

UNIT VENTILATOR SCHEDULE Capacity Min. O.A. SP in. Size tons cfm (cfm) wc hp Medium Rows F F GPM Medium To Total Cap. Sens. Cap. Voltage MCA MOCP Manufacturer Remarks FLOOR MOUNTED 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 UNIT VENTILATOR 3-SPEED ECM MOTOR, FACE & BYPASS HEATING COIL, 3-WAY VALVE AT HEATING COIL, 250MM INSULATED REAR PIPE CHASE, TOP SUPPLY UV-8 FLOOR MOUNTED UNIT VENTILATOR 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 DISCHARGE HEAD, DIGITAL READY CONTROLS PACKAGE, REAR OA INTAKE UV-9 FLOOR MOUNTED UNIT VENTILATOR DUCT COLLAR, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE COMPLETED ON SITE TO SUIT DRAFTSTOP DOWNDRAFT PROTECTION 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 UV-10 FLOOR MOUNTED UNIT VENTILATOR FEATURE & PIPING TUNNEL) C/W MOUNTING HARDWARE & KICKPLATE 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 (CONFIRM CUT-OUTS WITH MANUFACTURER), BOTTOM FRONT RA INLET FLOOR MOUNTED GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA INLET, UNIT UV-11 UNIT VENTILATOR 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 MOUNTED DISCONNECT (INSIDE ENCLOSURE), HEATING COIL FREEZESTAT (FACTORY INSTALLED & WIRED), ADJUSTABLE LEG LEVELLERS, PUTTY UV-12 FLOOR MOUNTED UNIT VENTILATOR 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN UAVS9-H10 BEIGE CABINET COLOUR, TAMPER-RESISTANT FASTENERS ON ALL ACCESS DOORS, REPLACEMENT FILTERS C/W ONE EXTRA SET, UV-13 FLOOR MOUNTED UNIT VENTILATOR SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE PAN, 50MM BASE TO RAISE UNIT, SET FAN TO MEDIUM SPEED 2.5 | 1000 | 400 | 0.1 | 1/3 | WATER | 2 | 150 | 130 | 45.7 | 4.6 | DX | 33.2 24.9 | 120/1/60 | 6.3 | 15 | DAIKIN

				Canacit	Con	npressor		Sat.			Electrical		Unit		
Item	Туре	Service	Tons	Capacity MBH	Туре		No. Ret	rig. Suc Tem	tion Co		MCA	МОСР	Weight Manufacturer	Model	Remarks
CU-7	OUTDOOR ROOF MOUNTED	CLASSROOM 12	3.0	36.0	SCROLL	1	1 R4	10A 5	2	208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-7.
CU-8	OUTDOOR ROOF MOUNTED	SPECIAL ED CLASSROOM 6	3.0	36.0	SCROLL	1	1 R4	10A 5	2	208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-8.
CU-9	OUTDOOR ROOF MOUNTED	CLASSROOM 11	3.0	36.0	SCROLL	1	1 R4	10A 5	2	1 208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-9.
CU-10	OUTDOOR ROOF MOUNTED	CLASSROOM 7	3.0	36.0	SCROLL	1	1 R4	10A 5	2	208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-10.
CU-11	OUTDOOR ROOF MOUNTED	CLASSROOM 10	3.0	36.0	SCROLL	1	1 R4	10A 5	2	208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-11.
CU-12	OUTDOOR ROOF MOUNTED	CLASSROOM 8	3.0	36.0	SCROLL	1	1 R4	10A 5	2	208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-12.
CU-13	OUTDOOR ROOF MOUNTED	CLASSROOM 9	3.0	36.0	SCROLL	1	1 R4	10A 5	2	208/1/	18.8	35	200± DAIKIN	DX16SA0371	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO UV-13.

<u>GRIL</u>	LE SCHEDULE			
ltem	Type Manufacturer & Model		Finish	Remarks
R1	CEILING RETURN/EXHAUST	KRUEGER S580	BRITISH WHITE COAT	C/W SCREWED FASTENING

* ACCEPTABLE MANUFACTURERS: DAIKIN, TRANE, ENGINEERED AIR

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:

 TSSA CERTIFICATE OF AUTHORIZATION FOR SPLIT REFRIGERATION SYSTEMS (EXCEEDING 3 OR 5 TONS)
 - ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

Item	Item Description		Description	
	CUT EXISTING & CONNECT NEW PIPING	Φ	TEMPERATURE GAUGE	
—	FLOW DIRECTION	Ф	THERMOMETER	
——CD——	CONDENSATE PIPING	GФ	THERMOSTAT (WITH OR WITHOUT GUARD)	
——нws——	HEATING WATER SUPPLY PIPING	^G ©	CARBON DIOXIDE (CO2) SENSOR (WITH OR WITHOUT GUARD)	
— —HWR— —	HEATING WATER RETURN PIPING)))))	TURNING VANES	
——RL——	REFRIGERANT LIQUID PIPING		SUPPLY AIR DUCT	
——RS——	REFRIGERANT SUCTION PIPING		RETURN/EXHAUST AIR DUCT	
	TEE CONNECTION	-	ACOUSTIC DUCT LINING	
с—	PIPE DOWN	— BD	BALANCING DAMPER	
•—	PIPE UP	— OBD	OPPOSED BLADE DAMPER	
	REDUCER/INCREASER	~~ M	MOTORIZED DAMPER (OPPOSED BLADE)	
	CHECK VALVE	— FD	FIRE DAMPER	
	UNION	— BDD	BACKDRAFT DAMPER	
 	STRAINER		RIGID ROUND DUCT	
Y	PRESSURE & TEMPERATURE TEST STATION	Type Size Cap.	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)	
	SCREWED OR WELDED PIPE CAP	Size 1	HYDRONIC HEATING SIZE,	
—— Ծ ——	BALL VALVE	Capacity	TYPE & CAPACITY	
X	GATE VALVE	AD	ACCESS DOOR	
P AV	AIR VENT	EXP	EXPANSION COMPENSATOR/JOINT	
≮ C	RISER VALVE	RIC	RETURN IN CABINET	
— ™ BV	BALANCING VALVE	AFF	ABOVE FINISHED FLOOR	
TCV	TEMPERATURE CONTROL VALVE	—ЕХ—	EXISTING DUCT (SIZE AS INDICATED)	
P	PRESSURE GAUGE			
		ı .		

MECHANICAL LEGEND

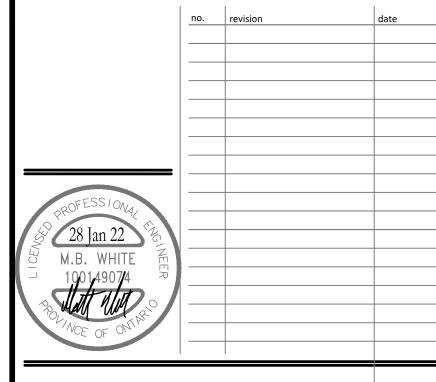


Phone: 519-725-3555 Website: deiassociates.ca Project Number: 21085

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no.	issue	date
1	Issued for Tender	Jan 28, 202

WRDSB STEWART AVENUE PUBLIC SCHOOL RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 145 STEWART AVE, CAMBRIDGE N1R 2V5

drawing
KEY PLAN, LEGEND, AND SCHEDULES

drawing scale
AS NOTED

ward99 project numb

7500 Highway 27, Unit 27B Vaughan ON L4H 0J2

416 613 5880 www.ward99architects.com

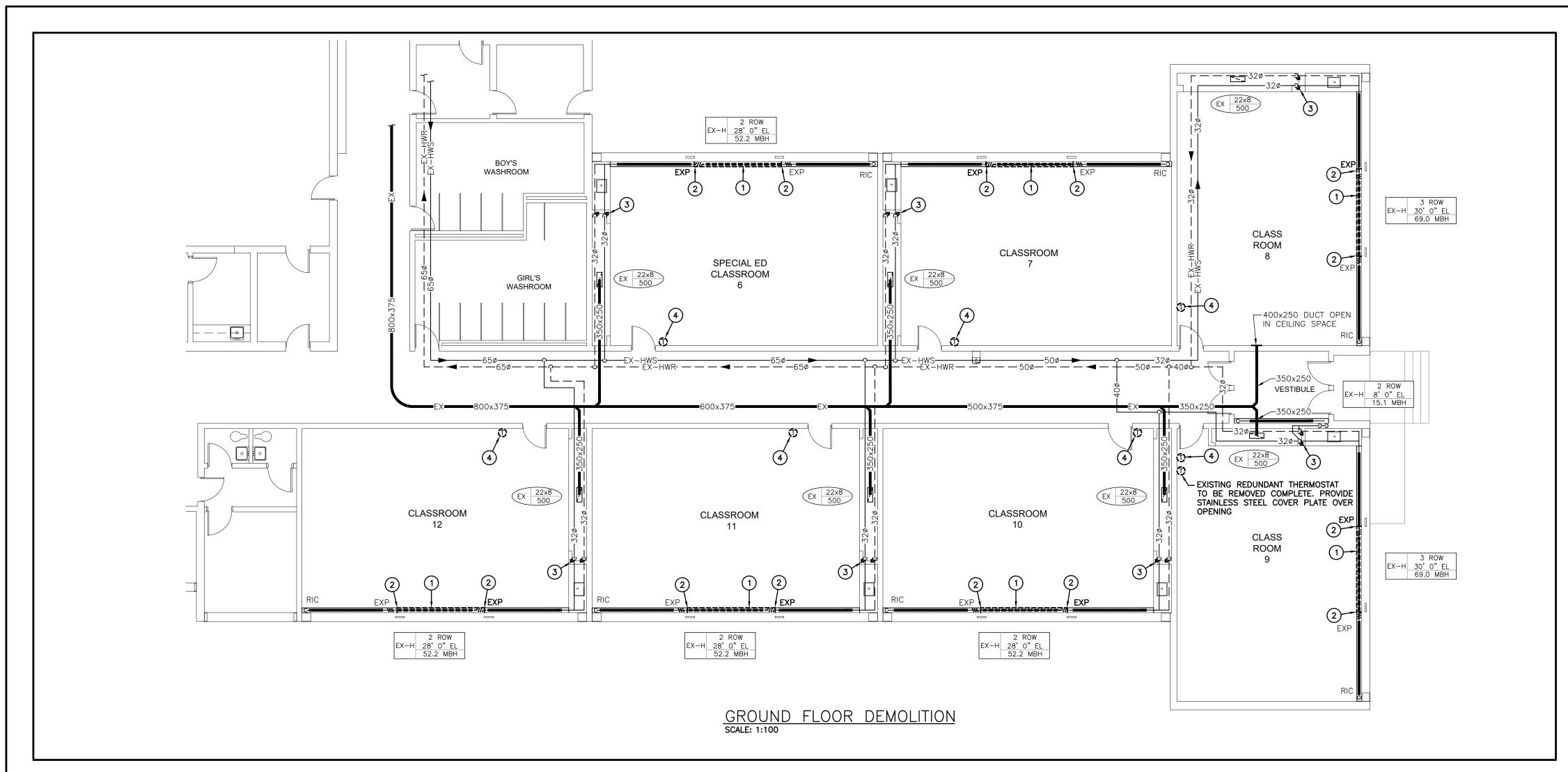
21009 - STEWART

ward9

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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 PRIOR TO THE
- 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 BENAIN.
- 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

- 1. EXISTING SECTION OF RADIANT HEATING CABINET TO BE REMOVED COMPLETE. MODIFY CABINET TO ACCOMMODATE NEW UNIT VENTILATOR.
- CUT EXISTING RADIATION PIPING/FIN AND REMOVE WHERE NEW UNIT VENTILATOR WILL BE INSTALLED. PREPARE RADIANT HEATING PIPE FOR NEW CONNECTION.
- 3. EXISTING ISOLATION AND BALANCING VALVES IN EXISTING CHASE TO BE REMOVED COMPLETE AND REPLACED WITH NEW. PROVIDE NEW ACCESS DOOR IN EXISTING OPENING.
- 4. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. PROVIDE NEW DDC THERMOSTAT/SENSOR & CONTROL WIRING.

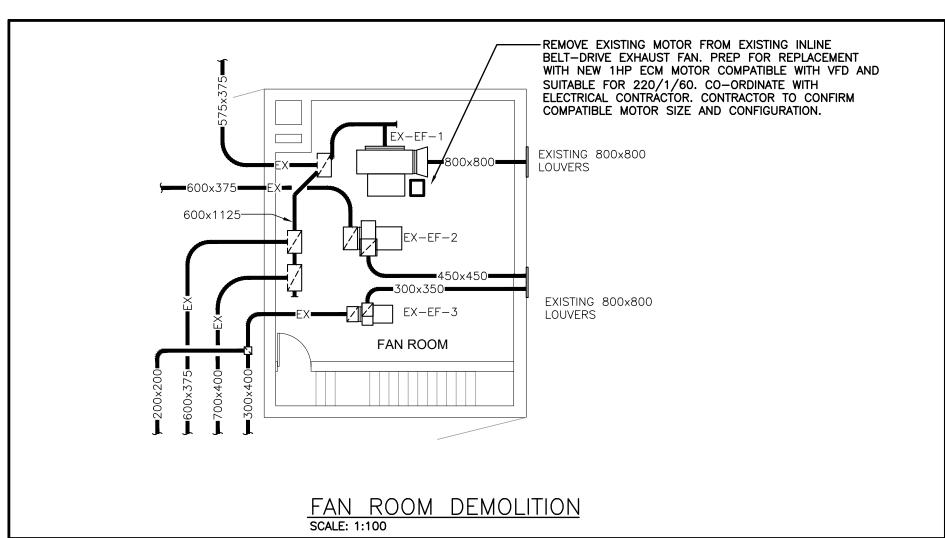
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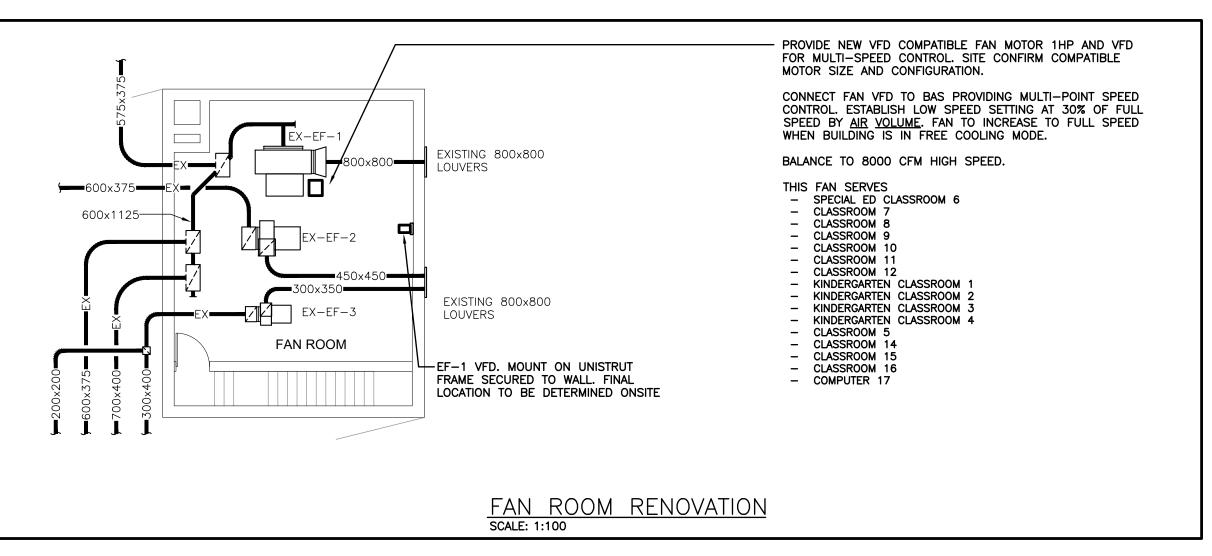
SYSTEM DRAINAGE

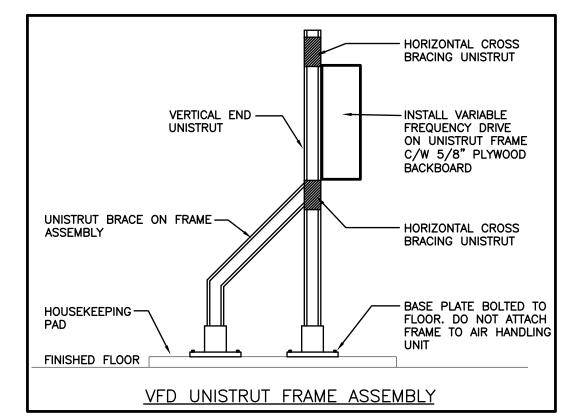
INCLUDE IN TENDER PRICING FOR FREEZING OR DRAIN SYSTEM AS REQUIRED TO PERFORM CONTRACT WORK.

RADIATION REFURBISH

IN ALL AREAS OF WORK, REFURBISH EXISTING RADIATION AS SPECIFIED.









Project Number: 21085

Phone: 519-725-3555

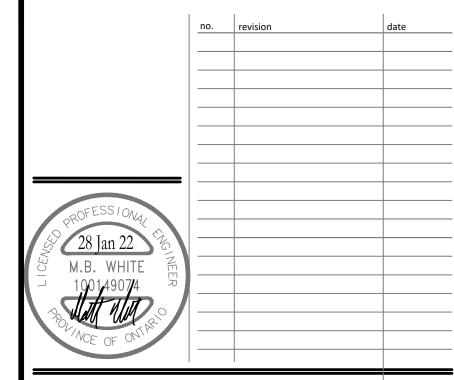
Website: deiassociates.ca

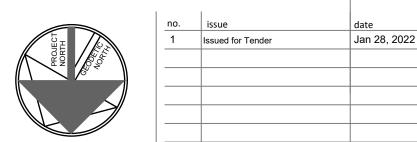
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project
WRDSB STEWART AVENUE PUBLIC SCHOOL RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 145 STEWART AVE, CAMBRIDGE N1R 2V5

drawing

GROUND FLOOR DEMOLITION

drawing scale
AS NOTED

21009 - STEWART

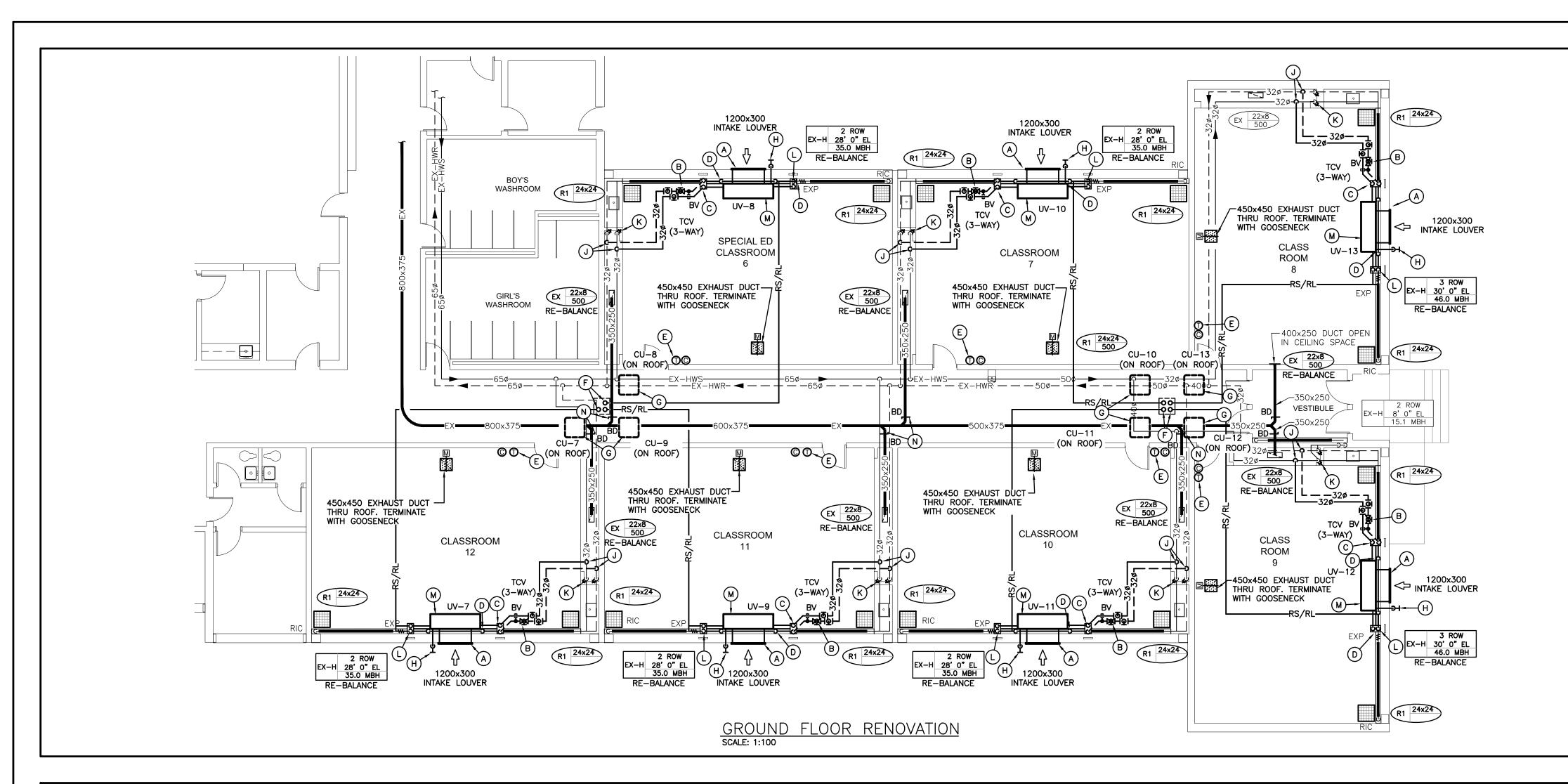
7500 Highway 27, Unit 27B Vaughan ON L4H 0J2

416 613 5880 www.ward99architects.com

ward99 architects

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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 DUCTWORK.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.

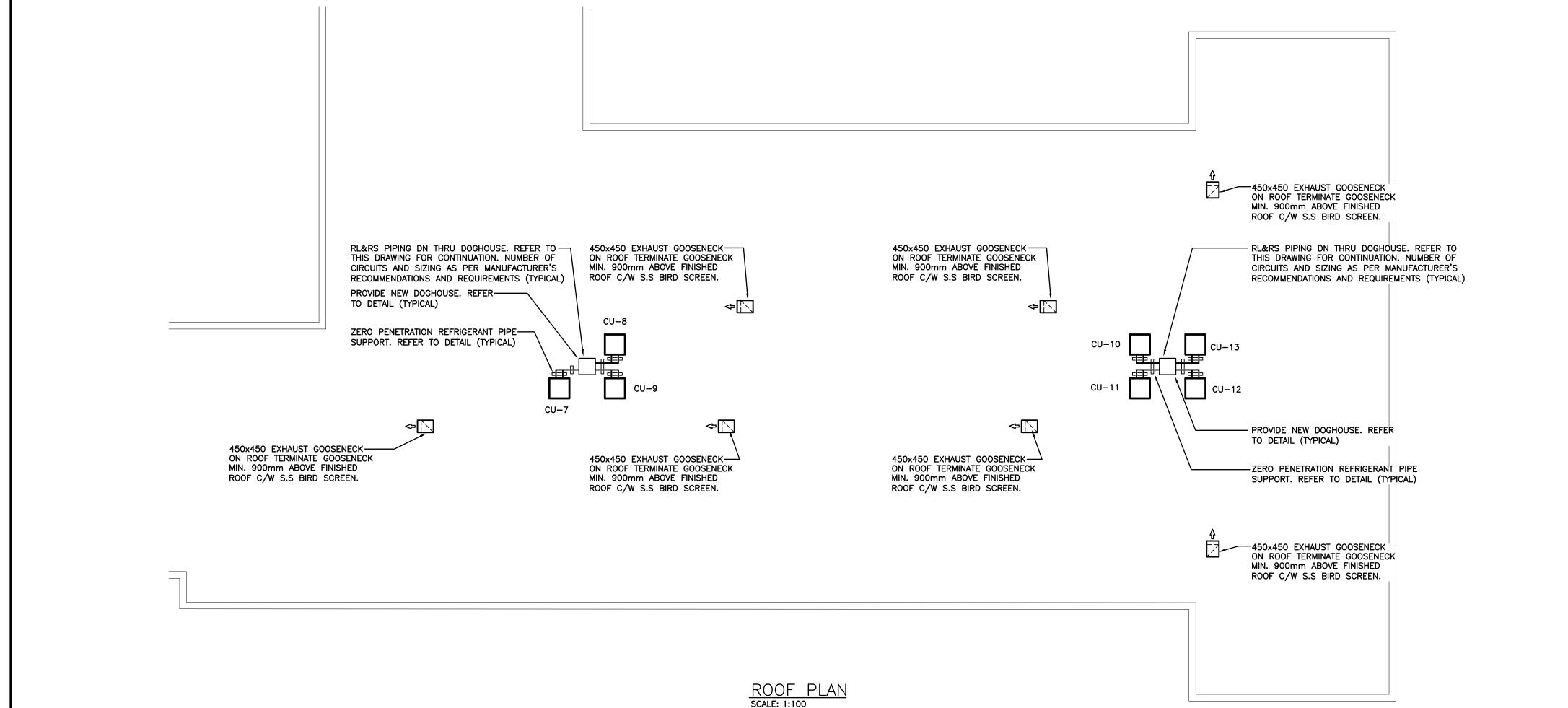
SPECIFIC RENOVATION NOTES

- A. PROVIDE HEAVY DUTY LATTICE GRILLE OVER LOUVER.
- CONNECT NEW 320 HWS&R PIPING TO NEW UNIT VENTILATOR C/W NEW ISOLATION BALL VALVES, BALANCING VALVE, 3 WAY TCV, UNIONS, & STRAINER. CONNECT NEW RS/RL PIPING TO NEW UNIT VENTILATOR.
- . NEW HWS&R PIPING DN IN CHASE. UTILIZE REAR CHASE TO UNIT VENTILATOR. CHASE AS REQUIRED TO SUIT PIPING CONNECTION LOCATION
- . MODIFY EXISTING RADIATION TO ALLOW FOR NEW RADIATION PIPING TO BE PIPED THRU REAR CHASE OF NEW UNIT VENTILATOR. COMPLETE WITH AIR VENTS REFER TO DETAILS.
- NEW DDC THERMOSTAT/SENSOR & CONTROL WIRING. FISH EXISTING WALL AS REQUIRED FOR NEW CONTROL WIRING.
- RL&RS PIPING UP THRU ROOF IN DOGHOUSE TO CONDENSING UNIT. REFER TO DETAIL. NUMBER OF REFRIGERANT CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- CONDENSING UNIT ON CONCRETE PAVER/INSULATION ON ROOF ABOVE. REFER TO DETAIL.
- 25¢ CONDENSATE DRAIN ROUTED THRU EXTERIOR WALL. REFER TO
- CONNECT NEW 320 HWS&R PIPING TO EXISTING 320 HWS&R PIPING. INSTALL NEW ISOLATION BALL VALVES AND BALANCING VALVE IN EXISTING
- PIPING IN CHASE. PROVIDE NEW ACCESS DOOR.
- NEW RL&RS PIPING DN IN CHASE. UTILIZE REAR CHASE TO UNIT VENTILATOR. CHASE AS REQUIRED TO SUIT PIPING CONNECTION LOCATION. . MANUFACTURER/CONTRACTOR TO PROVIDE BASE TO ENSURE TOP OF UV
- N. PROVIDE BALANCING DAMPERS ON EXISTING DUCTWORK IF REQUIRED. REFER TO IDENTIFY PRICE IN SPECIFICATION.

NOTE:

IS FLUSH WITH EXISTING SILL.

- INCLUDE IN TENDER PRICING FOR FREEZING OR DRAIN SYSTEM AS REQUIRED TO PERFORM CONTRACT WORK.
- RE-BALANCE ALL NEW AND EXISTING RADIATION TO CAPACITIES AS INDICATED
- IN ALL AREAS OF WORK, REFURBISH EXISTING RADIATION AS SPECIFIED.



GENERAL ROOF NOTES

- MAINTAIN MINIMUM 3700mm (12'-0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKÉ/EXHAUST OPENINGS.
- MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF.



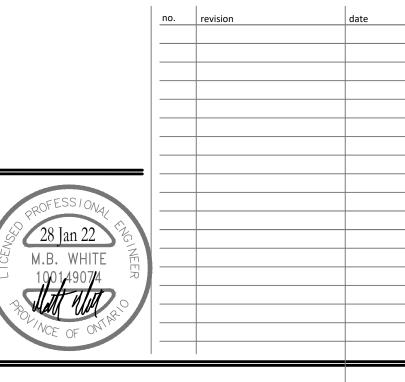
55 Northland Road, Waterloo, ON N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca

Project Number: 21085

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no.	issue	date
1	Issued for Tender	Jan 28, 2022

WRDSB STEWART AVENUE PUBLIC SCHOOL RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD 145 STEWART AVE, CAMBRIDGE N1R 2V5

GROUND FLOOR RENOVATION AND ROOF PLAN

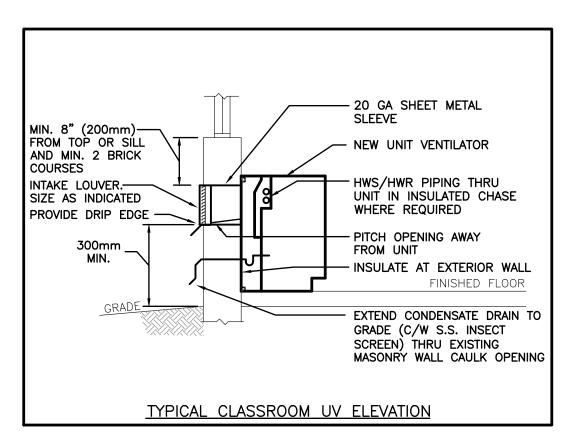
drawing scale

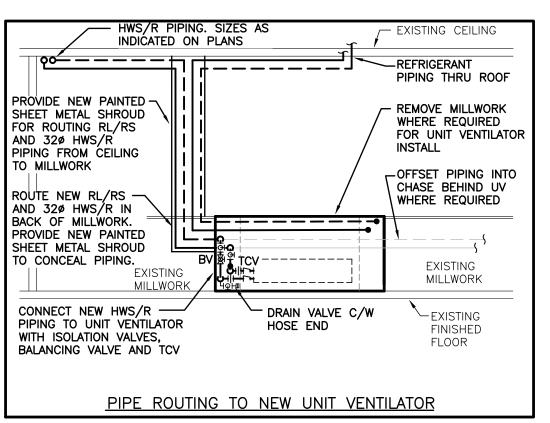
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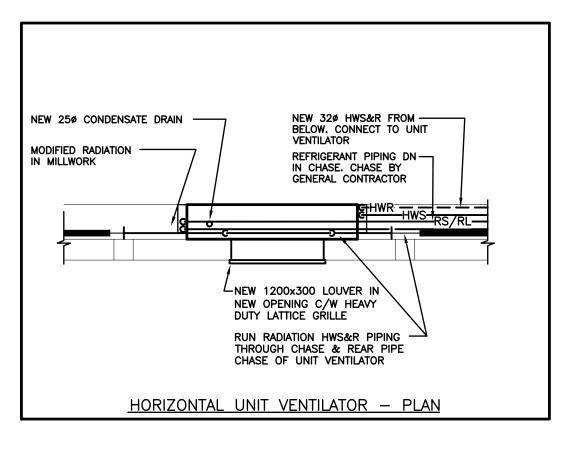
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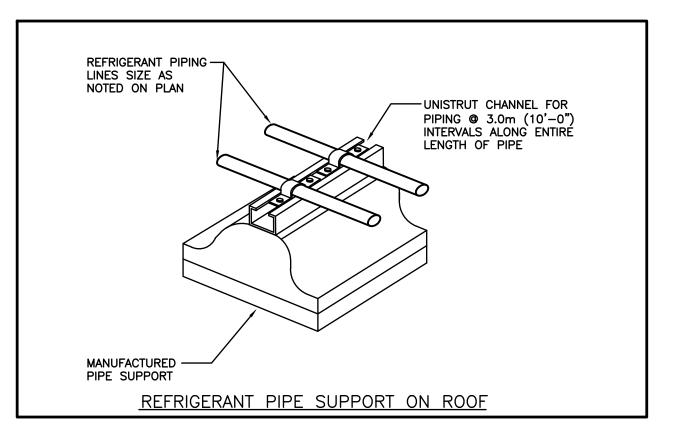
architects

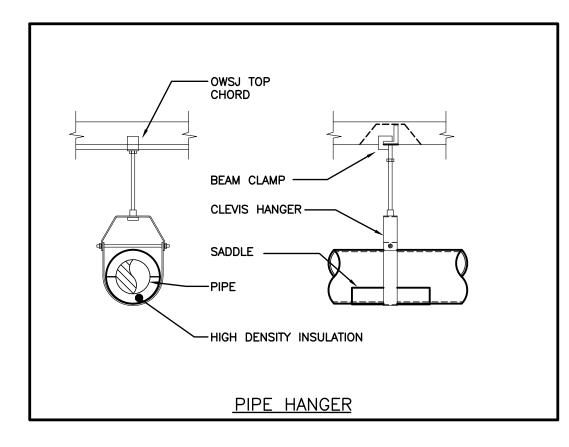
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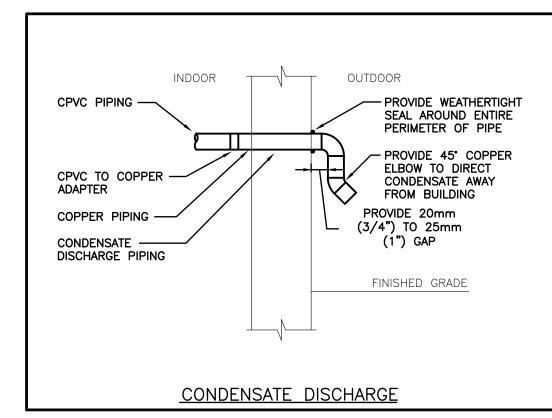


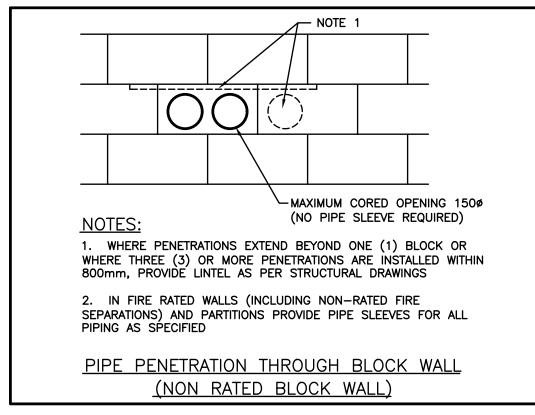


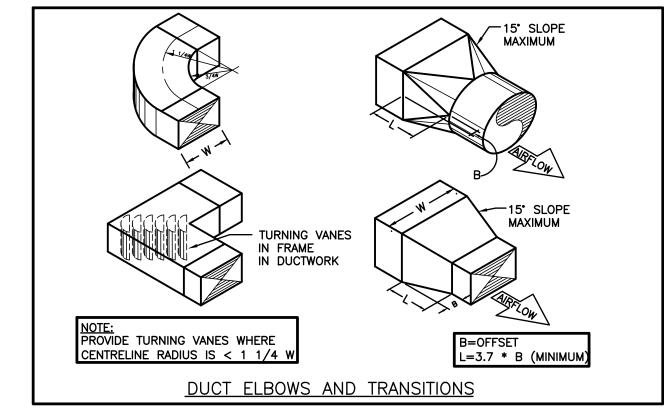


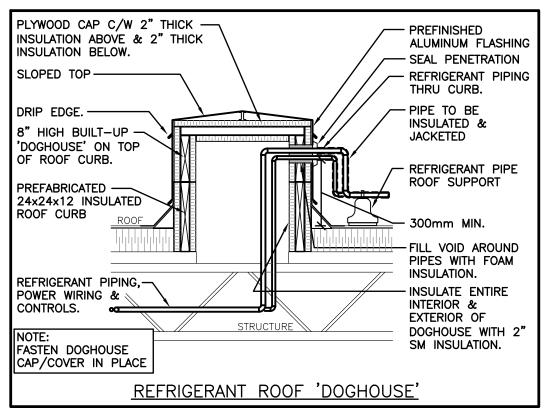


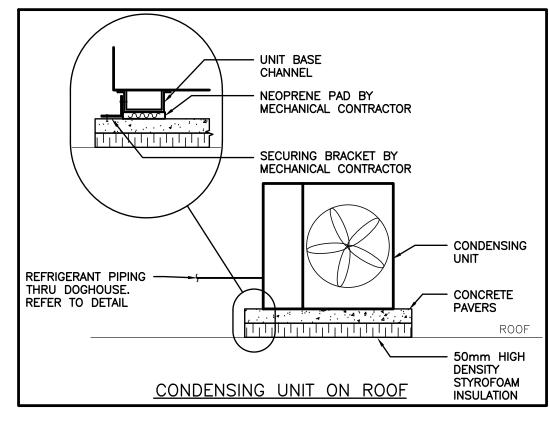


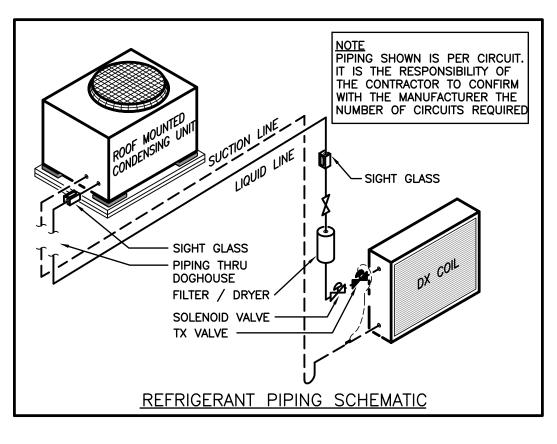


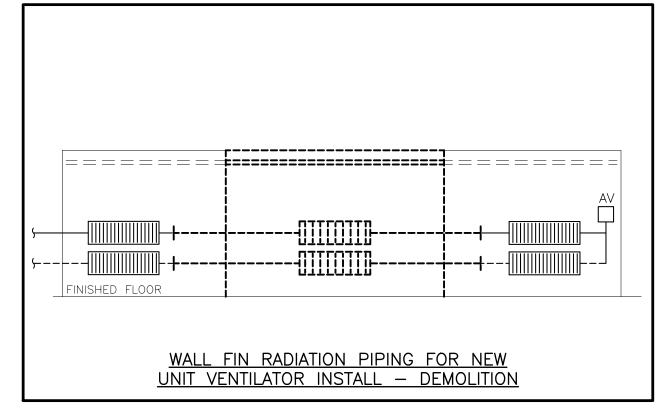


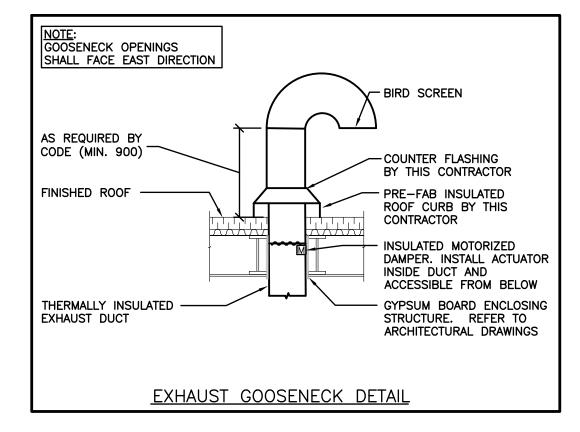


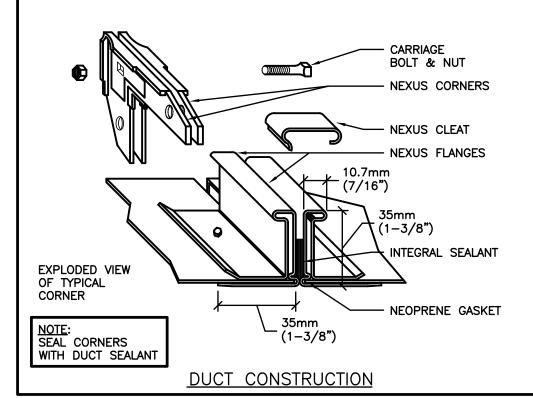


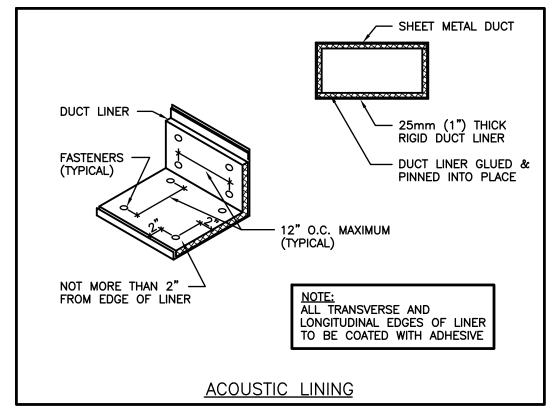


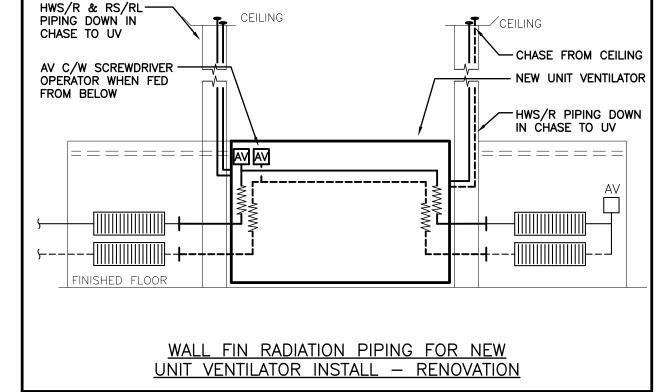














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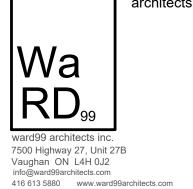
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project
WRDSB STEWART AVENUE PUBLIC SCHOOL RENOVATIONS

WATERLOO REGION	DISTRICT SCHOO	OL BOARD
145 STEWART AVE, C	AMBRIDGE N1R	2V5
drawing		
DETAILS		
drawing scale		
AS NOTED		
ward99 project number		
21009 - STEWART		
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