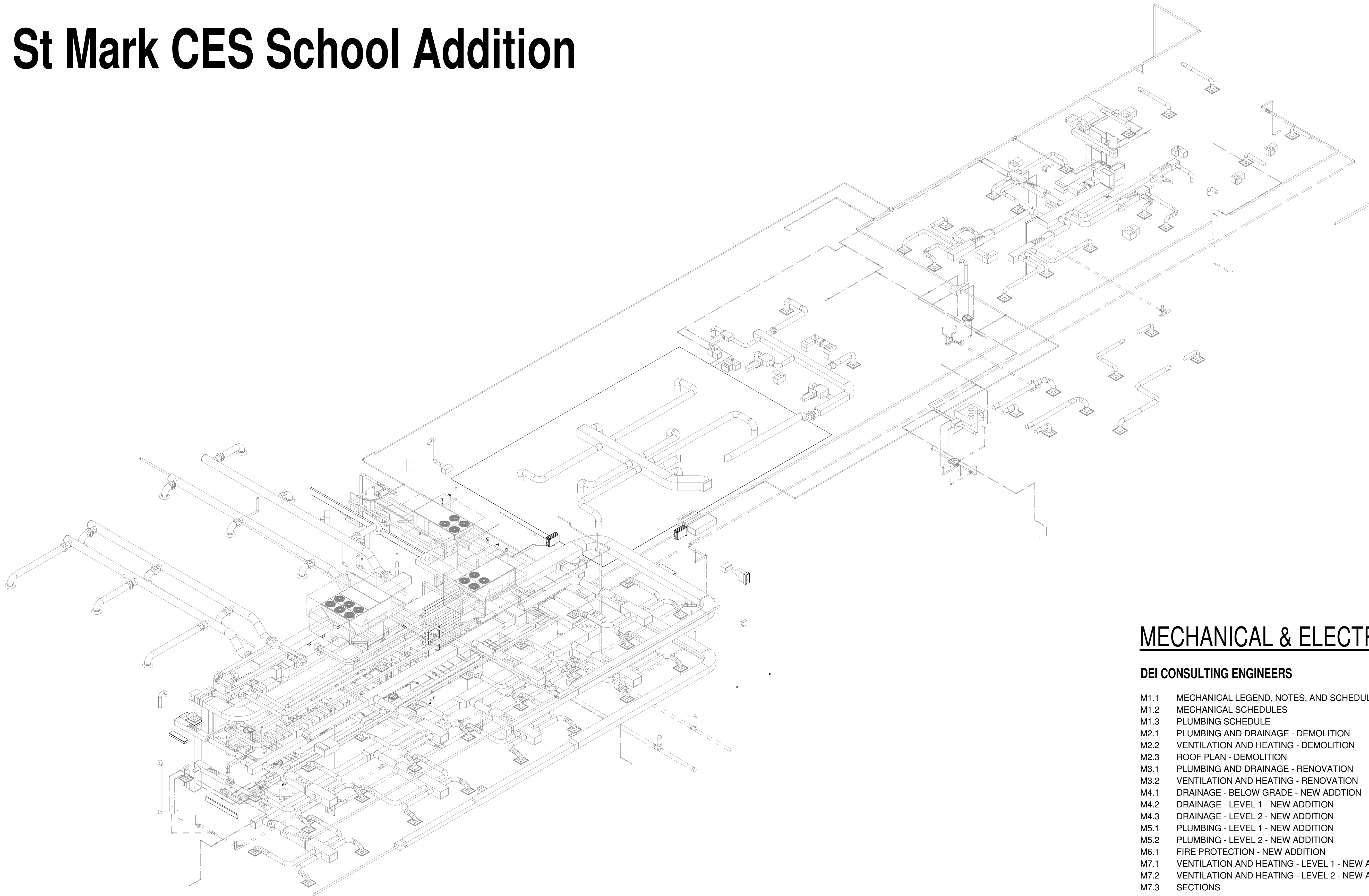


# St Mark CES School Addition



## MECHANICAL & ELECTRICAL

### DEI CONSULTING ENGINEERS

- M1.1 MECHANICAL LEGEND, NOTES, AND SCHEDULES
- M1.2 MECHANICAL SCHEDULES
- M1.3 PLUMBING SCHEDULE
- M2.1 PLUMBING AND DRAINAGE - DEMOLITION
- M2.2 VENTILATION AND HEATING - DEMOLITION
- M2.3 ROOF PLAN - DEMOLITION
- M3.1 PLUMBING AND DRAINAGE - RENOVATION
- M3.2 VENTILATION AND HEATING - RENOVATION
- M4.1 DRAINAGE - BELOW GRADE - NEW ADDITION
- M4.2 DRAINAGE - LEVEL 1 - NEW ADDITION
- M4.3 DRAINAGE - LEVEL 2 - NEW ADDITION
- M5.1 PLUMBING - LEVEL 1 - NEW ADDITION
- M5.2 PLUMBING - LEVEL 2 - NEW ADDITION
- M6.1 FIRE PROTECTION - NEW ADDITION
- M7.1 VENTILATION AND HEATING - LEVEL 1 - NEW ADDITION
- M7.2 VENTILATION AND HEATING - LEVEL 2 - NEW ADDITION
- M7.3 SECTIONS
- M8.1 ROOF PLAN - NEW ADDITION
- M9.1 MECHANICAL DETAILS
- M9.2 MECHANICAL DETAILS & SCHEMATIC

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3	2025.08.29	90% Client Review
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All drawing and specifications are the property of the Architect. The Contractor shall verify all dimensions and information on site and report any discrepancy to Architect before proceeding.

### St. Mark CES Addition

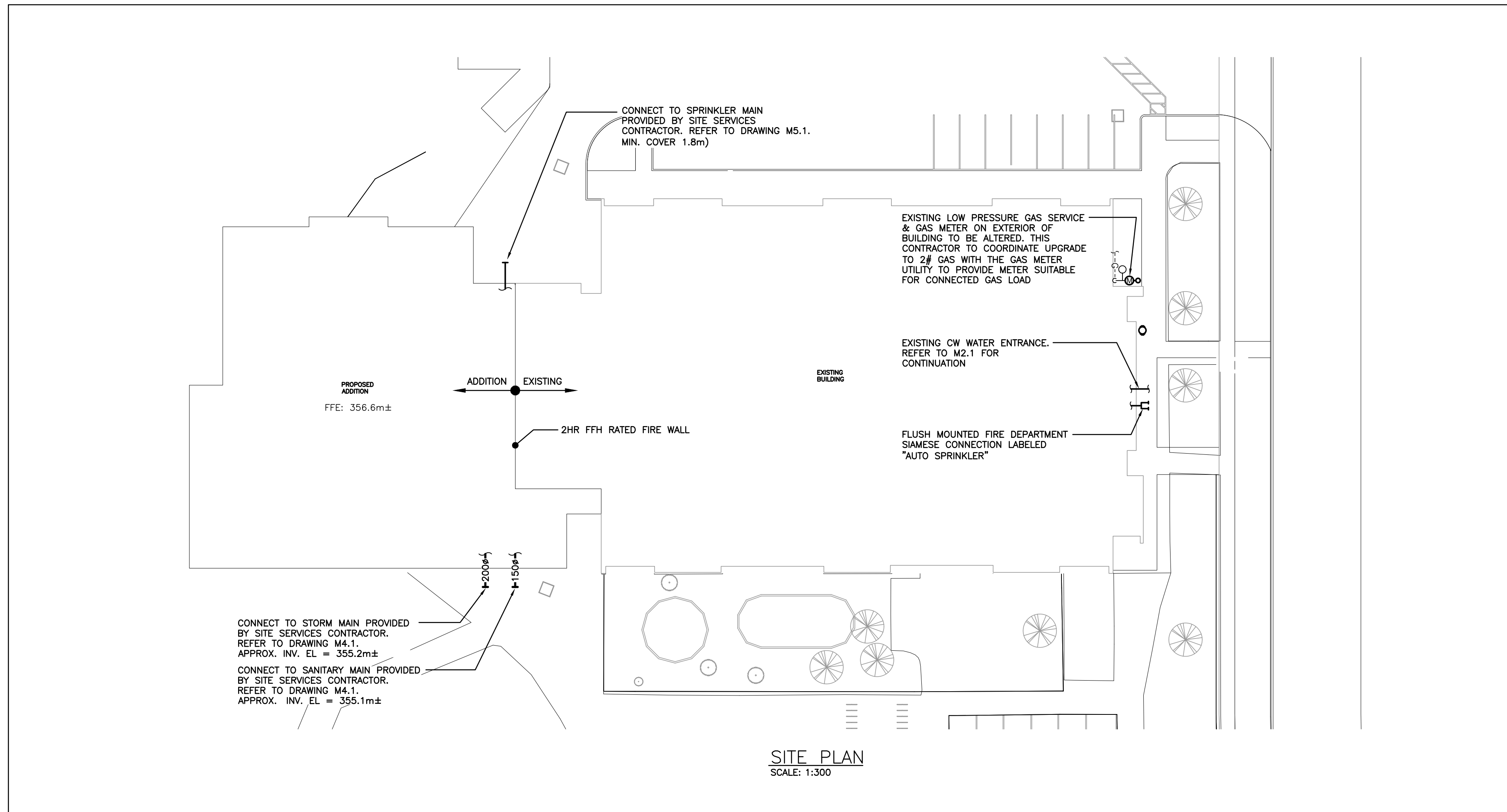
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### COVER SHEET MECHANICAL / PLUMBING / ELECTRICAL

scale:  
 drawn by: AH  
 reviewed by: GGCS  
 job number: 25027  
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**SITE PLAN**  
SCALE: 1:300

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

Item	Type	Nominal Capacity				ESP (in wc)	Motor (hp)	Cooling				Heating			Electrical Data			Acceptable Manufacturer & Model	Remarks	
		tons	Maximum Occupied Outdoor Air %	Supply Air (cfm)	HP COP @ 47°F			HP COP @ 17°F	Total Cap. (MBH)	Sens. Cap. (MBH)	EAT db/wb (°F)	LAT db/wb (°F)	High Gas Input (MBH)	HP Output @ 47°F (MBH)	HP Output @ 17°F (MBH)	Voltage	MCA			MOCP
HVAC-3	PACKAGED ROOFTOP HVAC UNIT (1ST FLOOR CLASSROOMS)	12.5	40%	5000	3.4	2.1	1.2	3.8	133.0	99.3	75/63	53.8/52.4	240	128	73	575/3/60	25	30	LENNOX LDT152H5EM2J	HIGH HEAT, DOWN DISCHARGE & RETURN, POWER EXHAUST.
HVAC-4	PACKAGED ROOFTOP HVAC UNIT (2ND FLOOR CLASSROOMS)	12.5	40%	5000	3.4	2.1	1.2	3.8	133.0	99.3	75/63	53.8/52.4	240	128	73	575/3/60	25	30	LENNOX LDT152H5EM2J	HIGH HEAT, DOWN DISCHARGE & RETURN, POWER EXHAUST.
HVAC-5	PACKAGED ROOFTOP HVAC UNIT (GYM)	15	25%	6000	3.4	2.1	1.2	5.0	174.0	137.5	75/63	53/52.6	260	174	96	575/3/60	34	40	LENNOX LDT180H5MM1J	HIGH HEAT, DOWN DISCHARGE & RETURN, POWER EXHAUST.

**GENERAL PACKAGED HEAT PUMP HVAC UNIT SCHEDULE NOTES:**

- ACCEPTABLE MANUFACTURERS: LENNOX, DAIKIN, AAO, JOHNSON/YORK.
- UNITS HAVE SCROLL COMPRESSOR, UNITS HAVE UP TO 2 STAGE NATURAL GAS HEAT (UP TO 4 STAGES ON 13 TON AND LARGER), 2 STAGE DX COOLING PLUS ECONOMIZER (3 STAGE ON 7.5 TON UNITS AND LARGER), DIRECT DRIVE PLENUM FANS (BELT DRIVE ON UNITS 13 TONS AND GREATER).
- PROVIDE STANDARD INSULATED 24" HIGH ROOF CURB, CONDENSER COIL GUARD, POWER EXHAUST ON UNITS 7.5 TONS AND LARGER, ECONOMIZER, AND ALL HOODS & INLET SCREENS, STAINLESS STEEL GAS HEAT EXCHANGER, STAINLESS STEEL FLUE GAS EXTENSION, DEHUMIDIFICATION PACKAGE WHERE INDICATED, 2 SETS OF MERV 13 DISPOSABLE FILTERS AND REFRIGERATION LEAK DETECTION SYSTEM. CONTRACTOR TO PROVIDE NEW ISOLATION RAIL FOR ALL UNITS.
- CONTROLS: SYSTEM CONTROLS BY BAS CONTRACTOR, PROVIDE INTEGRAL CONTROLLER MATCHED TO BAS MANUFACTURER.
- CONTROLS: 7-DAY PROGRAMMABLE THERMOSTAT AND LOCKING COVER.

**GENERAL NOTES**

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- THIS CONTRACTOR SHALL TRACK REVISIONS ON SITE AND SUBMIT AS-BUILTS TO CONSULTANT TO DIGITIZE.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14"-0" FROM ANY AIR INLET (25"-0" FOR LONG TERM CARE/HOSPITALS). INSTALL VENT PIPING HIGH IN JOIST SPACE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- REFER TO PLUMBING SCHEDULE FOR ALL FIXTURE BRANCH SIZING.
- ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWSJ.
- CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWSJ BRIDGING/CROSS BRACING RELOCATION OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.
- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT GRILLE/DIFFUSER LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
  - POTABLE WATER TEST (SEE SPEC 22 11 16 PART 3)
  - BACKFLOW TEST CERTIFICATE(S) FOR ALL TESTABLE DEVICES
  - COPY OF MANDATORY TSSA/CSA-B149 GAS PRESSURE TEST TAG
  - NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE
  - NFPA-13 FIRE PROTECTION BYPASS FLOW TEST
  - FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER
  - LETTER FROM CONTRACTOR VERIFYING THAT ALL REFRIGERATION LEAK DETECTION SYSTEMS AND THEIR INTERLOCKS TO DOWNSTREAM DEVICES HAVE BEEN INSTALLED AND TESTED.
- ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

**MECHANICAL LEGEND**

Item	Description	Item	Description
-----	ITEM TO BE REMOVED	— —	BUTTERFLY VALVE
— —	CUT EXISTING & CONNECT NEW PIPING	— —	VALVE ON RISER
→	FLOW DIRECTION	—BV	BALANCING VALVE
— —	POTABLE COLD WATER	—FEC	RECESSED CABINET MOUNTED FIRE EXTINGUISHER
— —	POTABLE HOT WATER	—FE	WALL MOUNTED FIRE EXTINGUISHER
— —	POTABLE HOT WATER RECIRC.	—FB	FIRE BLANKET IN CABINET MOUNTED ON WALL
—SAN-EX—	EXISTING SAN ABOVE FLOOR	— —	WATER METER
—SAN-EX—	EXISTING SAN BELOW FLOOR	—CO	FLOOR CLEANOUT
—SAN—	SANITARY ABOVE FLOOR	— CO	LINE CLEANOUT
—SAN—	SANITARY BELOW FLOOR	—PRV	PRESSURE REDUCING VALVE
—STM-EX—	EXISTING STM ABOVE FLOOR	— —	THERMOSTAT (WITH GUARD WHERE INDICATED)
—STM-EX—	EXISTING STM BELOW FLOOR	— —	THERMOSTAT (CONCEALED SENSOR)
—STM—	STORM ABOVE FLOOR	— —	TURNING VANES
—STM—	STORM BELOW FLOOR	— —	SUPPLY AIR DUCT
—CD—	CONDENSATE DRAIN	— —	RETURN/EXHAUST AIR DUCT
—V—	VENT	— —	ACOUSTIC DUCT LINING
—SP—	SPRINKLER	— —	THERMAL INSULATION
—G—	NATURAL GAS	— —	BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
—HPG—	HIGH PRESSURE NATURAL GAS	—BD	BALANCING DAMPER
—RL—	REFRIGERANT LIQUID	—OBD	OPPOSED BLADE DAMPER
—RS—	REFRIGERANT SUCTION	— —	MOTORIZED DAMPER
—FD—	FLOOR DRAIN	— —	FIRE DAMPER
— —	TRAP PRIMER	— —	FIRE/SMOKE DAMPER
— —	TEE CONNECTION	— —	RECTANGULAR DUCTWORK
— —	PIPE DOWN	— —	RIGID ROUND DUCT
— —	PIPE UP	— —	FLEXIBLE ROUND DUCT
— —	SCREWED OR WELDED PIPE	— —	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
— —	PLUG VALVE	—EX—	EXISTING DUCT (SIZE AS INDICATED)
— —	BALL VALVE	— —	TRANSFER DUCT (SIZE AS INDICATED)
— —		— —	HEAT TRACING

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The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.  
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2 26.04.24	RE-ISSUED FOR TENDER	MW
1 26.04.10	ISSUED FOR TENDER	MW
#	date: revision:	by:

LICENSED PROFESSIONAL ENGINEER  
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199149074  
PROVINCE OF ONTARIO

All drawing and specifications are the property of the electrical engineer. The Contractor shall verify all dimensions and information on site and report any discrepancy to electrical engineer before proceeding, engineer

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**MECHANICAL LEGEND, NOTES, AND SCHEDULES**

scale:	AS NOTED
drawn by:	CSP
reviewed by:	SO
job number:	24-035
pklt date:	2026-04-01 10:49:33 AM
drawing number:	

**M1.1**

DOMESTIC WATER HEATER SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Input		Water Side		Acceptable Manufacturer & Model		Remarks			
		Capacity	Medium	Storage gal	Recovery gal/h						
WH-3	DOMESTIC WATER HEATER	15 kW	ELECTRIC	50	61	AO SMITH DRE-52-15				208/3/60	

WT CONTROL DAMPER w/ ELECTRIC REHEAT SCHEDULE													CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Location	Airflow Capacity				Size		Electric Heat			Acceptable Manufacturer & Model	Remarks			
		Design (cfm)	Min. Vent (cfm)	Heating		Neck (in)	Box (in)	Capacity kW	Size	Voltage					
				Min. (cfm)	Max. (cfm)										Min. (cfm)
BPD-2	BYPASS DAMPER	1400										20x12			
WT-2.1	STAFF LOUNGE 102	600	240	360	480	180	780	10	12	6.0	16x14	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-2.2	PLANNING TIME 102A	450	180	270	360	135	585	10	12	4.5	16x14	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-2.3	STAFF LOUNGE KITCHENETTE	500	200	300	400	150	650	10	12	6	16x14	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-2.4	CONFERENCE ROOM 101G	450	180	270	360	135	585	10	12	4.5	16x14	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-2.5	MEETING ROOM 101E	200	80	120	160	60	260	8	10	2.0	14x12	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
BPD-3	BYPASS DAMPER	3500										24x18			
WT-3.1	CLASSROOM 129	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-3.2	CLASSROOM 128	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-3.3	CLASSROOM 127	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-3.4	CLASSROOM 126	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-3.5	SERVERY 135A	200	80	120	160	60	260	8	10	2.0	14x12	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
BPD-4	BYPASS DAMPER	3500										24x18			
WT-4.1	CLASSROOM 204	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-4.2	CLASSROOM 203	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-4.3	CLASSROOM 202	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-4.4	CLASSROOM 201	1200	480	720	960	360	1560	14	16	11.5	24x18	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	
WT-4.5	OFFICES 210	200	80	120	160	60	260	8	10	2.0	14x12	208/3/60	EH PRICE SDV KRUEGER LMHS	C/W 900MM ATTENUATOR	

SPLIT AIR CONDITIONING UNIT SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Capacity		Cooling Capacity (MBH)	REFRIGERANT	ELECTRICAL			Acceptable Manufacturer & Model	Remarks		
		tons	cfm			Voltage	MCA	MOCP				
AC-1	INDOOR WALL MTD AC UNIT	2	500	22	R32	208/1/60	-	-	LG KUSAP241A	CONNECT TO CU-1. MAXIMUM SYSTEM CHARGE OF 5lbs.		
CU-1	CONDENSING UNIT	2	-	22	R32	208/1/60	19	30	LG KUSAP241A	PROVIDE POWER FOR AC UNIT THROUGH CU. PROVIDE BAS CONTROL MODULE, FACTORY INSTALLED LOW AMBIENT OPTION AND THERMOSTAT.		
AC-2	INDOOR WALL MTD AC UNIT	2	500	22	R32	208/1/60	-	-	LG KUSAP241A	CONNECT TO CU-2. MAXIMUM SYSTEM CHARGE OF 5lbs.		
CU-2	CONDENSING UNIT	2	-	22	R32	208/1/60	19	30	LG KUSAP241A	PROVIDE POWER FOR AC UNIT THROUGH CU. PROVIDE BAS CONTROL MODULE, FACTORY INSTALLED LOW AMBIENT OPTION AND THERMOSTAT.		

EXPANSION TANK SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Max. Working Pressure (psig)	Max. Working Temperature (°F)	Total Volume (gal.)	Acceptable Volume (gal.)	Diameter (in.)	Height (in.)	System Connection (in.)	Acceptable Manufacturer & Model	Remarks		
ET-1	VERTICAL EXPANSION TANK	150	200	6.4	11.3	12	14	3/4	AMTROL EXTROL ST-12C	SUITABLE FOR POTABLE WATER		

PUMP SCHEDULE								CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Capacity (Usgpm)	Head (ft)	Size (hp)	Speed (rpm)	Acceptable Manufacturer	Remarks		
RP-1	IN-LINE DOMESTIC RECIRC.	5	15	FHP	3600	BELL & GOSSET PR SERIES	SUITABLE FOR POTABLE WATER 120/1/60		
RP-2	IN-LINE TEMPERED DOMESTIC RECIRC.	5	15	FHP	3600	BELL & GOSSET PR SERIES	SUITABLE FOR POTABLE WATER 120/1/60		

SUMP PUMP SCHEDULE								CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Capacity (Usgpm)	Head (ft)	Size (hp)	Electrical Voltage	Speed (rpm)	Acceptable Manufacturer & Model	Remarks		
SP-1	WEEPING TILE DUPLEX SUMP PUMP	20	10	20	20	4/10	120/1/60	3450	MYERS SRM-4	C/W CONTROL PANEL, FLOATS, 600mm ROUND FIBREGlass SUMP, REFER TO SPECIFICATION.

BYPASS BOX SCHEDULE					
No.	Room	Size	Manufacturer	Design cfm	Bypass Duct Size
1	ACAD. STOR.	10"	EH PRICE	250	AS NOTED
2	LIBR. OFFICE 110C	10"	EH PRICE	250	AS NOTED
3	STORAGE 111	8"	EH PRICE	100	AS NOTED

ENERGY RECOVERY UNIT SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.		
Item	Type	Supply Air			Exhaust Air			Electrical Data			Acceptable Manufacturer	Remarks
		CFM	ESP w.g.	Fan hp	CFM	ESP w.g.	Fan hp	Voltage	MCA	MOCP		
ERV-1	EXTERIOR ENERGY RECOVERY VENTILATOR	1500	0.75	1.5	1800	0.75	1.5	575/3/60	20.3	25	ALDES INSPIR-AIR PW20	C/W 24" HIGH ROOF CURB, ENTHALPY RECOVERY WHEEL, 11 KW ELECTRIC PREHEAT COIL POWERED BY ERV-1.

GENERAL ENERGY RECOVERY UNIT SCHEDULE NOTES:

- DESIGN WINTER SUPPLY AIR TEMPERATURE 60F DB

GRILLE SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description						
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCDA	4-CONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY-IN T-BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME.						
D2	ROUND DIFFUSER (EXPOSED)	YES	NONE	EH PRICE RCDA	4-CONE, FULLY ADJUSTABLE, STEEL DIFFUSER W/ROUND NECK & DIFFUSER GUARD. SUITABLE FOR EXPOSED, HUNG INSTALLATION. PROVIDE CONCEALED SAFETY CHAIN FROM DIFFUSER UP INTO DUCTWORK. CUSTOM COLOUR FROM FACTORY, REFER TO ARCHITECTURAL.						
D3	ROUND DIFFUSER (EXPOSED)	YES	NONE	EH PRICE RCDA	4-CONE, FULLY ADJUSTABLE, STEEL DIFFUSER W/ROUND NECK. SUITABLE FOR EXPOSED, HUNG INSTALLATION. CUSTOM COLOUR FROM FACTORY, REFER TO ARCHITECTURAL.						
D4	DIRECTIONAL CEILING DIFFUSER (3 WAY)	YES	NONE	EH PRICE SMDA	LOUVRED FACE, STEEL, FULLY ADJUSTABLE, CEILING DIFFUSER W/SQUARE NECK. SUITABLE FOR SURFACE MOUNTING, NECK SIZE AS INDICATED, 3-WAY CORE STYLE.						
S1	SUPPLY GRILLE	NO	NONE	EH PRICE 32-FLA	DOUBLE DEFLECTION, 1/2" SPACING, ALUMINUM AIRFOIL BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.						
R1	CEILING RETURN GRILLE (NON-DUCTED)	NO	NONE	EH PRICE 80-CH	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.						
R2	OPEN DUCT W/ MESH SCREEN	N/A	N/A	N/A	EXPANDED METAL GRATE OVER OPENING						
R3	SIDEWALL RETURN GRILLE	NO	NONE	EH PRICE 70-FLA	FIXED BLADE AT 45°, 1/2" SPACING, EXTRUDED ALUMINUM BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.						
R4	HEAVY DUTY SIDEWALL RETURN GRILLE	NO	NONE	EH PRICE 98-SA	HEAVY DUTY, FIXED STEEL BLADES AT 45°, 1/2" SPACING, PARALLEL TO SHORT DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.						
R5	RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 80-FA	ALUMINUM EGGRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.						
E1	EXHAUST GRILLE (DUCTED)	NO	NONE	EH PRICE 80-FA	ALUMINUM FIXED DEFLECTION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.						

GENERAL GRILLE SCHEDULE NOTES:

- ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALARE, TUTTLE & BAILEY.
- GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED.
- PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATTE BLACK (WHERE VISIBLE THRU GRILLE).

FAN SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Capacity (cfm)	ESP (in wc)	Fan Speed (rpm)	Motor		Acceptable Manufacturer	Remarks			
					hp	Voltage					
EF-2	ROOF EXHAUST FAN (STORAGE ROOMS)	240	0.3	1300	FHP	120/1/60	GREENHECK G-080	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, DOWN DISCHARGE, W/ DIRECT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER			
EF-3	ROOF EXHAUST FAN (STAFF WASHROOMS)	200	0.2	1300	FHP	120/1/60	GREENHECK G-070	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, DOWN DISCHARGE, W/ DIRECT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER			
EF-4	RANGEHOOD (DUCTED) (STAFF LOUNGE KITCHENETTE)	210	0.2	3 SPD	FHP	120/1/60	BROAN SAHLE BKDF1	CONTOURED STEEL HOUSING, FULLY ENCLOSED BOTTOM, TOP DISCHARGE, CENTIFUGAL BLOWER WHEELS, WASHABLE ALUMINUM FILTERS, 3 SPEED BLOWER CONTROL, PROVIDE 2 LEVEL LED LIGHTING. FINISH SELECTED BY CONSULTANT.			
EF-5	ROOF EXHAUST FAN (GYM STORAGE ROOM)	300	0.2	1500	FHP	120/1/60	GREENHECK G-070	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, DOWN DISCHARGE, W/ DIRECT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB, & BACKDRAFT DAMPER			
EF-6	ROOF EXHAUST FAN (MECH/ELEC ROOM)	100	0.2	1500	FHP	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES			
EF-7	CEILING EXHAUST FAN (KINDERGARTEN WASHROOM)	100	0.2	640	FHP	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES			
EF-8	CEILING EXHAUST FAN (STAFF WASHROOM)	100	0.2	640	FHP	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES			
EF-9	NOT USED										
EF-10	CEILING EXHAUST FAN (ELECTRICAL ROOM)	100	0.2	640	FHP	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES			
EF-11	CEILING EXHAUST FAN (STORAGE ROOM)	100	0.2	640	FHP	120/1/60	BROAN L100	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 1.1 SONES			

GENERAL FAN SCHEDULE NOTES:

- ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, CARNES, ACME, TWIN CITY, JENCO, BUFFALO. (CEILING FANS: BROAN, GREENHECK, ZONEX)
- PROVIDE 24" TALL PREFABRICATED, INSULATED ROOF CURB FOR ALL ROOF MOUNTED FANS.

WATER SOFTENER SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.			
Item	Type	Mineral Tank		Brine Tank		Capacity (gains)	Min. Flow (gpm)	Regenerative Time (mins)	Electrical			Acceptable Manufacturer & Model	Remarks
		Diameter (in)	Height (in)	Diameter (in)	Height (in)				Voltage	MCA	MOCP		
WTS-1	SIMPLEX	14	65	24	37	66,000	N/A	120	120/1/60	-	-	CANATURE 95STS	PROVIDE ONE COMPLETE WATER SOFTENER SYSTEM, INCLUDE ALL MINERAL TANKS, BRINE TANKS, CONTROL VALVES, CONTROL PANELS & FLOW DISTRIBUTORS FOR A COMPLETE AND OPERABLE SYSTEM

ELECTRIC DUCT HEATER SCHEDULE										CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	
Item	Type	Capacity (cfm)	Air Velocity (fpm)	Size	Air Temperatures		Electrical			Acceptable Manufacturer & Model	Remarks
					EAT (°F)	LAT (°F)	Voltage	Capacity (kW)	Control		
EDH-1	FRONT END SUPPLEMENTAL COIL	1500	450	30x16	60	90	575/3/60	15.0	SCR	THERMOLEC SC SERIES	C/W SCR CONTROLLER (FULLY MODULATING)

GENERAL ELECTRIC DUCT HEATER SCHEDULE NOTES:

- C/W ACCESS PANEL, AUTOMATIC RESET THERMAL CUT-OUT, AIR FLOW SENSOR, MANUAL RESET THERMAL CUT-OUT, DUCT T-STAT, 24V CONTROL.

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The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.  
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.  
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.  
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.  
Do not scale this drawing.  
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Project Number: 25984

2 26.04.24 RE-ISSUED FOR TENDER M/W  
1 26.04.10 ISSUED FOR TENDER M/W  
# date: revision: by:

LICENSED PROFESSIONAL ENGINEER  
24 Apr 20  
M.B. WHITE  
1991/19074  
PROVINCE OF ONTARIO

All drawing and specifications are the property of the electrical engineer. The Contractor shall verify all dimensions and information on site and report any discrepancy to electrical engineer before proceeding, engineer

**St. Mark CES Renovations**  
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**MECHANICAL SCHEDULES**



scale: AS NOTED  
drawn by: CSP  
reviewed by: SO  
job number: 24-035  
plot date: 2026-04-

PLUMBING FIXTURE SCHEDULE

Item	Type	Connection Sizes					Fixture		Trim		Accessories	
		HW	CW	TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	WATER CLOSET FLUSH VALVE, HANDS FREE	1			3	1 1/2	AMERICAN STANDARD MADERA 2234.001 KOHLER WELLCOMME K-4350 MANSFIELD BALTIC 1311NS ZURN ECO VANTAGE Z5655-BWL	VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.5 gal) PER FLUSH.	DELTA 817201-WMWSH ZURN ZEM56000AV SLOAN 111-ES-S	EXPOSED, POLISHED CHROME PLATED, DIAPHRAGM TYPE FLUSH VALVE WITH 25mm (1") SCREWDRIER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	SEAT: BEMIS 2155SSCT CENTOCO AM500STSCSS	SEAT: WHITE, ELONGATED, OPEN FRONT, LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-2	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH, HANDS FREE	1			3	1 1/2	AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRATIC 1319 ZURN ECO VANTAGE Z5665-BWL	BARRIER FREE, 16" TALL TO RIM, VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.5 gal) PER FLUSH.	DELTA 817201-WMWSH ZURN ZEM56000AV SLOAN 111-ES-S	EXPOSED, POLISHED CHROME PLATED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	SEAT: BEMIS 7850TDG CENTOCO AMB20STS	SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-3	WATER CLOSET FLUSH TANK ROUND FRONT FOR KINDERGARTENS		1/2		3	1 1/2	AMERICAN STANDARD CADET 3 2384.012 KOHLER WELLWORTH K-3977 ZURN Z5540	VITREOUS CHINA, TANK WITH LINER & FLAPPER TYPE VALVE ASS'Y, SIPHON JET, ROUND RIM, TWO PIECE (TANK & BOWL) CLOSE COUPLED, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.			SEAT: BEMIS 7750TDG CENTOCO 460TM	SEAT: WHITE, ROUND, CLOSED FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-4	WATER CLOSET FLUSH TANK		1/2		3	1 1/2	AMERICAN STANDARD CADET 2467 016, 3483 016 KOHLER WELLWORTH K-3505 MANSFIELD QUANTUM 147-123 ZURN Z5530-IN	16" TALL TO RIM, VITREOUS CHINA, TANK WITH LINER & PRESSURE ASSISTED, SIPHON JET, ELONGATED RIM, METAL CHROME TRIP LEVER, TWO PIECE (TANK & BOWL) CLOSE COUPLED, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.			SEAT: BEMIS 7850T06 CENTOCO AMB20STS	SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
WC-5	BARRIER FREE WATER CLOSET FLUSH TANK		1		3	1 1/2	AMERICAN STANDARD CADET 2110A104 KOHLER WELLWORTH MANSFIELD QUANTUM ZURN	VITREOUS CHINA, TANK WITH LINER, SIPHON JET, ELONGATED RIM, METAL CHROME TRIP LEVER, TWO PIECE (TANK & BOWL) CLOSE COUPLED, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.			SEAT: BEMIS 2155SSCT CENTOCO AM500STSCSS	SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
U-1	URINAL FLUSH VALVE, HANDS FREE		3/4		2	1 1/2	AMERICAN STANDARD WASHBROOK 6590.005 KOHLER BARDON K-4991-ET ZURN Z5755-U	VITREOUS CHINA, WASHOUT TYPE, INTEGRAL FLUSHING RIM, EXTENDED SHIELDS, INTEGRAL TRAP, BACK OUTLET, WALL-MOUNTED, TOP SUPPLY SPUD, MIN 2" TRAP WAY, MAXIMUM 1.9 litres (0.5 gal) PER FLUSH.	DELTA 817231-WMWSH ZURN ZEM56003-EWS SLOAN 186 ES-S-0.5	POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH HARDWIRED WALLMOUNTED SENSOR, RIGHT OR LEFT-HAND SUPPLY INSTALLATION, AUTOMATIC OPERATION HARDWARE POWERED SENSOR, INFRARED SENSOR TO HAVE A RANGE ADJUSTMENT OF 305MM - 711MM (12"- 28") AND ELECTRONIC MANUAL OVERRIDE BUTTON. FLUSH CYCLE SET .9 LITRE (0.50 GAL.)		
U-2	URINAL FLUSH VALVE, HANDS FREE (BARRIER FREE)		3/4		2	1 1/2	AMERICAN STANDARD WASHBROOK 6590.005 KOHLER BARDON K-4991-ET ZURN Z5755-U	VITREOUS CHINA, WASHOUT TYPE, INTEGRAL FLUSHING RIM, EXTENDED SHIELDS, INTEGRAL TRAP, BACK OUTLET, WALL-MOUNTED, TOP SUPPLY SPUD, MIN 2" TRAP WAY, MAXIMUM 1.9 litres (0.5 gal) PER FLUSH.	DELTA 817231-WMWSH ZURN ZEM56003-EWS SLOAN 186 ES-S-0.5	POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH HARDWIRED WALLMOUNTED SENSOR, RIGHT OR LEFT-HAND SUPPLY INSTALLATION, AUTOMATIC OPERATION HARDWARE POWERED SENSOR, INFRARED SENSOR TO HAVE A RANGE ADJUSTMENT OF 305MM - 711MM (12"- 28") AND ELECTRONIC MANUAL OVERRIDE BUTTON. FLUSH CYCLE SET .9 LITRE (0.50 GAL.)		
L-1	WALL MOUNTED LAV SINGLE HANDLE FAUCET (STAFF WASHROOMS)	1/2	1/2		1 1/4	1 1/4	AMERICAN STANDARD LUCERNE 355.012 KOHLER BRENHAM K-1997 ZURN Z5344	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH UP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").	DELTA 22C131 MOEN COMMERCIAL 8413 ZURN Z81000-XL	CAST BRASS CHROME PLATED SINGLE HANDED MIXING FAUCET, MIXING SPOUT, CERAMIC CARTRIDGE WITH STOPS, VANDAL RESISTANT AERATOR & HANDLE. PROVIDE ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 L/MIN (2.2 GPM) AT 413 KPA (60 PSI). 102mm (4") CENTRES.		WASTE FITTING: OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER
L-2	B.F. WHEELCHAIR LAV ELECTRONIC FAUCET (UNIVERSAL WASHROOM)	1/2	1/2		1 1/4	1 1/4	AMERICAN STANDARD WHEELCHAIR 9141.011 KOHLER MORNINGSIDE K-12636-L ZURN	WALL-HUNG SINK, VITREOUS CHINA, LOW SHELF, WITH INTEGRAL BACK, CONTOURED FRONT, SHALLOW FRONT BASIN, OVERFLOW, SOAP DEPRESSIONS, SUPPLY OPENINGS ON 100 MM (4") CENTRES, CONCEALED SUPPORTS. SIZES: 686 MM X 500 MM (27" X 20").	DELTA 5910220 MOEN COMMERCIAL C8X301-4C ZURN Z8915-HW6-XL	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE: 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH, VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5gpm (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER.	INSULATION: MOGURE PROWRAP PW8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1 1/4") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
L-3	WALL MOUNTED LAV SINGLE HANDLE FAUCET (KINDERGARTEN WASHROOM)	1/2	1/2		1 1/4	1 1/4	AMERICAN STANDARD LUCERNE 355.012 KOHLER BRENHAM K-1997 ZURN Z5344	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH UP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").	DELTA 22C131 MOEN COMMERCIAL 8413 ZURN Z81000-XL	CAST BRASS CHROME PLATED SINGLE HANDED MIXING FAUCET, MIXING SPOUT, CERAMIC CARTRIDGE WITH STOPS, VANDAL RESISTANT AERATOR & HANDLE. PROVIDE ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 L/MIN (2.2 GPM) AT 413 KPA (60 PSI). 102mm (4") CENTRES.		INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1 1/4") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
L-4	WALL HUNG LAV SINGLE HANDLE (GYM WASHROOMS)	1/2	1/2		1 1/4	1 1/4	AMERICAN STANDARD LUCERNE 355.012 KOHLER BRENHAM K-1997 ZURN Z5344	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH UP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").	DELTA 877105 MOEN COMMERCIAL 8884 ZURN Z86100-XL-RRR	HEAVY DUTY CAST BRASS CHROME PLATED SINGLE HOLE MOUNT FAUCET, SLOW CLOSING METERING INTEGRAL BRASS CENTERLINE SPOUT VANDAL RESISTANT HANDLE, ADJUSTABLE CYCLE TIME (PRESET TO 10 SECONDS @ 80 PSI) VANDAL RESISTANT AERATOR. MAXIMUM FLOW RATE NOT TO EXCEED 0.5 GPM (0.25 GALLONS 0.95L PER CYCLE) C/W HEAVY DUTY CAST BRASS CHROME PLATED COVER PLATE.		WASTE FITTING: OPEN GRID STRAINER PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
WF-1	TERREON WASH FOUNTAIN	1/2	1/2		1 1/2	1 1/4	BRADLEY MF2933	SEMI-CIRCULAR TERREON BOWL. ALL EXPOSED COMPONENTS TO BE STAINLESS STEEL. SUITABLE FOR THREE (3) USERS. STANDARD PEDESTAL WEIGHT. C/W BACKSPASH. TRIM: AIR PUSH BUTTON, AT EACH INDIVIDUAL USER, MOLDED SPRAYHEAD, STOP VALVES, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40C. NO SOAP DISPENSER. COLOUR SELECTION BY ARCHITECT.				
MS-1	MOP SINK	1/2	1/2		3	1 1/2	FAT MSB 2424 ZURN 1986-24 STERN WILLIAMS MTB-2424	SINK: MOLDED HIGH DENSITY COMPOSITE BASIN WITH 80 mm (3") CHROME PLATED CAST BRASS DOME STRAINER AND GASKETED OUTLET CONNECTION. OVERALL SIZE: 600 mm X 600 mm X 250 mm HIGH (24" X 24" X 10").	FAT 830-AA ZURN Z842M1-5H DELTA 2819	WALL MOUNTED FAUCET: CHROME PLATED CAST BRASS WALL MOUNTED FAUCET WITH WALL BRACE, 20 mm (3/4") THREADED OUTLET SPOUT WITH PAIL HOOK, 200 mm (8") CENTRESET LEVER HANDLES, VACUUM BREAKER, ESCUTCHEONS, UNION INLETS, AERATOR, & INTEGRAL STOP VALVES. PROVIDE ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 KPA (60 psi).	FAT ZURN STERN WILLIAMS DELTA	HOSE AND HOSE BRACKET: 1200 mm (48") LONG RUBBER HOSE MOP HANGER WALL GUARD: STAINLESS STEEL 600 mm (24") HIGH CONTINUOUS ON ADJACENT WALLS.
S-1	STAINLESS STEEL SINGLE SINK		1/2		1 1/2	1 1/4	KINDRED LBS6808-1/3 NOVANNI 1017	SINK: SINGLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 520 mm X 510 mm X 200 mm (20 1/2" X 20" X 8").	DELTA 100 ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
S-2	STAINLESS STEEL SINGLE SINK		1/2		1 1/2	1 1/4	KINDRED LBS6808-1/3 NOVANNI 1017	SINK: SINGLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 520 mm X 510 mm X 200 mm (20 1/2" X 20" X 8").	DELTA 100 ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
DS-1	STAINLESS STEEL DOUBLE SINK	1/2	1/2		1 1/2	1 1/4	KINDRED LBD6408-1/3 NOVANNI 20071	SINK: DOUBLE COMPARTMENT, LEDGE-BACK. FROM 1.0 mm (20 GAUGE) THICK TYPE 302 POLISHED STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZES: 790 mm X 520 mm X 200 mm (31 1/2" X 20 3/4" X 8").	DELTA 100 ZURN Z82300-CP8 MOEN COMMERCIAL 8701	FAUCET: CHROME PLATED BRASS, WITH SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, WASHERLESS CONTROLS, ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 8.35 l/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
DF-1	SINGLE DRINKING FOUNTAIN WITH BOTTLE FILLER		1/2		1 1/4	1 1/4	MURDOCK A171-UG HAWK ELKAY ACORN	18 GAUGE TYPE 304 STAINLESS STEEL CONSTRUCTION WITH VANDAL-RESISTANT BOTTOM. INTEGRAL BACK, STRAINER, ACCESS PANEL AND GRILLE, ELEVATED BUBBLER BASES. CHROME PLATED BRASS BUBBLER, PUSH-BUTTON OPERATOR, SELF-REGULATING, ANGLE STREAM, SQUIRT-PROOF, WITH NOZZLES AND GUARDS.	MURDOCK BF1S	STAINLESS STEEL, HEAVY DUTY, WITH PUSH BUTTON OPERATION.		
FD-1	FLOOR DRAIN (NON TILED AREAS)				NOTED	1 1/2	ZURN ZN415B MIFAB F1100-C CONTOUR C2000-RB WATTS FD-100-C-A	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. ROUND STRAINER C/W TRAP PRIMER.				
FD-2	FLOOR DRAIN (TILED AREAS)				NOTED	1 1/2	SCHLUTER KERDI-DRAIN-A	STAINLESS STEEL GRATE ASSEMBLY W/ ABS ADJUSTMENT RING, W/ INTEGRATED BONDING FLANGE. SQUARE STRAINER C/W TRAP PRIMER.				
FD-3	ELEVATOR SUMP DRAIN				NOTED	1 1/2	ZURN Z-629 WATTS DRAINAGE MIFAB CONTOUR C2900NB	GENERAL DUTY VERTICAL WALL DRAIN, CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE STRAINER. C/W INTEGRAL BACKWATER VALVE.				
FFD-1	FUNNEL FLOOR DRAIN				NOTED	1 1/2	ZURN ZN-415-BF MIFAB F1100-C-EG CONTOUR C2000-RSHNB WATTS FD-100-C-EG-1	COMBINATION FUNNEL FLOOR DRAIN CAST IRON BODY WITH INTEGRAL SEEPAGE PAN, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD STRAINER WITH INTEGRAL FUNNEL. C/W TRAP PRIMER.				
HD-1	HUB DRAIN				NOTED	1 1/2	ZURN Z415 C/W Z-400-S MIFAB F1100-C-DD CONTOUR C2000-F WATTS FD-100-C-DD	GENERAL DUTY HUB DRAIN CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD HUB. C/W TRAP PRIMER.				
RD-1	ROOF DRAIN				NOTED		ZURN ZACF121-CR MIFAB R1200-FBU CONTOUR C1000DMPX WATTS RD-100-ABDK SMITH 1016-C-R-AD	CONTROLLED FLOW, CAST IRON BODY, UNDER DECK CLAMP AND SUMP RECENER TO SUIT ROOF CONSTRUCTION, FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP, BEARING PAN, FLOW CONTROL WEIR ASSEMBLY, ALUMINUM DOME.				
HB-1	WALL HYDRANT		3/4				WATTS B0 SERIES DELTA WALTEC WILKINS EMCO	20 MM (3/4") DIAMETER BRASS CONSTRUCTION, 200 PSI, 180°F PRESSURE AND TEMPERATURE LIMITS, COMPLETE WITH HOSE CONNECTION, AND WHEEL HANDLE STRAIGHT/ANGLE. PATTERN TO SUIT. PROVIDE VACUUM BREAKER COMPLETE WITH HOSE CONNECTION.				
NFHB-1	NON-FREEZE WALL HYDRANT		3/4				ZURN Z-1300 MIFAB MHY-20 ANCON HY-725	RECESSED, ENCASED, ALL BRONZE CONSTRUCTION, ANTI-SYPHON, NON FREEZE WALL HYDRANT WITH NON-TURNING OPERATING ROD, FREE FLOATING COMPRESSION VALVE, INTEGRAL VACUUM BREAKER, SELF DRAINING, REPLACEABLE SEAT AND SEAT WASHER, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK. NPS 20 MM (3/4") HOSE OUTLET.				

CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.

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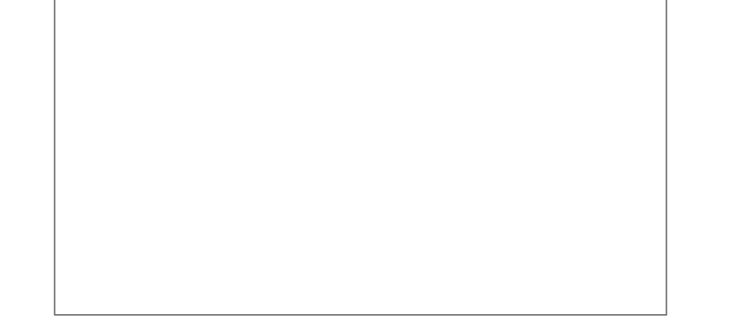
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LICENSED PROFESSIONAL ENGINEER  
24 Apr 26  
M.B. WHITE  
1991/19074  
PROVINCE OF ONTARIO

**St. Mark CES Renovations**  
240 Autumn Hill Crescent  
Kitchener, ON N2N 1K8

PLUMBING SCHEDULE

scale:	AS NOTED
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reviewed by:	SO
job number:	24-035
pklt date:	2026-04-01 10:49:33 AM
drawing number:	M1.3

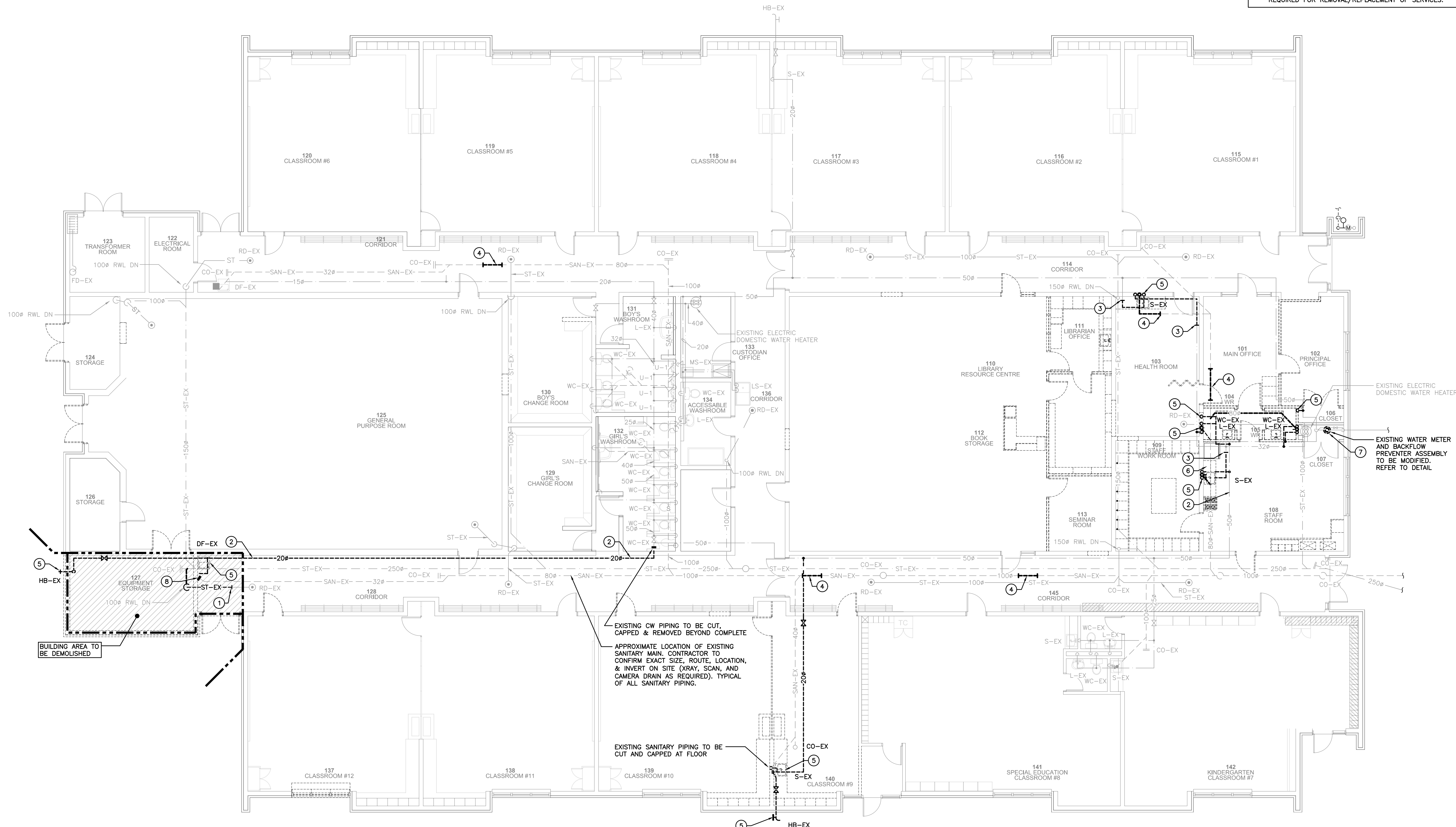
M1.3

**SPECIFIC DEMOLITION NOTES**

- CUT EXISTING STORM PIPING AND PREPARE FOR NEW CONNECTION.
- REMOVE EXISTING CW LINE COMPLETE.
- CUT EXISTING WATER PIPE AND PREPARE FOR NEW CONNECTION.
- CUT EXISTING SANITARY PIPE AND PREPARE FOR NEW CONNECTION.
- EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING & FITTINGS TO BE REMOVED COMPLETE. REMOVE PIPING BACK TO MAIN UNLESS OTHERWISE INDICATED.
- EXISTING DISHWASHER TO BE REMOVED COMPLETE.
- EXISTING 50# WATER METER AND BACKFLOW PREVENTOR ASSEMBLY TO BE REMOVED COMPLETE BACK TO LOCATION OF 100# CITY CW CONNECTION. PREPARE FOR NEW 80# CONNECTION.
- CUT AND CAP EXISTING SANITARY PIPING.

**GENERAL DEMOLITION NOTES**

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- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
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**PLUMBING AND DRAINAGE – DEMOLITION PLAN**  
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LICENSED PROFESSIONAL ENGINEER  
24 Apr 20  
M.B. WHITE  
190149074  
PROVINCE OF ONTARIO

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**PLUMBING AND DRAINAGE - DEMOLITION**



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job number:	24-035
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drawing number:	

**M2.1**

**SPECIFIC DEMOLITION NOTES**

- CUT AND CAP EXISTING DUCTWORK.
- CUT EXISTING DUCT AND PREPARE FOR NEW CONNECTION.
- REMOVE EXISTING RANGE HOOD AND ASSOCIATED DUCTWORK COMPLETE. PATCH AND MAKE GOOD THE ROOF.
- REMOVE EXISTING GRILLE/DIFFUSER COMPLETE.
- REMOVE EXISTING DIFFUSER AND ASSOCIATED DUCTWORK AND DAMPERS BACK TO DUCT MAIN. PREPARE FOR NEW CONNECTION.
- REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK COMPLETE. PATCH AND MAKE GOOD THE ROOF.
- REMOVE COMPLETE ALL DUCTWORK FROM EXISTING RTU DROPS.
- REMOVE COMPLETE EXISTING THERMOSTAT.
- PATCH EXISTING HOLE IN CEILING SPACE WALL.
- EXISTING DUCTWORK TO BE REMOVED COMPLETE.

**GENERAL DEMOLITION NOTES**

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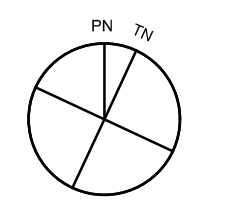
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24 Apr 20  
M.B. WHITE  
190149074  
PROVINCE OF ONTARIO

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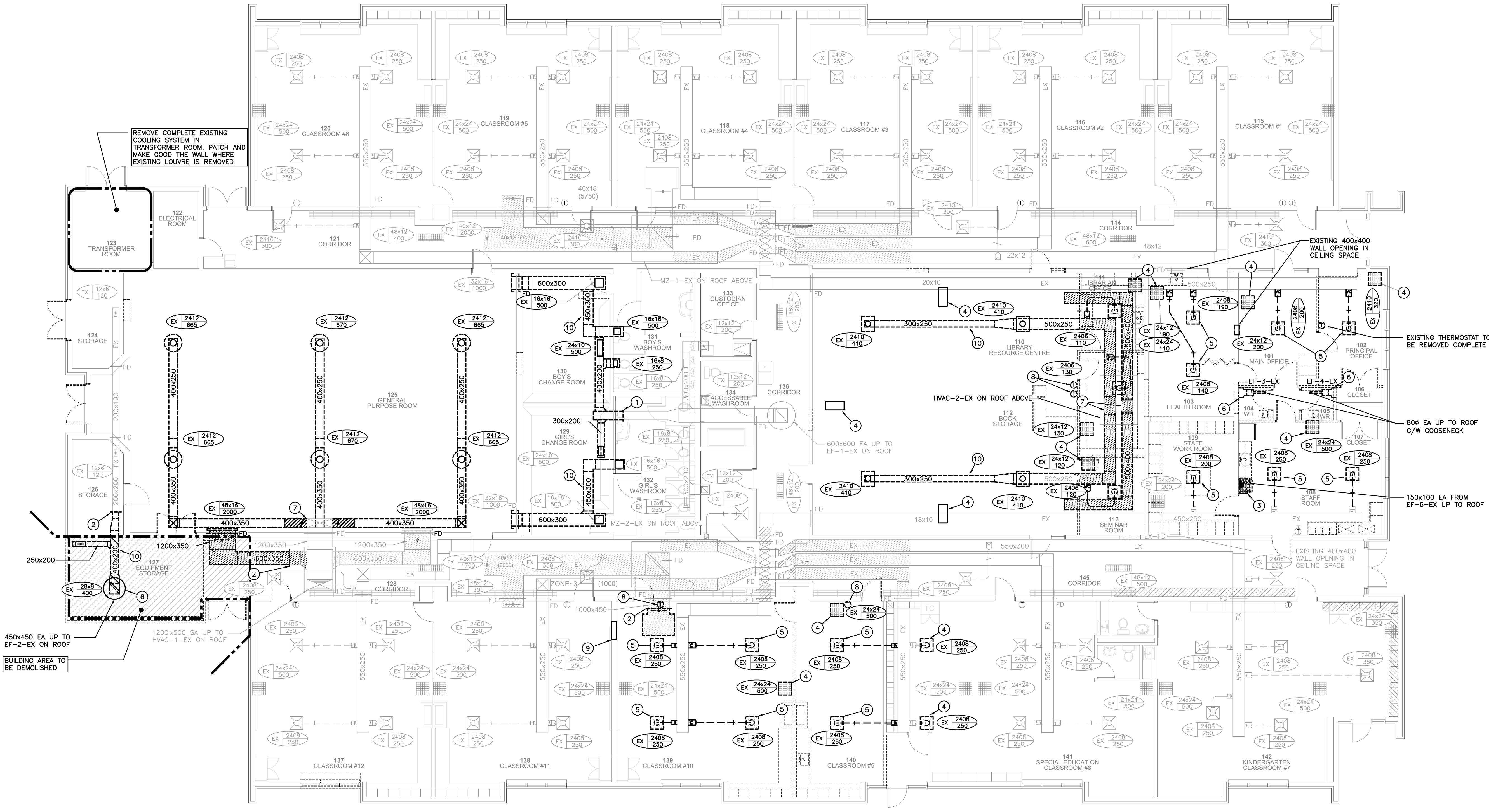
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**VENTILATION AND HEATING - DEMOLITION**



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reviewed by:	SO
job number:	24-035
plot date:	2026-04-01 10:49:33 AM
drawing number:	

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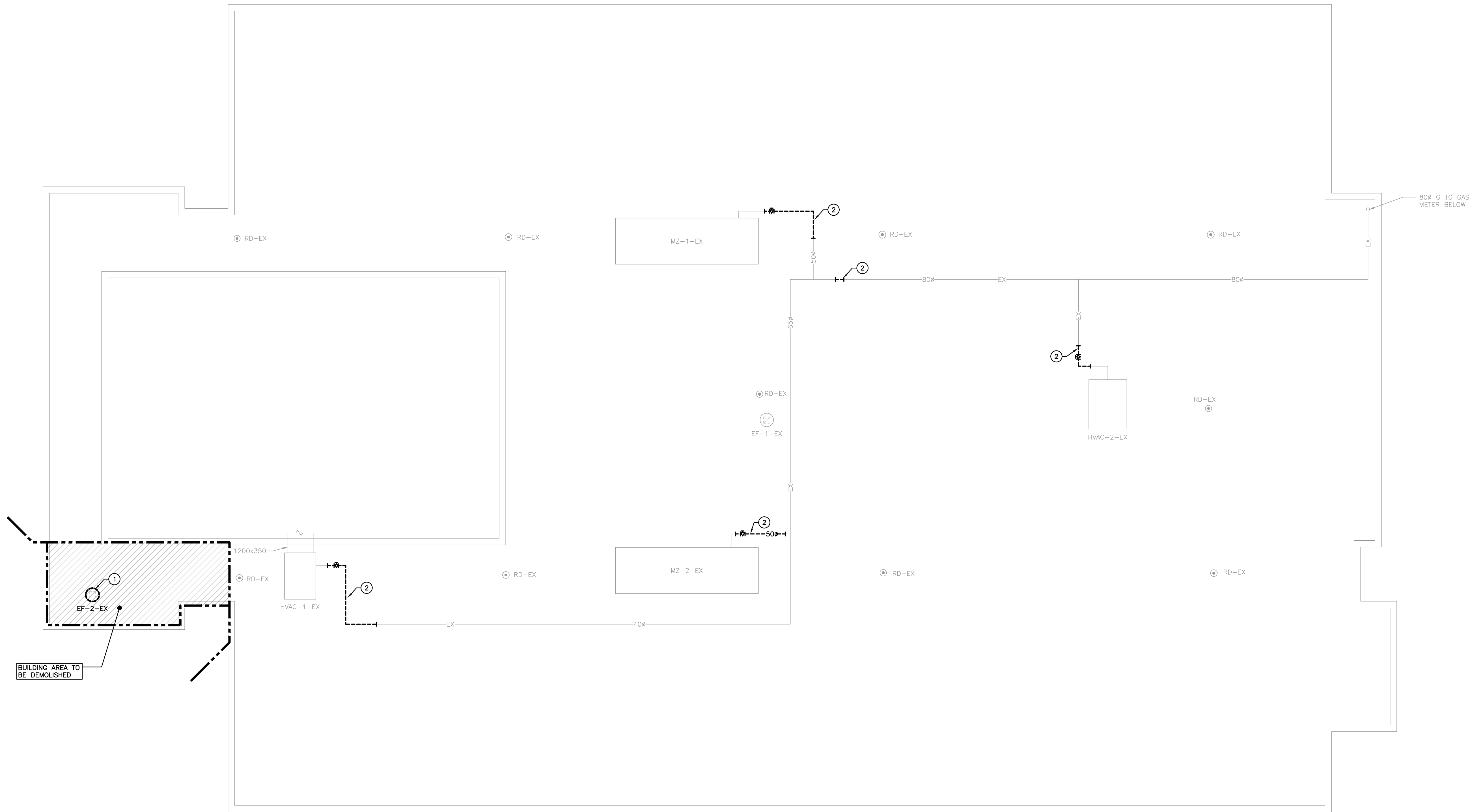
**VENTILATION AND HEATING - DEMOLITION PLAN**  
SCALE: 1:100

**SPECIFIC DEMOLITION NOTES**

- EXISTING ROOFTOP EXHAUST FAN TO BE REMOVED COMPLETE.
- CUT EXISTING GAS PIPING AND PREPARE FOR NEW CONNECTION.

**GENERAL DEMOLITION NOTES**

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**ROOF PLAN - DEMOLITION**  
SCALE: 1:100

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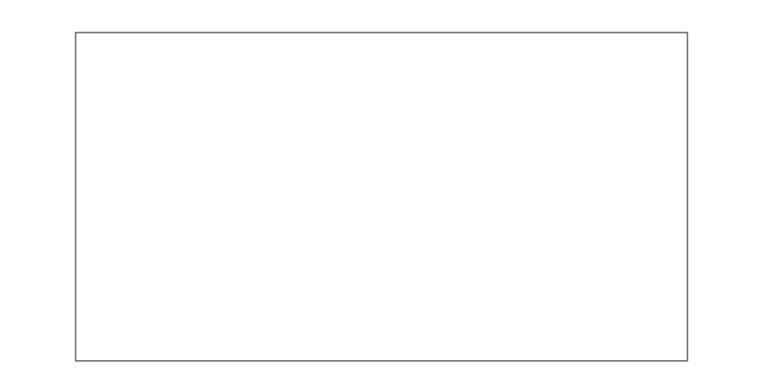
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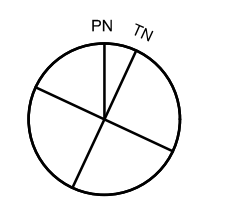
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LICENSED PROFESSIONAL ENGINEER  
24 Apr 26  
M.B. WHITE  
199149074  
PROVINCE OF ONTARIO

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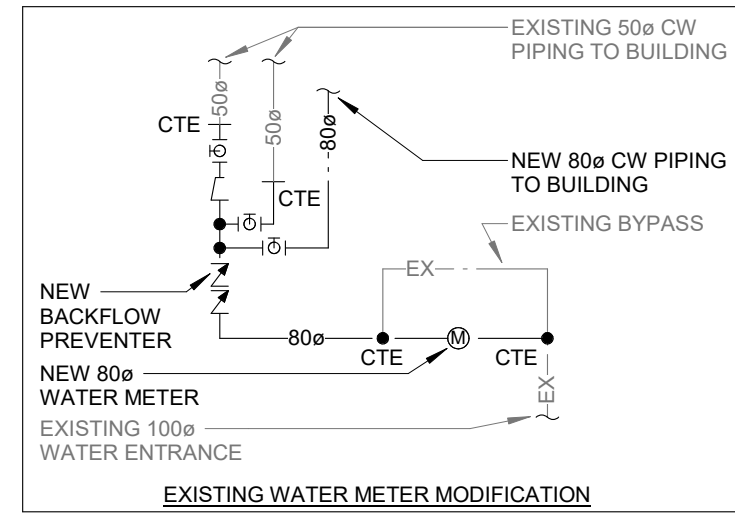
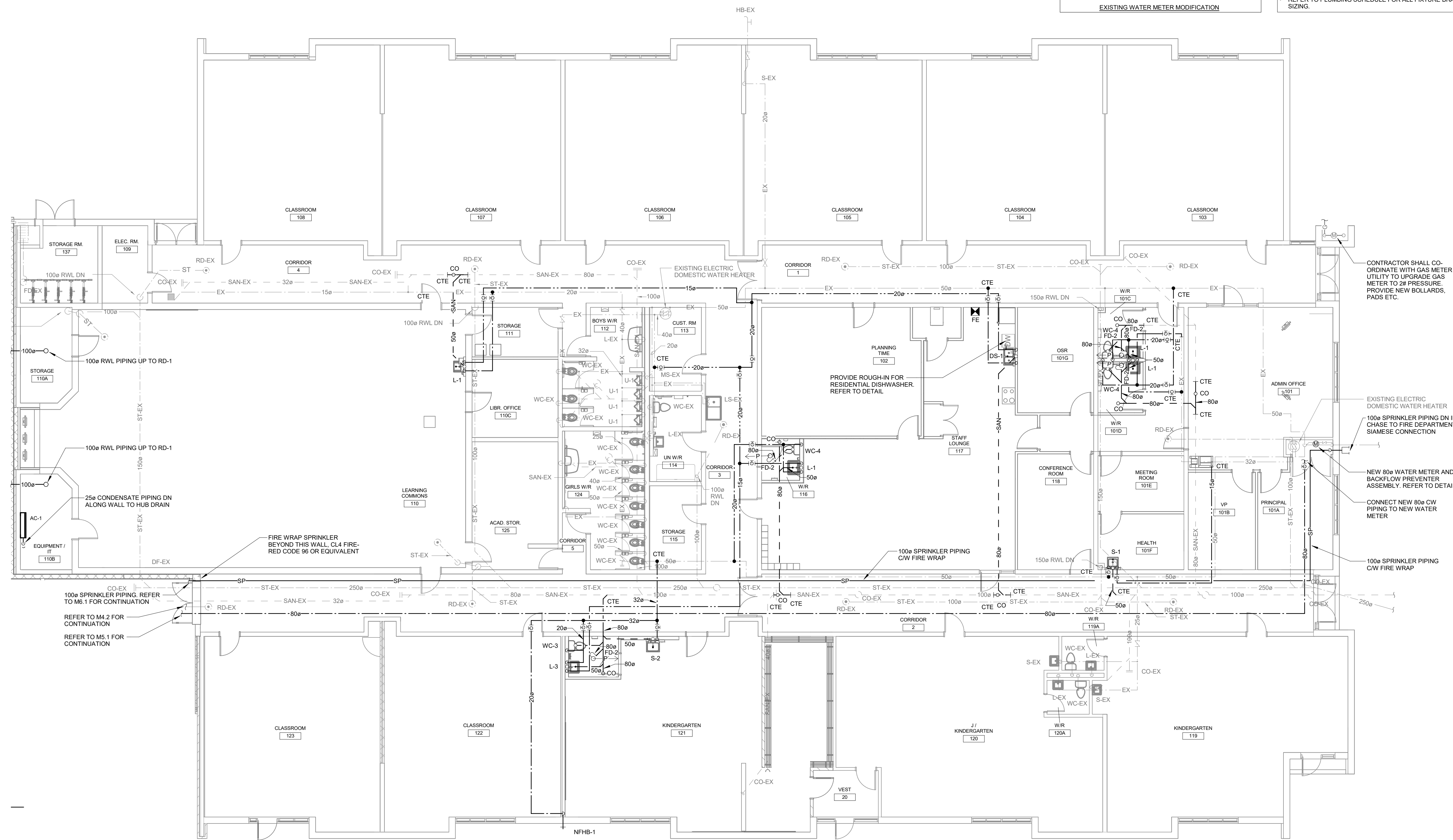
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240 Autumn Hill Crescent  
Kitchener, ON N2N 1K9

**ROOF PLAN - DEMOLITION**



scale:	AS NOTED
drawn by:	CSP
reviewed by:	SO
job number:	24-035
plt date:	2026-04-01 10:49:33 AM

drawing number: **M2.3**



- GENERAL NOTES**
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
  - SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS. CO-ORDINATE VENT LOCATIONS WITH GENERAL CONTRACTOR. MAINTAIN 4200MM (14'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
  - ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.
  - REFER TO PLUMBING SCHEDULE FOR ALL FIXTURE BRANCH SIZING.

**LEVEL 1 PLUMBING - RENOVATION**  
SCALE: 1 : 100

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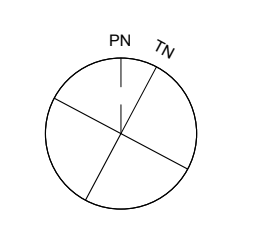
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Apr 24 26  
M.B. WHITE  
100149074  
PROVINCE OF ONTARIO

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**PLUMBING AND DRAINAGE - RENOVATION**

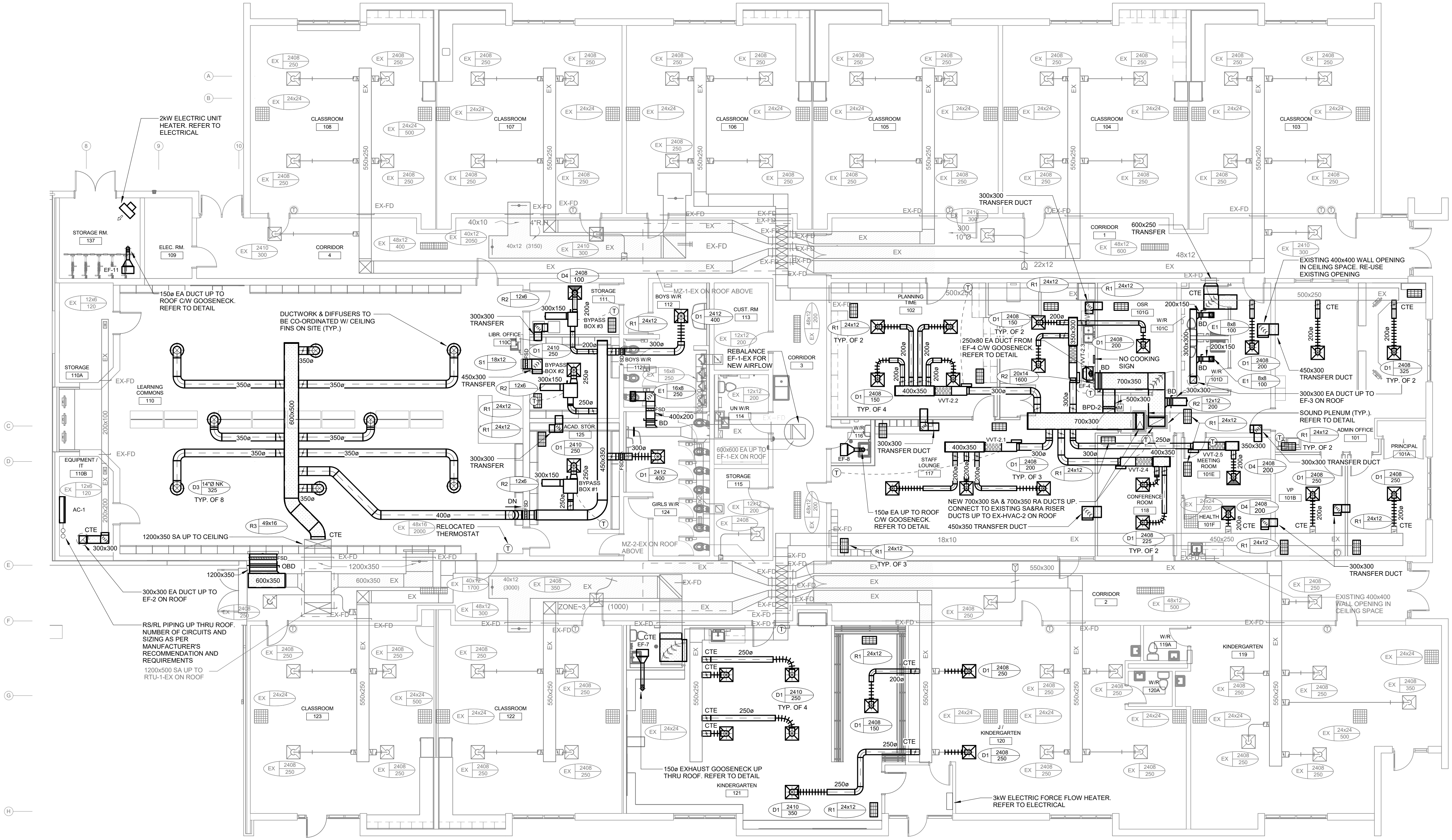


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drawn by:	AP
reviewed by:	CSP/ISO
job number:	07001
plot date:	2026-04-23 1:53:09 PM
drawing number:	

**M3.1**

**GENERAL NOTES**

- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT GRILLED DIFFUSER LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCTS BETWEEN OWSJ.
- COORDINATE NEW OPENING LOCATIONS WITH STRUCTURAL CONSULTANT AND DRAWINGS PRIOR TO STRUCTURAL DEMOLITION FOR NEW DUCTWORK INSTALLATION.
- USE EXISTING BLOCK OPENINGS WHEREVER POSSIBLE.

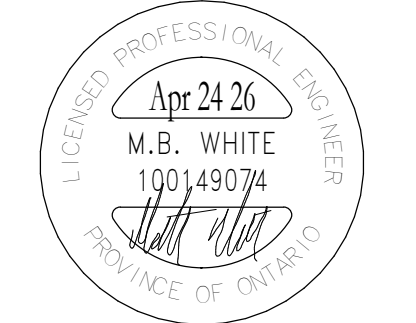


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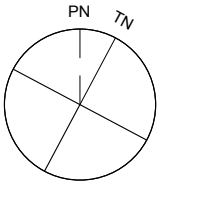
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2	25.12.17	ISSUED FOR PERMIT RESPONSE	MW
1	25.09.05	ISSUED FOR PERMIT	MW
#	date:	revision:	by:



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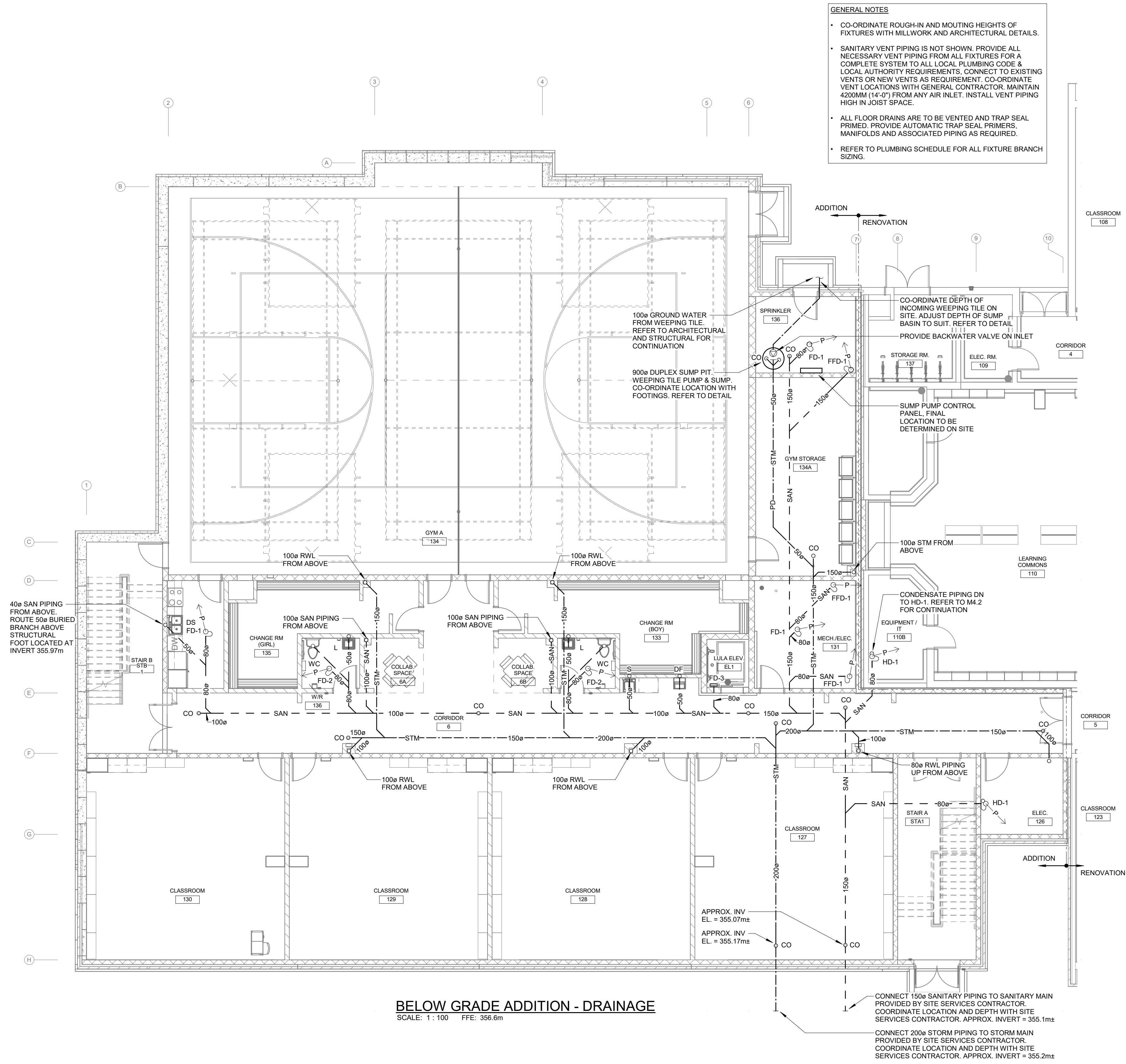
**VENTILATION AND HEATING - RENOVATION**



scale: AS NOTED  
drawn by: AP  
reviewed by: CSP/SO  
job number: 07001  
plot date: 2026-04-23 1:53:12 PM  
drawing number:

**LEVEL 1 VENTILATION - RENOVATION**  
SCALE: 1 : 100

**M3.2**



- GENERAL NOTES**
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
  - SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS. CONNECT TO EXISTING VENTS OR NEW VENTS AS REQUIREMENT. CO-ORDINATE VENT LOCATIONS WITH GENERAL CONTRACTOR. MAINTAIN 4200MM (14'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
  - ALL FLOOR DRAINS ARE TO BE VENTED AND TRAP SEAL PRIMED. PROVIDE AUTOMATIC TRAP SEAL PRIMERS, MANIFOLDS AND ASSOCIATED PIPING AS REQUIRED.
  - REFER TO PLUMBING SCHEDULE FOR ALL FIXTURE BRANCH SIZING.

**BELOW GRADE ADDITION - DRAINAGE**  
SCALE: 1 : 100 FFE: 356.6m

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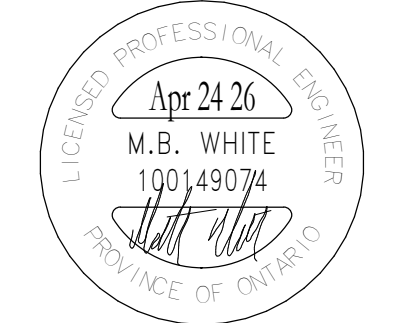
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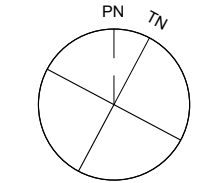
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1	25.09.05	ISSUED FOR PERMIT	MW
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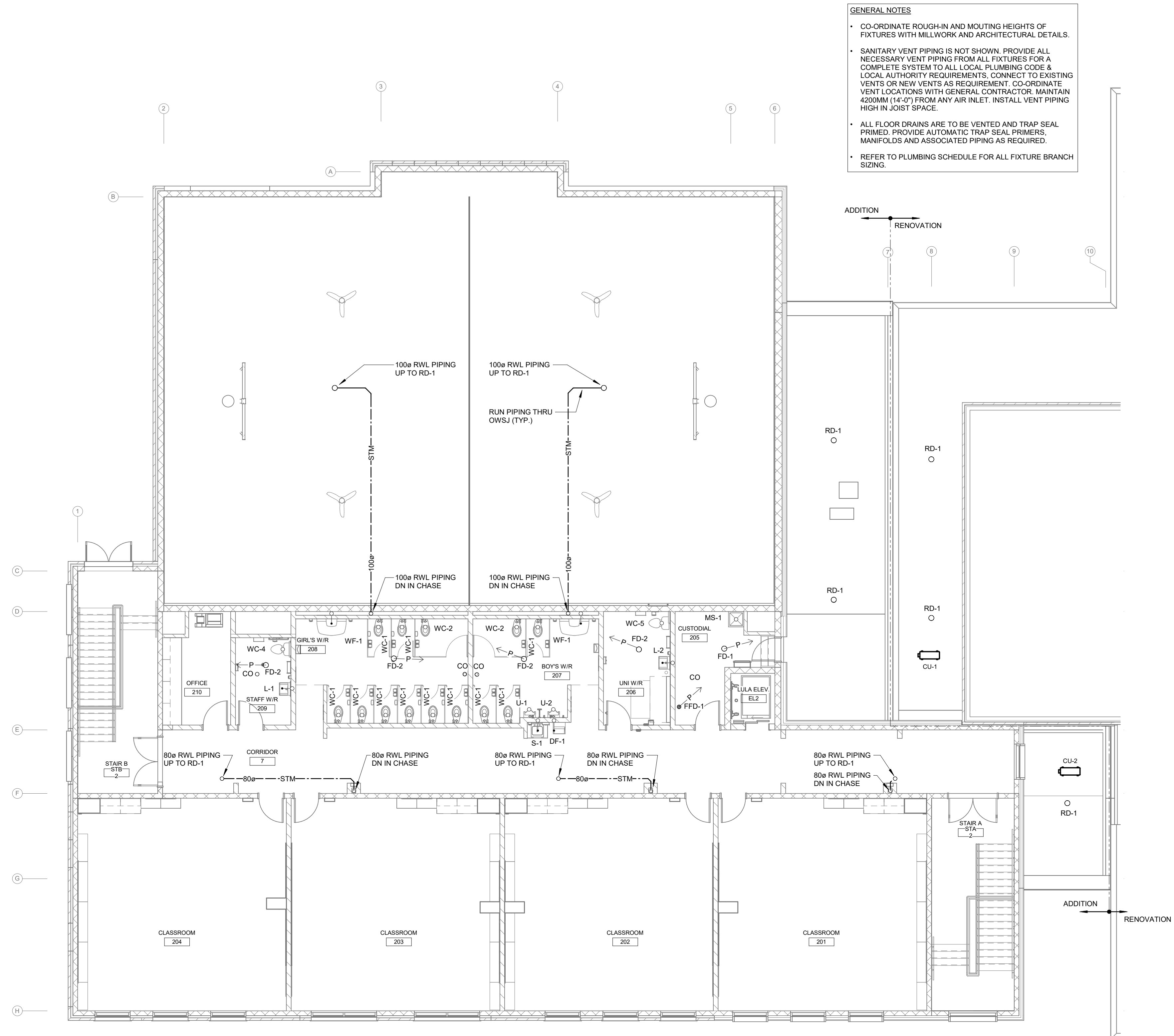
**DRAINAGE - BELOW GRADE - NEW ADDITION**



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drawn by:	AP
reviewed by:	CSP/ISO
job number:	07001
plot date:	2026-04-23 1:53:14 PM
drawing number:	

**M4.1**





**GENERAL NOTES**

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**LEVEL 2 ADDITION - DRAINAGE**  
SCALE: 1 : 100

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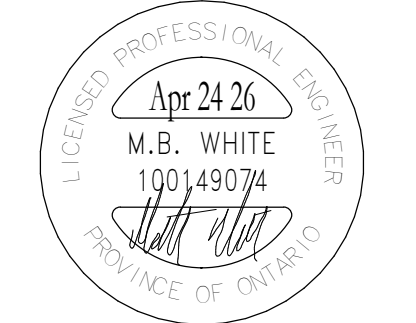
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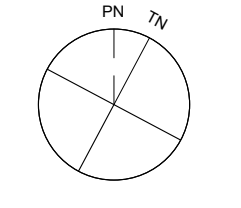
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**DRAINAGE - LEVEL 2 - NEW ADDITION**

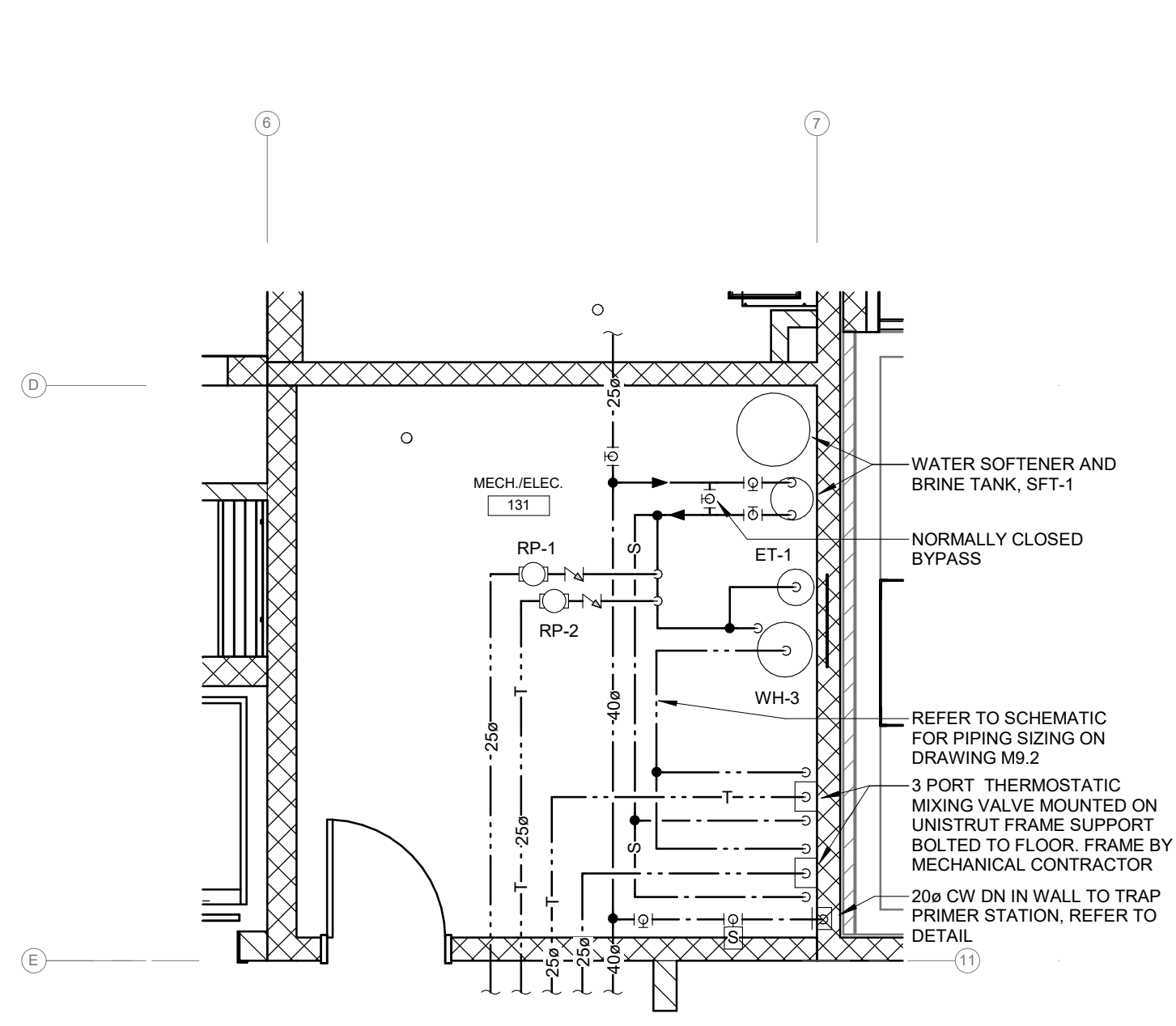


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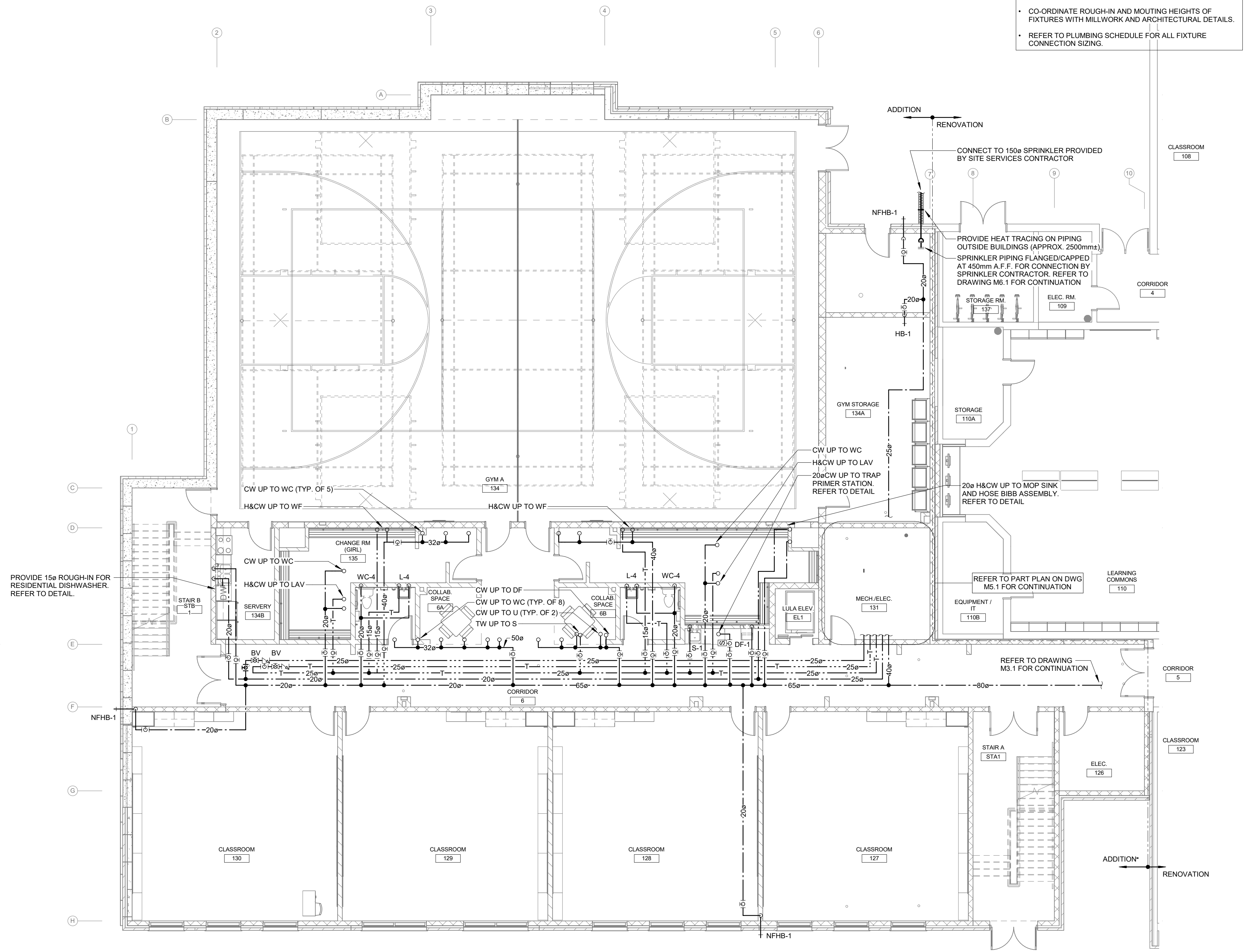
**M4.3**

**GENERAL NOTES**

- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- REFER TO PLUMBING SCHEDULE FOR ALL FIXTURE CONNECTION SIZING.



**MECHANICAL ROOM DOMESTIC PART PLAN**  
SCALE: 1:50



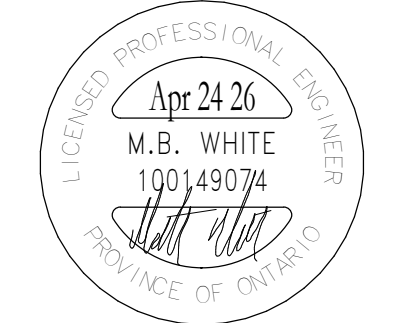
**LEVEL 1 ADDITION - PLUMBING**  
SCALE: 1:100

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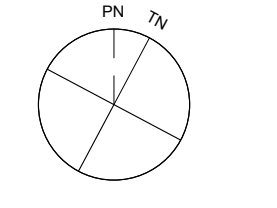
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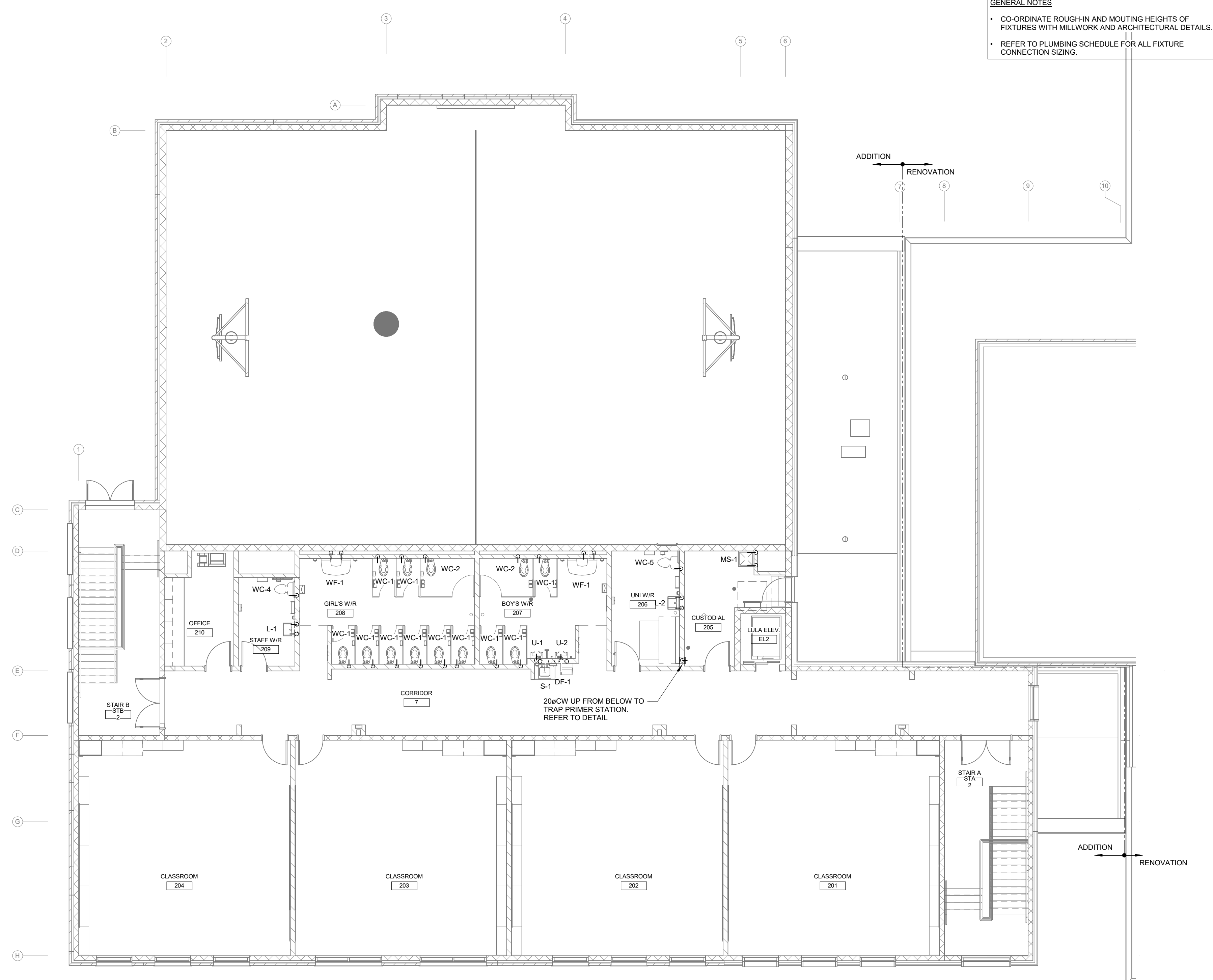
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**PLUMBING - LEVEL 1 - NEW ADDITION**



scale:	AS NOTED
drawn by:	AP
reviewed by:	CSP/ISO
job number:	07001
plot date:	2026-04-23 1:53:19 PM
drawing number:	

**M5.1**



**GENERAL NOTES**

- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- REFER TO PLUMBING SCHEDULE FOR ALL FIXTURE CONNECTION SIZING.

**LEVEL 2 ADDITION - PLUMBING**  
SCALE: 1 : 100

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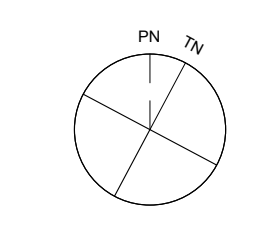
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1	25.09.05	ISSUED FOR PERMIT	MW
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**LICENSED PROFESSIONAL ENGINEER**  
Apr 24 26  
M.B. WHITE  
100149074  
PROVINCE OF ONTARIO

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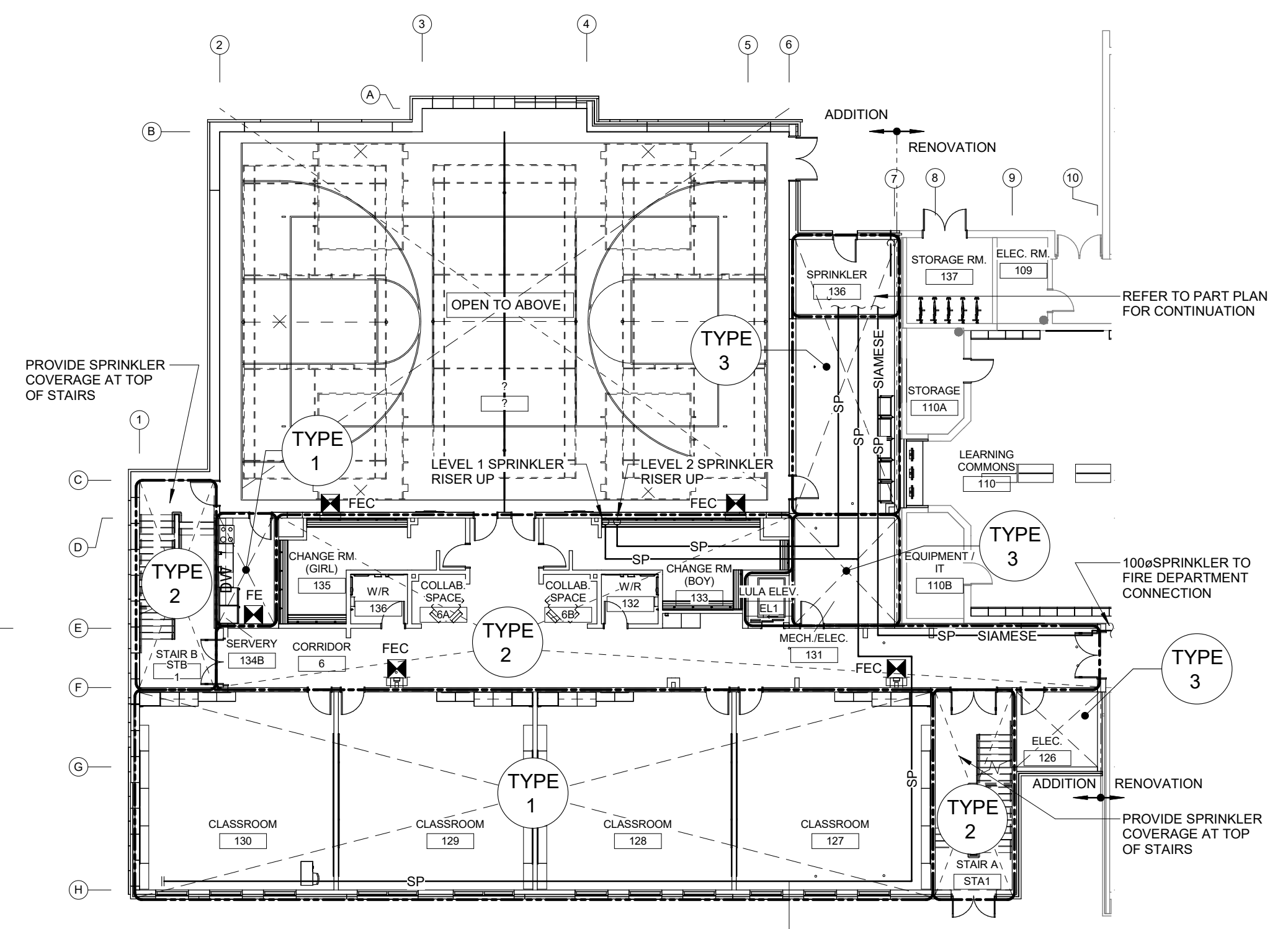
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Kitchener, ON N2N 1K8

**PLUMBING - LEVEL 2 - NEW ADDITION**

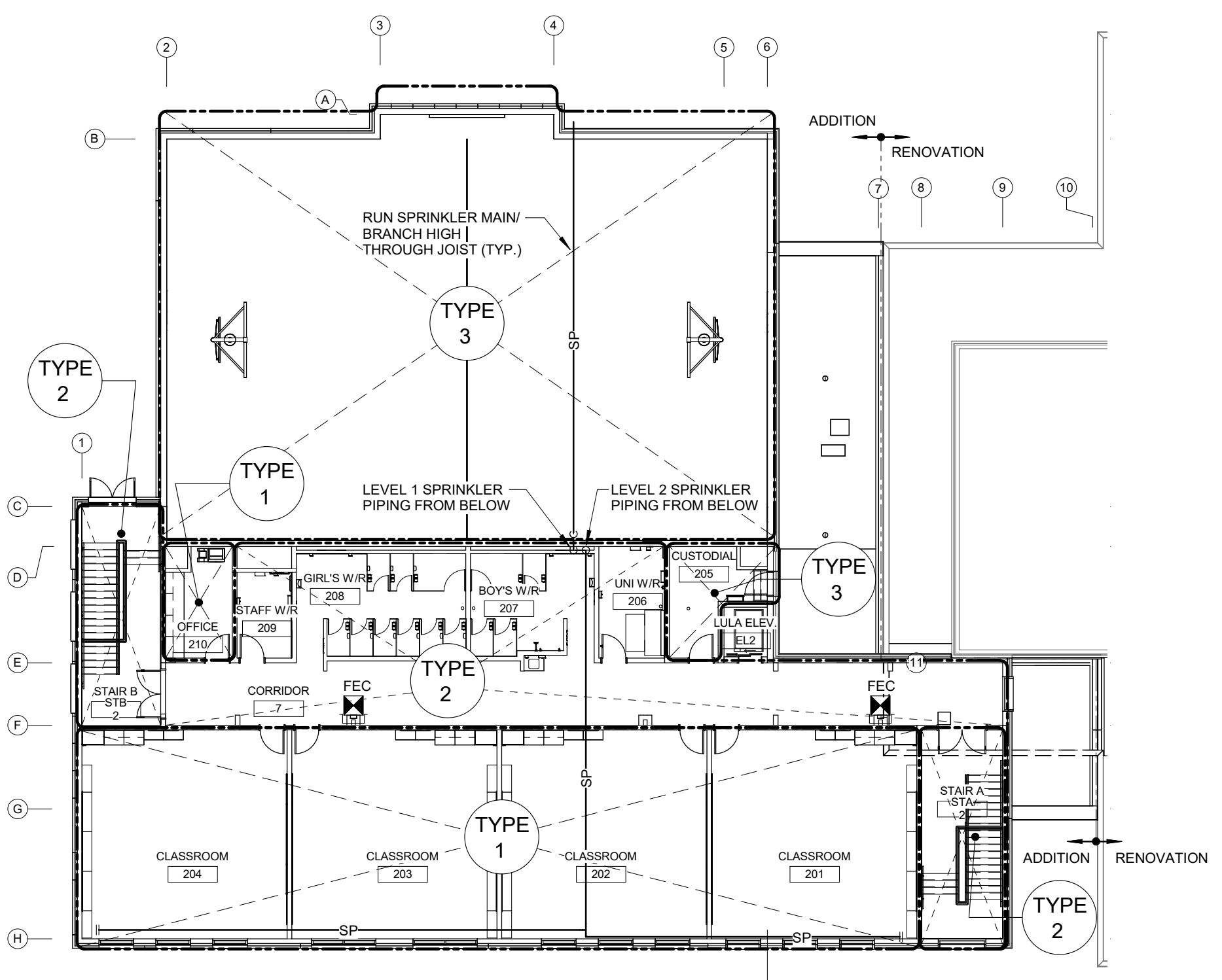


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drawing number:	

**M5.2**

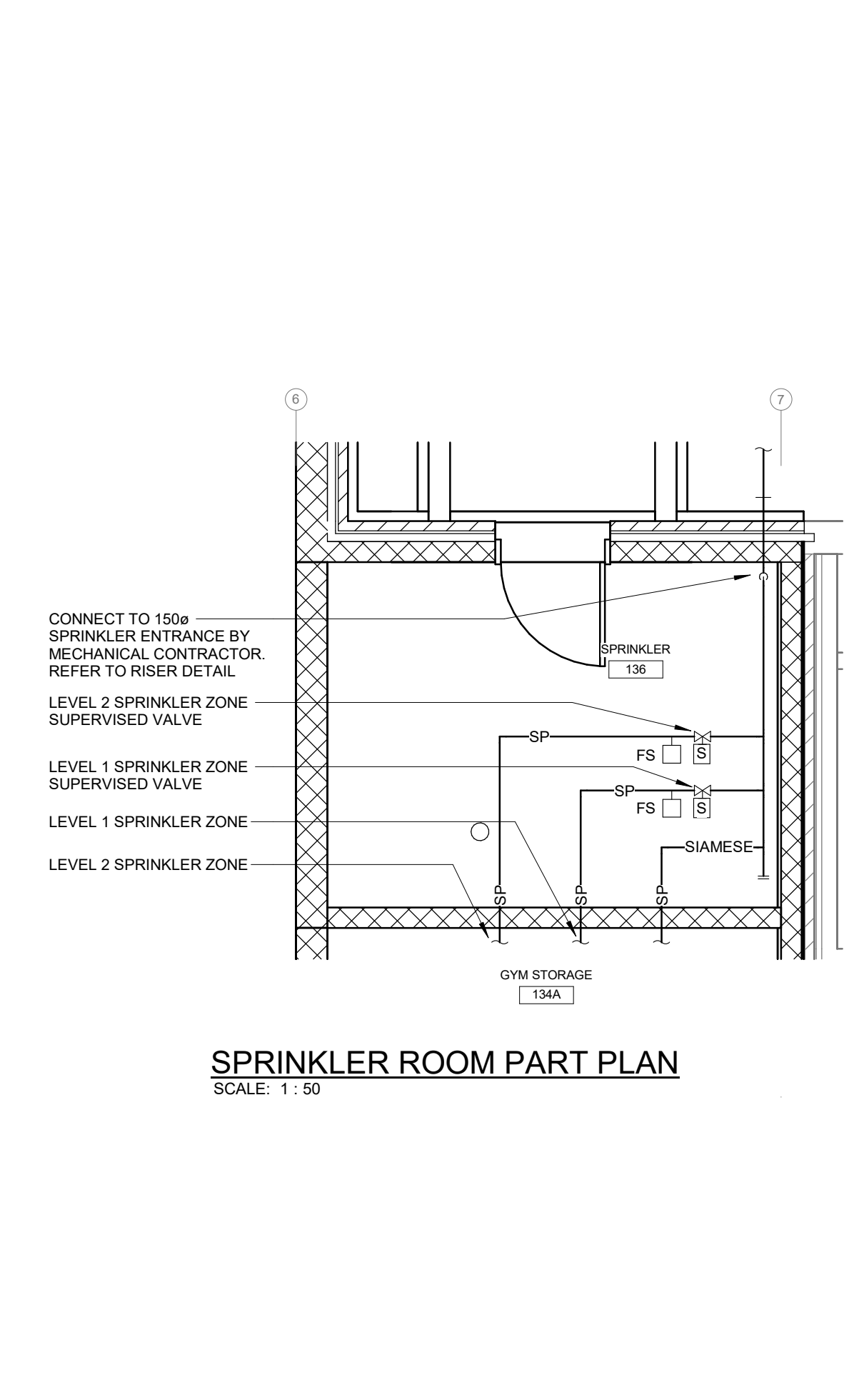
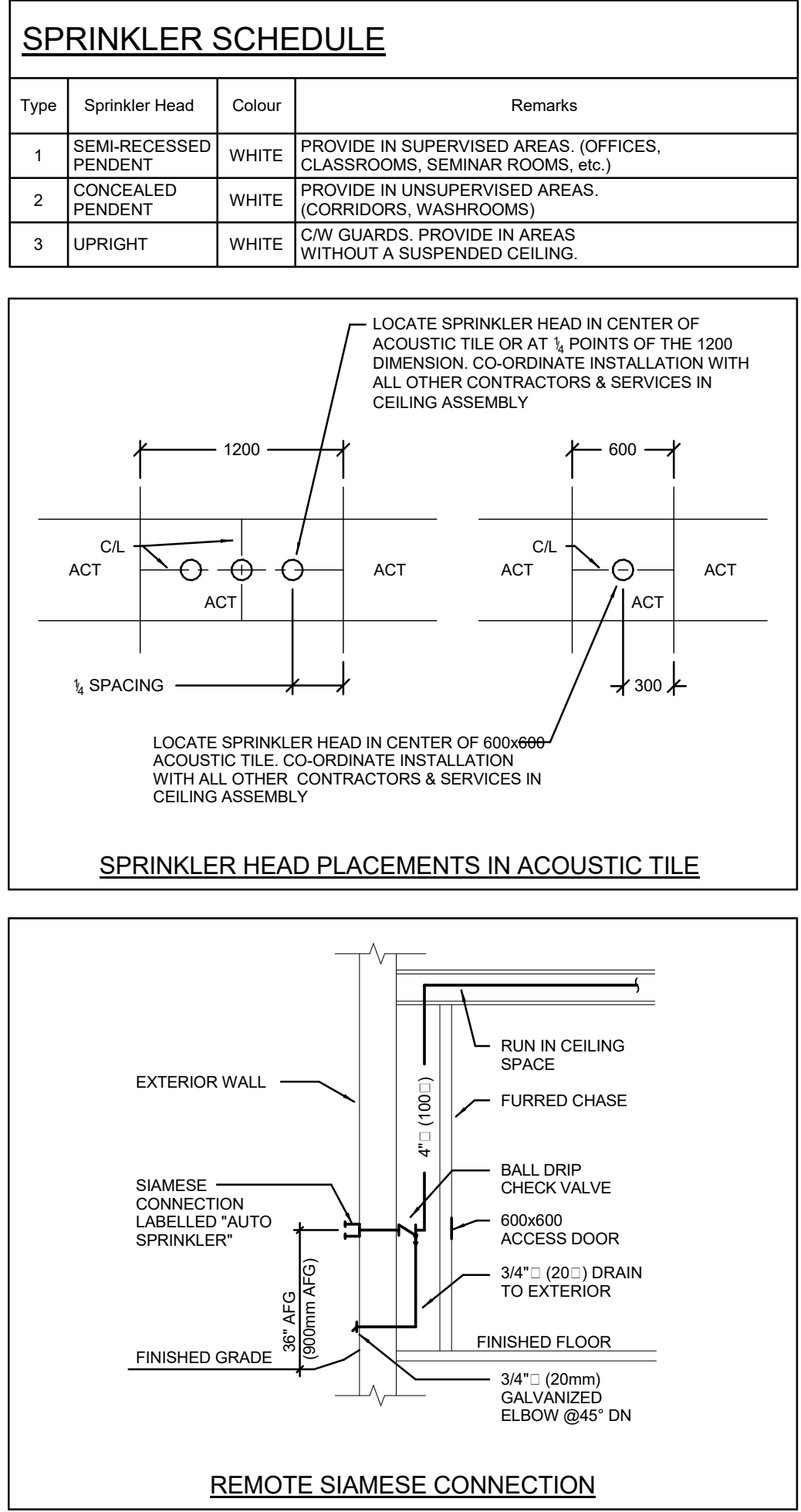
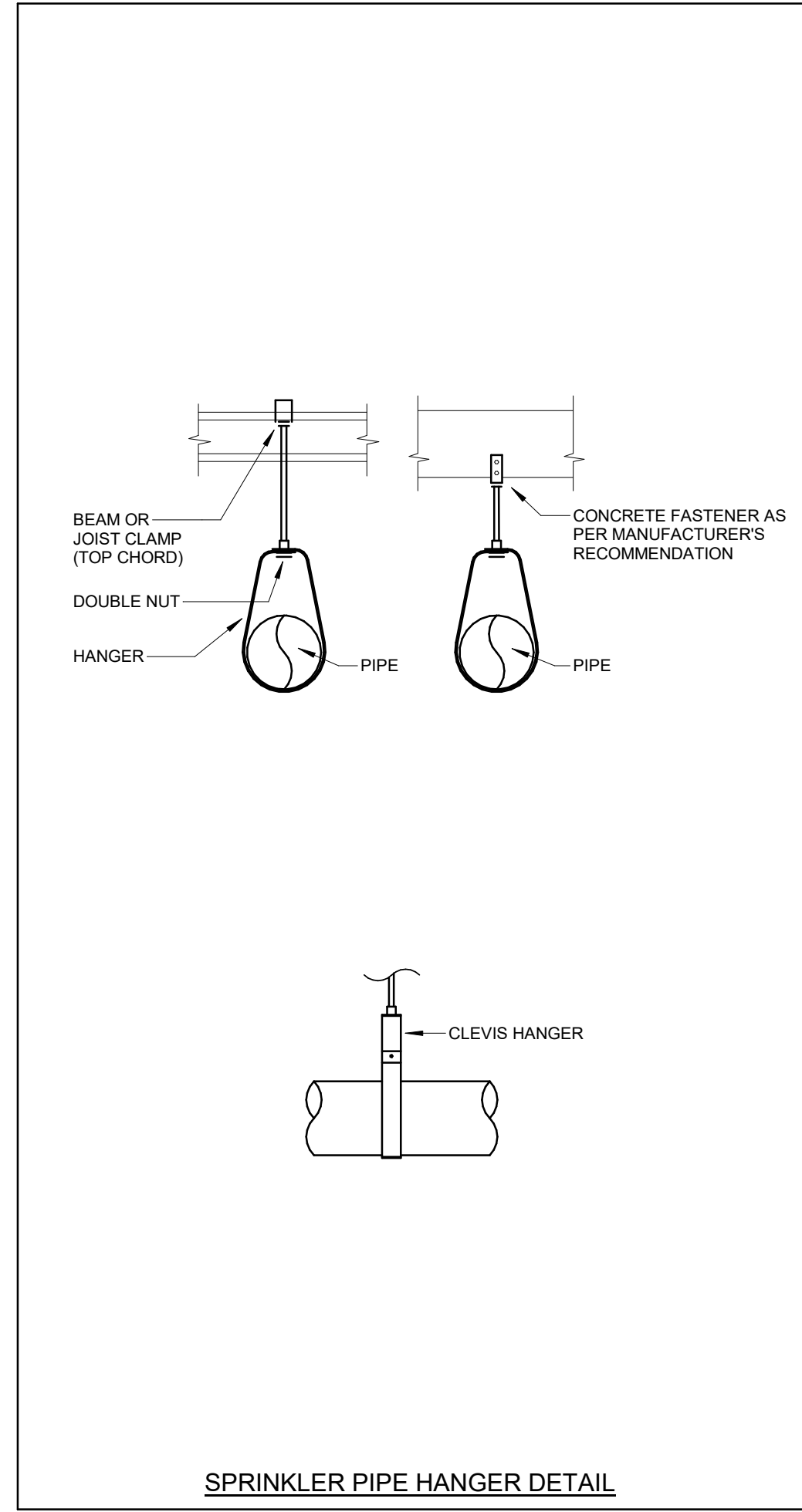
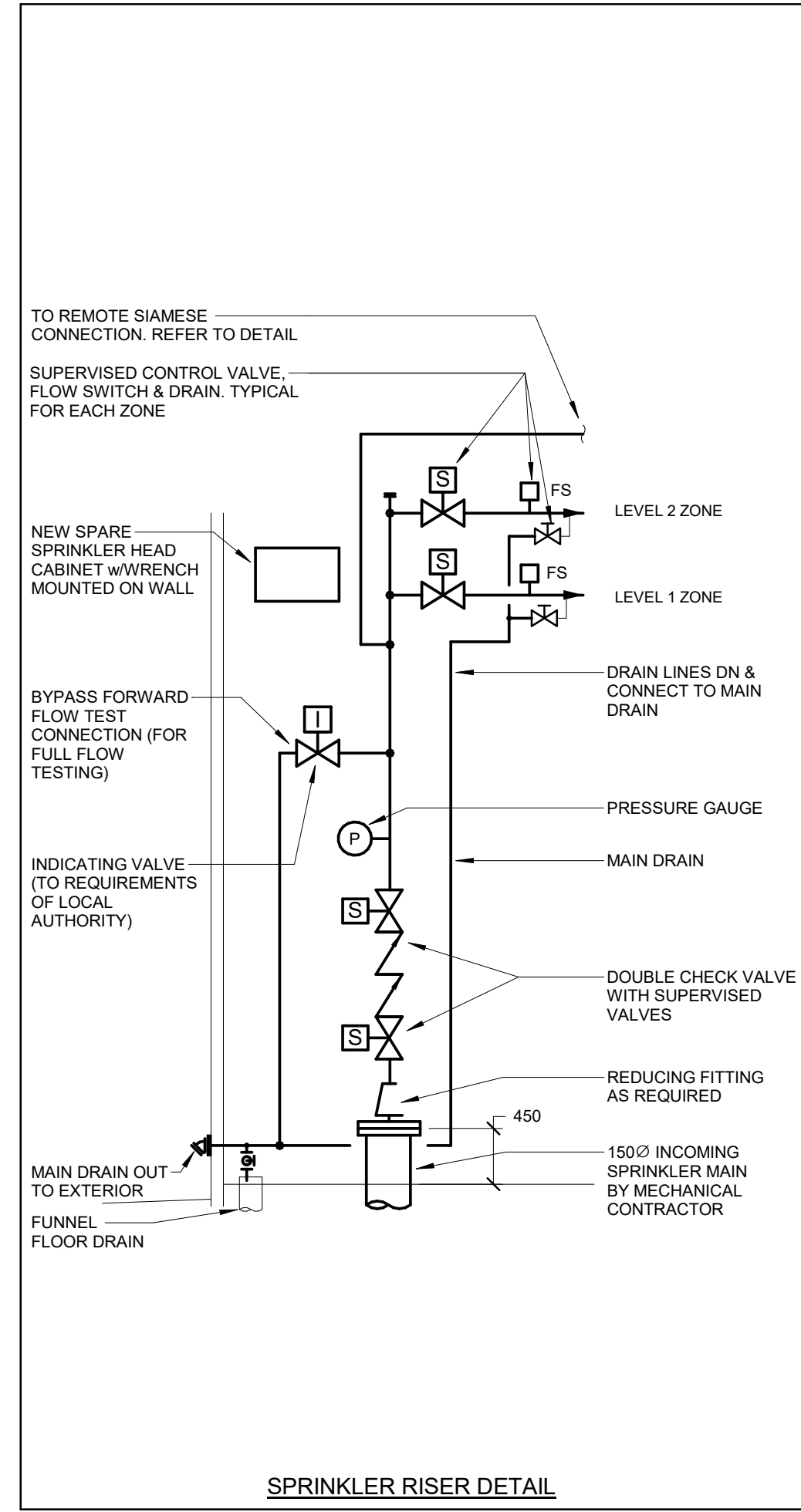


**LEVEL 1 ADDITION - FIRE PROTECTION**  
SCALE: 1 : 200



**LEVEL 2 ADDITION - FIRE PROTECTION**  
SCALE: 1 : 200

- SPRINKLER NOTES:**
- SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK.
  - ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 STANDARDS. ENSURE SPRINKLER SYSTEMS ARE INSTALLED TO NFPA 13 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1/8"=1'-0" SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
  - SPRINKLER CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
  - REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
  - PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:
    - PROVIDE UPRIGHT HEADS WITHIN 12" OF EXPOSED DECK THROUGHOUT EXPOSED STRUCTURE AREAS. PROVIDE HEAD GUARDS IN GYM AREAS WHERE HEADS ARE BELOW 8'-0" & STORAGE ROOMS.
    - PROVIDE CONCEALED PENDENT HEADS IN CEILINGS OF UNSUPERVISED AREAS (CORRIDORS, WASHROOMS). COVER PLATE FINISH SELECTED BY CONSULTANT.
    - PROVIDE SEMI-RECESSED HEADS IN ALL OTHER CEILING AREAS (CLASSROOMS, OFFICES, SEMINAR RM., etc.). HEAD & ESCUTCHEON FINISH SELECTED BY CONSULTANT.
  - SPRINKLER HEADS TO BE IN CENTRELINE OF CEILING TILE. MINIMUM 150mm (6") FROM EDGE.
  - FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
  - SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION.
  - COORDINATE LOCATION OF INSPECTOR'S TEST CONNECTION WITH CONSULTANT PRIOR TO INSTALLATION.
  - SPRINKLER CONTRACTOR TO VISIT SITE AND EVALUATE EXISTING CONDITIONS PRIOR TO TENDER CLOSING. INCLUDE ALL MODIFICATIONS IN TENDER PRICE.
  - EXISTING SPRINKLER SYSTEM TO BE RENOVATED/MODIFIED TO SUIT NEW LAYOUT. CONTRACTOR IS RESPONSIBLE TO SURVEY EXISTING SYSTEMS FOR CREATION OF SHOP DWGS.
  - PROVIDE SPRINKLER HEADS UNDER ALL DUCTWORK AND EQUIPMENT OVER 1200mm WIDE.
  - COMMISSIONING OF INTEGRATED TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEM.
    - SPRINKLER CONTRACTOR TO PROVIDE SERVICES WITH THE FIRE COMMISSIONING AGENT (FCA) TO MEET THEIR REQUIREMENTS OF ADMINISTRATION, VERIFICATION, AND FINAL SIGNOFF TO THE LOCAL AUTHORITIES AND CONSULTANT. THE FCA IS BEING RETAINED BY THE ELECTRICAL CONTRACTOR. HOWEVER, THIS CONTRACTOR'S WORK TO SATISFY THE FCA REQUIREMENTS SHALL BE INCLUDED IN THE TENDER PRICE.
    - CHECK/TEST MOVEMENT OF ALL VALVES, CREATE WATER FLOW AT ALL DEVICES TO VERIFY DETECTION AT FIRE ALARM PANEL, OPERATION OF ALL PUMPS &/OR COMPRESSORS.
    - PERFORM ALL WORK IN ACCORDANCE WITH NFPA 13.
    - RETURN SPRINKLER/STANDPIPE SYSTEM TO NORMAL OPERATION ON COMPLETION OF TESTING.



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100149074  
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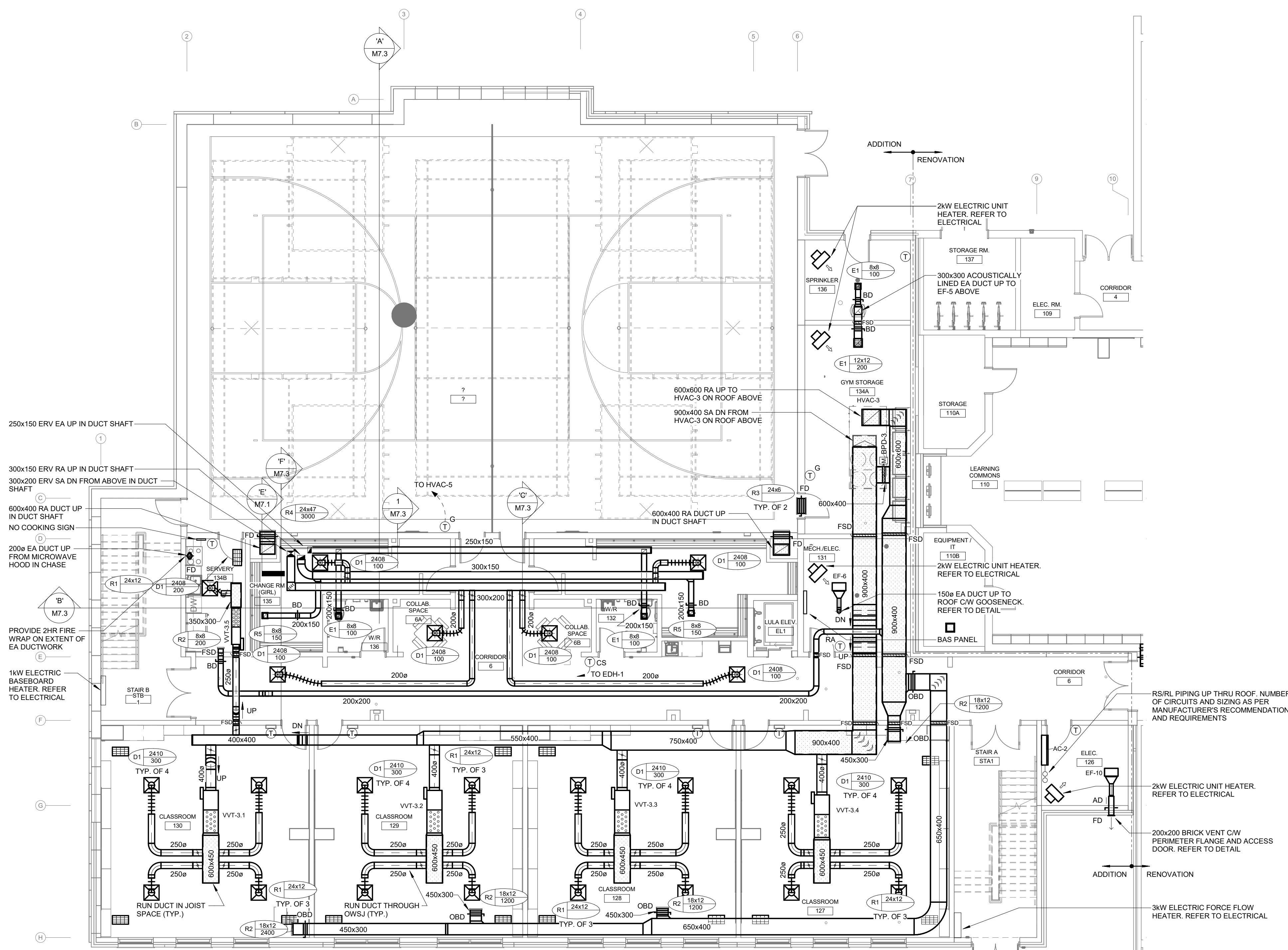
**FIRE PROTECTION - NEW ADDITION**



scale: AS NOTED

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reviewed by:	CSP/SO
job number:	07001
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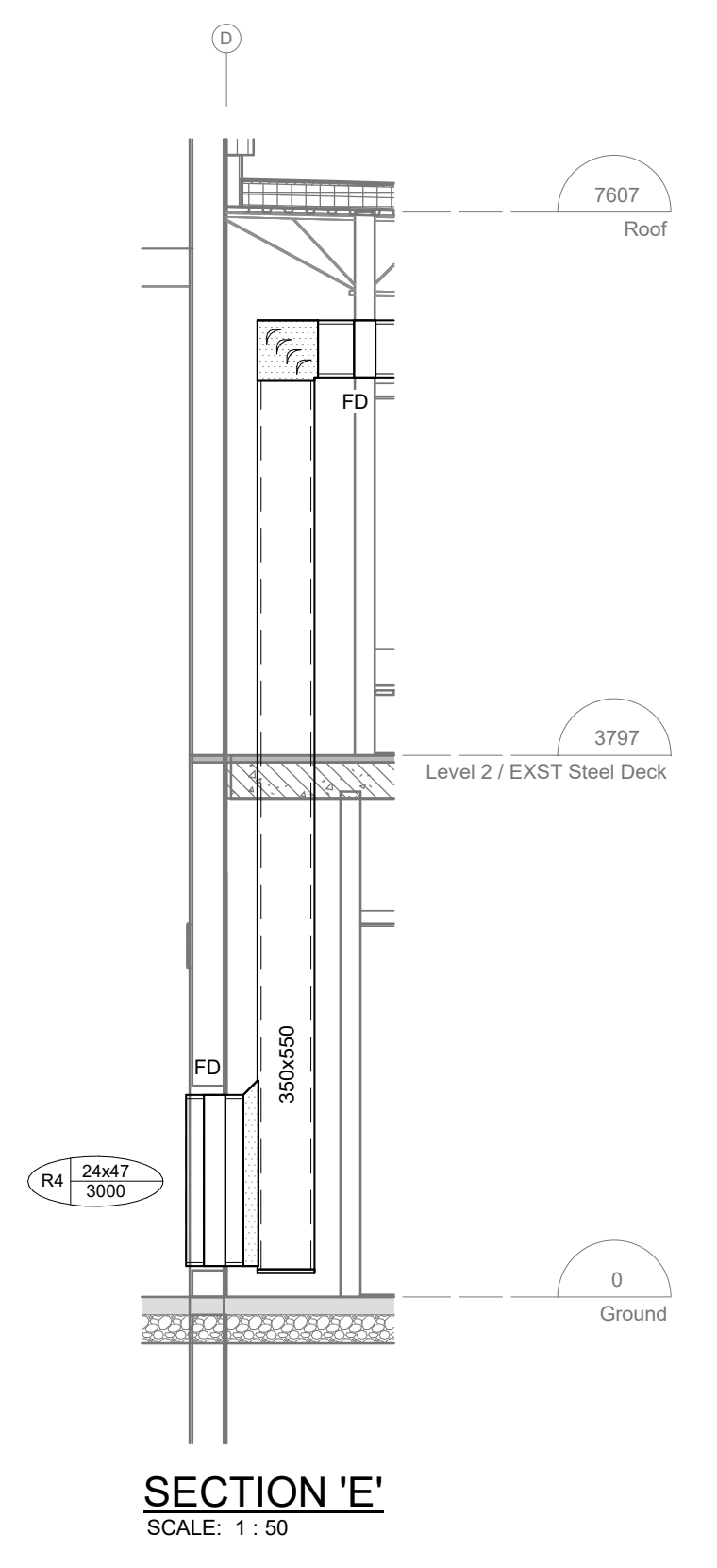
**M6.1**



**LEVEL 1 ADDITION - VENTILATION & HEATING**  
SCALE: 1 : 100

**GENERAL NOTES**

- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT GRILLEDIFFUSER LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCTS BETWEEN OWSJ.
- REFER TO STRUCTURAL FOR EXACT LOCATIONS OF ROOF AND WALL PENETRATIONS FOR DUCTWORK.



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vsands.com

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(519) 667-3322  
rka.ca

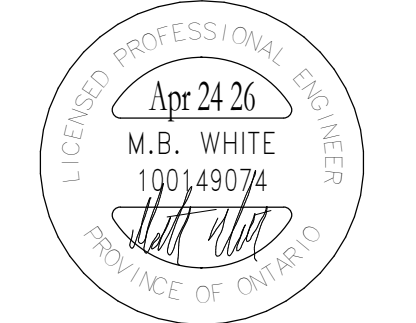
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(519) 743-6500  
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(519) 578-3660  
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Phone: 519-725-3555  
Website: deiasociates.ca  
Project Number: 2026-04-23

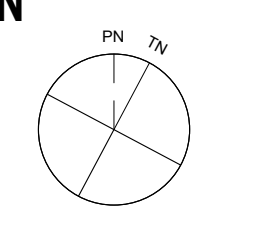
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2	25.12.17	ISSUED FOR PERMIT RESPONSE	MW
1	25.09.05	ISSUED FOR PERMIT	MW
#	date:	revision:	by:



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Kitchener, ON N2N 1K8

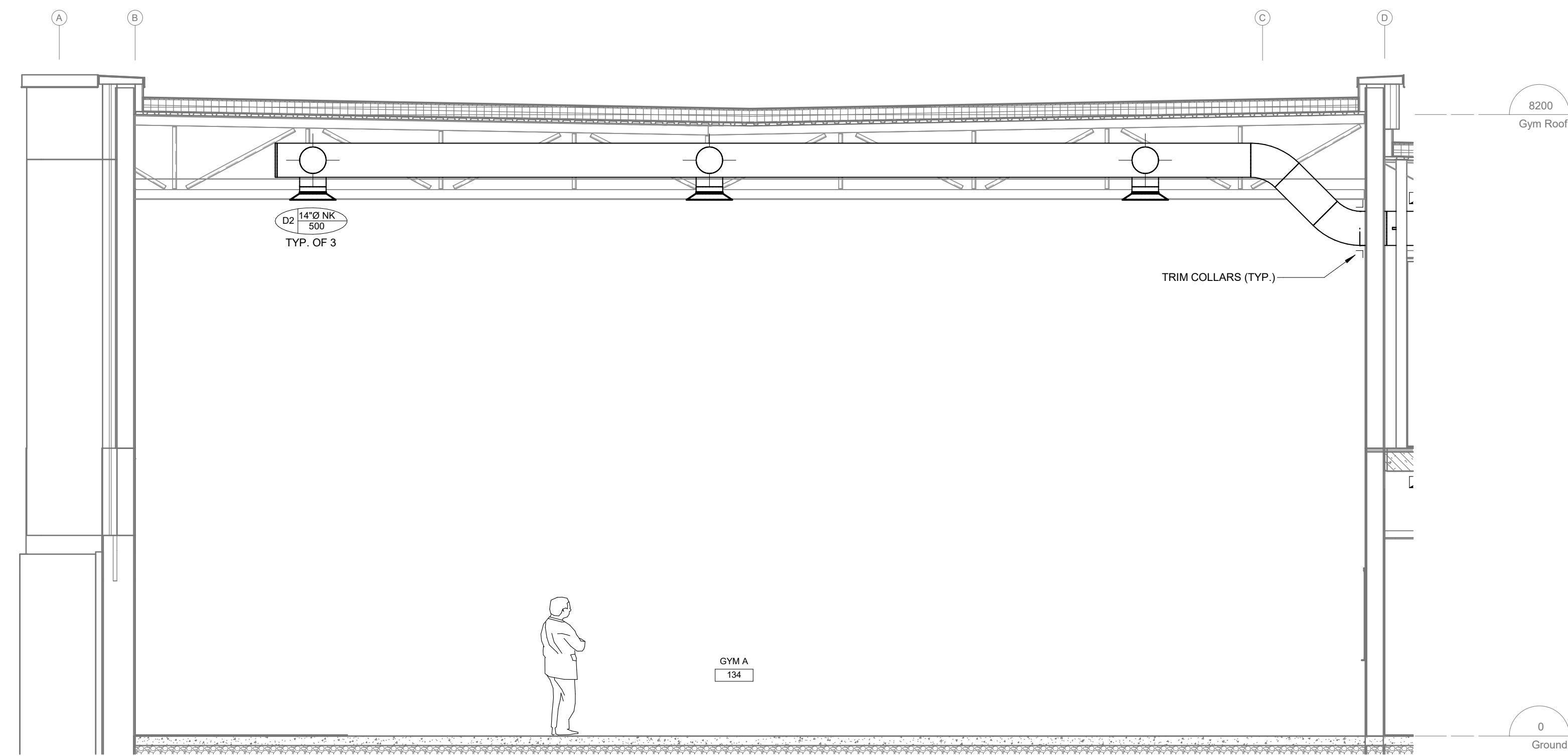
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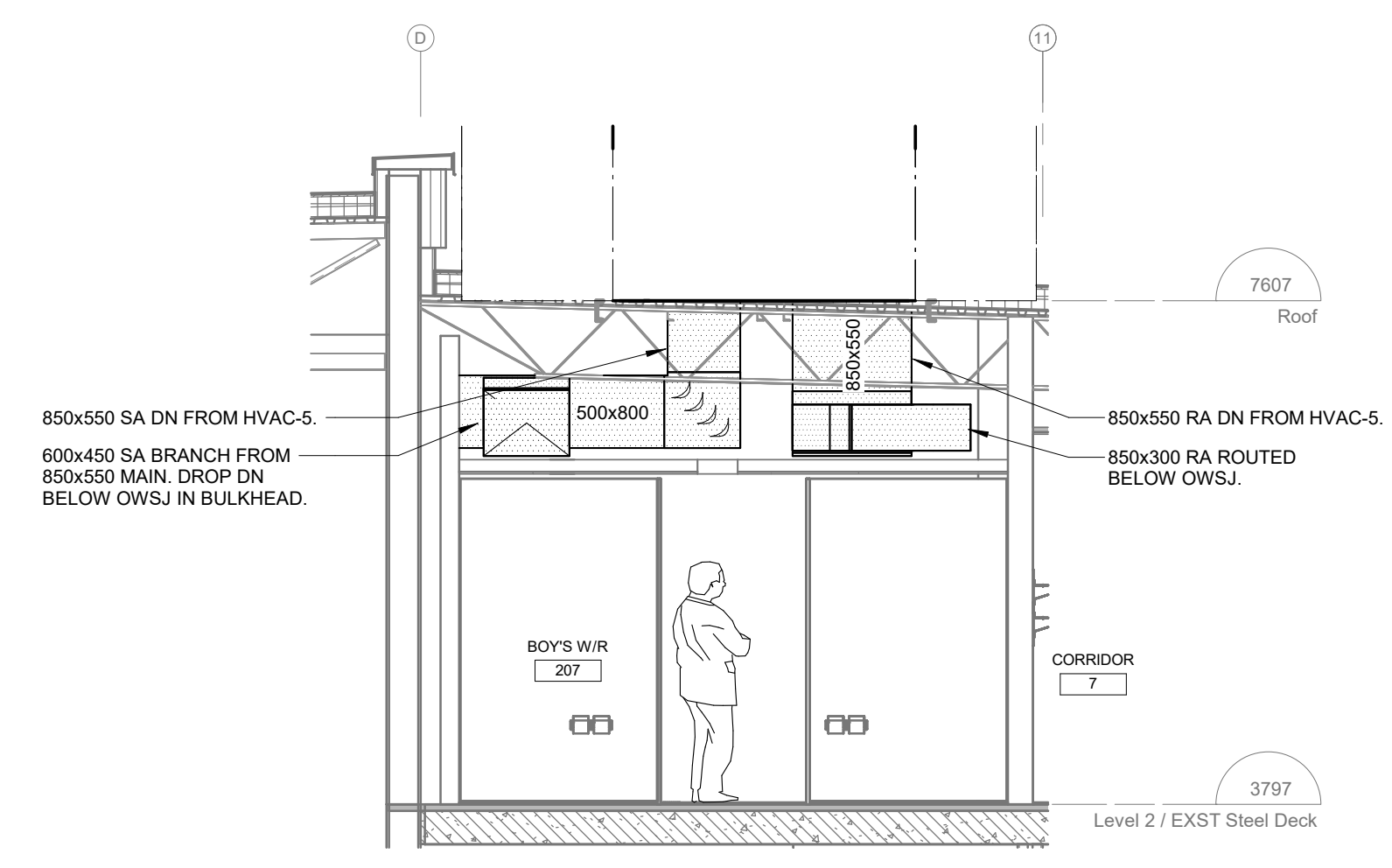
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**M7.1**

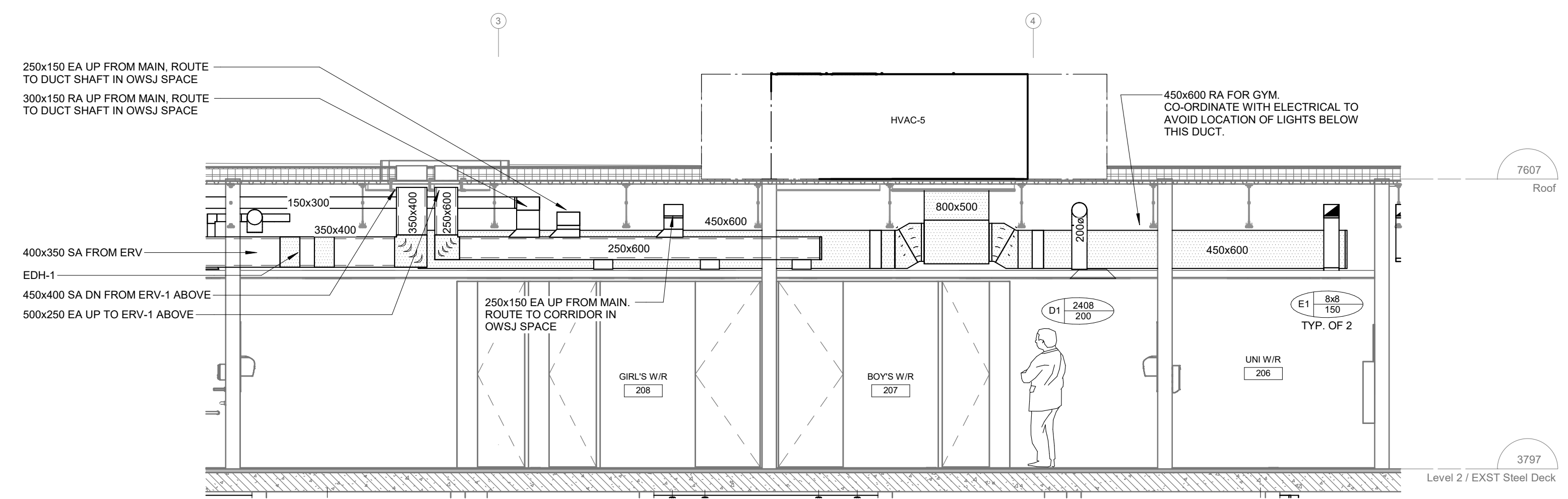




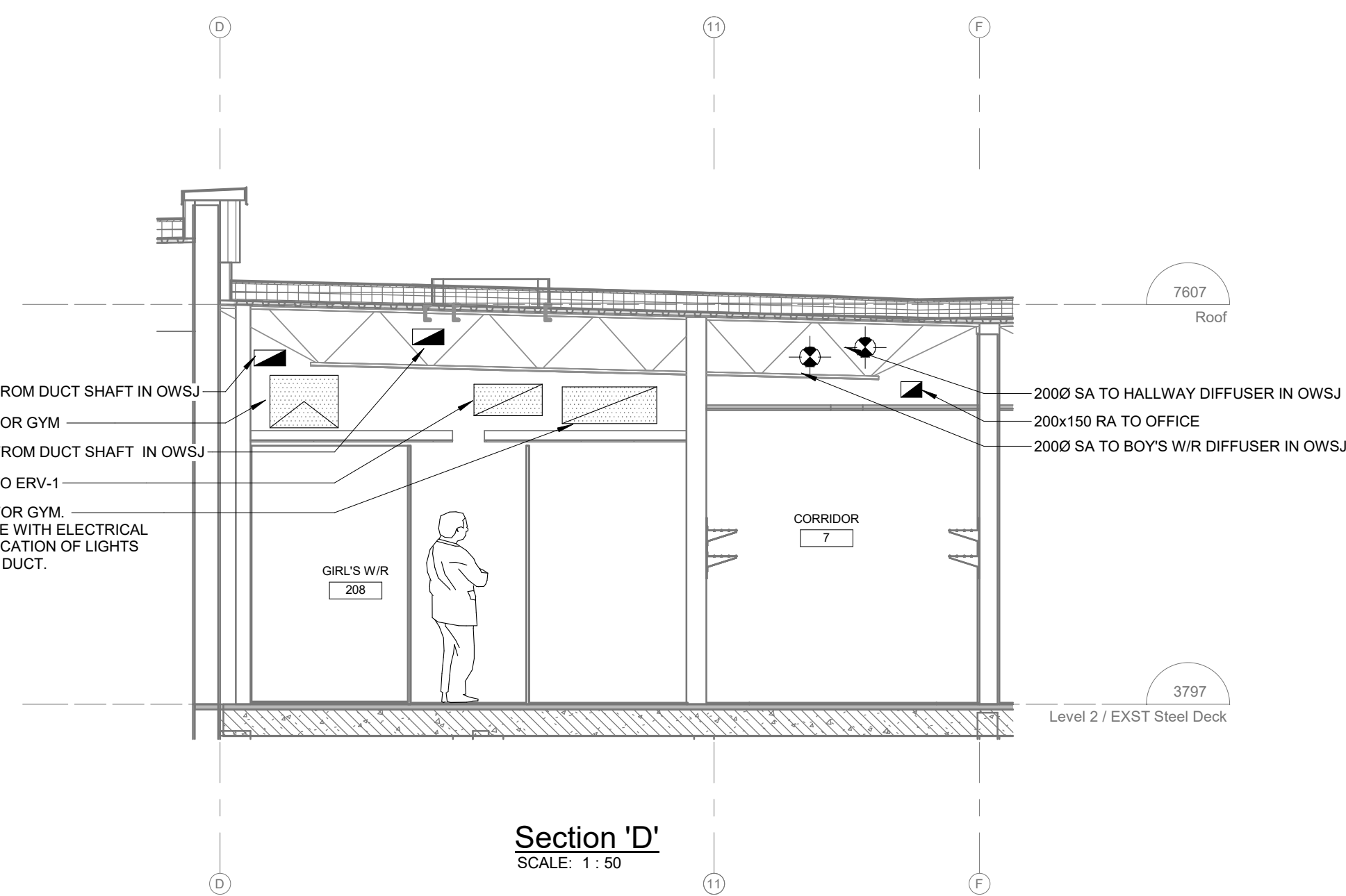
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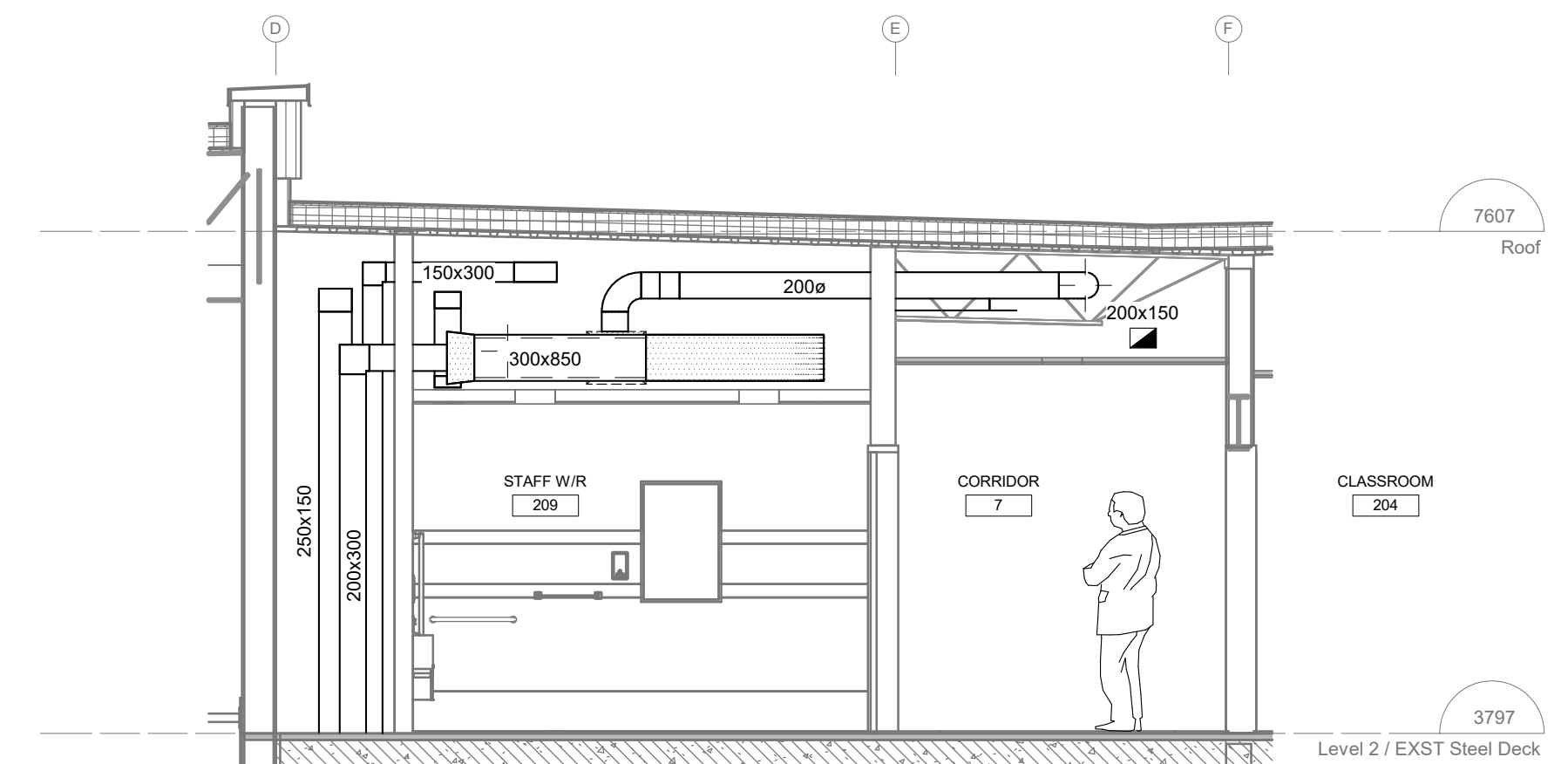
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**Section 'B'**  
SCALE: 1 : 50



**Section 'D'**  
SCALE: 1 : 50



**Section 'F'**  
SCALE: 1 : 50

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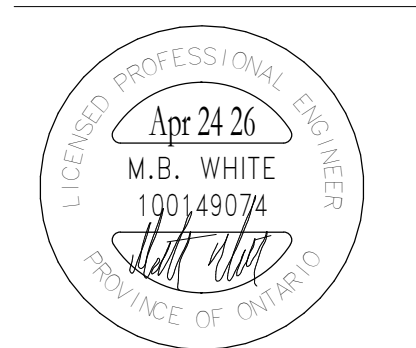
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Website: deiasociates.ca  
Project Number: 2026-04-23

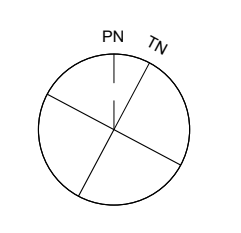
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4	25.04.10	ISSUED FOR TENDER	MW
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#	date:	revision:	by:



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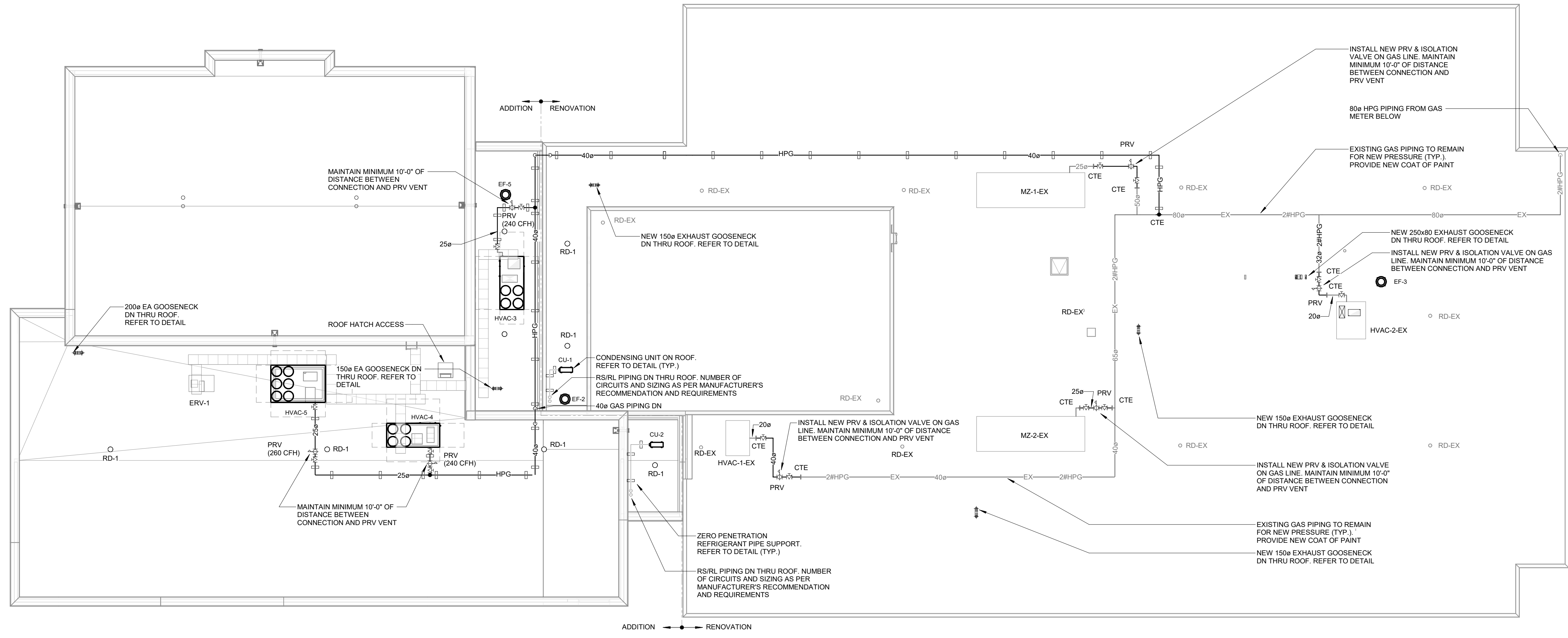
**St. Marks CES Renovations**  
240 Assum Hill Crescent  
Kitchener, ON N2N 1K8

**SECTIONS**

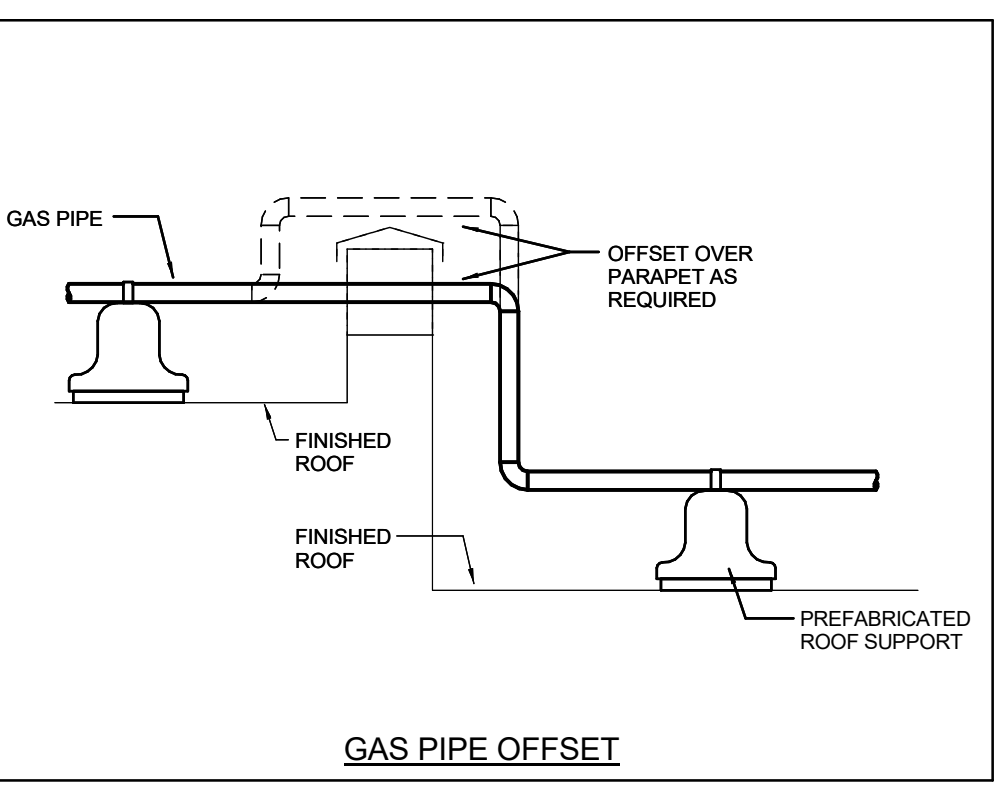
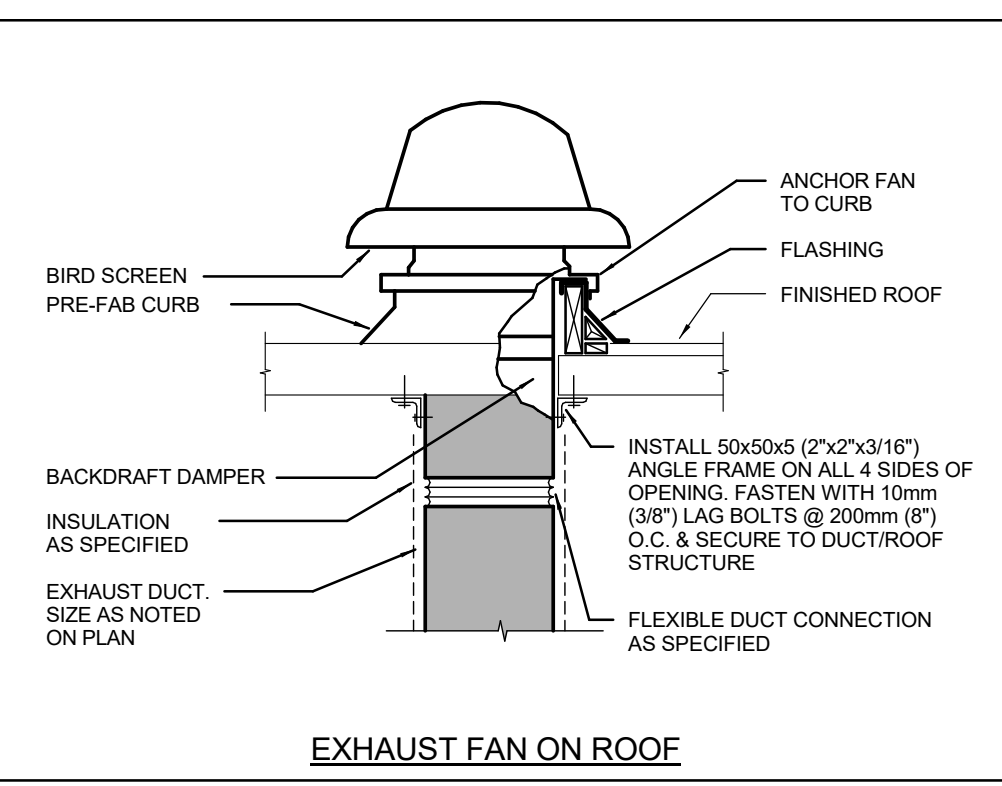
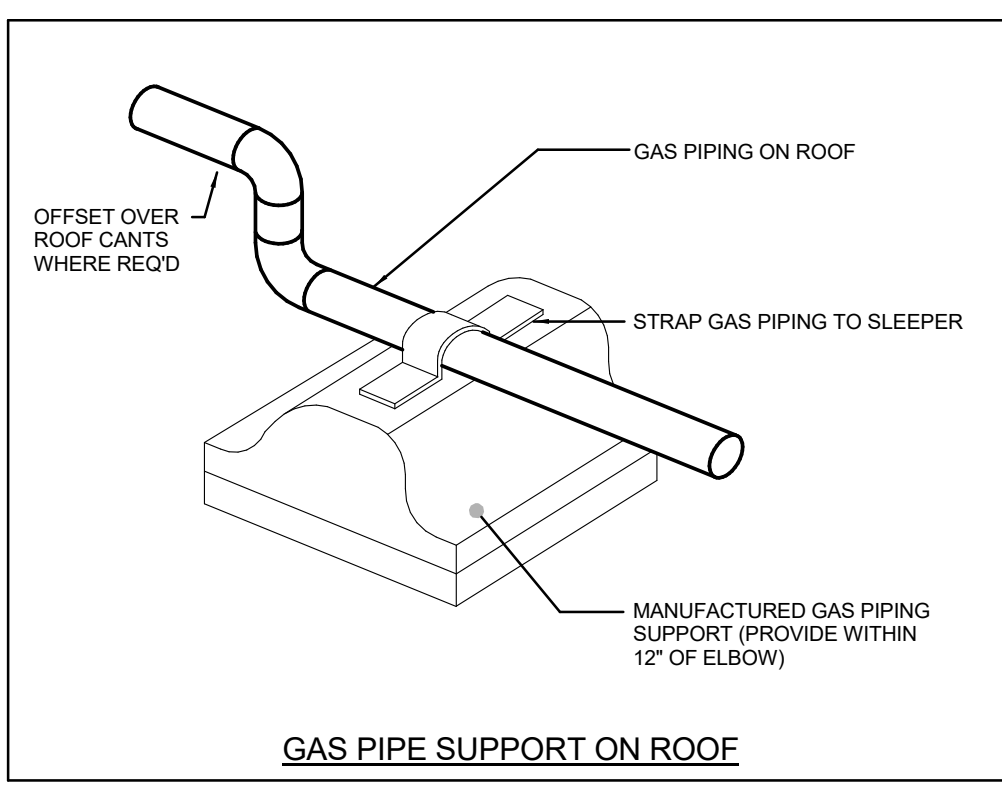
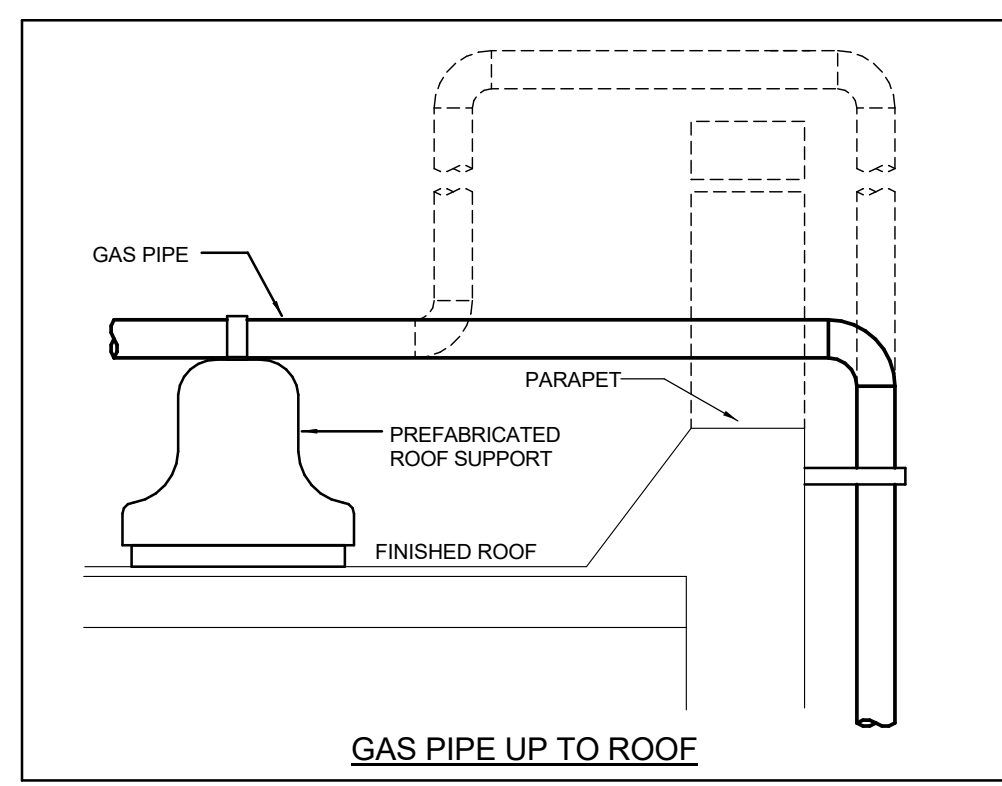


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**M7.3**

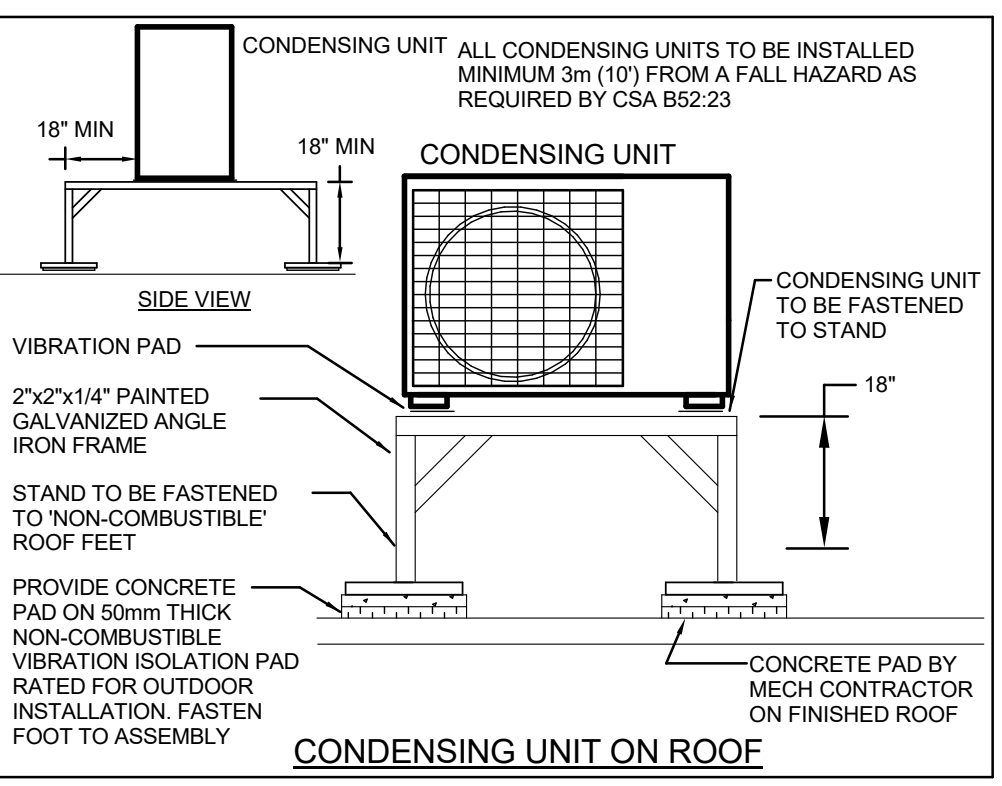
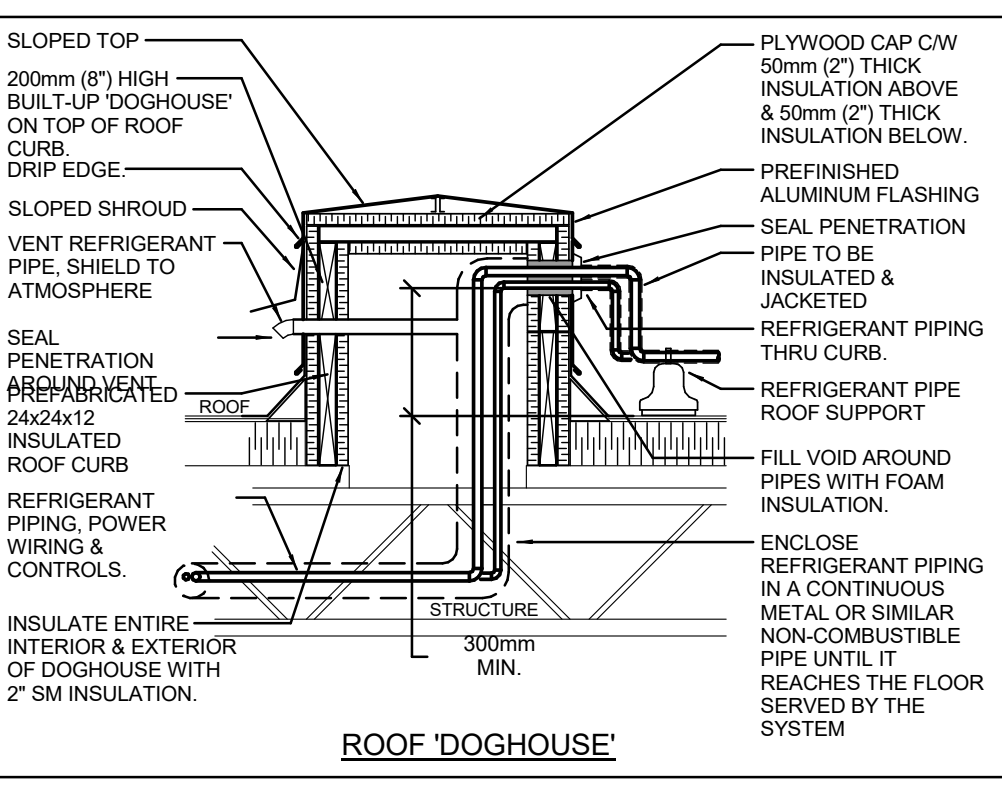
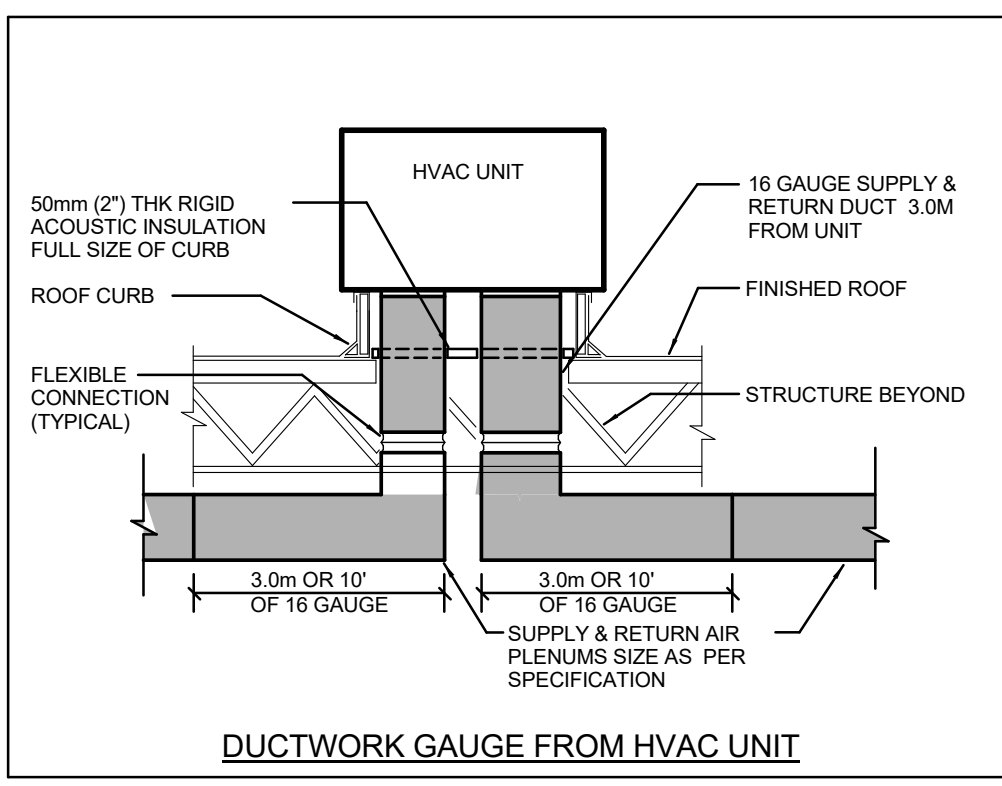


**ROOF PLAN - ADDITION & RENOVATION**  
SCALE: 1: 150



**GENERAL NOTES**

- MAINTAIN MINIMUM 4200mm (14'-0") LATERAL DISTANCE BETWEEN SANITARY AND/OR RV VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0M FROM EDGE OF ROOF.



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4	26.04.10	ISSUED FOR TENDER	MW
1	25.09.05	ISSUED FOR PERMIT	MW
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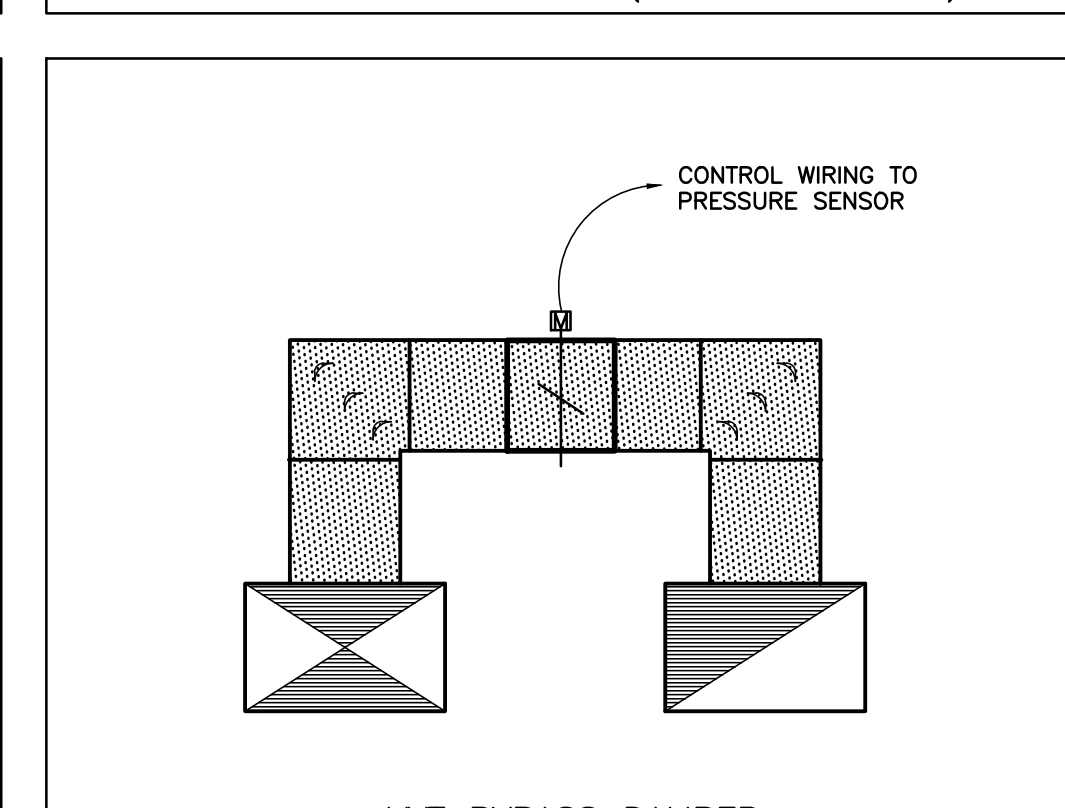
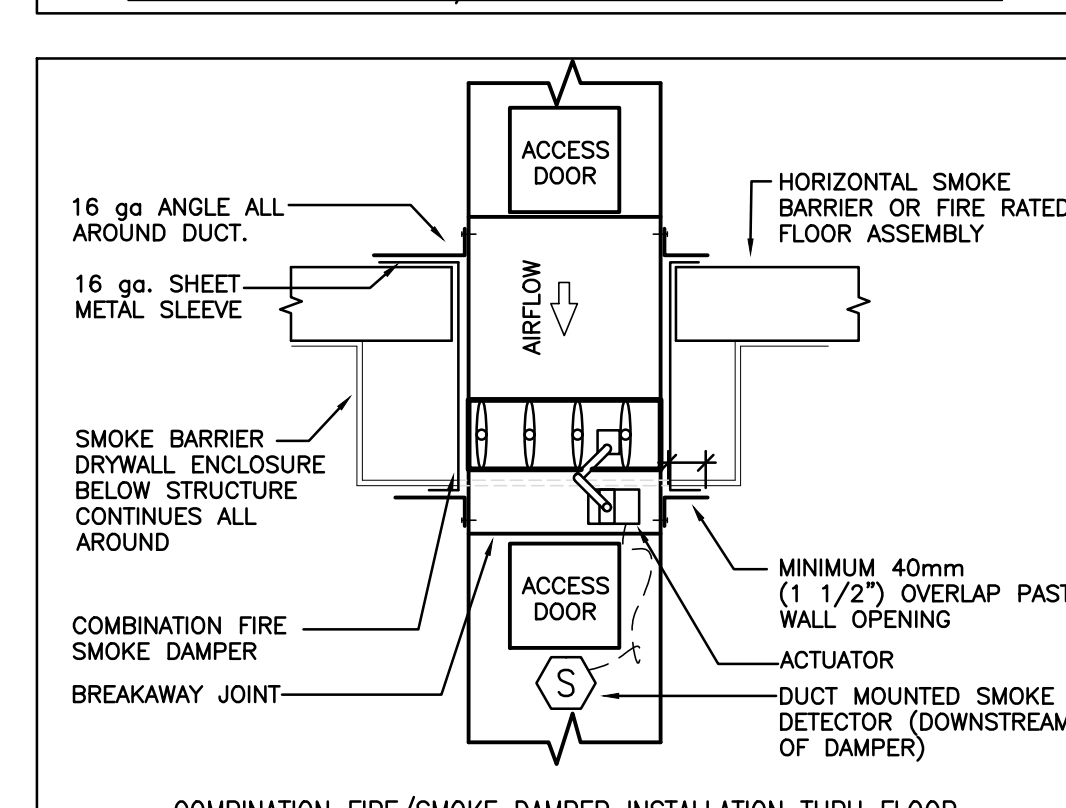
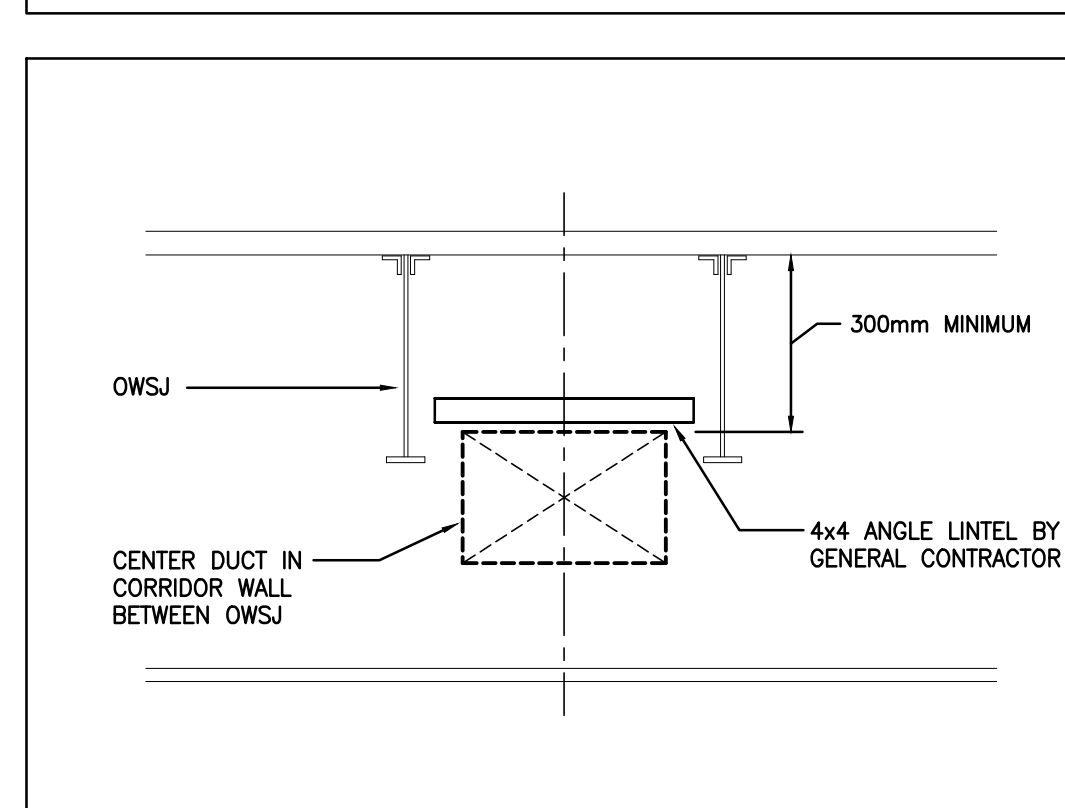
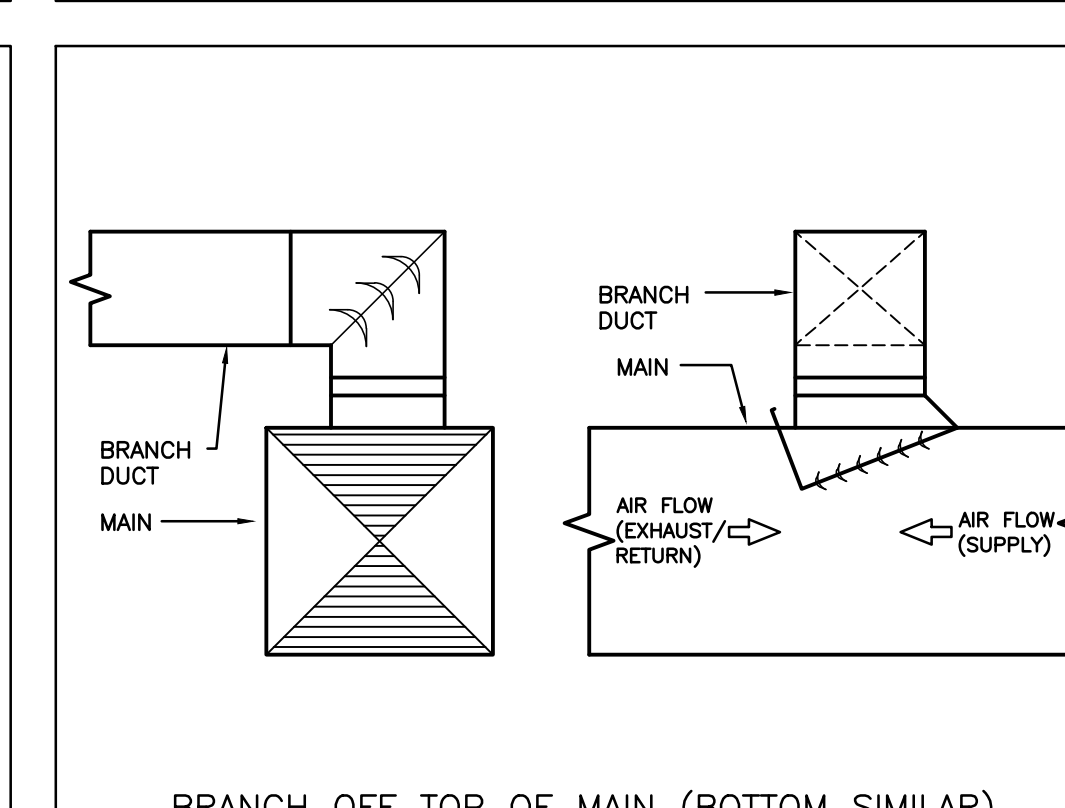
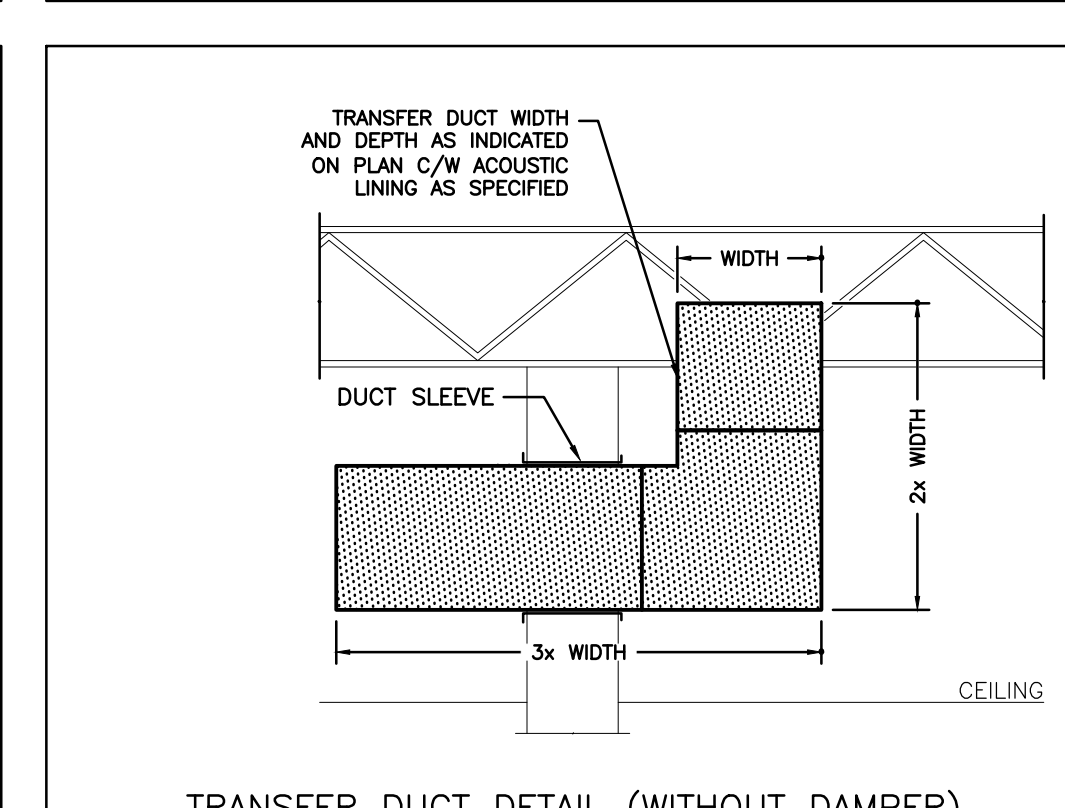
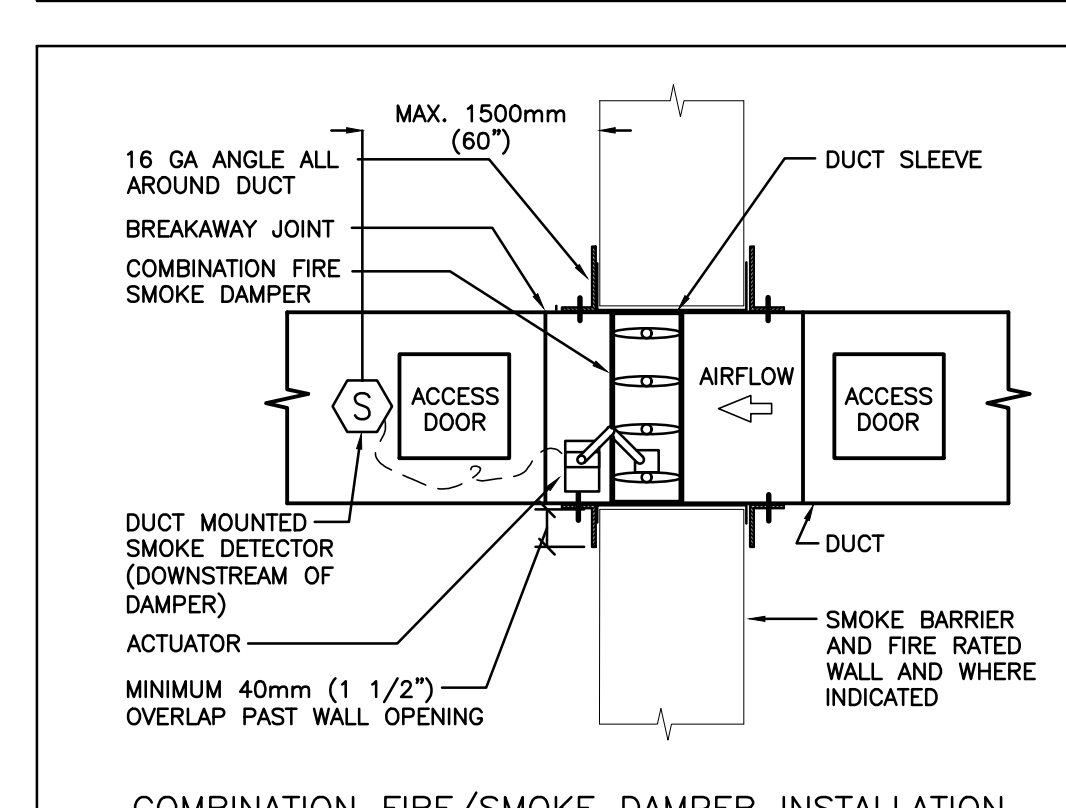
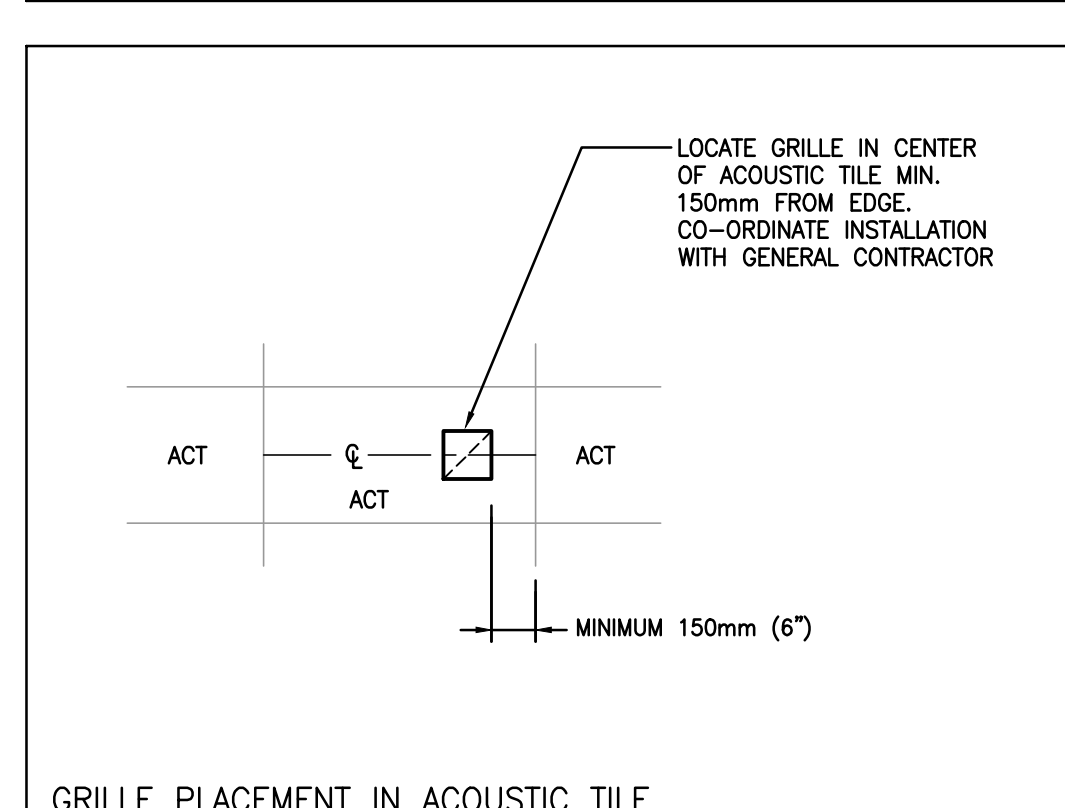
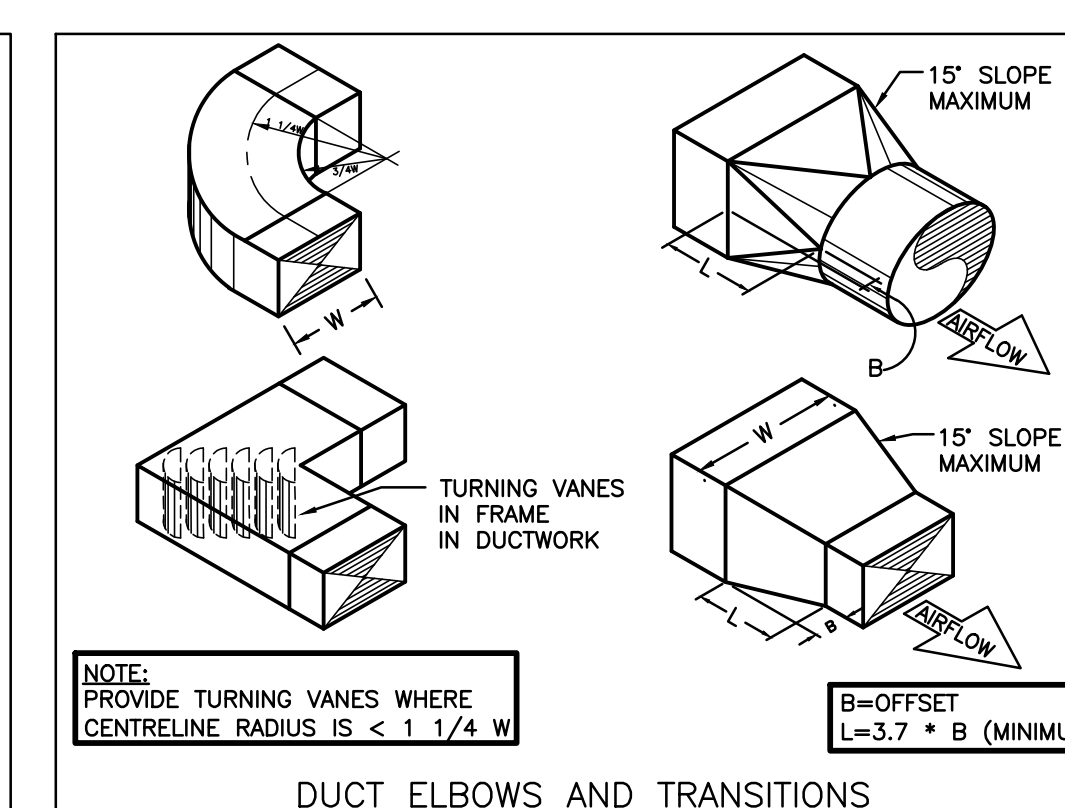
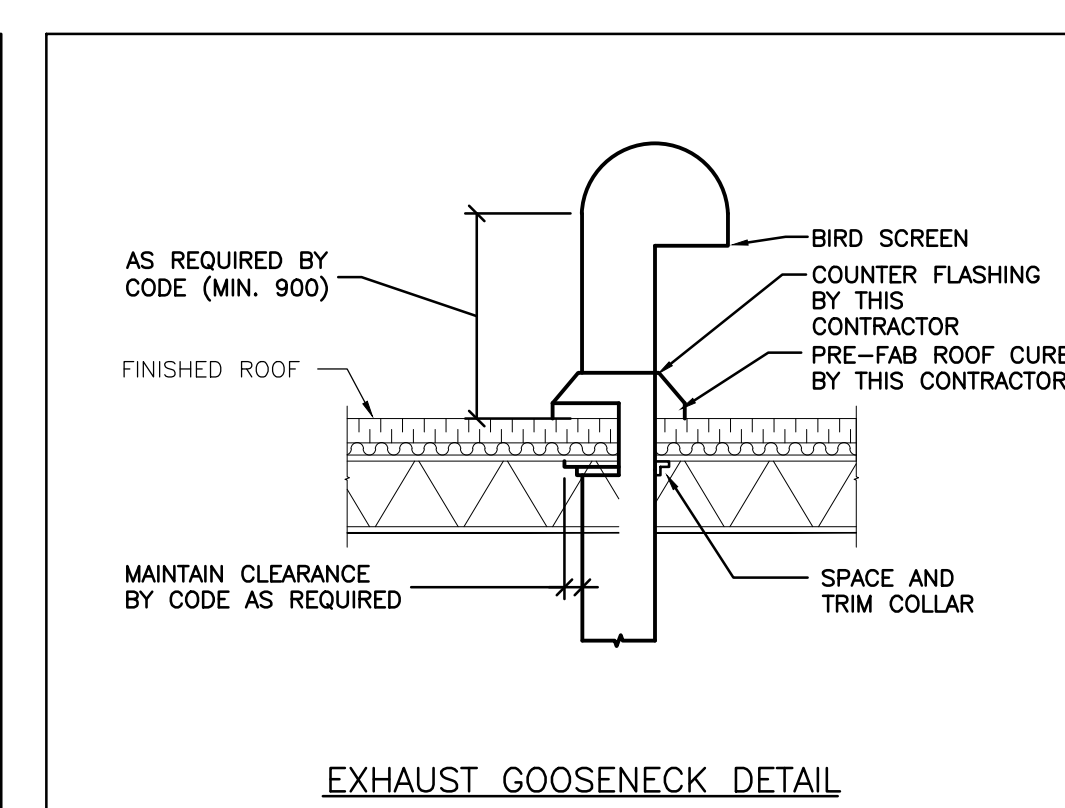
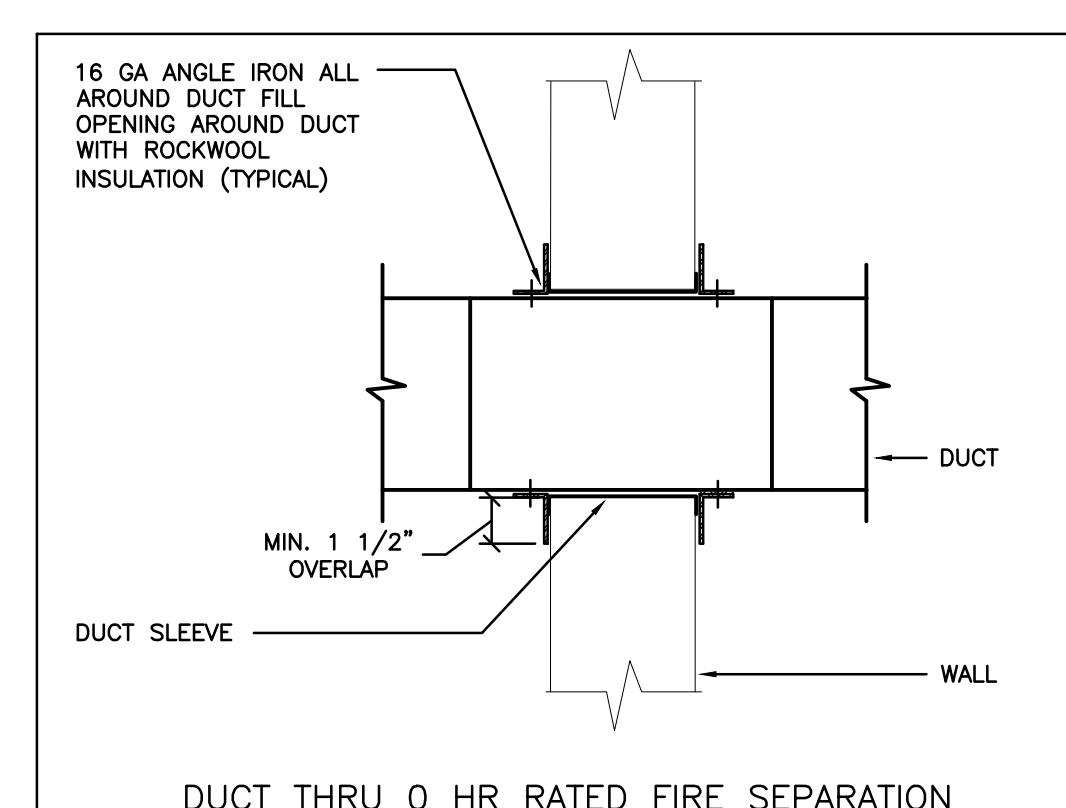
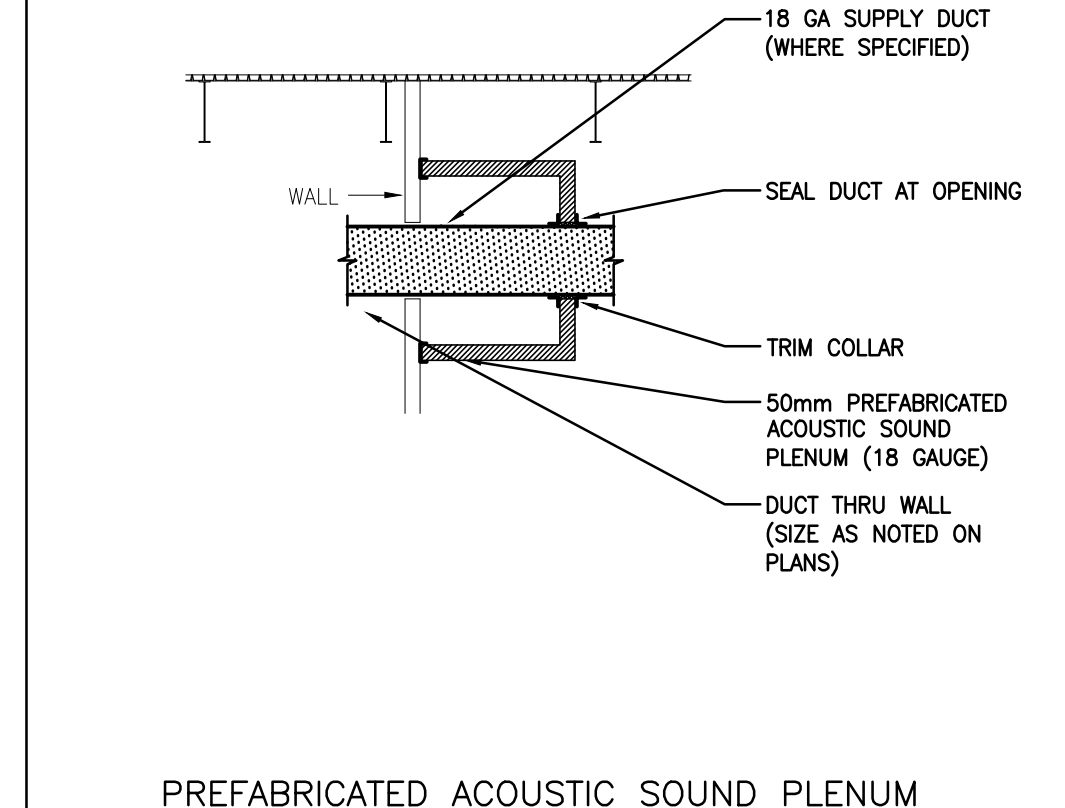
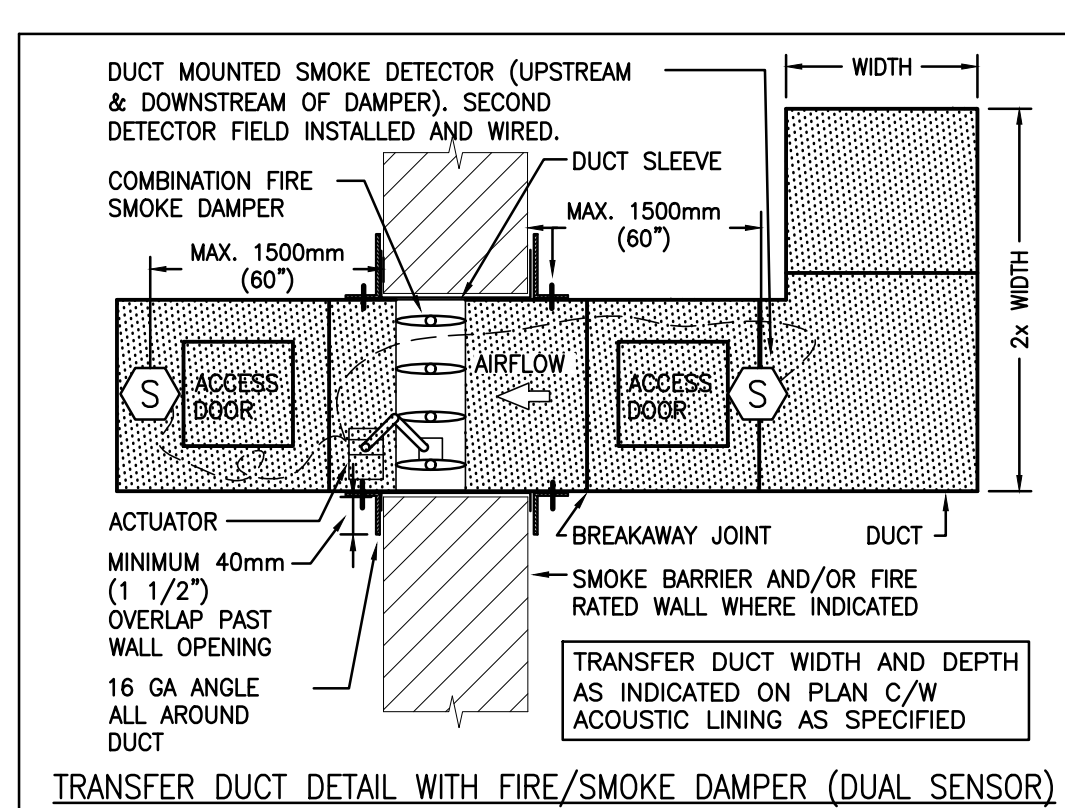
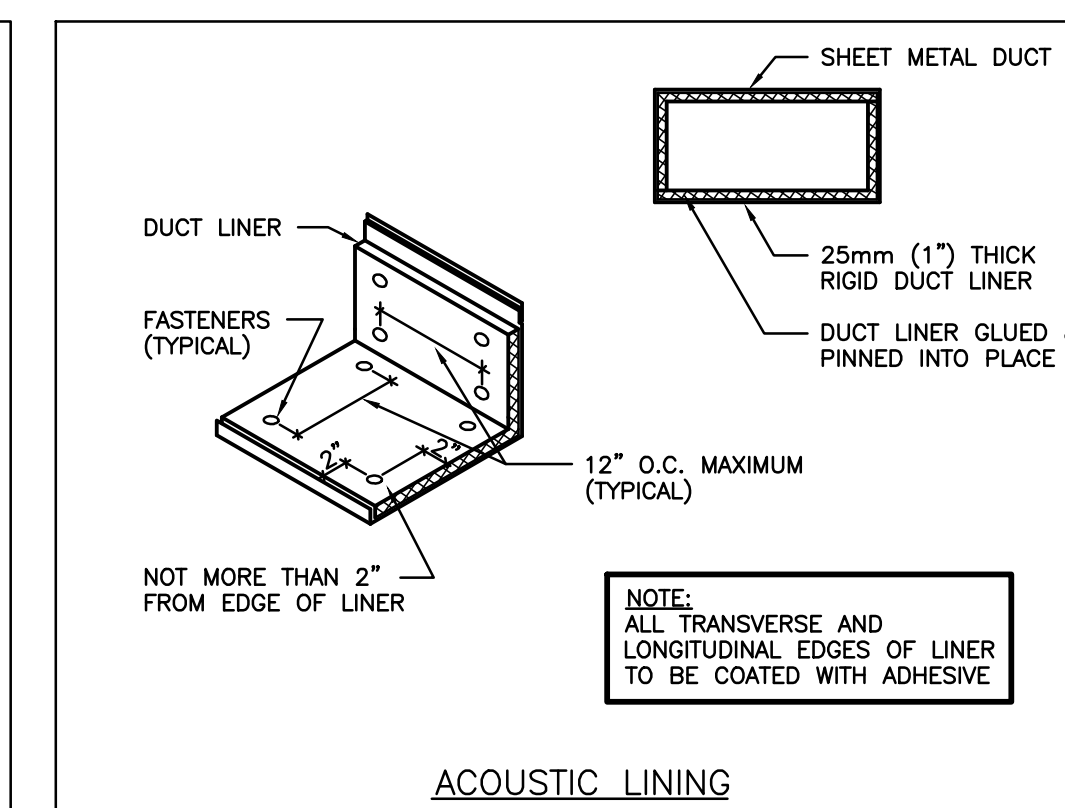
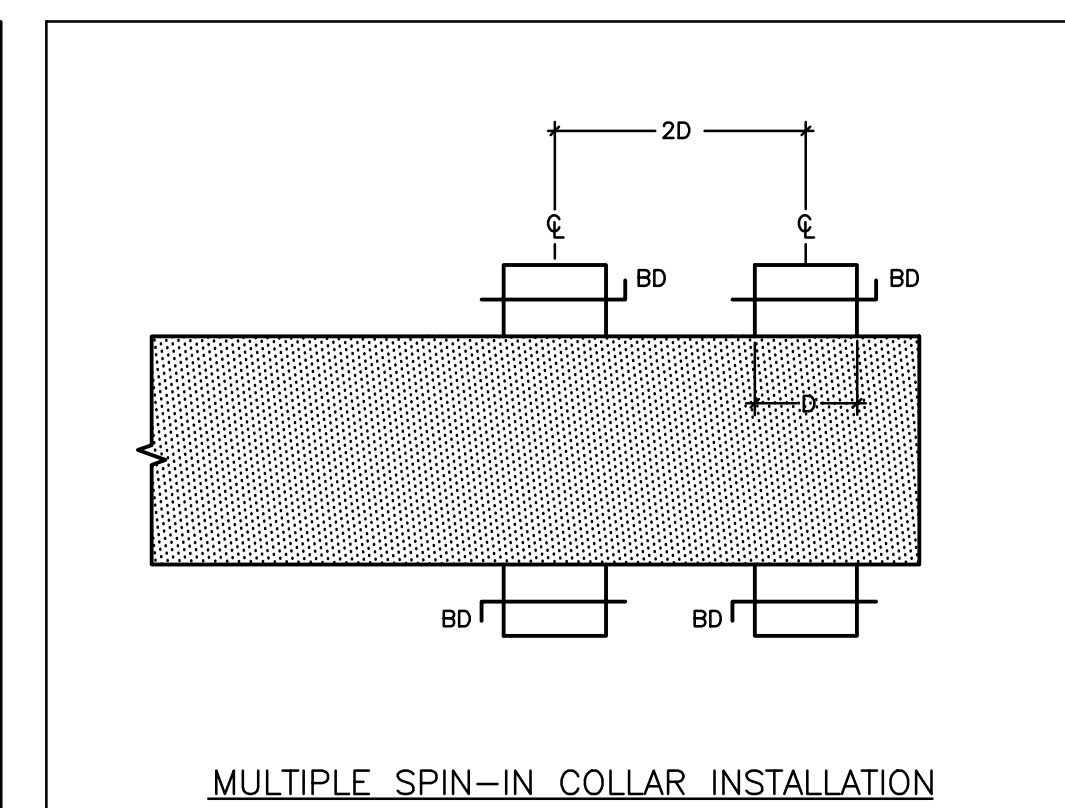
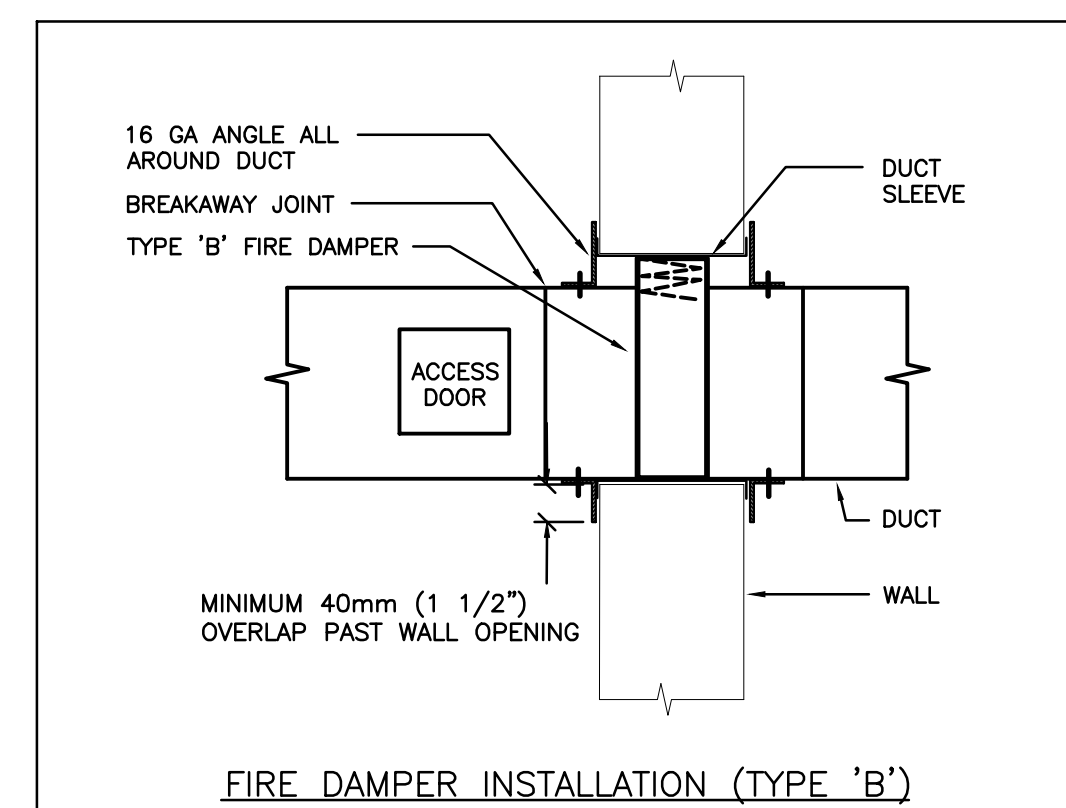
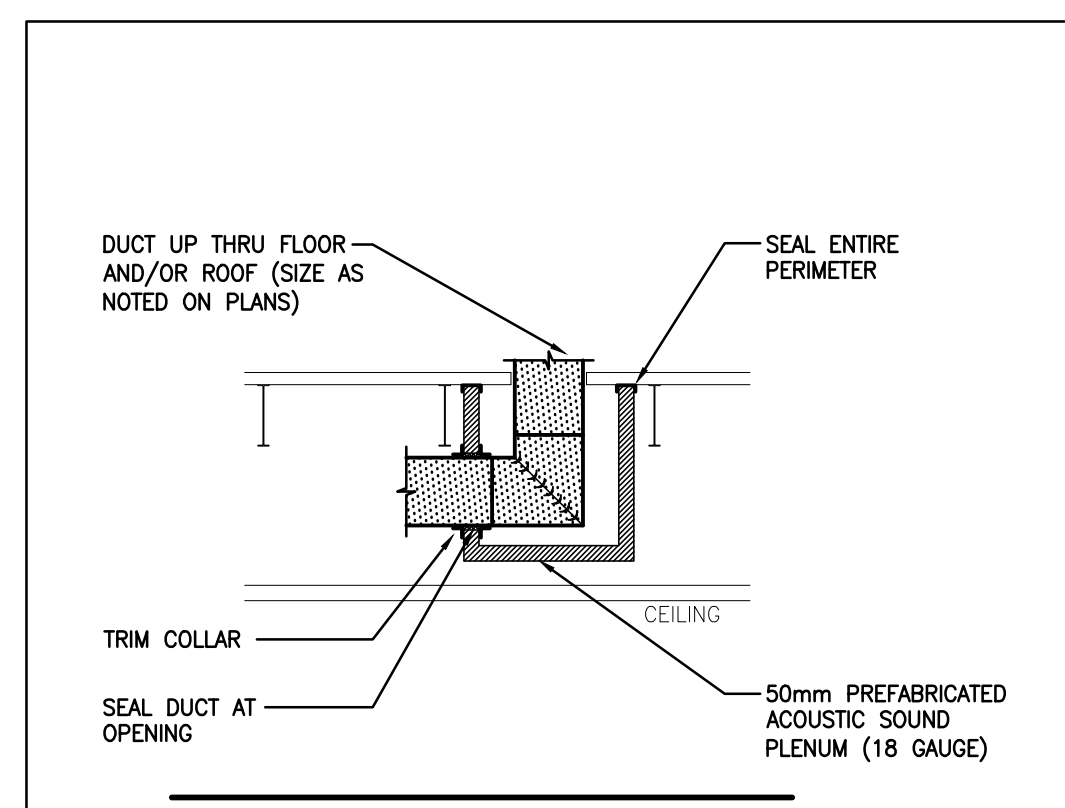
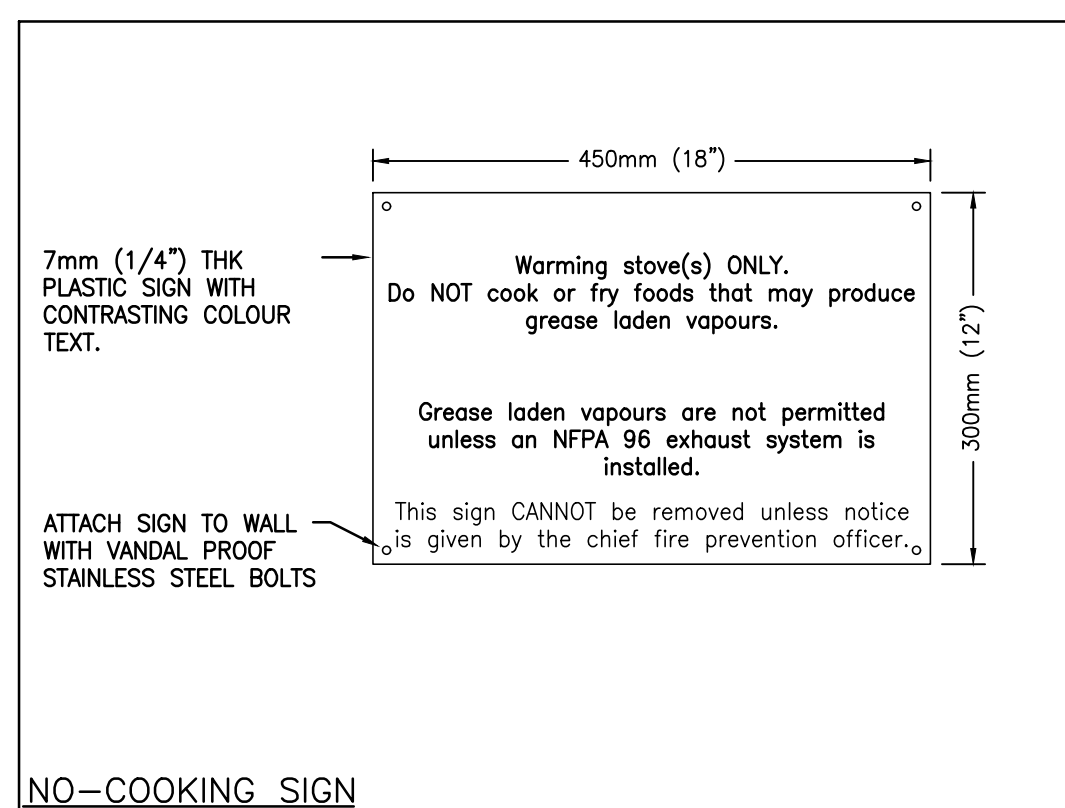
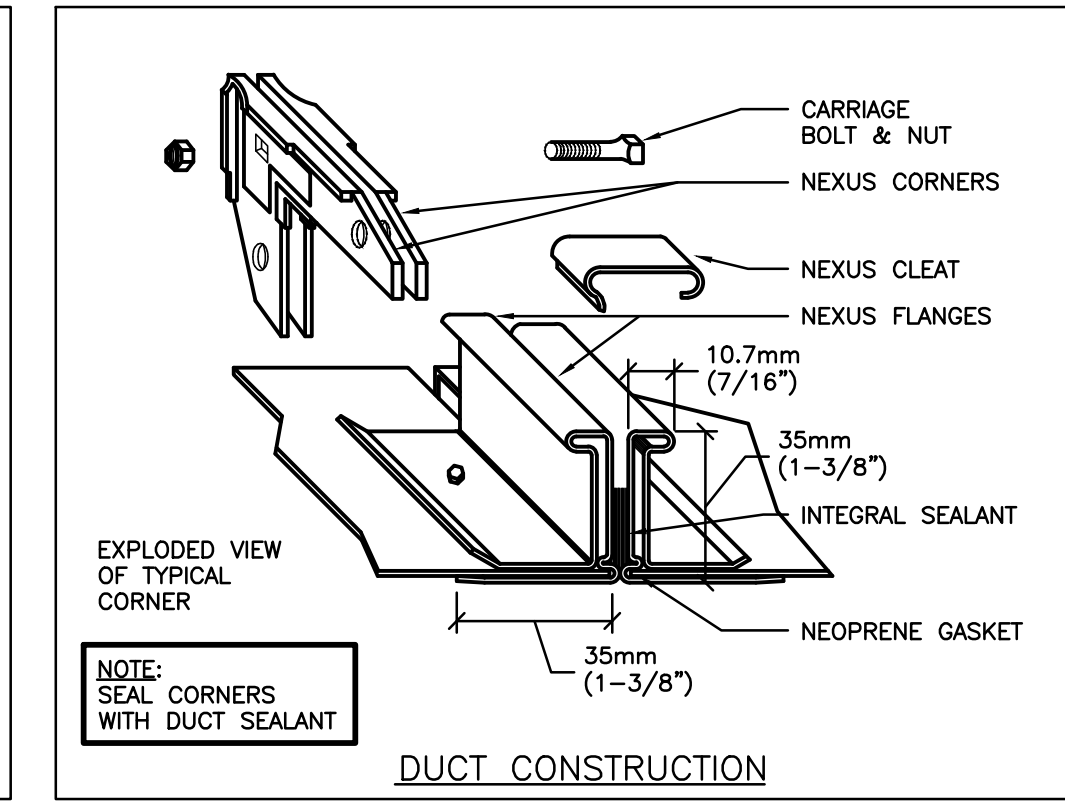
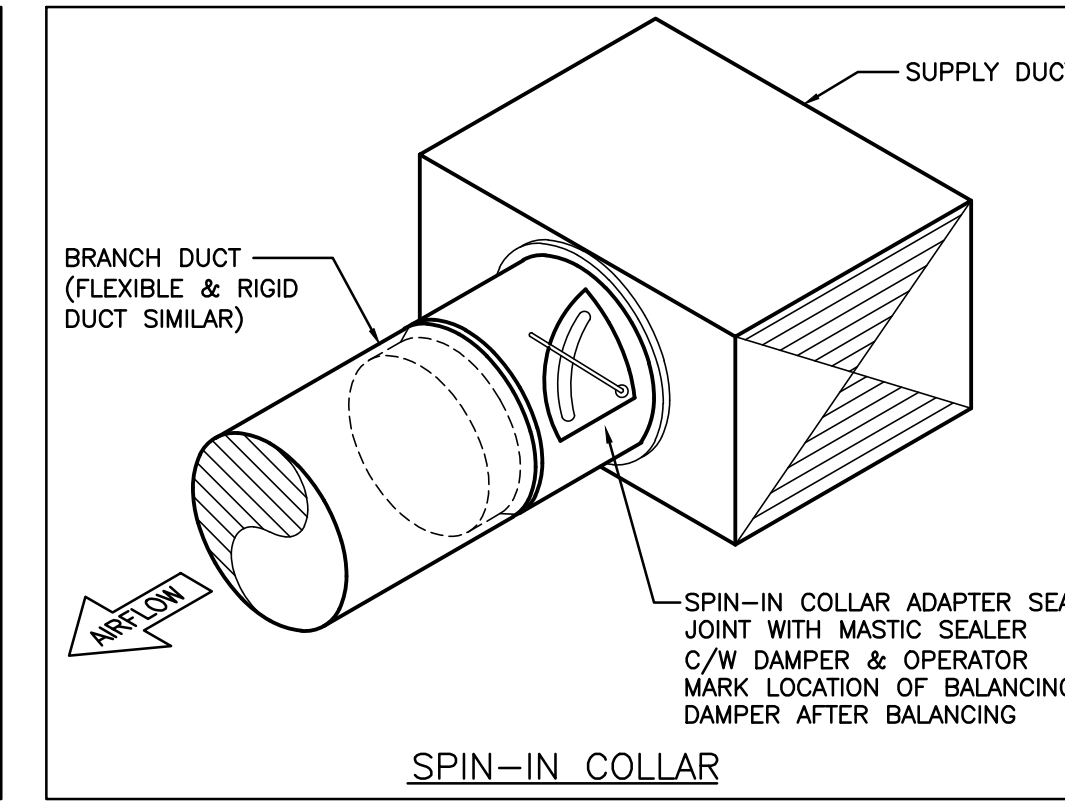
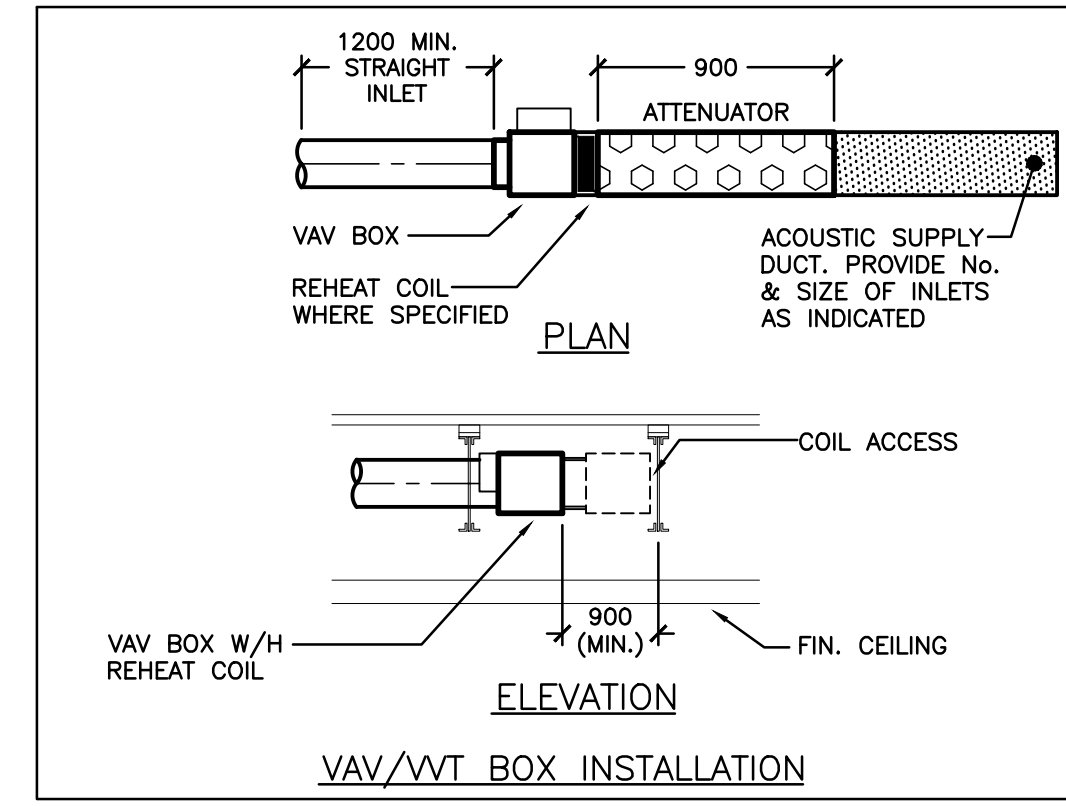
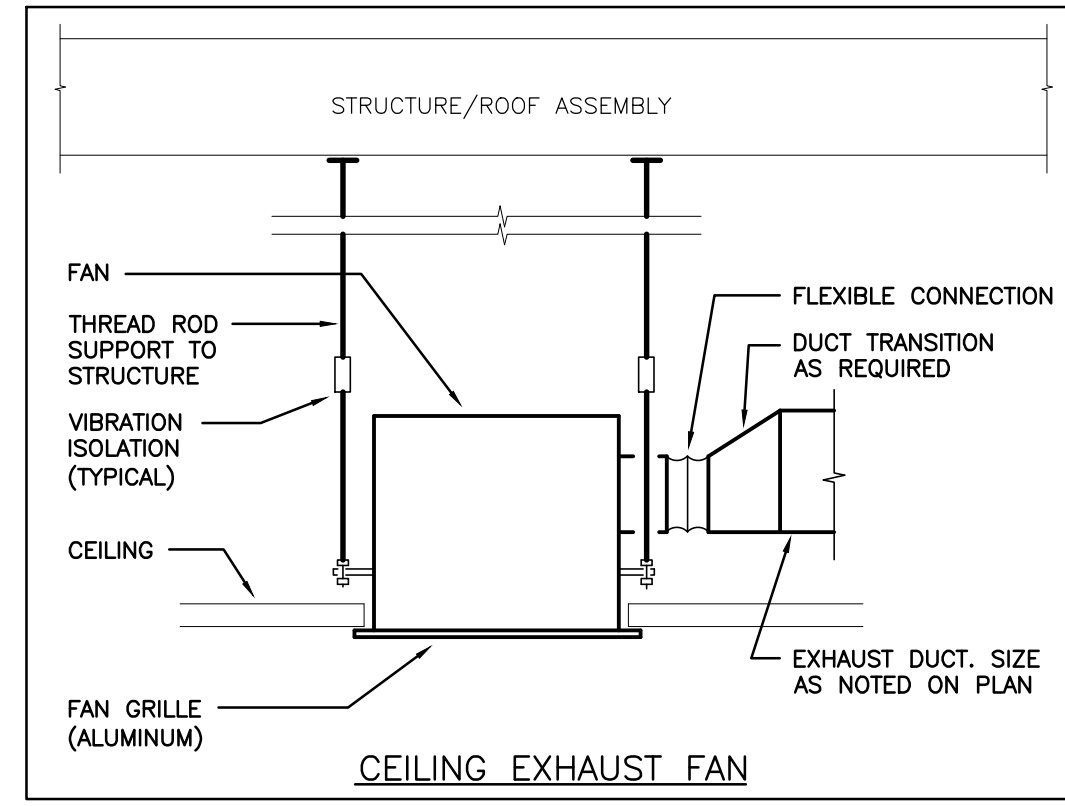
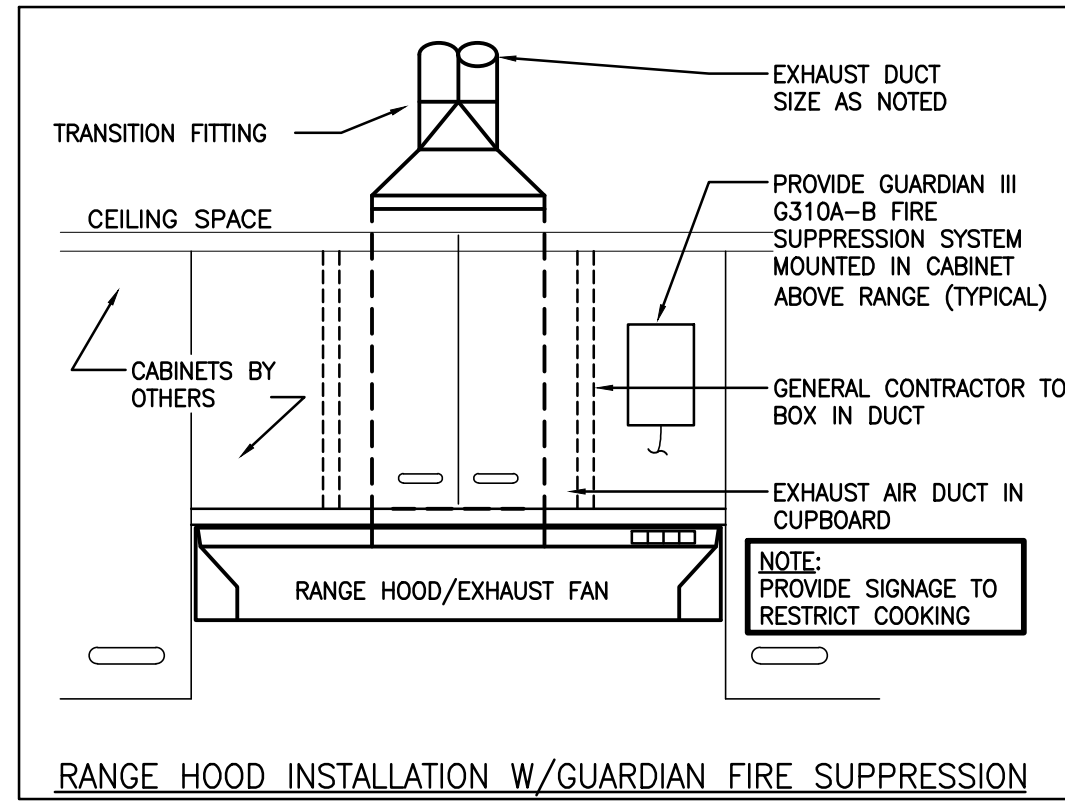
**PROFESSIONAL ENGINEER**  
Apr 24 2026  
M.B. WHITE  
100149074  
PROVINCE OF ONTARIO

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**St. Marks CES Renovations**  
240 Alum Hill Crescent  
Kitchener, ON N2N 1K8

**ROOF PLAN - NEW ADDITION**

scale: AS NOTED  
drawn by: AP  
reviewed by: CSP/SO  
job number: 07001  
plot date: 2026-04-23 1:53:33 PM  
drawing number: **M8.1**



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Project Number: 25984

2	26.04.24	RE-ISSUED FOR TENDER	MW
1	26.04.10	ISSUED FOR TENDER	MW
#	date:	revision:	by:

LICENSED PROFESSIONAL ENGINEER  
24 Apr 26  
M.B. WHITE  
100149074  
PROVINCE OF ONTARIO

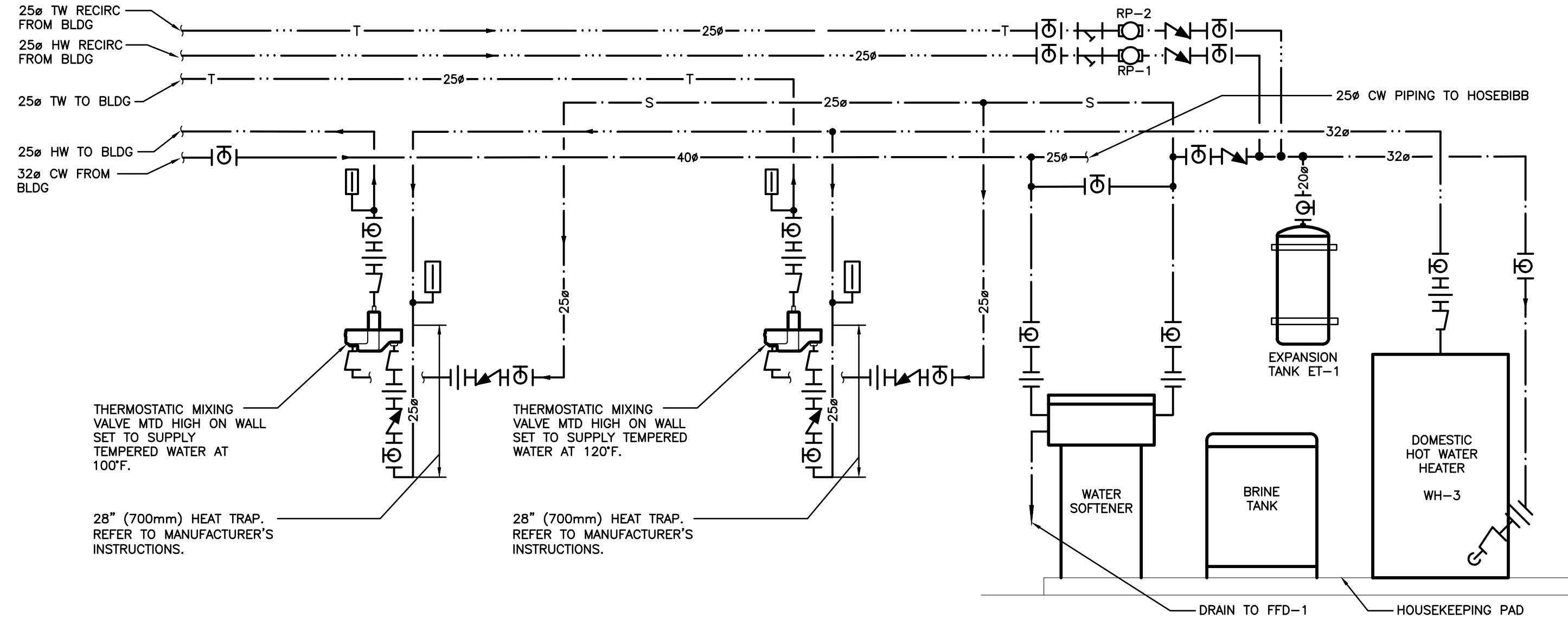
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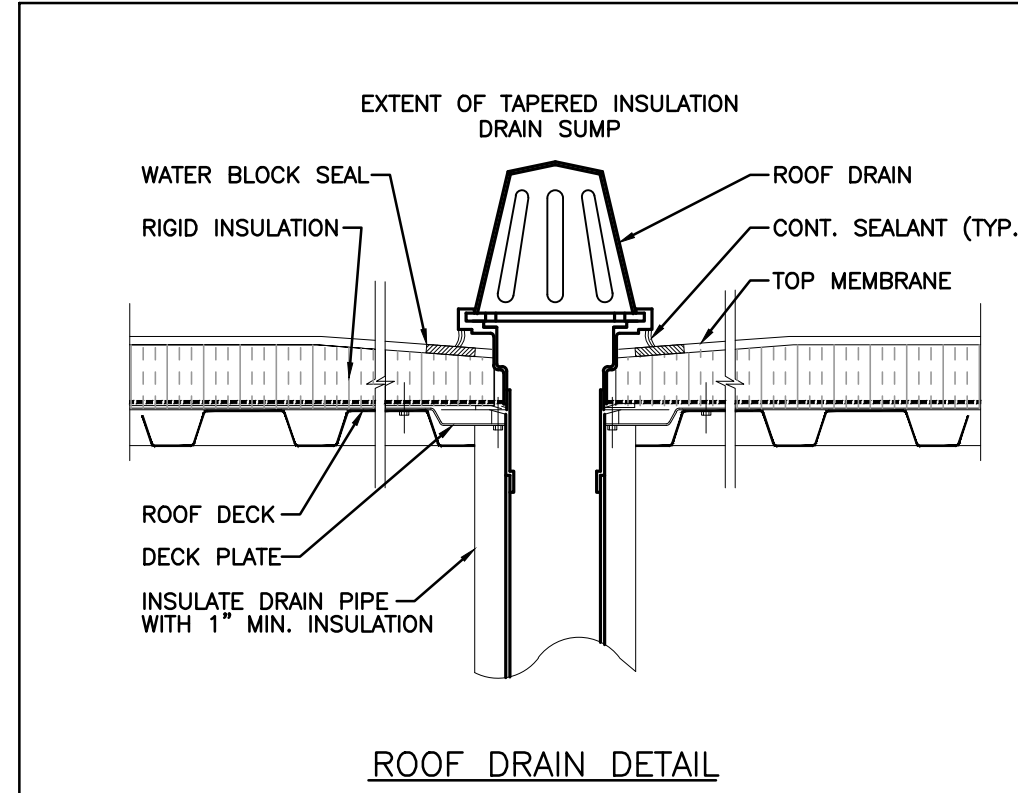
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reviewed by: SO  
job number: 24-035  
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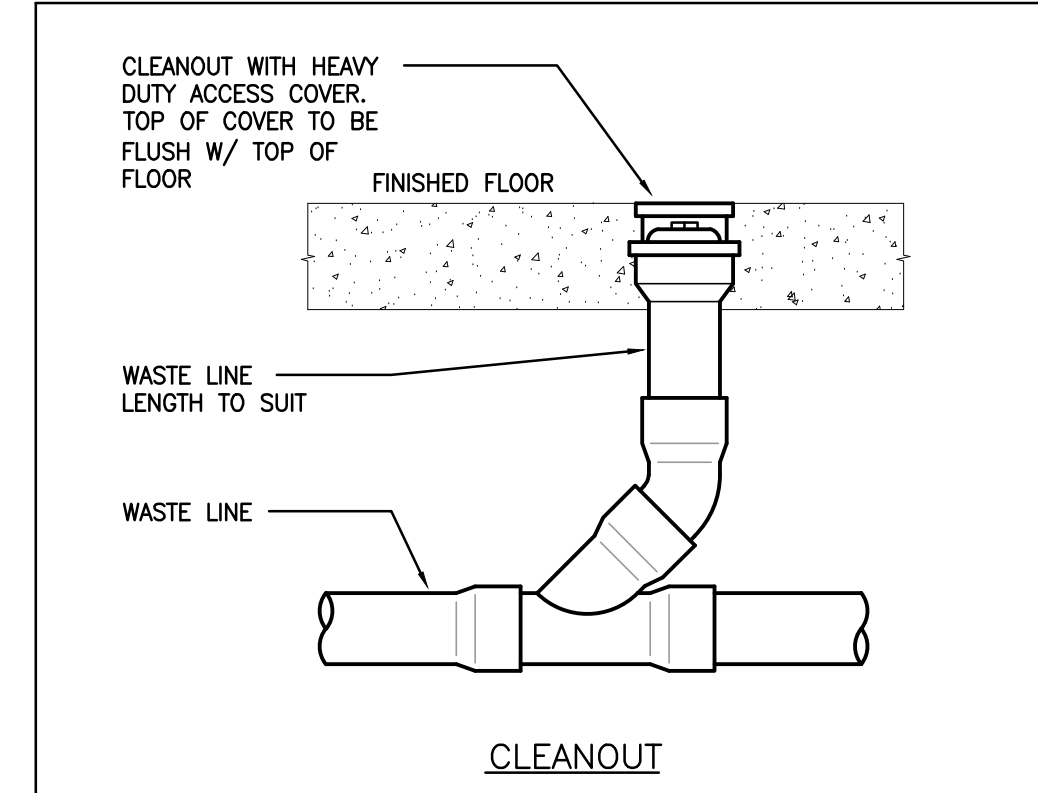
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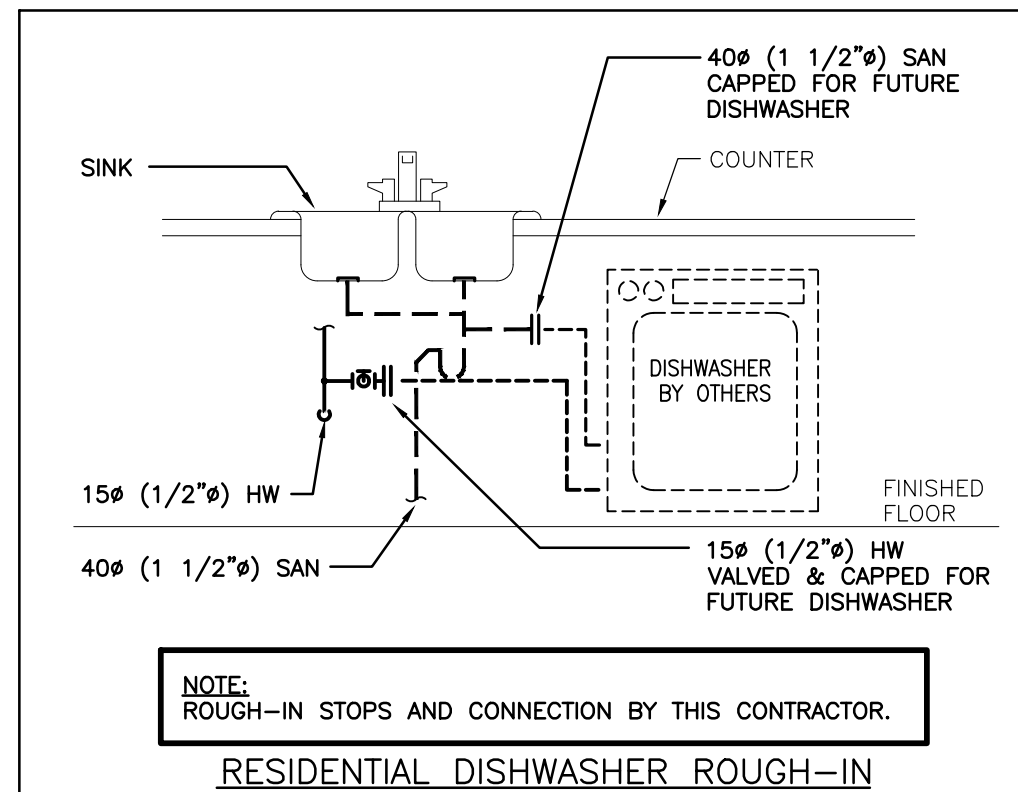
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ROOF DRAIN DETAIL

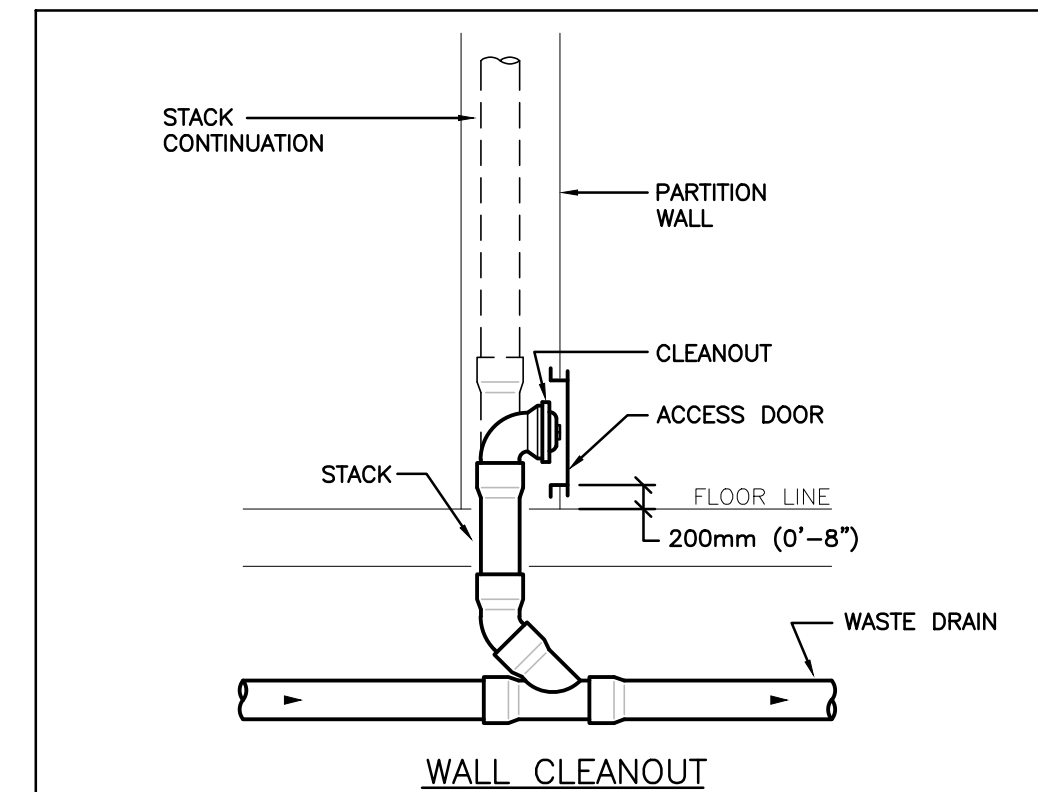


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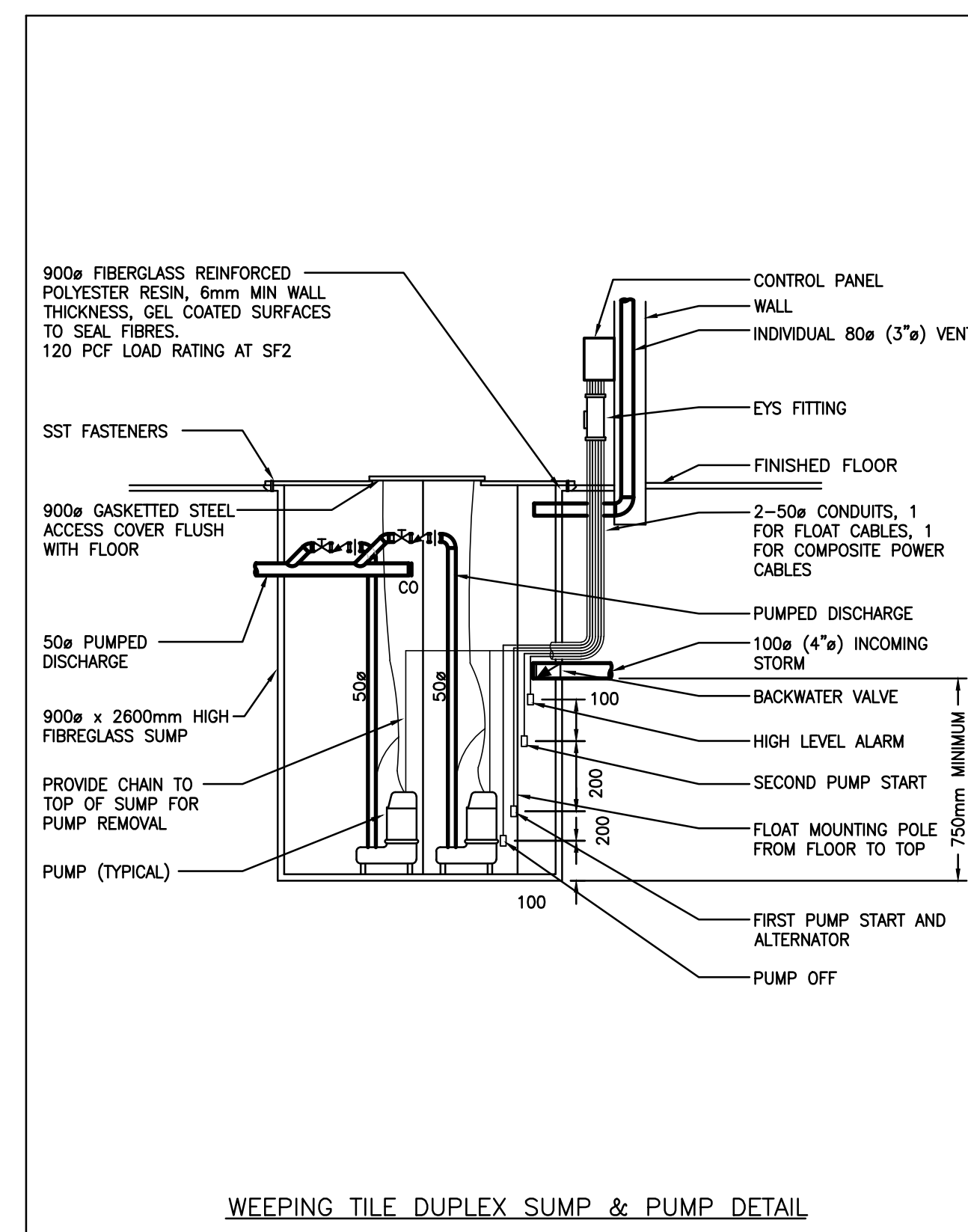


NOTE: ROUGH-IN STOPS AND CONNECTION BY THIS CONTRACTOR.

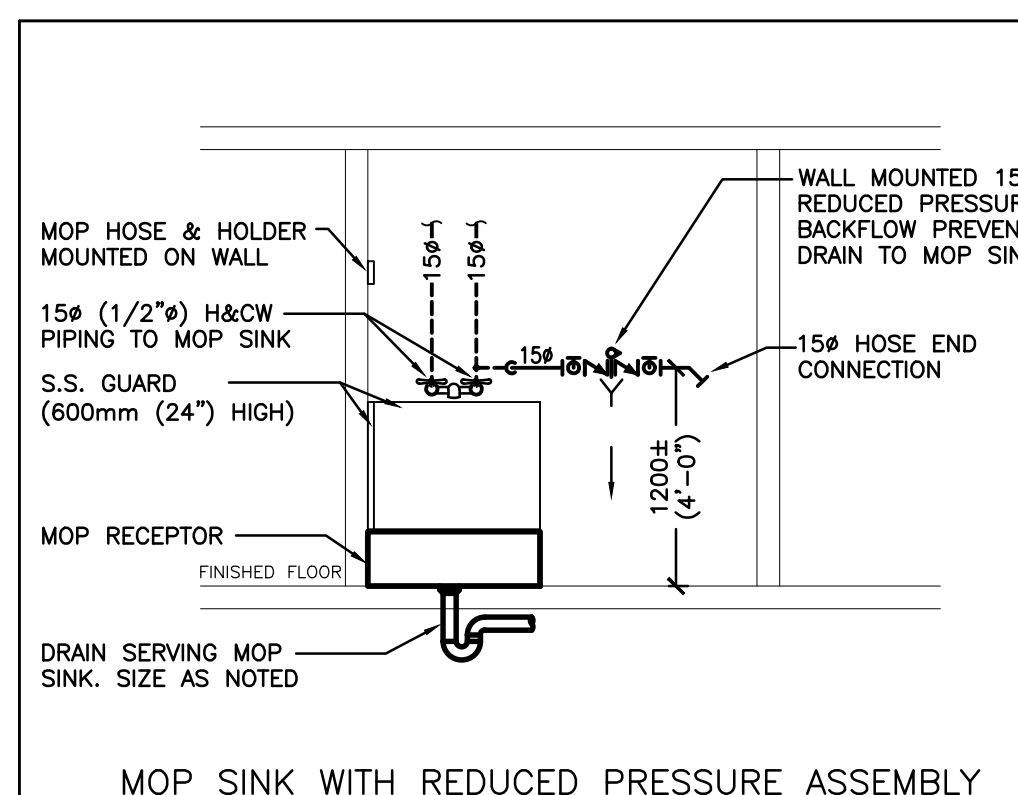
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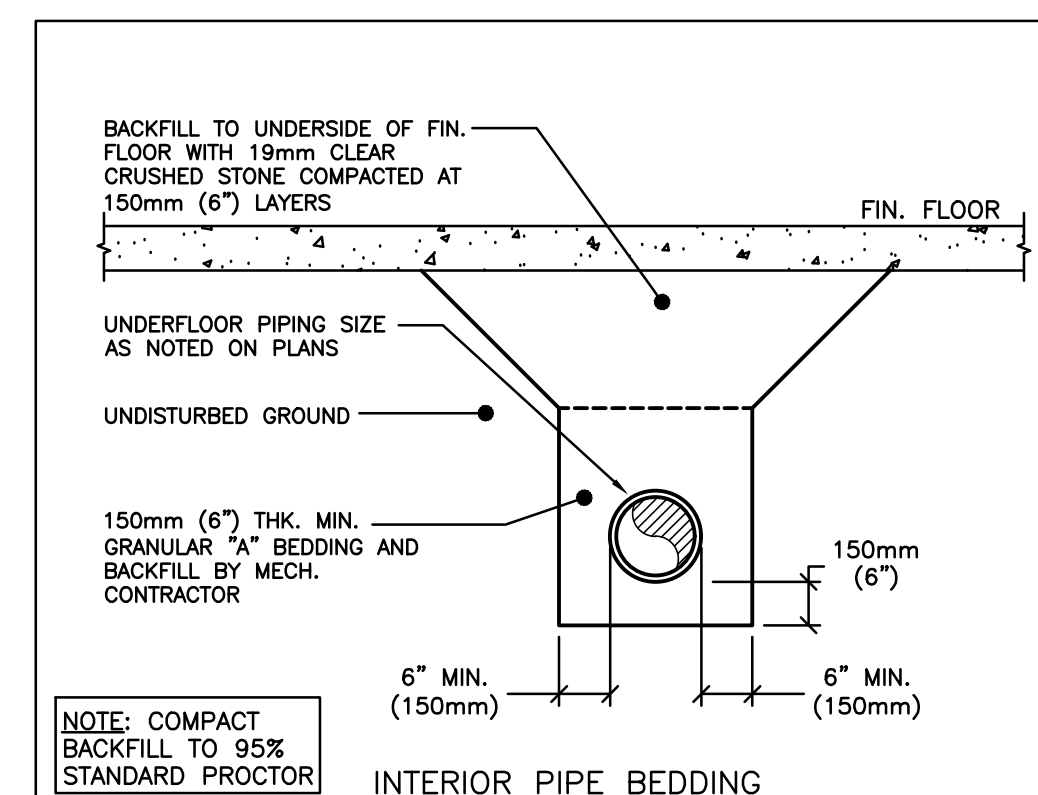
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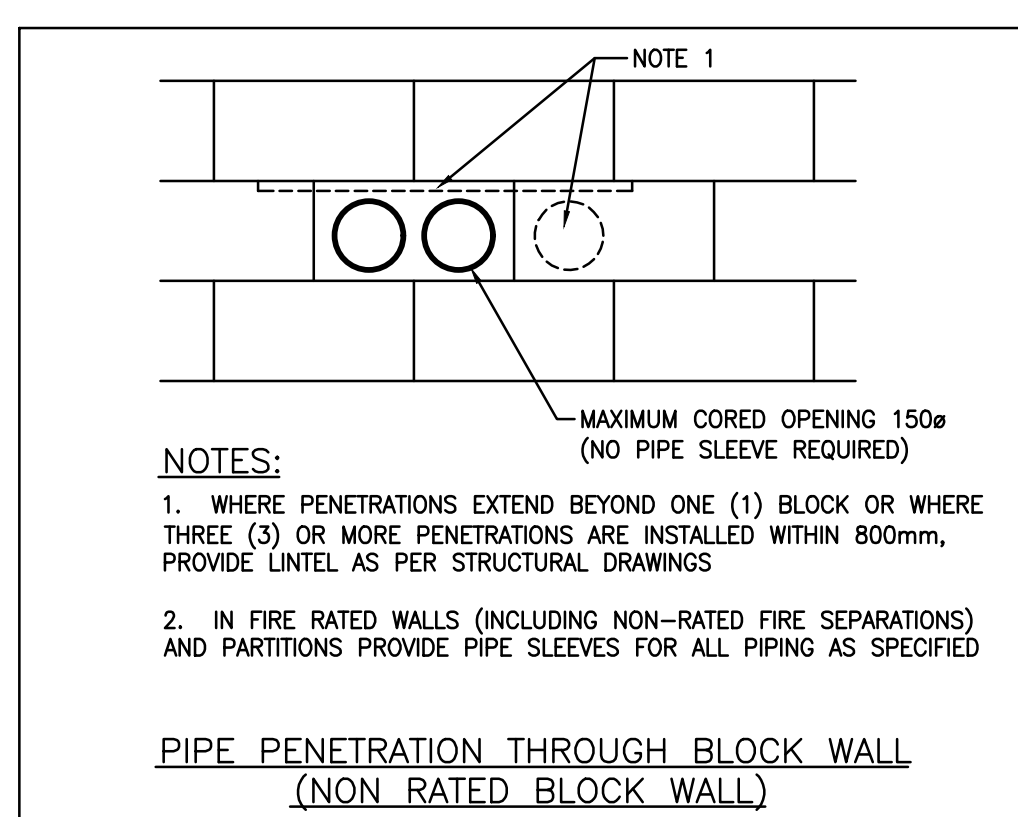
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MOP SINK WITH REDUCED PRESSURE ASSEMBLY

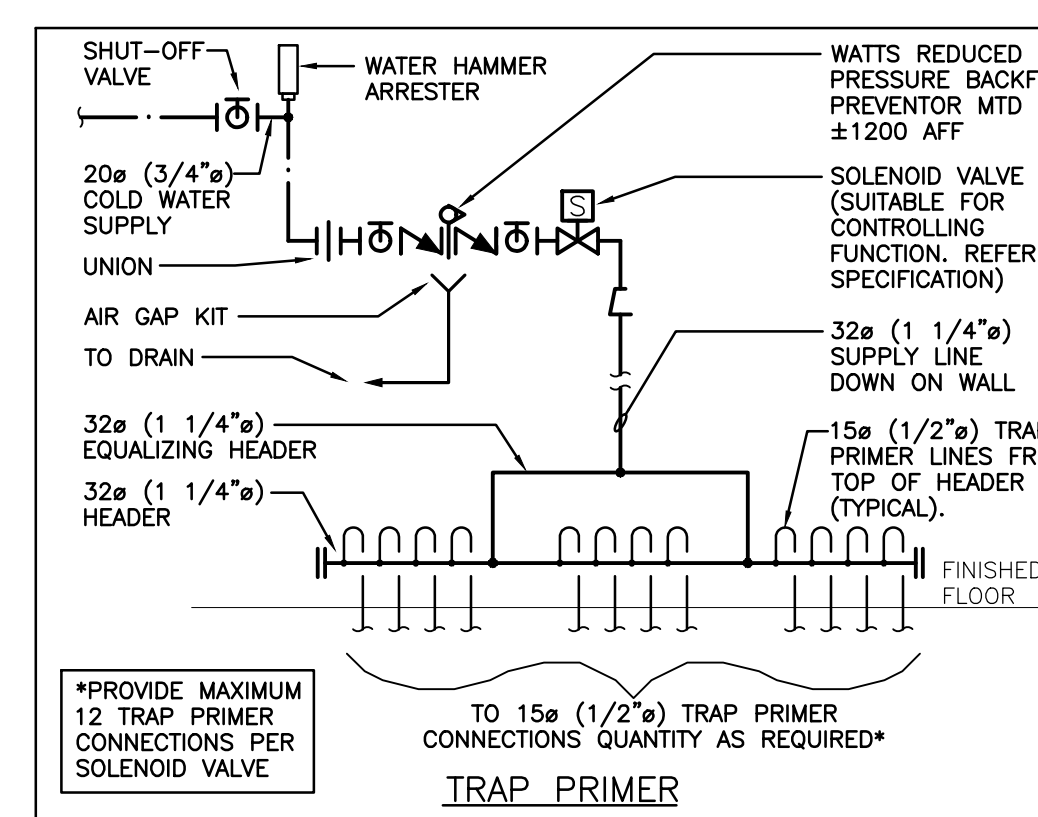


INTERIOR PIPE BEDDING

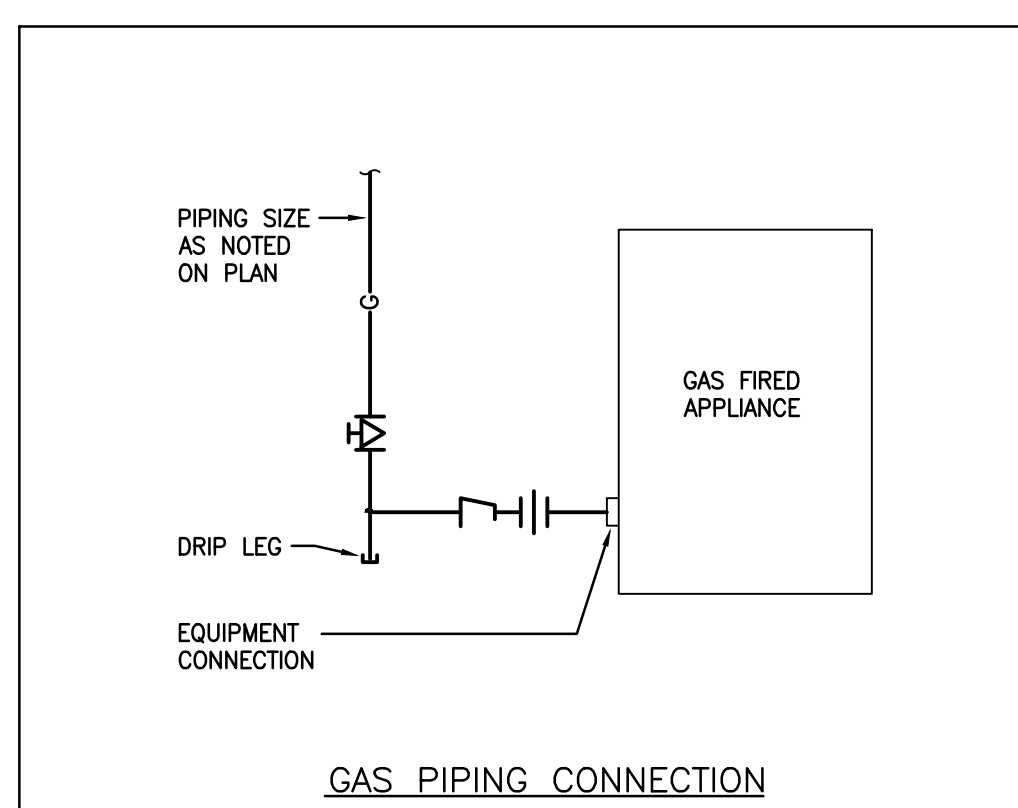


NOTES:  
1. WHERE PENETRATIONS EXTEND BEYOND ONE (1) BLOCK OR WHERE THREE (3) OR MORE PENETRATIONS ARE INSTALLED WITHIN 800mm, PROVIDE LINTEL AS PER STRUCTURAL DRAWINGS  
2. IN FIRE RATED WALLS (INCLUDING NON-RATED FIRE SEPARATIONS) AND PARTITIONS PROVIDE PIPE SLEEVES FOR ALL PIPING AS SPECIFIED

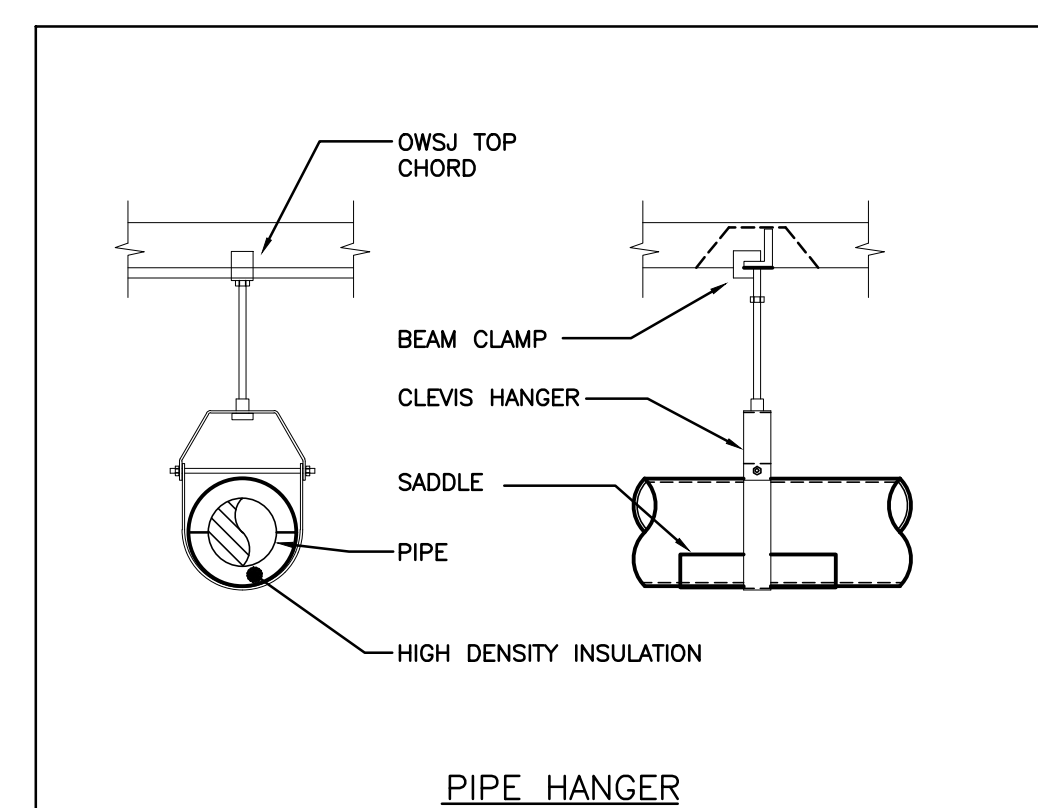
PIPE PENETRATION THROUGH BLOCK WALL (NON RATED BLOCK WALL)



TRAP PRIMER



GAS PIPING CONNECTION



PIPE HANGER

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mte65.com

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The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.  
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.  
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.  
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.  
Do not scale this drawing.  
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2 26.04.24	RE-ISSUED FOR TENDER	MW
1 26.04.10	ISSUED FOR TENDER	MW
# date:	revision:	by:

LICENSED PROFESSIONAL ENGINEER  
24 Apr 26  
M.B. WHITE  
100149074  
PROVINCE OF ONTARIO

All drawing and specifications are the property of the electrical engineer. The Contractor shall verify all dimensions and information on site and report any discrepancy to electrical engineer before proceeding, engineer

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MECHANICAL DETAILS & SCHEMATIC

scale: AS NOTED  
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reviewed by: SO  
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