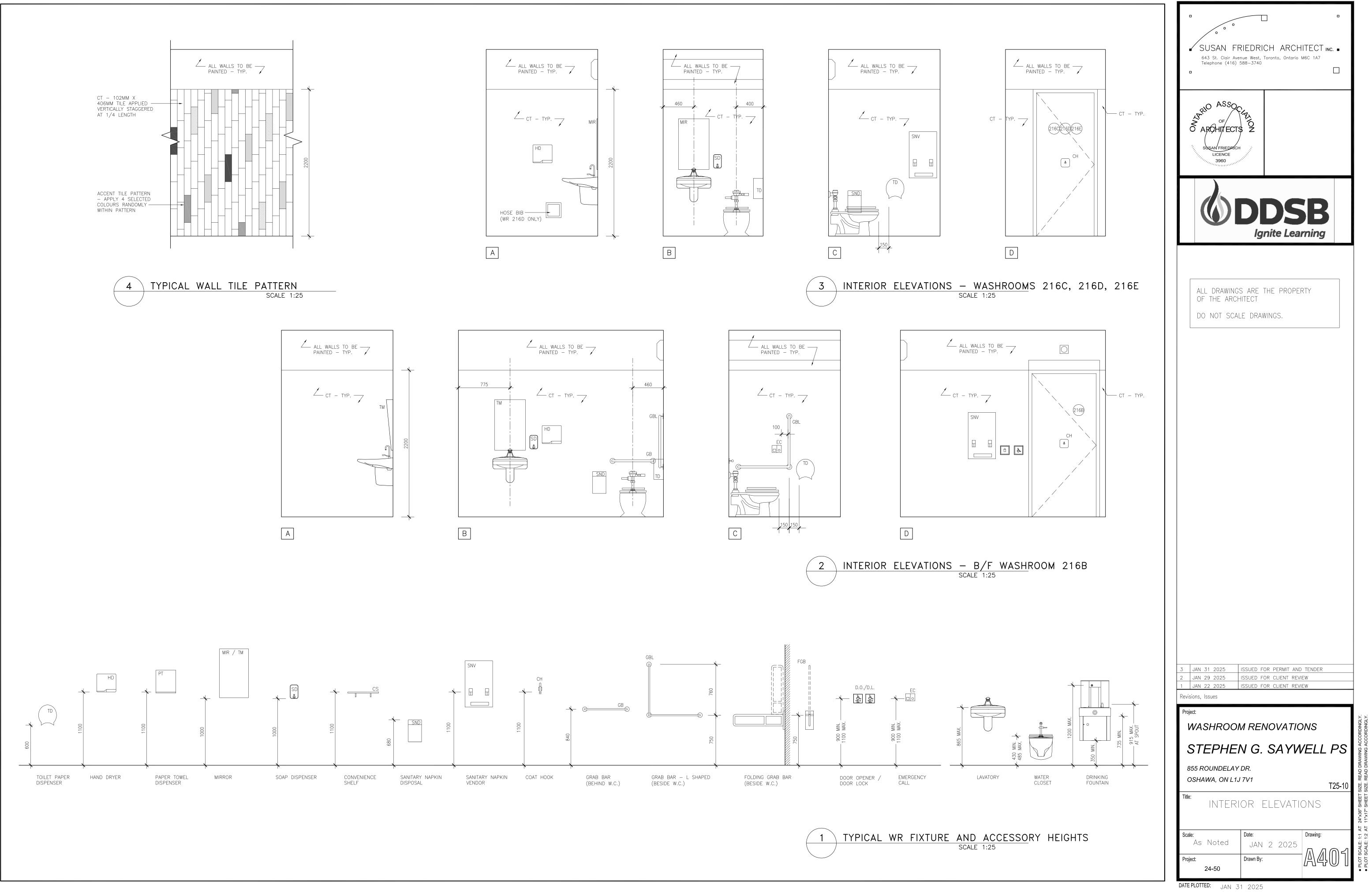


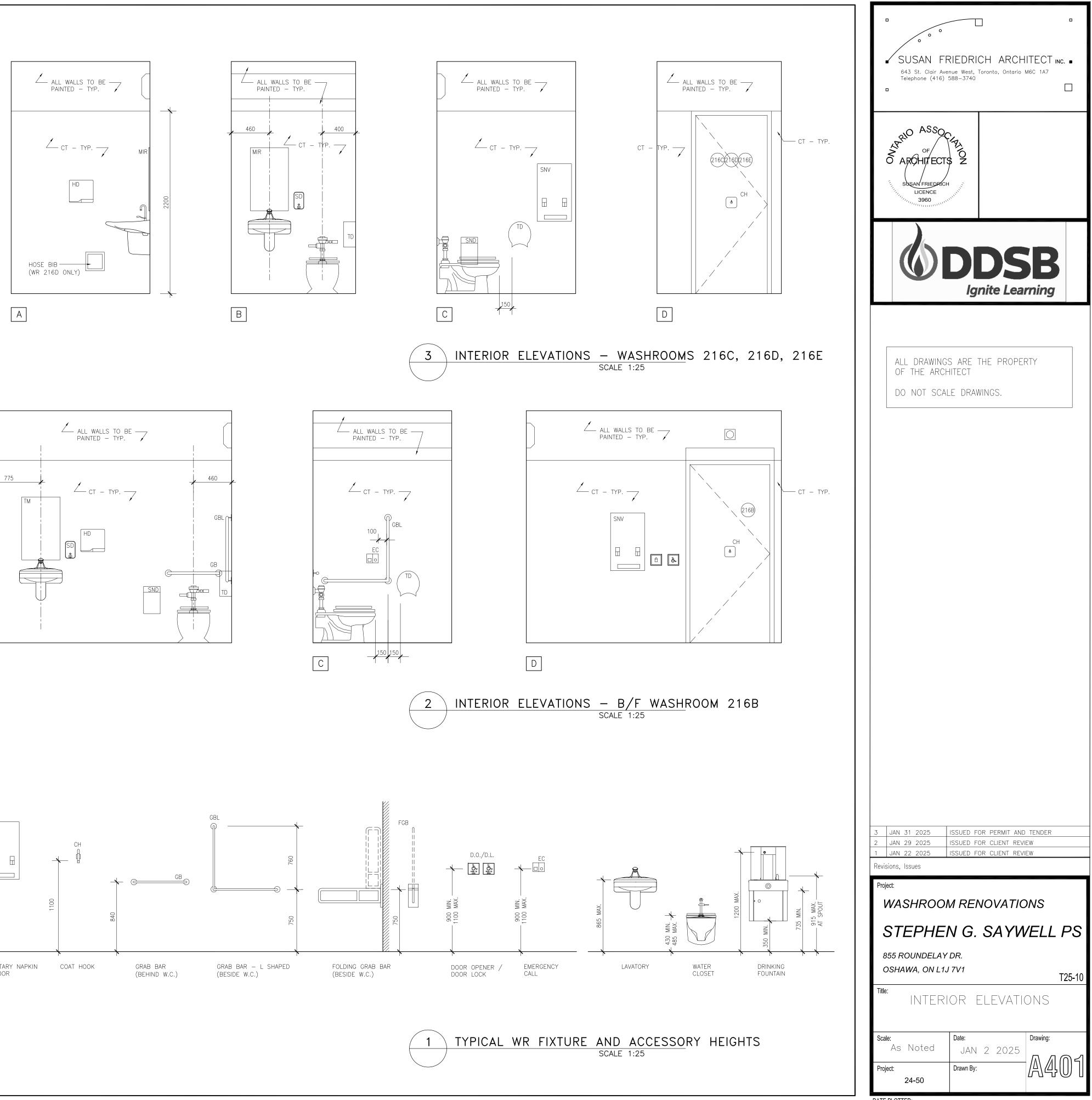
1	 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAW AT EXISTING WASHROOMS 218, 219 AND EXISTING WASHROOM VESTIBULES 217, 220: REMOVE FLOOR FINISHES, FIXTURES, TOILET PARTITIONS, WR ACCESSORIES, AND WALL PARTITIONS BETWEEN VESTIBULES AND WASHROOMS PREPARE EXISTING 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 LEVELED 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 MAK 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 AT EXISTING CORRIDOR 212: REMOVE MASONRY PARTITION, DOORS AND DOOR FRAMES BETWEEN THE CORRIDOR AND EXISTING WASHRO
	 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 LEVELED 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 MAK 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:
2	
	 NOTED ON PLAN. CAREFULLY REMOVE PARTIAL HEIGHT MASONRY WALLS AND SHELVING ADJACENT TO WASHROOMS, AS NOTE 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 MAK 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 SMOP SEALED WITH RATED MATERIAL TO MATCH EXISTING – TYPICAL
	WHERE EXISTING FLOOR/CEILING AT EXISTING CORRIDOR AFFECTED FOR THIS SCOPE OF WORK AND/OR TO I 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)
	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 BATTS, WITH ONE LAYER OF 13 MM PLYWOOD SHEATHING COVERED WITH SEALED AND TAPED 1 MIL POLYETHYLENE, CAULKED AND SEALED AROUND THE PERIMETER OF THE PARTITION AND COVERED BY ON 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 UN 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 INSTALLATIC OF NEW WORK
	REMOVE EXISTING ACT CEILING AS REQUIRED TO SUIT NEW M&E SERVICES. RESTORE, PATCH AND MAKE GO DISTURBED AREAS TO MATCH EXISTING. PATCH AND MAKE GOOD EXISTING CORRIDOR WALL AT MECH DUCT REMOVALS. RESTORE INTEGRITY OF FIRE WALL TO MATCH EXISTING.
	<u>RETE CUTTING AND CORING:</u> RIOR TO CUTTING OR CORING ANY CONCRETE SLAB OR ON GRADE, OR ANY CONCRETE BEAM, INVESTIGATE B
T E	ELEMETRICALLY SCANNING THE ELEMENT FOR PRESENCE OF EMBEDDED SERVICES (PIPING, CABLING, CONDUIT TC.), AND FOR LOCATIONS OF REINFORCING STEEL IN CONCRETE SLABS AND BEAMS.
2. A	 CCEPTABLE 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 CANNING. THE TERM X-RAYS INCLUDE GAMMA RAY METHODS, AND PROCEDURES THAT USE ELECTRICALLY GENERATED X-RAYS.
I. II. III.	c) WHERE X-RAYS EMPLOYED: PROVIDE OWNER MINIMUM 5 WORKING DAYS ADVANCE NOTICE OF SCANNING TIME IN ORDER TO PROVIDI SUFFICIENT ADVANCE NOTICE TO PERSONNEL THAT MAY BE AFFECTED BY THE X-RAY WORK. CONFORM TO OWNER'S RADIATION PROTECTION REQUIREMENTS PRIOR TO START OF ANY XRAY WORK. PROVIDE OWNER AND CONSULTANT WITH INSPECTION AGENCY'S WRITTEN REPORT, SUMMARIZING
IV. V. VI.	STEEL IN CONCRETE SLABS WITH CONSULTANT'S PRIOR AUTHORIZATION.

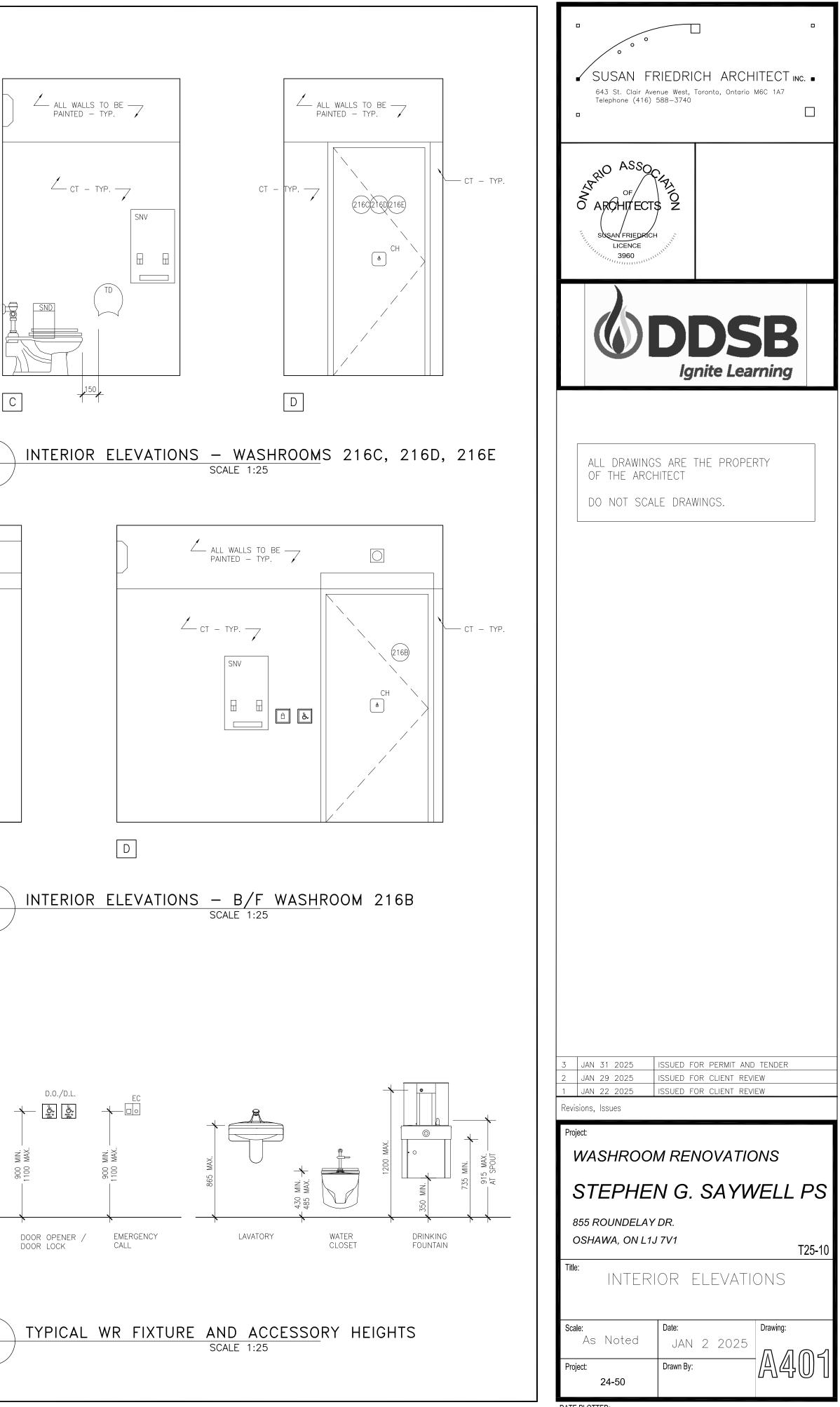


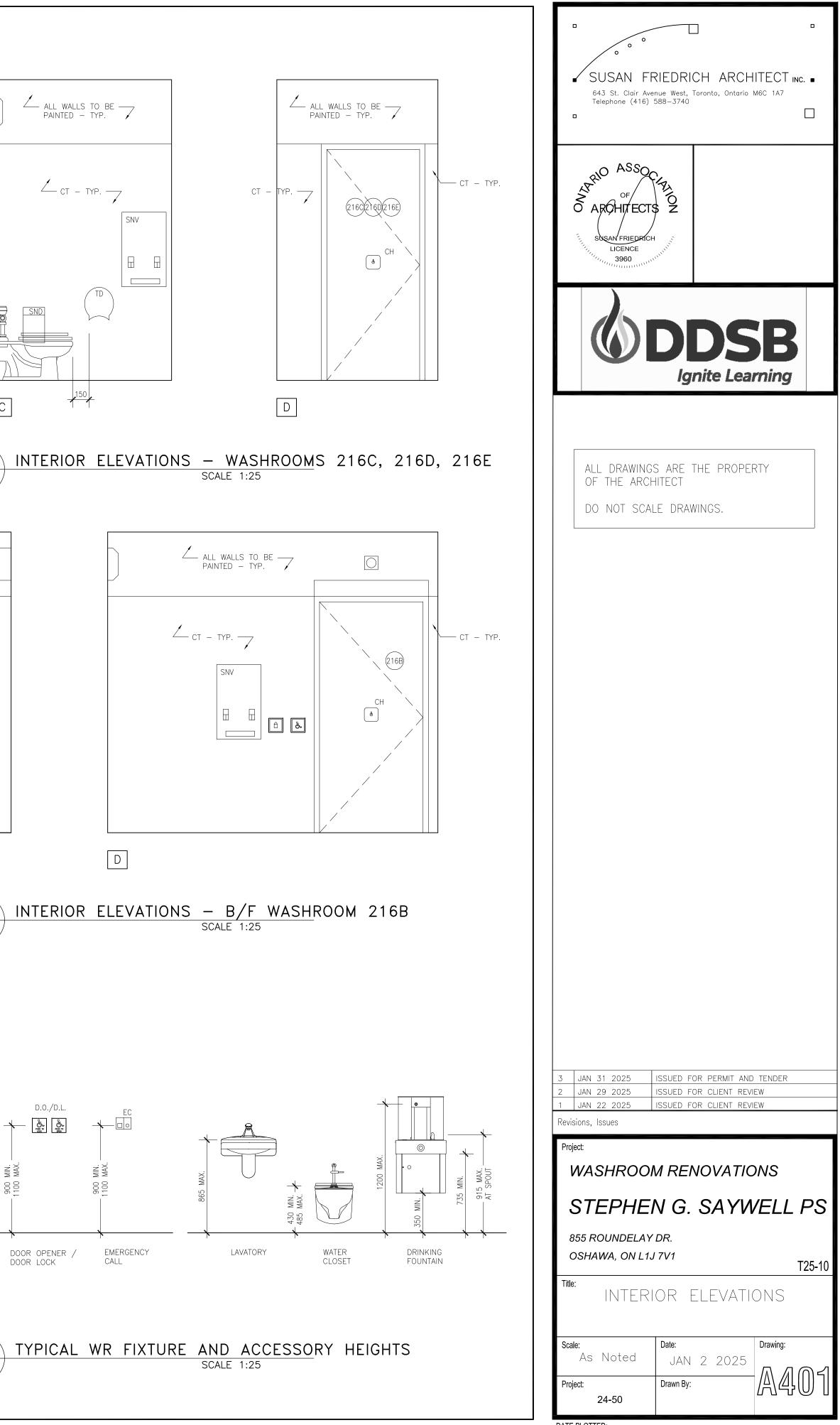


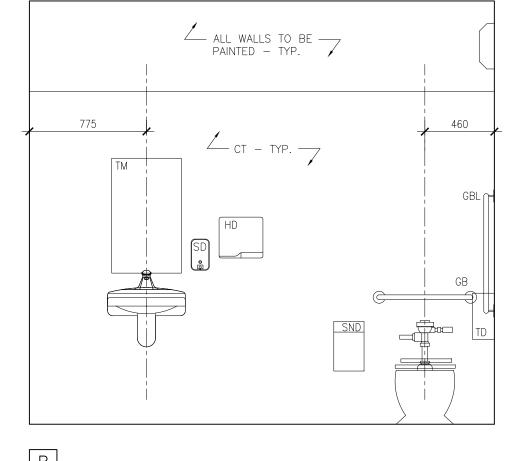


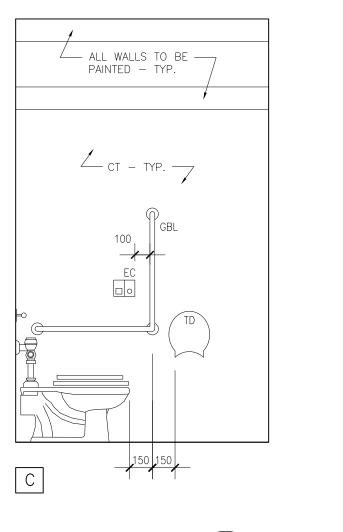


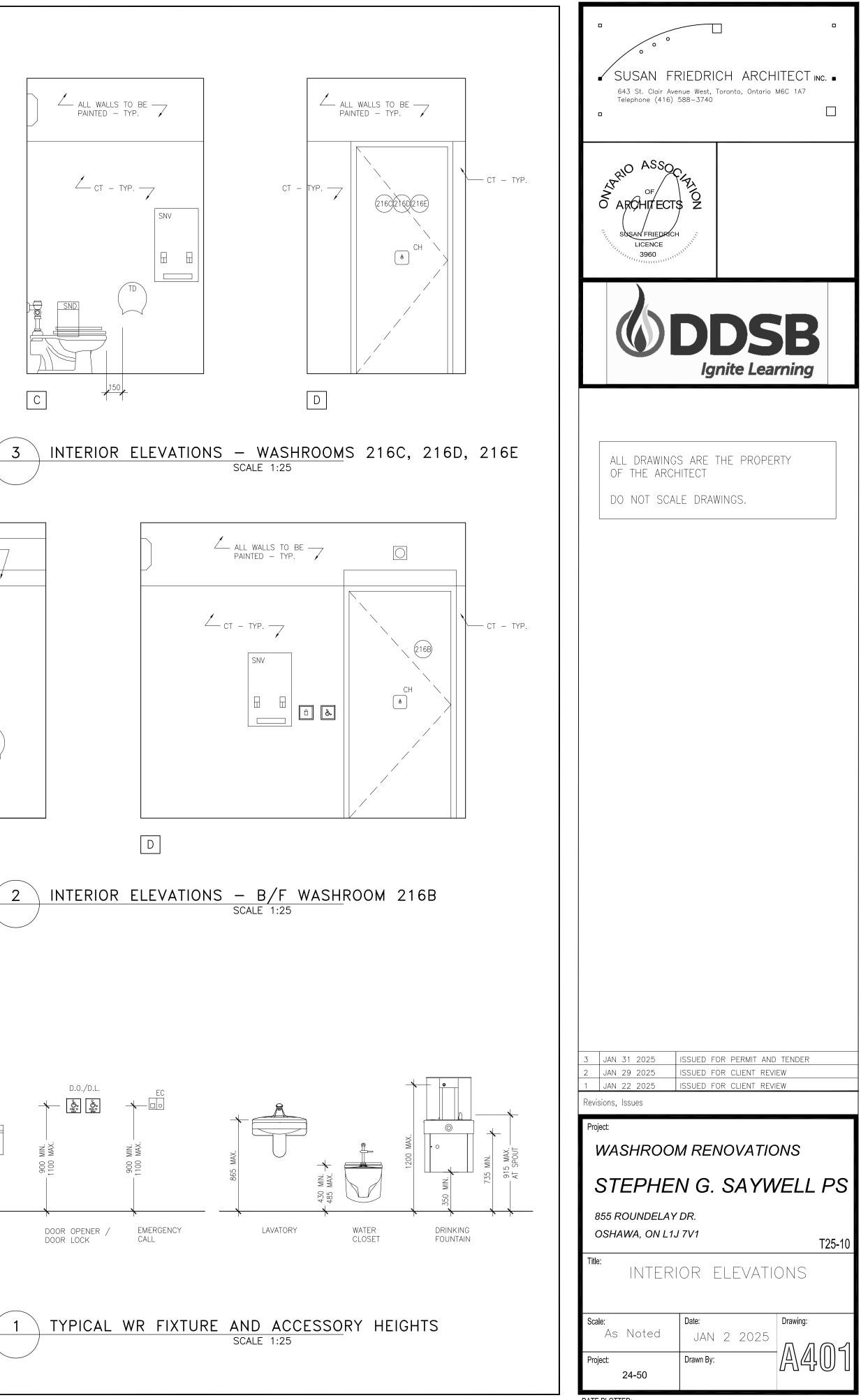


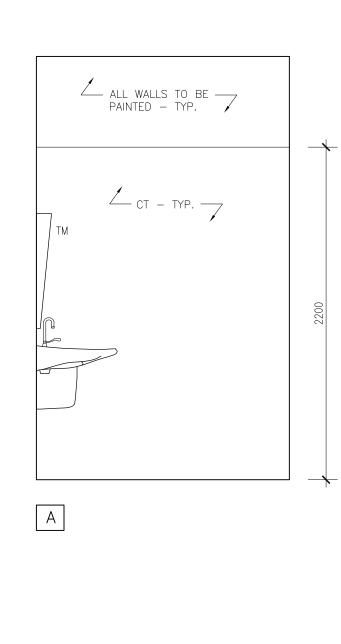


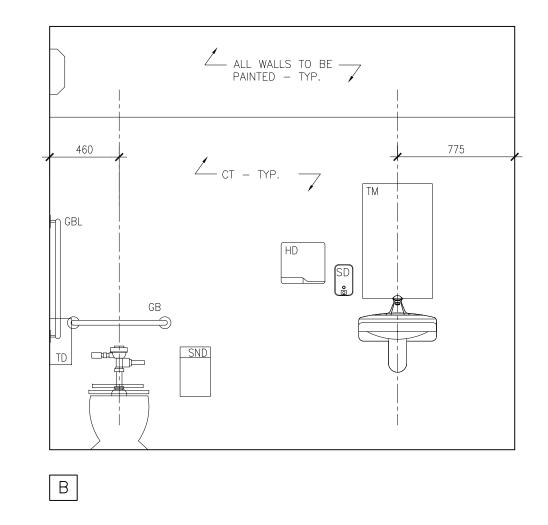


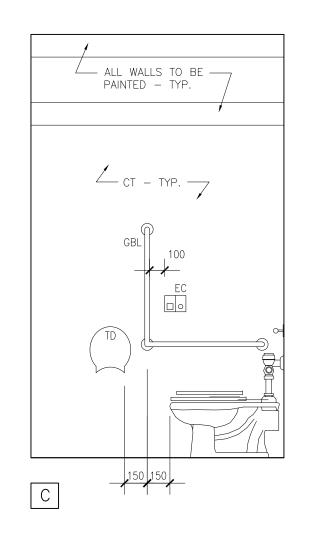


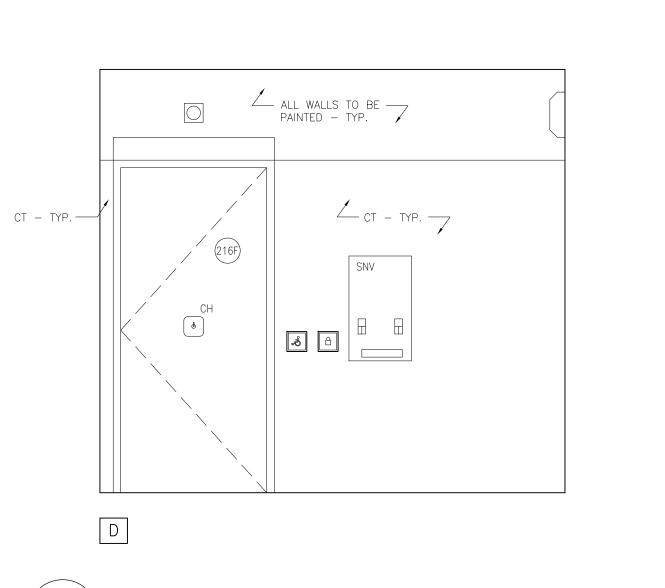


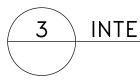


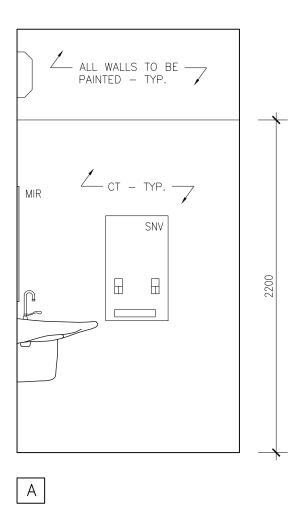


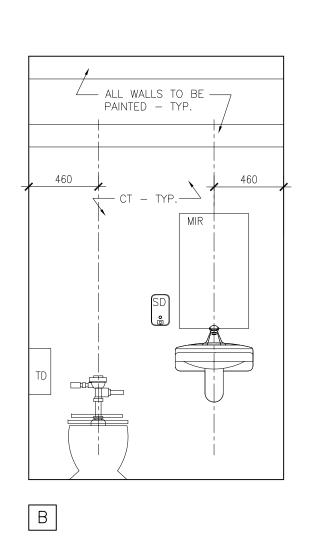


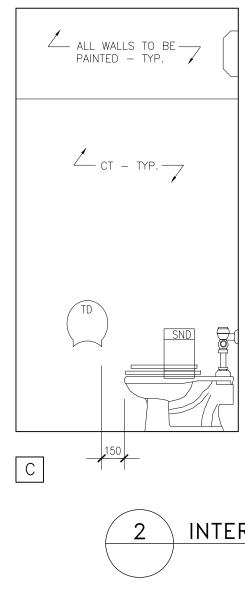


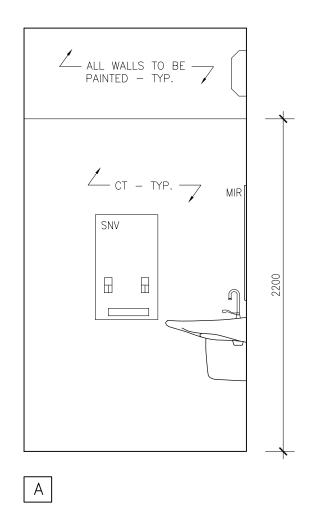


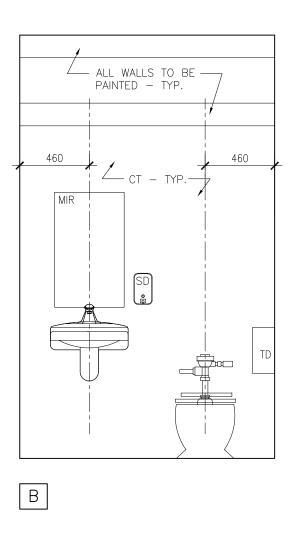


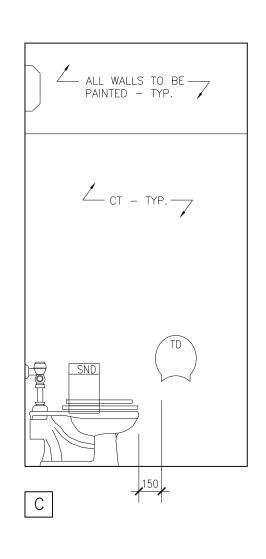






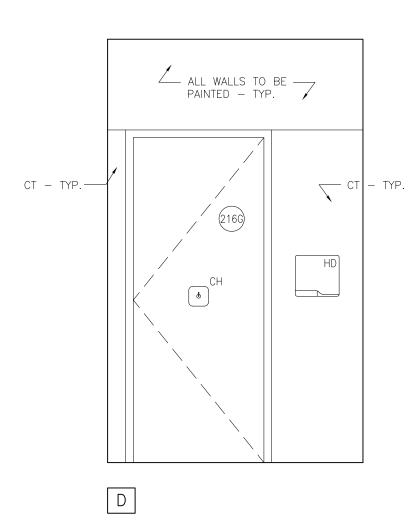




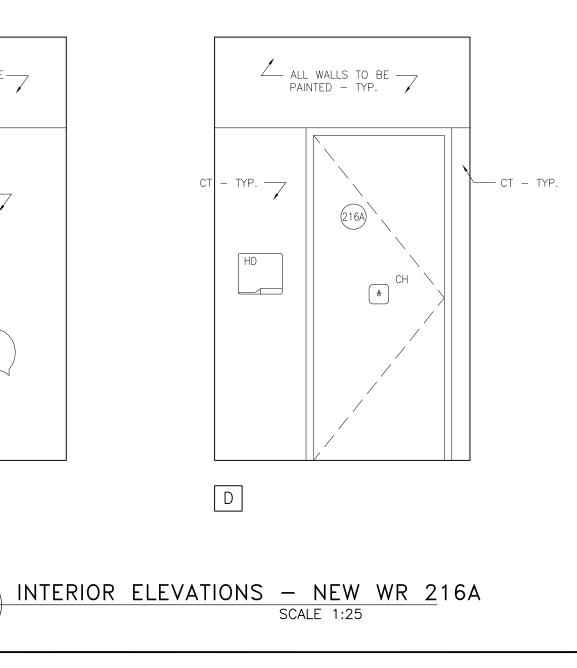


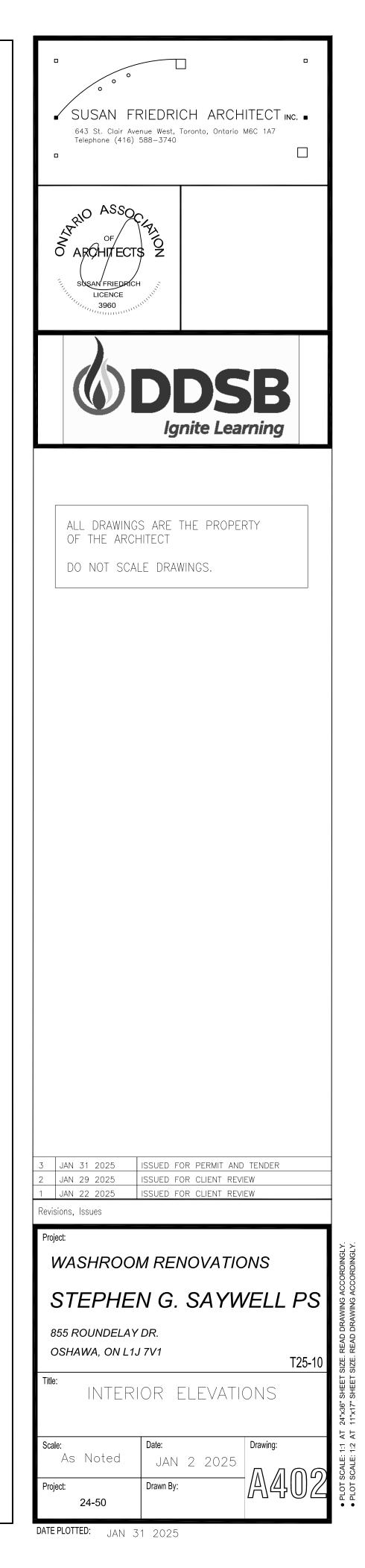
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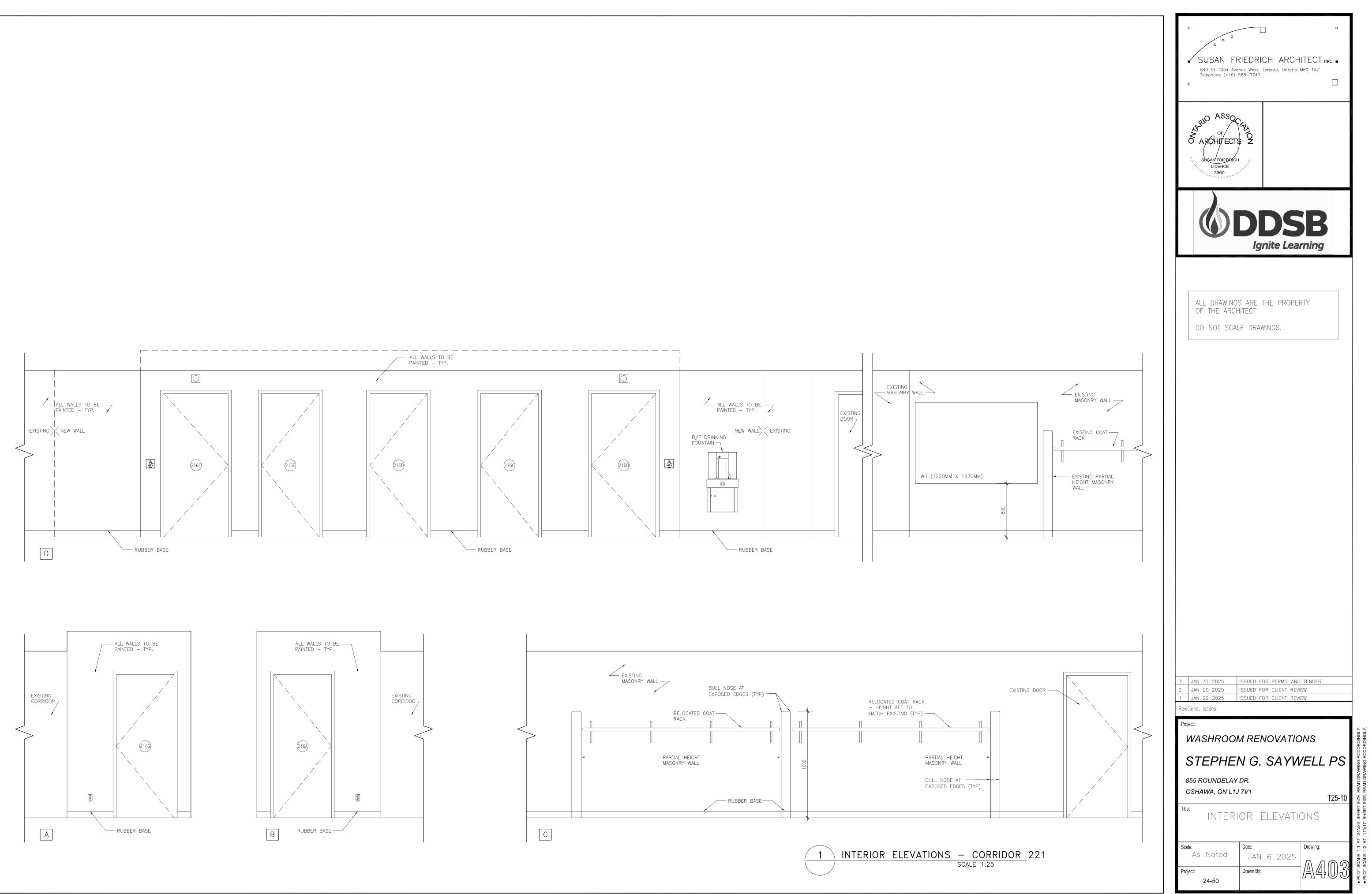
INTERIOR ELEVATIONS - NEW B/F WR 216F



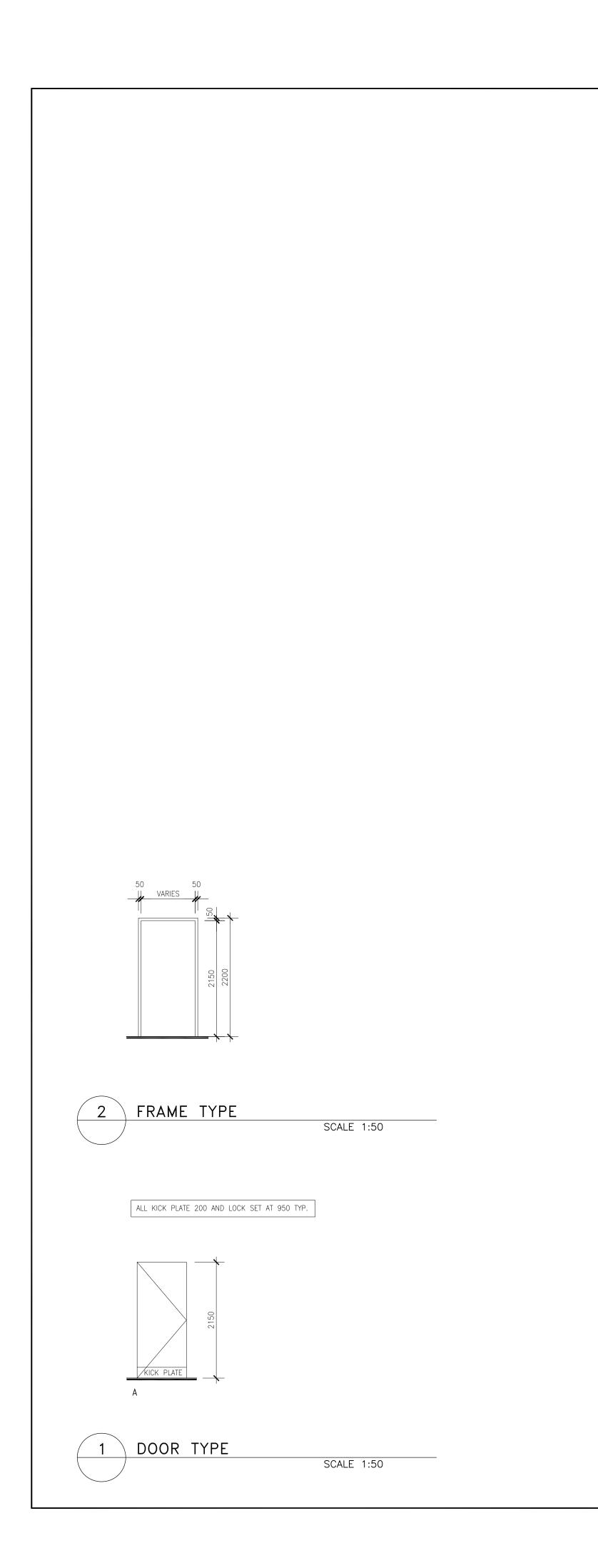
INTERIOR ELEVATIONS – NEW WR 216G SCALE 1:25







DATE PLOTTED: JAN 31 2025



ADDER ADDER	VING ROOM	T-BAR/ACT SUSP. CEILING GWB CLNG. PAINTED	CT . MAKE	1	CMU - PAINTED		EXIST. MAKE GOOD GWB-PAINTED	ED	MARE GOUD CERAMIC TILE	00D	S.	TED	DD		W.	MALL			LOO		TILE			ASE		UT BASE	BASE	ZO	REMARKS
ROOM ROOM		T-BAR/ACT SUSP. CEILING GWB CLNG. PAINTED	5 .			MAKE GOOD CERAMIC TILE	GOOD	ALL	AIC TILE	000		TED	DD TILE			ALL		DRING T.	ſŕ					- E		NT BASE	SE	ZO	
ROOM ROOM		T-BAR/ACT SUSP. CEILING GWB CLNG. PAINTED	EXISTING T-BAR/AC CLG. MAKE GOOD EXISTING GWB CLG.	GWB-PAINTED	CMU – PAINTED PT. EXIST. WALL	MAKE GOOD CERAMIC TILE	EXIST. MAKE GOOD SWB-PAINTED	U – PAINTED EXIST. WALL «F GOOD	AIC TILE	00D	NTED	AINTED	DD		ID VTED	ALL		RINC	r							LT B	SE S	ZO	
125 CALMIN		\bigcirc	\square					CMU PT. E MAKF	CERA	EXIST. MAKE GOOD	GWB-PAINTED	PT. EXIST	MAKE GOOD CERAMIC TILE	EXIST. MAKE GOOD	GWB-PAINTED CMU - PAINTED	PT. EXIST. W MAKE GOOD	EXIST. MAKE GOOD	TERRAZZO FLOORING TO MATCH EXIST.	VCT RESILIENT FLOOR	CERAMIC TILE	EXIST. CERAMIC 1 MAKE GOOD EXIST. RESILIENT	MARE GOOD MAKE GOOD	NONE RFSILIFNT BASF	CERAMIC TILE TO MATCH EXIST.	CERAMIC TILE TERRAZZO		EXIST. TILE BA MAKE GOOD	EXIST. TERRAZZO MAKE GOOD	PATCH & MAKE GOOD ALL DISTURBED A TO MATCH EXISTING (TYPICAL)
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216A NEW V	WR			\bigcirc		\bigcirc	\bigcirc		\bigcirc		(\bigcirc	\bigcirc	С) (\supset			\bigcirc			\supset						CERAMIC WALL TILE TO 2200MM AFF
216B NEW E	B/F WR			\bigcirc		\bigcirc	\bigcirc		\bigcirc		\bigcirc		\bigcirc	(\supset			\bigcirc			\supset						CERAMIC WALL TILE TO 2200MM AFF
216C NEW V	WR			\bigcirc		\bigcirc	\bigcirc		\bigcirc		(\bigcirc	(\bigcirc			\supset						CERAMIC WALL TILE TO 2200MM AFF
216D NEW V	WR			\bigcirc		\bigcirc	\bigcirc		\bigcirc		(\bigcirc	(\bigcirc			\supset						CERAMIC WALL TILE TO 2200MM AFF
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	DOOR SCHE	EDULE	L	EGEND:	ALUM CA FR/MP HM HCW PT	FIRE-R	ANODIZED	AL PANEL	IGU IM SCW ST TGL FRG	INS SOI STA TEM	SULATED G SULATED M LID CORE AIN- URET MPERED G E-RATED	WOOD HANE LASS	ALL D • AI DI • AI LE
DOOR NO.	GROUND FLOOR PLAN	SIZE	TYPE	FIRE RATING	MATEF DOOR	RIAL OF FRAME	FINISH	SELF CLOSER	LATCH	LOCK	PANIC	GLAZING	
216A	NEW WR 216A	864x2150x44	A	45 MIN	НМ	НМ	PT	\bigcirc		\bigcirc			DOOR SWEEP, KIG
216B	NEW B/F WR 212B	965x2150x44	A	45 MIN	НМ	НМ	PT	\bigcirc		\bigcirc			AUTO DOOR OPEF DOOR SWEEP, KIC
216C	NEW WR 216C	864x2150x44	A	45 MIN	НМ	НМ	PT	\bigcirc		\bigcirc			DOOR SWEEP, KIG
216D	NEW WR 216D	864x2150x44	A	45 MIN	НМ	НМ	PT	0		\bigcirc			DOOR SWEEP, KIG
216E	NEW WR 216E	864x2150x44	A	45 MIN	НМ	НМ	PT	0		\bigcirc			DOOR SWEEP, KIC
216F	NEW B/F WR 216F	965x2150x44	A	45 MIN	НМ	НМ	PT	0		0			AUTO DOOR OPEF DOOR SWEEP, KIC
216G	NEW WR 216G	864x2150x44	A	45 MIN	НМ	НМ	PT	0		0			DOOR SWEEP, KIG

- ALL DOOR CLOSERS TO BARRIER FREE STANDARD
- ALL DOOR FRAMES SPECIFIED WITH ALUM. CLADDING ISOLATE DISSIMILAR METALS ALL FINGER GUARDS <u>NGP 2248A</u> TYPICAL. NO SUBSTITUTIONS LENGTH 50MM LESS THAN OPENING HEIGHT.

REMARKS

SWEEP, KICKPLATE

OOR OPERATOR, PRIVACY LOCK

SWEEP, KICKPLATE

SWEEP, KICKPLATE

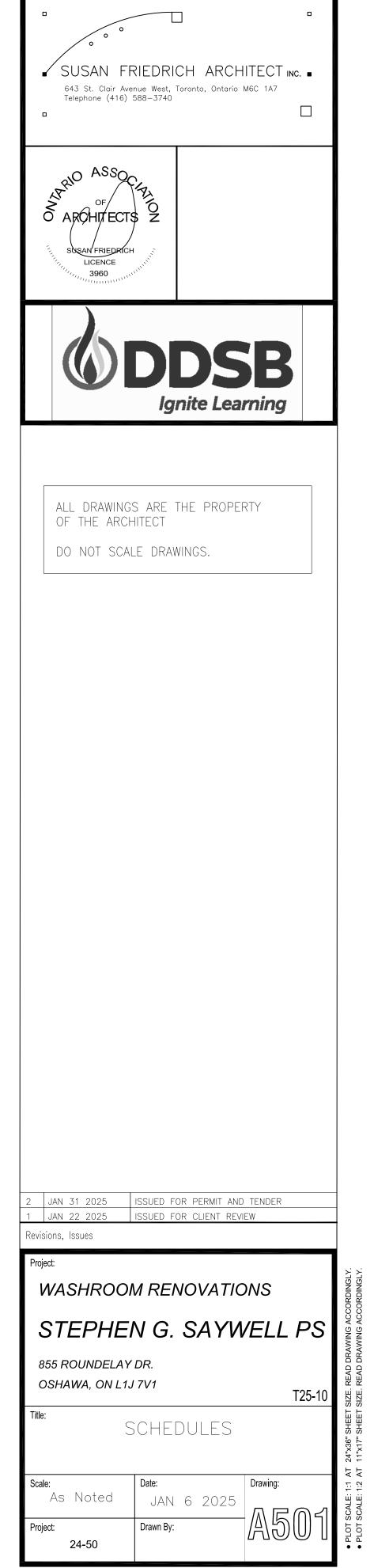
SWEEP, KICKPLATE

SWEEP, KICKPLATE

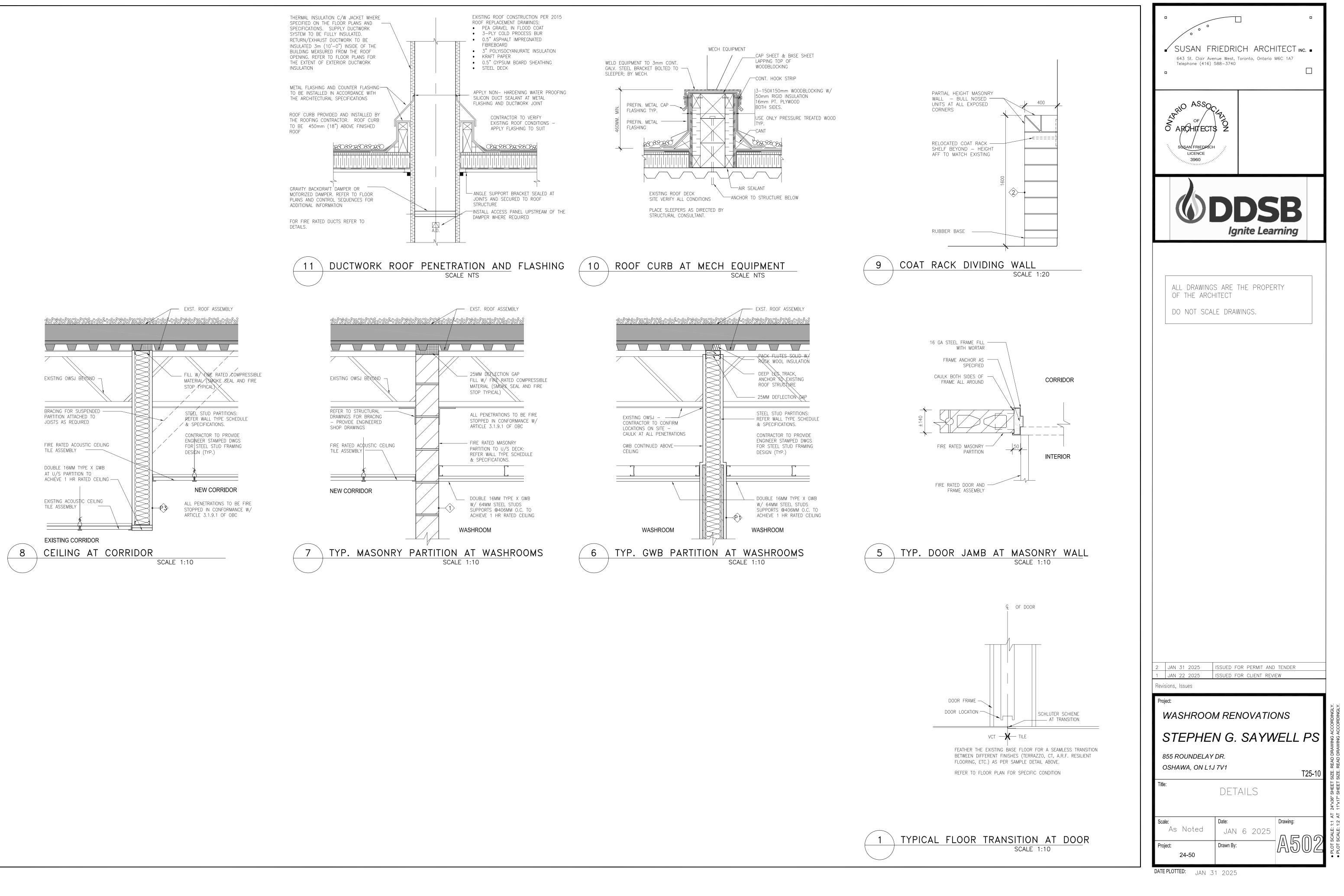
OOR OPERATOR, PRIVACY LOCK

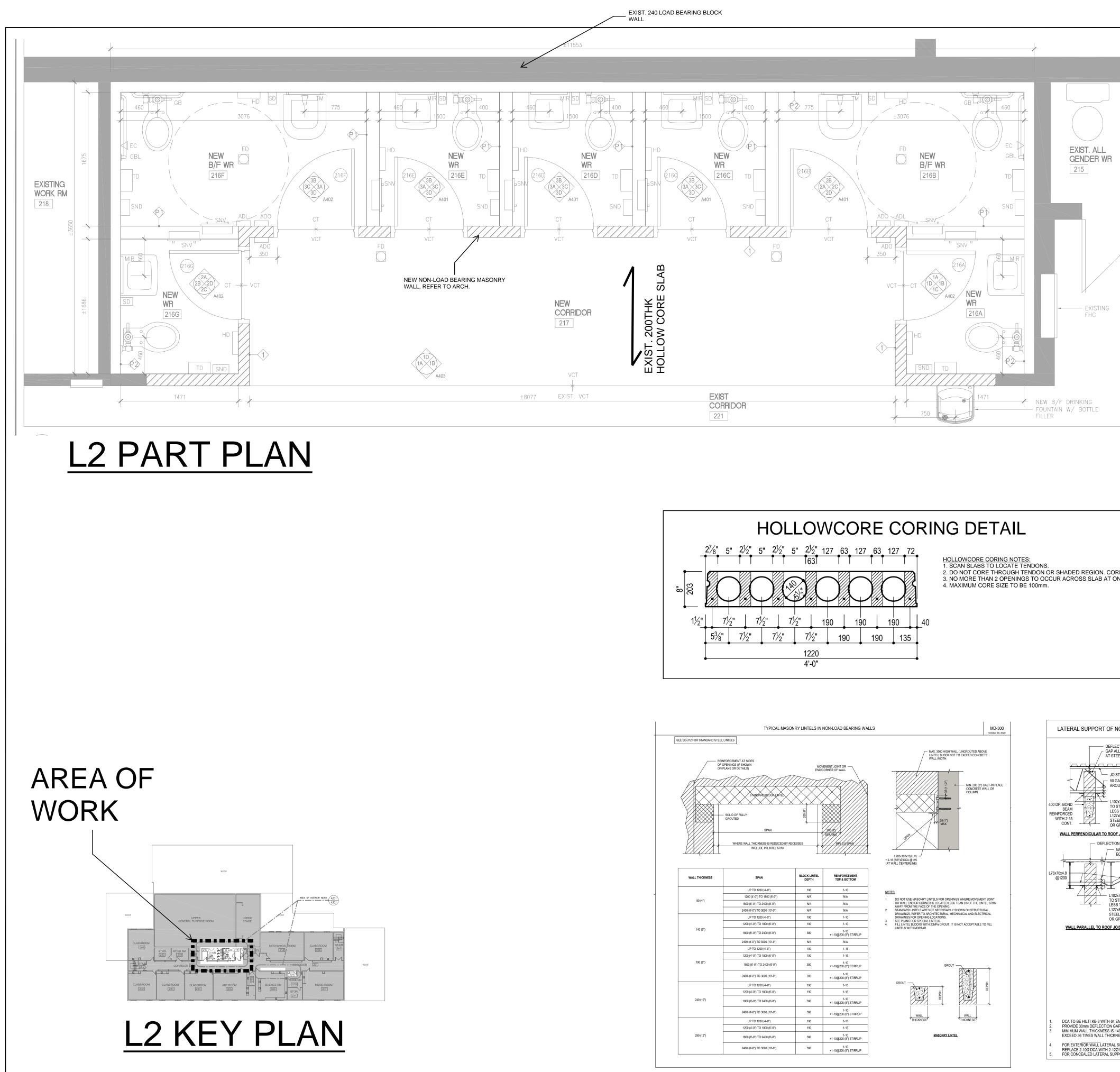
SWEEP, KICKPLATE

SWEEP, KICKPLATE



DATE PLOTTED: JAN 31 2025





	• SUSAN FRIEDRICH ARCHITECT INC. • 643 St. Clair Avenue West, Toronto, Ontario M6C 1A7 Telephone (416) 588–3740 • • • • • • • • • • • • • • • • • • •
	Ignite Learning
RE TO MISS TENDON AND BE LOCATED WITHIN HOLLOW REGIONS. INE PLANK.	
NON-BEARING INTERIOR MASONRY PARTITIONS PD-M-001 April 23, 2021 April 23, 2021 ICTION GAP L76x76x4.8 BRACE AT EACH BENT PLATE (INTERIOR) FOR EXTERIOR PLATE (INTERIOR) FOR EXTERIOR SEEL NON-LOAD BEARING WALL JUND STEEL USE L75x76x6.4 2275x64.4 (LLV) x 150 LG, WELD DEFLECTION GAP STEHA 50. Simm BENT PLATE x 150 LG. AT 1200, WELD TO STEEL ELTOST50R BEAMS VINGAP L76x76x4.8 BRACE AT EACH BENT FLOISTS OR BEAMS VALL IN LINE WITH ROOF/FLOOR JOISTS OR BEAMS NORAD BEARING WALL USE L75x76x6.4 VIN GAP L76x76x4.8 BRACE AT EACH BENT FUGITS OR BEAMS VALL IN LINE WITH ROOF/FLOOR JOISTS OR BEAMS NORAP L76x76x4.8 BRACE AT EACH BENT FUGITS OR BEAMS VALL IN LINE WITH ROOF/FLOOR JOISTS OR BEAMS NON-LOAD BEARING WALL USE L76x76x6.4 QUALTO DEFLECTION GAP USE L76x76x6.4 SUB GAULTO DEFLECTION GAP VINCH CODE BEARING WALL QUALTO DEFLECTION GAP USE L76x76x6.4 SUB GAULTO DEFLECTION GAP USE L76x76x6.4 SUB GAULTO DEFLECTION GAP VINCH CODE BEARING WALL QU	2 2025/01/31 ISSUED FOR PERMIT AND TENDER 1 JAN 2025 ISSUED FOR CLIENT REVIEW Revisions, Issues
EX76x6.4 (LLV) x 150 LG, WELD S THAN 50. DEFLECTION GAP S THAN 50. Xx98x6.4 (LLV) x 150 LG, WELD TO E FOR DEFLECTION GAP EQUAL GREATER THAN 50. STEL DISTS OR BEAMS WALL OFFSET FROM ROOF/FLOOR JOISTS OR BEAMS	Project: WASHROOM RENOVATIONS STEPHEN G. SAYWELL PS 855 ROUNDELAY DR. OSHAWA, ON L1J 7V1 Title:
EMBEDMENT. AP TYPICAL UIN. 140 FOR INTERIOR WALLS AND 190 FOR EXTERIOR WALLS. WALL HEIGHT SHALL NOT NESS FOR INTERIOR WALLS AND 30 TIMES WALL THICKNESS FOR EXTERIOR WALLS. SUPPORT INCREASE 150 LG. ANGLE/BENT PLATE SHOWN IN THE DETAILS TO 250 LG. AND Ø DCA + INCREASE ALL BENT PLATES TO 6mm THICK. *PORT REFER TO ARCH SPEC. AND DRAWINGS.	Scale: As NotedDate: 2025-02-05Drawing: S1Project: 24-50Drawn By: IBS1

DATE PLOTTED: JAN 21 2025

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.

Centoco #820STS 407 Toilet Seat, extra heavy duty, black finish, For elongated bowl, open front, Solid plastic, With cover, stainless steel self-sustaining 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. Centoco #1500STSCCSS.407 Toilet Seat, extra heavy duty, for elongated bowl, black finish, open front, solid plastic, less

cover, stainless steel self-sustaining 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.020/0062.000EC.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 #8894 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 PROWRAP #PW2000 Sanitary Covering vandal-resistant, flexible seamless moulded closed-cell PVC resin, formulated with anti-microbial 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 ledge, contoured back and side splash shield. Moen Commercial #8894 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 #PRODRAIN Open Grid Drain, cast brass one piece top, 17 GA. (1.5 mm) mm tubular 32 mm (1-1/4") tailpiece, Less overflow holes. McGuire #LFH170BV Faucet Supplies, Chrome plated finish polished brass, commercial duty 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 95-115°F (35-46°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"Ø compression fit inlets and outlets, ASSE Lead Free Certified. Alternates: Symmons, Powers, Leonard, RADA.

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: Zurn, J.R. Smith

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: Zurn, J.R. Smith

CO - CLEANOUTS / ACCESS COVERS - ADJUSTABLE CLEANOUTS

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 #SC8-1 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:

- PROVIDE BEFORE AND AFTER SCOPING/FLUSHING.
- PROVIDE CLEANOUTS AS REQUIRED BY CODE. SIZE OF CLEANOUTS TO BE SAME

SIZE AS SANITARY LINES.

- PROVIDE ALL TRENCHING, EXCAVATING AND BACKFILL FOR UNDERGROUND PLUMBING. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR IS BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
- 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
- PROVIDE ISOLATION VALVES AT ALL FIXTURES.
- INSULATE ALL NEW DOMESTIC HOT, COLD AND TEMPERED WATER PIPING WITH 1"(25mm) INSULATION. PROVIDE PVC JACKET OVER INSULATION IN EXPOSED AREAS. ALL NEW HOSE BIBBS TO BE COMPLETE WITH VACUUM BREAKERS.
- PROVIDE BALANCING VALVES AT START OF EACH BRANCH OF ALL HOT OR TEMPERED WATER RECIRCULATION LOOPS
- PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
- PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH CAN/ULC-S115
- COORDINATE EXACT LOCATION OF NEW FLOOR DRAINS WITH GENERAL CONTRACTOR TO SUIT FLOOR SLOPE.
- 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.
- 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.
- PERFORM DOMESTIC WATER QUALITY TEST AFTER ALL NEW PLUMBING WORK. SUBMIT CERTIFICATE OF ANALYSIS FROM CERTIFIED TESTING AGENCY TO CONSULTANT AND INCLUSION IN CLOSEOUT DOCUMENTATION.

PLUMBING SPECIFICATIONS:

- ALL PLUMBING PRODUCTS SHALL BE "LEAD-FREE" CERTIFIED TO ANSI/NSF 372. ALL NEW ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' HARD COPPER, CERTIFIED TO ASTM B88, WITH SOLDER JOINTS. EXCEPT DOMESTIC HOT WATER
- RECIRCULATION PIPING SHALL BE TYPE 'K' HARD COPPER. DRAINAGE SYSTEM (ABOVE GROUND): .1 2-1/2"(63mm) AND OVER - CAST IRON MJ PIPE WITH MJ FITTINGS AND
- STAINLESS STEEL CLAMPS .2 2"(50mm) AND UNDER - COPPER DWV PIPE WITH WROUGHT COPPER SOLDER FITTINGS OR IPEX XFR OR PVC DWV.
- DRAINAGE SYSTEM (UNDERGROUND):

JOINTS.

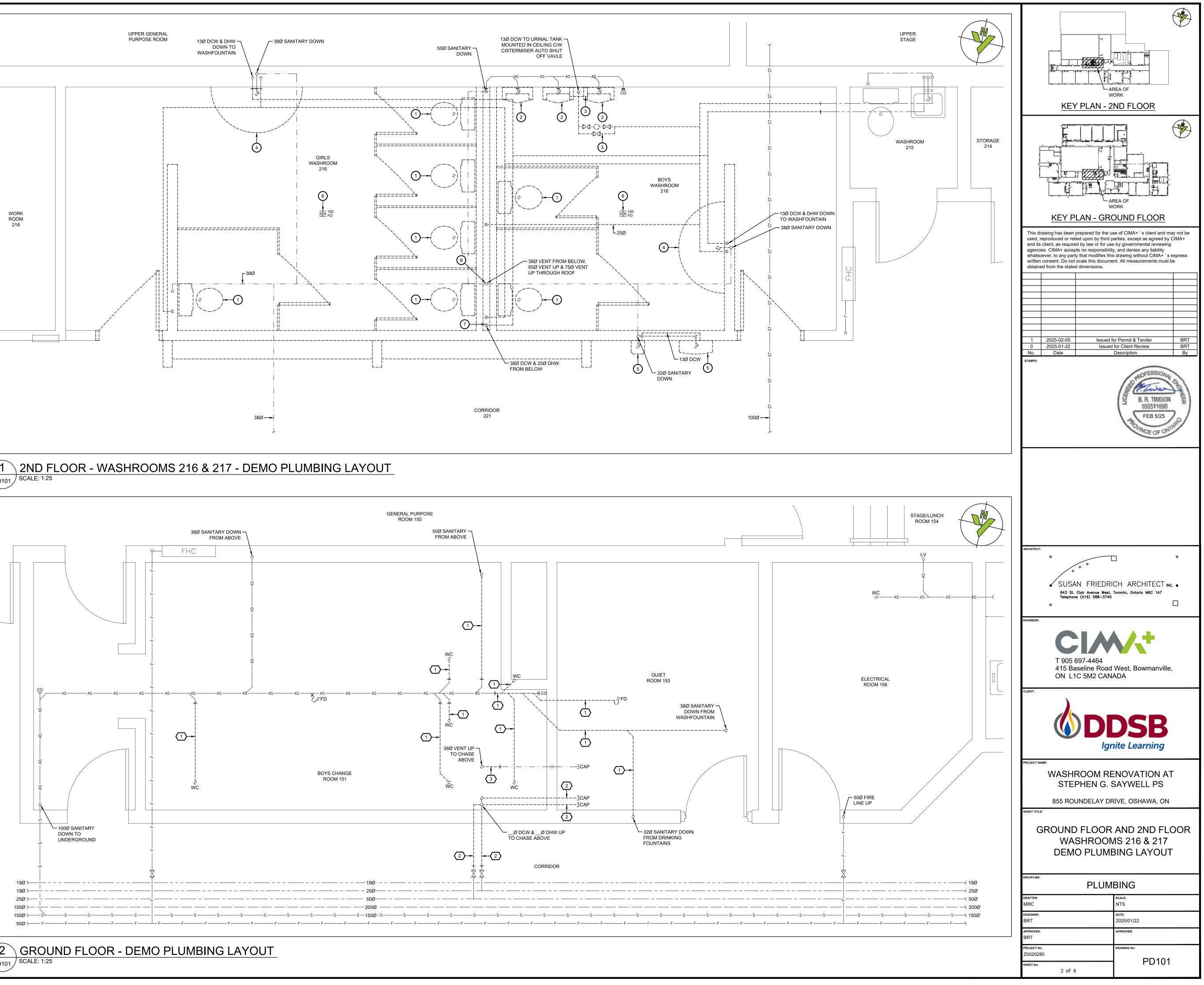
- PIPE UP TO AND INCLUDING 75mm(3") SHALL BE: ULC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CAN/CSA B181.2 WITH SOLVENT WELD JOINT. PIPE 75mm(3") UP TO AND INCLUDING 100mm(4") SHALL BE:
- .1 ULC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH PVC DWV FITTINGS TO CAN/CSA B181.2 WITH SOLVENT WELD JOINT, OR .2 ULC CERTIFIED PVC SDR 28/35 BDS PIPE TO CAN/CSA B182.1 COMPLETE WITH PVC BDS FITTINGS TO CAN/CSA B182.2 WITH SOLVENT WELD
- JOINTS. PIPE 125mm(6") AND UP SHALL BE: ULC CERTIFIED PVC SDR 28/35 SEWER PIPE TO CAN/CSA B182.2 COMPLETE WITH PVC FITTINGS TO CAN/CSA B182.2 WITH RING GASKET
- 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
- ALL NEW PIPE HANGERS SHALL BE: .1 EPOXY COATED CLEVIS TYPE WITH THREADED SUSPENSION RODS WHERE
- HANGER DIRECTLY TOUCHES PIPING ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH 2 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"Ø. INSULATION CAN WRAP AROUND HANGERS 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
- 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 H165. ALL VALVES SHALL BE LINE SIZE.
- 8. VALVE TYPE: .1 2" AND UNDER: BALL VALVE
- . 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.
- CIRCUIT BALANCING VALVES SHALL BE LEAD FREE. PROVIDE A CBV ON EACH DOMESTIC RECIRCULATION LOOP. CIRCUIT BALANCING VALVES SHALL BE IMI TA 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).
- 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.
- INSULATE DCW_DHW_DRW AND DTW PIPING INSULATE VENT LINES 1.5m BACK FROM ROOF.
- 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.
- 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.

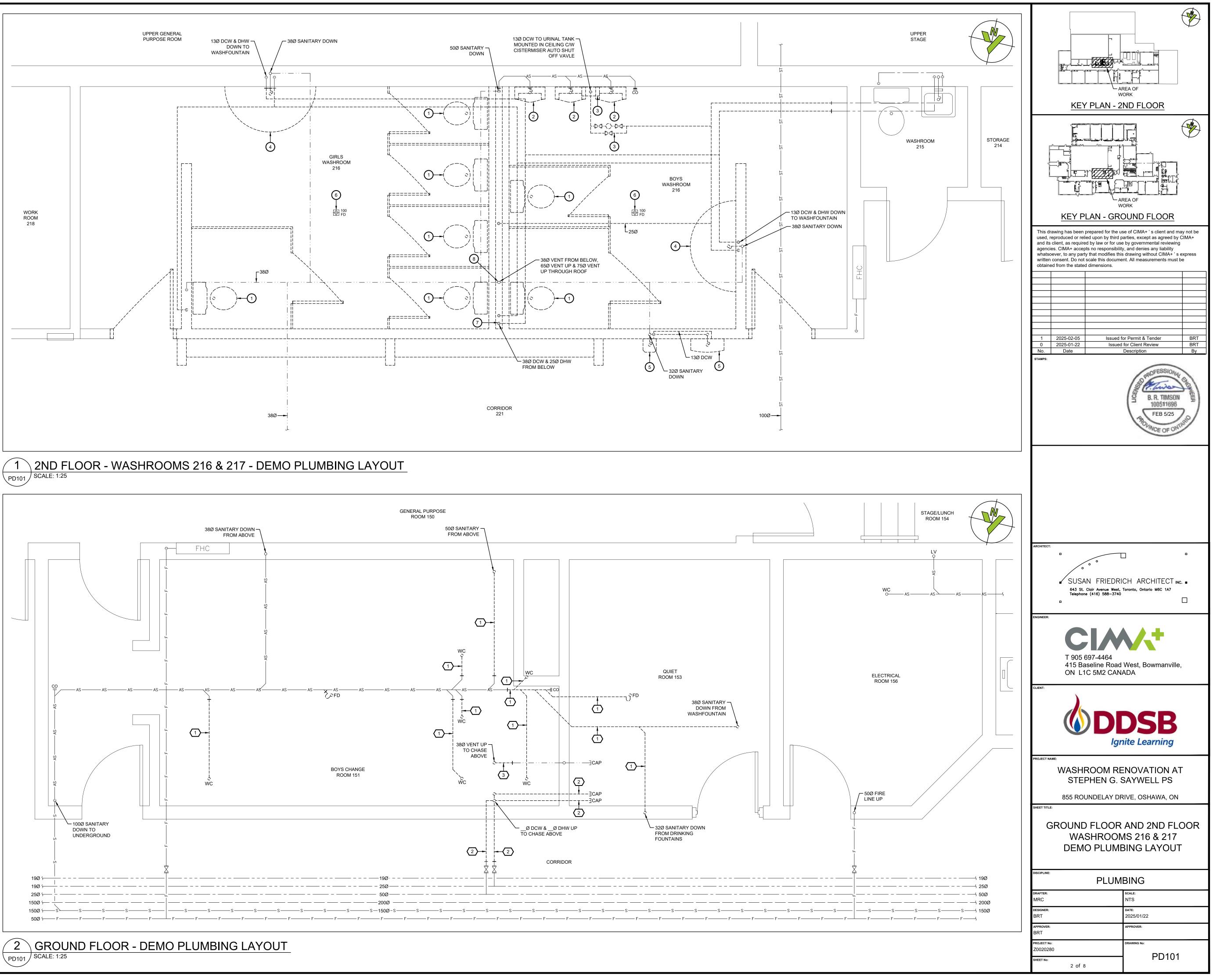
GENERAL NOTES:

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

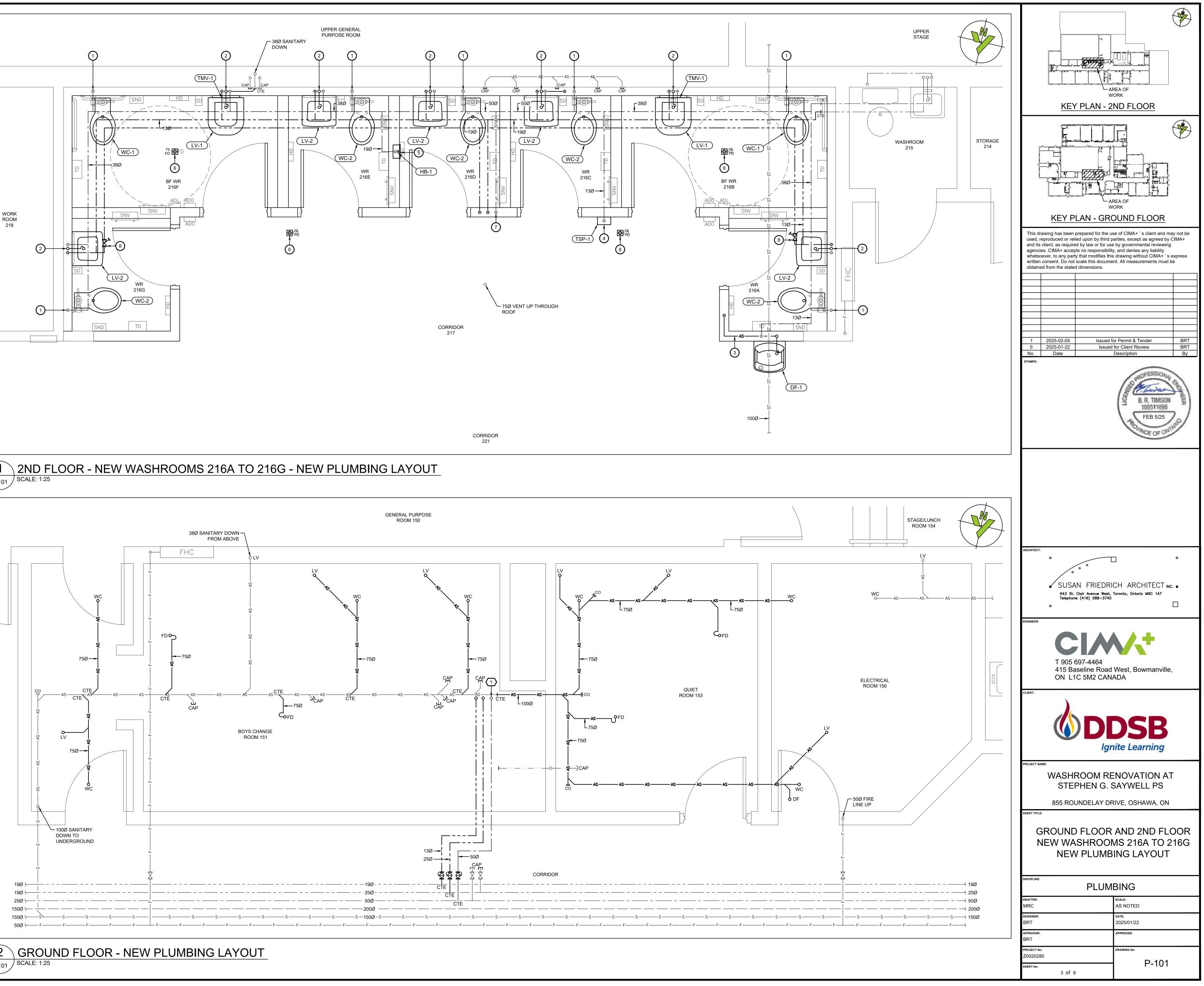
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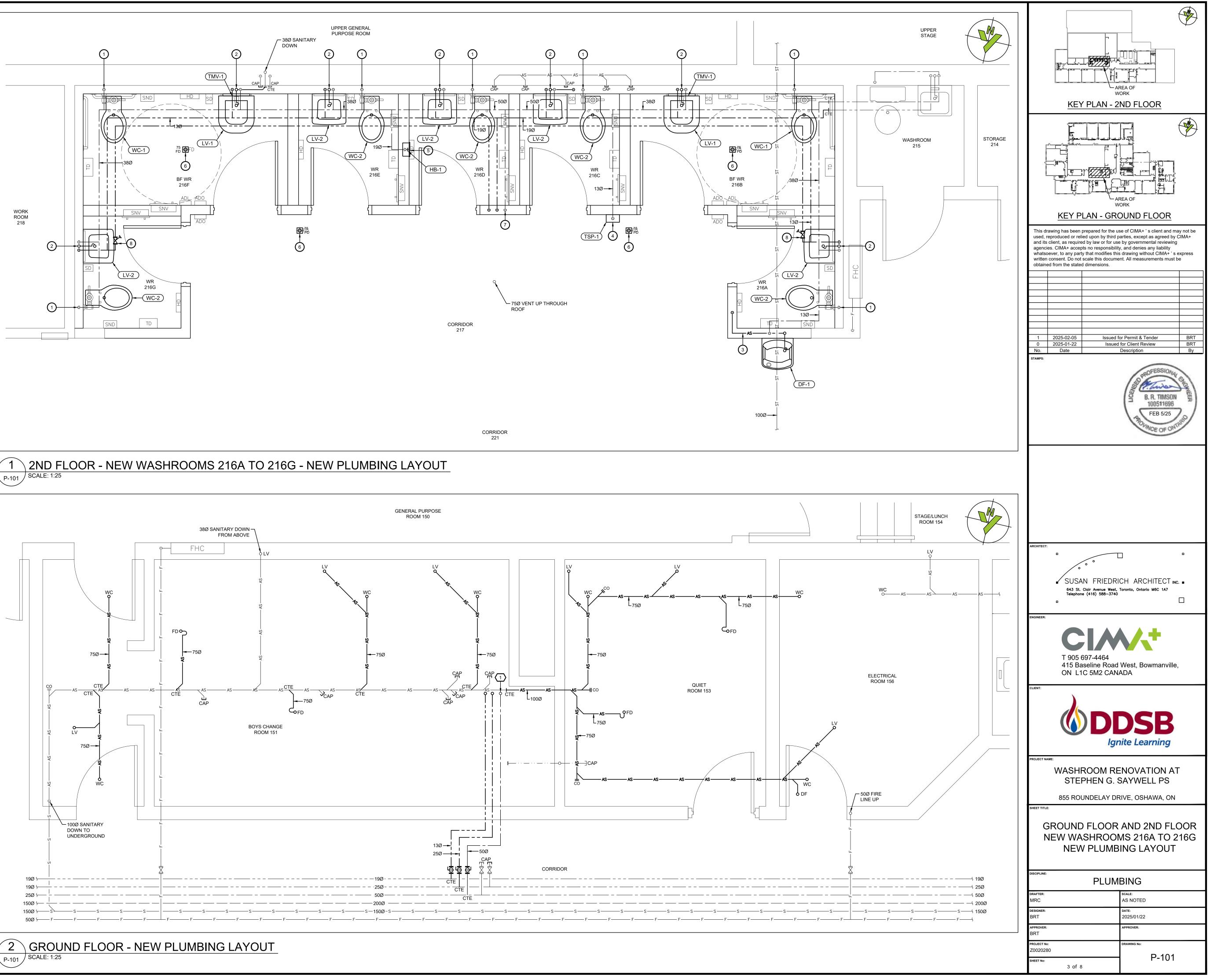
GE	NERAL DEMOLITION PLUMBING NOTES:	
1.	THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.	
2.	PRE-CONSTRUCTION PHOTOS: THE CONTRACTOR SHALL TAKE PHOTOS OF THE SITE, BUILDING, SERVICES AND FINISHES PRIOR 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.	SCOPE/CAMERA EXISTING UNDERGROUND SANITARY PIPING THROUGH WORK AREA TO CONFIRM CONDITION OF PIPE, ROUTING AND INVERTS. SUBMIT REPORT AND VIDEO ON USB.	
4.	SCAN FLOOR PRIOR TO FLOOR CUTS.	
5.	DISCONNECT AND REMOVE <u>ALL</u> REDUNDANT FIXTURES, PIPING AND OTHER REDUNDANT SERVICES THROUGHOUT AREA OF WORK.	
6.	REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND CAP.	
7.	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.	
8.	MAINTAIN VENT PIPING FOR REUSE WHERE POSSIBLE AND REMOVE ANY REDUNDANT.	
		WORK
	WORKING NOTES - 2ND FLOOR :	ROOM 218
	REMOVE EXISTING WATER CLOSET AND ASSOCIATED DCW AND SAN PIPING.	
	REMOVE EXISTING URINAL AND CAP DCW & SAN SERVICES AT WALL.	
3	REMOVE EXISTING URINAL FLUSH TANK, SOLENOID VALVE AND ALL ASSOCIATED VALVES AND ACCESSORIES.	
	REMOVE EXISTING WASHFOUNTAIN C/W ALL VALVES AND ACCESSORIES. REMOVE EXISTING DCW, DHW & SAN SERVICES EXCEPT WHERE BEING REUSED FOR NEW LAVATORY.	
5	REMOVE EXISTING DRINKING FOUNTAIN AND BOTTLE FILLER AND ASSOCIATED DCW & SANITARY SERVICES. TURN BOTTLE FILLER OVER TO DDSB. ALLOW FOR DELIVERY TO DDSB MAINTENANCE CENTRE LOCATED AT 710 BAYLY STREET EAST IN AJAX.	
6	REMOVE EXISTING FLOOR DRAIN AND SAN SERVICES.	
$ \bigcirc$	REMOVE EXISTING DCW & DHW SERVICES UP IN WALL AND IN CEILING SPACE.	
8	REMOVE EXISTING VENTING UP IN WALL FROM GROUND FLOOR BELOW. REMOVE ANY VENTING IN CEILING SPACE THAT CONFLICTS WITH NEW WALLS OR CEILINGS.	
	WORKING NOTES - GROUND FLOOR:	
	REMOVE EXISTING REDUNDANT SANITARY PIPING IN CEILING SPACE. CAP WHERE BRANCH IS NOT REQUIRED FOR NEW SERVICES.	
$\left \begin{array}{c} 2 \\ \end{array} \right $	REMOVE EXISTING DCW & DHW SERVICES AND CAP AT MAIN.	
(3)		





							r				
GE	NERAL	NEW PLUMBING	NOTES:								
1.		BE COMPLETED OUTSID Y WORK THAT CREATES			ULAR SCH	OOL OR					
	.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 AN	Y WORK INSIDE OR OUT CUPANTS SHALL BE DON	SIDE, THAT	CREATES	RISK TO B	UILDING					
		Y WELDING SHALL BE DO									
2.		RACTOR SHALL INVEST					RIOR TO				
3		TRUCTION PHOTOS: TH	-				HE SITE.				
0.	BUILDING,	SERVICES AND FINISHE	S PRIOR TO	THE COM	MENCEME	NT OF					
	THE CONS	TRUCTION, BOTH INTER	IOR AND EX	XTERIOR, A	ND WILL F	ROVIDE REG	CORD				
	SHALL BE	SHARED WITH THE OWN CTION STARTING.									
4		MERA EXISTING UNDER			AND STOR	M PIPING TH	IROUGH				
ч.	WORK ARE	EA TO CONFIRM CONDIT									
5		OR PRIOR TO FLOOR CU				INSTALLATI					
		ARCHITECTURAL DRAW									
υ.	CEILING H	EIGHTS TO ENSURE ALL PACE. RUN ALL NEW SE	SERVICES	ARE CON	CEALED W	/ITHIN AVAIL	ABLE				
		OR AS REQUIRED.	INICES UP			UL I VVEEN					
7.	COORDIN	ATE ALL SERVICES WITH	I ALL TRAD	ES PRIOR	TO INSTAL	LATION.					
8.		L FLOOR DRAINS DURIN	IG CONSTR	RUCTION TO	D PREVEN	T DEBRIS FF	ROM				
~					000 11-						
9.		NEW PLUMBING VENTS ⁻ RED OR TIE INTO EXISTI				THROUGH	KUUF				
10.	INSULATIC	N AND LABEL ALL NEW	PIPING WIT	THIN CEILIN	IG SPACE	IN AREA OF	WORK.				
11.		ALL NEW PIPING THRO	UGH RATE	D WALLS A	ND FLOOF	RS IN AREA (OF				
	WORK.				0.115						
12.		CCESS DOORS FOR ME OVER TO GENERAL CO					RYWALL				
13.		LING GRID AT ACCESS T	O MECHAN	IICAL EQUIF	PMENT AN	D DEVICES V	NITH				
14				יביי/יספס חו		SDECTION					
14.	SANITARY	RACTOR SHALL FLUSH, SYSTEM AFTER COMPLI	ETION OF V	VORK AND	PRIOR TO	SUBSTANTI	AL				
		ON. FLUSHING, SCOPING TIES INTO THE MAIN. SU					RK TO				
	WOR	(ING NOTES - 2NE) FLOOF	R:							
(1)		V DOWN IN CHASE TO NE									
\bigcirc		NITARY DOWN THROUGH					NATE				
(2)		V & DHW DOWN IN CHASI									
\cup	CARRIE	V AND 13Ø DTW TO HOT R AND MOUNTING HEIGH	T WITH GEI	NERAL CON	ITRACTOR		ON OF				
\sim		RY DOWN THROUGH FLO									
(3)	FOUNTA	V DOWN IN CHASE TO NE IN. COORDINATE MOUNT	ING HEIGH	T WITH GEN	NERAL CO	NTRACTOR.					
\sim		RY THROUGH PARTITION									
(4)		E NEW TRAP SEAL PRIME NATE POWER REQUIREN					N.				
(5)		E NEW HOSEBIBB WITHIN									
$\tilde{\sim}$											
6		E NEW FLOOR DRAIN ANI SPACE BELOW.		T TO EXISTI	NG SANITA	ARY SERVICE	ES IN				
$\overline{7}$	50Ø DCW, 25Ø DHW & 13Ø DRW UP FROM GROUND FLOOR IN PARTITION WALL TO										
$\overline{\mathbf{O}}$											
(8)	PROVIDE NEW LEAD FREE CBV AND BALANCE TO 0.5gpm.										
_		(ING NOTES - GR			_						
(1)	50Ø DCV PENETR	V, 25Ø DHW & 13Ø DRW U ATIONS.	JP TO SECO	OND FLOOR	. FIRESTO	P PIPING AT	FLOOR				
(2)		CT NEW 50Ø DCW, 25Ø D				RVICES IN CO					
	C/W ISO	LATION VALVES. FIREST	JP AT WAL	L PENETRA	HONS.						
		TYPI	CAL PLU	IMBING F	PIPE SIZ	ING					
			DCW	DHW	DTW	SANITARY	VENT				
		WC (FLUSH VALVE)	25Ø			75Ø	38Ø				
		LAVATORY	13Ø	13Ø	13Ø	32Ø	32Ø				
			130			32Ø	32Ø				
		HOSEBIBB	19Ø								
						 75Ø	 38Ø				
		1 (50 FD)				שטי	500				
		75Ø FD				1000	380				
		100Ø FD PROVIDE ISOLATION V				100Ø	38Ø				





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		CONTRO	OLS SCOPE OF	NORK:			HVAC	MATE	RIAL SPECIFICATIONS:
		CONTR	NERAL (PRIME) CONTR ACTOR FOR ALL NEW E	AS CONTR	OLS WORK UNDER A C	CASH ALLOWANCE.	1. DI .1 .2		K: NFORMANCE WITH SMACNA, ASHRAE, OBC, NFPA 90A. T METAL SHALL BE BEST QUALITY LOCK FORMING GALVANIZED SHE
<u>ح</u>		INSTAL ON THE	THE CONTRACT IS AWA LING CONTROLS CONT DRAWINGS. THE GENI SSFUL INSTALLING COI	RACTÓRS E ERAL (PRIM	BASED ON THE SCOPE E) CONTRACTOR SHAI	OF WORK OUTLINED	.3	META 0.054	L. GALVANIZING SHALL BE TO ASTM A525 (G90), HAVING A THICKNES MM AND WEIGHING NOT LESS THAN 0.31 KG/M2 ON EACH SURFACE. OUND DUCTWORK SHALL BE SPIRAL.
		2. THE ME	TED CASH ALLOWANCE	` OR SHALL I	BE RESPONSIBLE FOR	,	2. DI .1	DUCT	SS DOORS ACCESS DOORS SHALL BE EQUAL TO NAILOR 085CL(SQUARE) 0R OVAL). REFER TO DETAIL.
L		UNITS. 3. THE INS	STALLING CONTROLS C	ONTRACTO			3. Ho .1	PIPIN	R HEATING PIPING: G UP TO INCLUDING 2"(50mm): PIPING SHALL BE BLACK STEEL SCHEI TH MALLEABLE STEEL THREADED SCREW FITTINGS OR COPPER WIT
	EXHAUST FAN ENABLE EXHAUST FAN STATUS STATUS	4. DDSB S CONTR FULLY (INSTALI SYSTEM 5. DDSB S		UIRED SEN ALL OTHEF EXCEPT A RACTOR FO _S). CTRIC (24V	R NECÉSSARY CONTRO S NOTED HEREIN AND DR INSTALLATION. (THI) AND NEW BAS CONTR	DL DEVICES FOR A TURN OVER TO E EXISTING BAS ROL VALVES AND TURN	.2 .3 .4 .5	SOLD PIPIN WITH BRAS COPP PROV TO SF PROV	TH MALLEABLE STEEL THREADED SCREW FITTINGS OR COPPER WIT ER JOINTS. G 2-1/2"(63mm) AND OVER: PIPING SHALL BE BLACK STEEL SCHEDULI WELDED FITTINGS. S ADAPTERS SHALL BE PROVIDED AT ALL CONNECTIONS BETWEEN ER TUBING AND FERROUS PIPING. IDE AUTOMATIC AIR VENTS C/W BALL VALVE AT ALL HIGH POINTS. RI PECIFICATIONS BELOW. IDE DRAIN VALVES C/W HOSE CONNECTION AND CAP AT ALL LOW TS AND AS NOTED ON DETAILS.
	N CONTROL	MECHA	CONTROL VALVE BODIE NICAL CONTRACTOR S OFFICE AND TRANSPOR	HALL BE RI	ESPONSIBLE FOR PICK	ING UP VALVES FROM	.6	ALLO TO AC	W FOR ANY CHEMICAL TREATMENT OR GLYCOL FILL TO BRING SYST CCEPTABLE LEVELS AND SUBMIT REPORTS.
SCHEMATIC	(BAS CONTROL)	MECHA BE RES WELLS 7. SCOPE .1	HALL SUPPLY ALL NEW NICAL CONTRACTOR F PONSIBLE FOR PICKIN TO SITE. COORDINATE OF WORK SHALL INCLU REMOVAL OF REDUND PROVIDE NEW SPACE S	OR INSTAL 3 UP WELL WITH DDS JDE BUT IS ANT CONTF	LATION. MECHANICAL S FROM DDSB OFFICE B. NOT LIMITED TO: COLS.	CONTRACTOR SHALL AND TRANSPORTING	4. PI .1 .2 .3	THRE FOR C PROV SEPA MATE HANG	STABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING W ADED SUSPENSION RODS. COPPER PIPING (INCLUDING PIPING WITHIN WALLFIN ENCLOSURE) IDE COPPER PLATED OR EPOXY TYPE HANGERS OR PROVIDE RATION OF DISSIMILAR METALS WITH APPROVED DIELECTRIC RIALS. INSULATING TAPE IS NOT ACCEPTABLE. ERS SHALL WRAP AROUND OUTSIDE OF PIPE INSULATION. PROVIDE
		.3	EXISTING SENSORS TO ON DRAWINGS.	SUIT NEW RADE EXIS NCTIONAL S L NETWOR CK INTO EX	CONTROLS AS REQUI TING BAS CONTROLLE SYSTEMS. TIE NEW CO K. RELOCATE EXISTING ISTING BAS CONTROL	RED AND AS INDICATED RS AS INDICATED AND INTROLLERS INTO G CONTROLLERS A	.4 .5 5. V/	PIPE I -SIZES -SIZES -SIZES PROV	LES TO PREVENT CRUSHING OF INSULATION. HANGER SPACING S UP TO 1-1/4"(32mm) = 8'(2.5m) SPACING S 1-1/2"(38mm) TO 2"(50mm) = 10'(3m) SPACING S 2-1/2"(63mm) AND OVER = 12'(3.5m) SPACING IDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW D ACCESSORIES:
		PRECA COMMU RENOV REQUIF	NICAL CONTRACTOR A UTIONS DURING DEMO JNICATIONS WIRING RE ATION. CONTROLS CON RED TO MAINTAIN SYST AL CONTRACTOR SHAL	LITION AND MAINS FUL ITRACTOR EM UPTIME	NEW WORK TO ENSU LY FUNCTIONAL AND (SHALL PROVIDE ANY 1 AND INTEGRITY.	RE BAS OPERATIONAL DURING TEMPORARY WIRING	5. V, .1 .2	ALL V GENE CIRCU ALTEI UP FR SCHE	ALVES SHALL BE LINE SIZED UNLESS OTHERWISE NOTED. (CBVs RALLY NOT LINE SIZE). JIT BALANCING VALVES SHALL BE IMI TA STAS/STAD/STAF SERIES (N RNATES ACCEPTABLE). MOUNT WITH PORTS UPRIGHT OR AT LEAST ROM BOTTOM. SUBMIT SHOP DRAWINGS COMPLETE WITH VALVE SIZI
		SEALIN DEVICE	G ANY WALLS, CEILING S ARE REMOVED. COO OLS WITH INSTALLING	S, OR EQU RDINATE L	IPMENT WHERE EXIST	ING CONTROLS	.4	-WALI VALVI	MATIC AIR VENTS SHALL BE EQUAL TO: _FINS, CONVECTORS, RADS: "MAID-O-MIST" #67 COMPLETE WITH BAL E MAINS & LINES, MECHANICAL ROOMS, EQUIPMENT, COILS, CEILING
	AIR OUTLET SCHEDU	LE					6	COMF	ES AND ALL OTHER SPACES EXCEPT NOTED ABOVE: "MAID-O-MIST" PLETE WITH BALL VALVE
	TAG TYPE	A FIRE RATE			B SQUARE CONE	C EGG CRATE		ACCE	W FOR CHEMICAL TREATMENT TO BRING SYSTEM TO PTABLE LEVELS AND SUBMIT REPORTS. IN THE SERVICES OF MK SERVICES FOR ALL WATER TREATMENT.
	MANUFACTURER	LOUVERED F RETURN PRICE		N	DIFFUSER	PRICE		UCT INSUI	
	MODEL	535-FR-L(I SEE DRAWI	D) 535-FR	-L	SCD-31-3C SEE DRAWINGS	80 SEE DRAWINGS		.1	FIBERGLASS INSULATION, COATED TO PREVENT FIBRE EROSION AT VELOCITIES UP TO 400 fpm. ALL SUBSTRATE MATERIAL TO BE NON-DARKENED, CONTRASTING
	COLOUR	B12	B12	_	B12 -24x24 CEILING	B12 -NO BORDER FOR		.3	COLOUR FROM LINER LAYER. THICKNESS: 1" (25mm) MAL DUCT INSULATION
	ALTERNATE MANUFACTURERS	-1/2" BLADE SP, -CEILING FIRES FLAP -STANDARD 164 FUSIBLE LINK -ULC LISTED -W/DAMPER	ACING -1/2" BLADE S 5TOP -CEILING FIRE 5°F -STANDARD 1 FUSIBLE LINK -ULC LISTED -LESS DAMPE	PACING ISTOP 65°F	MODULE FOR T-BAR MOUNTING	T-BAR MOUNTING.		.1 .2 .3	INSULATION SHALL BE PRECOVERED, PREFORMED RIGID FIBROUS GLASS INSULATION COMPLETE WITH FOIL OR KRAFT ALL-PURPOSE JACKET. 0.75 PCF (12 kg/m ³) DENSITY, 0.29 K-VALUE WITH 25/50 FLAME SPREAD/SMOKE DEVELOPMENT CLASSIFICATION IN ACCORDANCE V CAN/ULC S102. SUPPLY, RETURN AND EXHAUST DUCT APPLICATION THICKNESS: 1" (25mm) MINIMUM. OUTDOOR AIR INTAKE DUCT APPLICATION THICKNESS:
	FAN SCHEDULE							.5	2"(50mm) MINIMUM RECOVERING JACKETS (INTERIOR): ULC LISTED "THERMO CANVAS", TREATED COTTON FABRIC.
	TAG SERVICE		EF-2 NEW WASI		CI	EF-209 USTODIAL 209	8. PI	PE INSUL	ATION: IDE 1-1/2"(38mm) PIPE INSULATION ON ALL HEATING PIPING SIZES UF
	TYPE MANUFACTURER		ROOF MC		CEII	LING MOUNTED BROAN	.2	PROV	NCLUDINĠ 1-1/4 [#] (32mm) IDE 2"(50mm) PIPE INSULATION ON ALL HEATING PIPING SIZES (38mm) AND OVER
	MODEL AIR FLOW	cfm	100C1 45			L100MG 100	.4	and e Barr	RNAL PIPE INSULATION SHALL BE RIGID, SECTIONAL FIBERGLASS TY BE COMPLETE WITH FACTORY SUPPLIED ALL PURPOSE VAPOUR IER. PRE-FORMED INSULATION SHALL BE USED AT PIPE FITTINGS, ES. ETC. PROVIDE NON-CRUSHING INSULATION AT ALL PIPE HANGEF
	EXTERNAL STATIC SOUND FAN RPM	in.wc.	0.5 61 dBA/11 145	SONES	2	0.25 2.5 @ 0.1"ESP 	.5 9. A	and f Prov	PROVIDE SADDLES. IDE PVC JACKET ON ALL INSULATION IN EXPOSED AREAS.
	FAN MOTOR FAN TYPE	hp	FRACTI	FRACTIONAL DIRECT DRIVE C/W FSC		FRACTIONAL CENTRIFUGAL BLOWER		FLUSI DOOF	DORS/COVERS H ACCESS DOOR - UNIVERSAL: ACUDOR #UF-5000 UNIVERSAL ACCES RS, 14 GA. (1.7mm) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS EALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER
	AMPS ELECTRICAL	amps volt/ph	- 115/			0.5A 120/1		OTHE PAINT	ATED LOCK. DOORS IN WASHROOMS SHALL BE STAINLESS STEEL. A R PANELS SHALL BE BAKED ENAMEL PRIME COATED FOR FIELD 'ING. MINIMUM SIZE OF PANELS SHALL BE 12"x18" (300mmx450mm). REVER POSSIBLE 24"x24" (600mmx600mm) PANELS SHALL BE USED.
	DIMENSIONS APPROX. WEIGHT CONTROLS	inches Ibs	18-3/4 SQ x 14 -TIE INTO BAS TO RU			14 SQ x 17 L AS TO RUN DURING	.2	2 RECESS RECESS COAT, W	SSED ACCESS DOOR - DRYWALL AREA: ÁCUDOR #DW-5015 SERIES SSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME , WITH CONCEALED PIVOTING ROD TYPE HINGE AND SELF-OPENING WDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8" (14mm) TO
	ACCESSORIES		OCCUPIED HOURS -ROOF CURB -FAN SPEED CONTRO -NEMA-1 DICONNECT -BACKDRAFT DAMPE		MOUNTS	GRILLE		RECE	IVE DRYWALL. FLANGE OF DOOR TO BE GALVANIZED STEEL TAPING ING TO PROVIDE FINISH OF DRYWALL JOINTS FOR FIELD PAINTING.
	ALTERNATE MANUFACT		GREENHECK. CARNE	S PENN	-6" DUCT COI -METAL GRIL	NNECTER ASSEMBLY LE			
		NEW	HOT WATER WA						
		TAG			1	VF-A			
			ACTURER N MODEL			IGMA VE-SS			
		ELEMEN	IT			r-44C075 RED TOP OUTLET			
		FLUID				RED BOTTOM INLET 0% GLYCOL)			
			SURE HEIGHT	in. in.		12 5-1/4			
		ENCLOSURE LE				/EASURE ESS STEEL			
		ELEMEN	IT LENGTH G CAPACITY	btuh/ft	REFER TO	D DRAWINGS 630			
		EWT/LW	Ϋ́Τ	°F		60/140			
			TERS/ROWS R TUBING DIA.	in.		1 3/4"			
		ALUMIN	UM FINS DLS	in.	-CONTROL VALVE AN	1"x4" ND SENSOR. REFER			
			ACCESSORIES			-CONTINUOUS COVER C/W SPACERS, JOINERS ETC. AS REQUIRED -SLOPE LOUVERED TOP OUTLET AND			

BOTTOM INLET

NOTES

ALTERNATE MANUFACTURERS

CONTRACTOR / SUPPLIER SHALL SITE

MEASURE ALL ELEMENT AND ENCLOSURE LENGTHS & HEIGHTS PRIOR TO ORDERING MATERIAL. LENGTHS & HEIGHTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ENGINEERED AIR, EH PRICE. TRANE

ICATIONS:

ITH SMACNA, ASHRAE, OBC, NFPA 90A. BE BEST QUALITY LOCK FORMING GALVANIZED SHEET SHALL BE TO ASTM A525 (G90), HAVING A THICKNESS OF ING NOT LESS THAN 0.31 KG/M2 ON EACH SURFACE.

ING 2"(50mm): PIPING SHALL BE BLACK STEEL SCHEDULE STEEL THREADED SCREW FITTINGS OR COPPER WITH ND OVER: PIPING SHALL BE BLACK STEEL SCHEDULE 40

IALL BE PROVIDED AT ALL CONNECTIONS BETWEEN FERROUS PIPING. AIR VENTS C/W BALL VALVE AT ALL HIGH POINTS. REFER

'ES C/W HOSE CONNECTION AND CAP AT ALL LOW D ON DETAILS. MICAL TREATMENT OR GLYCOL FILL TO BRING SYSTEM

GHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH

VALVES SHALL BE IMI TA STAS/STAD/STAF SERIES (NO TABLE). MOUNT WITH PORTS UPRIGHT OR AT LEAST 90° UBMIT SHOP DRAWINGS COMPLETE WITH VALVE SIZING

, MECHANICAL ROOMS, EQUIPMENT, COILS, CEILING HER SPACES EXCEPT NOTED ABOVE: "MAID-O-MIST" #71

SULATION, COATED TO PREVENT FIBRE EROSION AT AIR E MATERIAL TO BE NON-DARKENED, CONTRASTING

E DEVELOPMENT CLASSIFICATION IN ACCORDANCE WITH RN AND EXHAUST DUCT APPLICATION THICKNESS:

) PIPE INSULATION ON ALL HEATING PIPING SIZES UP TO

ILATION SHALL BE RIGID, SECTIONAL FIBERGLASS TYPE VITH FACTORY SUPPLIED ALL PURPOSE VAPOUR D INSULATION SHALL BE USED AT PIPE FITTINGS, E NON-CRUSHING INSULATION AT ALL PIPE HANGERS T ON ALL INSULATION IN EXPOSED AREAS.

- UNIVERSAL: ACUDOR #UF-5000 UNIVERSAL ACCESS m) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS WITH POSITIVE AND SELF-OPENING SCREWDRIVER OORS IN WASHROOMS SHALL BE STAINLESS STEEL. ALL L BE BAKED ENAMEL PRIME COATED FOR FIELD SIZE OF PANELS SHALL BE 12"x18" (300mmx450mm). E 24"x24" (600mmx600mm) PANELS SHALL BE USED. DOOR - DRYWALL AREA: ACUDOR #DW-5015 SERIES DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME FD PIVOTING ROD TYPE HINGE AND SELF-OPENING ATED LOCK. DOOR TO BE RECESSED 5/8" (14mm) TO LANGE OF DOOR TO BE GALVANIZED STEEL TAPING E FINISH 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. (PENDING 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.
- 0. 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.
- 1. ALL INDOOR CONTROL WIRING SHALL BE RUN IN EMT CONDUIT OR FT6 (EMT SHALL BE USED IN EXPOSED AREAS). LAST 3' SHALL BE BX WHEN USING CONDUIT. ALL OUTDOOR CONTROL WIRING SHALL BE RUN IN LIQUIDTIGHT.1 [ALL CONCEALED INDOOR CONTROL WIRING SHALL BE RUN IN LVT. 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.
- 2. 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/CUA 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.
- 13. PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
- 14. 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.
- 15. 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.
- 16. ALL CBVs SHALL BE MOUNTED WITH PORTS IN HORIZONTAL (90°) POSITION.
- 17. PROVIDE EXTERNAL INSULATION ON ALL HEATING PIPING EXCEPT IN WALLFIN ENCLOSURES.
- 18. PROVIDE FIRE STOPPING AROUND ALL NEW PIPING THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH CAN/ULC-S115. 19. 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.
- 20. 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 BAI ANCING 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: mike@qualityairdistribution.com DESIGN TEST & BALANCE CONTACT: SURRINDER SINGH
- TEL: (905)886-6513 EMAIL: mail@designtest.ca
- FLOWSET BALANCING CONTACT: CHRIS PITHER PHONE: (416)410-9793 OR (647)321-5114 EMAIL: chrisp@flowset.com
- COMPLETE SYSTEMS BALANCING CONTACT: TREVOR KELLY PHONE: 705-760-0390 EMAIL: trevork@csbalancing.com

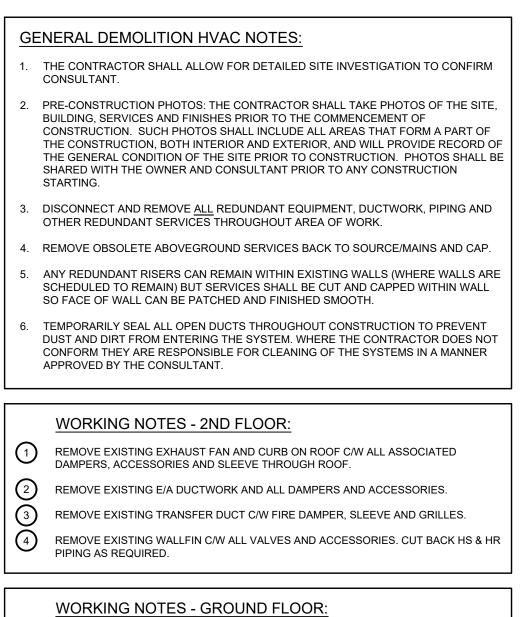
GENERAL NOTES:

- WORK TO BE COMPLETED OUTSIDE REGULAR HOURS: ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REC HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTER
- WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBR THAT GENERATES FUMES/SMELLS, ETC. ANY WORK INSIDE OR OUTSIDE, THAT CREATES RISK TO BUILDI OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HO
- ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS
- OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPEC
- THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SIT OR AS ARRANGED BY CONSULTANT OR OWNER.
- OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT WORK BEING DONE.
- PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT TO CONS REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIG MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTA SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WIT ELECTRICIAN AND/OR SITE, EQUIPMENT PERFORMANCE, DIMENSIONS A CLEARANCES.
- THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND DRAWING SET PRIOR TO PRICING AND INSTALLATION.
- INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIR RECOMMENDATIONS. DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE
- CONSTRUCTION WITHOUT WRITTEN APPROVAL. WHERE SYSTEMS ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN ACCEPTABLE TO THE CONSULTANT.
- MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SH AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONS
- 10. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
- REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FRO DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND I SHALL NOT BE ABANDONED IN PLACE.
- ALL CUTTING AND CORING SHALL BE BY THIS CONTRACTOR. COORDIN WITH GENERAL CONTRACTOR, TRENCHING, EXCAVATION AND BACKFIL UNDERGROUND PLUMBING SHALL BE BY THIS CONTRACTOR, ALL SAW RESTORATION OF CONCRETE FLOOR BY GENERAL CONTRACTOR. COO
- COORDINATE ROOFING FOR DUCT AND PIPE ROOF PENETRATIONS WIT CONTRACTOR. PROVIDE PITCH POCKETS FOR ALL SERVICES THROUGH SERVICES CAN BE FED THROUGH BASE OF EQUIPMENT.
- . ANY FEED TO NEW ROOFTOP EQUIPMENT SHALL BE INSTALLED WITH C STYLE PITCH POCKET EQUAL TO THALER METAL MEF-2A OR DOGHOUSI REQUIRED TO SUIT FEED.
- MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
- . TAG ALL EQUIPMENT WITH LAMACOID NAMEPLATES. TAG ALL VALVES \ NAMEPLATES OR BRASS TAGS ON CHAINS.
- 17. LABEL ALL NEW PIPING WITH SERVICE AND FLOW ARROWS EVERY 10'(3 EITHER SIDE OF WALLS.
- THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS BY THE ENGINE CEILINGS AND WALLS BEING CLOSED IN WHERE THIS HAS NOT BEEN A THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR AC FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
- PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES H JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.
- INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATIO SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTE
- 1. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINA UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATING ALL ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE C RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS TH RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD R FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RA MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSU TO PERFORMING THE NEXT FIELD REVIEW.
- 22. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FRO OF SUBSTANTIAL COMPLETION.
- 23. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS A DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS / DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
- 4. PROVIDE ONE (1) ELECTRONIC COPY OF MAINTENANCE MANUAL BY WE 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 DRAWIN

ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS S STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS). DRAV BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION V AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED CONSULTANT AND THE CONSULTANT HAS APPROVED.

	н	VAC LEGEND				
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DL OR OCCUPANT EGULAR SCHOOL ERRUPTIONS,		EXISTING				
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DING HOURS.		SUPPLY DUCTS (UP / DOWN)				
	to the second se	EXHAUST DUCTS (UP / DOWN)				
ECTIONS.	-	ROUND DUCTS (UP / DOWN)				
SITE MEETINGS		FLEXIBLE DUCT				
THE CLIENT AND NT PRIOR TO ANY		ACOUSTIC LINED DUCT				
		TURNING VANES				
NSULTANT FOR SIGNED BY THE TANT. REVIEW	<u><u></u></u>	BALANCE DAMPER				
WITH IS AND		FIRE DAMPER				
ID COMPLETE		SUPPLY DIFFUSER (SQUARE / ROUND)				
		RETURN/EXHAUST CEILING GRILLE				
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IGH ROOF UNLESS	іі И	CONCENTRIC REDUCER	0 No.	2025-01-22 Date	Issued for Client Review Description	BRT By
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AND SYSTEMS AS	· · · · · · · · · · · · · · · · · · ·	AUTOMATIC AIR VENT C/W 1/4" BALL			PROFESSIO	NALC
6.		VALVE AND NIPPLE/COUPLING (MINI BALL VALVES NOT ACCEPTABLE)			B.R. TIMS	ON E
S WITH LAMACOID		EQUIPMENT TYPE OF EQUIPMENT			S. R. TIMS 1005116	0N 55
0'(3m) AND ON		SYMBOLS NUMBER DESIGNATION			FEB 5/2	1.01
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BY CODE, THE	QTY TYPE	ТҮРЕ				
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L DEFICIENCIES CONSULTANT	EX	EXISTING TO REMAIN				
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drafter: MRC	scale: NTS						
designer: BRT	date: 2025/01/22						
approver: BRT	APPROVER:						
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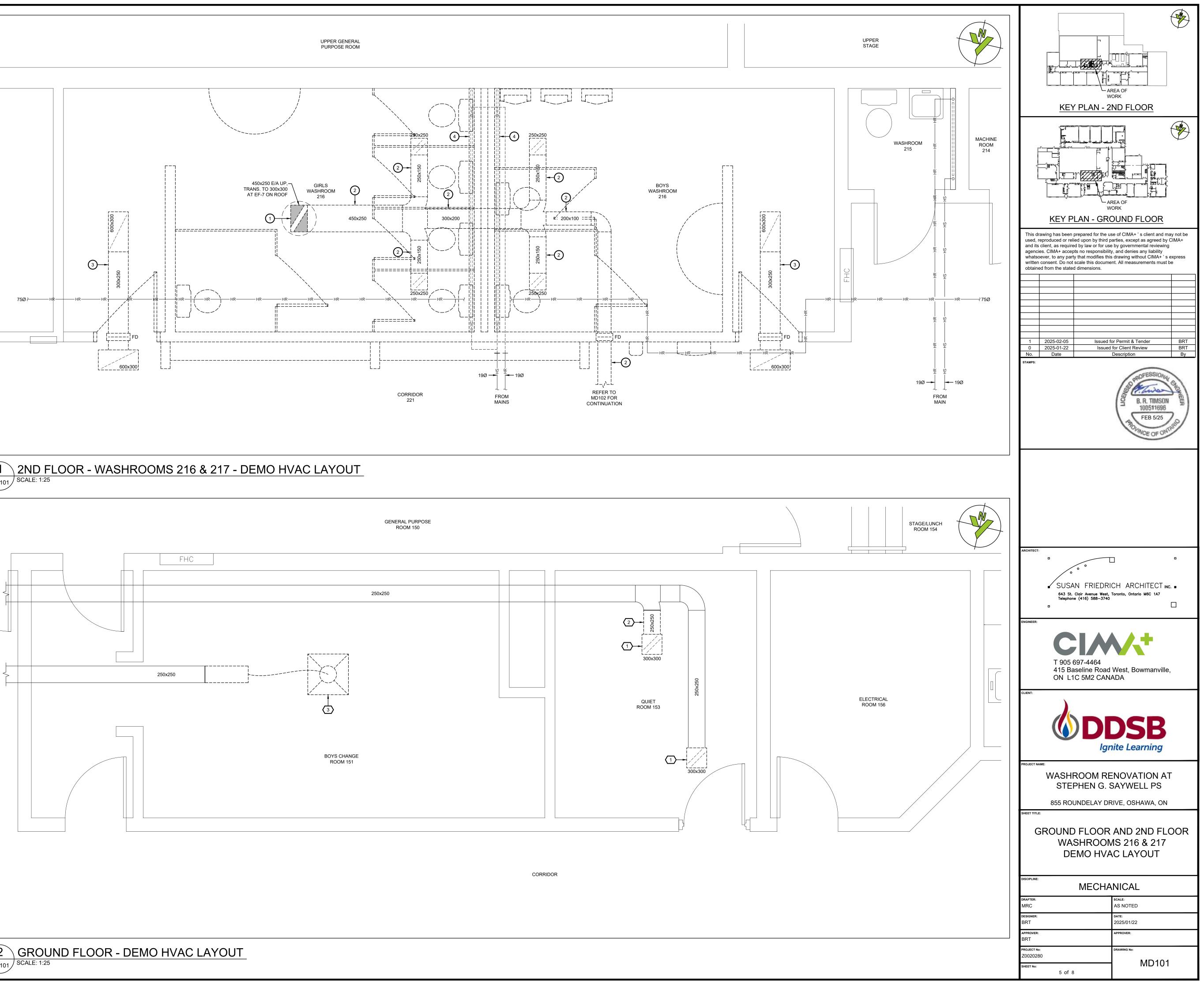


REMOVE EXISTING E/A GRILLE AND DAMPERS.

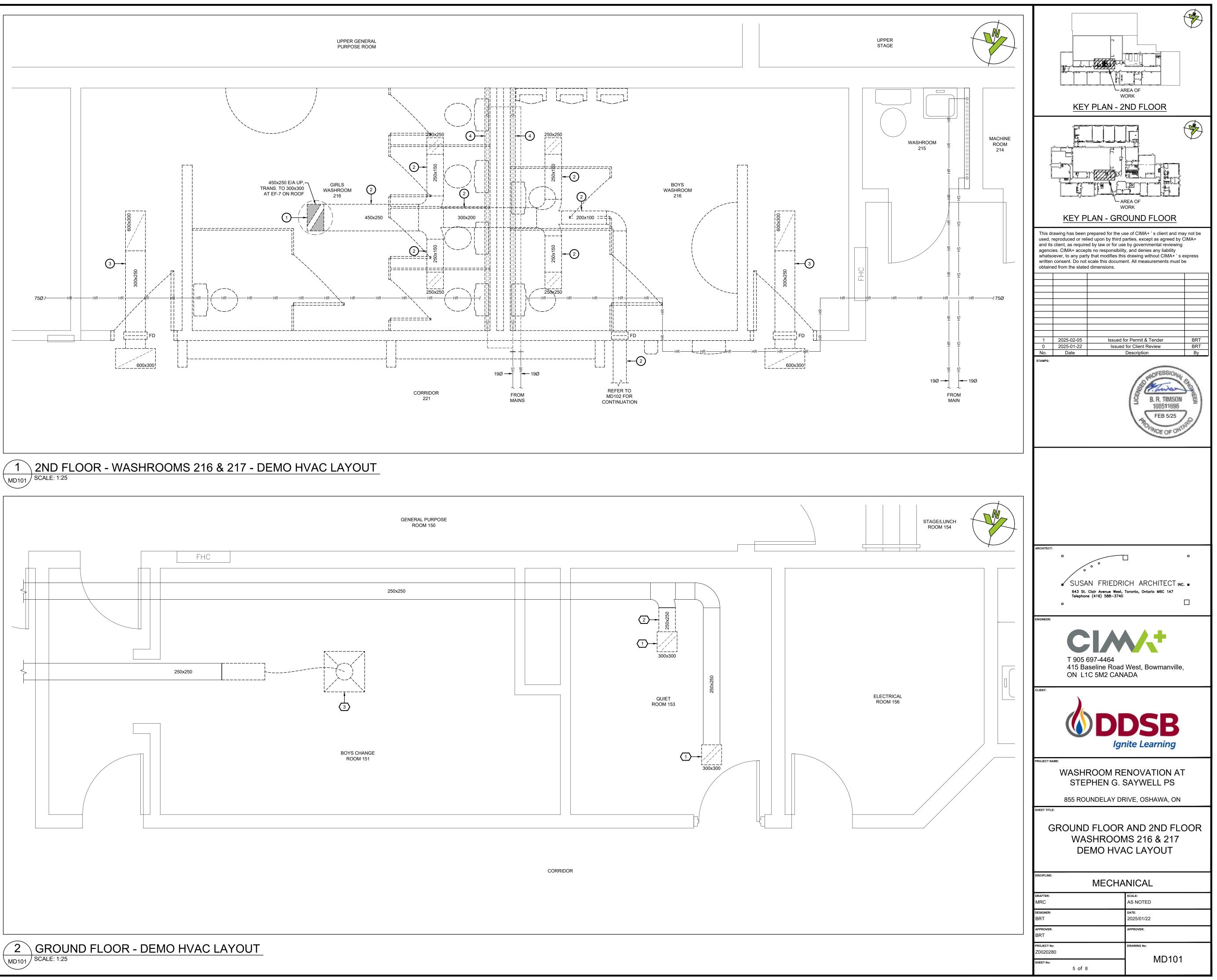
2 CUT BACK AND CAP EXISTING E/A DUCT BRANCH.

REQUIRED TO SUIT NEW DUCTWORK.

3 REMOVE EXISTING DIFFUSER AND FLEXIBLE DUCT. CUT BACK S/A DUCT AS

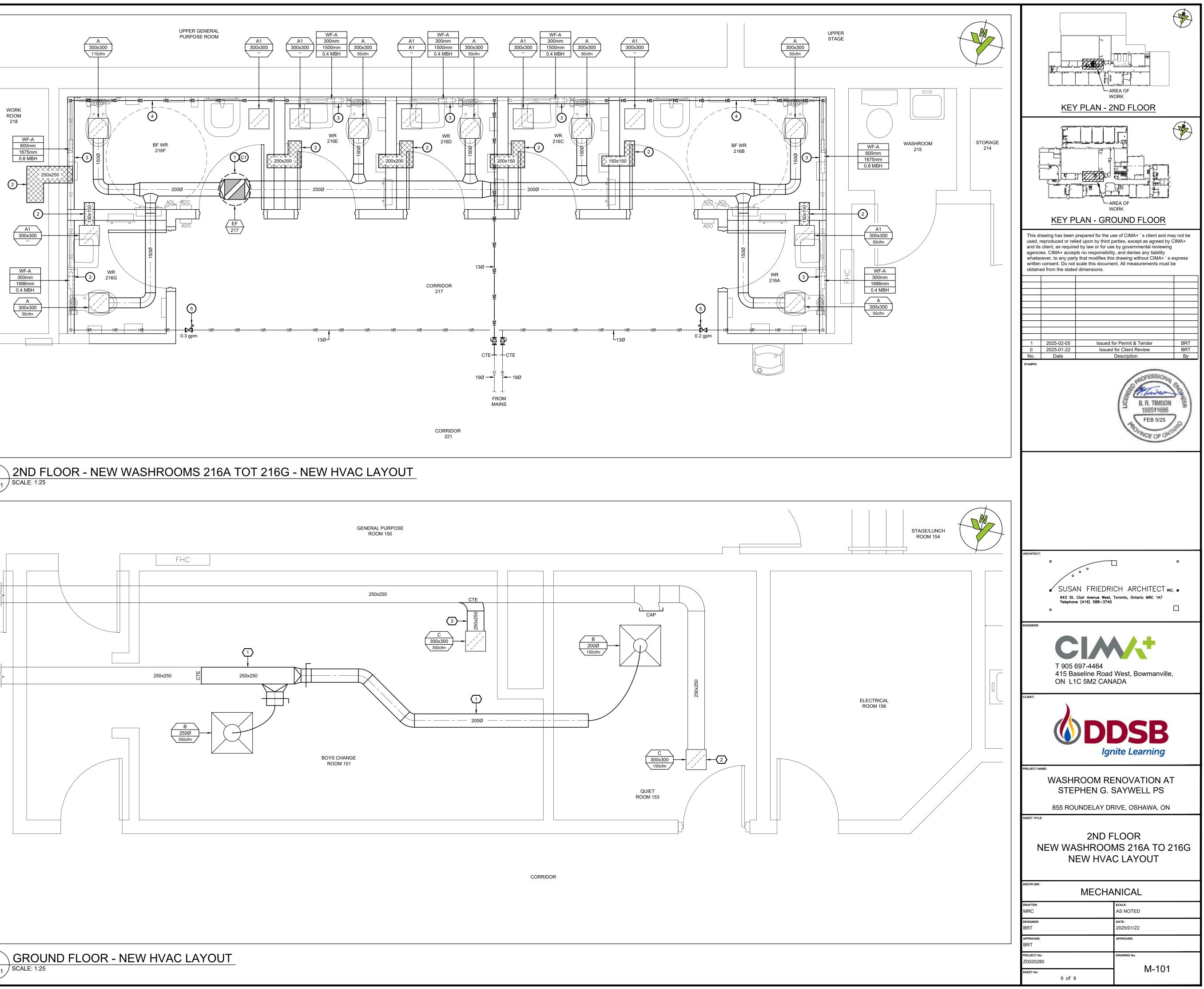


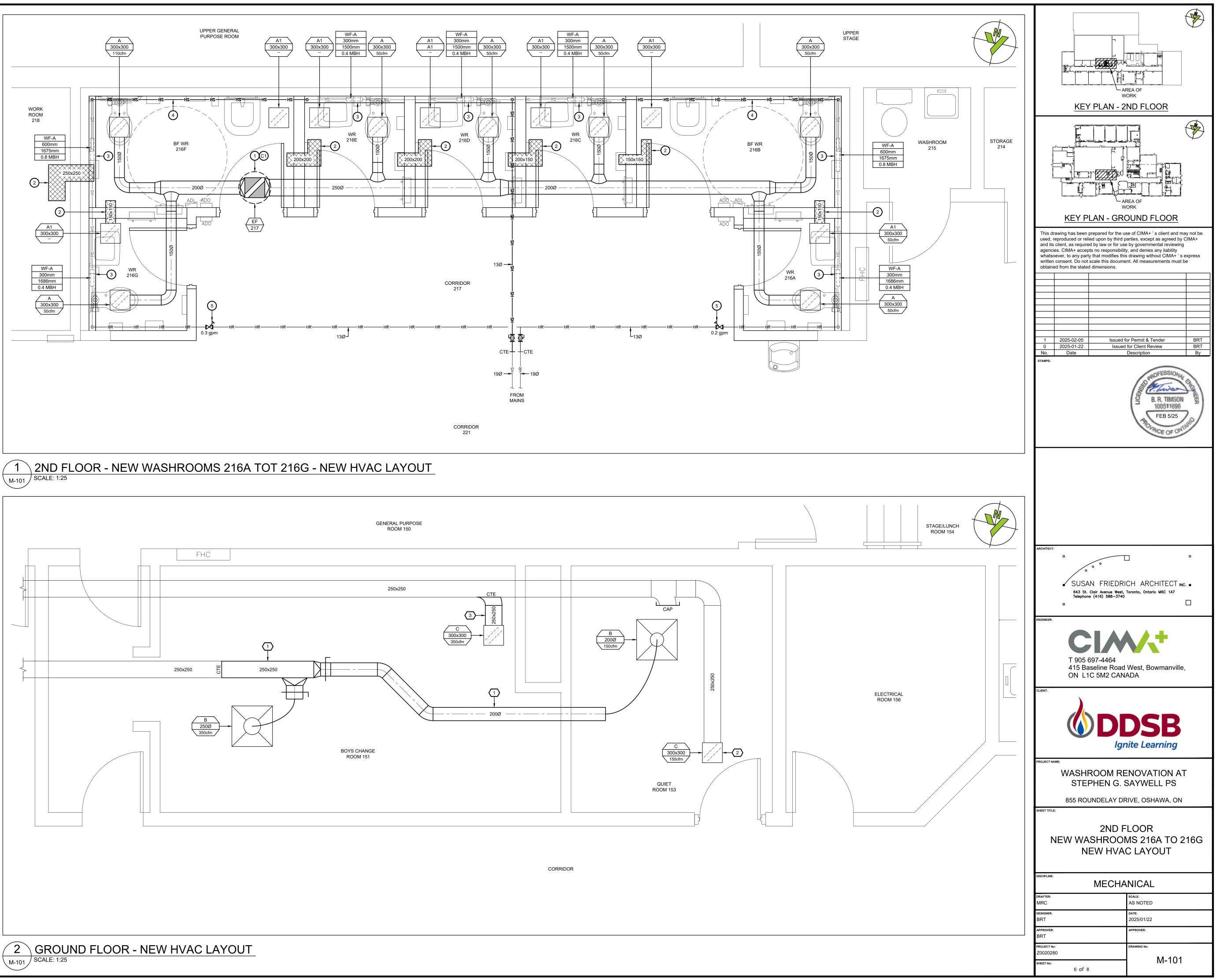
1 2ND FLOOR - WASHROOMS 216 & 217 - DEMO HVAC LAYOUT

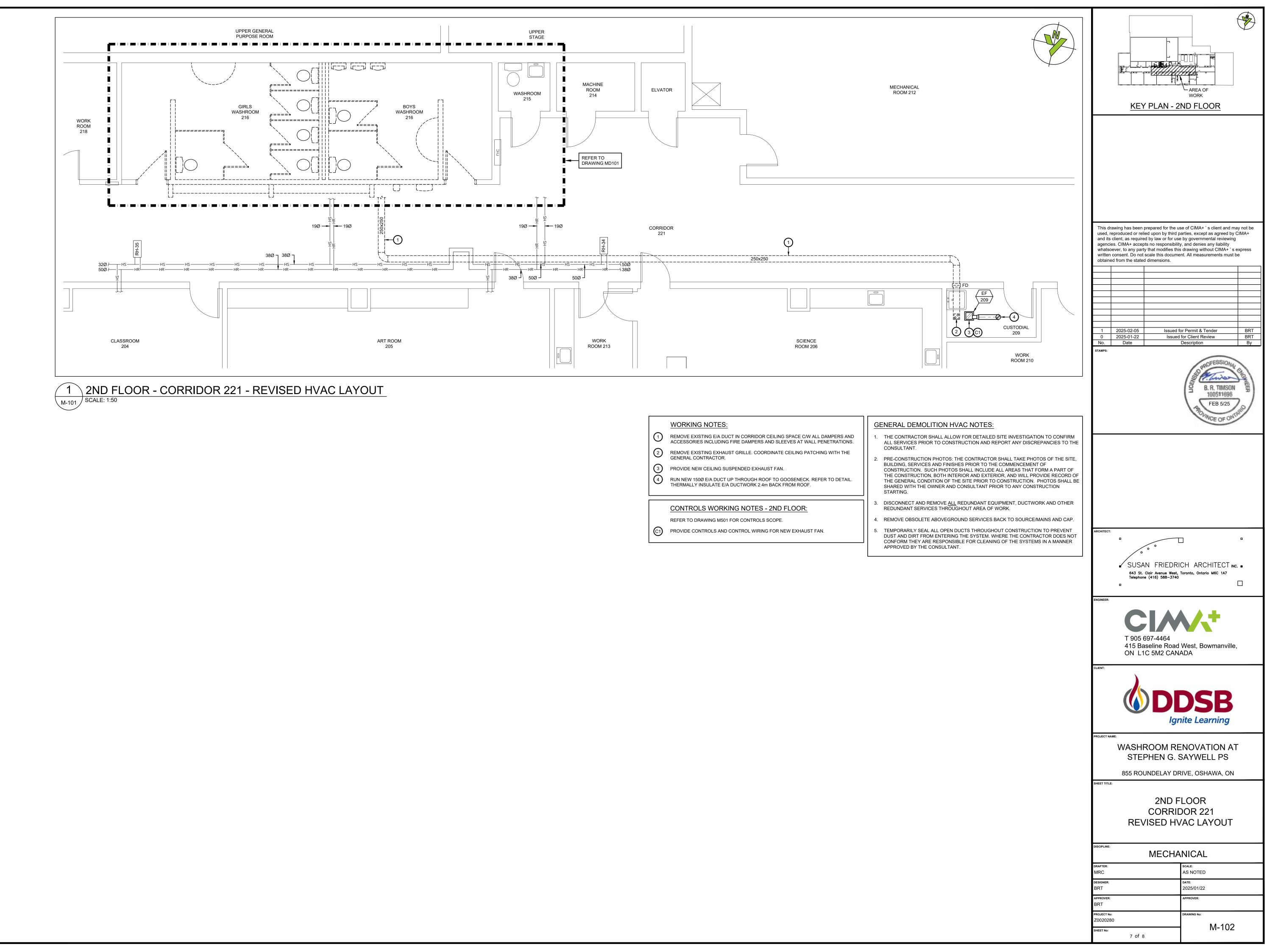


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GE	NERAL NEW HVAC NOTES:	
1.	 WORK TO BE COMPLETED OUTSIDE REGULAR HOURS: ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL OR OCCUPANT ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE 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.	
4.	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.	
6.	COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.	
7.	THERMALLY INSULATE EXHAUST AIR DUCTWORK 2.4m BACK FROM ROOF.	
8.	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.	
		1
	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.	
3	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.	
5	PROVIDE CBV FOR EACH BRANCH OF HR PIPING AND BALANCE TO VALUE SHOWN.	
	CONTROLS WORKING NOTES - 2ND FLOOR:	ן ן
	REFER TO DRAWING M501 FOR CONTROLS SCOPE.	
C1	PROVIDE CONTROLS AND CONTROL WIRING FOR NEW EXHAUST FAN.	
]
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	WORKING NOTES - GROUND FLOOR:	
	PROVIDE NEW S/A DUCT AND DIFFUSER AND CONNECT TO EXISTING S/A MAIN IN CHANGEROOM CEILING.	
2	EXTEND E/A DUCT DOWN TO CEILING LEVEL AND CONNECT TO NEW GRILLE IN TBAR CEILING. PROVIDE NEW BALANCE DAMPER.	M-101
3	PROVIDE NEW TAKEOFF, GRILLE AND BALANCE DAMPER AND CONNECT TO EXISTING E/A DUCT.	

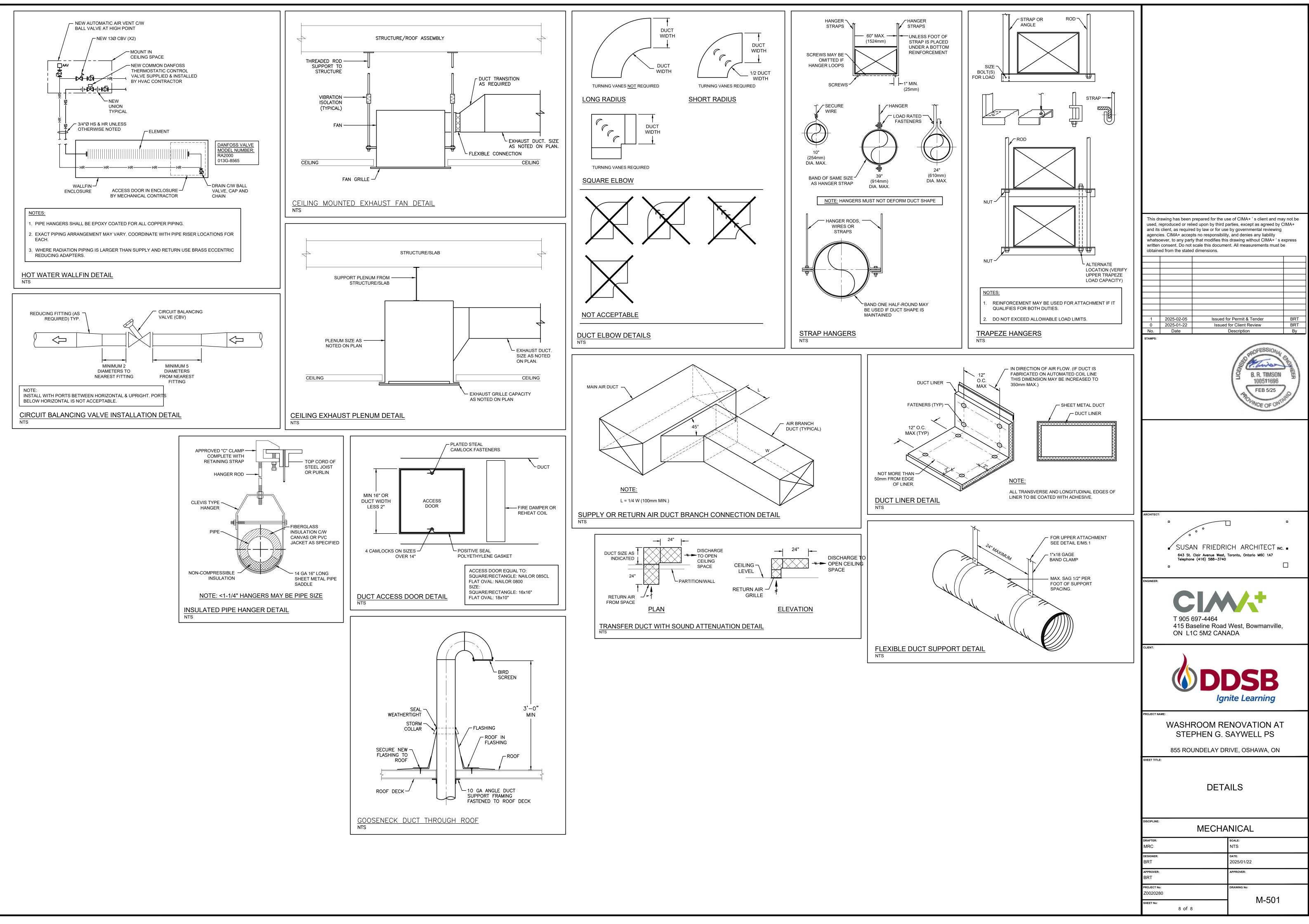






	WORKING NOTES:
	REMOVE EXISTING E/A DUCT IN CORRIDOR CEILING SPACE C/W ALL DAMP ACCESSORIES INCLUDING FIRE DAMPERS AND SLEEVES AT WALL PENET
2	REMOVE EXISTING EXHAUST GRILLE. COORDINATE CEILING PATCHING W GENERAL CONTRACTOR.
3	PROVIDE NEW CEILING SUSPENDED EXHAUST FAN.
4	RUN NEW 150Ø E/A DUCT UP THROUGH ROOF TO GOOSENECK. REFER TO THERMALLY INSULATE E/A DUCTWORK 2.4m BACK FROM ROOF.
	CONTROLS WORKING NOTES - 2ND FLOOR:
	REFER TO DRAWING M501 FOR CONTROLS SCOPE.
C 1	PROVIDE CONTROLS AND CONTROL WIRING FOR NEW EXHAUST FAN.





MT vs. LIQUIDTIGHT vs. FLEXIBLE CABLE	FIRE ALARM SCOPE OF WORK:	GENERA
MT (ELECTRICAL METALLIC TUBING) MUST BE USED IN THE FOLLOWING INDOOR PPLICATIONS:	1. EXISTING FIRE ALARM CONTROL PANEL IS SIMPLEX 4100U.	1. WORK TO
ALL EXPOSED AREAS (USE WIREMOLD ON EXPOSED WALLS IN FINISHED AREAS WHERE EXPOSED WIRING HAS BEEN APPROVED).	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	O IN G G .2 A
T-BAR CEILING SPACES. VERTICAL DROPS TO DEVICES IN NEW WALLS (I.E. SWITCHES RECEPTACLES, DATA/VOICE.)	 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 	2. THOROU DRAWING
QUIDTIGHT MUST BE USED IN THE FOLLOWING INDOOR AND OUTDOOR PPLICATIONS:	CIRCUITS. 4. ALL DEVICE AND SIGNAL CIRCUITS TO BE WIRED TO MATCH EXISTING.	3. OBTAIN,
LAST 5' (1.5m) FOR FINAL CONNECTION TO INDOOR AND OUTDOOR MECHANICAL EQUIPMENT. LIQUID TIGHT CONDUIT IN CEILING SPACE MUST BE PLENUM RATED.	 TIE NEW AHUS 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. 	4. OBTAIN A COORDIN WORK BE
ALL OUTDOOR WIRING.	6. NEW END OF LINE RESISTORS TO BE MOUNTED BY FIRE ALARM CONTROL PANEL.	5. THE ELE UNLESS
LEXIBLE CABLE IS ONLY ACCEPTABLE IN THE FOLLOWING INDOOR APPLICATIONS: LAST 5' (1.5m) FOR FINAL CONNECTION TO LIGHTING AND SMALL EQUIPMENT/COMPONENTS IN CEILING SPACES. DAISY CHAIN OF LUMINAIRES IS	 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. 	6. PROVIDE REVIEW. ELECTRIC SHALL IN
NOT ALLOWED.	 2 LABEL ALL FOWER SONG FOR BOXES WITH FANEL AND CIRCUIT NOMBER. 8. TEST AND VERIFY THE FIRE ALARM SYSTEM IN CONFORMANCE WITH CAN/ULC-S537-M "STANDARD FOR THE VERIFICATION OF FIRE ALARM SYSTEMS" TO 	AND CLE 7. INSTALL
CEILING SPACE OR ON ROOF. FISHED DOWN IN EXISTING WALL(S). FLEXIBLE CABLE IN <u>NOT PERMITTED</u> IN	 9. PERFORM AUDIBILITY TESTS AS PER ONTARIO FIRE CODE (MINIMUM 65DBA, 	8. MAINTAIN
NEW WALL(S).	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	9. ALL WOR
A. SYSTEMS	MODIFICATIONS AND REVERIFICATIONS AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS.	10. REMOVE
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.	10. PROVIDE VERIFICATION REPORT AND AUDIBILITY TESTS TO THE CONSULTANT FOR REVIEW. SUBMIT FINAL COPY OF REPORT TO THE BUILDING DEPARTMENT/FIRE PREVENTION.	IN AN API ABANDO 11. ALL CUT PATCHIN
ELECTRICAL CONTRACTOR RESPONSIBLE FOR PROVIDING ALL INFRASTRUCTURE FOR COMMUNICATION CABLING INCLUDING BUT NOT LIMITED TO BACK BOXES, CONDUIT UP WALL WITH PULL STRING AND INSULATING BUSHINGS, AND CONDUIT	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.	12. ALL CON MOUNTE
INFRASTRUCTURE IN CEILING SPACE INCLUDING JUNCTION BOXES, CONDUIT STUBS AS REQUIRED.	FIRE ALARM SPECIFICATIONS:	13. MAINTAIN REQUIRE
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.	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	14. PROVIDE EQUIPME CONTRA
EXISTING SYSTEM IS DUKANE. ANY NEW DEVICES TO MATCH EXISTING SYSTEM. PROVIDE SHOP DRAWINGS FOR REVIEW.	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	COORDIN 15. TAG ALL
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 8LS822-19	LISTED. 2. THE EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CURRENT PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:	DISCONN NAMEPL/ OF FEED PANEL SO
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 FT6 RATED CABLE.	.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	16. LABEL AL USE BLA WITH BL/ ALARM.
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.	.5 NFPA 101 - LIFE SAFETY CODE .6 CAN/ULC-S524 AND OTHER APPLICABLE ULC STANDARDS .7 AUTHORITY HAVING JURISDICTION	17. THE CON TO CEILI
PROVIDE AS-BUILT MARKUPS OF ANY NEW DEVICES AND ANY NEW JUNCTION BOXES PROVIDED TO SUIT.	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.	IS THE CO DOORS F
CONTRACTOR TO ALLOW FOR MEETING ON SITE WITH KPRDSB REPRESENTATIVE TO REVIEW ALL INSTALLATION REQUIREMENTS AT THE BEGINNING OF THE PROJECT.	 4. FIRE DETECTOR MOUNTING: .1 FIRE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 1000mm HORIZONTALLY FROM TIP OF A CEILING SUSPENDED (PADDLE) FAN OR 	18. PERFORI 19. ASSIST V
D. P.A. CABLING SHALL BE LABELLED WITH ROOM NUMBER ON BOTH ENDS OF CABLE.	CEILING MOUNTED UNIT HEATER MEASURED TO THE EDGE OF THE DETECTOR. 2 FIRE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 450mm FROM ANY	20. INSTRUC
I. TESTING: .1 CONTRACTOR MUST PROVIDE INSPECTION, TESTING, REQUIRED ADJUSTMENTS, COMMISSIONING VERIFICATION AND CERTIFICATION OF THE SYSTEM. CONFIRM FINAL ROOM NUMBERS WITH KPRDSB. SUBMIT REPORT	5. DEVICE MOUNTING HEIGHT:	UPON RE CORREC ARE COM
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.	 .2 WALL MOUNTED AUDIBLE SIGNAL TO BE MOUNTED MINIMUM 6" (150mm) BELOW CEILING AND NO LESS THAN 90"(2300mm) A.F.F. TO THE TOP OF THE DEVICE 	RECEIVE RE-INSPE RESPON
IMPENDENCE TEST SHALL BE DONE ON EVERY SPEAKER AND INCLUDED IN REPORT. .3 CONTRACTOR SHALL TEST SYSTEM TO ENSURE PROPER OPERATION AND	.3 STROBE(S) TO BE MOUNTED SO THAT ENTIRE LENS IS 78"-94" (2000-2400mm) A.F.F. .4 COMBINATION HORN/STROBE(S) SHALL CONFORM TO BOTH 5.2 AND 5.3	FOR ADD MILEAGE TO PERF
MAKE ANY CORRECTIONS TO THE SYSTEM AT NO COST TO THE OWNER.	S END OF LINE RESISTORS TO BE MOUNTED LESS THAN 70" (1800mm) A.F.F	22. PROVIDE OF SUBS
	.1 WIRING SHALL BE IN ACCORDANCE WITH LOCAL, PROVINCIAL AND NATIONAL CODES, AND AS RECOMMENDED BY THE MANUFACTURER OF THE FIRE ALARM SYSTEM.	23. PROGRE DRAWING
	.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	DRAWING FIELD RE WITH PIC
	DIRECTED BY MANUFACTURER). .3 ALL WIRE AND CABLE SHALL BE LISTED AND/OR APPROVED BY A RECOGNIZED TESTING AGENCY FOR USE WITH A PROTECTIVE SIGNALING SYSTEM.	24. PROVIDE INCLUDIN ALARM V
	 .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 	DRAWING INCLUDIN ELECTRI
	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	COLOUR 25. PROVIDE FIXTURE
	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.	
	 IDENTIFICATION. 7. SURFACE DEVICES AND EXPOSED CONDUIT: .1 ALL SURFACE MOUNTED CONDUIT MUST BE APPROVED BY OWNER OR 	
	 ALL SURFACE MOUNTED CONDUIT MUST BE APPROVED BY OWNER OR CONSULTANT PRIOR TO INSTALLATION. PROVIDE WIREMOLD (PANDUIT) FOR ALL WIRING IN EXPOSED AREAS. ANY SURFACE BOXES SHALL BE 'FS' (NO KNOCKOUTS) AND BE 	
	 8. FIRE STOP ALL EXISTING AND NEW CONDUIT THROUGH FIRE SEPARATIONS IN 	
	ACCORDANCE WITH THE OBC.	

NOTES:

- O BE COMPLETED OUTSIDE REGULAR HOURS: ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS NCLUDES 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.
- UGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE IG SET PRIOR TO PRICING AND INSTALLATION.
- , ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS. AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND INATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY BEING DONE.
- ECTRICAL CONTRACTOR AND SUB-TRADES SHALL ATTEND ALL SITE MEETINGS OTHERWISE APPROVED.
- E ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE ICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW NCLUDE, BUT NOT LIMITED TO, VERIFYING VOLTAGE, RATING, DIMENSIONS EARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO CONSULTANT.
- ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND MENDATIONS.
- IN RECORD DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE BLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
- RK SHALL COMPLY WITH APPLICABLE CODES.
- E ALL REDUNDANT EQUIPMENT AND MATERIALS FROM SITE AND DISPOSE OF PPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ONED IN PLACE.
- ITING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE NG WITH GENERAL CONTRACTOR.
- NDUIT SHALL BE CONCEALED AND ALL DEVICES RECESSED. SURFACE ED CONDUIT IS NOT PERMITTED.
- IN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS ED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
- E ACCESS DOORS WHERE REQUIRED TO MAINTAIN ACCESS TO DEVICES, ENT. JUNCTION BOXES ETC. COORDINATE AND TURN OVER TO GENERAL ACTOR FOR INSTALLATION. CONTRACTOR TO INSTALL WHERE NOT INATED PROPERLY WITH GENERAL CONTRACTOR.
- EQUIPMENT (INCLUDING MECHANICAL EQUIPMENT), EQUIPMENT NECTS/STARTERS AND PANELS WITH LAMACOID NAMEPLATES. PANEL ATE SHALL STATE PANEL DESIGNATION, VOLTAGE, AMPERAGE AND SOURCE DER. EQUIPMENT SHALL STATE PANEL AND CIRCUIT NUMBER. PROVIDE TYPED SCHEDULES IN ALL PANELS. CONFIRM WITH CONSULTANT IF UNCLEAR.
- ALL RECEPTACLES AND JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER. ACK MARKER ON CONCEALED JUNCTION BOXES AND CLEAR ADHESIVE LABELS ACK WRITING ON RECEPTACLES. PAINT ALL JUNCTION BOXES RED FOR FIRE
- NTRACTOR SHALL ARRANGE FOR FIELD REVIEWS BY THE CONSULTANT PRIOR INGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS FOR REVIEW AT THE DIRECTION OF THE CONSULTANT.
- RM TESTING OF ALL SYSTEMS AS REQUIRED BY CODE AND THE CONSULTANT. WITH START-UP AND COMMISSIONING OF ALL SYSTEMS AS REQUIRED.
- CT AND TRAIN THE OWNER ON PROPER OPERATION OF THE SYSTEM.
- OMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. ECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CT AND SIGN BACK THE INSPECTION REPORT INDICATED ALL DEFICIENCIES MPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT ES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE PECTION AND THE WORK IS NOT COMPLETE. THE CONTRACTOR IS SIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE DITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS
- E AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR FORMING THE NEXT FIELD REVIEW. E ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE
- STANTIAL COMPLETION.
- ESS DRAWS SHALL INCLUDE MINIMUM \$500.00 FOR MANUALS AND AS-BUILT IGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT IGS HAVE BEEN SUBMITTED AND APPROVED AND UNTIL ALL CONSULTANT EVIEW REPORTS HAVE BEEN SIGNED AND RETURNED TO CONSULTANT ALONG CTURES AS REQUESTED BY CONSULTANT.
- E ONE(1) ELECTRONIC COPY OF USB. CLOSE-OUT DOCUMENTATION ING CONTRACTOR INFORMATION, WARRANTY LETTER, ESA CERTIFICATE. FIRE VERIFICATION REPORT. EMERGENCY LIGHTING TEST REPORT, SHOP IGS, O&Ms, ANY OTHER REQUIRED REPORTS AND AS-BUILT DRAWINGS ING ALL PANEL SCHEDULES. AS-BUILT DRAWINGS SHALL INCLUDE <u>COMPLETE</u> RICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN
- E PRE-FABRICATED FIRE PROTECTION COVER FOR ALL CEILING LIGHT

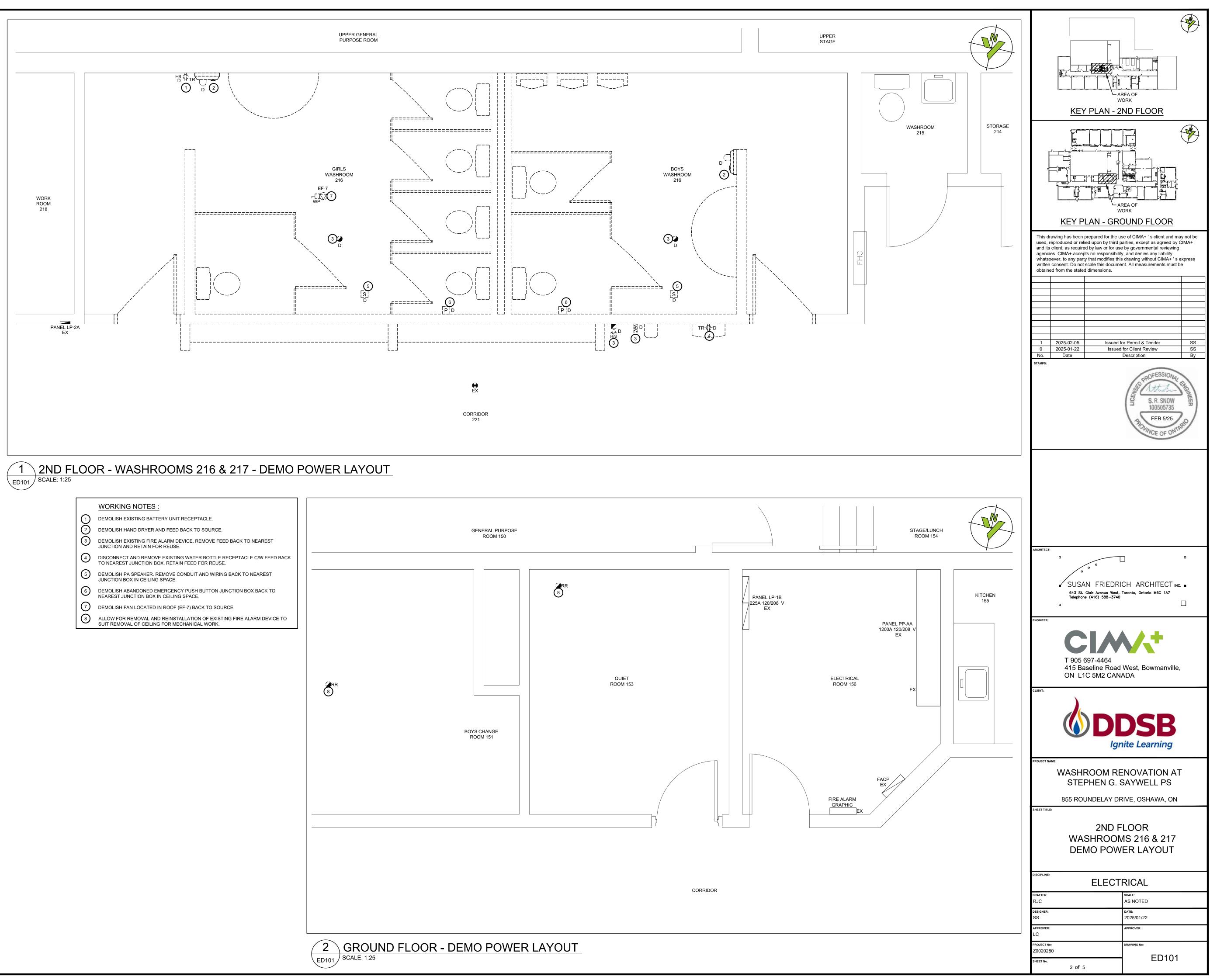
ELECTRICAL NOTES:

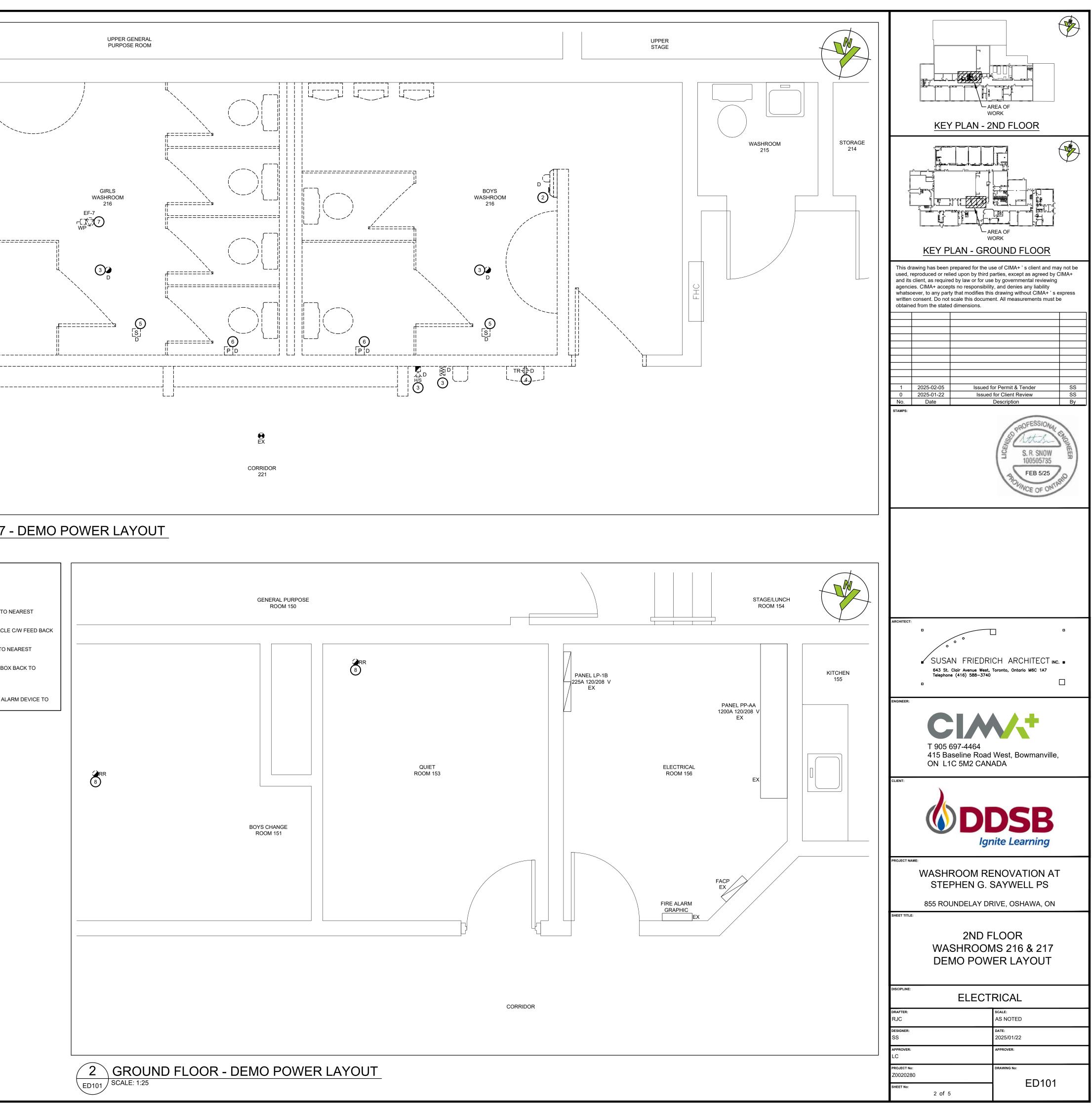
- ALL WORK SHALL CONFORM TO ESA REQUIREMENTS.
- PROVIDE CHAINS FOR ALL LIGHT FIXTURES. CHAINS SHALL BE PROVIDED AT ALL FOUR CORNERS.
- BOND ALL METALLIC WATER, DRAIN AND GAS PIPING AS PER ESA REQUIREMENTS.
- PROVIDE JUNCTION BOXES C/W COVER PLATES AS REQUIRED.
- 5. COORDINATE INSTALLATION WITH ALL OTHER TRADES. 6. REFER TO "EMT (ELECTRICAL METALLIC TUBING) vs. LIQUIDTIGHT vs. FLEXIBLE CABLE"
- FOR ACCEPTABLE USE OF EACH. EMT AND BOXES SHALL BE SIZED ACCORDING TO CODE REQUIREMENT BASED ON
- THE NUMBER OF CONDUCTORS. FOR EMT AND/OR CONDUITS BENDS GREATER THAN OR EQUAL TO 270°, A PULL BOX MUST BE PROVIDED.
- 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: BOXES SHALL BE SHALLOW WIRE MOLD BOX WITH NO KNOCKOUTS. CONDUIT SHALL BE WIRE MOLD. COLOUR TO BE WHITE.
- CONCEAL ALL EMT (ELECTRICAL METALLIC TUBING) AND COMPONENTS IN CEILING SPACE OR WALLS. RUN TIGHT TO ROOF DECK OR FLOOR ABOVE WHERE CEILING IS EXPOSED. RUN TIGHT TO WALL OR COLUMN WHERE WALLS ARE EXPOSED.
- 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 36" (900mm) A.F.F TO BOTTOM OF BOX AND 43"(1100mm) MAXIMUM A.F.F TO TOP OF BOX. UNLESS OTHERWISE NOTED.
- MOUNT NEW RECEPTACLES 16" (400mm) A.F.F. UNLESS OTHERWISE NOTED. 4. RECEPTACLES LOCATED WITHIN 5'(1.5m) OF A DAMP OR WET LOCATION SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
- 5. CONTRACTOR TO ALLOW FOR THE RELOCATION OF ANY RECEPTACLE OR DEVICE/EQUIPMENT CONNECTION WITHIN 10' OF LOCATION SHOWN AT NO EXTRA
- 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.
- BRANCH CIRCUIT BREAKER AMPERE INTERRUPTING CAPACITY TO MATCH BUS RATING. PROVIDE 10% SPARE FOR FUTURE.
- MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS TO BE 3%. CONDUCTORS SHALL BE OVERSIZED TO SUIT VOLTAGE DROP WHERE APPLICABLE.
- CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED. CONDUCTORS IN RACEWAYS SHALL BE T75 NYLON (T90 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.
- 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.
- 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. 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.

FIRE ALARM LEG

٢	HEAT DETECTOR FIXED TEMPERATURE [135°/200°]	Т
•	SMOKE DETECTOR C/W INDICATION LIGHT	
⊾ Қ‡ н/s '##' cd	COMBINATION HORN/STROBE. '##' DENOTES STROBE CANDELA RATING. PROVIDE 15cd UNLESS OTHERWISE NOTED.	
⊾ ¦. '##' cd	STROBE ONLY. '##' DENOTES STROBE CANDELA RATING. PROVIDE 15cd UNLESS OTHERWISE NOTED.	
W	END-OF-LINE RESISTOR (EOL)	

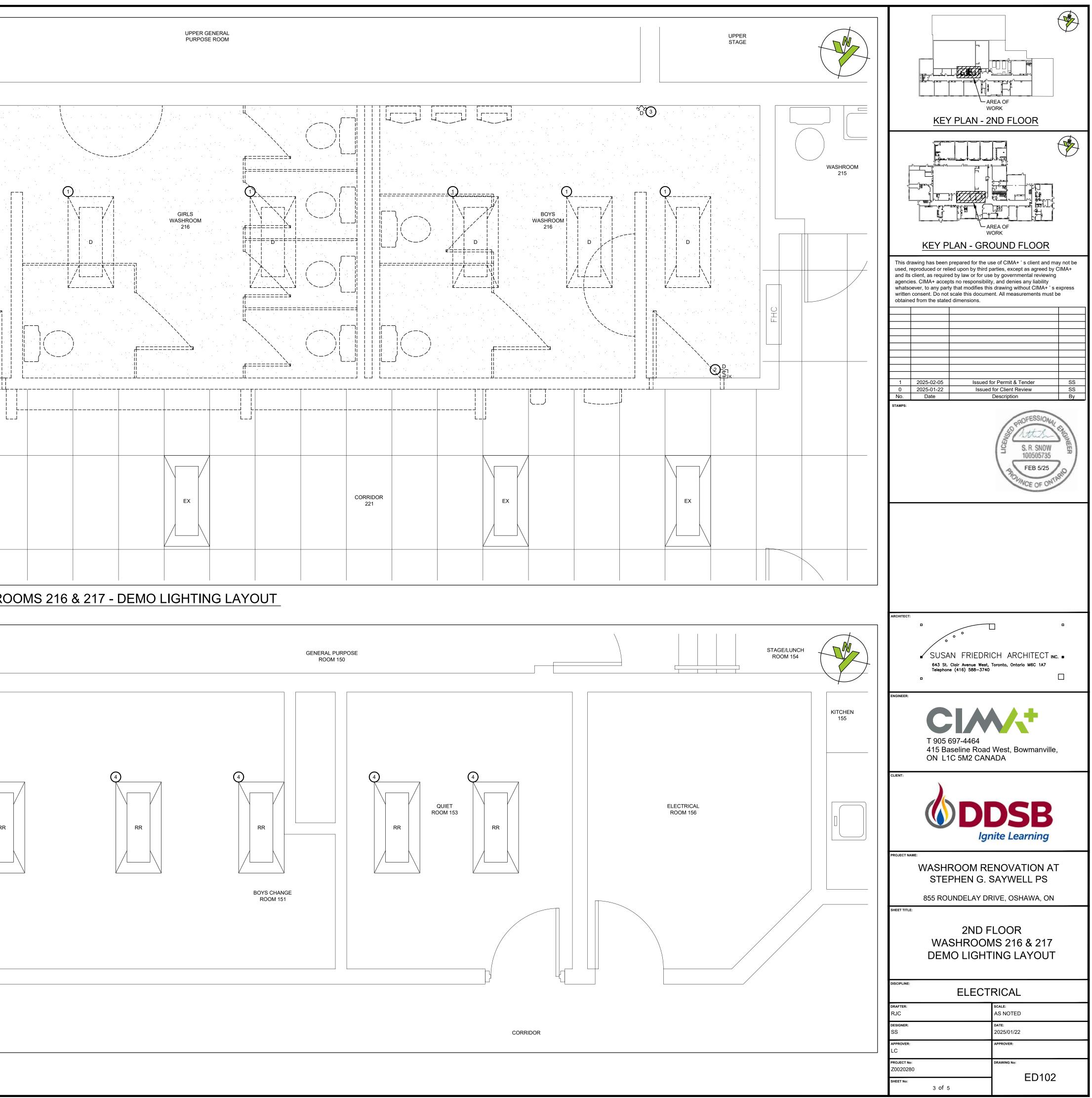
TAG	DESCRIPTION				MAKE / MODEL		ALTERNATE				
	EXISTING LU				EXISTING		N/A				
	LENS, 2-14W 120V.	V LED LAMPS	INAIRE, K12 0.125" PAT , 1 INSTANT START BAL	LAST, 4000K	TB24-248-120-K125						
۵ L1			I LIGHT, 2500lm, 30W, 40 EMP, 120V, WET LOCAT		LIGHTLINE LUNA 56 PRO RA56-33-F-90-WH-WH-NC						
\$K	KEY OPERA	TED LIGHT S	WITCH		EXISTING						
\$os		ATE MOUNTE TH BUTTON,	D PASSIVE INFRARED (WHITE, 120V	OCCUPANCY	LEVITON ODS10-IDW HUBBELL LEGRAND ACUITY CONTROLS						
	EMERGENCY LIGHTI				G SCHEDULE						
TAG	DESCRIPTIC	ON				MAKE / MODEL					
د BU-1	WHITE, REI PULSE-TYP	MOVABLE FR	ONT ACCESS PANEL, L , TEST SWITCH, LED IN	EAD ACID BATT	N RESISTANT, FACTORY ERY, SOLID STATE S, 120/347V INPUT WITH	EQUAL TO LUMAC	ELL RG12S360-1-LD7				
APPROVED ALTERNA	MOLDED II LENSES, S	MPACT RESIS	MOTE SINGLE HEAD 4W STANT FLAME RETARD R INSTALLATION ON 4" -LITE, AIMLITE, STAN PF	ANT THERMOPL OCTAGON BOX.		EQUAL TO LUMAC	ELL RSQBLD7	used, reproduced or reli and its client, as require agencies. CIMA+ accep	ed upon by third p d by law or for use ts no responsibilit	se of CIMA+ 's client and n parties, except as agreed by e by governmental reviewing y, and denies any liability	CIMA+ g
NOTE: 1. ## DENOTES BAT 2. 'DS' DENOTES DO 3. ALLOW 20% SAF 4. ALL UNITS TO BE 5. EMERGENCY LIG	TTERY UNIT. OUBLE SIDEE ETY ON BACI E CSA CERTIF GHTING LIGH ⁻	D. K-UP BATTER FIED. T LEVELS ARI	RY PACK SIZING. E TO BE TAKEN IN FOO	T CANDLES BY 1	THE CONTRACTOR AFTER F	ROJECT COMPLETI	ON. ADVISE	whatsoever, to any part written consent. Do not obtained from the stated	scale this docume	s drawing without CIMA+ ' s ent. All measurements must	be
CONSULTANT OF	TEST DATE	FOR WITNES	SS AND OWN READING		OWER LEGEND						
		TAG	DESCRIPTION			MAKE/MODEL					
		Фтг	15A 120V 1PH GROUN TAMPER RESISTANT		ECEPTACLE STEEL COVER PLATE	HUBBELL BR15W	HITR OR EQUAL	1 2025-02-05 0 2025-01-22 No. Date	Issued	or Permit & Tender for Client Review Description	SS SS By
		₩TR			IT INTERRUPTING DUPLEX W STAINLESS STEEL	HUBBELL GFTR1	5W OR EQUAL	STAMPS:		SP PROFESSIONA	- All
		() TR	20A 120V 1PH GROUN STEEL COVER PLATE		ECEPTACLE C/W STAINLES	CEPTACLE C/W STAINLESS HUBBELL BR20WHITR OR EQUAL				S. R. SNOW 100505735	ENGINEER
		\bigcirc	120V 1PH GROUNDED	D DIRECT EQUIP	MENT CONNECTION			FEB 5/25 TO THE OF OWNER			
		D	POWER DOOR OPERATOR BY GENERAL CONTRACTOR. F 120V POWER TO DOOR OPERATOR AND INTERLOCK WIR BETWEEN OPERATOR AND WALL PUSH BUTTON			Ξ		CE OF OT			
		EM	EMERGENCY CALL BI GENERAL WITH DOOI CONDUIT C/W PULL S SPACE.	R HARDWARE. P							
	-	L		ROVIDE BACK B	ALLED BY GENERAL WITH OX CONDUIT C/W PULL EILING SPACE.						
	-	Þ		RAL WITH DOOR	E. <u>SUPPLIED</u> AND HARDWARE. PROVIDE G TO DOOR CONTROLLER			ARCHITECT:			
		B	"PUSH TO OPEN" FOF CONTROL BY GENER CONDUIT UP WALL TO WIRING TO DOOR OP	AL CONTRACTO O DOOR OPERA	R. PROVIDE CONCEALED						
		JB	JUNCTION BOX						CH ARCHITECT IN Toronto, Ontario M6C 1A7	IC. ■	
			EXISTING PANEL					Telephone (416) 588-3740			
		æ	HAND DRYER UNIVER	ALUMINUM WHITE FINISH	WORLD DRYER	GLIMDRY L-974.	ENGINEER:				
BEND				COMMU	NICATIONS LEGEN	D					
ATURE [135°/200°]		TAG	DESCRIPTION			MAKE/MODEL					
ON LIGHT		S	CEILING MOUNTED P			VALCOM 9021		415 Ba	697-4464 Iseline Road C 5M2 CAN	West, Bowmanville	9,
" DENOTES STROBE UNLESS OTHERWISE		ES	CONTRACTOR TO PR		TRACTOR. ELECTRICAL						
OBE CANDELA RATIN	IG.		PANIC BUTTON				-ST				
SE NOTED.	L					VALCOM V-1072B-ST				DSB	
			EX			IS					
	-		D	EXISTING TO F		/WIRING BACK TO S	OURCE		Igr	nite Learning	
	ŀ		RL		BE RELOCATED. EXTEND FE					ENOVATION A	т
			H/L	HIGH LEVEL						SAYWELL PS	1
			WP	WEATHERPRC	OF			855 ROL	JNDELAY DF	RIVE, OSHAWA, ON	
			RI TR	ROUGH-IN ONI				SHEET TITLE:			
]	IFO	GENDS /	AND NOTES	
		TAG	DESCRIPTION	51/	ARTER LEGEND	MAKE/MODEL					
			DISCONNECT SWITCH	H 'WP' DENOTES	S WEATHERPROOF						
	-		MANUAL MOTOR STA			FRANKLIN BAS-1	P				
	L					1]	drafter: RJC		scale: NTS	
								designer: SS		date: 2025/01/22	
								approver: SS		APPROVER:	
								PROJECT No: Z0020280		DRAWING No:	
					SHEET No: 1 of 5		E-001				





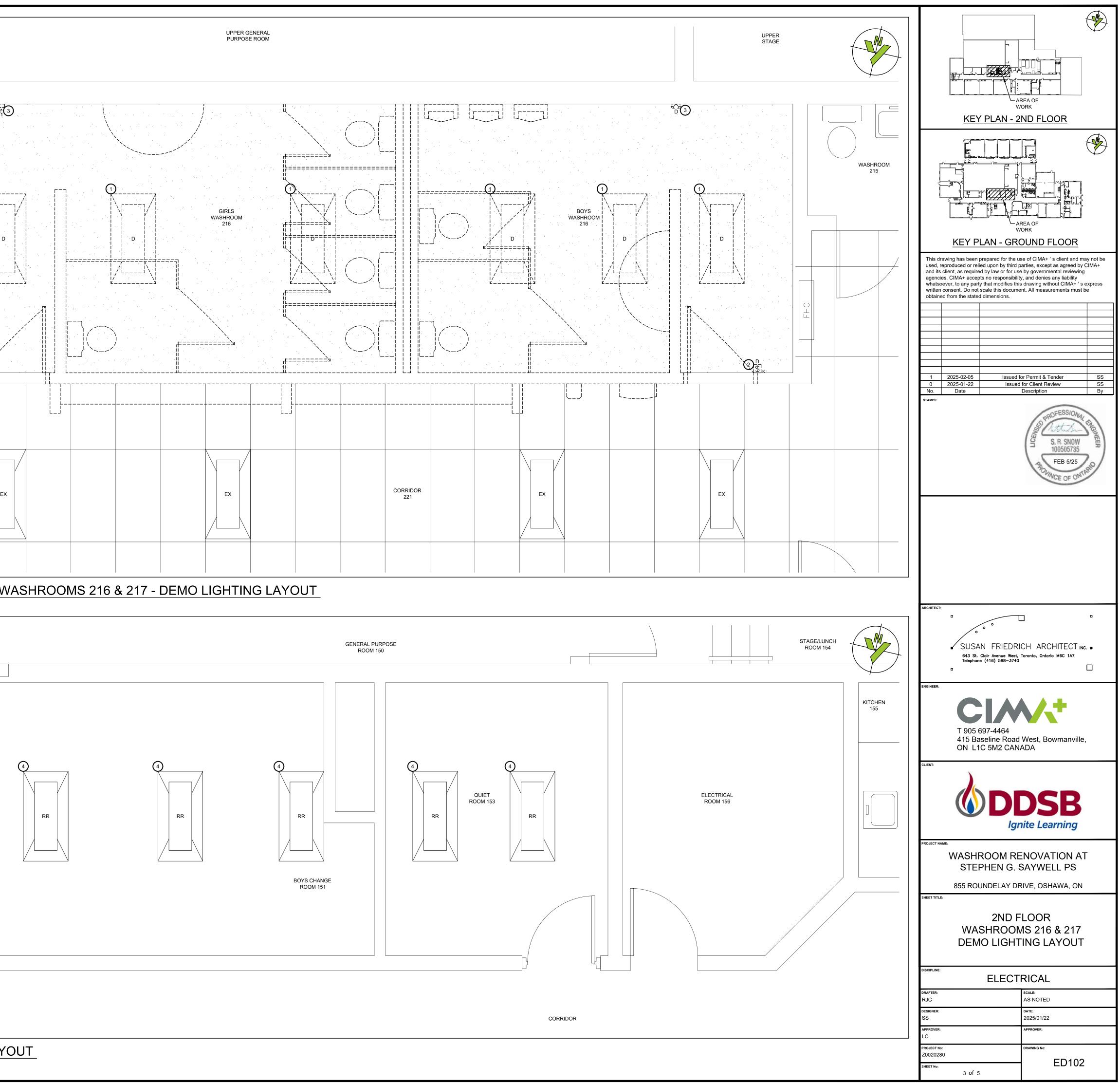


 (1) (2) (3) (4) 	WORKING NOTES: EXISTING RECESSED 2X4 LUMINAIRE TO BE DE NEAR JUNCTION BOX AND MAKE SAFE. RETAIN DISPOSE OF PROPERLY EXISTING KEY OPERATED LIGHT SWITCH TO BI TO SOURCE. PROVIDE STAINLESS STEEL COVI EXISTING EMERGENCY LIGHTING TO BE DEMO ALL WIRING FOR REMOTE HEADS IN WASHROO ADJACENT HALLWAY AND SPACES FOR RECOM REMOVE EXISTING LUMINAIRE TO SUIT ABOVE FOR INSTALLATION IN THE SAME POSITION. CO MECHANICAL PRIOR TO STARTING WORK.	FOR REUSE WITH NEW LAYOUT. E DEMOLISHED. REMOVE WIRING BACK ER PLATE FOR EXISTING BACK BOX. LISHED. CONTRACTOR TO DEMOLISH DMS, AND RETAIN CIRCUITS SERVICING INECTION ONTO NEW BATTERY UNIT. CEILING MECHANICAL WORK, ALLOW		DL
			WORK ROOM 218	
			1 2N ED102 SCALE	DFLOOR - WASI
				FHC 4

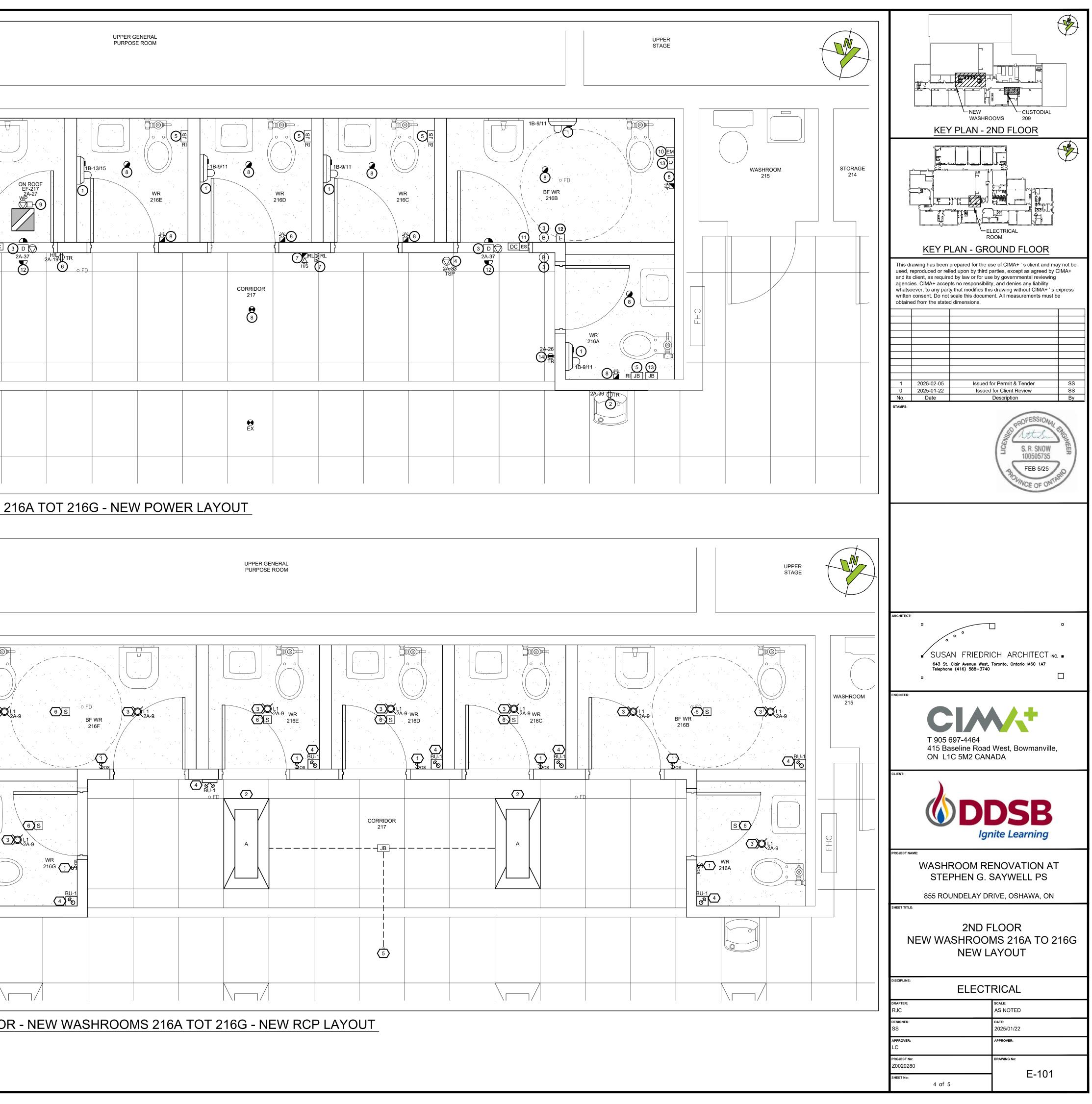


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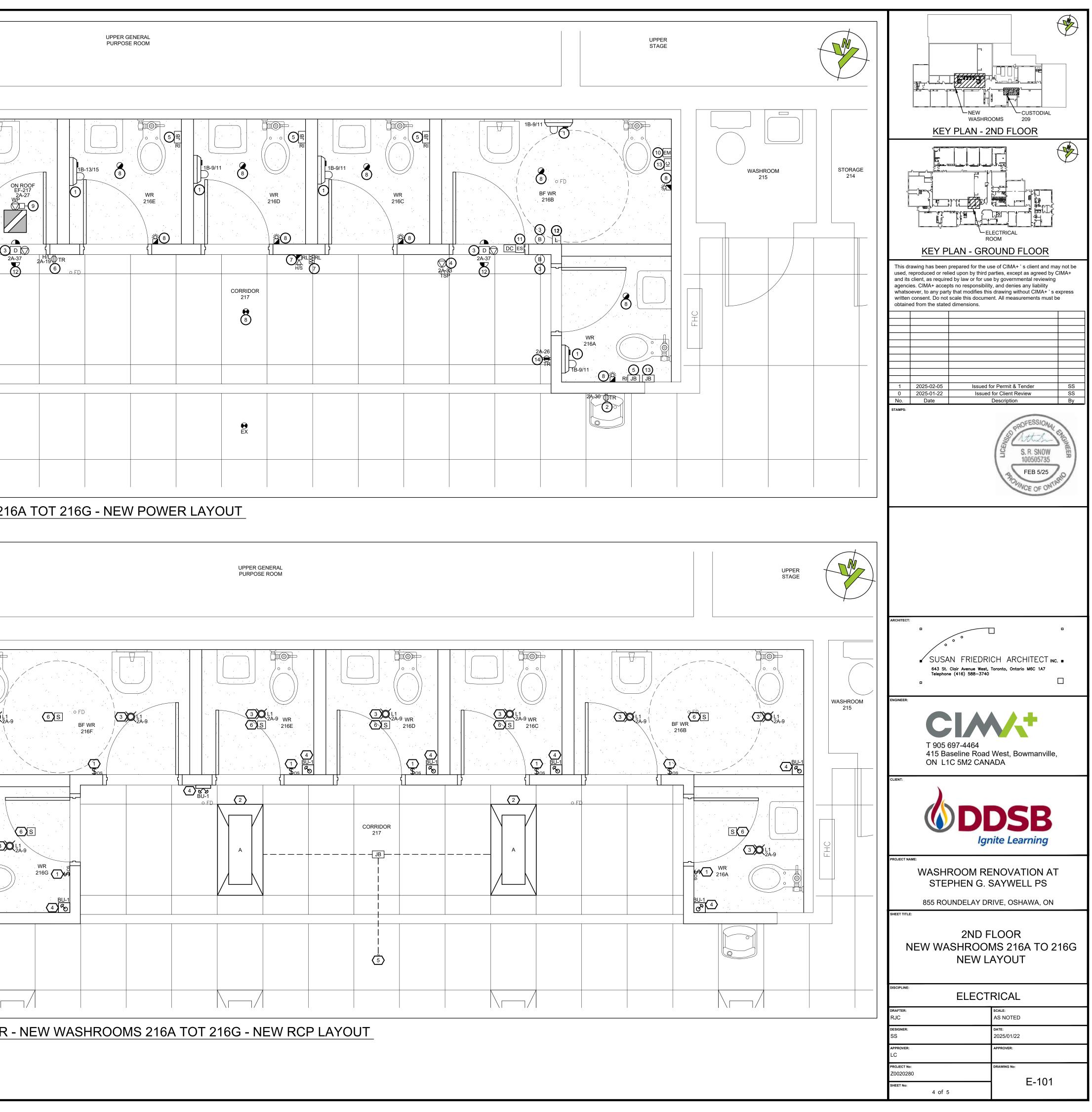
2 GROUND FLOOR - LIGHTING LAYOUT SCALE: 1:25

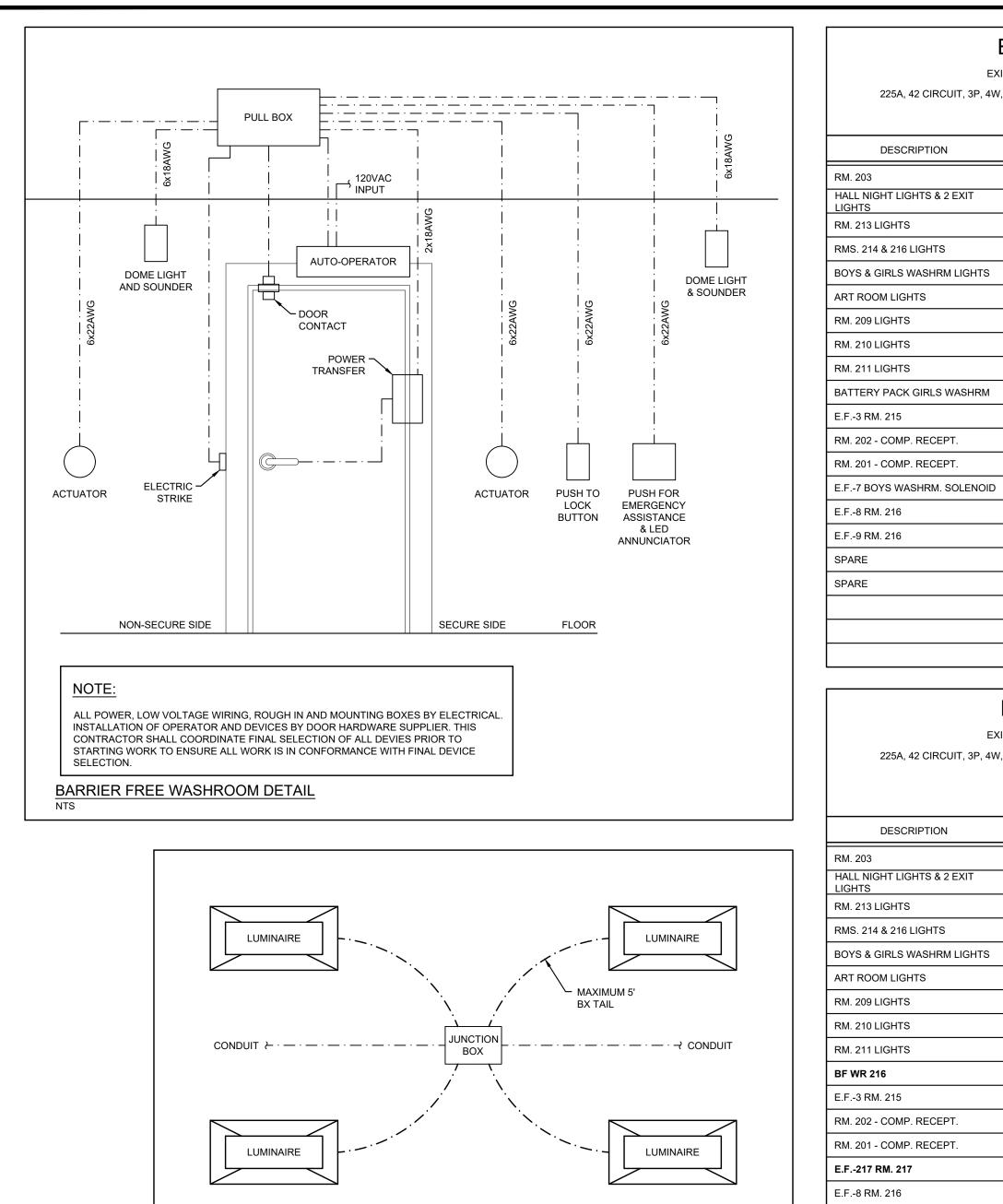


	WASHROOMS NEW POWER WORKING NOTES:		
	PROVIDE AND INSTALL NEW HAND DRYER C/W 208V DIRECT CONNECTION.		
	EXISTING FOUNTAIN ELECTRICAL FEED TO BE RELOCATED, EXTEND CONDUIT AND		
(3)	WIRING TO SUIT NEW LOCATION. PROVIDE NEW RECEPTACLE AS INDICATED. PROVIDE AND INSTALL NEW AUTOMATIC DOOR OPERATORS C/W PUSH BUTTONS.		
	SEE DETAILS. 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 <u>FUTURE INTERCOM</u> . PROVIDE STAINLESS STEEL COVER PLATE FOR BACK BOXES.		
6	PROVIDE NEW TAMPER RESISTANT RECEPTACLE AT HIGH LEVEL FOR NEW BATTERY		o o 1B-13/15 Û
	UNIT. 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.		BF WR 216F
	PROVIDE DOUBLE GANG ROUGH IN FOR NEW EMERGENCY ASSISTANCE BUTTON C/W INDICATOR LAMP BACK TO DOOR HARDWARE CONTROLLER. SEE DETAILS.		
	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	WORK ROOM 218	
(13)	DOORS. SEE DETAILS. PROVIDE RECESSED INTERCOM IN 4"X4" BACK BOX C/W 1/2" CONDUIT TO CEILING		
	SPACE. SEE LEGEND. 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.		WR 216G
2	PROVIDE NEW DISCONNECT RATED MANUAL STARTER TO SUIT NEW EXHAUST FANS		
	AS INDICATED. PERMANENTLY TAG ALL EQUIPMENT.		
$\left(1 \right)$	NEW RCP WORKING NOTES: PROVIDE AND INSTALL NEW OCCUPANCY SENSOR SWITCH TO CONTROL LOCAL	PANEL LP-2A	
$\langle 2 \rangle$	LIGHTING. PROVIDE AND INSTALL NEW RECESSED 2X4 LUMINAIRE. PROVIDE TENMAT FF130	EX	
	PREFABRICATED PROTECTION COVER TO MAINTAIN FIRE SEPARATION OF CEILING.		
	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.		
	CONNECTION IS TO OFFICE ONET. ALL WIRING TO BE CONCEALED.	E-101 SCALE: 1:25	R - NEW WASHROOMS 2
	Custodial 209	2 EF-217 2 EF-209	
			BU-1 3 (4)
			WORK ROOM 218
1		1	
	ND FLOOR - CUSTODIAL ROOM 209 -	NEW POWER LAYO	
E-101 S	CALE: 1:25		
			PANEL 1P-20
			PANEL LP-2A EX
			3 2ND FLOO E-101 SCALE: 1:25



216A TOT 216G - NEW POWER LAYOUT





LUMINAIRE WIRING DETAIL

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

 BKR	ССТ	S/N ─■─			ССТ	BKR	DESCRIPTION
15A	1				2	15A	4-RECEPTACLES RM. 213
15A	3	H	-	Ŧ	4	15A	3-RECEPT. RMS. 214 & 215
20A	5			•	6	15A	3-RECEPT. RM. 216 & EAST HALL FRENCH RM.
15A	7	-			8	15A	COUNTER RECEPT. ART RM.
15A	9		-		10	15A	ART ROOM VENT FAN
15A	11			+	12	15A	KILN ART ROOM
20A	13	-			14	15A	KILN ART ROOM
20A	15		-		16	15A	3-RECEPT. ART ROOM
20A	17			+	18	15A	4-RECEPT. ART ROOM
15A	19	-			20	15A	4-RECEPT. RM 210
15A	21		-	+	22	15A	4-RECEPT. RM. 211
15A	23			+	24	15A	HAND DRYER BOYS WASHRM.
15A	25	-			26	15A	HAND DRYER GIRLS WASHRM.
15A	27		-	+	28	15A	RM. 206
15A	29			+	30	15A	WATER BOTTLE FILLER
15A	31	-	•		32	15A	ART RM COMP. RECEPT.
15A	33		-	-	34	15A	RM. 208 - COMP. RECEPT.
15A	35			+	36	15A	1.G. RECEPT. FOR COMP. HUB
	37	H			38	15A	R. 204 - COMP. RECEPT.
	39		-	+	40	15A	MUSIC RM COMP. RECEPT.
	41			•	42	15A	WORK RM. B - COMP. RECEPT.

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

++ DENOTES NEW BREAKER REQUIRED

DESCRIPTION	BKR	сст		/N	сст	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	\square	•	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	\square	•	12	15A	KILN ART ROOM
RM. 209 LIGHTS	20A	13	┝┿		- 14	15A	KILN ART ROOM
RM. 210 LIGHTS	20A	15	H		16	15A	3-RECEPT. ART ROOM
RM. 211 LIGHTS	20A	17	\vdash	•	18	15A	4-RECEPT. ART ROOM
BF WR 216	15A	19	┝		20	15A	4-RECEPT. RM 210
E.F3 RM. 215	15A	21			22	15A	4-RECEPT. RM. 211
RM. 202 - COMP. RECEPT.	15A	23	H	ł	24	15A	SPARE
RM. 201 - COMP. RECEPT.	15A	25	┝		26	20A++*	RECEPTACLE CORRIDOR 217
E.F217 RM. 217	15A	27	H		28	15A	RM. 206
E.F8 RM. 216	15A	29	\mathbb{H}	ł	- 30	15A	WATER BOTTLE FILLER
E.F9 RM. 216	15A	31	┝		32	15A	ART RM COMP. RECEPT.
TRAP SEAL PRIMER CORRIDOR 217	15A	33	\square		34	15A	RM. 208 - COMP. RECEPT.
E.F209 RM. 209	15A	35	\square	•	36	15A	1.G. RECEPT. FOR COMP. HUB
BF WR 216A & 216F ADO	20A++	37	┝┿		- 38	15A	R. 204 - COMP. RECEPT.
		39	\square		40	15A	MUSIC RM COMP. RECEPT.
		41	\square	ł	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

+ DENOT	ES MISILABELED (
DESCRIPTION	BKR	сст	S7N	сст	BKR	DESCRIPTION	DESCRIPTION
OUTSIDE SIGN	15A	1		2	15A+	UNKNOWN	GYM EXIT LIGHTS
OUTSIDE SIGN	15A	3	┝┼┿┤	4	15A+	UNKNOWN	GYM LIGHTS (EAST H.P.S.), CENTRE LIGHTS
	004.	5		6		UNKNOWN	STAFFROOM MICROWAVE
UNKNOWN	20A+	7	┝╋┼┤	- 8	30A+		GYM LIGHTS, 135 (EAST FLR.), OUTER LIGHTS
		9	┝┼┿┤	10			WEST FLR. CENTRE LIGHT
		11		12			GYM W, BACKSIDE
		13	•	- 14			GYM LIGHTS (WAST H.P.S.), OUTSIDE LIGHTS
		15	┝┼┿┤	- 16			RM. 102 - GFI
		17	┝┼┼┩	18			RM. 127 LIGHTS (EAST FLR.)
		19	•	20			RM. 127 LIGHTS (WEST FLR.)
		21		22			BOYS CHANGE RM. LIGHTS
		23		- 24			GIRLS CHANGE RM. LIGHTS
		25		26			BATTERY PACK - ELECTRICAL
		27		- 28			TELEPHONE RECEPTACLE + SECURITY PANEL
		29	┝┼┼┥	- 30			T.V. RECEPTACLE
		31	•	32			
		33		- 34			STAGE TRACK LIGHTS
		35		- 36			
		37		- 38			RM. 103 COMPUTERS/WATER RN. REFILL STATION
		39		40			RM. 104 COMPUTERS
		41		42			RM. 101 GFI

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							
DESCRIPTION	BKR	сст	S7N 	сст	BKR	DESCRIPTION	DESCRIPTION
OUTSIDE SIGN	15A	1	•	2	15A+	UNKNOWN	GYM EXIT LIGHTS
OUTSIDE SIGN	15A	3		4	15A+	UNKNOWN	GYM LIGHTS (EAST H.P.S.), CENTRE LIGHTS
UNKNOWN	20A+	5	┝┼┼┿	6			STAFFROOM MICROWAVE
UNNNOWN	20A+	7	+++	8	3 30A+ UNKNOWN	GYM LIGHTS, 135 (EAST FLR.), OUTER LIGHTS	
HAND DRYERS	20A++*	9	┝┼┿┼╴	10			WEST FLR. CENTRE LIGHT
WASHROOM 216A,B,C,D	2P	/11	┝┼┼┿	12			GYM W, BACKSIDE
HAND DRYERS	20A++*	13	┝╋┼┼	14			GYM LIGHTS (WAST H.P.S.), OUTSIDE LIGHTS
WASHROOM 216E,F,G	2P	15	┝┼┿┼	16			RM. 102 - GFI
		17	┝┼┼┿	18			RM. 127 LIGHTS (EAST FLR.)
		19	┥	20			RM. 127 LIGHTS (WEST FLR.)
		21	┝┼┿┼	22			BOYS CHANGE RM. LIGHTS
		23	┝┼┼┿	24			GIRLS CHANGE RM. LIGHTS
		25	+	26			BATTERY PACK - ELECTRICAL
		27		28			TELEPHONE RECEPTACLE + SECURITY PANEL
		29	┝┼┼┿	30			T.V. RECEPTACLE
		31	┥	32			
		33	┝┼┿┼╴	34			STAGE TRACK LIGHTS
		35	┝┼┼┿	36			
		37		38			RM. 103 COMPUTERS/WATER RN. REFILL STATION
		39		40			RM. 104 COMPUTERS
		41	┝┼┼┿	42			RM. 101 GFI

EXISTIN								UBLE TUB	
		SURFAC	CE	мо	U		OLT-ON C	IRCUIT BREAKER PANEL BOARD	
v	VITH MAIN I	LUGS O	NL	Y &	C	OPPER	BUS, 25 k		
DESCRIPTION	BKR	сст		S/N		сст	BKR		
EXIT LIGHTS LIGHTS (EAST H.P.S.),	15A	43	╞	┝┼		44	15A	4 RECEPTACLES RMS 135, 136, GYM S/E EXIT	
TRE LIGHTS	15A 15A	45			•	46 48	15A 15A	4-RECEPTACLES GYM 3-RECEPTACLES GYM + STAGE	
LIGHTS, 135 (EAST FLR.), ER LIGHTS	15A	49	H	┝┼		50	15A	4-RECEPTACLES STAGE	
T FLR. CENTRE LIGHT	15A	51				52	15A	GYM P.A. RACK	
W, BACKSIDE LIGHTS (WAST H.P.S.),	15A	53	╞		•	54	15A	2 RECEPTACLES BOY + GIRL CHANGE RMS	
SIDE LIGHTS	15A 15A	55 57	ſ			56 58	15A	1 RECEPTACLE RM. 129	
27 LIGHTS (EAST FLR.)	20A	59	_		┝	60	15A	COUNTER RECEPTACLE RM. 129	
27 LIGHTS (WEST FLR.)	15A	61	-		Ē	62	15A	E.F10 LIGHTS RM 129	
S CHANGE RM. LIGHTS	15A	63	_	┼╇	$\frac{1}{1}$	64	15A	RECEPTACLE ELECTRICAL RM.	
S CHANGE RM. LIGHTS	15A 15A	65 67				66 68	70A	MOTORIZED PARTITION GYM	
PHONE RECEPTACLE + JRITY PANEL	15A	69	_		+	70			This drawing has been
RECEPTACLE	15A	71			•	72	15A	GYM EAST BACK STOP	used, reproduced or re and its client, as requi agencies. CIMA+ acce
		73	╞	┝┼	╞	74	-		whatsoever, to any pa written consent. Do no obtained from the stat
GE TRACK LIGHTS	15A	75				76	15A	CARMA	
103 COMPUTERS/WATER REFILL STATION	15A	77 79	╞	↓	ſ	78 80	15A	SCOREBOARD	
104 COMPUTERS	15A	81	╞	┟╋	ţ	82	15A	HALL RECEPTACLE	
101 GFI	15A	83	╞		•	84	15A	LIGHTS + RECEPTACLE, ELEVATOR PIT	
					_				
REVISE								JBLE TUB	1 2025-02-05 0 2025-01-22
2254 84 CIRCUIT 3P 4W 120	EXISTING							A IRCUIT BREAKER PANEL BOARD	No. Date
	VITH MAIN I								
DESCRIPTION	BKR	сст		S/N		сст	BKR	DESCRIPTION	
EXIT LIGHTS	15A	43	-	∳┤		44	15A	4 RECEPTACLES RMS 135, 136, GYM S/E EXIT	
LIGHTS (EAST H.P.S.), IRE LIGHTS	15A	45				46	15A	4-RECEPTACLES GYM	
FROOM MICROWAVE LIGHTS, 135 (EAST FLR.),	15A	47			•	48	15A	3-RECEPTACLES GYM + STAGE	
ER LIGHTS "	15A 15A	49 51				50 52	15A 15A	4-RECEPTACLES STAGE GYM P.A. RACK	
W, BACKSIDE	15A	53		H	┝	54	15A	2 RECEPTACLES BOY + GIRL	
LIGHTS (WAST H.P.S.), SIDE LIGHTS	15A	55	H	┝┼		56	15A	CHANGE RMS 1 RECEPTACLE RM. 129	
02 - GFI	15A	57	_			58	15A	COUNTER RECEPTACLE RM. 129	
27 LIGHTS (EAST FLR.)	20A	59			∳	60			
27 LIGHTS (WEST FLR.)	15A 15A	61 63				62 64	15A 15A	E.F10 LIGHTS RM 129 RECEPTACLE ELECTRICAL RM.	
S CHANGE RM. LIGHTS	15A 15A	65			•	66	15A	RECEPTACLE ELECTRICAL RM.	
ERY PACK - ELECTRICAL RM.	15A	67	┝	•	+	68	70A	MOTORIZED PARTITION GYM	ARCHITECT:
PHONE RECEPTACLE + JRITY PANEL	15A	69	-	ł		70	-		D
RECEPTACLE	15A	71	_		•	72	15A	GYM EAST BACK STOP	
	454	73	ŀ	●┼	╞	74	450	045144	✔ SUS 643 S
GE TRACK LIGHTS	15A	75				76 78	15A	CARMA	Telepho
103 COMPUTERS/WATER REFILL STATION	15A	79	-	●		80	15A	SCOREBOARD	
04 COMPUTERS	15A	81	_	╎┿		82	15A	HALL RECEPTACLE	ENGINEER:
01 GFI	15A	83			•	84	15A	LIGHTS + RECEPTACLE, ELEVATOR PIT	
									T OOF
									T 905 415 B
									ON L
									CLIENT:
									<u>v</u>
									PROJECT NAME:
									WASH
									STE
									855 RC
									SHEET TITLE:
									PANEL
									DISCIPLINE:
									DRAFTER:
									RJC designer:
									SS
									approver: LC
									PROJECT No: Z0020280
									SHEET No:

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> DATE: 2025/01/22 APPROVER:

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