<u>P</u>	<u>ACKAGED</u>	UNIT VENTIL	ATOR SO	<u>CHEDUL</u>	<u>LE</u>									CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.	<u> </u>
Item	Туре	tons cfm (cfm)	SP in. Size wc hp Me	edium Coil Rows	Heatir EWT *F	ng LWT Capac *F MBH		Voltage	Electrical MCA		Manufacturer	Model	Remarks		
UV-3	VERTICAL UNIT VENTILATOR	- 1000 4 50	0.25 1/2 W	/ATER 2	150	130 49	4.8	120/1/60	7.2	15	SYSTEM AIR	FRESHMAN HN	C/W ENERGY RECOVERY WHEEL W/POWER EXHAUST, ECM MOTORS, 2 ROW HEATING COIL & HEAVY DUTY LATTICE GRILLE.		

DX	SPLIT SYSTEM	<u>/ A</u>	.C (<u>OUTDO</u>	<u>or l</u>	JNIT_	SCHED	<u>ULE</u>						CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
				ng Capacity	Sound	Refr	igerant	Connected	E	ectrical				
ltem	Туре	Nom. Tons	Gross MBH	EER	Pressure/ Power DBA	Туре	System Max Charge Ibs	Capacity Ratio	Voltage	MCA	Fuse	RLA	Manufacturer & Model	Remarks
CU-1	DX SPLIT HEAT PUMP (MACHINE ROOM)	1.0	12	12.5	49	R-410A	5	100%	208/1/60	12.2	15	7.5	DAIKIN RK12NMVJU	LOW AMBIENT COOLING KIT, THIS EQUIPMENT WILL OPERATE IN COOLING ONLY. POWER REQUIREMENTS FOR CU-1 & FC-1 COMBINED.

DX	SPLIT SYSTE	M AC I	ND)OOF	7 UN	NIT SC	HEDUL	<u>_</u> E	CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS ACCESSORIES AND ADDITIONAL INFORMATION
Nominal Capacity	Туре	Configuration		Pacity	Cooling Capacity MBH	Elect Voltage	rical POWER	Manufacturer (or Approved Alternate)	Remarks
FC-1	WALL HUNG, COOLING, INTEGRAL FILTER FC-1	WALL HUNG	1.0	_	12.0	208/1/60	FHP	DAIKIN FTK12NMVJU	SUB-FED FROM CU-1. REFER TO CU-1 FOR COMBINED POWER REQUIREMENTS. IR CONTROLLER INCLUDED, OPERATE IN COOLING ONLY. PROVIDE C/W BACNET COMPATIBLE CONTROLLER.

<u>SUM</u>	P PUMP SCHEE	DULE						CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Туре	Capacity USgpm	Head ft	Size hp	Electrical Voltage	Speed rpm	Manufacturer & Model	Remarks
SP-1	SUMP PUMP (ELEVATOR)	50	27	0.5	208/3/60	_	MYERS WHR5H-53	C/W CONTROL PANEL, FLOATS, 8'-0" (2400mm) DEEP, 30"ø (750mm) FIBERGLASS SUMP, REFER TO SPECIFICATION. SUMP SHOULD HAVE AN AIR-TIGHT, VAPOUR-TIGHT CHECKER-PLATE LID THAT IS FLAT, FLUSH WITH FLOOR, AND RATED FOR FOOT TRAFFIC. PUMP C/W OIL SENSING TECHNOLOGY, BACNET COMPATIBLE WALL MOUNT CONTROL PANEL.

FAN	SCHEDULE							CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Туре	Capacity cfm	ESP in wc	Fan Speed rpm	hp	Motor Voltage	Acceptable Manufacturer	Description
EF-8	CEILING EXHAUST FAN	100	0.5	710	Fhp	120/1/60	BROAN L150E	ACOUSTICALLY INSULATED STEEL HOUSING, CENTIFUGAL BLOWER WHEEL, 90° DISCHARGE OUTLET W/BACKDRAFT DAMPER, C/W WHITE PAINTED ENAMEL STEEL GRILLE, VIBRATION ISOLATORS. 2 SONES, SPEED CONTROLLER, METAL EXHAUST GRILLE.
EF-9	ROOF MOUNTED EXHAUST FAN	250	0.5	1140	1/6	120/1/60	GREENHECK G-98-B	SPUN ALUMINUM MOTOR COVER & FAN SHROUD, DOWN DISCHARGE, W/DIRECT DRIVE CENTRIFUGAL BACKWARD INCLINED FAN, GALV BIRD SCREEN, 24" HIGH INSULATED ROOF CURB. INTERLOCK TO LIGHTS FOR OPERATION.

1. ACCEPTABLE MANUFACTURERS: GREENHECK, PENN-BARRY, COOK, CARNES, ACME, TWIN CITY, JENCO, BUFFALO. (CEILING FANS: BROAN, GREENHECK, ZONEX) 2. PROVIDE 24" TALL PREFABRICATED, INSULATED ROOF CURB FOR ALL ROOF MOUNTED FANS.

<u>GRIL</u>	LE SCHEDULE				CAPACITY INDICATED ON SCHEDULE REFER SPECIFICATION FOR CONSTRUCTION STANDARD ACCESSORIES AND ADDITIONAL INFORMATION
Item	Туре	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
D1	SQUARE CEILING DIFFUSER	YES	NONE	EH PRICE SCDA	MULTICONE, FULLY ADJUSTABLE, 24x24, STEEL CEILING DIFFUSER W/ROUND NECK. SUITABLE FOR LAY—IN T—BAR CEILING, OR DRYWALL CEILING WHEN C/W FRAME. PROVIDE FIRE STOP FLAP & FIRE BLANKET.
S1	SUPPLY GRILLE	NO	NONE	EH PRICE 22-FLA	DOUBLE DEFLECTION, 3/4" 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 EGGCRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.
R2	SIDEWALL RETURN GRILLE	NO	NONE	EH PRICE 60-FLA	FIXED BLADE AT 45°, 3/4" SPACING, ALUMINUM AIRFOIL BLADES PARALLEL TO LONG DIMENSION, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
E1	EXHAUST GRILLE (DUCTED)	NO	NONE	EH PRICE 80-FA	1/2x1/2x1/2 ALUMINUM EGGCRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.

GENERAL DIFFUSER/GRILLE NOTES: 1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, CARNES, METALAIRE, TUTTLE & BAILEY 2. GRILLE COLOURS ARE SELECTED BY ARCHITECT FROM STANDARD COLOUR CHART, UNLESS OTHERWISE NOTED. 3. PAINT INTERIOR OF DUCTWORK BEHIND GRILLE MATT BLACK (WHERE VISIBLE THRU GRILLE).

HYD	PRONIC HEATING	COMPONENT S	CHEDULE
ltem	Туре	Acceptable Manufacturer	Description
H1	CABINET FORCE FLOW HEATER (RECESSED)	ENG-A CUH SERIES	16ga STEEL CABINET WITH ROUNDED CORNERS, REMOVABLE PANELS. AND ALUMINUM FIN COIL, 3—SPEED DIRECT DRIVE DOUBLE WIDTH CENTRIFUGAL FANS, AND WASHABLE FILTER. DUCTED TOP INLET. STAMPED GRILLES ON LOWER FRONT OUTLET. SEMI RECESSED IN WALL WITH TRIM COLLAR.
H2	RADIATION	ENG-A WF-1A	WALL HUNG, 16ga STEEL CABINET WITH ALL MOUNTING HARDWARE, CORNERS, LAP PIECES, END CAPS ETC. ELEMENT TO BE 4x4 ALUMINUM FINS ON 1 1/40 COPPER TUBE WITH 50 FINS/FT. PROVIDE STAMPED GRILLE ON SLOPED TOP, OPEN BOTTOM, 24" HIGH CABINET WITH 1 ELEM ROW.
Н3	RADIATION (CABINET ONLY)	ENG-A WF-1A (CABINET ONLY)	WALL HUNG, 16ga STEEL CABINET WITH ALL MOUNTING HARDWARE, CORNERS, LAP PIECES, END CAPS ETC. PROVIDE STAMPED GRILLE ON SLOPED TOP, OPEN BOTTOM, 24" HIGH CABINET. PROVIDE CABINET ONLY, EXISTING ELEMENTS TO REMAIN.

GENERAL HEATING COMPONENT NOTES:

1. ACCEPTABLE MANUFACTURERS: ENGINEERED AIR, SIGMA, RITTLING, SLANT—FIN, ROSEMEX, DUNHAM—BUSH

2. TEMPERATURE RATINGS: EWT—150°F, LWT—130°F, EAT—68°F

3. SIZES & HEAT CAPACITIES ARE NOTED ON THE FLOOR PLANS

4. RAD, CONVECTOR, & CABINET HEATER CABINET FINISHES ARE TO BE FACTORY PRIME COATED SELECTED FROM STANDARD MANUFACTURER'S COLOURS UNLESS OTHERWISE NOTED.

ltem	Description	ltem	Description
	ITEM TO BE REMOVED	——	GATE VALVE
	CUT EXISTING & CONNECT NEW PIPING	≰ G	RISER VALVE
-	FLOW DIRECTION	BV BV	BALANCING VALVE
	POTABLE COLD WATER	oco	FLOOR CLEANOUT
	POTABLE HOT WATER	СФ	THERMOSTAT (WITH OR WITHOUT GUARD)
	POTABLE HOT WATER RECIRC.		SUPPLY AIR DUCT
SAN-EX	EXISTING SAN ABOVE FLOOR		RETURN/EXHAUST AIR DUCT
SAN-EX	EXISTING SAN BELOW FLOOR		ACOUSTIC DUCT LINING
— — SAN — —	SANITARY ABOVE FLOOR		THERMAL INSULATION
——SAN——	SANITARY BELOW FLOOR		TRUNK MAIN BRANCH COLLAR C/W BALANCING DAMPER
CD	CONDENSATE DRAIN		BRANCH LINE SPIN-IN COLLAR C/W BALANCING DAMPER
——HWS——	HEATING WATER SUPPLY	— BD	BALANCING DAMPER
— —нwr— —	HEATING WATER RETURN	~~~ M	MOTORIZED DAMPER
G	NATURAL GAS	— FD	FIRE DAMPER
SP	SPRINKLER	-\\\\ - FSD	FIRE SMOKE DAMPER
FD %	FLOOR DRAIN		FLEXIBLE ROUND DUCT
- 79-P-	TRAP PRIMER		RIGID ROUND DUCT
	TEE CONNECTION	Type Size Cap.	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
G —	PIPE DOWN	AD	ACCESS DOOR
•—	PIPE UP		PLUG VALVE
	SCREWED OR WELDED PIPE CAP	<u>——і</u> бі——	BALL VALVE
♦ ^{AV}	AIR VENT	——п—	BUTTERFLY VALVE
© BWV	BACKWATER VALVE	Type Size / cfm Capacity	HYDRONIC HEATING SIZE, TYPE & CAPACITY
©	CO2 SENSOR	EXP	EXPANSION JOINT
		RIC	RETURN IN CABINET

MECHANICAL LEGEND

GENERAL NOTES

- A. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED
- B. SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL ALE TIXTORES FOR A COMPLETE STSTEM TO ALL LOCAL FLOMBING 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. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- C. CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS
- D. UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONSTRUCTED LETTERS ARE ISSUED BY THE CONSULTANT: POTABLE WATER TEST (SEE SPEC)
- NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE - NFPA-14 STANDPIPE CONTRACTOR'S MATERIAL & TEST CERTIFICATE - FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.
- E. THIS PROJECT IS PHASED AND SCHEDULED TO BE COMPLETED DURING CONSECUTIVE SUMMER BREAKS (JULY AND AUGUST OF 2024 AND 2025). WORK MUST BE COMPLETED SO THAT THE BUILDING OCCUPANCY IS GRANTED AT THE END OF EACH SUMMER BREAK. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL DETAILS OF PHASING OF WORK. FIRE SUPPRESSION SYSTEM WILL ALSO REQUIRE WORK IN BOTH SUMMERS. ADDITIONAL FEES WILL NOT BE PERMITTED FOR ADDITIONAL WORK RESULTING FROM A FAILURE TO COORDINATE PROJECT PHASING WITH ARCHITECTURAL REQUIREMENTS AND WITH GENERAL CONTRACTOR.

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.

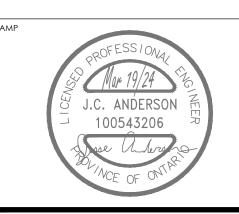
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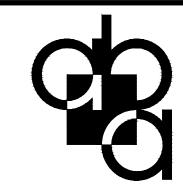




ISSUED FOR BID	2024.03.19
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ISSUED FOR 75% REVIEW	2024.01.19
ISSUED FOR 50% REVIEW	2023.12.22
CHRONOLOGY	DATE



Website: deiassociates.ca Project Number: 23176



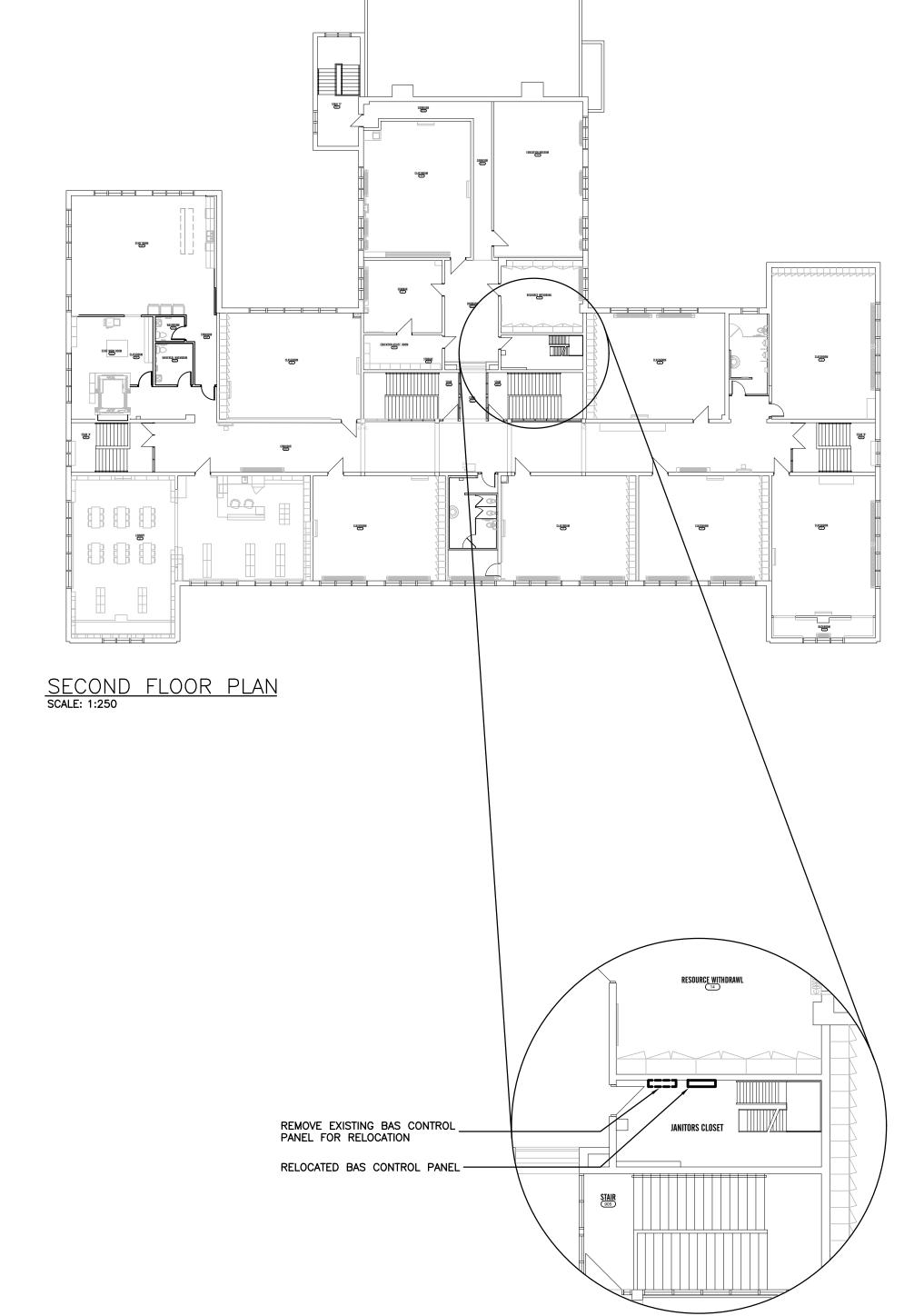
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SUDDABY PUBLIC SCHOOL 171 FREDERICK STREET, KITCHENER, ONTARIO

LEGEND AND SCHEDULES

AS NOTED 24x36 2022-071



SECOND FLOOR JANITORS CLOSET PART PLAN (CONTROLS)
SCALE: 1:100

<u>PLU</u>	MBING FIXTU	RE	SCH	EDU	<u>LE</u>						
	T	T	Connect	ion Size	 :S		Fixture		Trim		Accessories
Item	Туре	HW	CW TW	Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	WATER CLOSET FLUSH VALVE, HAND 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 81T201-WMSHW SLOAN 111-ES-S	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25mm (1") SCREWDRIVER 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 ESCUTCHEINS. HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	BEMIS 2155CT	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		AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRIATIC 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 81T201-WMSHW SLOAN 111-ES-S	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER 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 ESCUTCHEINS. 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 AM820STS	SEAT: WHITE, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
L-1	WALL MOUNTED LAV ELECTRONIC FAUCET	1/2 1	1/2	1 1/4	1 1/4	AMERICAN STANDARD LUCERNE 355.012	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON	DELTA 591T0220	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING		WASTE FITTING: OPEN GRID STRAINER.
	ELECTRONIC FAUCET					KOHLER BRENHAM K-1997	100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").	CA8301—AC	RANGE 76mm TO 381mm (3" TO 15") AND TIME OUT 15 TO 75 SECONDS		PROVIDE FLOOR MOUNTED WALL CARRIER
						ZURN Z5344			CHROME FINISH. VANDAL RÈSISTANT AÉRATOR 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.		THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
L-2	B.F. WALL MOUNTED LAV ELECTRONIC FAUCET	1/2 1	1/2	1 1/4		AMERICAN STANDARD LUCERNE 355.012 KOHLER BRENHAM K-1997 ZURN Z5344	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 557 MM X 502 MM (21 15/16" X 19 3/4").	DELTA 591T0220 MOEN COMMERCIAL CA8301-AC	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: MCGUIRE PROWRAP PWV8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MIXLF, POWERS LM490 OR EQUAL.
DS-1	STAINLESS STEEL DOUBLE SINK	1/2 1	1/2	1 1/2	1 1/4	KINDRED LBD6408-1/3 NOVANNI 2007I	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 (31½" X 20 3/4" X 8").	DELTA 100 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 I/min (2.2 gpm) AT 413 kPa (60 psi).		WASTE FITTING: INTEGRAL STAINLESS STEEL BASKET STRAINER/STOPPER, TAILPIECE, CAST BRASS P-TRAP WITH CLEANOUT.
FD-1	FLOOR DRAIN			NOTED		ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR C/W MEMBRANE CLAMP. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				
FD-2	ELEVATOR SUMP DRAIN			NOTED	,	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				
HD-1	HUB DRAIN			NOTED		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.				

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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.

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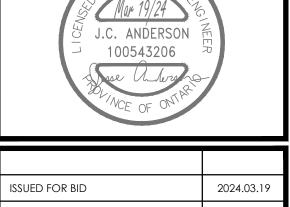
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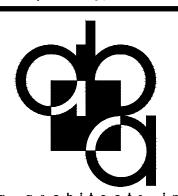




ISSUED FOR BID	2024.03.19
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ISSUED FOR 75% REVIEW	2024.01.19
ISSUED FOR 50% REVIEW	2023.12.22
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55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23176



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PROJECT NAME

SUDDABY
PUBLIC SCHOOL
171 FREDERICK STREET, KITCHENER, ONTARIO

DRAWING TITLE

PLUMBING SCHEDULES

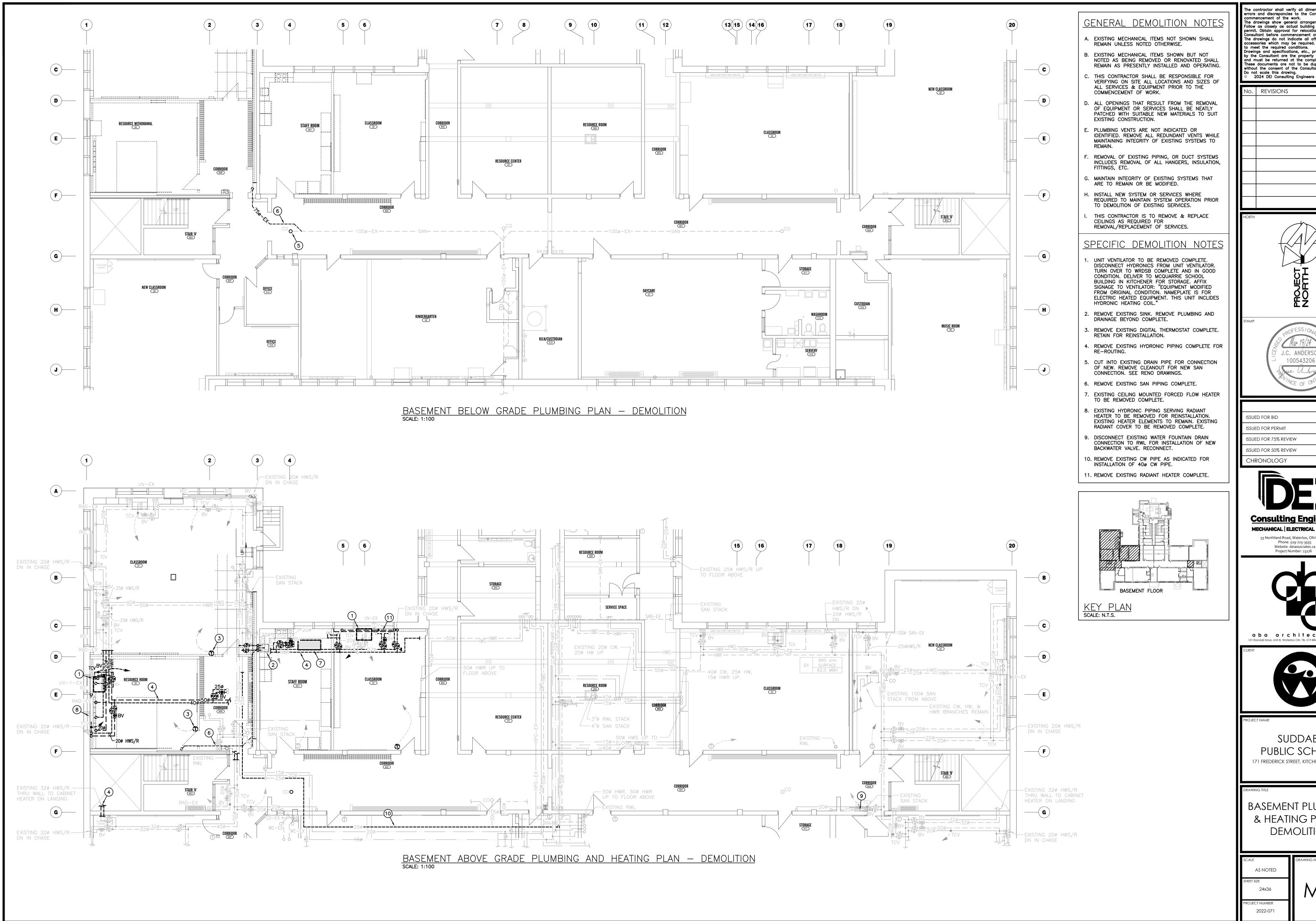
AS NOTED

ET SIZE

24x36

DRAWING NUMBER

24x36 OJECT NUMBER 2022-071



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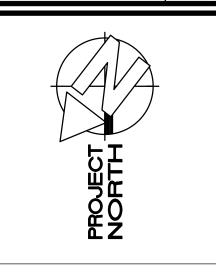
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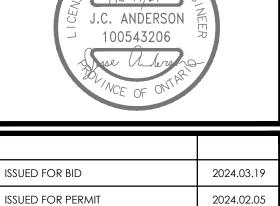
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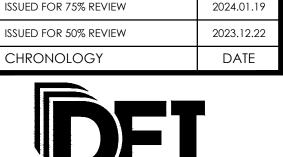
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No.	revisions	DATE











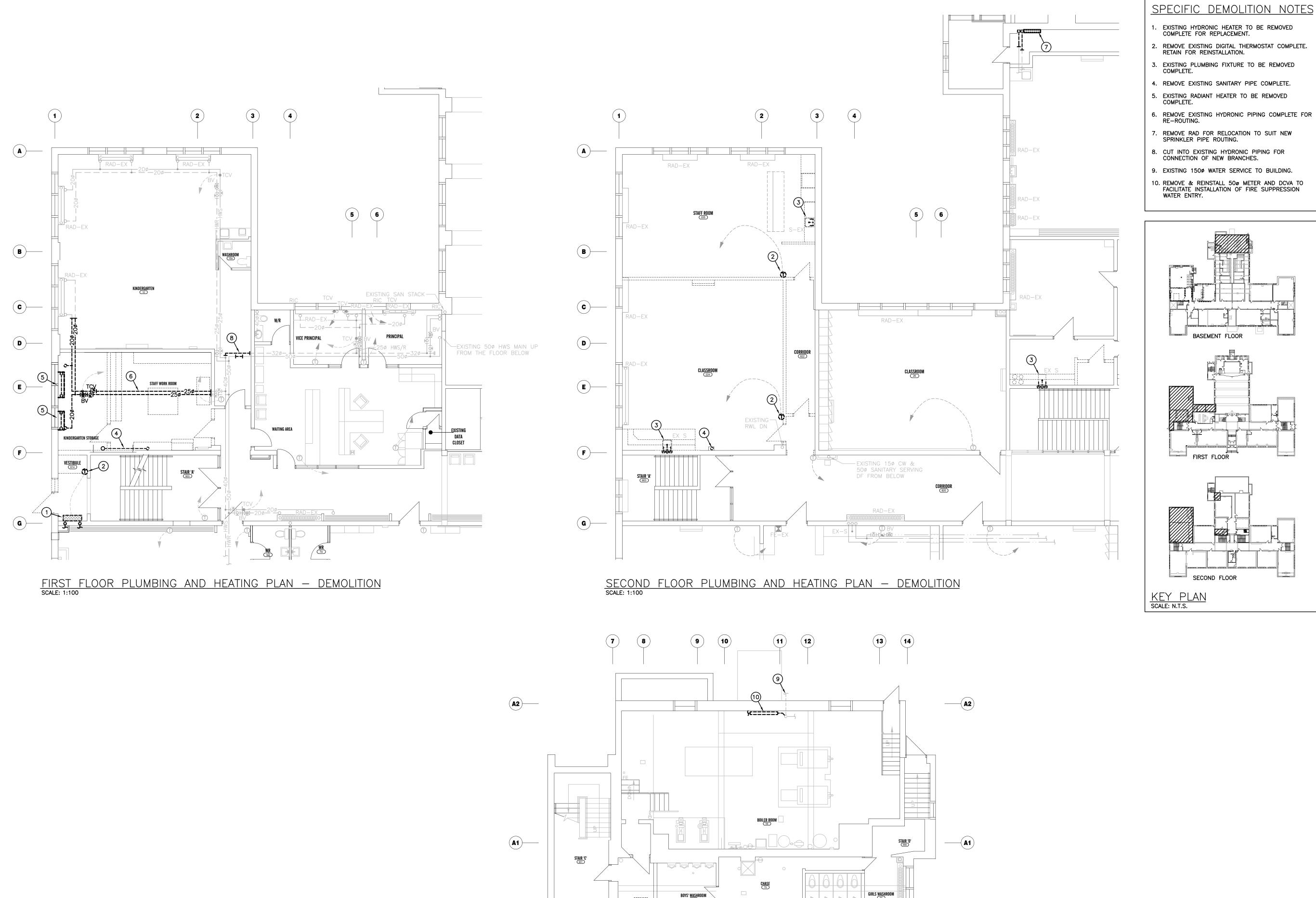
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SUDDABY PUBLIC SCHOOL 171 FREDERICK STREET, KITCHENER, ONTARIO

BASEMENT PLUMBING & HEATING PLANS -**DEMOLITION**

AS NOTED 24x36



BASEMENT BOILER ROOM PART PLAN — DEMOLITION SCALE: 1:100

SPECIFIC DEMOLITION NOTES

. EXISTING HYDRONIC HEATER TO BE REMOVED COMPLETE FOR REPLACEMENT.

REMOVE EXISTING DIGITAL THERMOSTAT COMPLETE. RETAIN FOR REINSTALLATION.

3. EXISTING PLUMBING FIXTURE TO BE REMOVED

4. REMOVE EXISTING SANITARY PIPE COMPLETE.

5. EXISTING RADIANT HEATER TO BE REMOVED

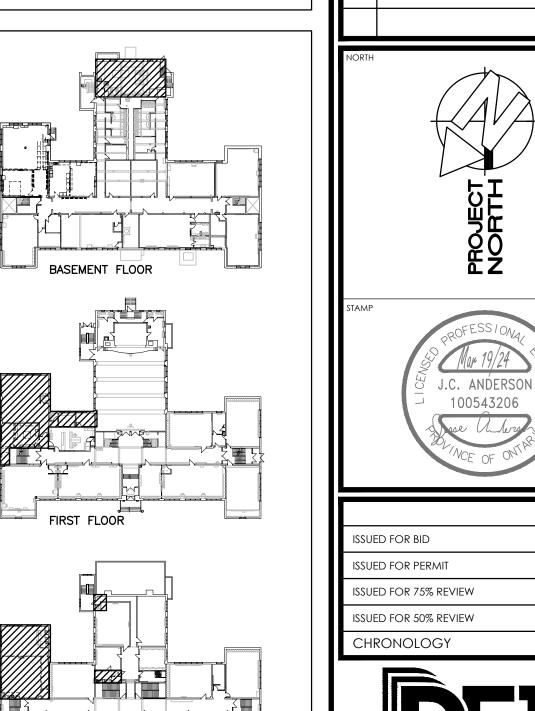
RE-ROUTING.

7. REMOVE RAD FOR RELOCATION TO SUIT NEW SPRINKLER PIPE ROUTING.

8. CUT INTO EXISTING HYDRONIC PIPING FOR CONNECTION OF NEW BRANCHES.

9. EXISTING 1500 WATER SERVICE TO BUILDING.

10. REMOVE & REINSTALL 50ø METER AND DCVA TO FACILITATE INSTALLATION OF FIRE SUPPRESSION WATER ENTRY.



100543206 2024.03.19 2024.02.05 ISSUED FOR 75% REVIEW 2024.01.19

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2023.12.22



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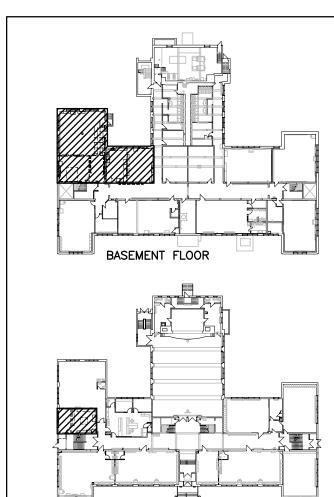
FIRST & SECOND FLOOR PLUMBING AND HEATING PLAN -DEMOLITION

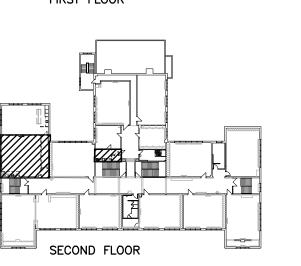
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SPECIFIC DEMOLITION NOTES

- REMOVE EXISTING UNIT VENTILATOR BEYOND COMPLETE. DELIVER TO MCQUARRIE SCHOOL. TURN OVER TO WRDSB.
- 2. REMOVE EXISTING DIFFUSER AND CUT BACK ASSOCIATED DUCT TO BALANCING DAMPER.
- 3. REMOVE EXISTING DIGITAL THERMOSTAT COMPLETE. RETAIN FOR REINSTALLATION.
- 4. REMOVE EXISTING TRANSFER AIR DUCT SLEEVE AND FIRE SMOKE DAMPER. KEEP OPENING.
- 5. REMOVE EXISTING LOUVER / WALL PENETRATION COMPLETE.
- 6. REMOVE EXISTING EXHAUST FAN / RANGE HOOD COMPLETE.
- REMOVE EXISTING HYDRONIC HEATING COIL FOR
- REPLACEMENT WITH LARGER
- 8. REMOVE EXISTING DIFFUSER AND CUT BACK EXISTING DUCTWORK AS SHOWN.
- 9. DISCONNECT EXISTING DDC THERMOSTAT. REMOVE FOR REPLACEMENT WITH NEW IN SAME SPACE. 10. REMOVE COMPLETE DDC THERMOSTAT.
- 11. REMOVE EXISTING HVAC EQUIPMENT AS INDICATED TO PERMIT SANITARY INSTALLATION. REINSTALL EQUIPMENT AS INDICATED ON RENOVATION PLAN.
- 12. PROVIDE INSULATED BLANK OFF PANEL FOR EXISTING LOUVRE.
- 13. REMOVE EXISTING HEATER COMPLETE.
- 14. REMOVE EXISTING TRANSFER FAN FOR RELOCATION.





KEY PLAN SCALE: N.T.S.

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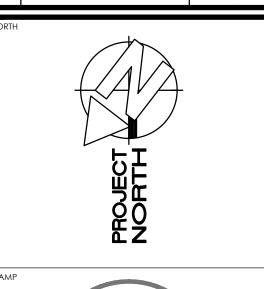
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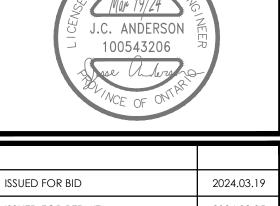
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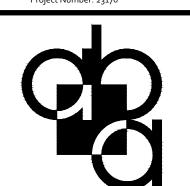




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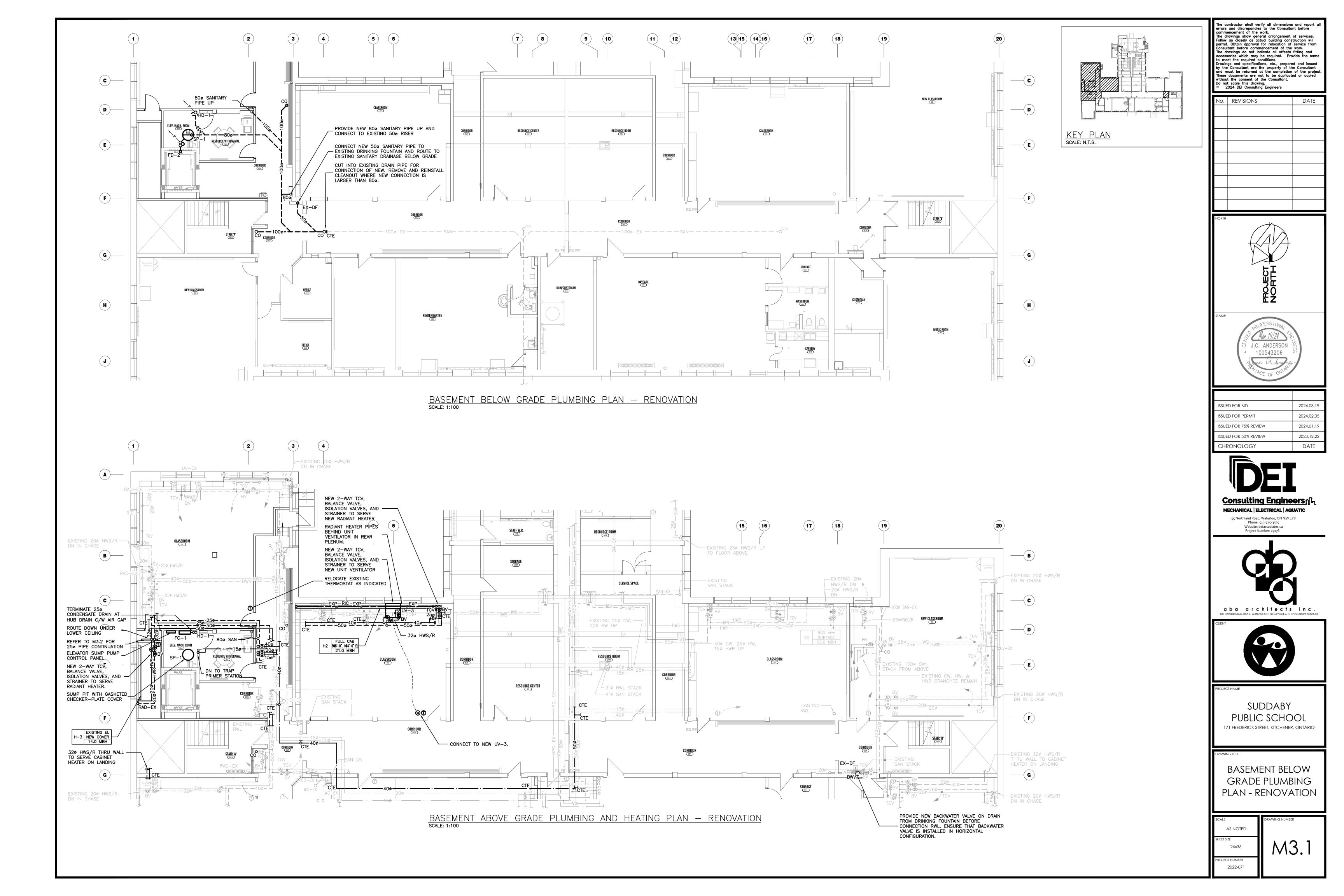
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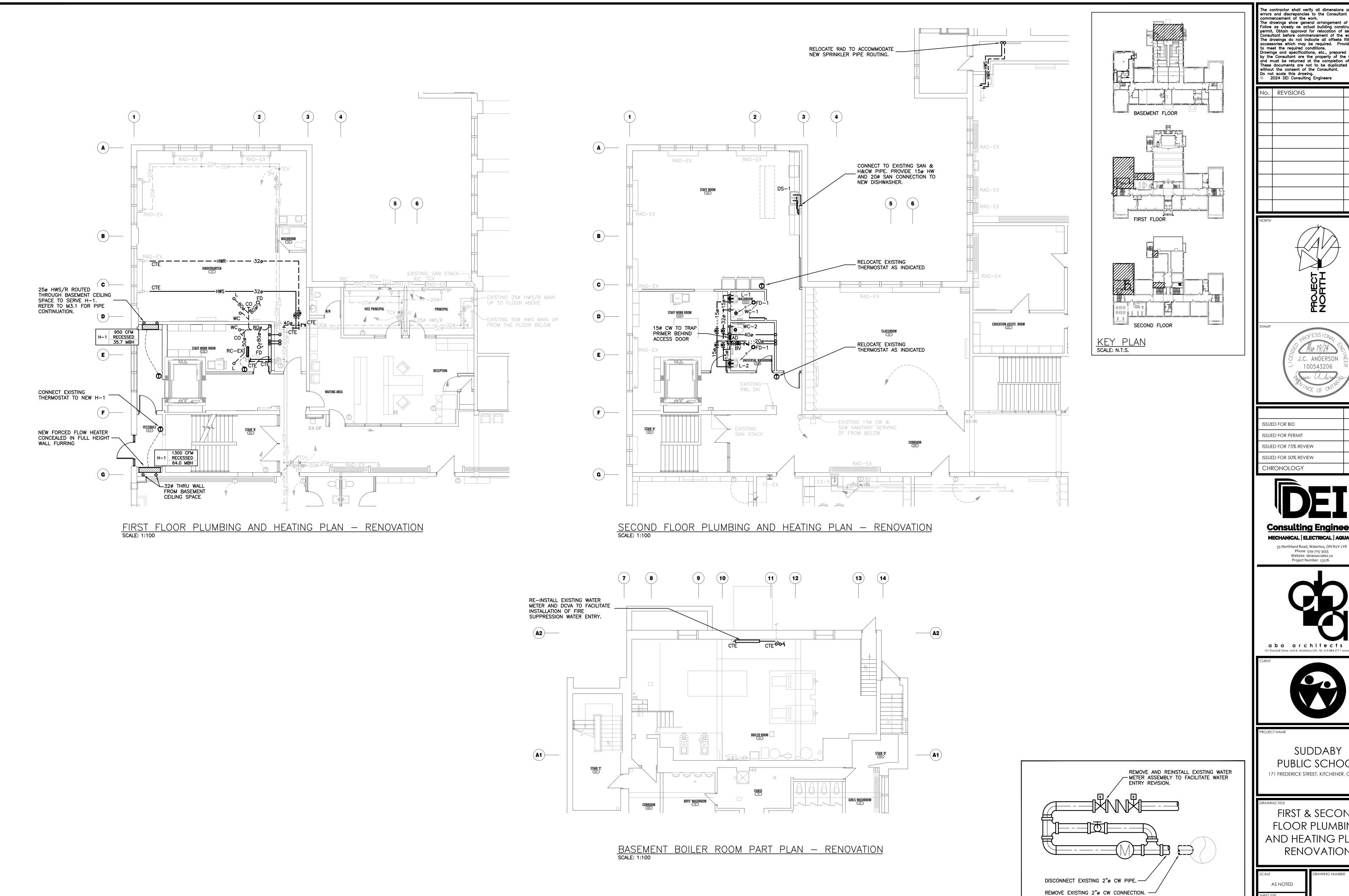


SUDDABY PUBLIC SCHOOL 171 FREDERICK STREET, KITCHENER, ONTARIO

BASEMENT, FIRST, & SECOND FLOOR HVAC PLAN - DEMOLITION

AS NOTED 24x36 2022-071





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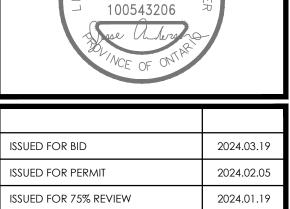
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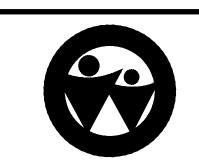
DATE

J.C. ANDERSON



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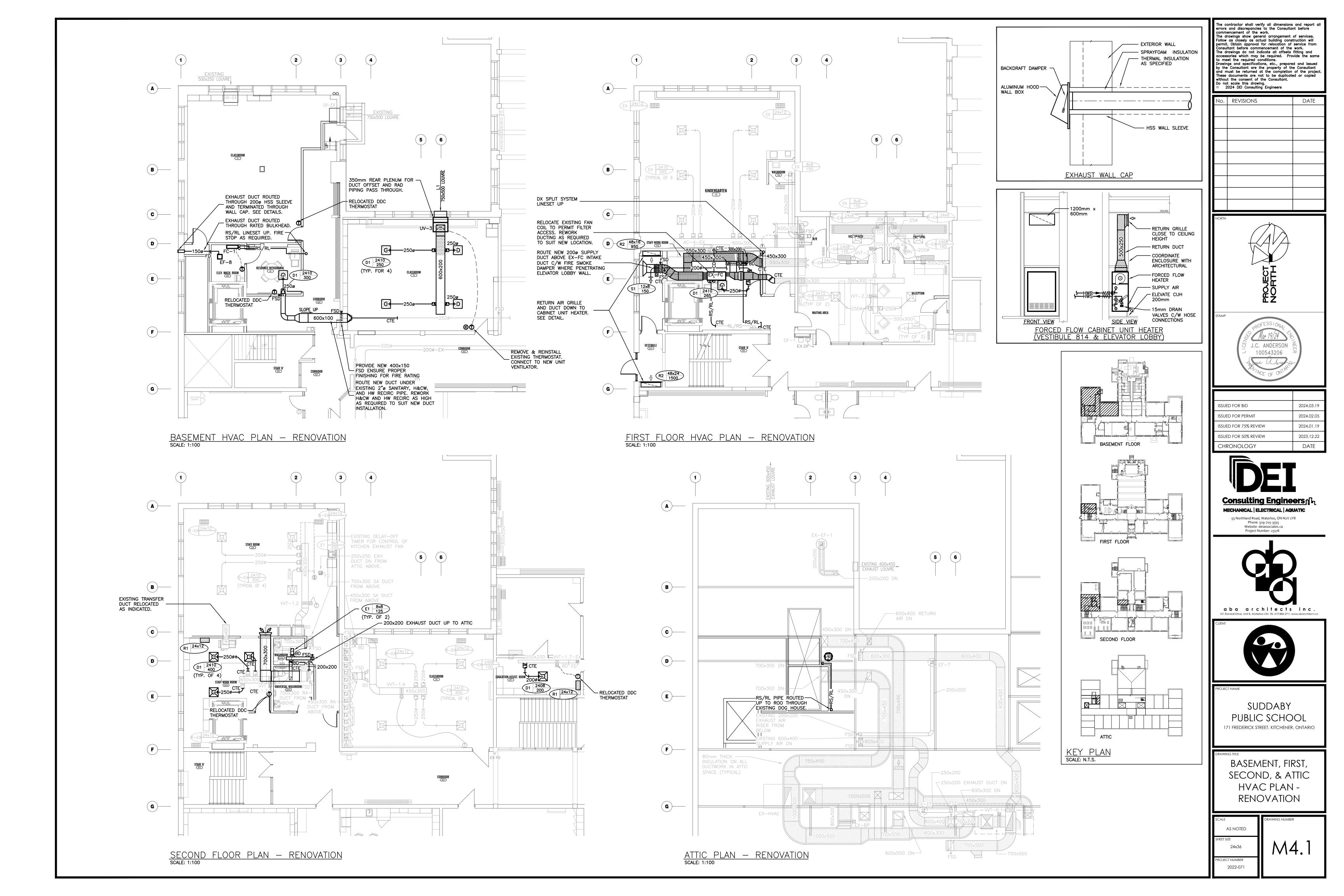


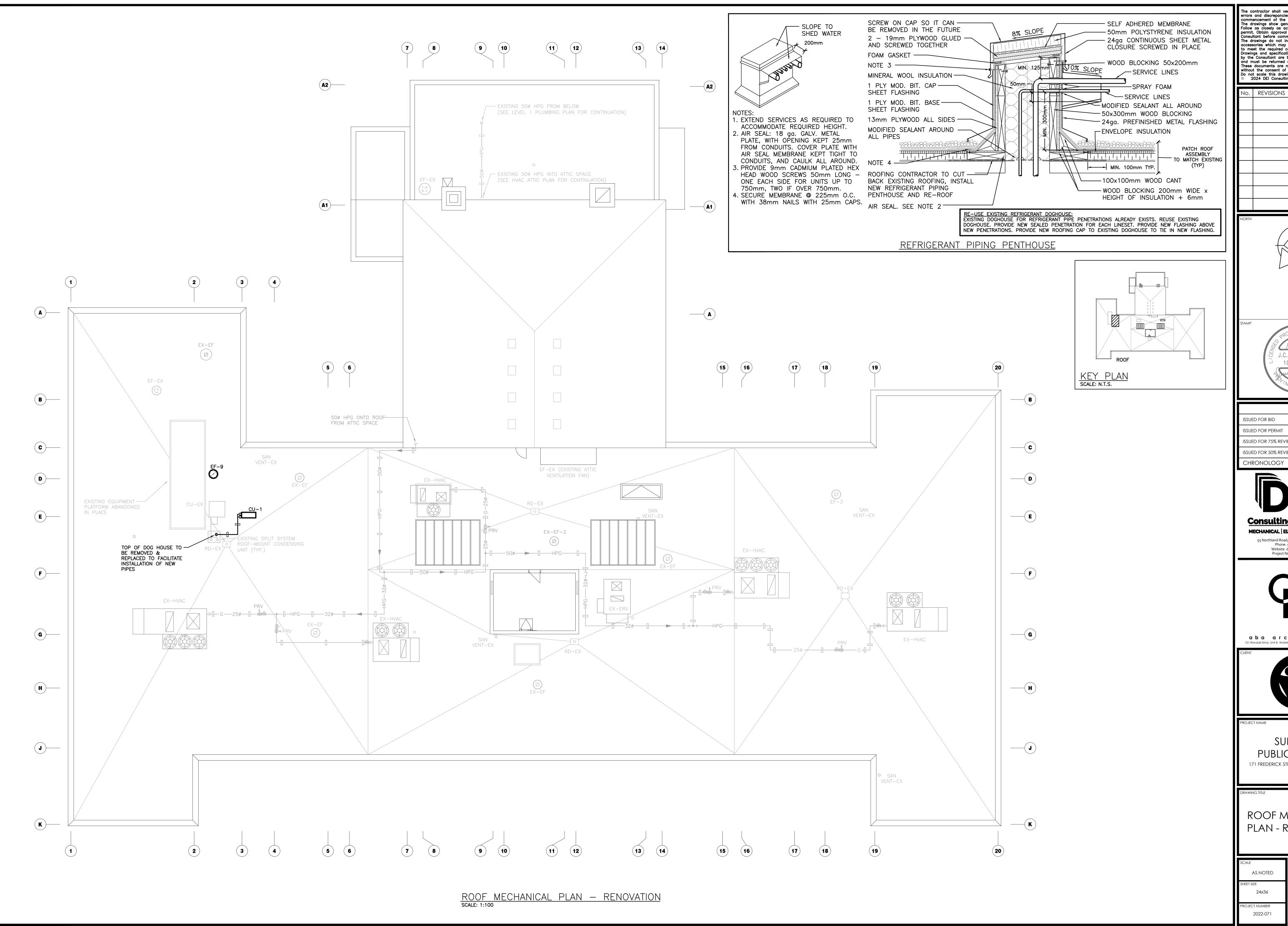
SUDDABY PUBLIC SCHOOL 171 FREDERICK STREET, KITCHENER, ONTARIO

FIRST & SECOND FLOOR PLUMBING AND HEATING PLAN -RENOVATION

AS NOTED 24x36 2022-071

EXISTING WATER ENTRY DEMO/RENO DETAIL





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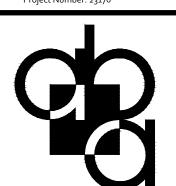


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ROOF MECHANICAL PLAN - RENOVATION

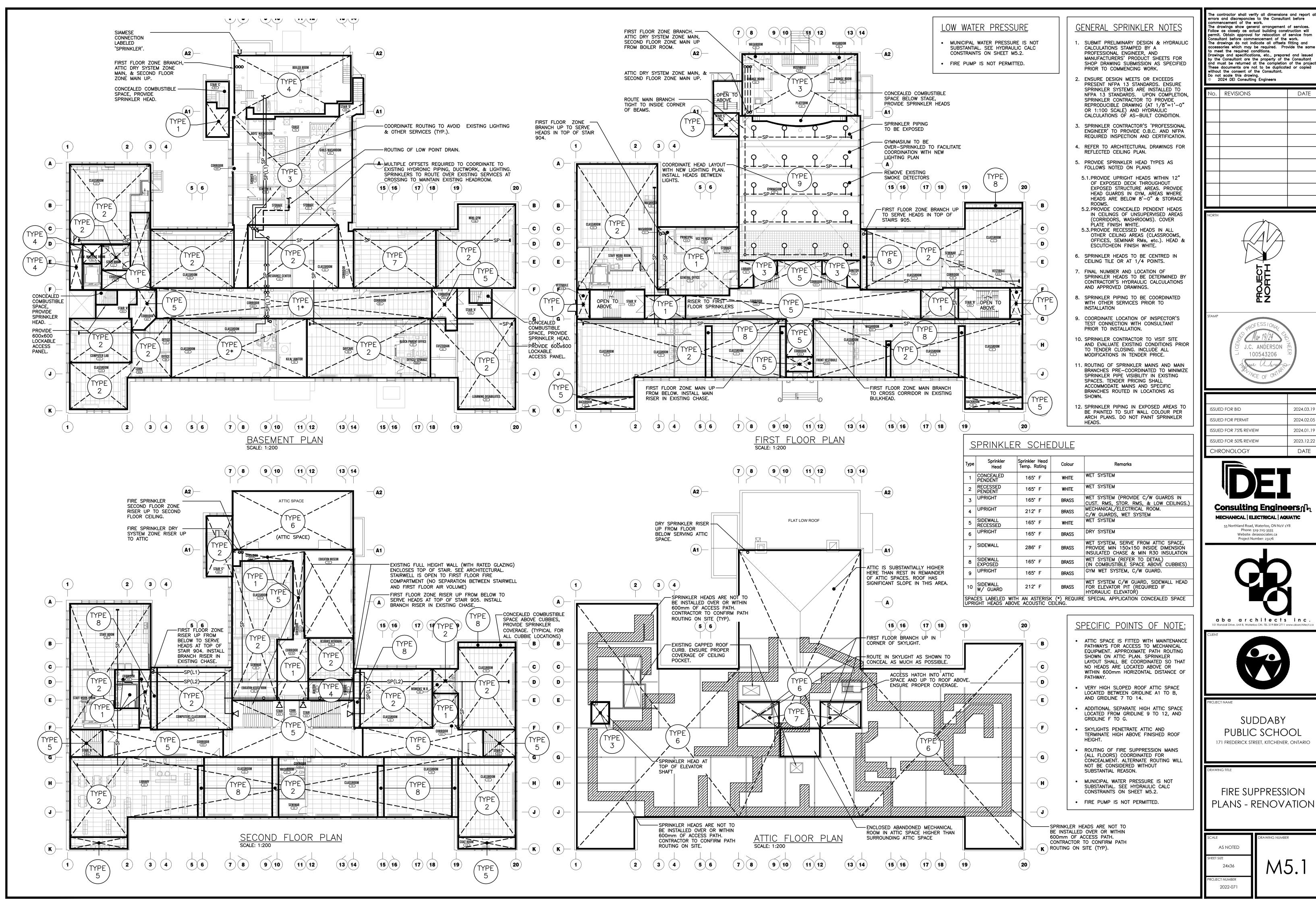
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AS NOTED

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PROJECT NUMBER



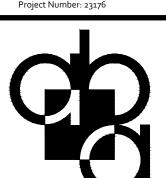
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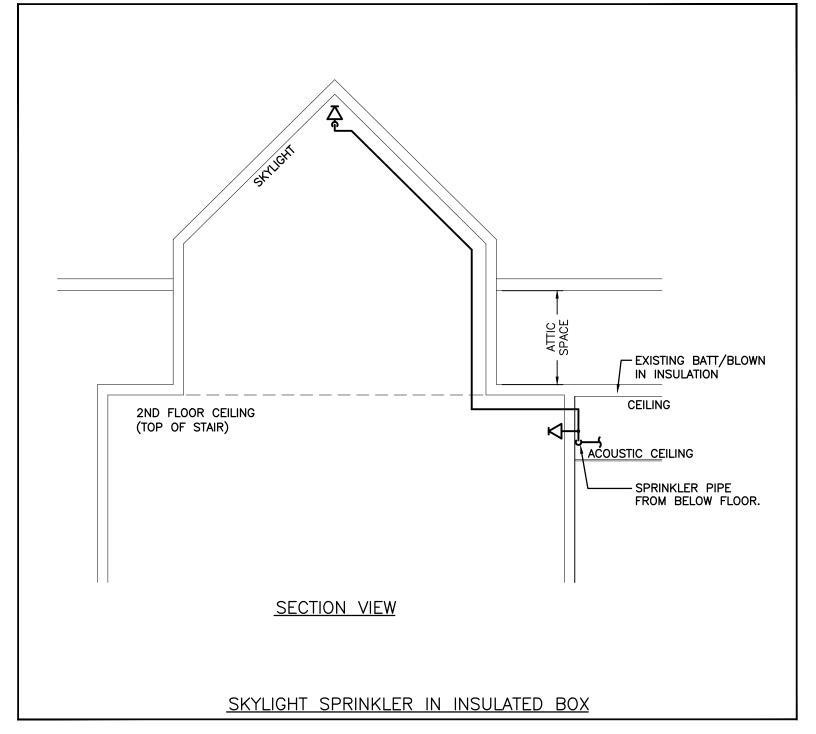
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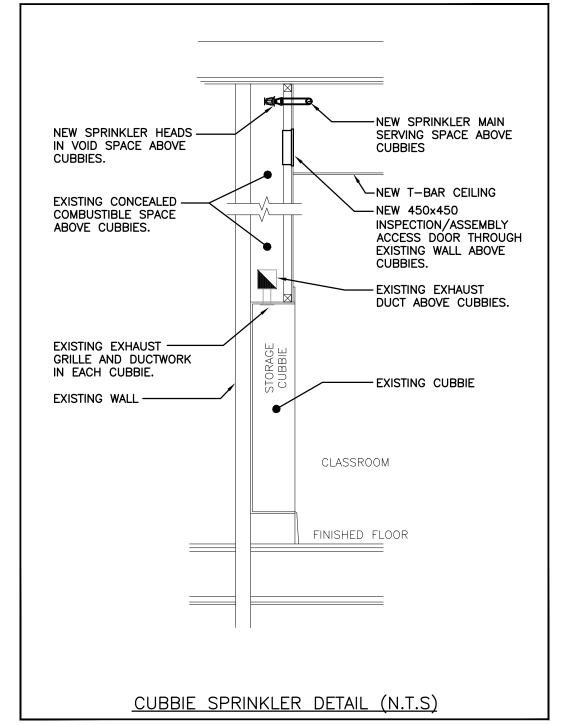


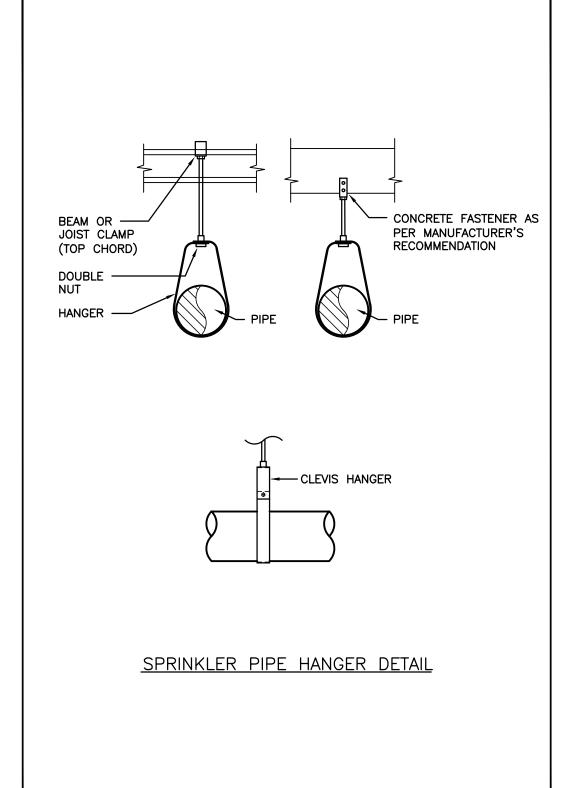
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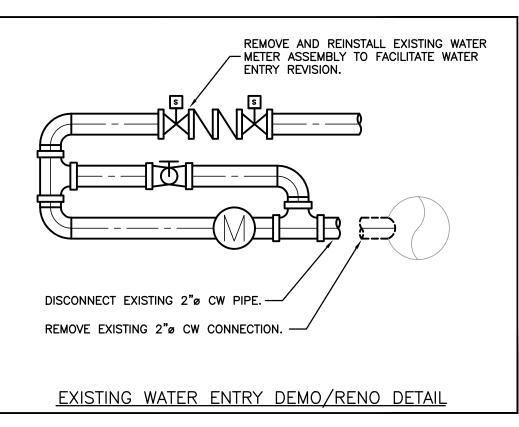
PLANS - RENOVATION

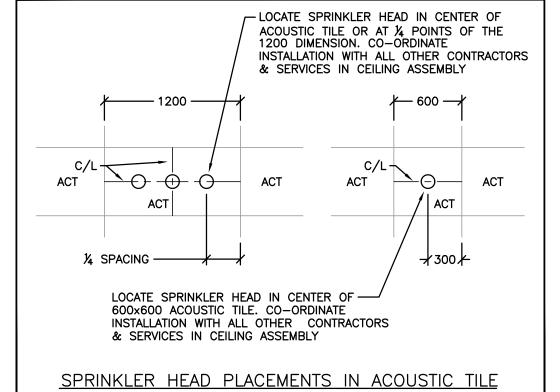
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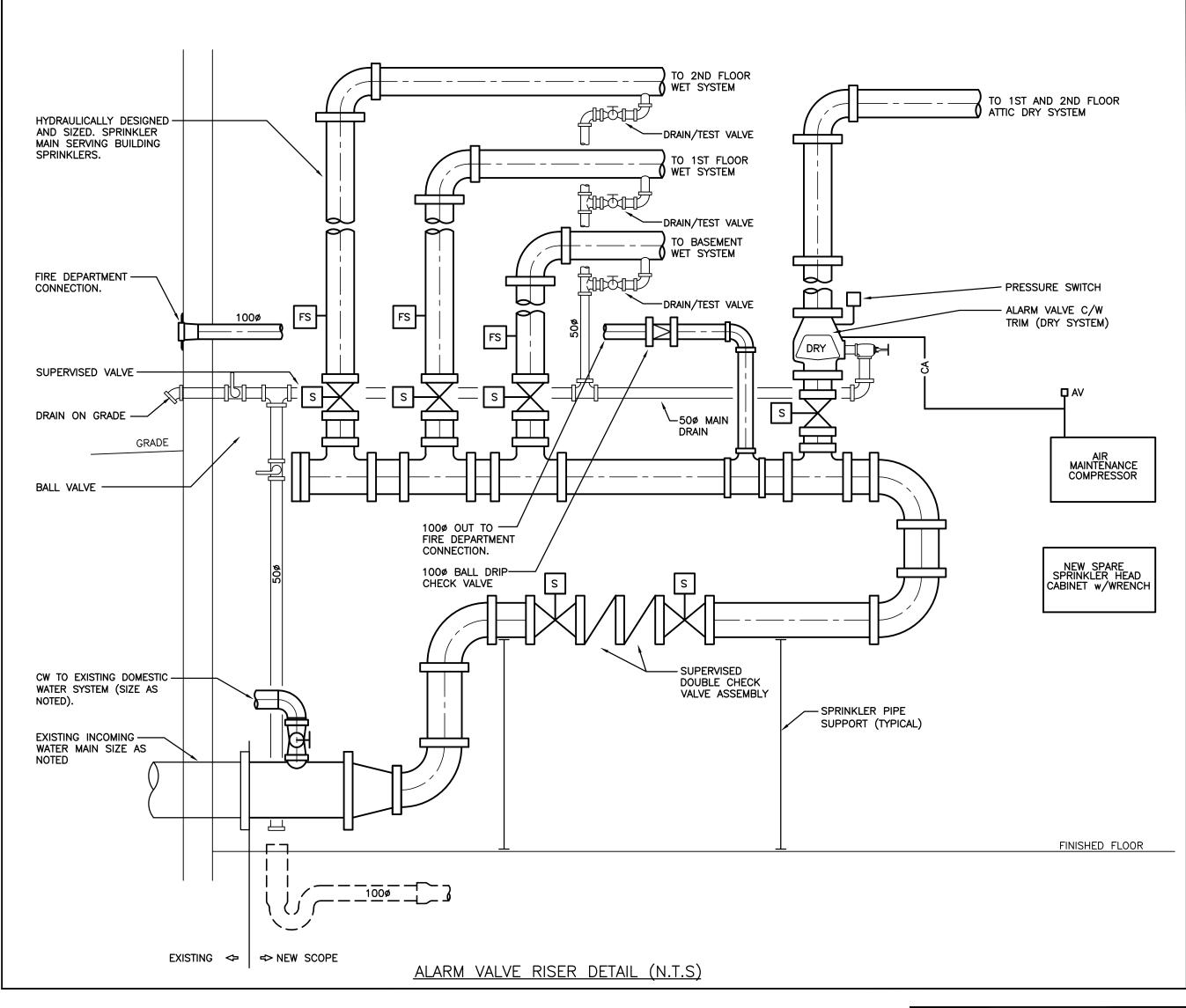


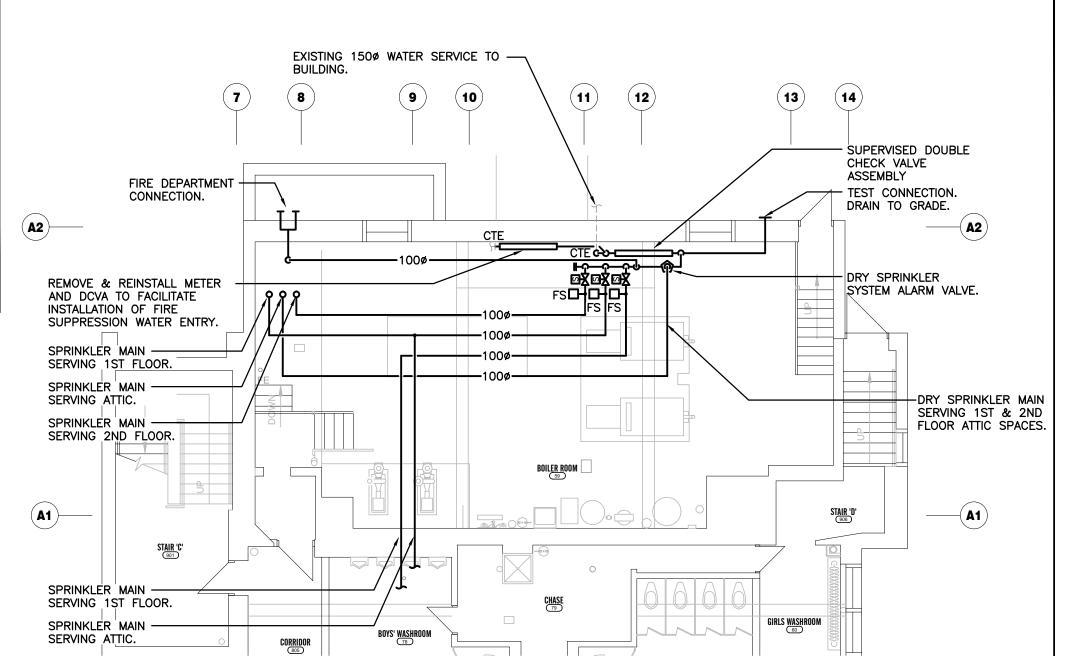












BASEMENT BOILER ROOM PART PLAN

HYDRAULIC CALC CONSTRAINTS

- 1. MUNICIPAL WATER PRESSURE AT THIS ADDRESS IS NOT SUBSTANTIAL. THE BUILDING IS RELATIVELY TALL WITH A TALL COLD ATTIC SPACE REQUIRING A DRY SYSTEM. THE TALLEST PORTION OF THE ATTIC HAS SLOPED CEILINGS. SPECIAL ATTENTION TO HYDRAULIC CALCULATIONS WILL BE REQUIRED.
- 2. THE SUCCESSFUL CONTRACTOR SHALL PROVIDE A COMPLETE HYDRAULICALLY CALCULATED SYSTEM WITHOUT THE USE OF A FIRE PUMP.
- 3. THE HYDRAULICALLY CALCULATED FIRE SUPPRESSION SYSTEM DESIGN IS TO BE COMPLETED BASED ON CONFIRMED FLOW DATA (FLOW TEST REQUIRED TO BE COMPLETED BY CONTRACTOR).
- 4. THE SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A FLOW TEST DATE IMMEDIATELY AFTER AWARD OF TENDER AND SHALL CONDUCT THE FLOW TEST AT THE EARLIEST AVAILABLE OPPORTUNITY.
- 5. THE CONTRACTOR SHALL INFORM THE CONSULTANT IMMEDIATELY IF AVAILABLE WATER PRESSURE AT THIS SITE IS LESS THAN ANTICIPATED (SEE BELOW).
- 6. WHERE AVAILABLE FLOW DATA IS LESS THAN THE WORST-CASE DATA TABULATED BELOW, THE CONTRACTOR SHALL PROVIDE PROOF-OF-DESIGN BASED ON THE WORST-CASE INFORMATION PROVIDED
- 7. THE FOLLOWING FLOW TEST DATA, AVAILABLE FROM THE CITY OF KITCHENER, FOR NEARBY ADDRESSES, IS PROVIDED FOR REFERENCE ONLY FOR CONSIDERATION AT TIME OF TENDER. DETAILED DESIGN IS TO USE CONFIRMED FLOW DATA.

	200	155-159	25 Krug
Address	Frederick Street	Frederick Street	Street
FLOW TEST DATE	JULY 19, 2023	MAY 16, 2019	MAR 29, 2018
STATIC PRESSURE	55 PSI	52 PSI	58 PSI
RESIDUAL PRESSURE	50 PSI	48 PSI	55 PSI
FLOW RATE (@ RESIDUAL PRESSURE)	1615 USgpm	1501 USgpm	1902 USgpm

8. BUILDING HEIGHT: THE PEAK BUILDING HEIGHT ABOVE GRADE (PEAK OF SLOPED ATTIC) IS APPROXIMATELY 16M. PEAK BUILDING HEIGHT IS TO BE SITE

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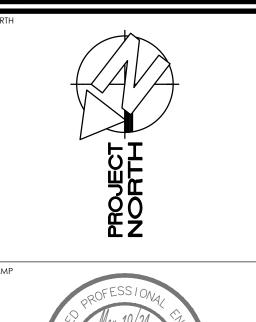
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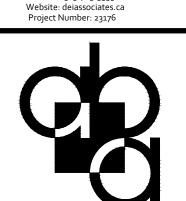
J.C. ANDERSON

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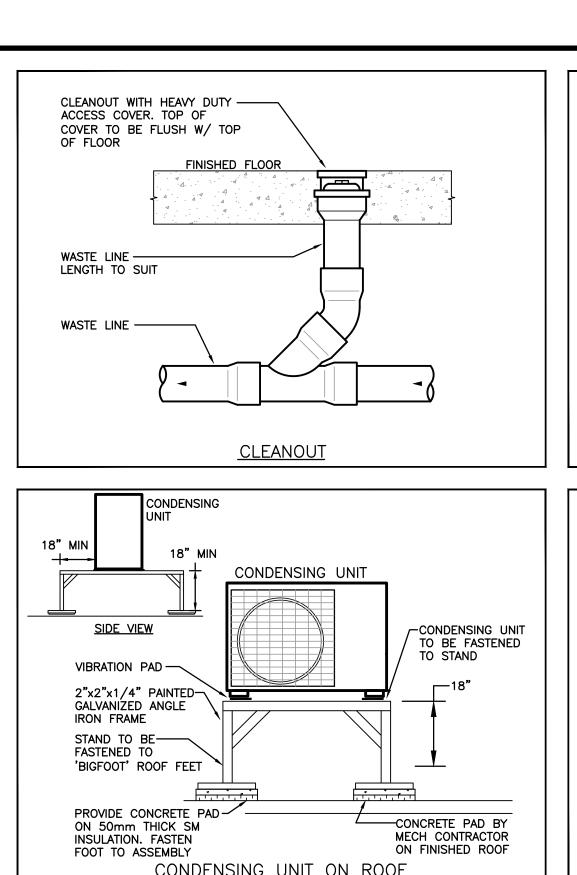


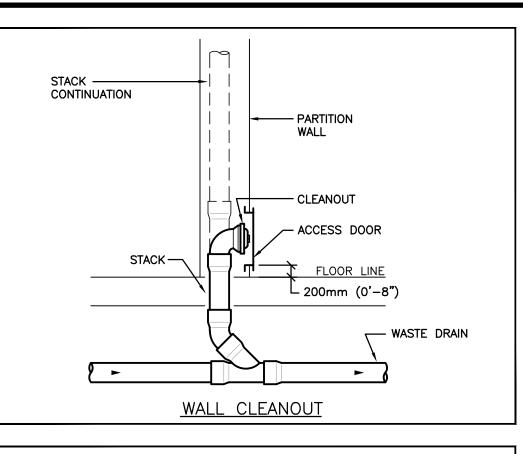
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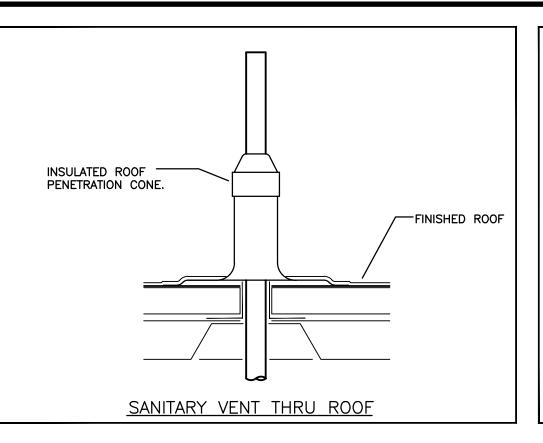
FIRE SUPPRESSION **DETAILS & PART PLAN**

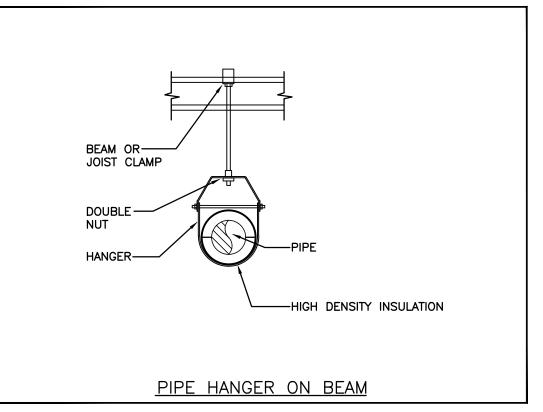
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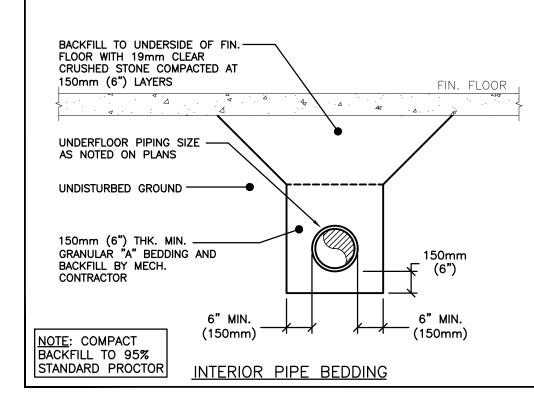
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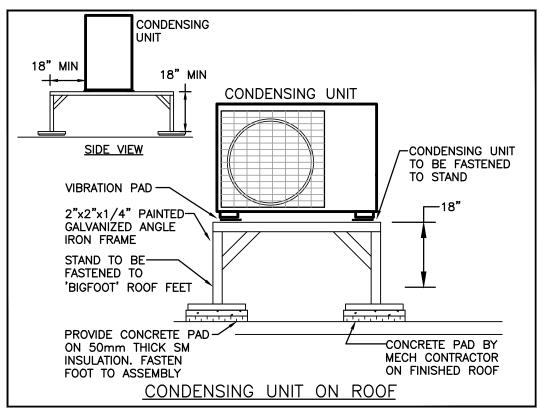


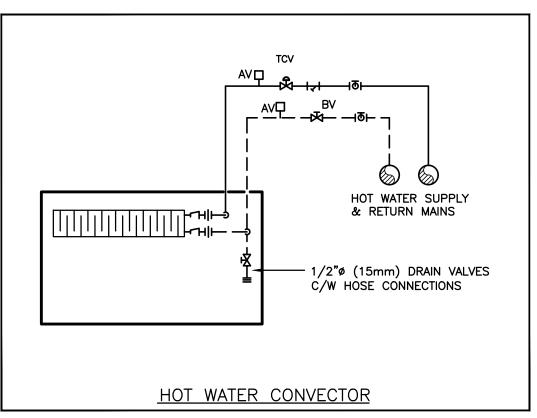


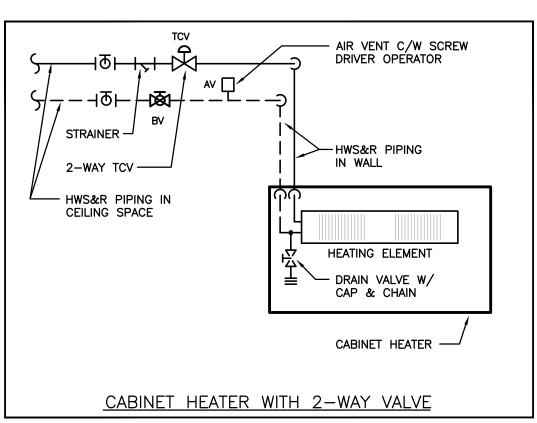


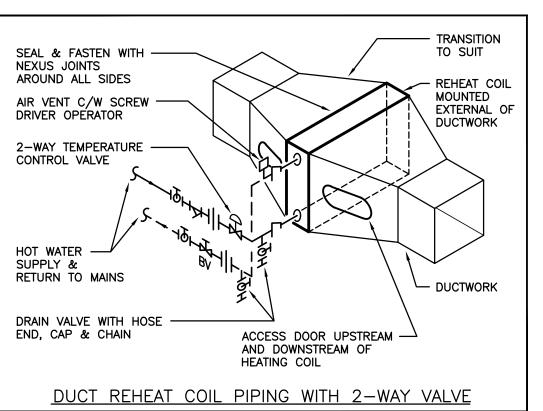


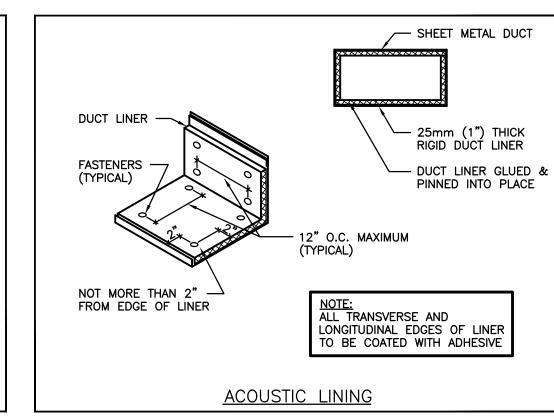


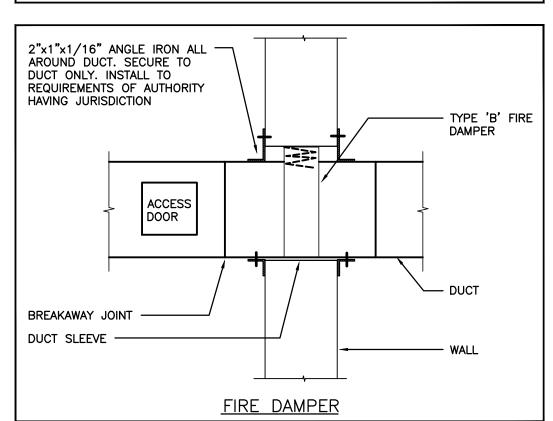


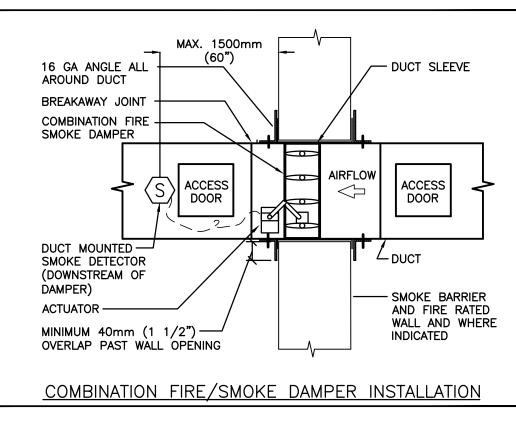


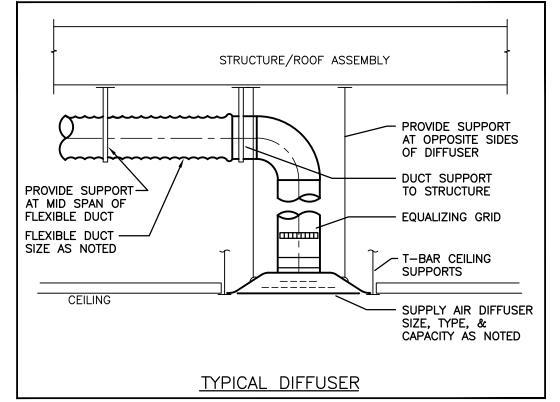


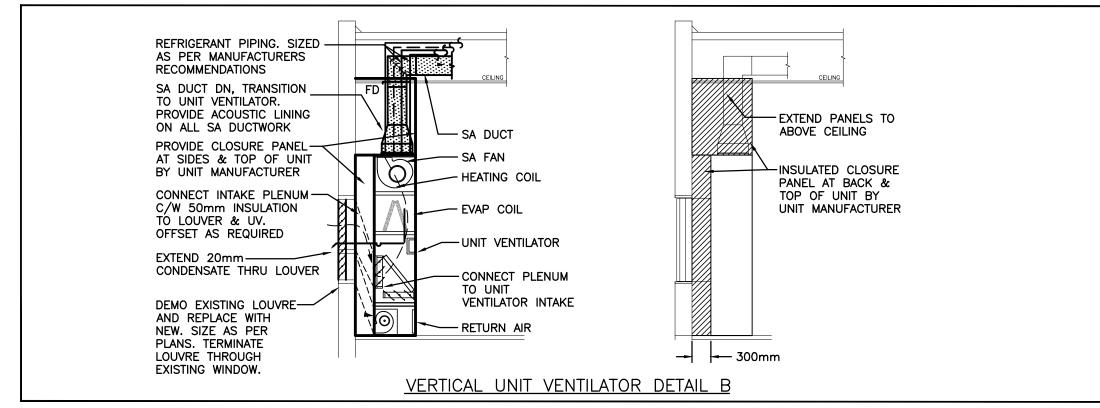


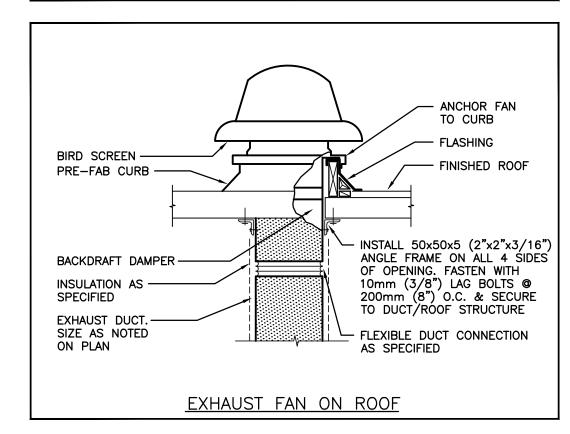


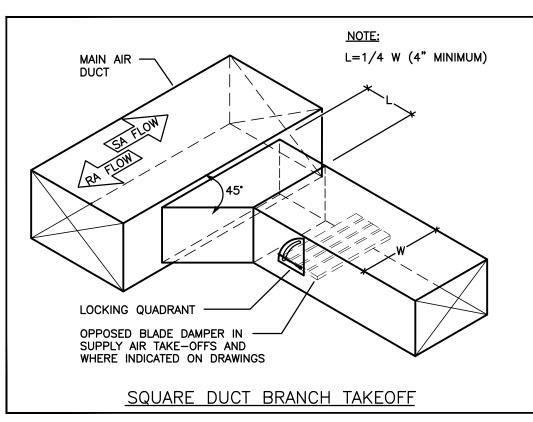


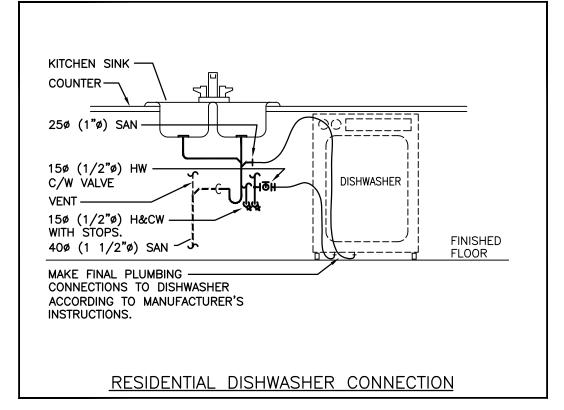


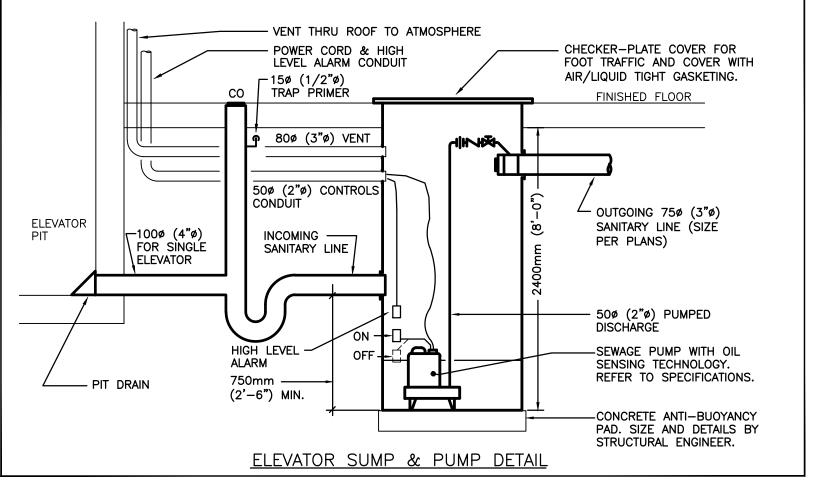


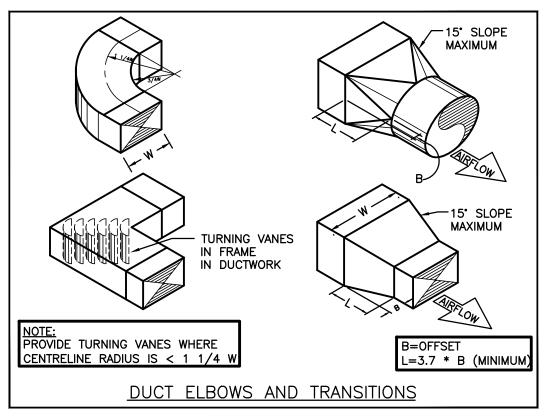


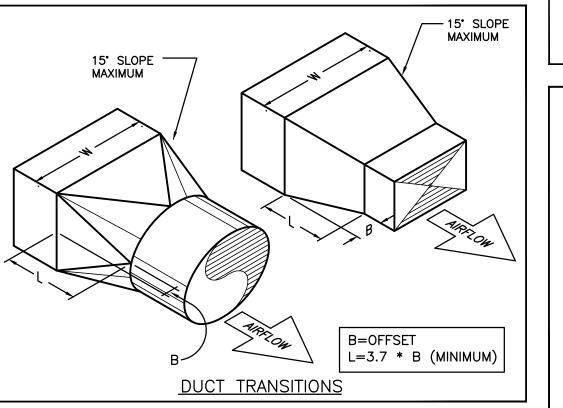


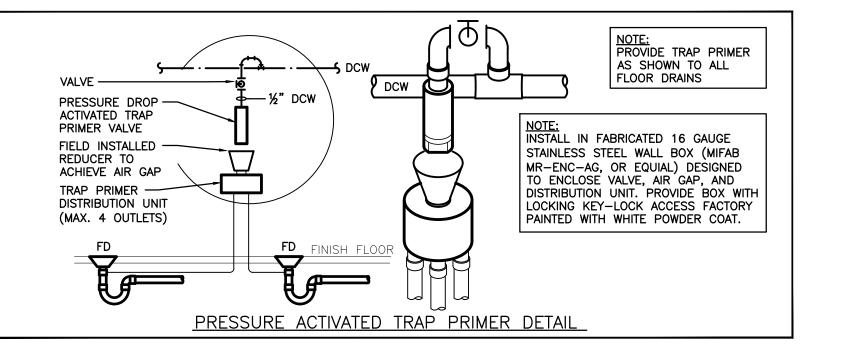


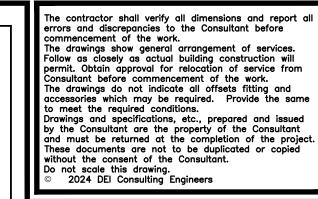




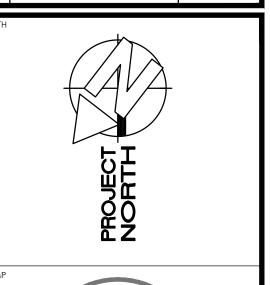


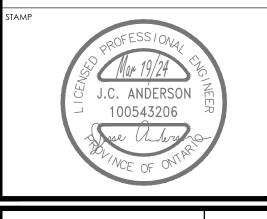






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DETAILS

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