New No.	Existing No.	Room	Nom. Tons	cfm	ESP in. wc	MCA	моср	Voltage	Cape Clg MBH EAT 80.6/66.2 EWT 90°F	acity Htg MBH EAT 68'F EWT 60'F	Ventilation Air cfm	Fluid Flow M GPM	 anufacturer	Model	Remarks
HP-1	EX-HP-1	CLASSROOM 1	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-2	EX-HP-2	CLASSROOM 2	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-3	EX-HP-3	CLASSROOM 3	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-4	EX-HP-4	CLASSROOM 4	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-5	EX-HP-5	CLASSROOM 5	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-6	EX-HP-6	STAGE	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-7	EX-HP-7	CLASSROOM 6	3.5	1350	0.35	17	25	208/3/60	35.5	39.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-8	EX-HP-8	CLASSROOM 7	3.5	1350	0.35	17	25	208/3/60	35.5	39.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-9	EX-HP-9	STAFF ROOM 8	3.0	1200	0.35	17	25	208/3/60	34.7	38.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-10	EX-HP-10	GUIDANCE	1.0	392	0.35	7.9	15	208/1/60	11.2	13.9	50	3.0	DAIKIN	WGCH012	CONSTANT TORQUE ECM MOTOR OPERATION C/W VIBRATION ISOLATIO
HP-11	EX-HP-11	OFFICE	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-12	EX-HP-12	SCIENCE ROOM 9	3.0	1200	0.35	17	25	208/3/60	34.7	38.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-13	EX-HP-13	ART ROOM 10	3.0	1200	0.35	17	25	208/3/60	34.7	38.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-14	EX-HP-14	CLASSROOM 11	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-15	EX-HP-15	CLASSROOM 12	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-16	EX-HP-16	CLASSROOM 13	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
*HP-17	EX-HP-17	CLASSROOM 14	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-18	EX-HP-18	CLASSROOM 15	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-19	EX-HP-19	COMPUTER LAB	2.0	900	0.35	19.7	30	208/1/60	23.2	25.8	500	6.0	DAIKIN	WGCH024	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-20	NOT USED														
*HP-21	EX-HP-21	LIBRARY (S)	3.0	1200	0.35	17	25	208/3/60	34.7	38.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-22	EX-HP-22	LIBRARY (N)	3.0	1200	0.35	17	25	208/3/60	34.7	38.4	500	8.0	DAIKIN	WGCH036	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION
HP-23	EX-HP-23	SEMINAR ROOM	0.75	301	0.35	5.9	15	208/1/60	8.8	11.0	50	2.0	DAIKIN	WGCH009	CONSTANT TORQUE ECM MOTOR OPERATION C/W VIBRATION ISOLATIO
HP-26	EX-HP-26	SPECIAL ED	1.5	476	0.35	9.3	15	208/1/60	13.6	16.2	100	3.0	DAIKIN	WGCH015	CONSTANT CFM ECM OPERATION C/W VIBRATION ISOLATION

<u>BOIL</u>	ER SCHE	DUL	- =					
Item	Туре	Input MBH	Output MBH	Flue Vent in	Electrical Voltage	Description	Manufacturer & Model	Remarks
B-1	HEATING WATER BOILER	650	611	6	120/1/60	STAINLESS STEEL CONDENSING		CONFIRM SIZE OF BOILER VENTING WITH APPROVED SHOP DRAWINGS & BOILER MANUFACTURER PRIOR TO ORDERING AND/OR INSTALLATION. C/W CONDENSATE NEUTRALIZING CARTRIDGE.
B-2	HEATING WATER BOILER	650	611	6	120/1/60	STAINLESS STEEL CONDENSING		CONFIRM SIZE OF BOILER VENTING WITH APPROVED SHOP DRAWINGS & BOILER MANUFACTURER PRIOR TO ORDERING AND/OR INSTALLATION. C/W CONDENSATE NEUTRALIZING CARTRIDGE.

<u>CIF</u>	RCULATION I	PUMP SCH	<u>HEDUL</u>	<u>E</u>							
No.	Service	Туре	Voltage	GPM	Head	Нр	RPM	Minimum Pump Inlet Size	Manufacturer	Model	Remarks
C-1	BOILER No. 1 CIRCULATION PUMP	INLINE	208/3/60	43	20	1/2	1800	50ø	B&G	E90 2AAC	
C-2	BOILER No. 2 CIRCULATION PUMP	INLINE	208/3/60	43	20	1/2	1800	50ø	B&G	E90 2AAC	
C-3	HEATING LOOP CIRCULATION PUMP	VERTICAL INLINE	208/3/60	94	45	3	1800	65ø	B&G	E80SC 2.5x2.5x7B	C/W MOTOR SUITABLE FOR REMOTE VFD
C-4	HEATING LOOP CIRCULATION PUMP	VERTICAL INLINE	208/3/60	94	45	3	1800	65ø	B&G	E80SC 2.5x2.5x7B	C/W MOTOR SUITABLE FOR REMOTE VFD
C-5	HEAT PUMP LOOP CIRCULATION PUMP	VERTICAL INLINE	208/3/60	142	45	5	1800	80ø	B&G	E80SC 3x3x11B	C/W MOTOR SUITABLE FOR REMOTE VFD
C-6	HEAT PUMP LOOP CIRCULATION PUMP	VERTICAL INLINE	208/3/60	142	45	5	1800	80ø	B&G	E80SC 3x3x11B	C/W MOTOR SUITABLE FOR REMOTE VFD
C-7	HEAT PUMP LOOP INJECTION PUMP	INLINE	120/1/60	15	15	Fhp	1800	32ø	B&G	E90 1.25AAB	
C-8	HEAT PUMP LOOP INJECTION PUMP	INLINE	120/1/60	15	15	Fhp	1800	32ø	B&G	E90 1.25AAB	

<u> </u>	PACK	KAGED HVAC L	JNIT	SC	HEDU	<u>LE</u>							
It	em	Туре	tons		ninal Capa Heat MBH		ESP in wc		Motor hp		ta MOCP	Acceptable Manufacturer	Notes
HV/		PACKAGED ROOFTOP HVAC UNIT	10	4000	240	124	1.2	20	3.0	575/3/60	+		HIGH HEAT, DOWN DISCHARGE & RETURN

1. ACCEPTABLE MANUFACTURERS: CARRIER, LENNOX, TRANE 2. UNITS HAVE 2 STAGE NATURAL GAS HEAT, 2 STAGE DX COOLING PLUS ECONOMIZER (1 STAGE ON SMALLER UNITS), BELT DRIVE FANS, VFD FAN MOTOR CONTROL. 3. PROVIDE STANDARD INSULATED 24" HIGH ROOF CURB, ADDITIONAL ISOLATION/VIBRATION RAIL/CURB, STAINLESS STEEL GAS HEAT EXCHANGER, CONDENSER COIL GUARD, STAINLESS STEEL FLUE GAS EXTENSION, POWER EXHAUST, ECONOMIZER, AND ALL HOODS & INLET SCREENS, DEHUMIDIFICATION PACKAGE WHERE INDICATED, AND 2 SETS MERV 13 DISPOSABLE FILTERS 4. CONTROLS: SYSTEM CONTROLS BY BAS CONTRACTOR, PROVIDE INTEGRAL CONTROLLER MATCHED TO BAS MANUFACTURER.

GENERAL HVAC UNIT NOTES:

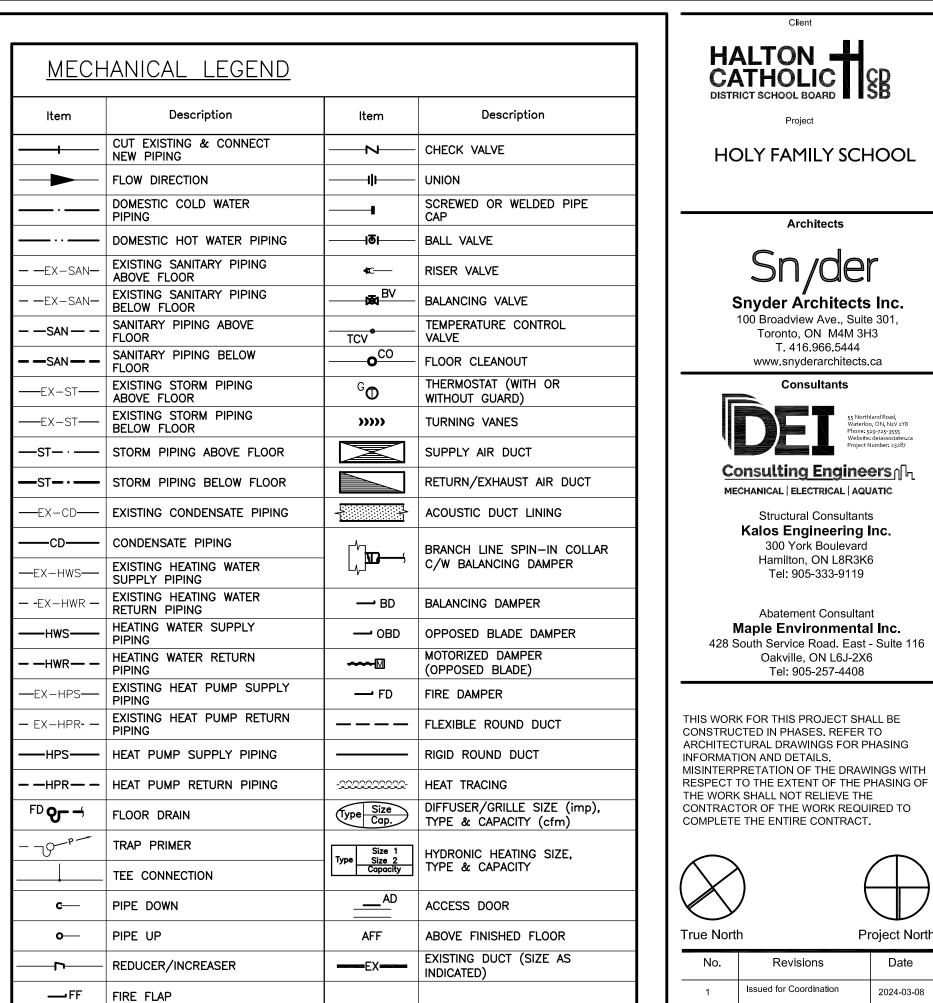
REFER TO FLOOR PLANS ON DRAWINGS M2.1-M2.10 FOR SCOPE OF WORK
PART PLAN 'C' PLUMBING & DRAINAGE
PART PLAN 'A' — REMAINDER OF BUILDING PART PLAN 'B' & 'D'
NOTE: ALL MECHANICAL DRAWING LAYOUTS ARE ROTATED 90° CLOCKWISE TO THAT OF THE ARCHITECTURAL SETS KEY PLAN — GROUND FLOOR SCALE: 1:250

<u>VIBI</u>	RATIO	<u>:1 NC</u>	SOLA	<u>TION</u>	SCHE	DULE
Item	Base Type	Isolator Series	Static Deflection	Isolator Category	Manufacturer	Remarks
C-3	_	NSN	0.15"	1	VIBRO ACOUSTICS	
C-4	-	NSN	0.15"	1	VIBRO ACOUSTICS	
C-5	-	NSN	0.15"	1	VIBRO ACOUSTICS	
C-6	-	NSN	0.15"	1	VIBRO ACOUSTICS	
COOLING TOWER	RAIL	vo	1.0	3	SEE REMARKS	ISOLATING RAILS BY COOLING TOWER MANUFACTURER

Item Type Capacity Medium Storage Recovery Litres I/h Manufacturer & Model Remarks	
WH-1 DOMESTIC WATER HEATER 120.0 MBH N. Gas 227 523 A.O. SMITH CYCLONE BTH-120 HIGH EFFICIENCY, 120/1/60, fhp	

FAN	SCHEDULI								
Item	Туре	Exhau Capacity cfm	st Air Size hp		RPM	Voltage	Manufacturer	Model	Remarks
EF-101	SIDEWALL EXHAUST	700	1/12	0.15	1400	120/1/60	PENN BARRY	P10RA	C/W FACTORY MOUNTED SPEED CONTROLLER (MOUNTED ON PLENUM), BACKDRAFT DAMPER & MOTOR GUARD. DVR BY BAS CONTRACTOR
EF-102	ROOF MOUNTED EXHAUST	1600	3/4	0.75	1300	120/1/60	PENN BARRY	DX16Q2	C/W 600mm (24") HIGH ROOF CURB, SPEED CONTROLLER & BACKDRAFT DAMPER. DVR BY BAS CONTRACTOR
EF-103	CEILING MOUNTED EXHAUST	400	Fhp	0.25	1050	120/1/60	PENN BARRY	Z10S	C/W VIBRATION ISOLATION HANGERS AND FACTORY MOUNTED SPEED CONTROLLER. REVERSE ACTING THERMOSTAT BY BAS CONTRACTOR
SF-101	SIDEWALL SUPPLY	700	1/12	0.15	1400	120/1/60	PENN BARRY	P10RA	C/W FACTORY MOUNTED SPEED CONTROLLER (MOUNTED ON PLENUM), BACKDRAFT DAMPER & MOTOR GUARD. DVR BY BAS CONTRACTOR

<u>A</u>	<u>ar handling</u>	UNIT S	<u>SCHEDULE</u>																												*ESP IS EXTERNAL TO THE CABINET
Ite	em Type	Capacity cfm	Supply Air Fan Data Size hp Drive	ESF	Capacity S	Return A Size hp	Air Fan Data Drive	ESP in. wc	Voltage	МСА	MOCP Medi	um Coil Type	Sens. Cap.	Total Cap. MBH	Cooling Rows Fins/in	Entering db/wb	Leaving F	ace Vel.	P.D. Air in.	Medium	Heati Capacity MBH	ing EAT db *F	LAT db	Туре	Heating Capacity (MBH) @ -6* db	Heat Recovery Cooling Capacity (MBH) © 88° db/75° wb	PD. Air in.	Manufacturer	Model	Weight Ibs	Remarks
MUA	A-1 OUTDOOR BUILT-UP MUA - HEAT RECOV		7.5 DIRECT DRIVE E	CM 1.5	4200	4.0 DIRE	CCT DRIVE ECM	1.5	575/3/60	41.6	60 R41	OA DX	131.2	188.7	4/15	80/68	56/56	264.6	0.27	GAS	600	-6	82.5 EN	IERGY RECOVERY HEEL	308.9	116.6	0.64	DAIKIN	DPS016A	6425±	C/W 600MM HIGH ROOF CURB & INTEGRAL VARIABLE FREQUENCY DRIVES (VFD). BOTTOM SUPPLY AND SIDE RETURN. PROVIDE THE REQUIRED FACTORY INSTALLED INTERNAL UNIT REINFORCING FOR EXTERNAL AMP SCREENING
MUA	A-2 OUTDOOR BUILT-UP MUA - HEAT RECOV		7.5 DIRECT DRIVE E	CM 1.5	4200	4.0 DIRE	CT DRIVE ECM	1.5	575/3/60	41.6	60 R41	OA DX	131.2	188.7	4/15	80/68	56/56	264.6	0.27	GAS	600	-6	82.5 EN	IERGY RECOVERY HEEL	308.9	116.6	0.64	DAIKIN	DPS016A	6425±	C/W 600MM HIGH ROOF CURB & INTEGRAL VARIABLE FREQUENCY DRIVES (VFD). BOTTOM SUPPLY AND RETURN. PROVIDE THE REQUIRED FACTORY INSTALLED INTERNAL UNIT REINFORCING FOR EXTERNAL AMP SCREENING



GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE WRITTEN INSTRUCTIONS. REFER TO SPECIFICATION.
- THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:

- REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF
- POTABLE WATER TEST (SEE SPEC 22 11 16 PART 3) - BACKFLOW TEST CERTIFICATE(S) FOR ALL TESTABLE DEVICES - COPY OF MANDATORY TSSA/ČŚA-B149 GAS PRESSURE TEST TAG
- ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

Architects

Sn/der

Snyder Architects Inc. 100 Broadview Ave., Suite 301,

Toronto, ON M4M 3H3

T. 416.966.5444

www.snyderarchitects.ca

Consultants

Consulting Engineers ∩ \

Structural Consultants

Kalos Engineering Inc. 300 York Boulevard

Hamilton, ON L8R3K6

Tel: 905-333-9119

Abatement Consultant

Maple Environmental Inc.

Oakville, ON L6J-2X6

Tel: 905-257-4408

Issued for Coordination

Issued for Coordination

Issued for Bids & Building

Project North

Date

2024-03-08

2024-03-26

MECHANICAL | ELECTRICAL | AQUATIC

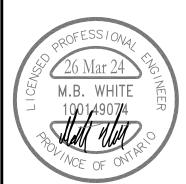
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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.



KEY PLAN & **SCHEDULES MECHANICAL**

			0011	<u> </u>	. =						
<u>PLUI</u>	<u>mbing fixtuf</u>	<u>₹</u> E	<u>SCH</u>	<u>EDU</u>	<u>LE</u>						
Item	Туре			tion Size		Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessories Accessory Description
WC-1	WATER CLOSET FLUSH VALVE		25ø			AMERICAN STANDARD MADERA 2234 001	VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.	<u>'</u>	EXPOSED, POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 25 mm (1") SCREWDRIVER ANGLE STOP. OSCILLATING HANDLE.	SEAT: BEMIS 2155SSCT	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		25¢	80ø		AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRIATIC 1319 ZURN 5665-BWL	BARRIER FREE, 16" TALL TO RIM, VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH.	DELTA 81T201-5 ZURN Z6000AV-WS1 SLOAN 111-1.6	BARRIER FREE, EXPOSED, POLISHED CHROME, EXTERNALLY ADJUSTABLE, DIAPHRAGM TYPE FLUSH VALVE WITH 25 mm (1") SCREWDRIVER ANGLE STOP, OSCILLATING HANDLE, FLUSH CONNECTION AND COUPLING FOR 40 mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, SEAT BUMPER AND VACUUM BREAKER. FLUSH CYCLE SET FOR 6 litres (1.5 gal) PER FLUSH	SEAT: BEMIS 7850TDG CENTOCO AM820STS	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		20ø	50ø	40ø	AMERICAN STANDARD WASHBROOK 6590.005 KOHLER BARDON K-4904-ET ZURN Z5750	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. C/W FLOOR MOUNTED CARRIER	DELTA 81T231 ZURN Z600SAV-EWS SLOAN 186 HEU-0.5	CHROME PLATED, NON-HOLD-OPEN, EXPOSED, DIAPHRAGM, EXTERNALLY ADJUSTABLE, WITH NPS 20 MM (3/4") ANGLE SCREWDRIVER STOP, OSCILLATING HANDLE, WALL AND SPUD FLANGE, VACUUM BREAKER. ULTRA LOW FLUSH CYCLE: SET TO 3.8 LITRES (1.0 GAL)/FLUSH.		
WF-1	B.F. WASH FOUNTAIN	15ø	15ø	40ø	320	BRADLEY QUAD FOUNT MF2944	BARRIER FREE QUAD-FOUNT SOILD SURFACE BOWL. ALL EXPOSED COMPONENTS TO BE STAINLESS STEEL. SUITABLE FOR FOUR (4) USERS. STANDARD PEDESTAL HEIGHT. C/W BACKSPLASH. COLOUR BY ARCHITECT.	BRADLEY	TRIM: ADAPTIVE INFRA-RED CONTROLLED, MOLDED SPRAYHEAD, STOP VALVES, TRANSFORMER, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. PROVIDE CONTROL TO LIMIT FLOW TO 2L/MINUTE. SUITABLE FOR 120/1/60. SOAP DISPENSER: LIQUID MOUNTED ON SPRAYHEAD COMPLETE WITH 2 SOAP VALVES AND VANDAL PROOF FILLER CAPS.		
WF-2	KINDERGARTEN WASH FOUNTAIN	15ø	15ø	40ø	320	BRADLEY TRI FOUNT MF2939	WALL MOUNTED TRI-FOUNT SOILD SURFACE BOWL. ALL EXPOSED COMPONENTS TO BE STAINLESS STEEL. SUITABLE FOR THREE (3) USERS. STANDARD PEDESTAL HEIGHT. C/W BACKSPLASH. COLOUR BY ARCHITECT. PROVIDE FLOOR MTD CONCEALED FIXTURE CARRIER & INSTALL FIXTURE AT 600 MM (24") ABOVE FINISHED FLOOR.	BRADLEY	TRIM: ADAPTIVE INFRA-RED CONTROLLED, MOLDED SPRAYHEAD, STOP VALVES, TRANSFORMER, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. PROVIDE CONTROL TO LIMIT FLOW TO 2L/MINUTE. SUITABLE FOR 120/1/60. SOAP DISPENSER: LIQUID MOUNTED ON SPRAYHEAD COMPLETE WITH 2 SOAP VALVES AND VANDAL PROOF FILLER CAPS.		
EW-1	EYE WASH	15ø	15ø	32ø	32ø	HAWS 7260BT-7270BT BRADLEY S19-220 GUARDIAN G1750P-TMV	250 MM (10") DIAMETER IMPACT RESISTANT BOWL CHROME PLATED BRASS SPRAY HEADS COMPLETE WITH COVERS, AND WALL MOUNTING BRACKET. TEPID WATER MIXING VALVE MEETING REQUIREMENTS OF ANSI STANDARD Z358.1—2004. MIXING VALVE IS TO PROVIDE WATER TEMPERATURE BETWEEN 15.5°C (60°) AND 38°C (100°F). 15 MM (1/2") CHROME PLATED BRASS STAY OPEN BALL VALVE COMPLETE WITH PUSH HANDLE.			HAWS TWBS.EWE BRADLEY S19-2000 GUARDIAN G3600	TEMPERING VALVE TO BLEND HOT AND COLD WATER TO DELIVER TEPID WATER. AS REQUIRED BY ANSI Z358.1
FFD-1	FUNNEL FLOOR DRAIN			NOTED	40	ZURN ZN415BF MIFAB CONTOUR WATTS	HEAVY-DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER WITH FUNNEL FLOOR DRAIN, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. C/W TRAP PRIMER.				
FD-1	FLOOR DRAIN			NOTED		ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				

<u>GRIL</u>	LE SCHEDULE					
Item	Туре	Manufacturer & Model	Manufacturer & Model	Finish	Finish	Remarks
D1	SQUARE CEILING SUPPLY	EH PRICE SCDA	KRUEGER 1400A	WHITE POWDER COAT	BRITISH WHITE	4-CONE, STEEL, SLIDING ADJUSTMENT NOT ACCEPTABLE
D2	ROUND SUPPLY	EH PRICE RCDA	KRUEGER RA2	WHITE POWDER COAT	BRITISH WHITE	4-CONE, STEEL, C/W SAFETY CHAINS AND DIFFUSER WIRE GUARD. SLIDING ADJUSTMENT NOT ACCEPTABLE
R1	CEILING RETURN	EH PRICE 80-CH	KRUEGER EG5	WHITE POWDER COAT	BRITISH WHITE	ALUMINUM, C/W CHANNEL FRAME, FIRE FLAP

HALTON - CATHOLIC DISTRICT SCHOOL BOARD

HOLY FAMILY SCHOOL

Architects

Sn/der
Snyder Architects Inc.
100 Broadview Ave., Suite 301,

www.snyderarchitects.ca Consultants

Toronto, ON M4M 3H3 T. 416.966.5444



MECHANICAL | ELECTRICAL | AQUATIC

Structural Consultants **Kalos Engineering Inc.**300 York Boulevard Hamilton, ON L8R3K6 Tel: 905-333-9119

Abatement Consultant **Maple Environmental Inc.**428 South Service Road. East - Suite 116 Oakville, ON L6J-2X6 Tel: 905-257-4408

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS.

MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.

No.	Revisions	Date
1	Issued for Coordination	2024-03-08
2	Issued for Coordination	2024-03-1
3	Issued for Bids & Building Permit	2024-03-26

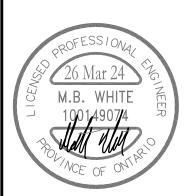
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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.

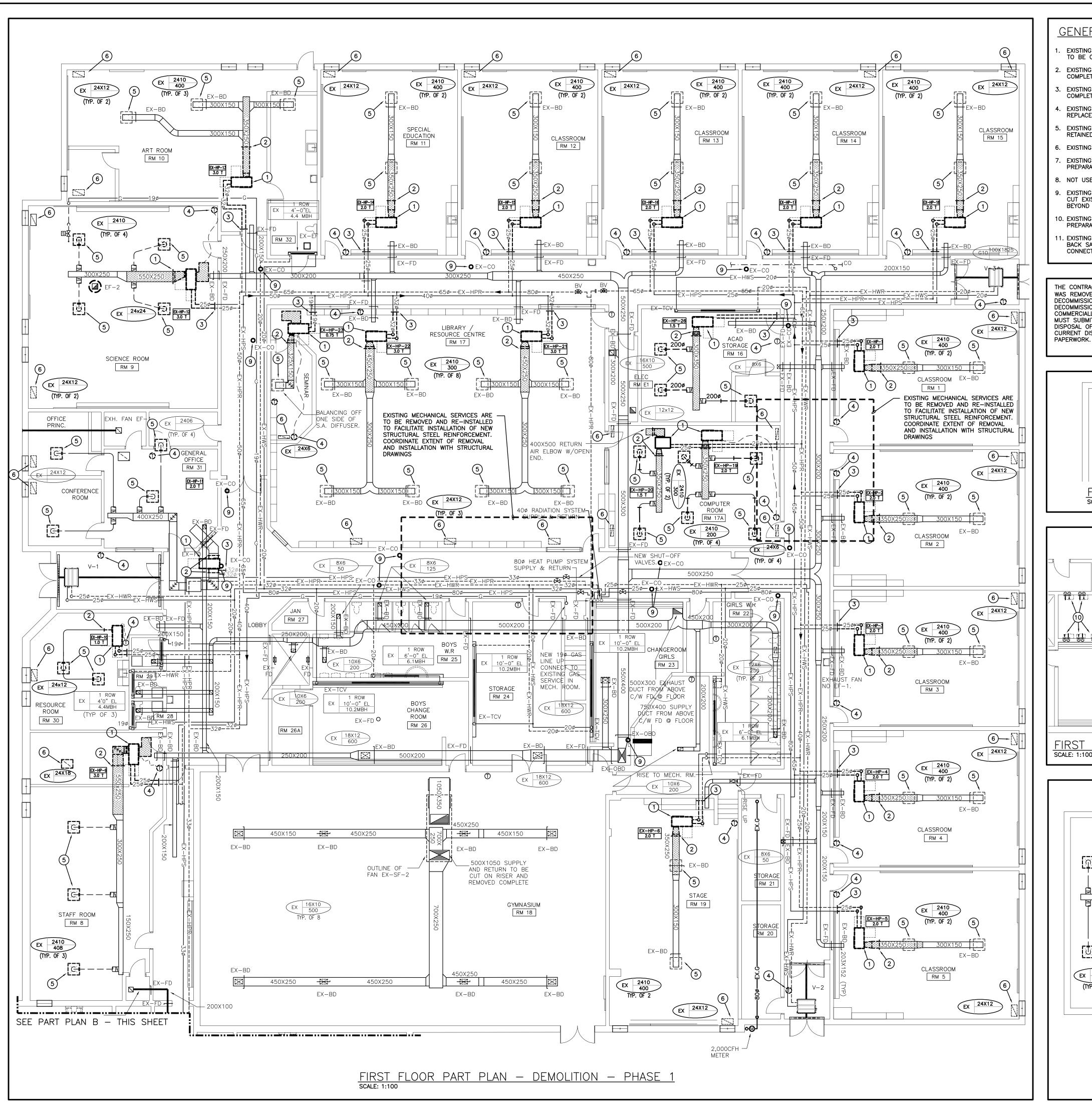
Do not scale this drawing.



Drawing Title:
SCHEDULES

MECHANICAL

Job No. 2325	Drawing No. M1.2
Drawn by: DF	Checked by: MW
Scale: AS NOTED	Date:



GENERAL DEMOLITION NOTES

- EXISTING HEAT PUMP AND ASSOCIATED CONDENSATE DRAIN PIPING TO BE CUT AND REMOVED COMPLETE.
- EXISTING DUCTWORK TO BE CUT BACK AND REMOVED BEYOND
- EXISTING HPS/HPR PIPING TO BE CUT AND REMOVED BEYOND
- COMPLETE. EXISTING VALVES TO BE REMOVED COMPLETE. EXISTING THERMOSTAT/SENSOR TO BE REMOVED COMPLETE.
- REPLACE WITH NEW DDC THERMOSTAT/SENSOR.
- EXISTING GRILLE/DIFFUSER TO BE REMOVED COMPLETE AND RETAINED FOR REUSE.
- 6. EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE.
- EXISTING HVAC UNIT ON ROOF TO BE REMOVED COMPLETE IN PREPARATION FOR REPLACEMENT
- EXISTING CLEANOUT/FLOOR DRAIN TO BE REMOVE COMPLETE. CUT EXISTING SANITARY PIPING BELOW FLOOR AND REMOVE BEYOND COMPLETE. PREPARE FOR NEW CONNECTION.
- 10. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE IN PREPARATION FOR INSTALLATION OF REPLACEMENT
- 1. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. CUT BACK SANITARY & WATER LINES IN PREPARATION FOR CONNECTION OF TWO NEW FIXTURES IN NEW CHASE

GENERAL DEMOLITION NOTES

PRIOR TO THE COMMENCEMENT OF WORK.

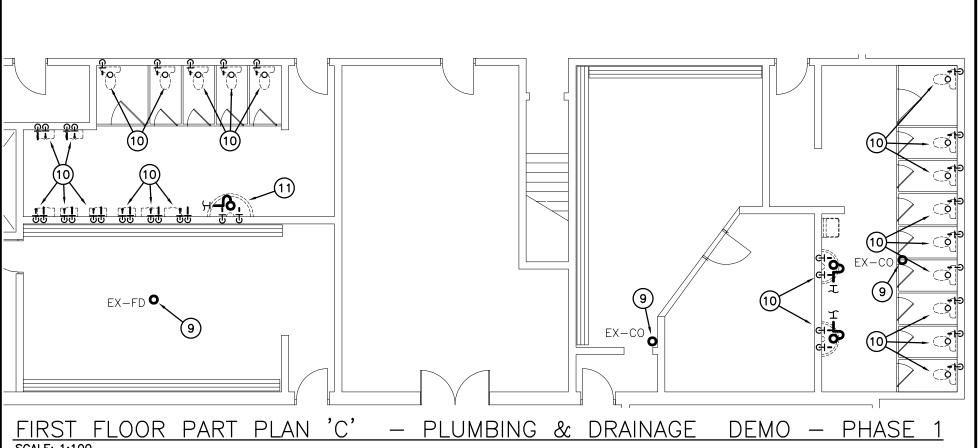
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING
- SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES. CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR

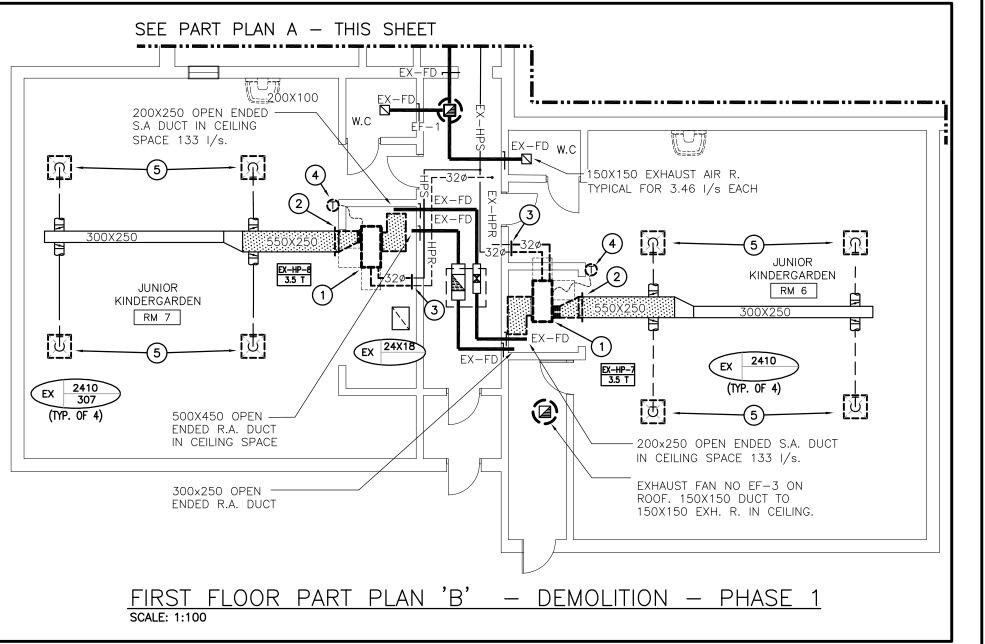
THE CONTRACTOR WILL TAKE ALL NECESSARY STEPS TO HAVE EQUIPMENT THA WAS REMOVED/REPLACED AS PART OF ANY WORK DISPOSED OF OR DECOMMISSIONED IN ACCORDANCE WITH APPROPRIATE DISPOSAL OR DECOMMISSIONING PROCESSES, APPLICABLE LAWS, AND IN ACCORDANCE WITH COMMERCIALLY REASONABLE ENVIRONMENTAL PRACTICES. THE CONTRACTOR MUST SUBMIT WRITTEN PROOF, EVIDENCE OR ACKNOWLEDGEMENT THAT THE DISPOSAL OF ALL MATERIALS WAS DONE SO IN ACCORDANCE WITH ALL CURRENT DISPOSAL REQUIREMENTS. CONTRACTOR TO SUBMIT ALL REQUIRED

ALL MECHANICAL DRAWING LAYOUTS ARE ROTATED 90° CLOCKWISE TO THAT OF THE ARCHITECTURAL SETS

FREEZE PIPING TO COMPLETE WORK

FIRST FLOOR PART PLAN 'D' - PLUMBING DEMOLITION - PHASE 1







HOLY FAMILY SCHOOL

Architects

Snyder Architects Inc. 100 Broadview Ave., Suite 301

Toronto, ON M4M 3H3 T. 416.966.5444 www.snyderarchitects.ca Consultants



Consulting Engineers MECHANICAL | ELECTRICAL | AQUATIC

Structural Consultants Kalos Engineering Inc. 300 York Boulevard Hamilton, ON L8R3K6

Abatement Consultant Maple Environmental Inc. 428 South Service Road. East - Suite 116 Oakville, ON L6J-2X6

Tel: 905-333-9119

Tel: 905-257-4408

CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS. MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.



Project North Date Issued for Coordination 2024-03-08 Issued for Coordination Issued for Bids & Building

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. Obta 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.

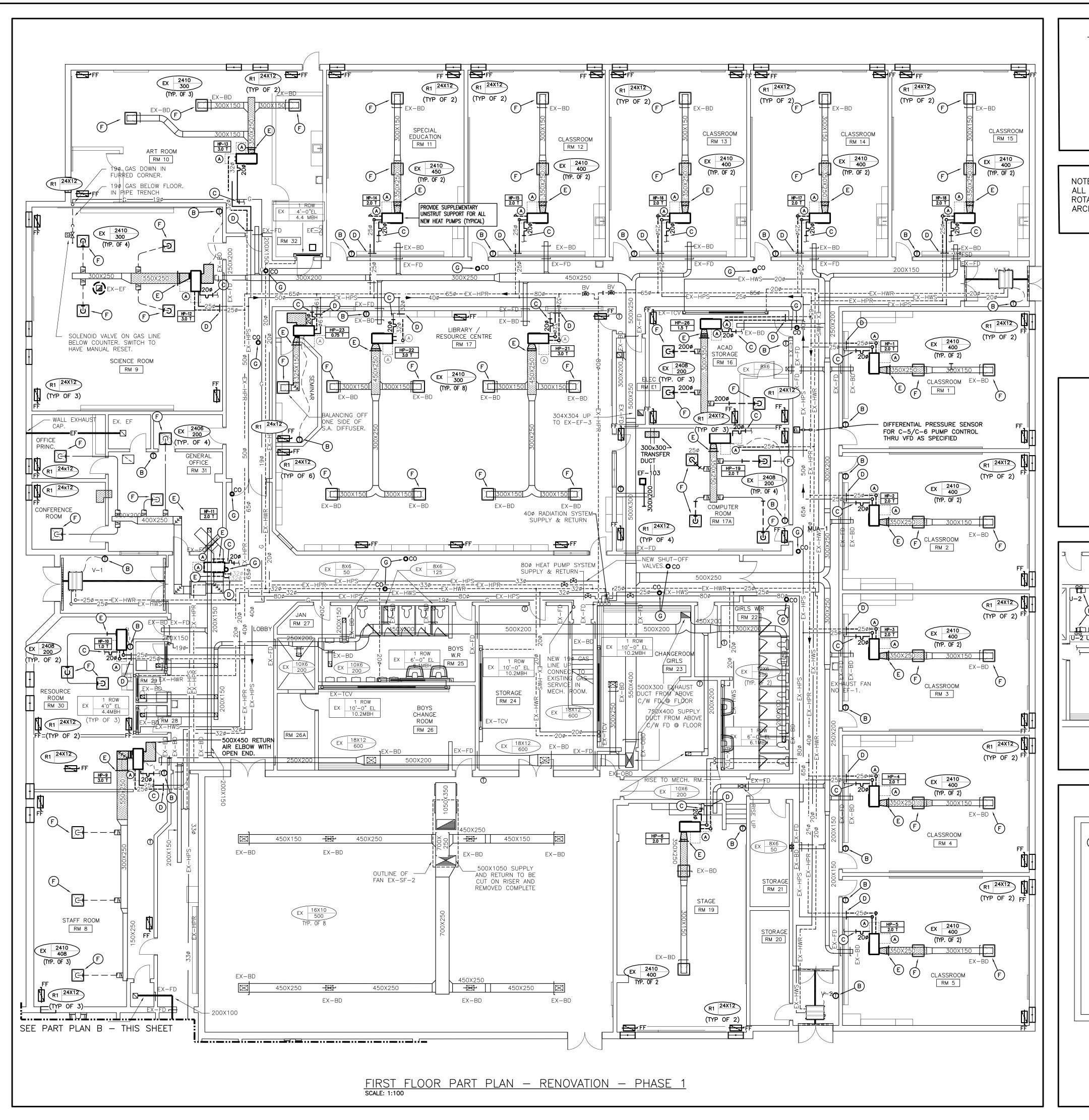
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale this drawing.



FIRST FLOOR PLAN PHASE 1

HVAC DEMOLITION Scale: AS NOTED Checked by: MW 2325



NOTES:

- RE-BALANCE ALL NEW AND EXISTING DIFFUSERS, GRILLES & DUCTWORK TO
- RE-BALANCE ALL OA DUCTS TO EACH HEAT PUMP TO CAPACITIES AS INDICATED AND SPECIFIED.

CAPACITIES AS INDICATED AND SPECIFIED.

 EXISTING GRILLES AND DIFFUSERS TO BE TEMPORARILY REMOVED TO ACCOMMODATE HEAT PUMP REMOVAL/INSTALLATION. REINSTALL

SPRINKLER HEADS IN THE SAME LOCATION.
REFER TO ARCHITECTURAL RCP

ALL MECHANICAL DRAWING LAYOUTS ARE ROTATED 90° CLOCKWISE TO THAT OF THE ARCHITECTURAL SETS

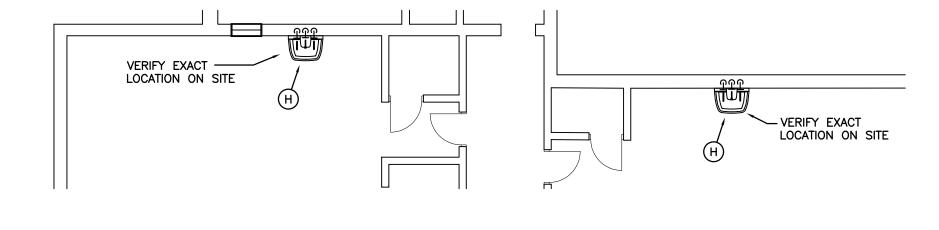
- - MAINTAIN REQUIRED SERVICE CLEARANCES FOR ALL HEAT PUMPS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONSULTANT RECOMMENDATIONS.

GENERAL RENOVATION NOTES

- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF
- CLEAN ALL NEW AND EXISTING DUCTWORK, COILS, DIFFUSERS AND GRILLES AS INDICATED AND SPECIFIED. RE-BALANCE DIFFUSERS/GRILLES TO CAPACITIES AS INDICATED.

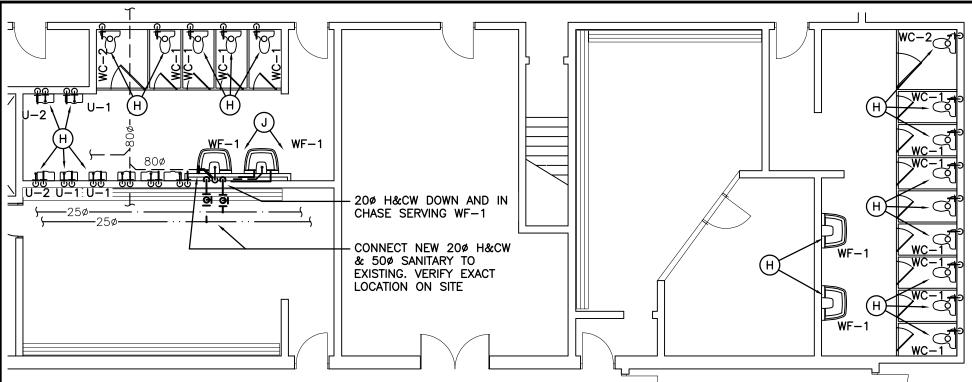
SPECIFIC RENOVATION NOTES

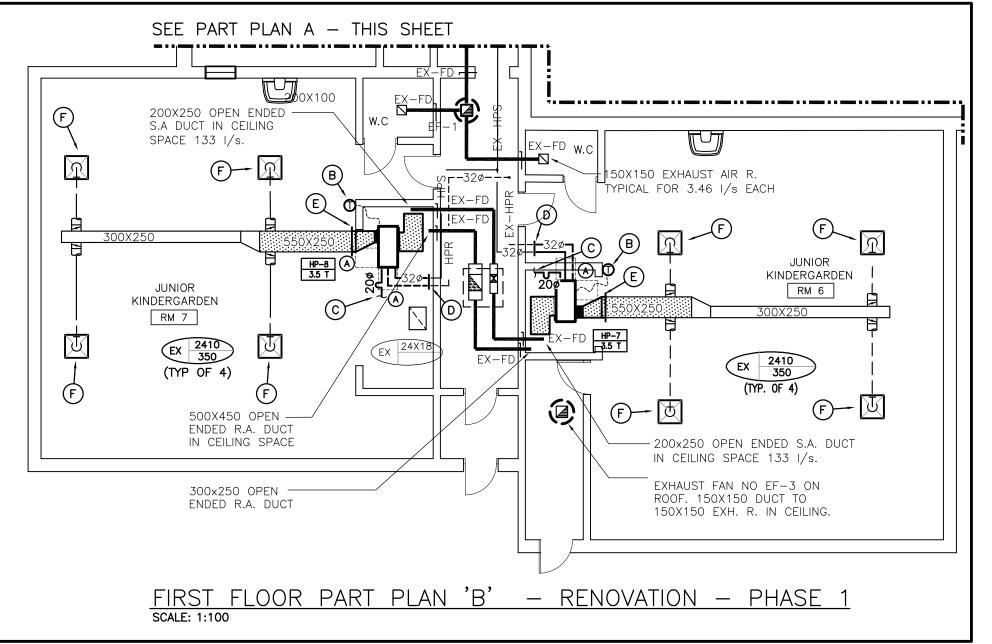
- MAINTAIN REQUIRED SERVICE CLEARANCES FOR ALL HEAT PUMPS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONSULTANT RECOMMENDATIONS.
- B. NEW DDC THERMOSTAT/SENSOR. PROVIDE NEW CONTROL WIRING. FISH EXISTING WALL AS REQUIRED. PROVIDE WIREMOLD WHERE REQUIRED.
- C. CONNECT NEW CONDENSATE PIPING TO EXISTING CONDENSATE PIPING, SIZE AS INDICATED ON PLAN.
- D. CONNECT NEW HPS AND/OR HPR PIPING TO EXISTING HPS&R PIPING. SIZE TO MATCH EXISTING.
- E. CONNECT NEW SA DUCT TO EXISTING CUT CONNECTION C/W TRANSITION AS REQUIRED (SIZE TO MATCH EXISTING).
- F. EXISTING DIFFUSER/GRILLE TO BE REMOVED, CLEANED AND REINSTALLED
- G. INSTALL NEW REPLACEMENT FLOOR CLEANOUT
- H. INSTALL NEW REPLACEMENT PLUMBING FIXTURE. MAKE CONNECTIONS TO EXISTING SANITARY AND WATER LINES
- INSTALL NEW PLUMBING FIXTURE. MAKE CONNECTIONS TO EXISTING SANITARY AND WATER LINES WITHIN NEW PLUMBING CHASE
 - CORRECT QUANTITIES AND/OR SIZES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR.



THE SAME.

FIRST FLOOR PART PLAN 'D' - PLUMBING RENOVATION - PHASE







HOLY FAMILY SCHOOL

Architects

Snyder Architects Inc.

100 Broadview Ave., Suite 301 Toronto, ON M4M 3H3 T. 416.966.5444



Consulting Engineers IECHANICAL | ELECTRICAL | AQUATIC

Structural Consultants Kalos Engineering Inc. 300 York Boulevard Hamilton, ON L8R3K6

Abatement Consultant Maple Environmental Inc. 428 South Service Road. East - Suite 116

Tel: 905-333-9119

Oakville, ON L6J-2X6 Tel: 905-257-4408

CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS. MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.



Project North Date Issued for Coordination 2024-03-08 Issued for Coordination 2024-03-11 Issued for Bids & Building 2024-03-26

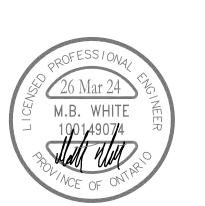
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obta approval for relocation of service from Consultant before commencement of the work.

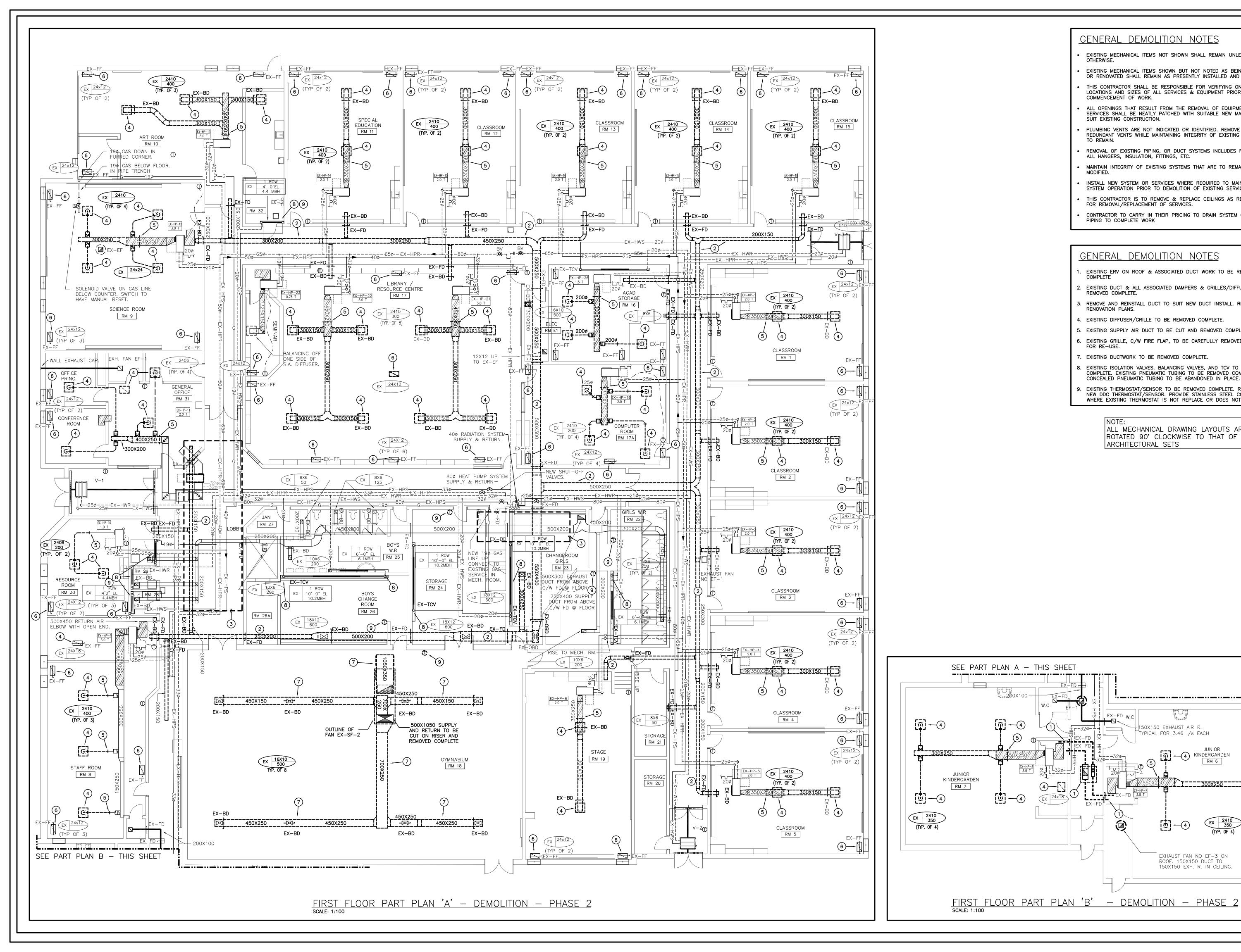
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

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.



FIRST FLOOR PLAN PHASE 1 HVAC RENOVATION



GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED
- OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED
- FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

GENERAL DEMOLITION NOTES

- EXISTING ERV ON ROOF & ASSOCIATED DUCT WORK TO BE REMOVED
- EXISTING DUCT & ALL ASSOCIATED DAMPERS & GRILLES/DIFFUSERS TO BE REMOVED COMPLETE.
- REMOVE AND REINSTALL DUCT TO SUIT NEW DUCT INSTALL. REFER TO RENOVATION PLANS.
- 4. EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE.
- 5. EXISTING SUPPLY AIR DUCT TO BE CUT AND REMOVED COMPLETE.
- 6. EXISTING GRILLE, C/W FIRE FLAP, TO BE CAREFULLY REMOVED AND RETAINED FOR RE-USE.
- 7. EXISTING DUCTWORK TO BE REMOVED COMPLETE.

1 -4

- 8. EXISTING ISOLATION VALVES. BALANCING VALVES, AND TCV TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED COMPLETE. CONCEALED PNEUMATIC TUBING TO BE ABANDONED IN PLACE.
- EXISTING THERMOSTAT/SENSOR TO BE REMOVED COMPLETE. REPLACE WITH NEW DDC THERMOSTAT/SENSOR. PROVIDE STAINLESS STEEL COVER PLATE WHERE EXISTING THERMOSTAT IS NOT REPLACE OR DOES NOT COVER OPENING

ALL MECHANICAL DRAWING LAYOUTS ARE ROTATED 90° CLOCKWISE TO THAT OF THE ARCHITECTURAL SETS

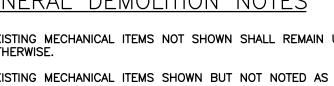
TYPICAL FOR 3.46 I/s EACH

KINDERGARDEN

ROOF. 150X150 DUCT TO 150X150 EXH. R. IN CEILING.

RM 6

EX 2410 350 (TYP. 0F 4)



HALTON

HOLY FAMILY SCHOOL

Architects

Snyder Architects Inc.

100 Broadview Ave., Suite 301, Toronto, ON M4M 3H3 T. 416.966.5444 www.snyderarchitects.ca

Consultants



Consulting Engineers

MECHANICAL | ELECTRICAL | AQUATIC

Tel: 905-333-9119

Structural Consultants Kalos Engineering Inc. 300 York Boulevard Hamilton, ON L8R3K6

Abatement Consultant Maple Environmental Inc. 428 South Service Road. East - Suite 116

Oakville, ON L6J-2X6 Tel: 905-257-4408

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS. MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.



Project North

True North Date Issued for Coordination 2024-03-08 Issued for Coordination 2024-03-11 Issued for Bids & Building 2024-03-26

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same t meet the required conditions.

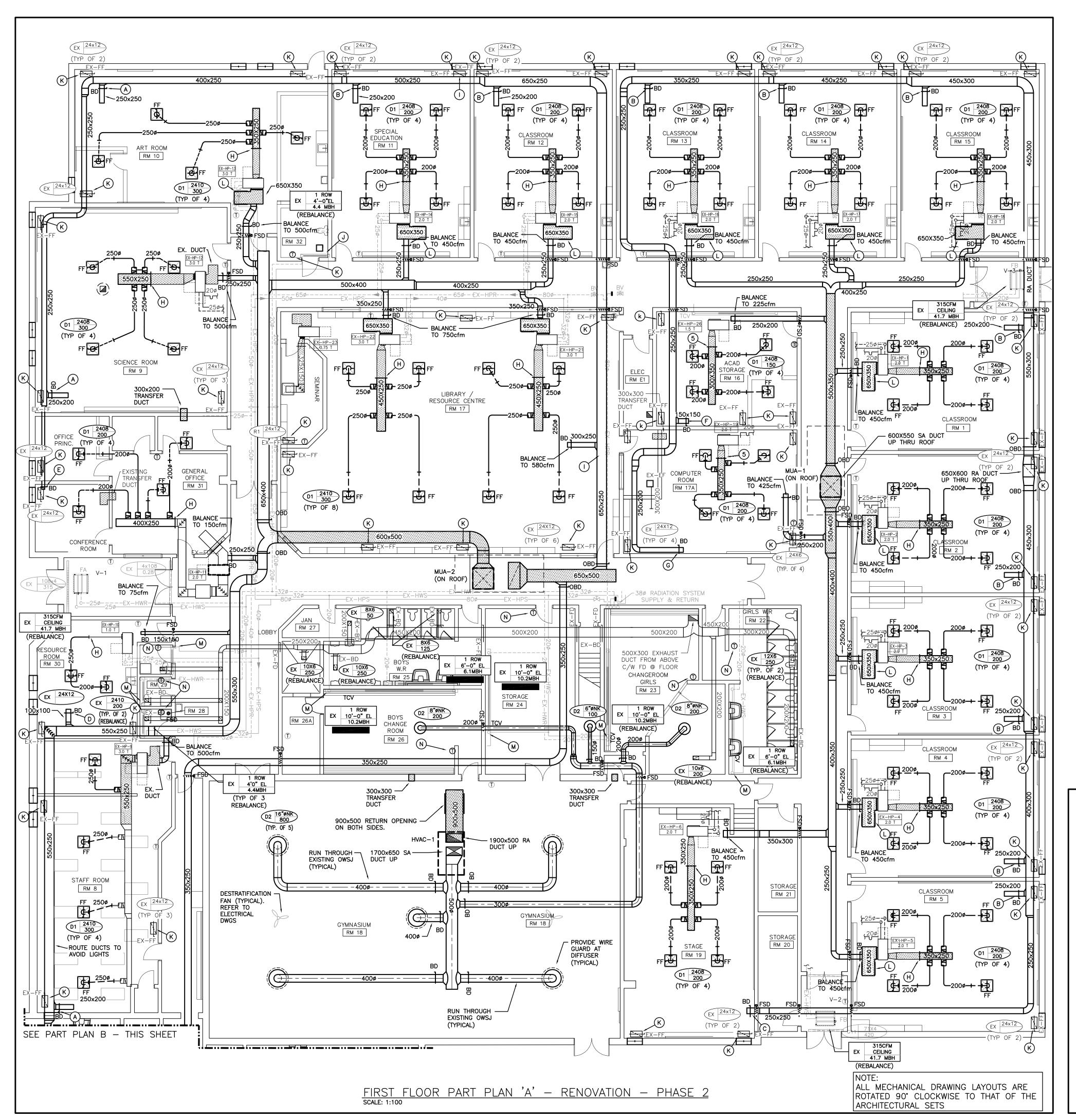
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. The documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale this drawing.

© 2024 DEI Consulting Engineers



FIRST FLOOR PLAN PHASE 2 HVAC DEMOLITION



GENERAL RENOVATION NOTES

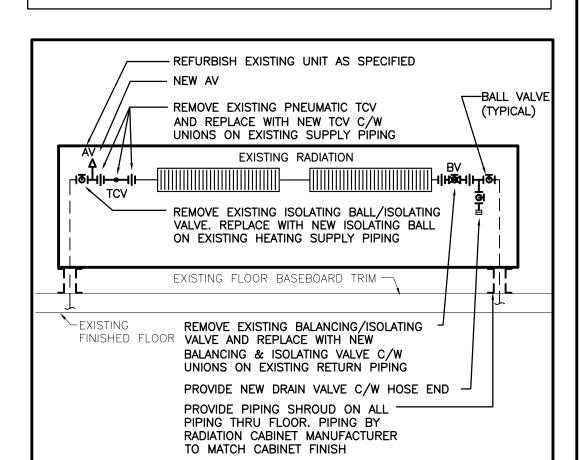
- MAINTAIN REQUIRED SERVICE CLEARANCES FOR ALL HEAT PUMPS AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONSULTANT
- RECOMMENDATIONS.
 CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL
 - REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- CLEAN ALL NEW AND EXISTING DUCTWORK, COILS, DIFFUSERS AND GRILLES AS INDICATED AND SPECIFIED. RE—BALANCE DIFFUSERS/GRILLES TO CAPACITIES AS INDICATED.

SPECIFIC RENOVATION NOTES

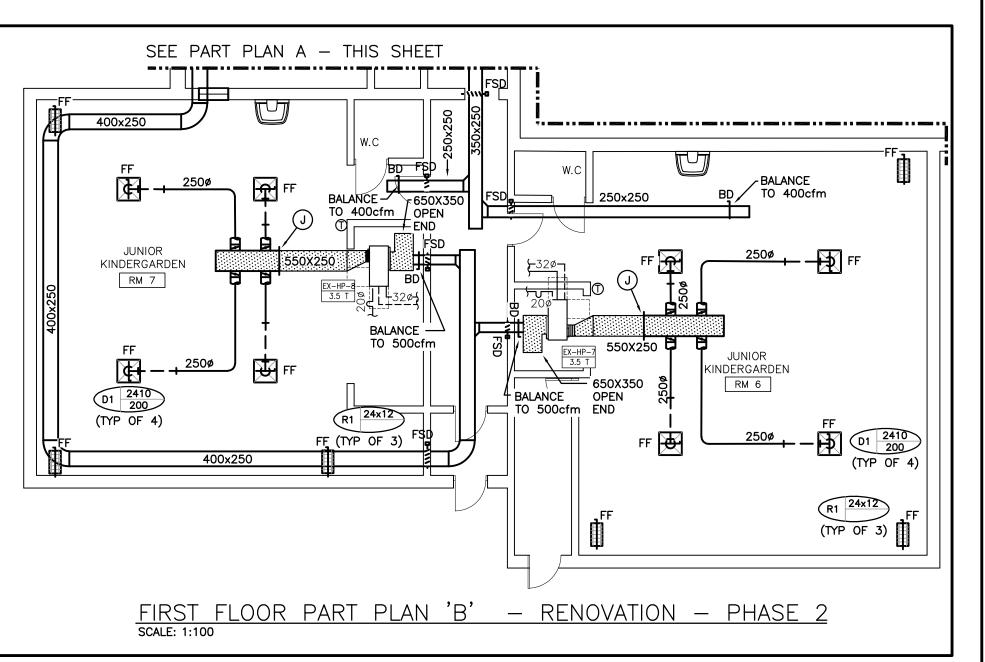
- A. BALANCE TO 400cfm
- B. BALANCE TO 350cfm
- C. BALANCE TO 450cfm
- D. BALANCE TO 25cfm
- E. BALANCE TO 50cfm
- F. BALANCE TO 125cfm
- G. BALANCE TO 325cfm
- H. CONNECT NEW 350x250 DUCT TO EXISTING 350x250 DUCT
- J. CONNECT NEW 550x250 DUCT TO EXISTING 550x250 DUCT
- K. REINSTALL EXISTING RETURN GRILLE, C/W FIRE FLAP, IN NEW CEILING
- .. 650X350 RETURN AIR OPENING BOTH SIDES
- M. PROVIDE NEW TCV, ISOLATION BALL VALVES AND BALANCING VALVE ON EXISTING HWS/R PIPING IN LOCATION OF EXISTING.
- N. NEW CONCEALED DDC THERMOSTAT. FISH WIRE IN EXISTING WALL. PROVIDE WIREMOLD WHERE EXISTING WALL CANNOT BE FISHED.

NOTE

- RE-BALANCE ALL NEW AND EXISTING DIFFUSERS, GRILLES & DUCTWORK TO CAPACITIES AS INDICATED AND SPECIFIED.
- RE-BALANCE ALL OA DUCTS TO EACH HEAT PUMP TO CAPACITIES AS INDICATED AND SPECIFIED.
- EXISTING SPRINKLER HEADS, GRILLES AND DIFFUSERS TO BE TEMPORARILY REMOVED TO ACCOMMODATE HEAT PUMP REMOVAL/INSTALLATION. REINSTALL SPRINKLER HEADS IN THE SAME LOCATION. REFER TO ARCHITECTURAL RCP



EXISTING 1-ROW WALL FIN HEATING RADIATION CABINET





HOLY FAMILY SCHOOL

Architects

Sn/de

Snyder Architects Inc. 100 Broadview Ave., Suite 301, Toronto, ON MAM 3H3

Toronto, ON M4M 3H3
T. 416.966.5444
www.snyderarchitects.ca

Consultants

55 Northland Road,
Waterloo, ON, NaVa yr8
Phone: 53-9725-5355
Website: delassociates.ca
Project Number: 23-287

Ponsulting Engineers ↑↑↑

Project Number: 23-287

Consulting Engineers ∩ ¬
mechanical | electrical | aquatic

Tel: 905-333-9119

Structural Consultants **Kalos Engineering Inc.**300 York Boulevard
Hamilton, ON L8R3K6

Abatement Consultant

Maple Environmental Inc.

428 South Service Road. East - Suite 116
Oakville, ON L6J-2X6

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS.
MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.

Tel: 905-257-4408





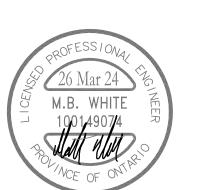
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

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.



FIRST FLOOR PLAN
PHASE 2
HVAC RENOVATION

Scale: AS NOTED

Drawn by: DF

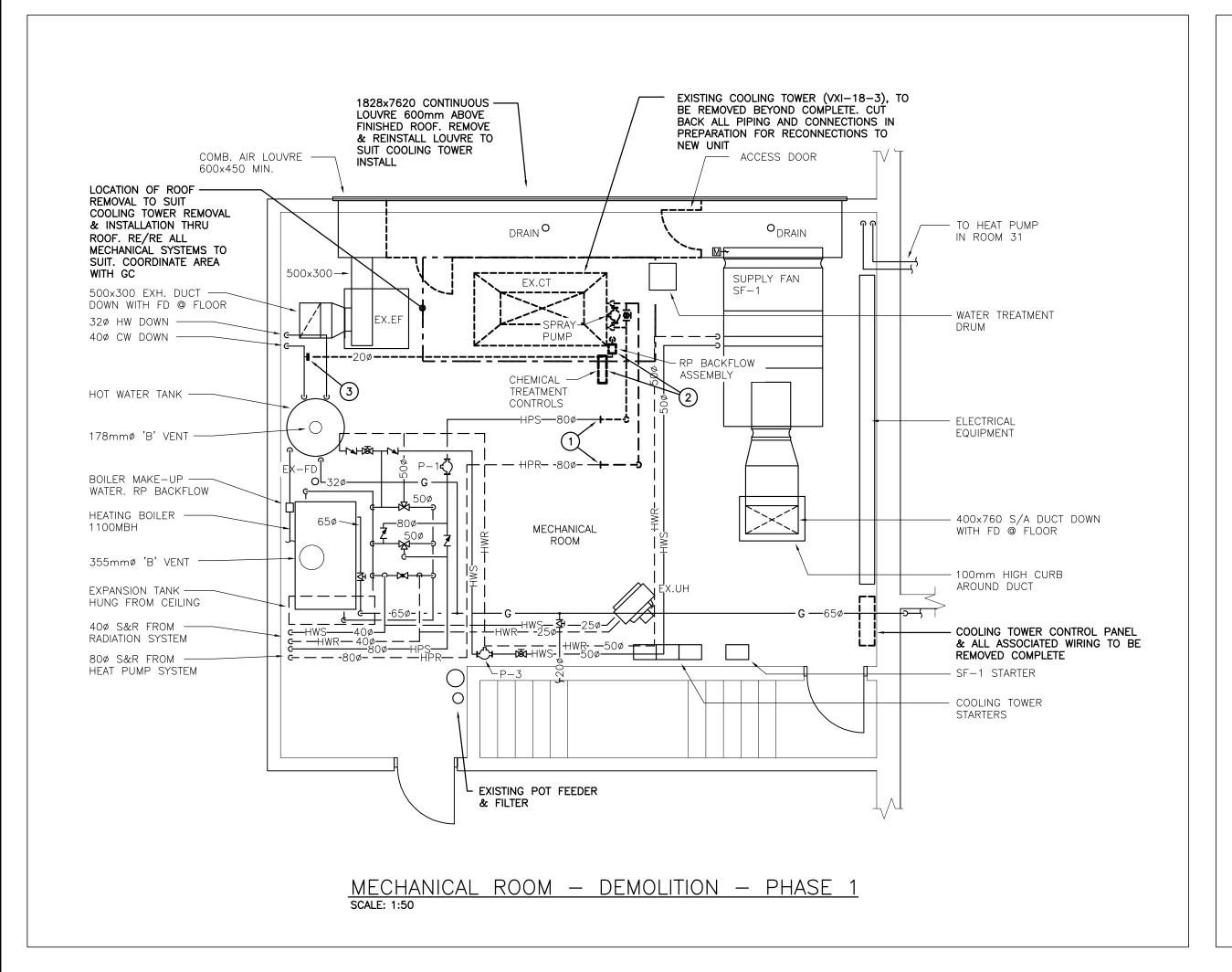
Checked by: MW

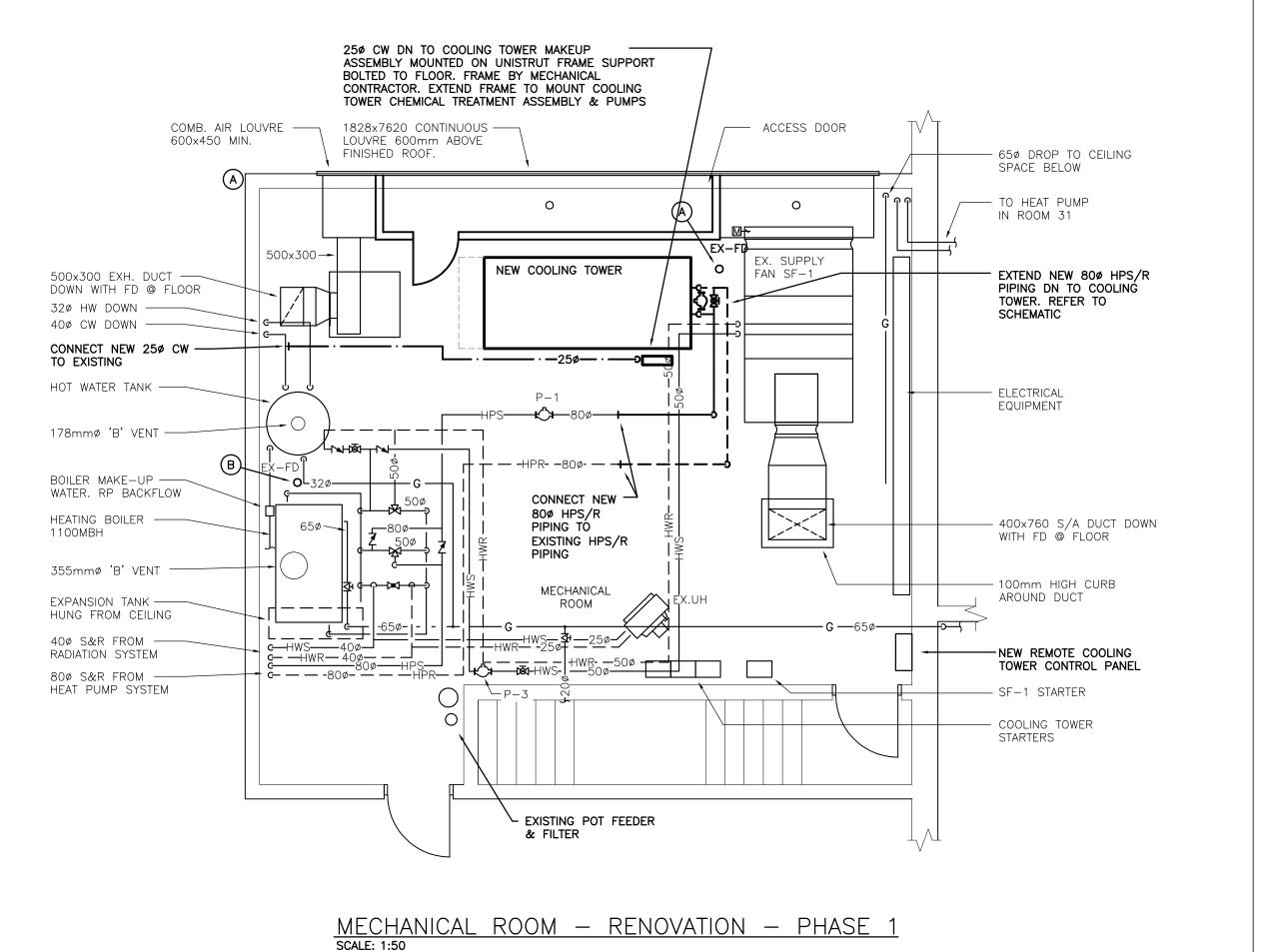
Job No.

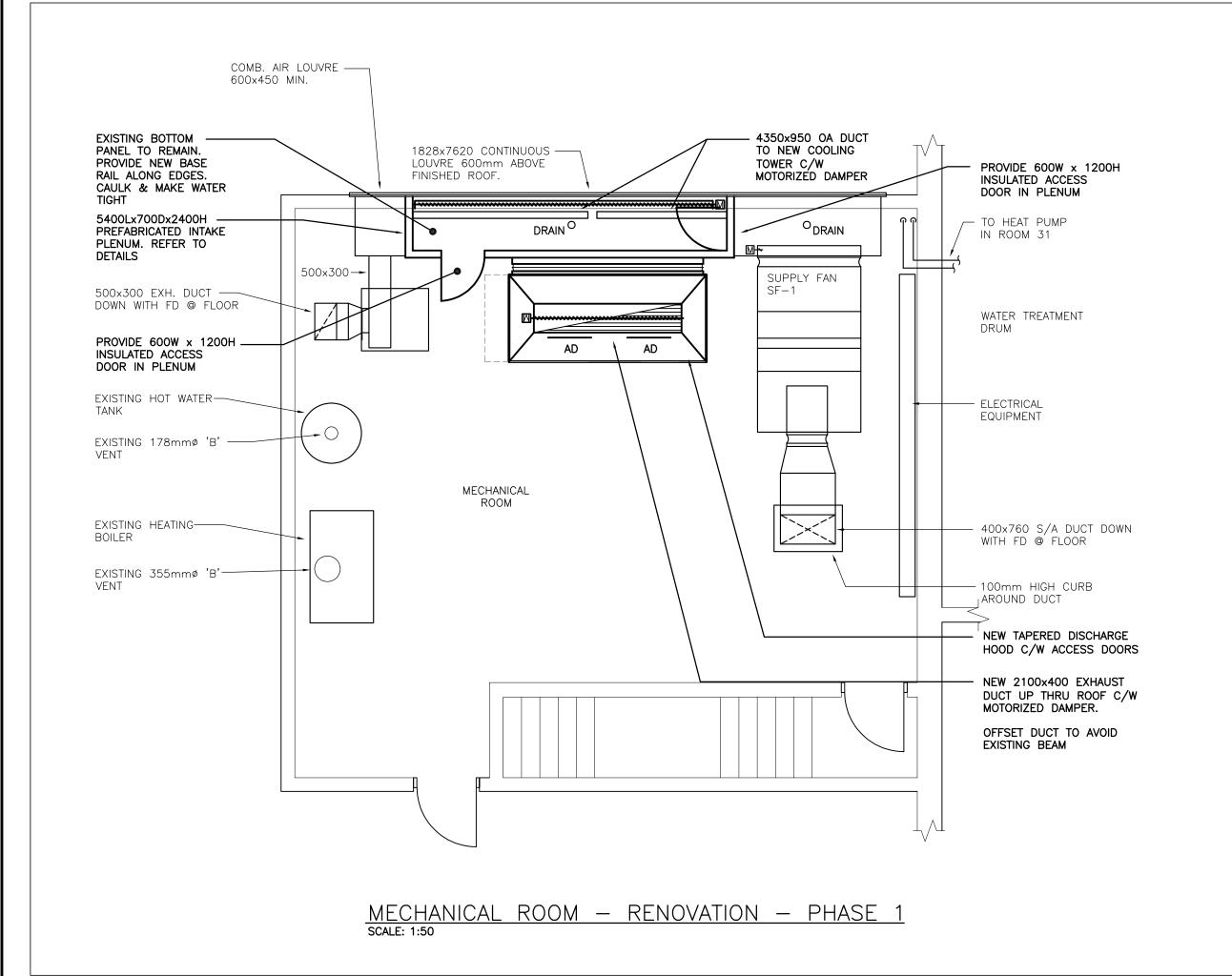
Drawing No.

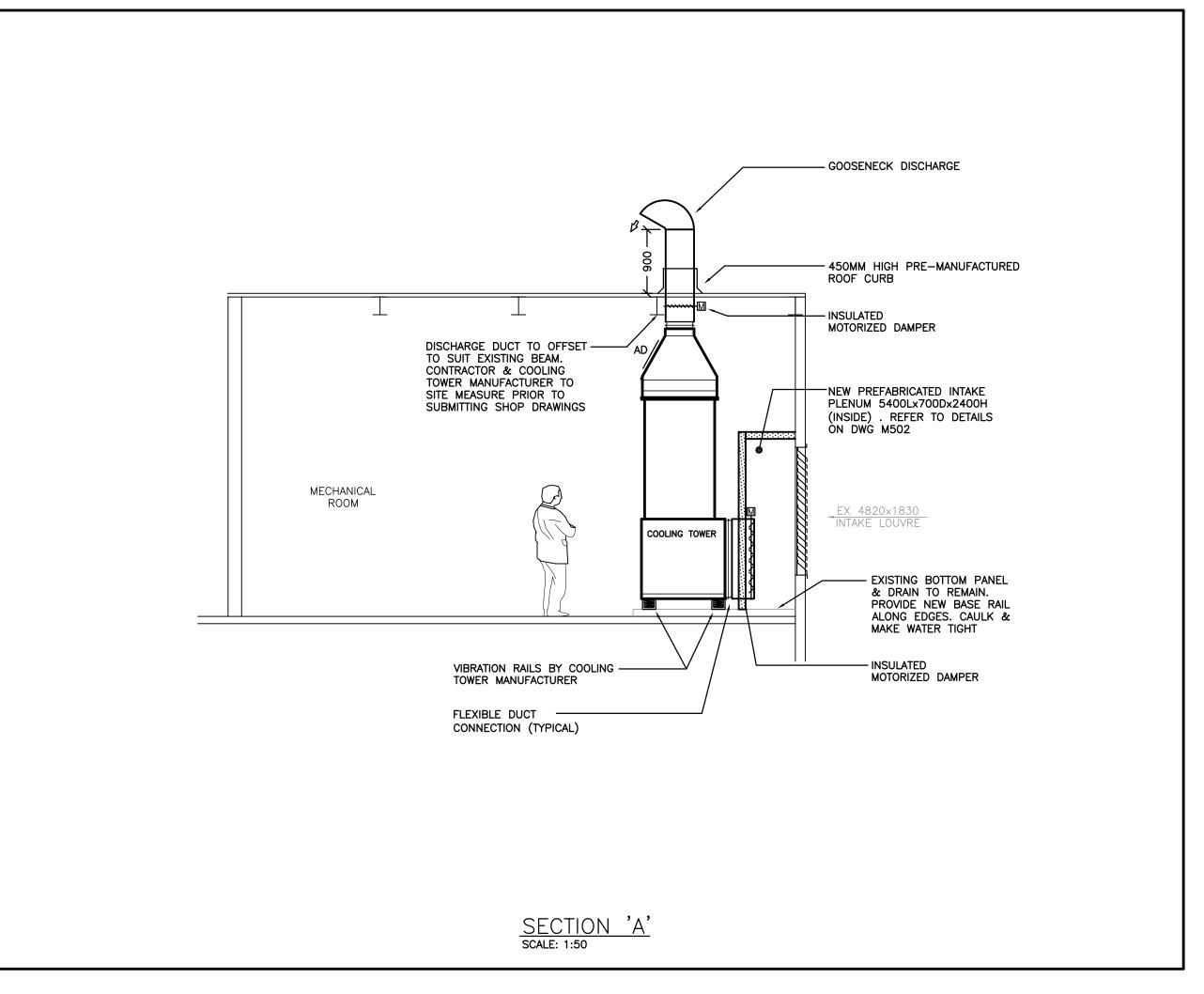
M2.4

ing is sized for 24"x36" sheet size.









- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY
- INSTALLED AND OPERATING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON
- SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH
- SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION. PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE
- ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

- EXISTING HPS/R PIPING & ASSOCIATED VALVES TO BE CUT AND
- REMOVED BEYOND COMPLETE. CHEMICAL TREATMENT CONTROLS & RP BACKFLOW ASSEMBLY
- TO BE REMOVED COMPLETE IN PREPARATION FOR RELOCATION.
- EXISTING COLD WATER LINE TO BE CUT, CAPPED & REMOVED COMPLETE.

SPECIFIC RENOVATION NOTES

- A. ROUTE ALL DRAINS TO EXISTING FLOOR DRAINS. CHIP OUT & REPLACE EXISTING FLOOR DRAIN WITH NEW FFD-1 TYPE DRAIN. RELOCATE DRAIN TO SUIT NEW COOLING TOWER AS REQUIRED.
- ROUTE ALL DRAINS TO EXISTING FLOOR DRAINS. CHIP OUT & REPLACE EXISTING FLOOR DRAIN WITH NEW FFD-1 TYPE DRAIN.

THE CONTRACTOR WILL TAKE ALL NECESSARY STEPS TO HAVE EQUIPMENT THAT WAS REMOVED/REPLACED AS PART OF ANY WORK DISPOSED OF OR DECOMMISSIONED IN ACCORDANCE WITH APPROPRIATE DISPOSAL OR DECOMMISSIONING PROCESSES, APPLICABLE LAWS, AND IN ACCORDANCE WITH COMMERCIALLY REASONABLE ENVIRONMENTAL PRACTICES. THE CONTRACTOR MUST SUBMIT WRITTEN PROOF, EVIDENCE OR ACKNOWLEDGEMENT THAT THE DISPOSAL OF ALL MATERIALS WAS DONE SO IN ACCORDANCE WITH ALL CURRENT DISPOSAL REQUIREMENTS. CONTRACTOR TO SUBMIT ALL REQUIRED PAPERWORK.

ALL MECHANICAL ROOM DRAWING LAYOUTS ARE ORIENTED AS PER ARCHITECTURAL SETS

GENERAL DEMOLITION NOTES

HALTON

HOLY FAMILY SCHOOL

Architects

Snyder Architects Inc.

100 Broadview Ave., Suite 301, Toronto, ON M4M 3H3 T. 416.966.5444

www.snyderarchitects.ca Consultants

Consulting Engineers ∩

MECHANICAL | ELECTRICAL | AQUATIC

Structural Consultants Kalos Engineering Inc. 300 York Boulevard Hamilton, ON L8R3K6

Tel: 905-333-9119

Abatement Consultant Maple Environmental Inc. 428 South Service Road. East - Suite 116 Oakville, ON L6J-2X6

Tel: 905-257-4408

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES, REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS. MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.





True North Date Issued for Coordination 2024-03-08 Issued for Coordination 2024-03-11 Issued for Bids & Building 2024-03-26

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.

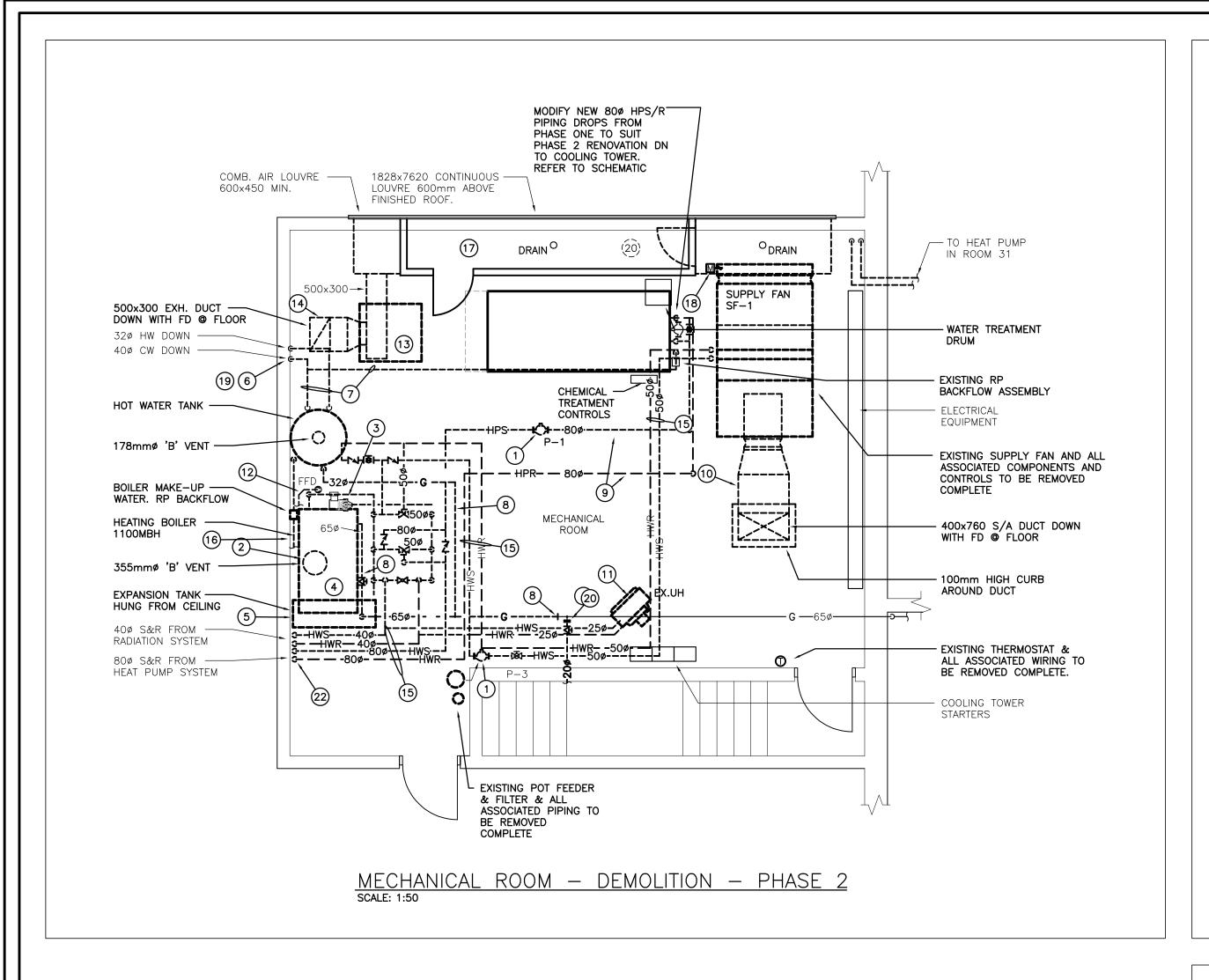
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

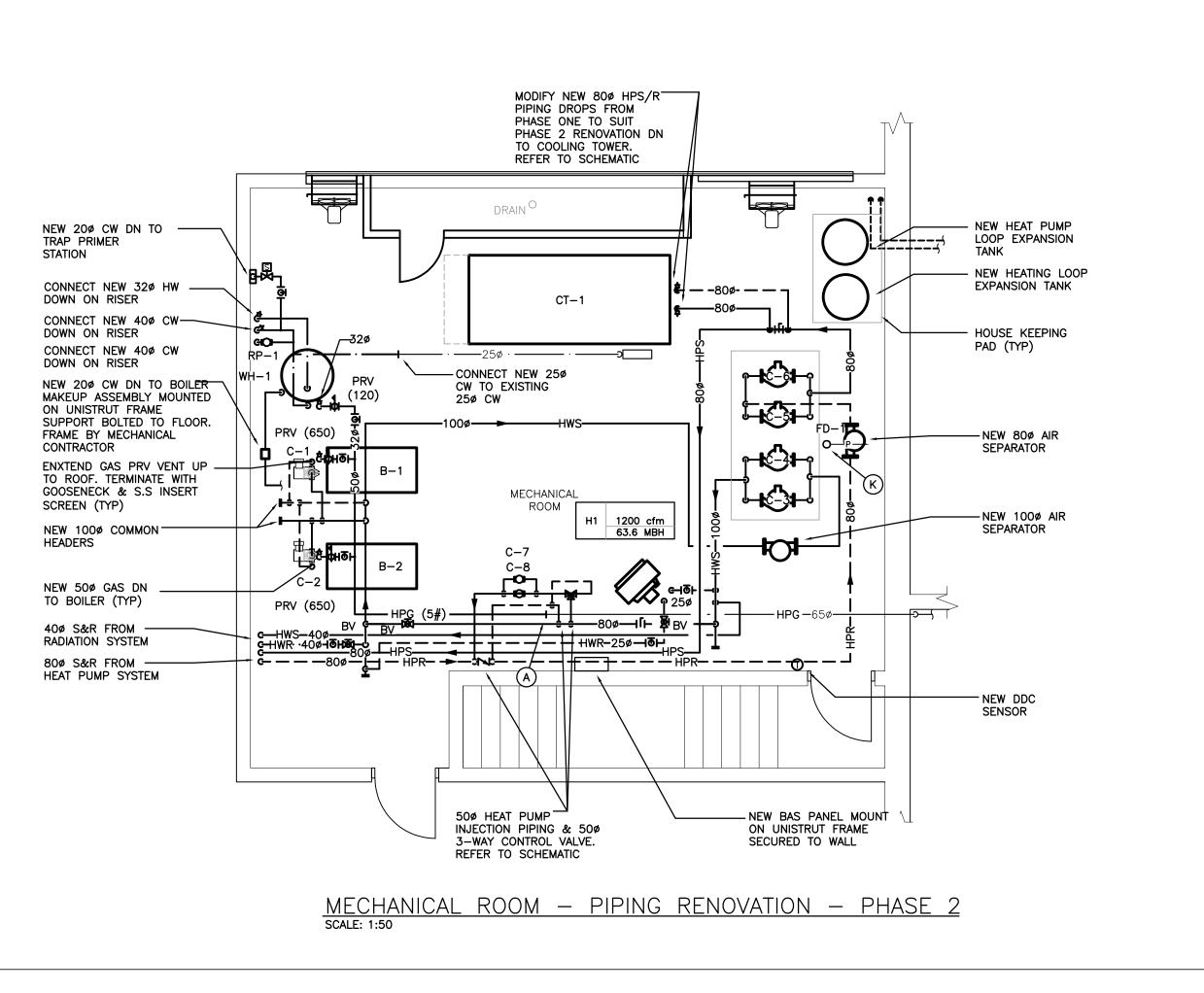
Do not scale this drawing.

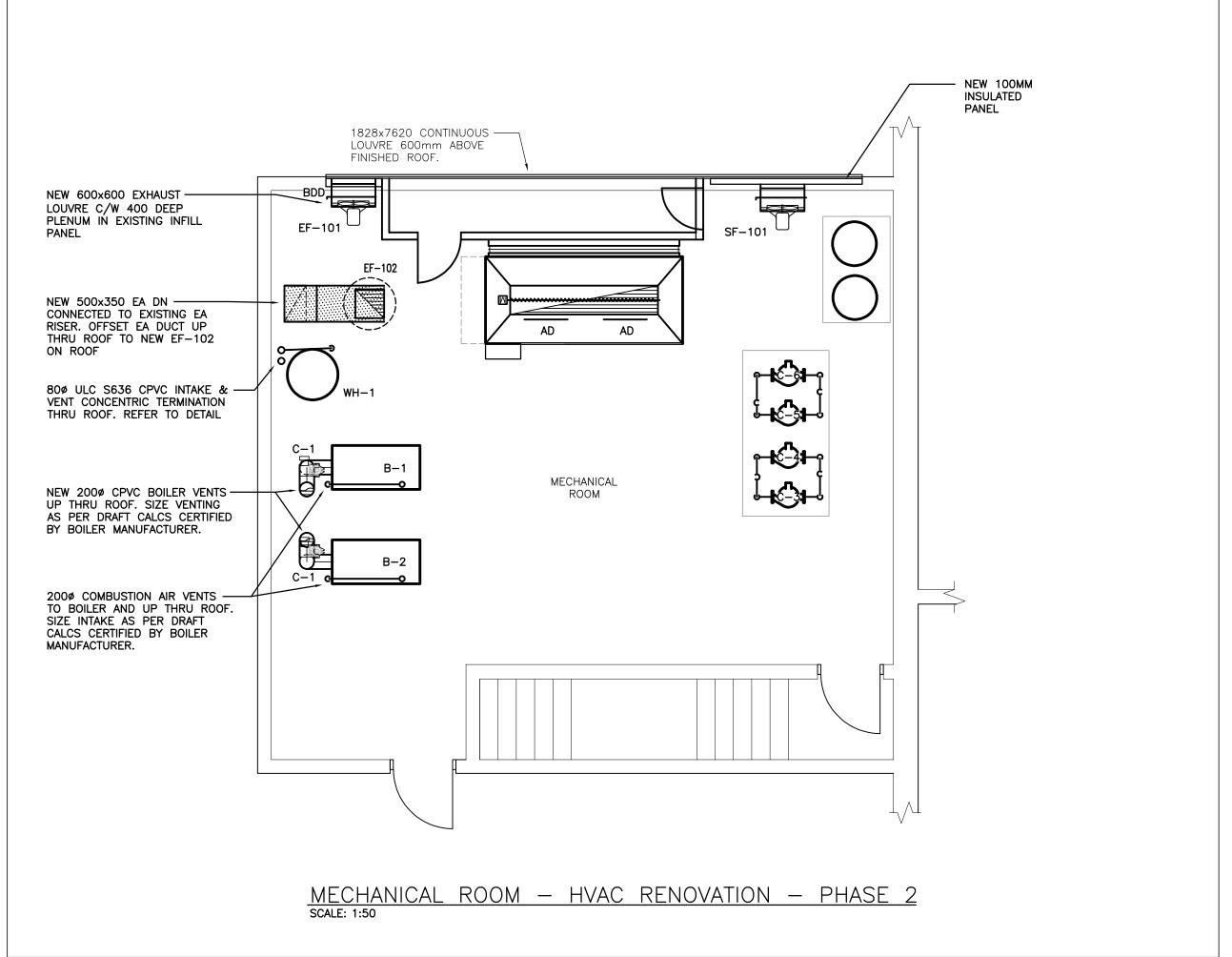
© 2024 DEI Consulting Engineers



MECHANICAL ROOM PHASE 1 MECH. DEMO/RENO







GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES &
- EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

SPECIFIC DEMOLITION NOTES

- EXISTING CIRCULATION PUMP & ASSOCIATED CONTROLS TO BE REMOVED COMPLETE.
- 2. EXISTING BOILER VENTING TO BE REMOVED COMPLETE.
- EXISTING BOILER PUMP & ASSOCIATED CONTROLS TO BE REMOVED COMPETE.
- EXISTING BOILER & ASSOCIATED PIPING, DRAINS & CONTROLS
- TO BE REMOVED COMPETE. EXISTING EXPANSION TANK, ASSOCIATED VALVES, PIPING & DRAIN
- TO BE REMOVED BEYOND COMPLETE. EXISTING DOMESTIC H&CW PIPING TO BE CUT AND REMOVED
- BEYOND COMPLETE.
- EXISTING DOMESTIC H&CW PIPING TO BE REMOVED COMPLETE. EXISTING GAS PIPING TO BE CUT AND REMOVED BEYOND
- COMPLETE. EXISTING HPS/R PIPING & ASSOCIATED VALVES TO BE REMOVED
- COMPLETE. 10. EXISTING DUCTWORK TO BE REMOVED COMPLETE.
- 11. EXISTING UNIT HEATER & ASSOCIATED PIPING & CONTROLS TO
- BE REMOVED COMPLETE.
- 12. EXISTING DRAIN PIPING TO BE REMOVED BEYOND COMPLETE.
- 13. EXISTING EXHAUST FAN & ASSOCIATED DUCT & CONTROLS TO BE REMOVED BEYOND COMPLETE. CUT DUCT AT RISER 14. EXISTING 500x300 EA DUCT TO BE CUT ON RISER & REMOVED
 - COMPLETE. 15. EXISTING HWS/R PIPING & ASSOCIATED VALVES TO BE REMOVED
 - COMPLETE. 16. EXISTING 200 DOMESTIC COLD WATER RP BACKFLOW PREVENTOR
 - TO BE REMOVED & REPLACED WITH NEW. 17. EXISTING BOTTOM PANEL & DRAIN TO BE MAINTAINED.
 - 18. EXISTING MOTORIZED DAMPER & ASSOCIATED CONTROLS TO BE REMOVED COMPLETE.
 - 19. CUT PIPING AT RISER.
 - 20. EXISTING GAS LINE TO BE CUT, CAPPED & REMOVED COMPLETE.

SPECIFIC RENOVATION NOTES

- A. CONNECT NEW 650 GAS PIPING TO EXISTING 650 GAS PIPING
- B. CONNECT NEW 25¢ DOMESTIC CW PIPING TO EXISTING 25¢ DOMESTIC CW PIPING.
- CONNECT NEW 20¢ DOMESTIC CW PIPING TO EXISTING 20¢ DOMESTIC CW PIPING.
- D. CONNECT NEW 150 DOMESTIC HW PIPING TO EXISTING
- DOMESTIC HW MAIN.
- NEW 600x600 PLENUM C/W 600X600 FILTER RACK, FILTER FRAME & 25MM DISPOSABLE FILTER.
- . CONNECT NEW 320 CW PIPING TO EXISTING 320 CW PIPING.
- G. CONNECT NEW 400 HW PIPING TO EXISTING 400 HW PIPING. H. CONNECT NEW 150 RECIRC PIPING TO EXISTING 150 RECIRC
- J. CONNECT NEW 320 GAS PIPING TO EXISTING 320 GAS PIPING.
- K. NEW 50¢ FLOOR DRAIN. EXTEND & CONNECT TO SUITABLY SIZED EXISTING SANITARY MAIN. CAMERA EXISTING DRAIN AS

ALL MECHANICAL ROOM DRAWING LAYOUTS ARE ORIENTED AS PER ARCHITECTURAL SETS



HOLY FAMILY SCHOOL

Architects

Snyder Architects Inc.

100 Broadview Ave., Suite 301, Toronto, ON M4M 3H3 T. 416.966.5444

www.snyderarchitects.ca Consultants

Consulting Engineers n MECHANICAL | ELECTRICAL | AQUATIC

Structural Consultants Kalos Engineering Inc. 300 York Boulevard Hamilton, ON L8R3K6

Tel: 905-333-9119

Abatement Consultant Maple Environmental Inc. 428 South Service Road. East - Suite 116 Oakville, ON L6J-2X6 Tel: 905-257-4408

CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS. MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.







The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

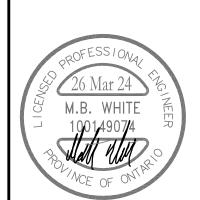
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.

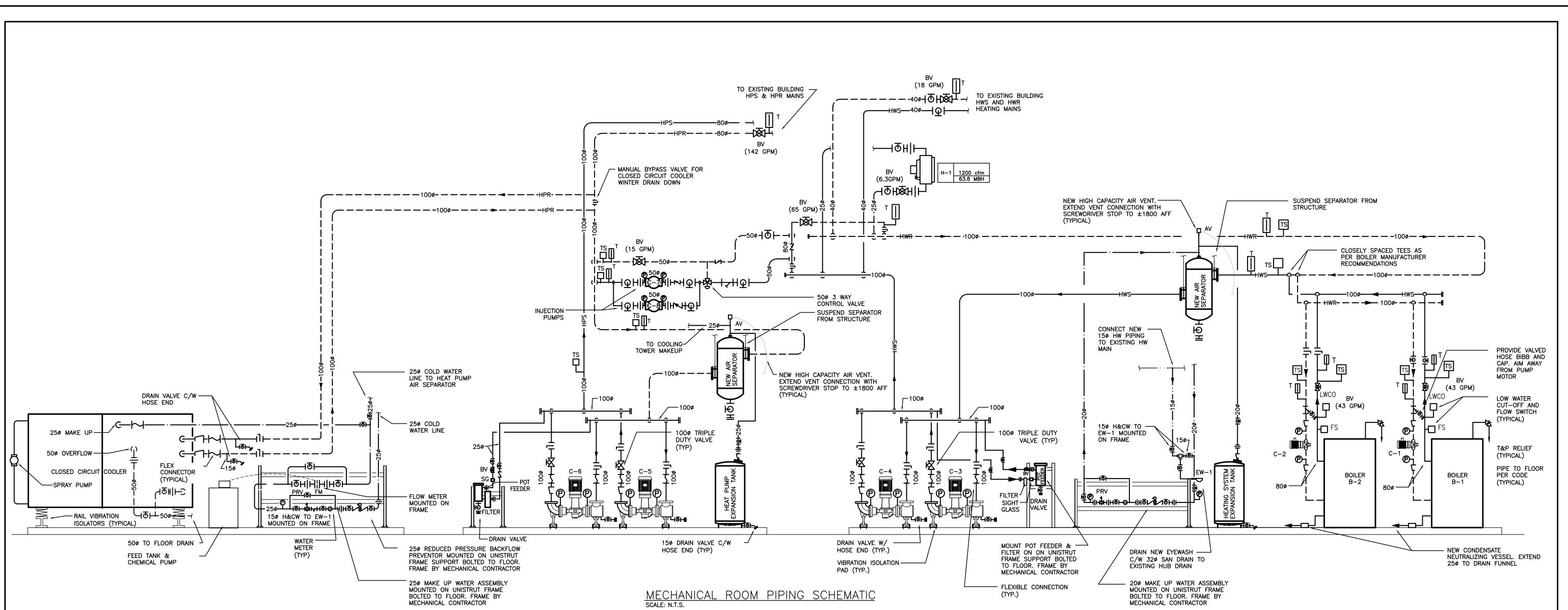
Drawings and specifications, etc., prepared and issued by the Consultant are the property of the Consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.

Do not scale this drawing. Do not scale this drawing.

2024 DEI Consulting Engineers



MECHANICAL ROOM PHASE 2 MECH. DEMO/RENO





HOLY FAMILY SCHOOL

Architects

Sn/der
Snyder Architects Inc.

T. 416.966.5444 www.snyderarchitects.ca

100 Broadview Ave., Suite 301,

Toronto, ON M4M 3H3



Consulting Engineers

Structural Consultants **Kalos Engineering Inc.**300 York Boulevard
Hamilton, ON L8R3K6

Tel: 905-333-9119

Abatement Consultant

Maple Environmental Inc.

428 South Service Road. East - Suite 116
Oakville, ON L6J-2X6

Tel: 905-257-4408

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS.
MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.

No.	Revisions	Dat
1	Issued for Coordination	2024-0
2	Issued for Coordination	2024-0
3	Issued for Bids & Building Permit	2024-0

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.

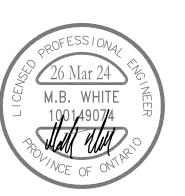
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.

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.

© 2024 DEI Consulting Engineers



MECHANCIAL ROOM
PIPING SCHEMATIC

Scale: AS NOTED

Drawn by: DF

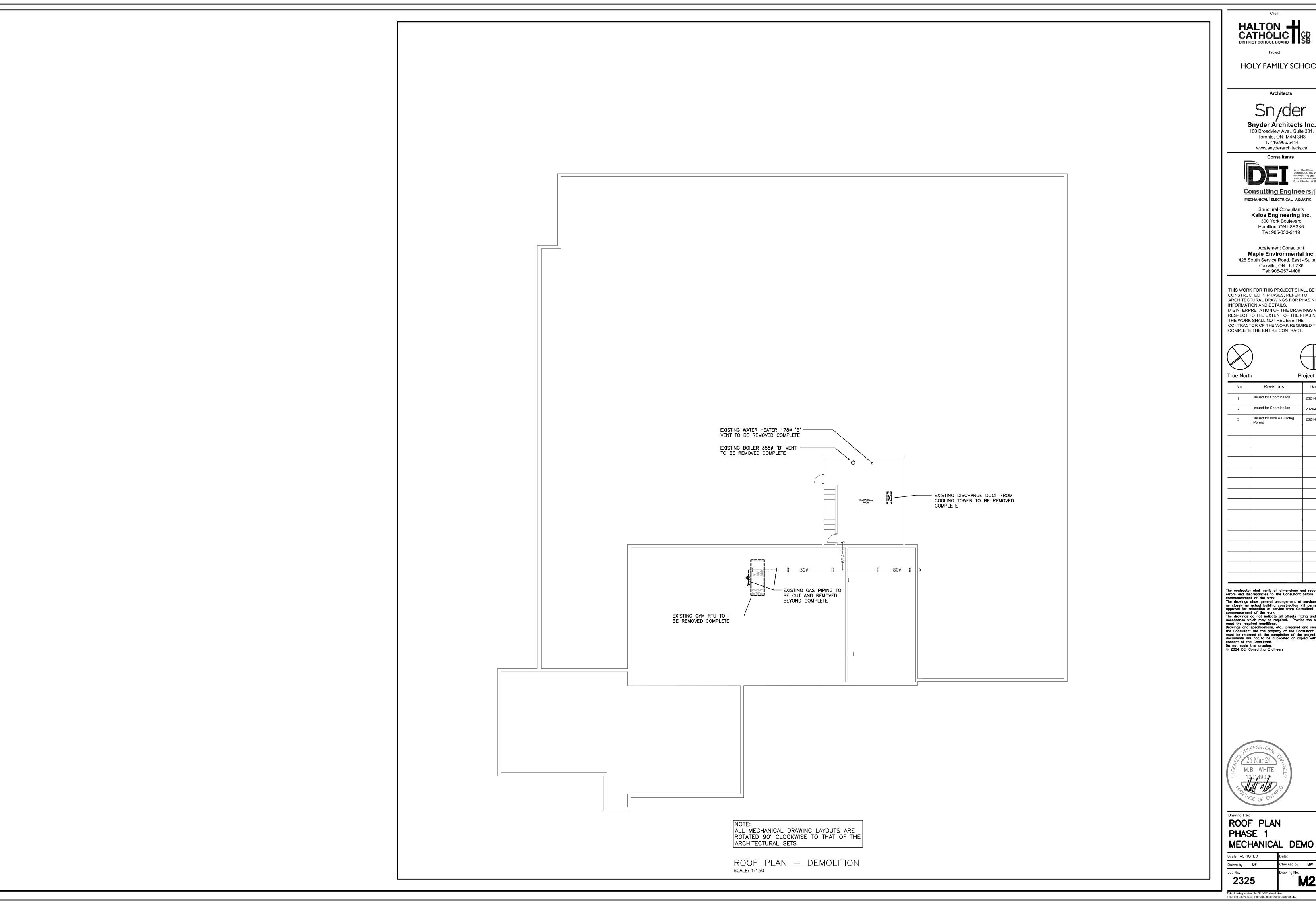
Checked by: MW

Drawing No.

2325

Drawing No.

ing is sized for 24"x36" sheet size.





HOLY FAMILY SCHOOL

Architects

Sn/der
Snyder Architects Inc.

Toronto, ON M4M 3H3 T. 416.966.5444 www.snyderarchitects.ca



Consulting Engineers ∩ \

MECHANICAL | ELECTRICAL | AQUATIC Structural Consultants **Kalos Engineering Inc.**300 York Boulevard

Hamilton, ON L8R3K6 Tel: 905-333-9119

Abatement Consultant Maple Environmental Inc. 428 South Service Road. East - Suite 116 Oakville, ON L6J-2X6 Tel: 905-257-4408

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES, REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS. MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.





)		
ue North		Project North	
No.	Revisions	Date	
1	Issued for Coordination	2024-03-08	
2	Issued for Coordination	2024-03-11	
3	Issued for Bids & Building Permit	2024-03-26	

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.

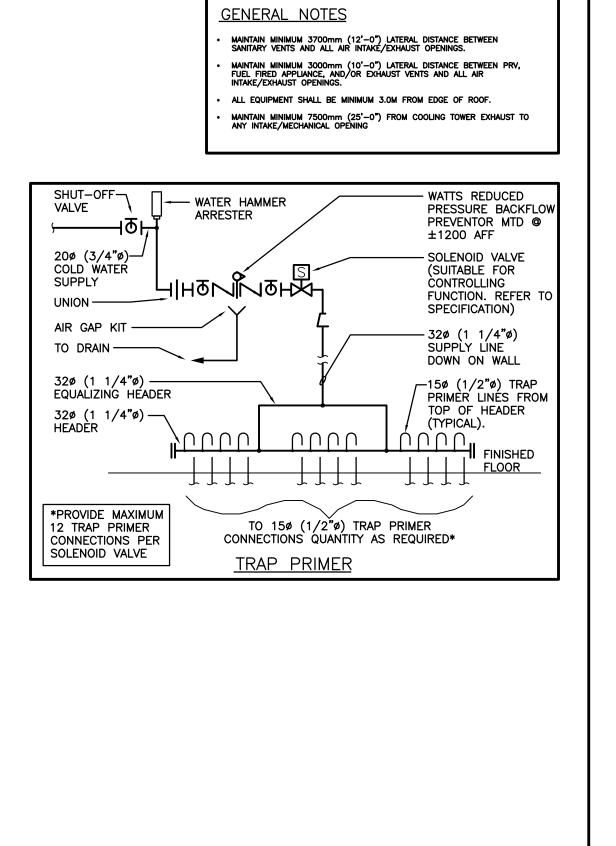
Do not scale this drawing.

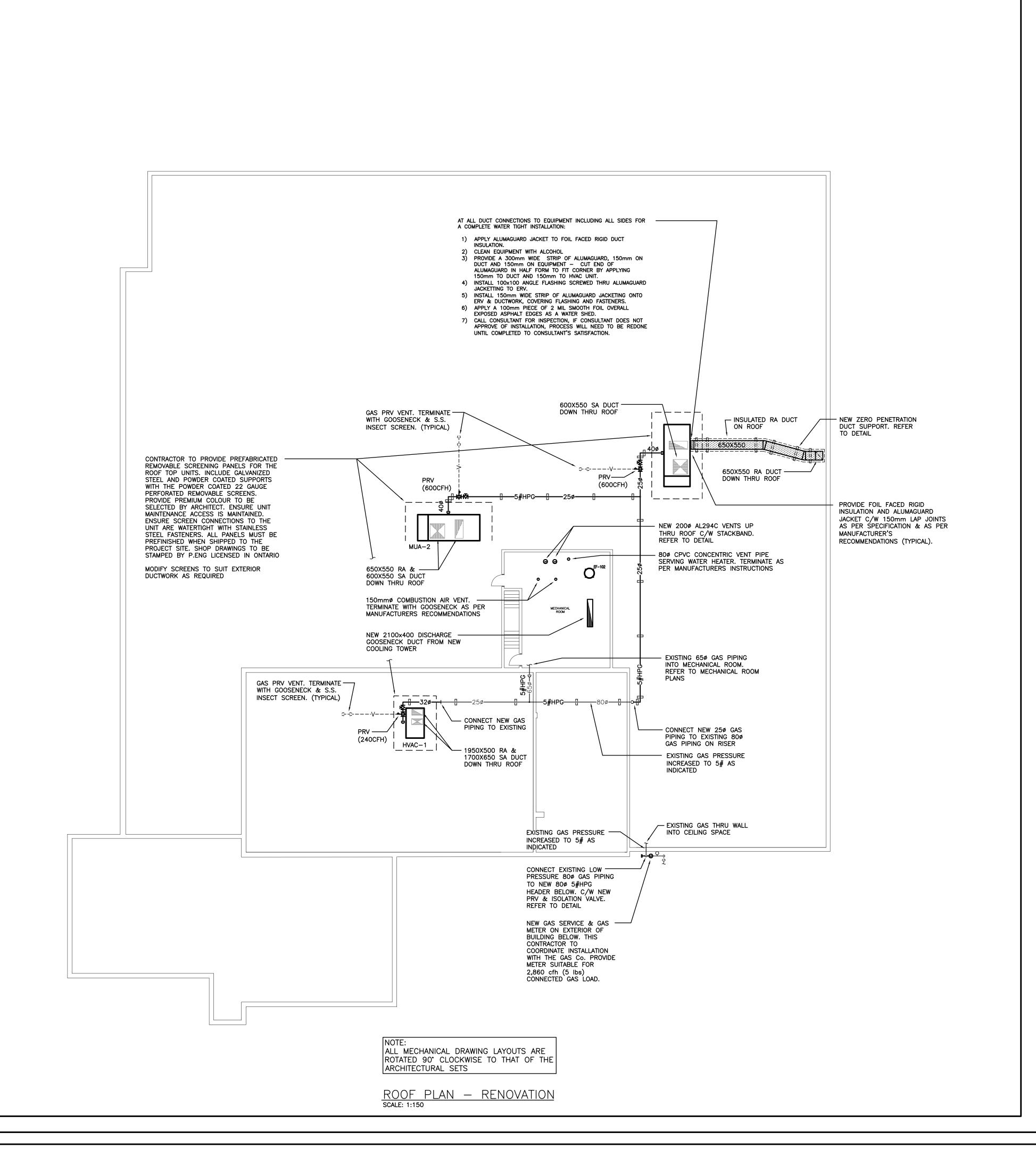
© 2024 DEI Consulting Engineers



ROOF PLAN PHASE 1 MECHANICAL DEMO

Scale: AS NOTED Checked by: MW Drawn by: **DF**







DISTRICT SCHOOL BOARD ■ ■ 3 D

Project

Architects

HOLY FAMILY SCHOOL

Snyder Architects Inc. 100 Broadview Ave., Suite 301,

> T. 416.966.5444 www.snyderarchitects.ca

Toronto, ON M4M 3H3



Consulting Engineers

Structural Consultants **Kalos Engineering Inc.**300 York Boulevard

Hamilton, ON L8R3K6

Tel: 905-333-9119

Abatement Consultant

Maple Environmental Inc.

428 South Service Road. East - Suite 116
Oakville, ON L6J-2X6
Tel: 905-257-4408

THIS WORK FOR THIS PROJECT SHALL BE CONSTRUCTED IN PHASES. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING INFORMATION AND DETAILS.
MISINTERPRETATION OF THE DRAWINGS WITH RESPECT TO THE EXTENT OF THE PHASING OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF THE WORK REQUIRED TO COMPLETE THE ENTIRE CONTRACT.





No. 1 2	Revisions Issued for Coordination	Date
	Issued for Coordination	
2		2024-03-08
	Issued for Coordination	2024-03-11
3	Issued for Bids & Building Permit	2024-03-26

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.



Prawing Title:

ROOF PLAN
PHASE 1
MECHANICAL

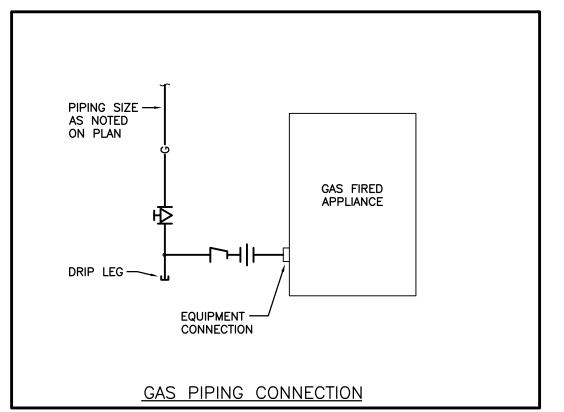
 Scale: AS NOTED
 Date:

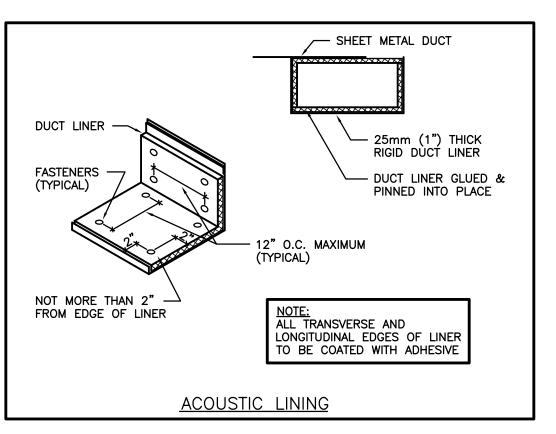
 Drawn by: DF
 Checked by: MW

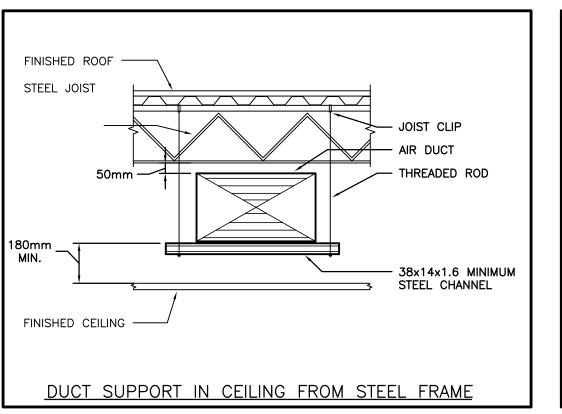
 Job No.
 Drawing No.

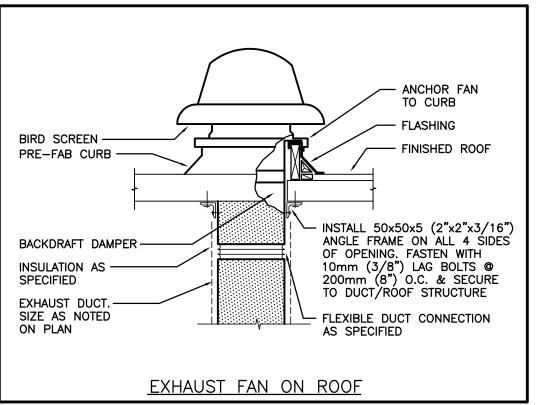
 2325
 M2

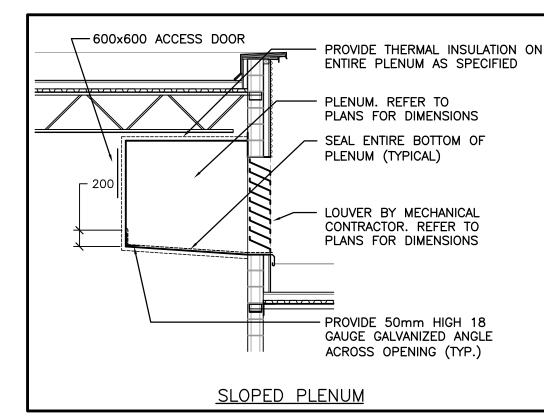
awing is sized for 24"x36" sheet size.

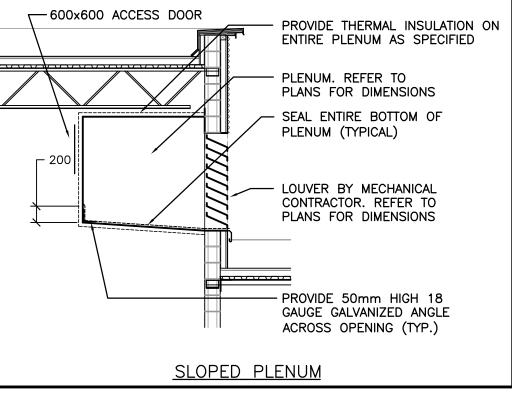


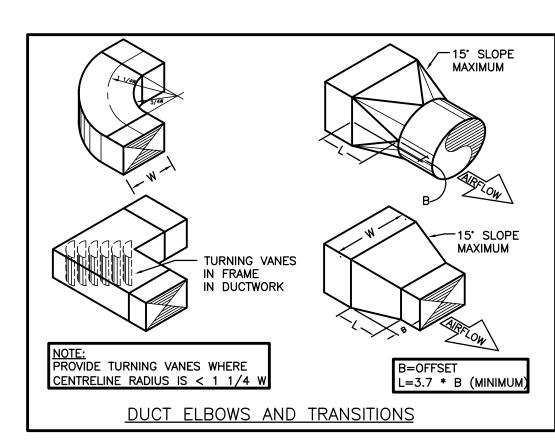


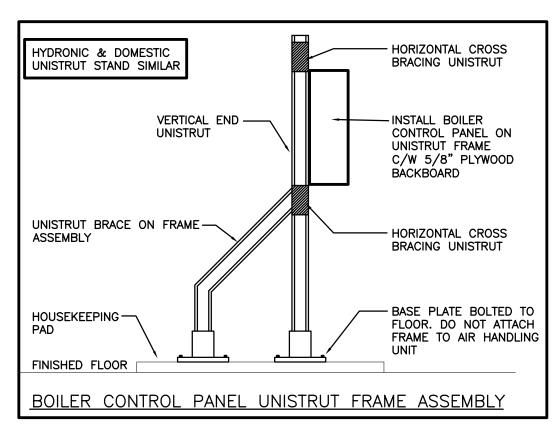


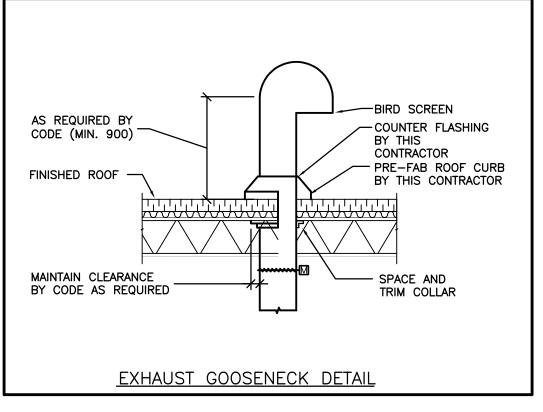


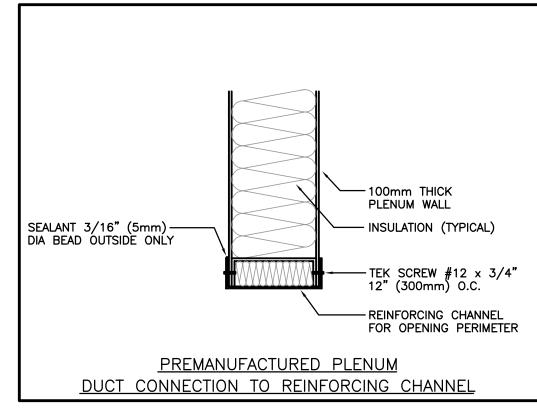


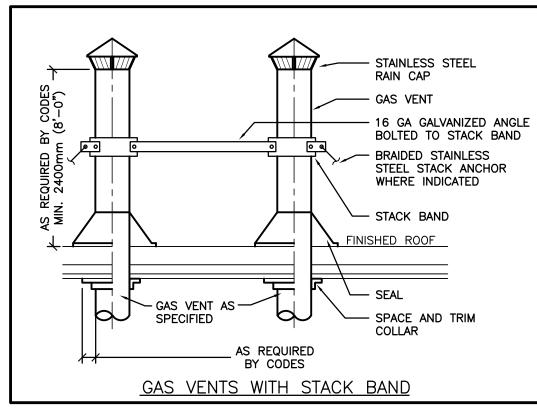


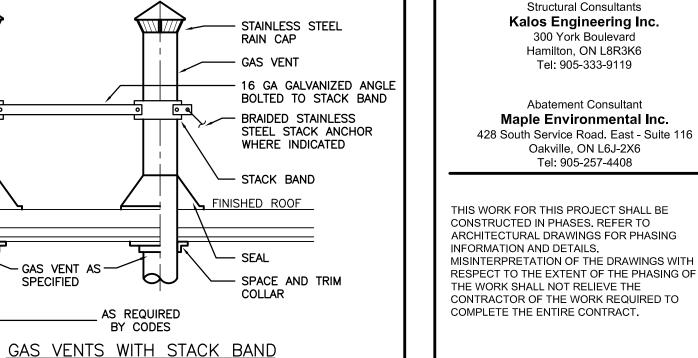


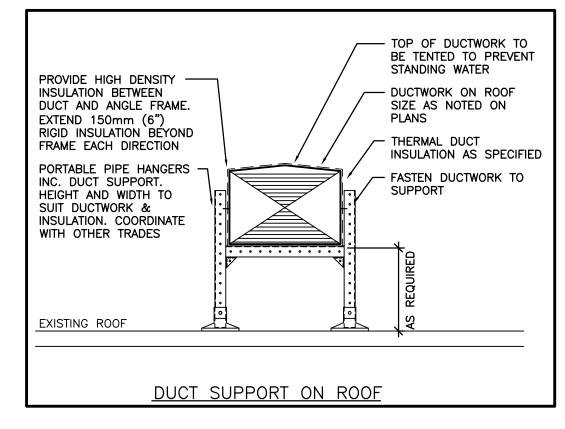


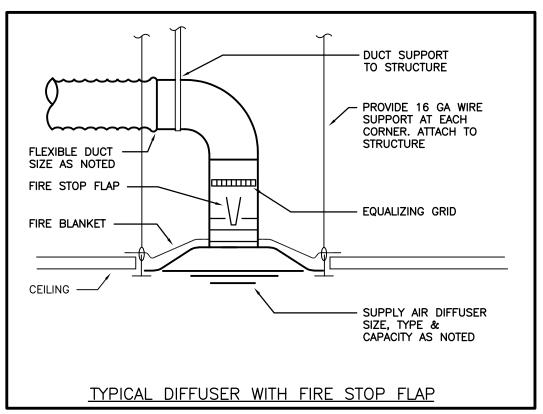


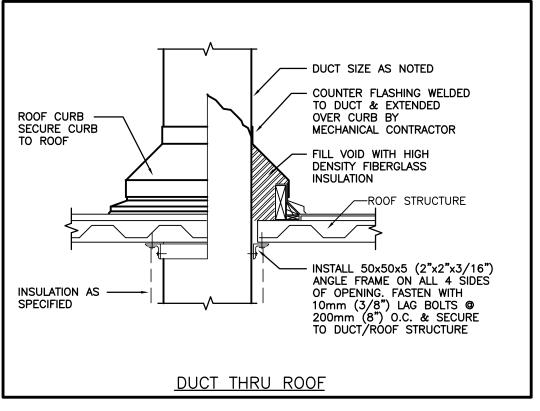


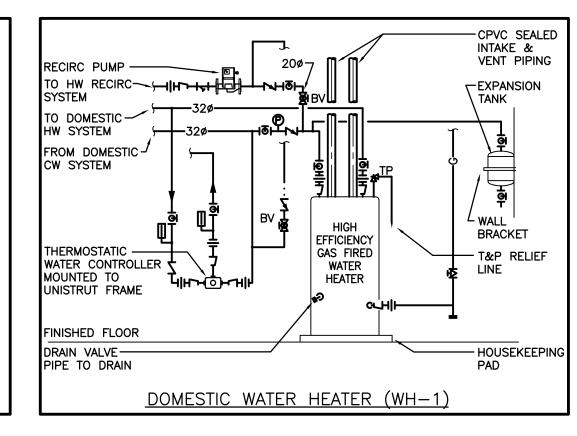


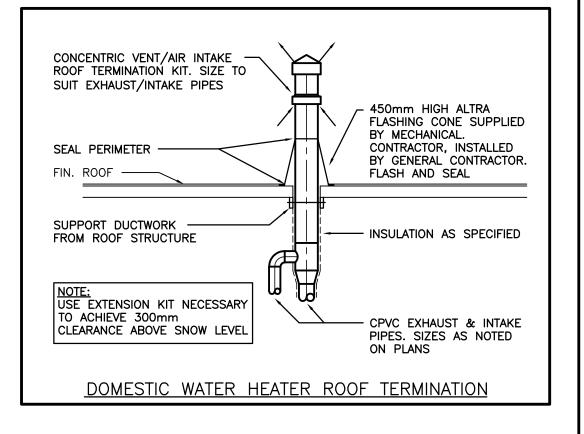


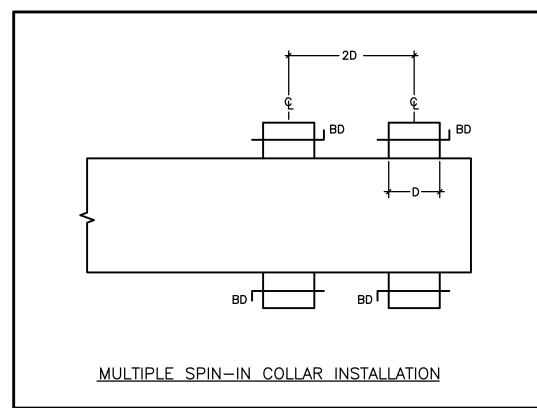


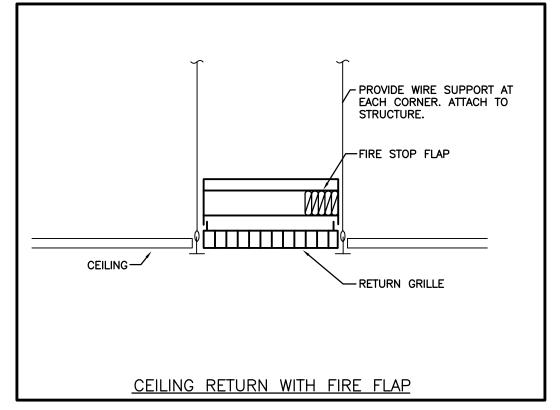


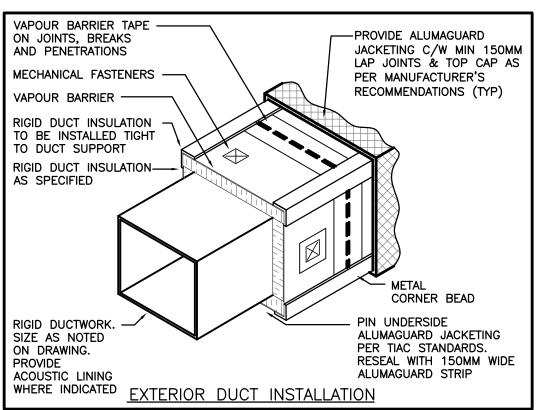


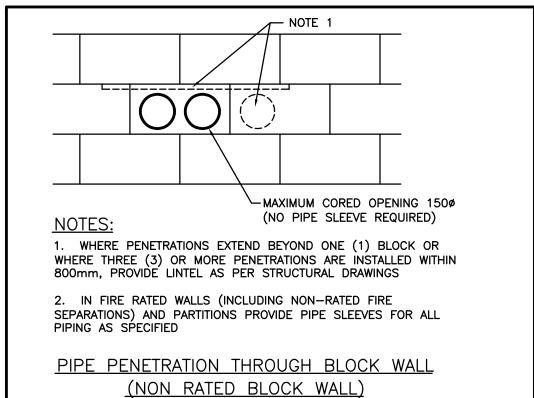


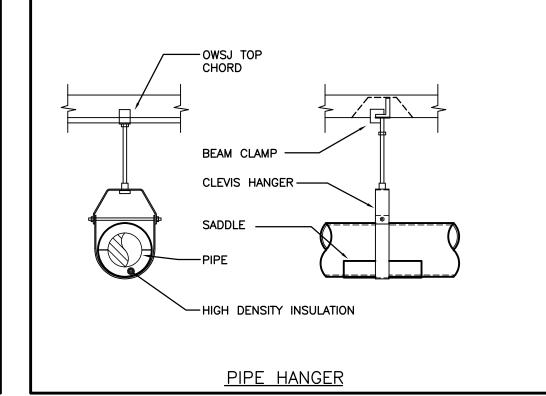


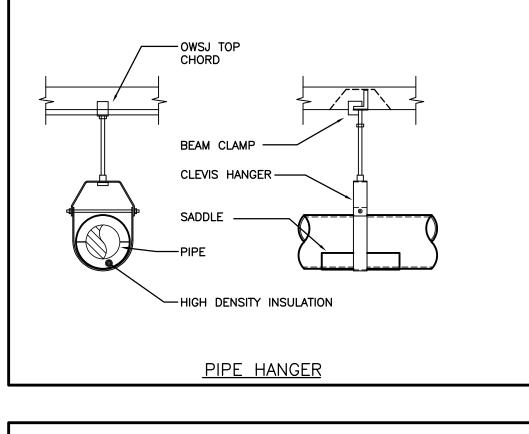


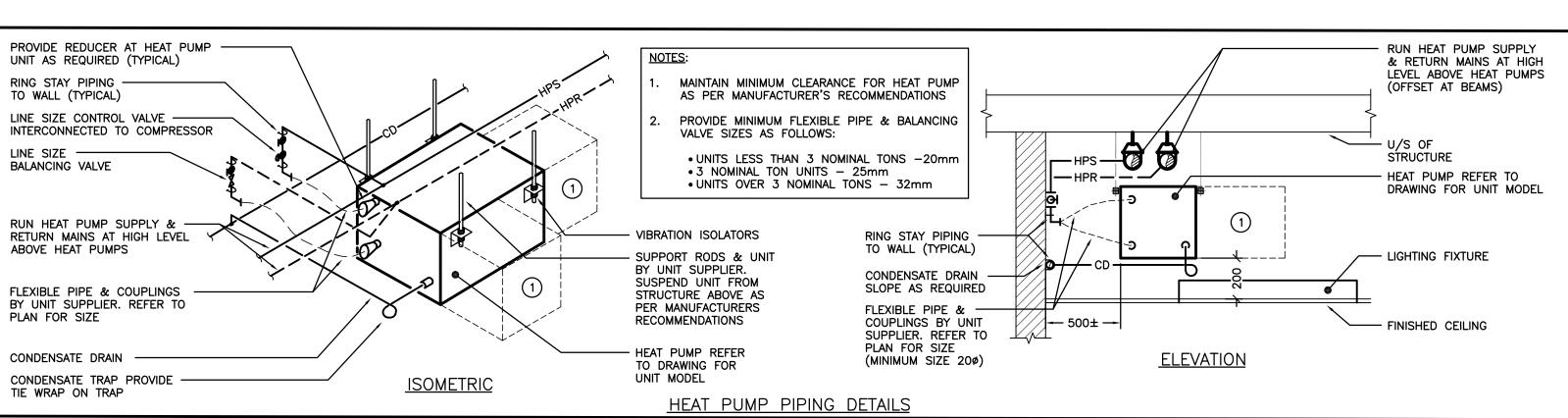


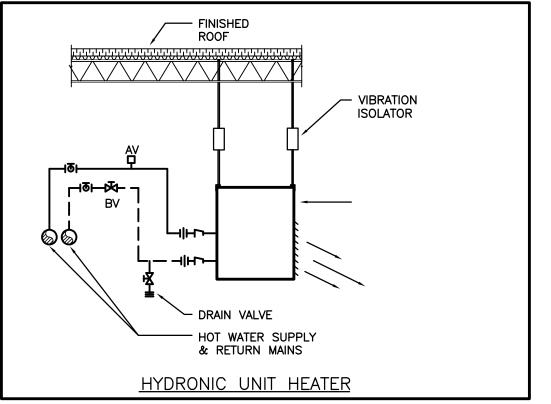


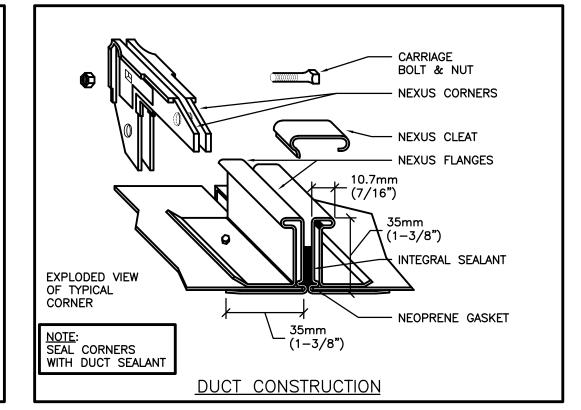


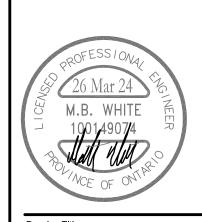












onsent of the consum.

on the scale this drawing.

2024 DEI Consulting Engineers

HALTON

HOLY FAMILY SCHOOL

Architects

Snyder Architects Inc.

100 Broadview Ave., Suite 301

T. 416.966.5444

www.snyderarchitects.ca

Consultants

Consulting Engineers MECHANICAL | ELECTRICAL | AQUATIC

Issued for Coordination

Issued for Coordination

Issued for Bids & Building

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 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.

2024-03-08

2024-03-11

2024-03-26

Toronto, ON M4M 3H3

DETAILS

MECHANICAL Scale: AS NOTED hecked by: MW