



GRILLE SCHEDULE

Item	Type	Equalizing Grid	Volume Damper	Acceptable Manufacturer	Description
S1	LOUVERED SUPPLY GRILLE	NO	NONE	EH PRICE 70	DOUBLE DEFLECTION, 1/2" SPACING, EXTRUDED ALUMINUM 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	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W CHANNEL BORDER FOR LAY-IN T-BAR CEILING.
E1	CEILING RETURN GRILLE (DUCTED)	NO	NONE	EH PRICE 80	1/2x1/2x1/2 ALUMINUM EGGRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
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.

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).

LOUVER SCHEDULE

Item	Type	Size	Airflow cfm	Free Area (Pressure Drop)	Acceptable Manufacturer	Description
L-1	2" (50mm) DRAINABLE BLADE LOUVER	SEE PLANS	SEE PLANS	MIN 40%	UNITED ENERTECH FL-D-2	EXTRUDED ALUMINUM CONSTRUCTION, 2" DEEP BLADES, 1.5" BLADE SPACING DRIP EDGE, DRAINABLE JAMB, MIN 39% FREE AREA AT SPECIFIED SIZE, MIN 805 FPM BEGINNING POINT OF WATER ENTRY, GALVANIZED BIRD SCREEN WITH MAX 1/2" OPENINGS.

DYNAMICALLY BALANCED SYSTEM (PUMP P-4)

THE HYDRONIC HEATING SYSTEM ASSOCIATED WITH PUMP P-4 IS TO DYNAMICALLY REBALANCED. THIS DYNAMIC BALANCING REQUIRES THREE STEPS:

- FULL 'SYSTEM' BALANCE:  
THIS IS A STANDARD BALANCE EXERCISE. ALL HYDRONIC HEATING COMPONENTS (FAN COILS, UNIT VENTILATORS, RADIANT HEATERS) ARE INCLUDED. NO COMPONENTS ARE ISOLATED. ALL COMPONENTS ARE BALANCED TO MINIMUM FLOW RATES AS INDICATED IN BALANCING TABLE. RECORD PUMP FLOW RATE.
- RADIANT HEATING FLOW BALANCE:  
ALL UNIT VENTILATORS WITH 2-WAY VALVES ARE MANUALLY ISOLATED. UNIT VENTILATORS WITH 3-WAY VALVES ARE SET TO FULL BYPASS. CONFIRM THAT MINIMUM FLOW RATES IN CLASSROOM RADIANT HEATERS MEET MINIMUM FLOW RATES AS INDICATED IN THE DYNAMIC BALANCING TABLE. INCREASE DIFFERENTIAL PRESSURE SET-POINT FOR P-4 IF NECESSARY TO MEET MINIMUM FLOW RATES. RECORD PUMP FLOW RATED.
- UNIT VENTILATOR FLOW BALANCE:  
ALL CLASSROOM RADIATORS ARE MANUALLY ISOLATED. ALL UNIT VENTILATORS ARE SET TO FULL FLOW. CONFIRM THAT MINIMUM FLOW RATES IN UNIT VENTILATORS MEET MINIMUM FLOW RATES AS INDICATED IN THE DYNAMIC BALANCING TABLE. INCREASE DIFFERENTIAL PRESSURE SET-POINT FOR P-4 IF NECESSARY TO MEET MINIMUM FLOW RATES. RECORD PUMP FLOW RATE.
- RECORD FINAL DIFFERENTIAL PRESSURE SETPOINT FOR PUMP.

NOTES:

- UNIT VENTILATOR EQUIPMENT SHALL MEET MINIMUM HEATING CAPACITY AS SCHEDULED. UNIT VENTILATORS WILL BE BALANCED BELOW SCHEDULED HEATING CAPACITY.
- EXISTING CLASSROOM RADIANT HEATERS ARE BALANCED TO LOWER FLOW RATES THAN ORIGINAL DESIGN.
- FULL 'SYSTEM' FOR THIS DYNAMIC BALANCE EXERCISE REFERS TO ALL HYDRONIC LOAD COMPONENTS CONNECTED TO P-4.

DYNAMICALLY BALANCED SYSTEM (P-4) SCHEDULE

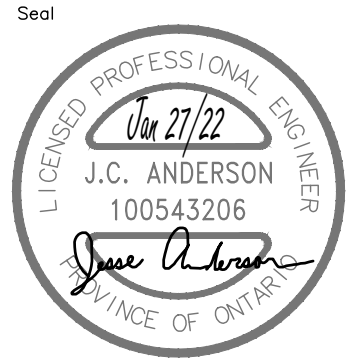
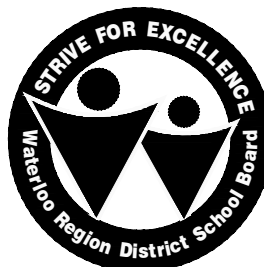
Location	Hydronic Item	Full System Balance* (FLOW GPM)	Radiant Heating Balance** (MIN GPM)	Unit Ventilator Balance** (MIN GPM)	Valve
CLASSROOM 7	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 7	NEW UNIT VENT	3.0	4.0	4.5	3-WAY
CLASSROOM 8	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 8	NEW UNIT VENT	4.0	—	6.0	2-WAY
CLASSROOM 9	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 9	NEW UNIT VENT	3.0	—	4.5	2-WAY
CLASSROOM 10	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 10	NEW UNIT VENT	3.0	—	4.5	2-WAY
CLASSROOM 11	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 11	NEW UNIT VENT	3.0	4.0	4.5	3-WAY
CLASSROOM 18	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 18	NEW UNIT VENT	3.0	4.0	4.5	2-WAY
CLASSROOM 19	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 19	NEW UNIT VENT	3.0	—	4.5	2-WAY
CLASSROOM 20	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 20	NEW UNIT VENT	3.0	—	4.5	2-WAY
CLASSROOM 21	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 21	NEW UNIT VENT	3.0	—	4.5	2-WAY
CLASSROOM 22	EXISTING RAD	3.0	4.0	—	2-WAY
CLASSROOM 22	NEW UNIT VENT	3.0	4.0	4.5	3-WAY
SEMINAR 153	NEW UNIT VENT	2.5	3.3	3.8	2-WAY
SEMINAR 154	NEW UNIT VENT	2.5	3.3	3.8	2-WAY
VESTIBULE 807	CONVECTION HTR	3.0	4.0	4.5	2-WAY
CORRIDOR 810	RADIATOR	2.0	2.7	3.0	2-WAY
BOYS WR 120	UNIT HEATER	1.5	2.0	2.3	2-WAY
GIRLS WR 121	UNIT HEATER	1.5	2.0	2.3	2-WAY
STAGE 148	EXISTING RAD	4.0	6.3	6.0	2-WAY
RES A 201	EXISTING RAD	2.5	3.3	3.8	2-WAY
RES B 202	EXISTING RAD	2.5	3.3	3.8	2-WAY
MECH RM	PUMP P-4	83	85	80	

GENERAL DYNAMIC BALANCING NOTES:  
1. \* PRELIMINARY BALANCE TO THIS VALUE. RECORD DIFFERENTIAL PRESSURE SETTING AND PUMP FLOW RATE.  
2. \*\* PRELIMINARY BALANCE. CONFIRM THAT THIS FLOW RATE IS ACHIEVED WITH SELECT ITEMS ISOLATED (AS INDICATED). INCREASE DP SET POINT AS REQUIRED TO ACHIEVE FLOW. RECORD DP SET POINT AND PUMP FLOW RATE.  
3. GREY VALUES ARE ESTIMATES. NO CONFIRMATION REQUIRED  
4. DASH (—) INDICATES ITEM THAT IS ISOLATED. VALVE CLOSED)

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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ISSUANCES

No	DATE YY-MM-DD	DESCRIPTION	BY
1	21.12.21	ISSUED FOR 99% TENDER REVIEW	JA
2	21.01.27	ISSUED FOR PERMIT AND TENDER	JA



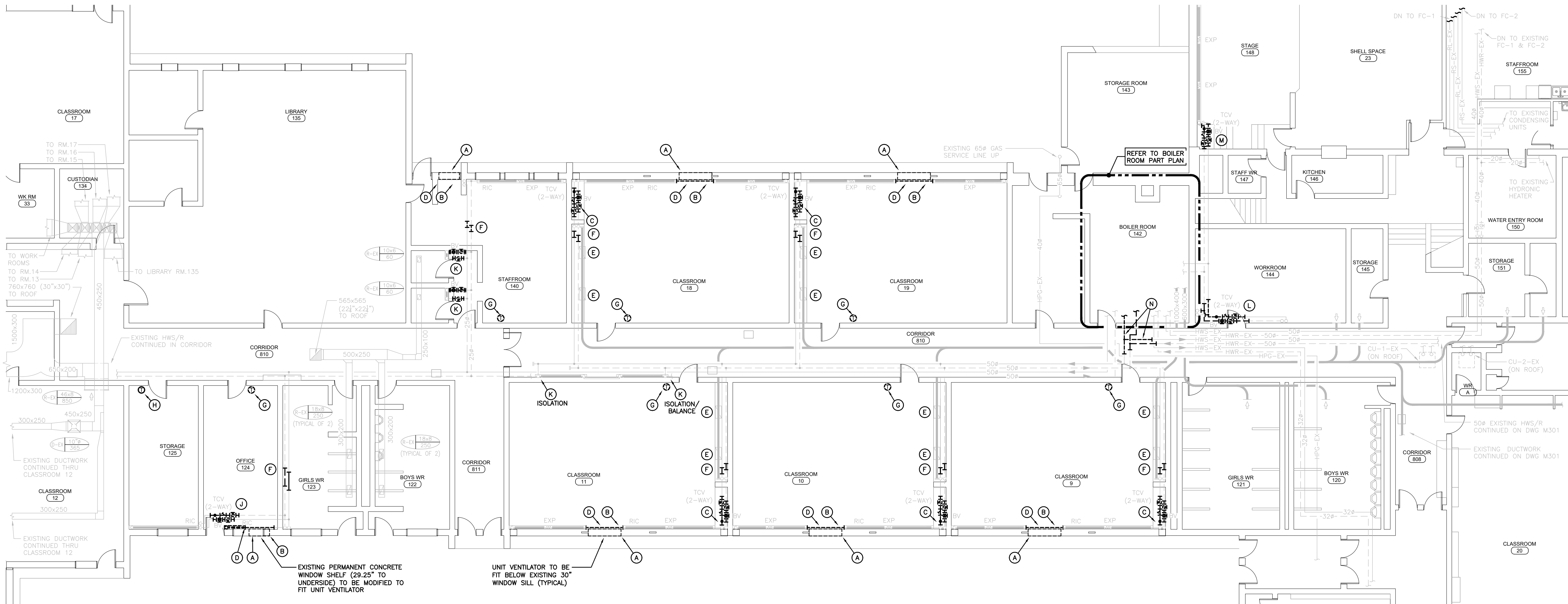
Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

Sheet Title  
**SCHEDULES**



**Consulting Engineers**  
MECHANICAL | ELECTRICAL | AQUATIC  
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Phone: 519-725-3555  
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Drawn by HAD	Checked by JA	Approved by JA
Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022
Project No. 21047	Drawing No. M102	



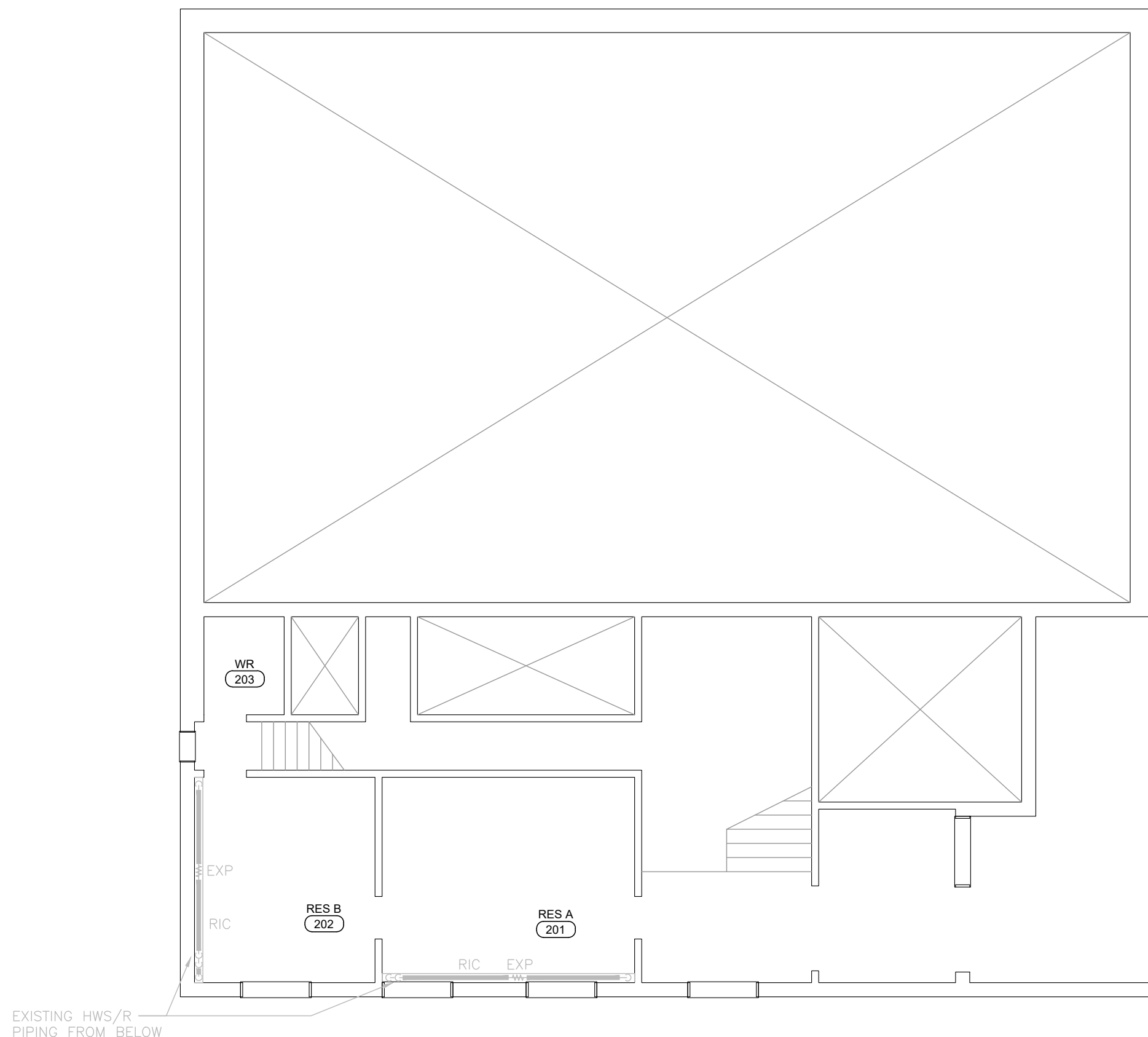
GROUND FLOOR BLOCK A PART PLAN – DEMOLITION  
SCALE: 1:100

#### GENERAL DEMOLITION NOTES

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
- NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO STRUCTURE.
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

#### SPECIFIC DEMOLITION NOTES

- A. OPENING REQUIRED UNDER WINDOW FOR INSTALL. OF NEW SUPPLY AIR LOUVER. SHORING & LINTEL REQUIRED (SEE STRUCTURAL DRAWINGS). SEE MECHANICAL.
- B. EXISTING SECTION OF RADIANT HEATING CABINET TO BE REMOVED COMPLETE. MODIFY CABINET TO ACCOMMODATE NEW UNIT VENTILATOR.
- C. EXISTING ISOLATION, BALANCE AND CONTROL VALVES IN MILLWORK TO BE REMOVED COMPLETE AND REPLACED.
- D. MODIFY EXISTING RADIANT HEATER PIPING. PREPARE TO ROUTE THRU PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. SEE DETAILS.
- E. EXISTING EXHAUST ARE GRILLES AND ASSOCIATED DUCTWORK TO REMAIN.
- F. CUT EXISTING HWS/R AND PREPARE FOR NEW CONNECTION.
- G. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. PROVIDE NEW DDC THERMOSTAT & CONTROL WIRING.
- H. PNEUMATIC THERMOSTAT TO BE REMOVED. CAP EXISTING PNEUMATIC PIPE.
- J. EXISTING ISOLATION, BALANCE & CONTROL VALVES IN CEILING TO BE REMOVED COMPLETE AND REPLACED.
- K. EXISTING ISOLATION & BALANCE VALVES IN CEILING TO BE REMOVED COMPLETE AND REPLACED. NO CONTROL HEATING RUNS WILD.
- L. EXISTING VALVES SERVING RADIANT HEATERS ON FLOOR ABOVE TO BE REMOVED COMPLETE AND REPLACED.
- M. EXISTING ISOLATION, BALANCE & CONTROL VALVES IN RADIANT HEATING CABINET TO BE REMOVED COMPLETE AND REPLACED.
- N. REMOVE EXISTING HYDRONIC MAINS AS SHOWN. PREPARE FOR CONNECTION OF NEW MAINS PIPED INTO MECHANICAL ROOM. SEE RENO DRAWINGS.

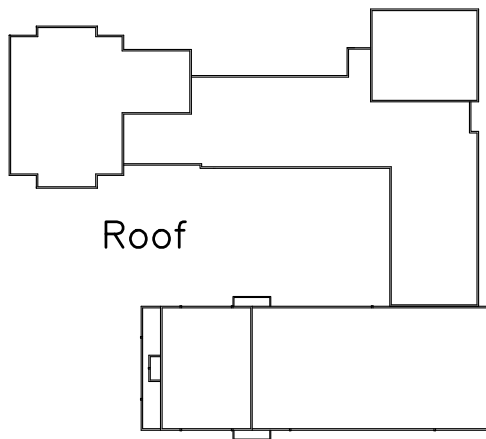


2ND FLOOR PART PLAN – DEMOLITION  
SCALE: 1:100

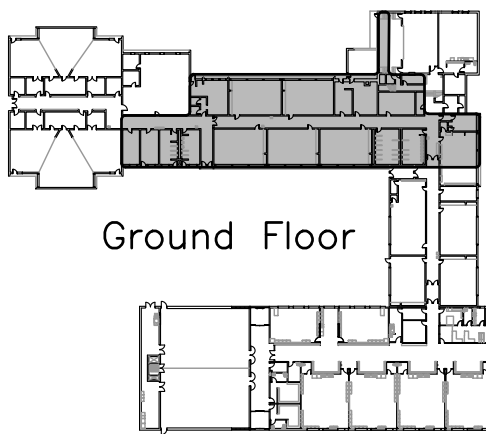
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Roof



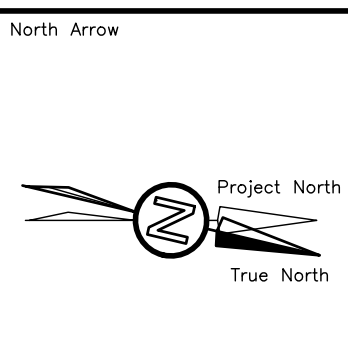
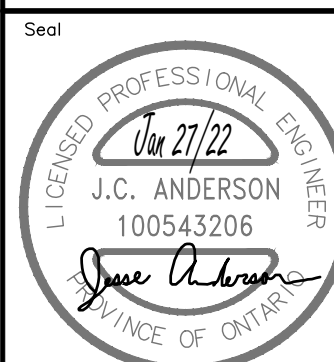
Level 2



Ground Floor



Key Plan



Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

Sheet Title  
**GROUND & 2ND FLOOR  
BLOCK A PART PLANS  
HVAC DEMOLITION**

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Project No. 21047	Drawing No. <b>M201</b>	

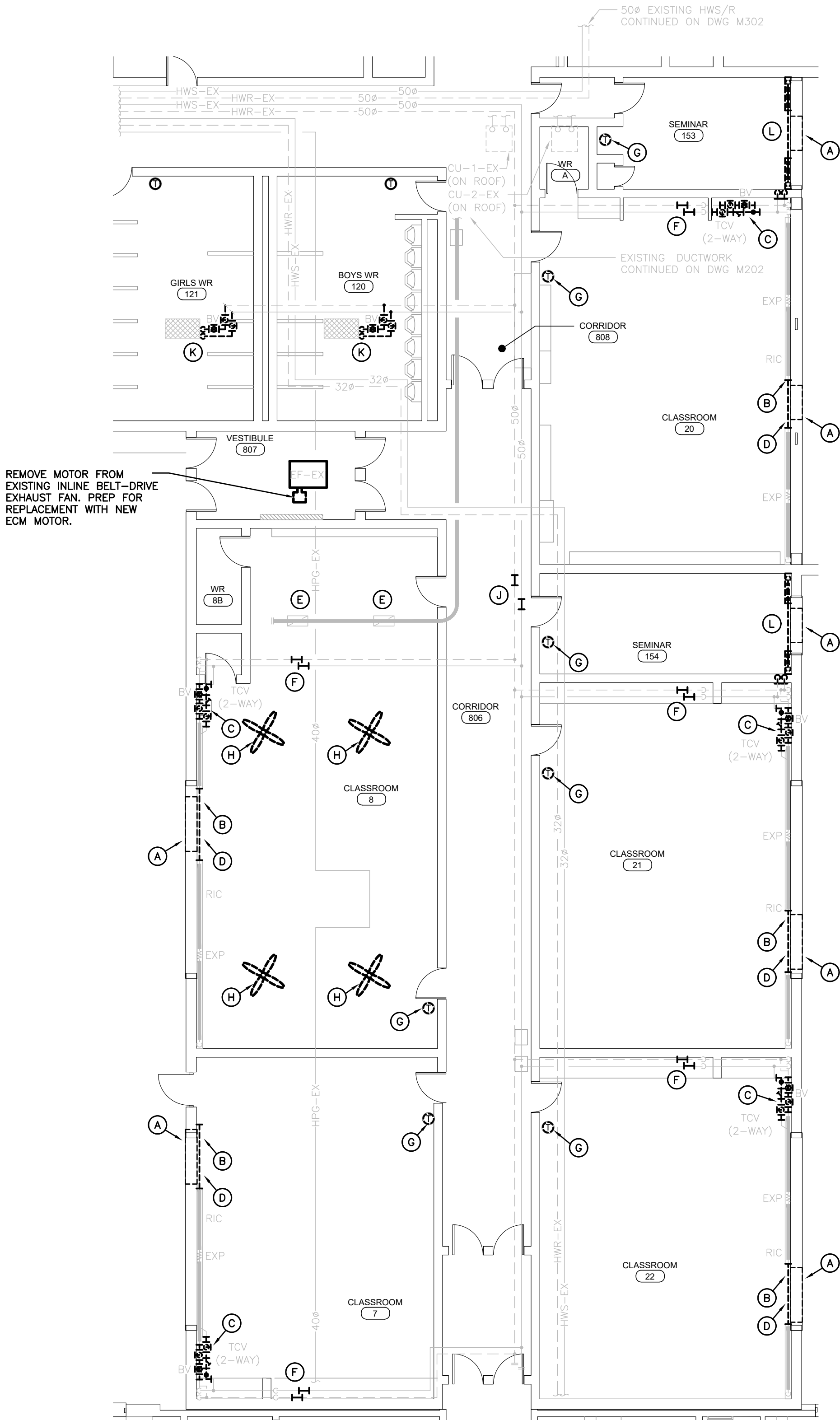


GENERAL DEMOLITION NOTES

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
- NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO STRUCTURE.
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

SPECIFIC DEMOLITION NOTES

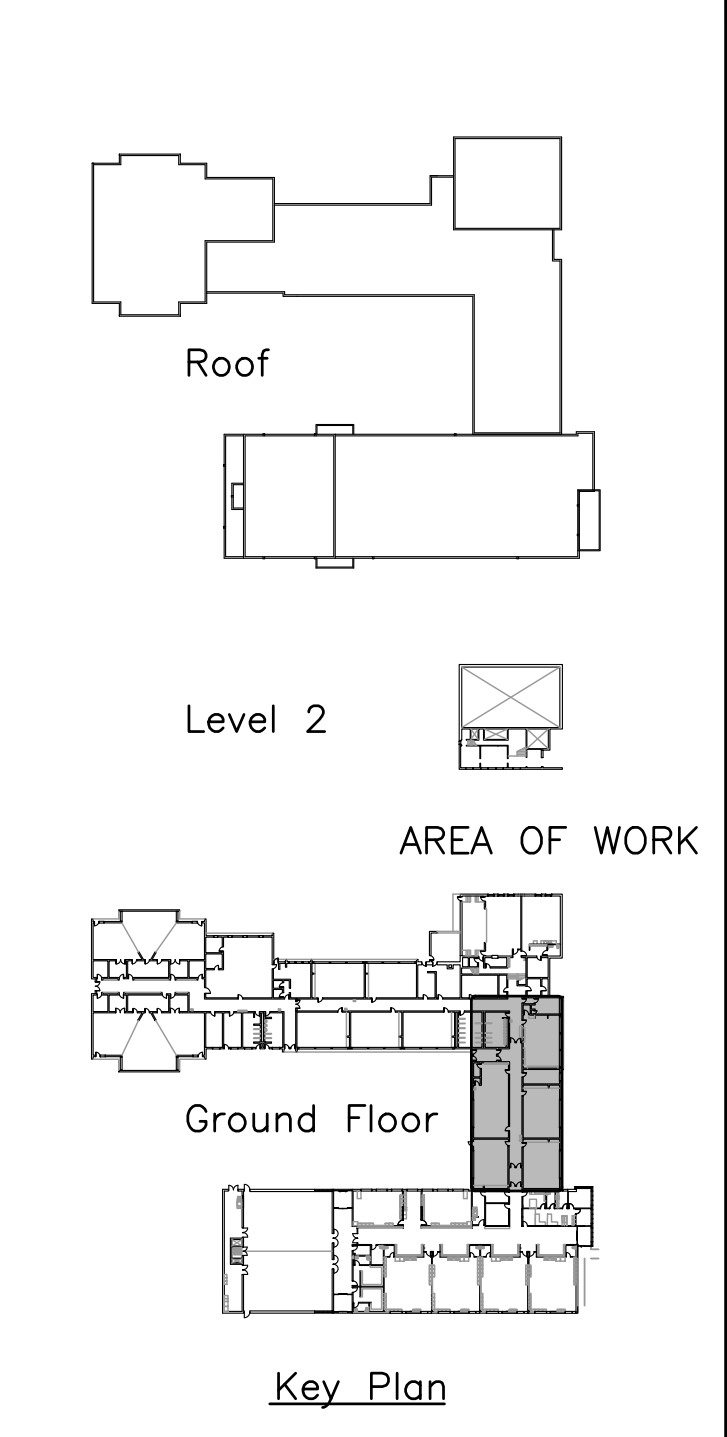
- A. OPENING REQUIRED UNDER WINDOW FOR INSTALL OF NEW SUPPLY AIR LOUVER. SHORING & LINTEL REQUIRED (SEE STRUCTURAL DRAWINGS). SEE MECHANICAL.
- B. EXISTING SECTION OF RADIANT HEATING CABINET TO BE REMOVED COMPLETE. MODIFY CABINET TO ACCOMMODATE NEW UNIT VENTILATOR.
- C. EXISTING ISOLATION, BALANCE AND CONTROL VALVES IN RADIANT HEATING CABINET TO BE REMOVED COMPLETE AND REPLACED.
- D. MODIFY EXISTING RADIANT HEATER PIPING. PREPARE TO ROUTE THRU PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. SEE DETAILS.
- E. EXISTING EXHAUST ARE GRILLES AND ASSOCIATED DUCTWORK TO REMAIN.
- F. CUT EXISTING HWS/R AND PREPARE FOR NEW CONNECTION.
- G. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. PROVIDE NEW DDC THERMOSTAT & CONTROL WIRING.
- H. REMOVE COMPLETE EXISTING DE-STRATIFICATION FAN. TURN OVER IN EXISTING OPERABLE CONDITION TO WRDSB FOR INSTALL IN OTHER CLASSROOM.
- J. CUT IN WELLS FOR NEW DIFFERENTIAL PRESSURE SENSOR.
- K. EXISTING ISOLATION AND BALANCE VALVES AT CEILING TO BE REMOVED COMPLETE AND REPLACED.
- L. REMOVE EXISTING RADIANT HEATER COMPLETE. RADIANT HEATER WILL BE REPLACED WITH UNIT VENTILATOR.



GROUND FLOOR BLOCK B PART PLAN – DEMOLITION  
SCALE: 1:100

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1	21.12.21	ISSUED FOR 99% TENDER REVIEW	JA
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Seal

North Arrow

Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

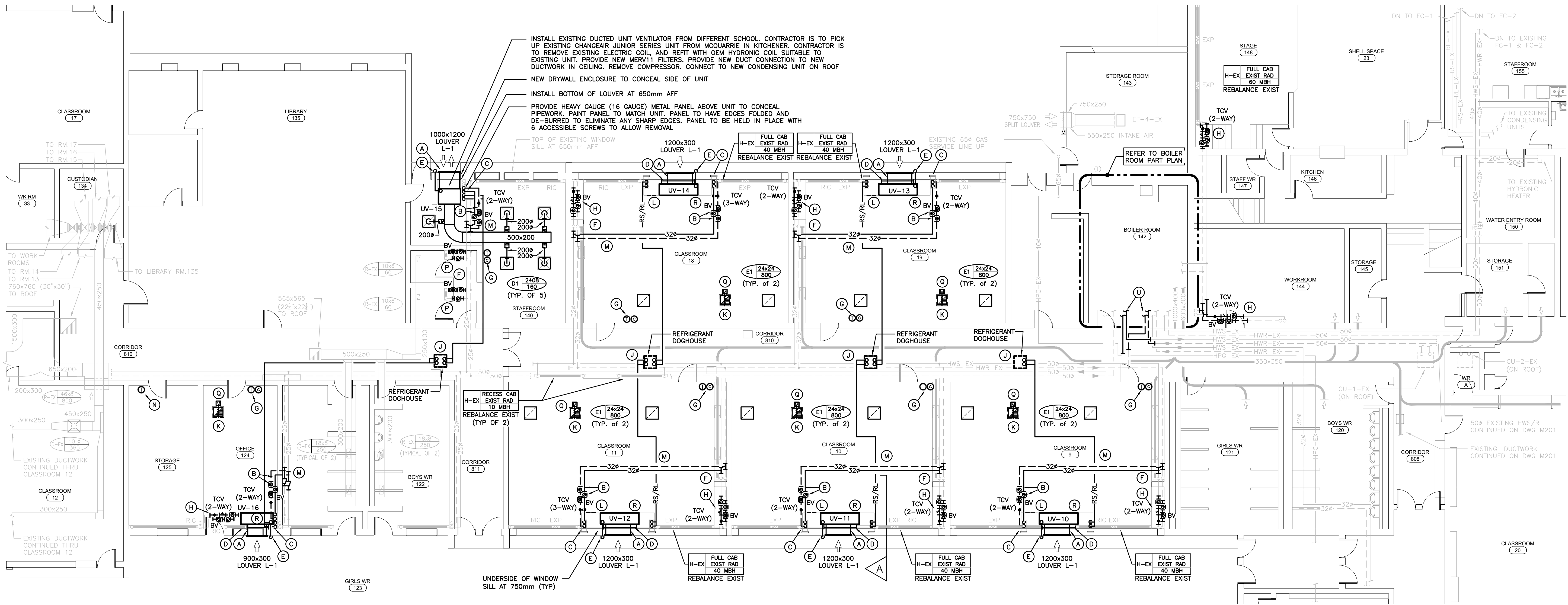
Sheet Title  
**GROUND FLOOR  
BLOCK B PART PLAN  
HVAC DEMOLITION**

**MECHANICAL | ELECTRICAL | AQUATIC**

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Project No. <b>21047</b>	Drawing No. <b>M202</b>
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GROUND FLOOR BLOCK A PART PLAN – RENOVATION  
SCALE: 1:100

#### GENERAL RENOVATION NOTES

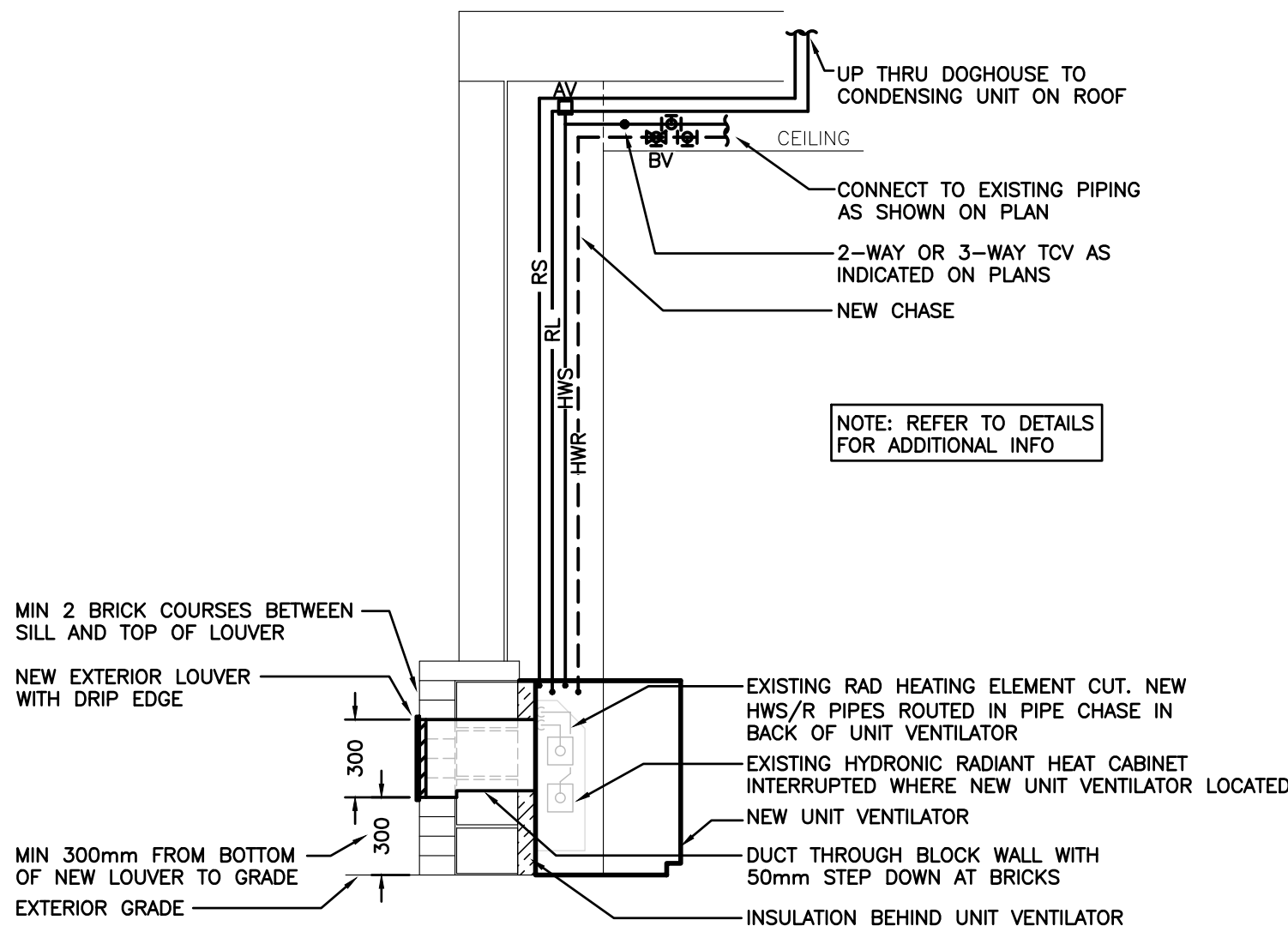
- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
- NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO STRUCTURE.
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

#### DYNAMIC BALANCING

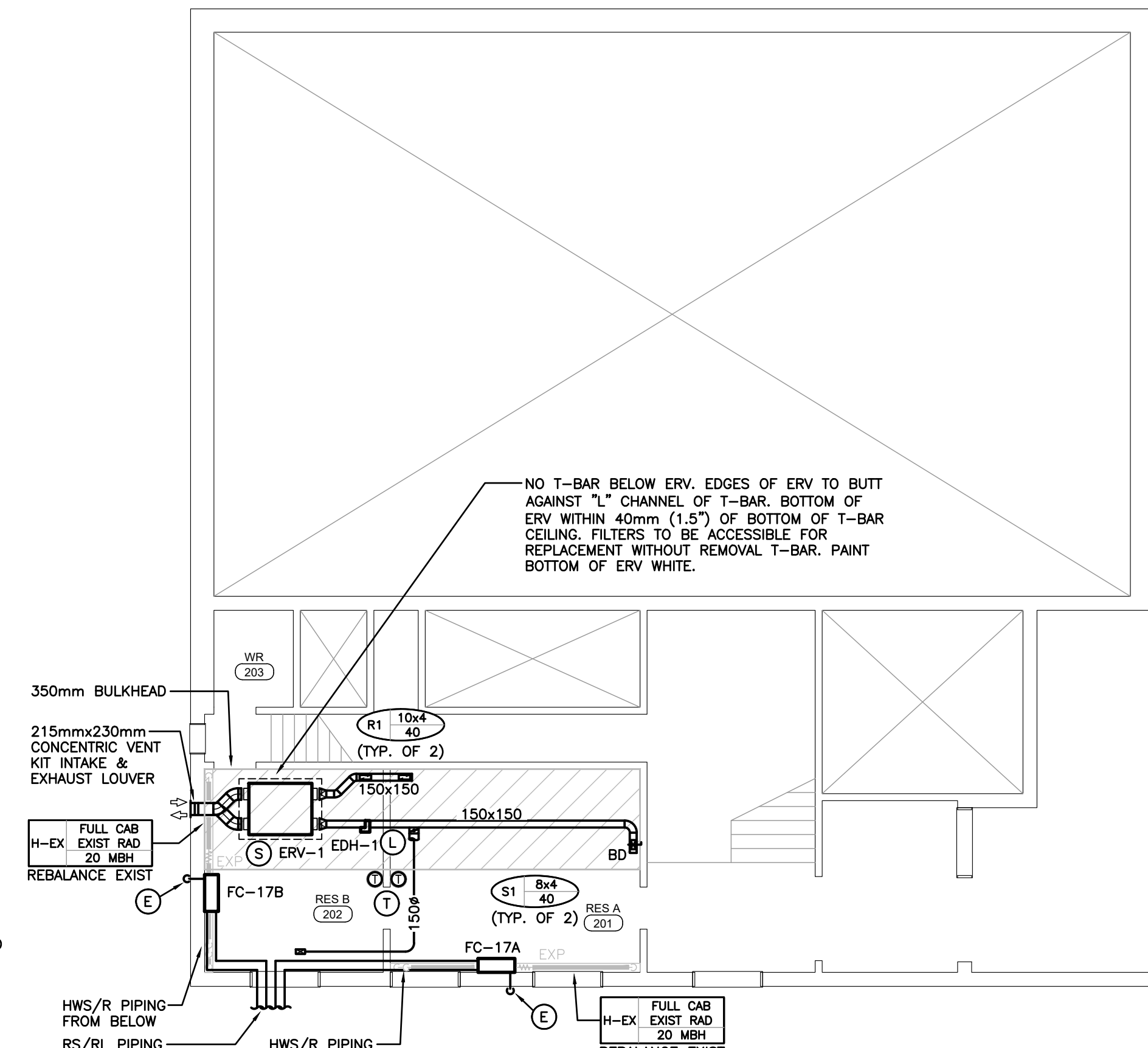
- THE HYDRONIC SYSTEM CONNECTED TO PUMP P-4 IS SHALL BE DYNAMICALLY BALANCED. REFER TO SHEET M101 FOR ADDITIONAL DYNAMIC BALANCING REQUIREMENTS.

#### SPECIFIC RENOVATION NOTES

- NEW INTAKE LOUVER C/W HEAVY DUTY LATTICE GRILLE. PROVIDE NEW OPENING TO SUIT. PROVIDE NEW LINTEL (PER STRUCTURAL).
- CONNECT NEW 32# HWS&R PIPING TO NEW UNIT VENTILATOR C/W NEW ISOLATION BALL VALVES, BALANCING VALVE, TCV, UNIONS, & STRAINER. CONNECT NEW RS/RL PIPING TO NEW UNIT VENTILATOR.
- NEW HWS&R AND RL&RS PIPING DOWN FROM CEILING TO MILLWORK IN GWB CHASE. ROUTE TO UNIT VENTILATOR. SEE DETAILS.
- MODIFY EXISTING RADIANT HEATER PIPING. ROUTE THRU PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. SEE DETAILS.
- 25# UNIT VENTILATOR CONDENSATE DRAIN ROUTED THRU WALL TO EXTERIOR. SEE DETAILS.
- CONNECT NEW HWS/R PIPING TO EXISTING.
- NEW DDC THERMOSTAT AND CO2 SENSOR. CONTROL WIRING TO CEILING IN PVC WIRE MOULD.
- PROVIDE NEW ISOLATION VALVES, STRAINER, TCV, BALANCE VALVE AND UNIONS AND RECONNECT TO EXISTING RADIANT HEATER. TCV TO BE 2-WAY OR 3-WAY AS INDICATED ON PLANS.
- 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.
- 450x450 INSULATED OPEN END EXHAUST DUCT UP THRU ROOF. CENTRE DUCT THRU JOIST BAY. TERMINATE WITH GOOSENECK C/W BIRDSCREEN. REFER TO DETAIL.
- PROVIDE NEW ACCESS DOOR IN EXISTING CABINET OR NEW ARCHITECTURAL MILLWORK FOR ACCESS TO NEW AIR VENTS. NO ACCESS PANEL REQUIRED IF AIR VENTS ARE ACCESSIBLE THRU PANEL IN NEW UNIT VENTILATOR.
- INSTALL HWS/R AND RS/RL PIPING IN CEILING SPACE. HANG FROM STRUCTURE.
- REMOVE EXISTING PNEUMATIC THERMOSTAT. CAP PNEUMATIC PIPING. REPLACE WITH NEW DIGITAL THERMOSTAT.
- PROVIDE NEW ISOLATION & BALANCE VALVES AND RECONNECT TO EXISTING RADIANT HEATER. NO CONTROL HEATING RUNS WILD.
- INSULATED MOTORIZED DAMPER. INSTALL ACTUATOR INSIDE DUCT ACCESSIBLE FROM BELOW.
- ADJUST FEET OF UNIT VENTILATOR TO THAT TOP OF VENTILATOR IS FLUSH WITH ADJACENT NEW MILLWORK (BY ARCH). PROVIDE MIN R-10 INSULATION BETWEEN UNIT VENTILATOR & EXISTING UN-INSULATED WALL.
- ERV & EDH INSTALLED ABOVE DROPPED BULKHEAD. MAINTAIN ALL MANUFACTURER RECOMMENDED CLEARANCES.
- NEW DIGITAL THERMOSTAT. CONTROL WIRING TO CEILING IN PVC WIRE MOULD.
- CONNECT NEW HYDRONIC MAINS TO EXISTING AND ROUTE INTO BOILER ROOM FOR CONNECTION TO NEW PUMP PIPEWORK AS SHOWN.



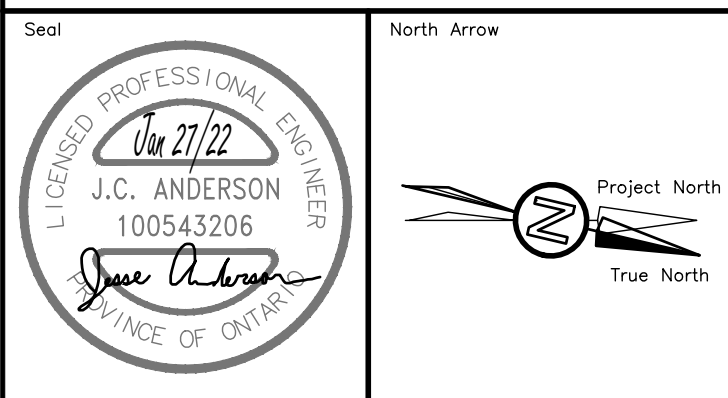
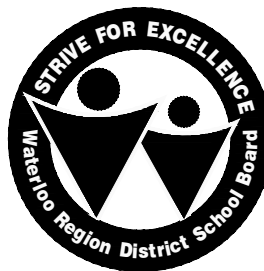
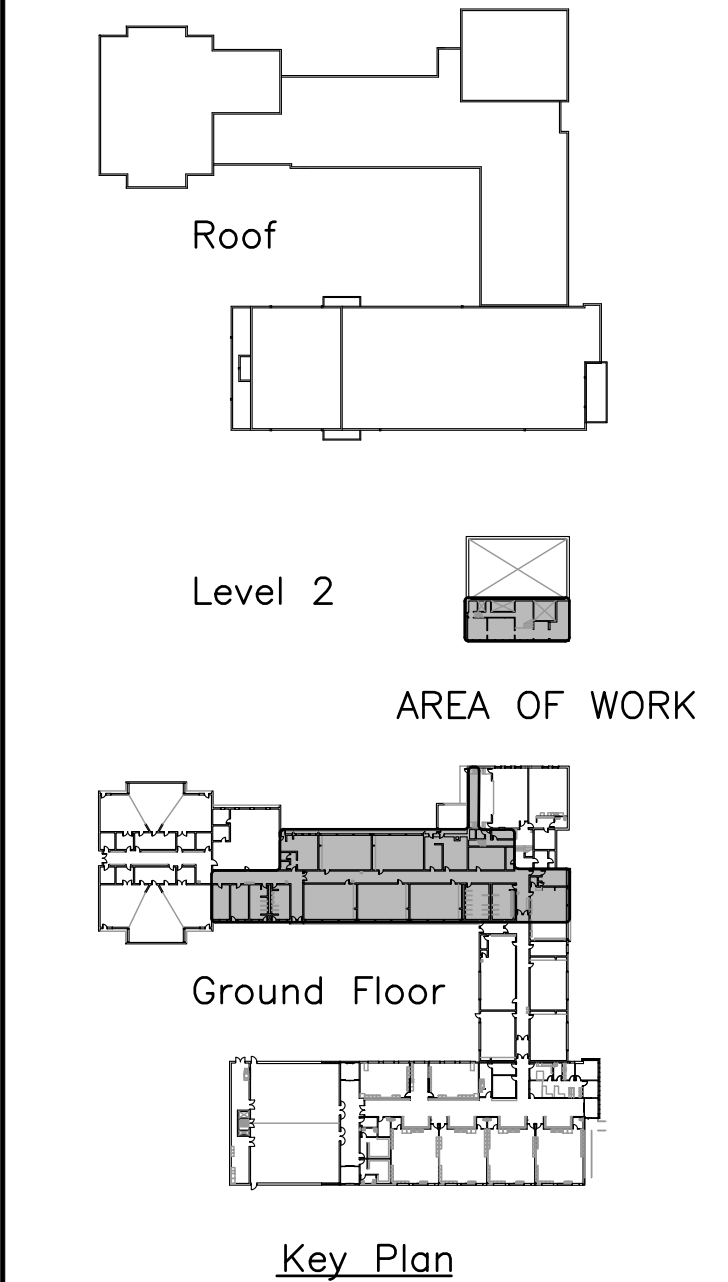
CLASSROOM UV – SECTION 'A'  
SCALE: 1:25



2ND FLOOR PART PLAN – RENOVATION  
SCALE: 1:100

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ISSUANCES			
No	DATE YY/MM/DD	DESCRIPTION	BY
1	21.12.21	ISSUED FOR 99% TENDER REVIEW	JA
2	21.01.27	ISSUED FOR PERMIT AND TENDER	JA



Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

Sheet Title  
**GROUND & 2ND FLOOR  
BLOCK A PART PLANS  
HVAC RENOVATION**

**DEI**  
**Consulting Engineers**  
MECHANICAL | ELECTRICAL | AQUATIC  
55 Northland Road, Waterloo, ON N2V 1Y8  
Phone: 519-725-3555  
Website: deiassociates.ca

Drawn by HAD	Checked by JA	Approved by JA
Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022

Project No.  
**21047**  
Drawing No.  
**M301**

### GENERAL RENOVATION NOTES

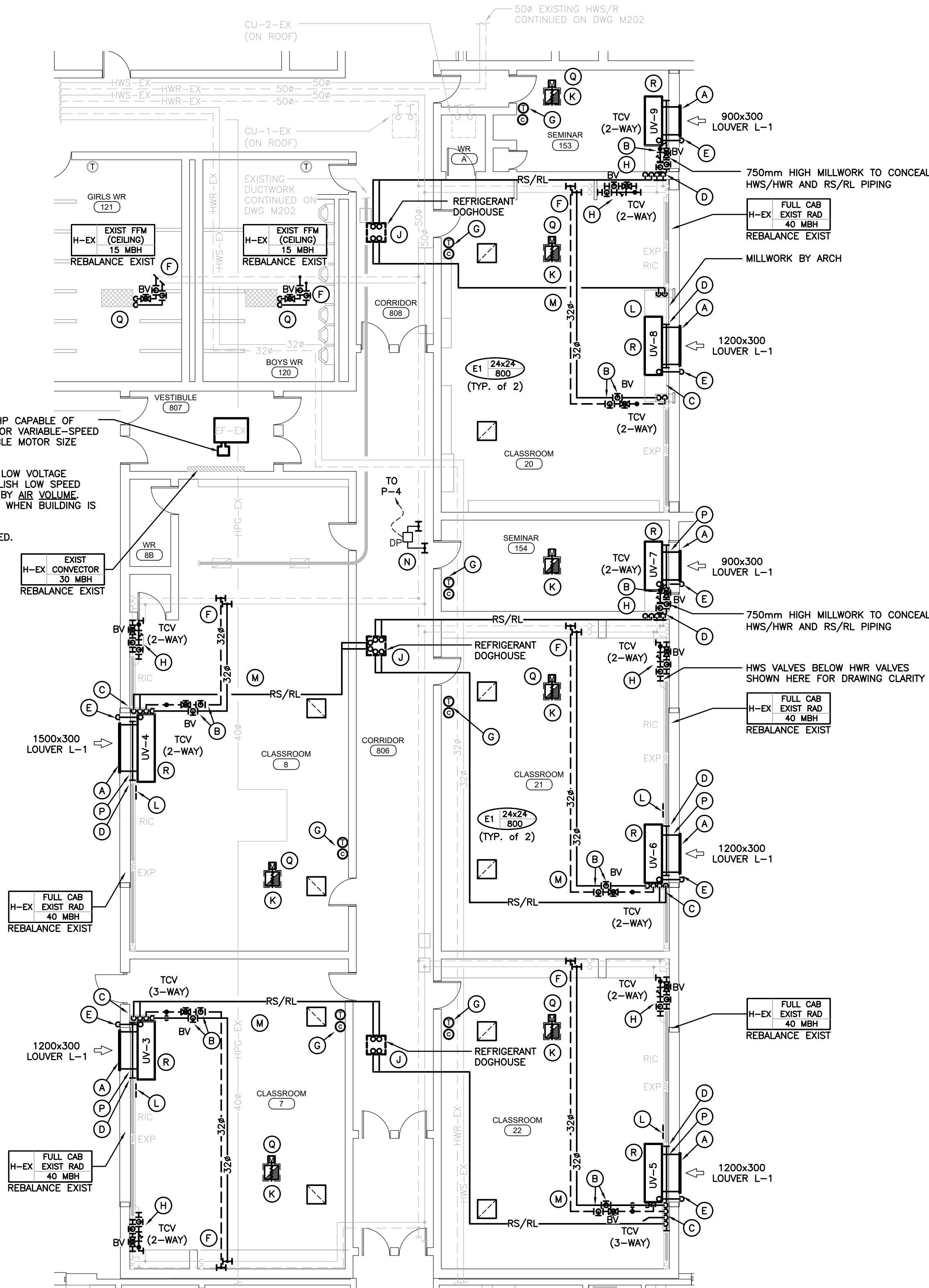
- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
- NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO STRUCTURE.
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm 10^{\circ}-0^{\circ}$  IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

### DYNAMIC BALANCING

- THE HYDRONIC SYSTEM CONNECTED TO PUMP P-4 IS SHALL BE DYNAMICALLY BALANCED. REFER TO SHEET M101 FOR ADDITIONAL DYNAMIC BALANCING REQUIREMENTS.

### SPECIFIC RENOVATION NOTES

- NEW INTAKE LOUVER C/W HEAVY DUTY LATTICE GRILLE. PROVIDE NEW OPENING TO SUIT. PROVIDE NEW LINTEL (PER STRUCTURAL).
- CONNECT NEW 32# HWS&R PIPING TO NEW UNIT VENTILATOR C/W NEW ISOLATION BALL VALVES, BALANCING VALVE, TCV, UNIONS, & STRAINER. CONNECT NEW RS/RL PIPING TO NEW UNIT VENTILATOR.
- NEW HWS&R AND RL&RS PIPING DOWN FROM CEILING TO MILLWORK IN GWB CHASE. ROUTE TO UNIT VENTILATOR. SEE DETAILS.
- MODIFY EXISTING RADIANT HEATER PIPING. ROUTE THRU INSULATED PIPE CHASE IN BACK OF NEW UNIT VENTILATOR. PROVIDE PIPE INSULATION IF CHASE IS UNINSULATED. SEE DETAILS.
- 25# UNIT VENTILATOR CONDENSATE DRAIN ROUTED THRU WALL TO EXTERIOR. SEE DETAILS.
- CONNECT NEW HWS/R PIPING TO EXISTING.
- NEW DDC THERMOSTAT AND CO2 SENSOR. CONTROL WIRING TO CEILING IN PVC WIRE MOULD.
- PROVIDE NEW ISOLATION VALVES, STRAINER, TCV, BALANCE VALVE AND UNIONS AND RECONNECT TO EXISTING RADIANT HEATER. TCV TO BE 2-WAY OR 3-WAY AS INDICATED ON PLANS. PROVIDE NEW ACCESS DOOR IN RADIANT HEATER COVER IF NONE EXISTING, OR IN SMALL SEMINAR ROOMS.
- 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.
- 450x450 INSULATED OPEN END EXHAUST DUCT UP THRU ROOF. CENTRE DUCT THRU JOIST BAY. TERMINATE WITH GOOSENECK C/W BIRDSCREEN. REFER TO DETAIL.
- PROVIDE NEW ACCESS DOOR IN EXISTING CABINET OR NEW ARCHITECTURAL MILLWORK FOR ACCESS TO NEW AIR VENTS. NO ACCESS PANEL REQUIRED IF AIR VENTS ARE ACCESSIBLE THRU PANEL IN NEW UNIT VENTILATOR.
- INSTALL HWS/R AND RS/RL PIPING IN CEILING SPACE. HANG FROM STRUCTURE.
- NEW DIFFERENTIAL PRESSURE SENSOR FOR CONTROL OF P-4.
- PROVIDE NEW ISOLATION AND BALANCE VALVES AT CEILING AND CONNECT TO EXISTING CABINET UNIT HEATER. HEAT CONTROL BY FAN OPERATION.
- INSULATED MOTORIZED DAMPER. INSTALL ACTUATOR INSIDE DUCT ACCESSIBLE FROM BELOW.
- UNIT VENTILATOR OFFSET FROM WALL TO AVOID EXISTING CONCRETE WINDOW SHELF. PROVIDE MIN 6-10 INSULATION BETWEEN UNIT VENTILATOR & EXISTING UN-INSULATED WALL. ADJUST FEET OF UNIT VENTILATOR SO THAT TOP OF VENTILATOR IS FLUSH WITH WINDOW SHELF.

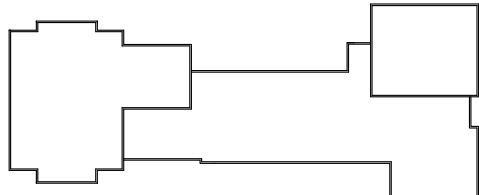


GROUND FLOOR BLOCK B PART PLAN – RENOVATION  
SCALE: 1:100

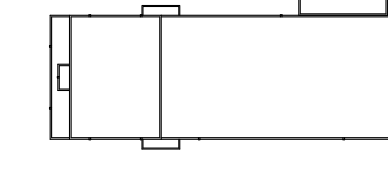
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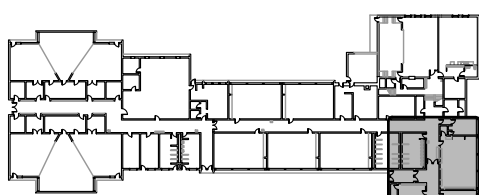


Roof

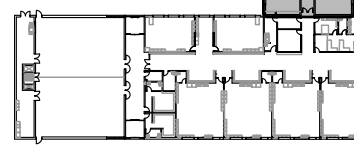


Level 2

### AREA OF WORK



Ground Floor



Key Plan



Seal

North Arrow

LICENCED PROFESSIONAL ENGINEER  
J.C. ANDERSON  
100543206  
Jesse Anderson  
PROVINCE OF ONTARIO

Project North  
True North

Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

Sheet Title  
**GROUND FLOOR  
BLOCK B PART PLAN  
HVAC RENOVATION**

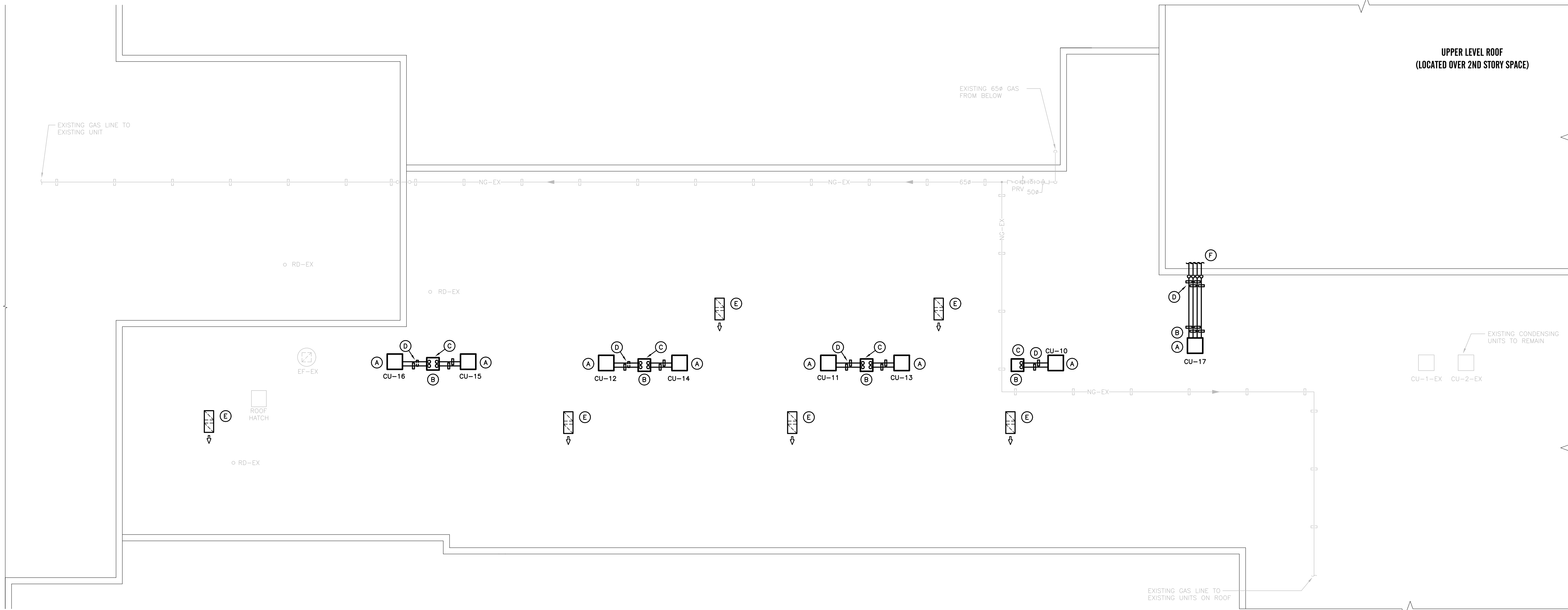
**Consulting Engineers**  
**MECHANICAL | ELECTRICAL | AQUATIC**  
55 Northland Road, Waterloo, ON N2V 1Y8  
Phone: 519-725-3555  
Website: deiassociates.ca

Drawn by HAD	Checked by JA	Approved by JA
Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022

Project No.  
**21047**

Drawing No.  
**M302**





ROOF BLOCK A PART PLAN  
SCALE: 1:100

#### GENERAL DEMOLITION NOTES

- ROOFTOP EQUIPMENT TO BE MINIMUM 3m (10ft) FROM EDGE OF ROOF.
- NEW PIPEWORK TO BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PIPING TO BE RUN IN NEAT, STRAIGHT LINES PARALLEL OR PERPENDICULAR TO STRUCTURE.
- MILLWORK TO BE MODIFIED IN NEAT MANNER TO SATISFACTION OF CONSULTANTS & OWNER.
- SHEET METAL SHROUDS, RADIATOR END CAPS, OR INFILL BESIDE UNIT HEATERS SHALL BE PAINTED TO MATCH ROOM COLOURS.
- HOLES IN EXTERIOR WALL FOR NEW VENTILATOR OPENING SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF EXTERIOR WALL.
- PROVIDE INSULATION BEHIND NEW UNIT VENTILATORS IN LOCATIONS WHERE EXISTING INSULATION IS NOT PRESENT.
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm$  10'-0" IN EACH DIRECTION.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

#### SPECIFIC RENOVATION NOTES

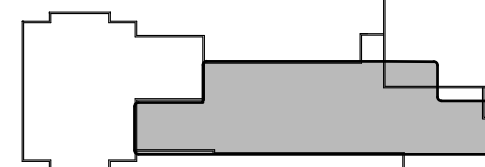
- A. CONDENSING UNIT ON CONCRETE PAVER/INSULATION ON ROOF. ENSURE CONDENSING UNITS ARE INSTALLED MIN. 1000mm FROM ROOF VALLEY.
- B. GENERAL CONTRACTOR TO PATCH, REPAIR MAKE ROOFING WEATHERPROOF AND ENSURE MATERIALS USED ARE COMPATIBLE WITH EXISTING.
- C. RS/RL PIPING DN IN DOGHOUSE & RUN ALONG ROOF TO NEW CONDENSING UNIT. ENSURE DOGHOUSE IS INSTALLED MIN. 1000mm FROM ROOF VALLEY. NUMBER OF CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS.
- D. PROVIDE PIPE SUPPORT.
- E. 450x450 EXHAUST GOOSENECK C/W BIRDSCREEN. REFER TO DETAIL. GOOSENECK TERMINATION TO POINT IN EAST-FACING DIRECTION.
- F. RS/RL PIPING FROM PENTHOUSE FAN COIL & RUN ALONG ROOF TO NEW CONDENSING UNIT. NUMBER OF CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SECOND FLOOR PLAN FOR CONTINUATION.

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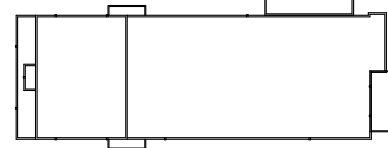
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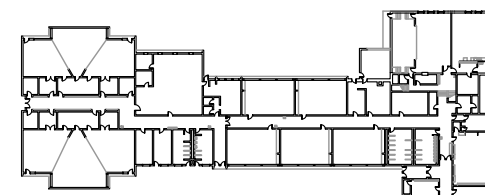
#### AREA OF WORK



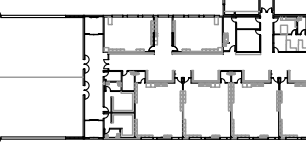
Roof



Level 2



Ground Floor



Key Plan



Seal

North Arrow

Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

Sheet Title  
**ROOF BLOCK A  
PART PLAN HEATING &  
VENTILATION RENOVATION**

**DEI**  
Consulting Engineers  
MECHANICAL | ELECTRICAL | AQUATIC  
55 Northland Road, Waterloo, ON N2V 1Y8  
Phone: 519-725-3555  
Website: deiassociates.ca

Drawn by HAD	Checked by JA	Approved by JA
Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022

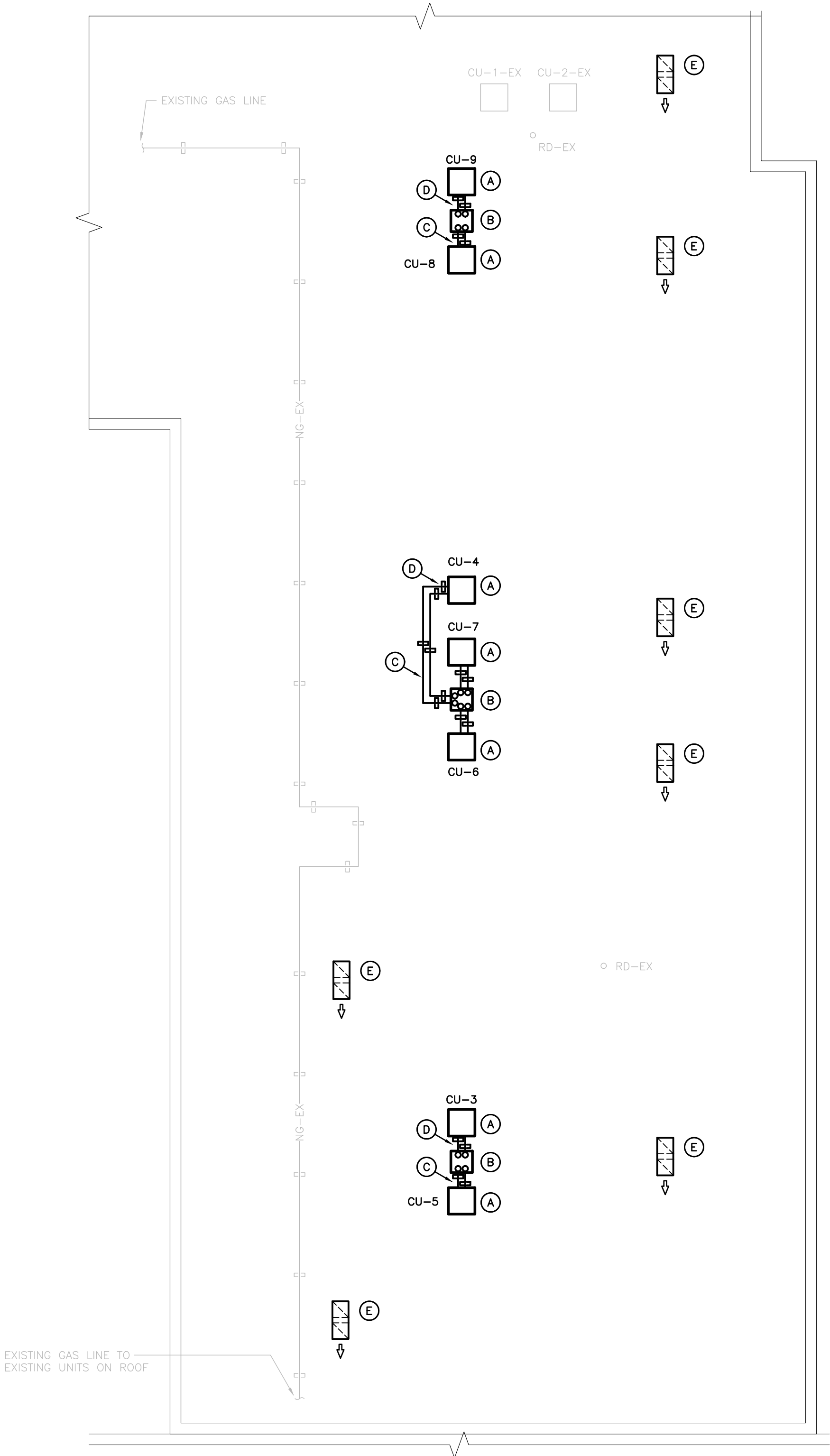
Project No. <b>21047</b>	Drawing No. <b>M401</b>
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GENERAL DEMOLITION NOTES

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SPECIFIC RENOVATION NOTES

- A. CONDENSING UNIT ON ELEVATED ZERO-PENETRATION STAND ON ROOF. ENSURE CONDENSING UNITS ARE INSTALLED MIN. 1000mm FROM ROOF VALLEY.
- B. GENERAL CONTRACTOR TO PATCH, REPAIR MAKE ROOFING WEATHERPROOF AND ENSURE MATERIALS USED ARE COMPATIBLE WITH EXISTING.
- C. RS/RL PIPING DN IN DOGHOUSE & RUN ALONG ROOF TO NEW CONDENSING UNIT. ENSURE DOGHOUSE IS INSTALLED MIN. 1000mm FROM ROOF VALLEY. NUMBER OF CIRCUITS AND SIZING AS PER MANUFACTURER'S RECOMMENDATIONS.
- D. PROVIDE PIPE SUPPORT.
- E. 450x450 EXHAUST GOOSENECK C/W BIRDSCREEN. REFER TO DETAIL. GOOSENECK TERMINATION TO POINT IN EAST-FACING DIRECTION.



ROOF BLOCK B PART PLAN  
SCALE: 1:100

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AREA OF WORK


Roof

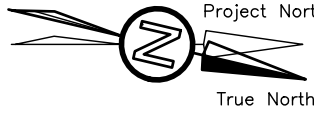
Level 2

Ground Floor

Key Plan







Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

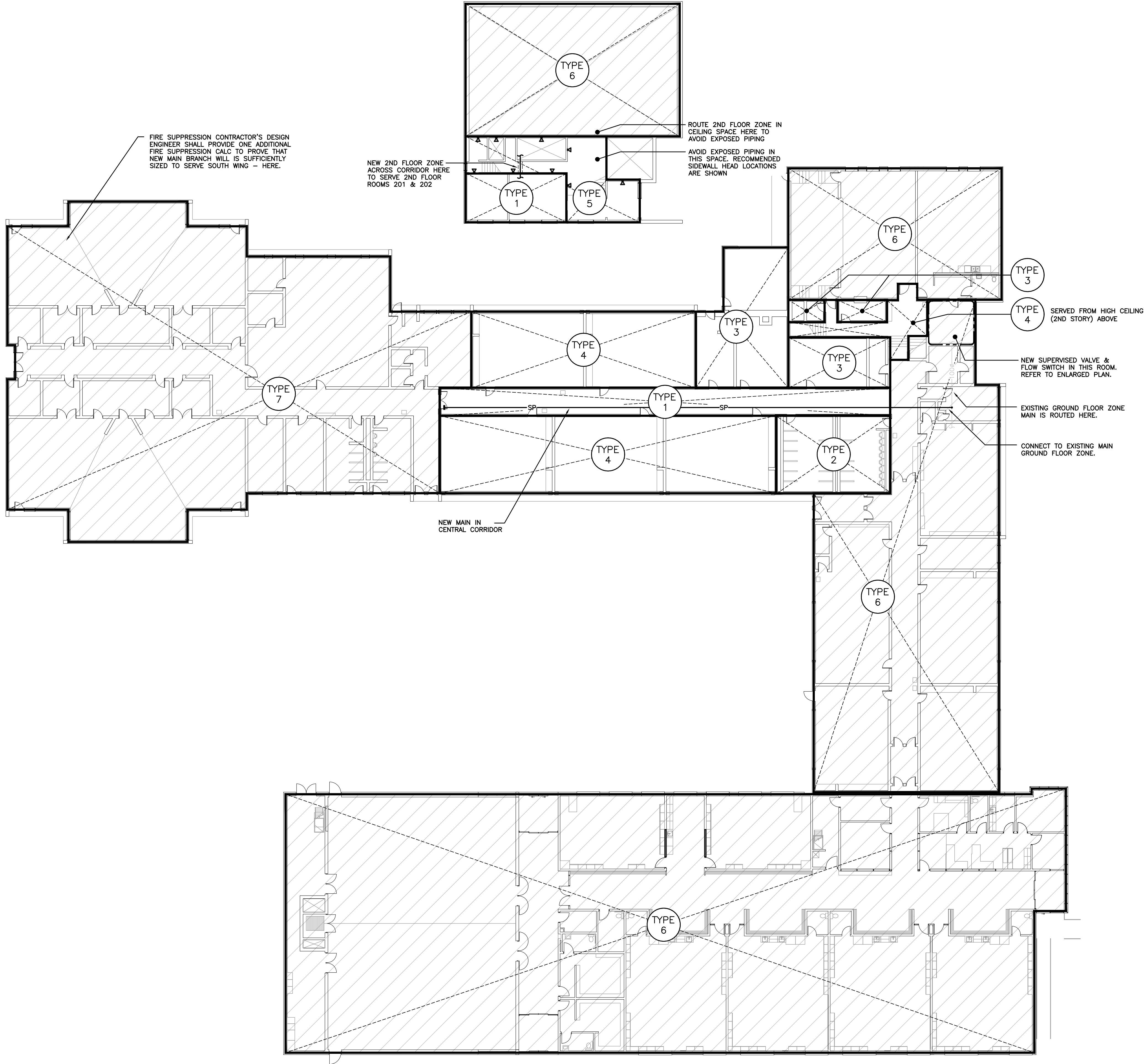
Sheet Title  
**ROOF BLOCK A  
PART PLAN HEATING &  
VENTILATION RENOVATION**



**Consulting Engineers**  
MECHANICAL | ELECTRICAL | AQUATIC  
55 Northland Road, Waterloo, ON N2V 1Y8  
Phone: 519-725-3555  
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Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022
Project No. 21047	Drawing No. <b>M402</b>	





GROUND FLOOR BLOCK A PART PLAN - RENOVATION  
SCALE: 1:200

### GENERAL SPRINKLER NOTES

- SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK. MARKED UP TENDER DRAWINGS ARE UNACCEPTABLE FOR SHOP DRAWINGS.
- ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 & 14 STANDARDS. ENSURE SPRINKLER & STANDPIPE SYSTEMS ARE INSTALLED TO NFPA 13 & 14 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1:100 SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
- CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
- PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:
  - PROVIDE UPRIGHT HEADS WITHIN 300mm OF EXPOSED DECK THROUGHOUT EXPOSED STRUCTURE AREAS. PROVIDE HEAD GUARDS IN MECH/ELEC RM, AREAS WHERE HEADS ARE BELOW 2.4m & STORAGE ROOMS.
  - PROVIDE CONCEALED HEADS IN ALL AREAS WITH A SUSPENDED CEILING.
- FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
- SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION.
- PROVIDE SPRINKLERS IN CONCEALED SPACES AS REQUIRED BY NFPA 13.
- LIMITED COMBUSTIBLE STRUCTURE ABOVE T-BAR CEILINGS. SPRINKLERS NOT REQUIRED ABOVE T-BAR CEILINGS.

### SPECIFIC SPRINKLER NOTES

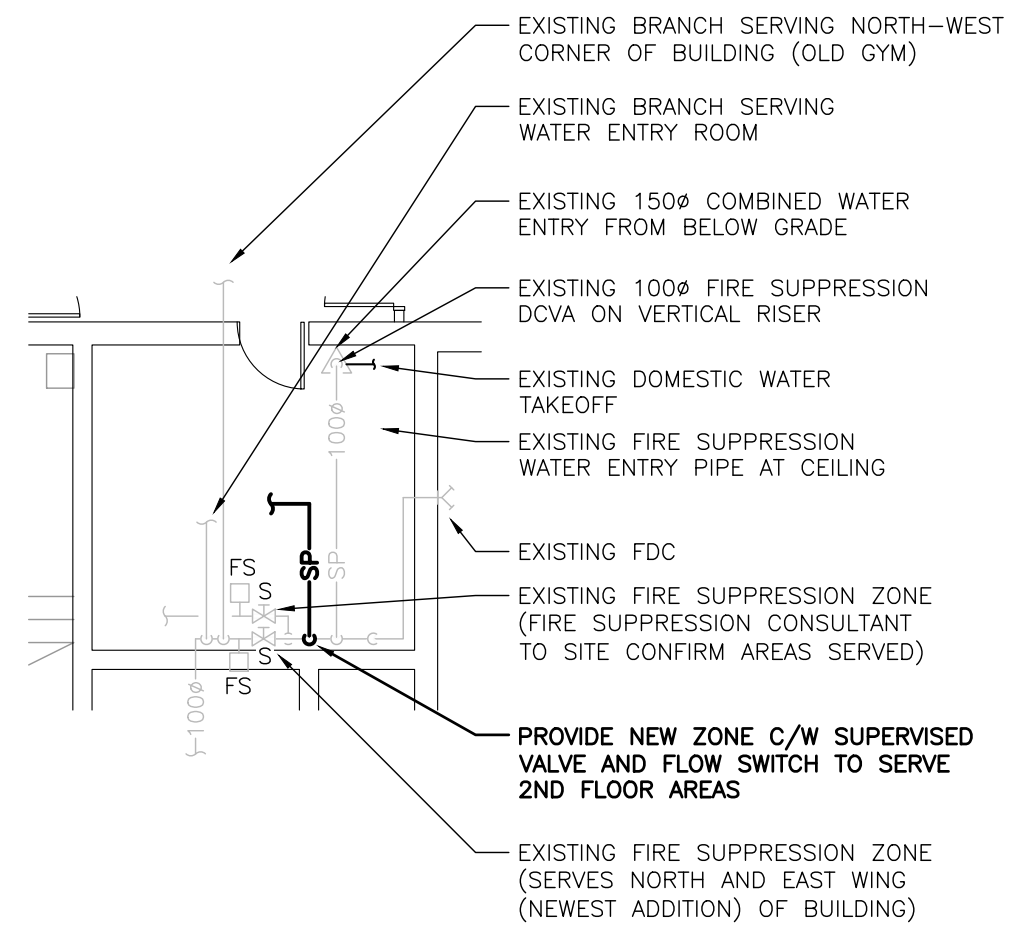
- EXISTING FIRE SUPPRESSION WATER ENTRY ROOM.
- EXISTING 100Ø FIRE SUPPRESSION MAIN SERVING NORTH AND EAST WINGS OF SCHOOL.

### SPRINKLER SCHEDULE

Type	Sprinkler Head	Colour	Remarks
1	CONCEALED PENDENT	WHITE	T-BAR CEILING
2	CONCEALED PENDENT	WHITE	GWB CEILING
3	EXPOSED UPRIGHT WITH GUARD	CHROME	OPEN CEILING
4	RECESSED PENDENT	WHITE	T-BAR CEILING
5	SIDEWALL	CHROME	THRU WALL FROM ADJACENT CEILING SPACE
6	EXISTING SPRINKLERS. NO NEW SCOPE IN THIS AREA.		
7	NO EXISTING SPRINKLERS. NO CURRENT SCOPE TO ADD SPRINKLERS IN THIS AREA.		

### ADDITIONAL CLAC

FIRE SUPPRESSION CONTRACTOR'S DESIGN ENGINEER SHALL PROVIDE ONE ADDITIONAL FIRE SUPPRESSION CALC TO PROVE THAT NEW MAIN BRANCH WILL IS SUFFICIENTLY SIZED TO SERVE SOUTH WING.

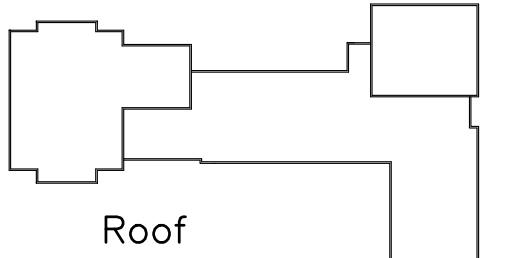


WATER ENTRY ROOM ENLARGED PLAN  
SCALE: 1:100

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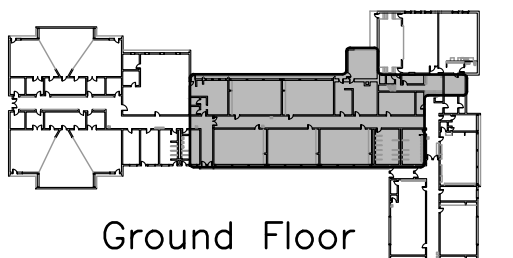
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Roof

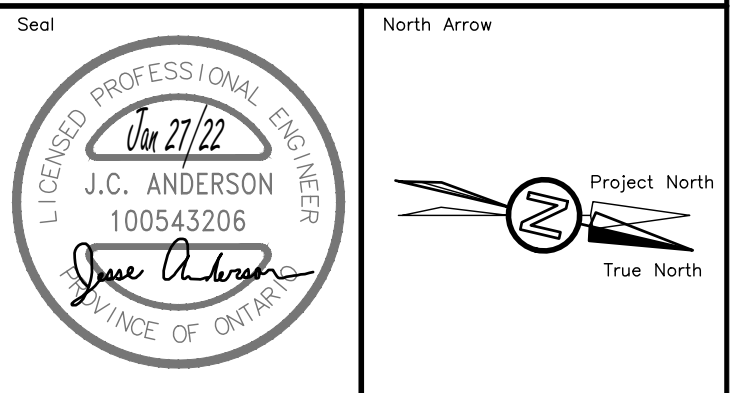
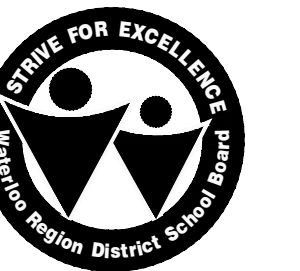
Level 2

AREA OF WORK



Ground Floor

Key Plan

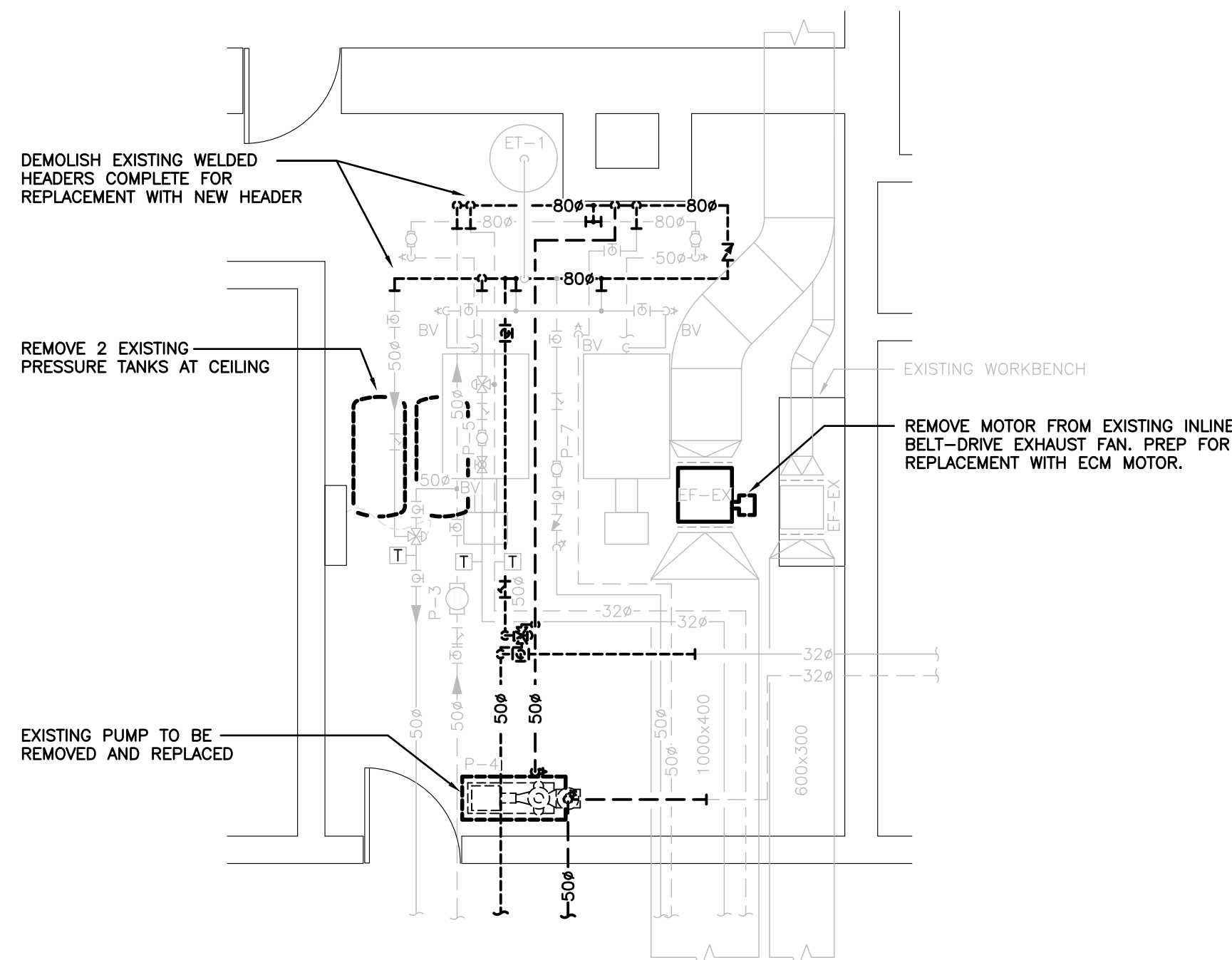


Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

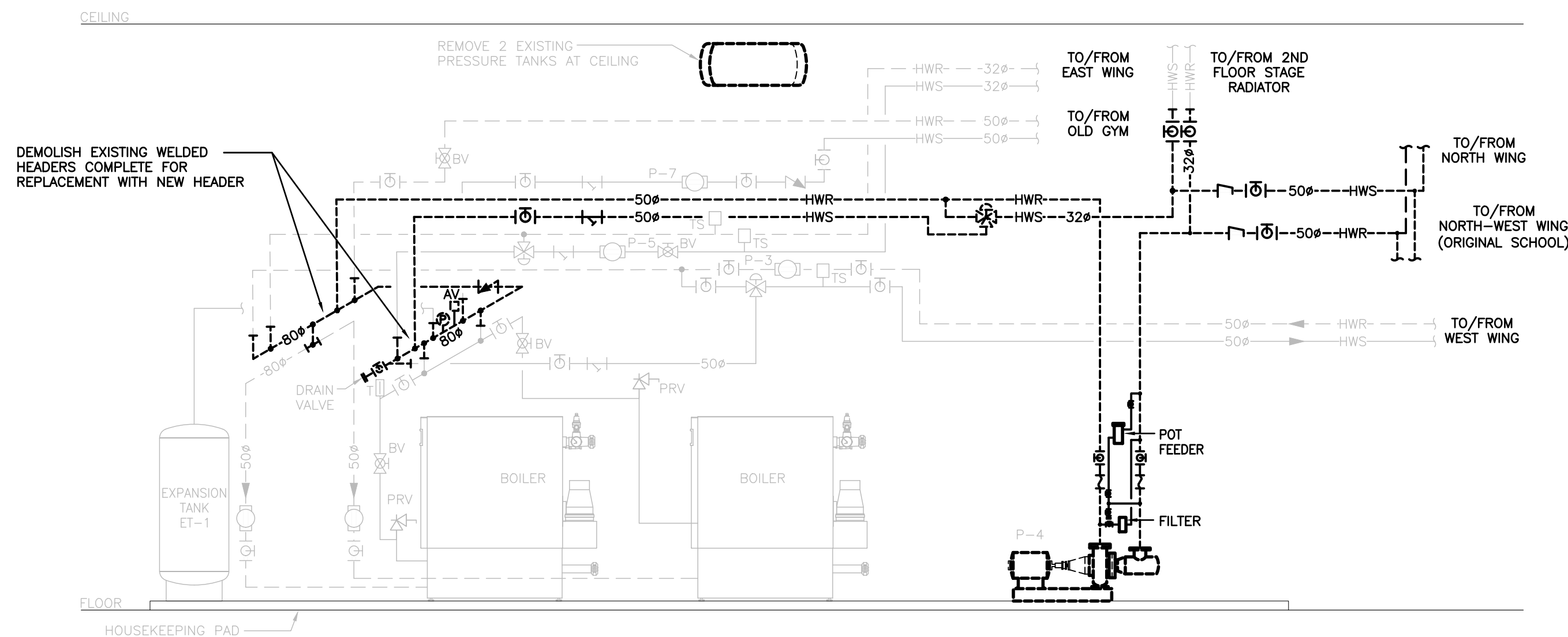
Sheet Title  
**GROUND & 2ND FLOOR  
FIRE SUPPRESSION PLAN**

**DEI**  
**Consulting Engineers**  
**MECHANICAL | ELECTRICAL | AQUATIC**  
55 Northland Road, Waterloo, ON N2V 1Y8  
Phone: 519-725-3555  
Website: deiassociates.ca

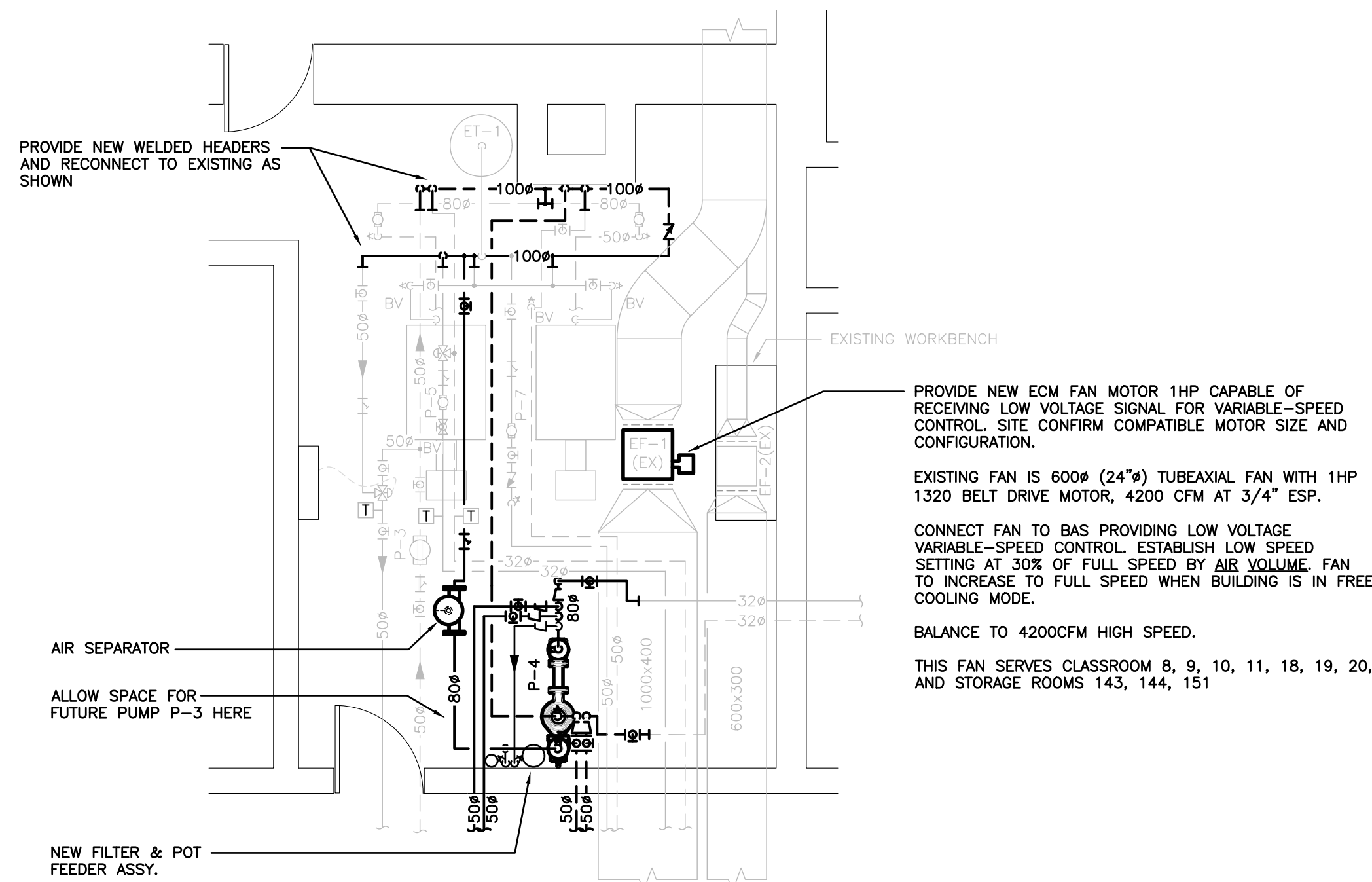
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Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022
Project No. 21047	Drawing No. M501	



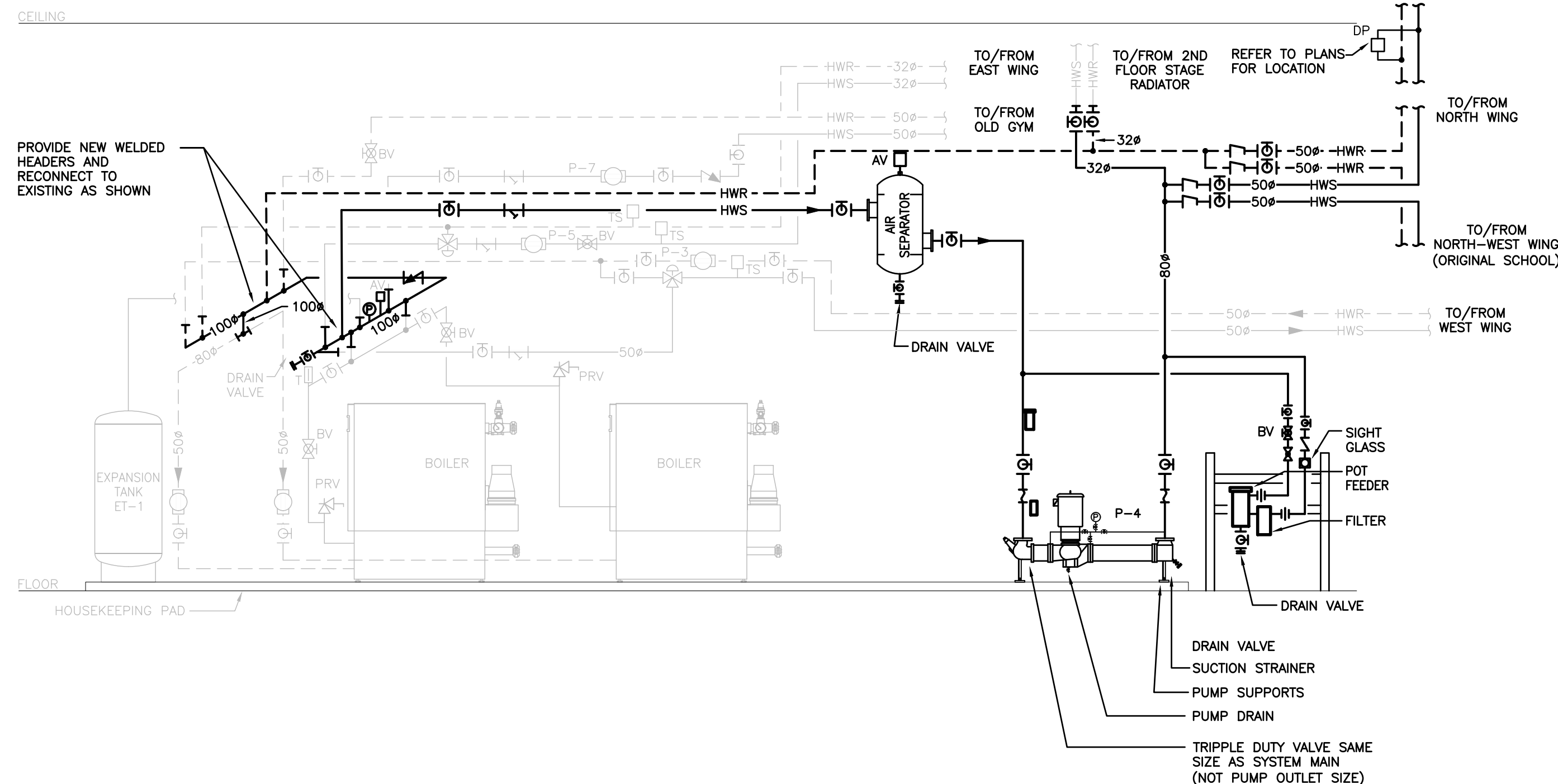
BOILER ROOM PART PLAN — DEMOLITION  
SCALE: 1:50



BOILER PIPING SCHEMATIC — DEMOLITION  
SCALE: NTS



BOILER ROOM PART PLAN — RENOVATION  
SCALE: 1:50

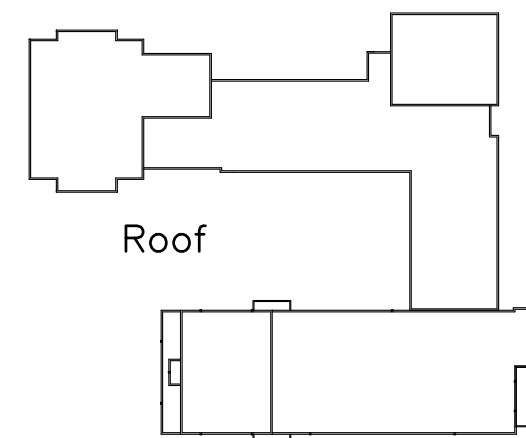


BOILER PIPING SCHEMATIC — RENOVATION  
SCALE: NTS

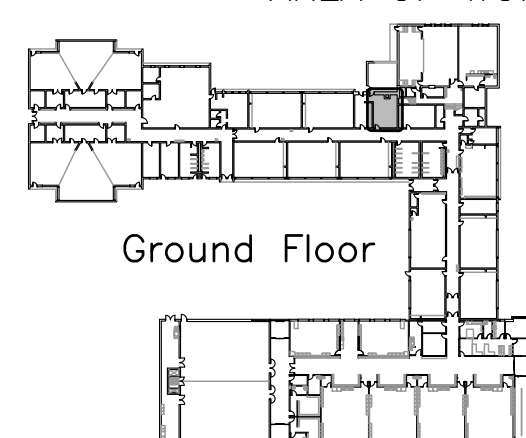
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#### ISSUANCES

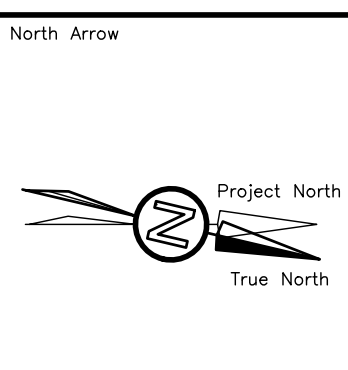
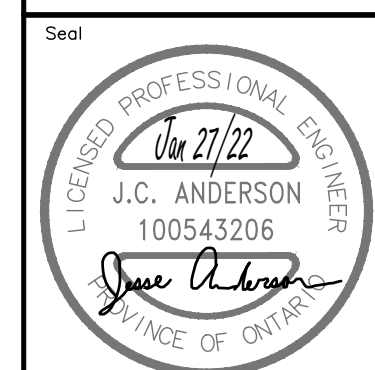
No	DATE YY.MM.DD	DESCRIPTION	BY
1	21.12.21	ISSUED FOR 99% TENDER REVIEW	JA
2	21.01.27	ISSUED FOR PERMIT AND TENDER	JA



#### AREA OF WORK



#### Key Plan



Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

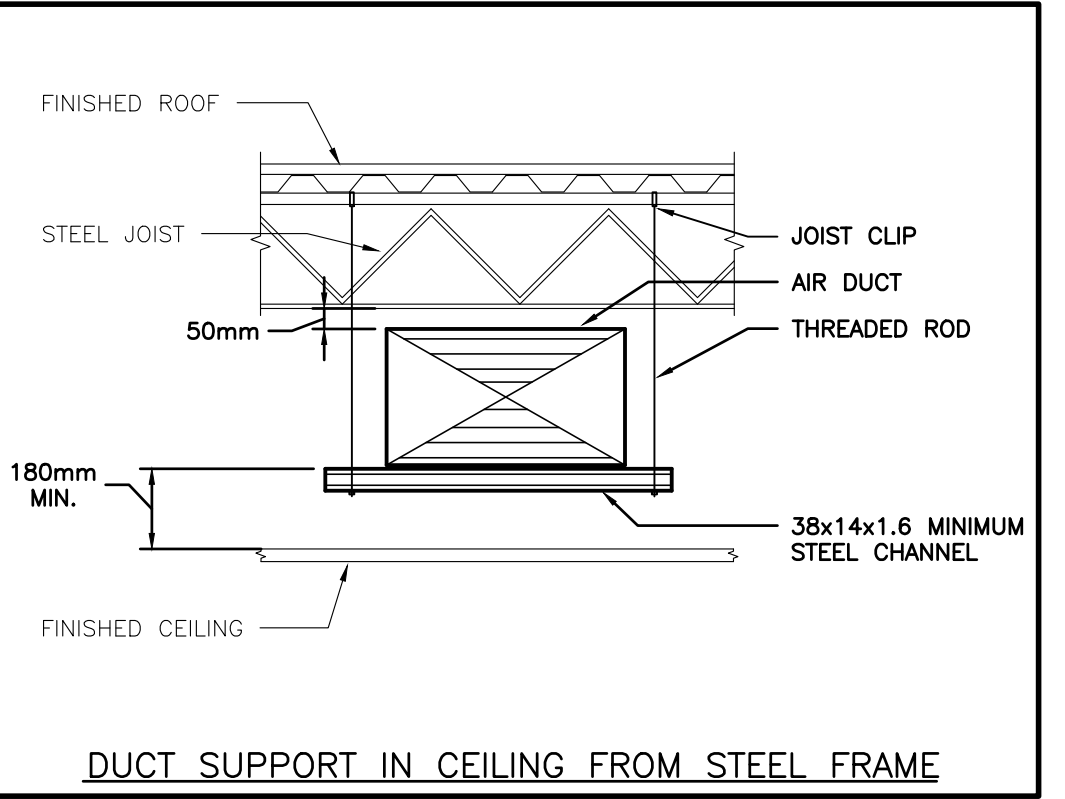
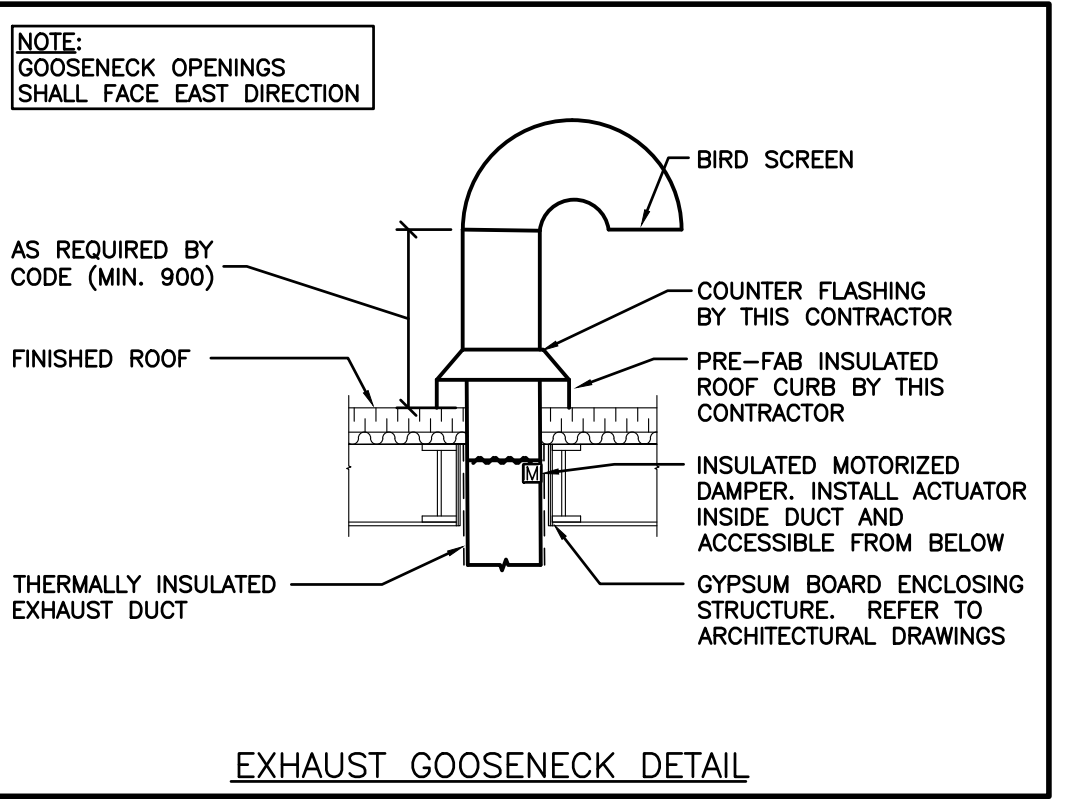
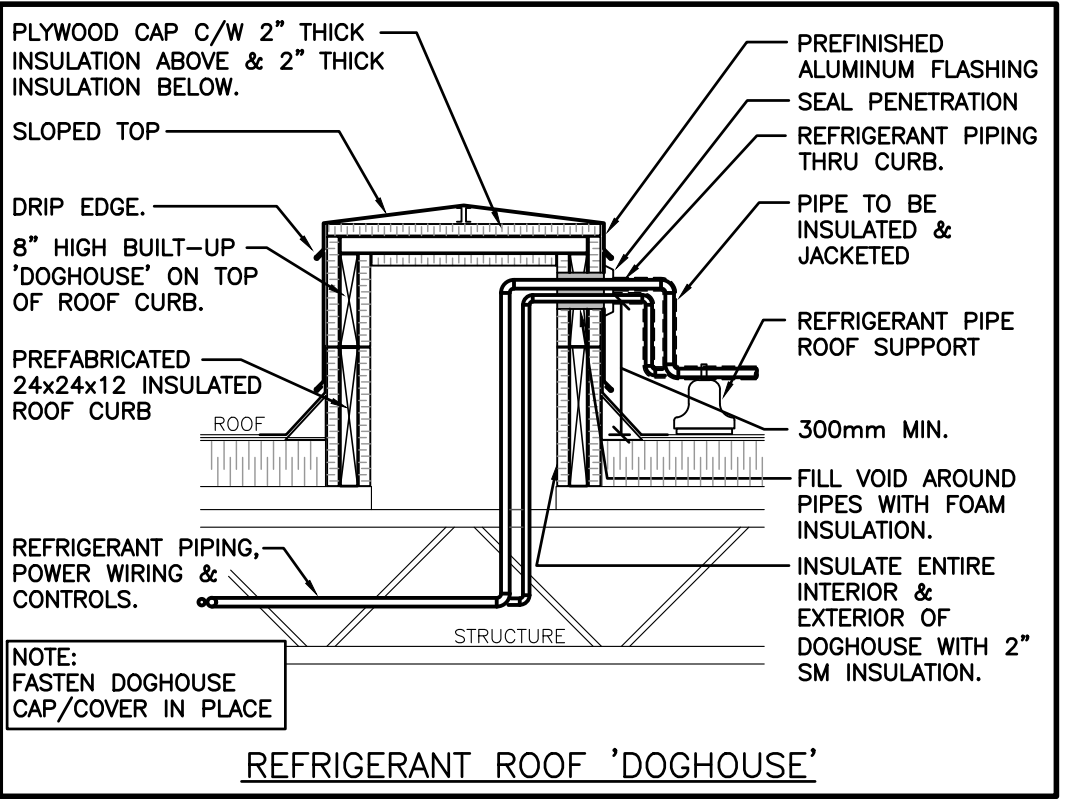
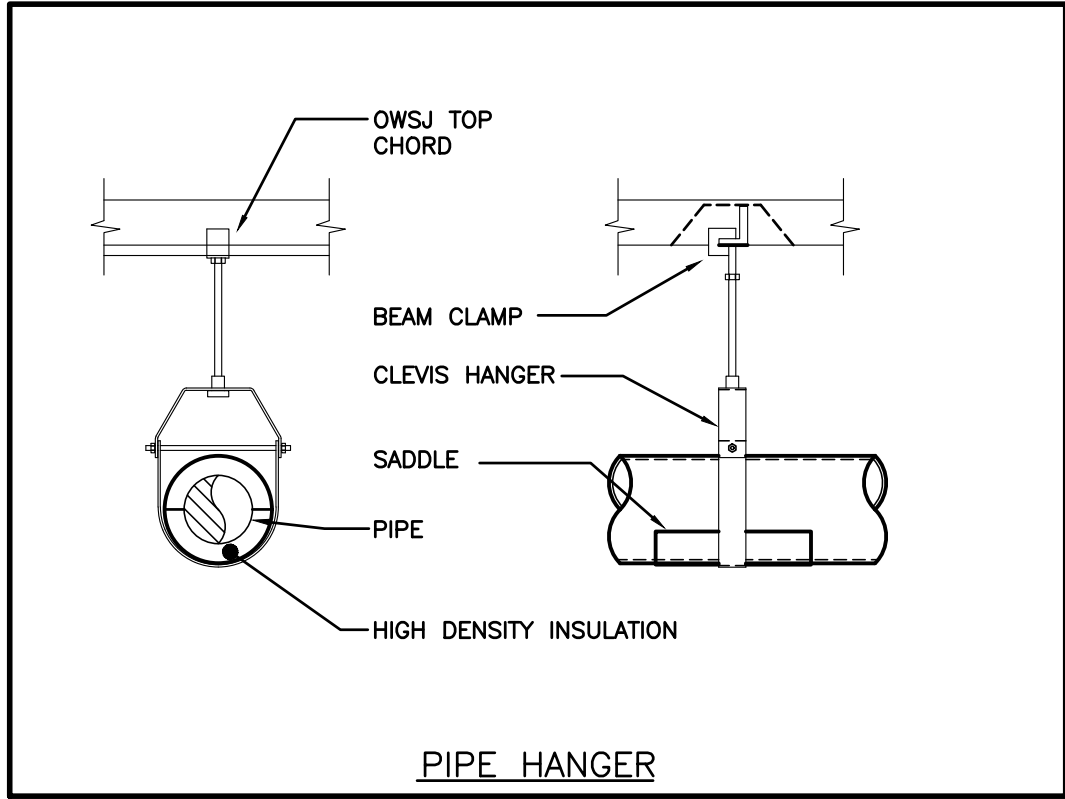
Sheet Title  
**BOILER ROOM  
DEMOLITION &  
RENOVATION**

**DEI**  
**Consulting Engineers**  
**MECHANICAL | ELECTRICAL | AQUATIC**  
55 Northland Road, Waterloo, ON N2V 1Y8  
Phone: 519-725-3555  
Website: deiassociates.ca

Drawn by HAD	Checked by JA	Approved by JA
Scale AS NOTED	Project Date JAN 2022	Print Date JAN 2022

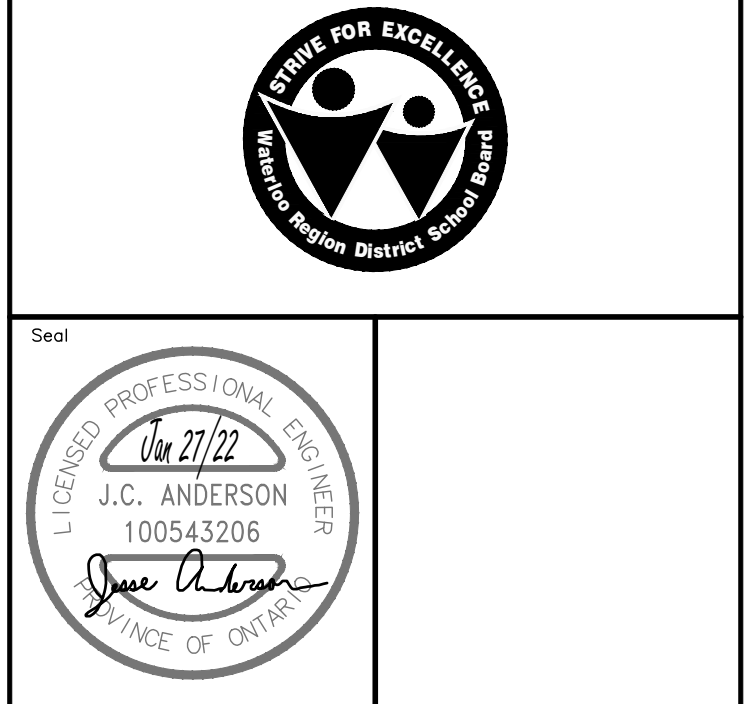
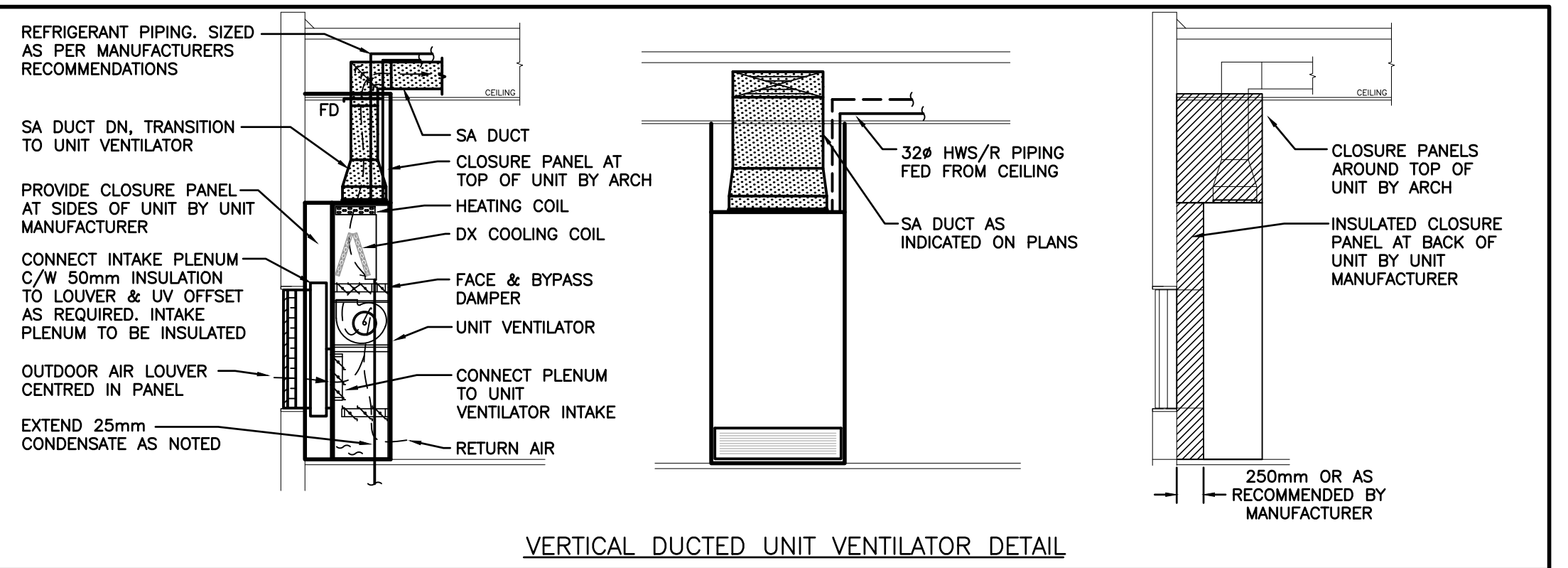
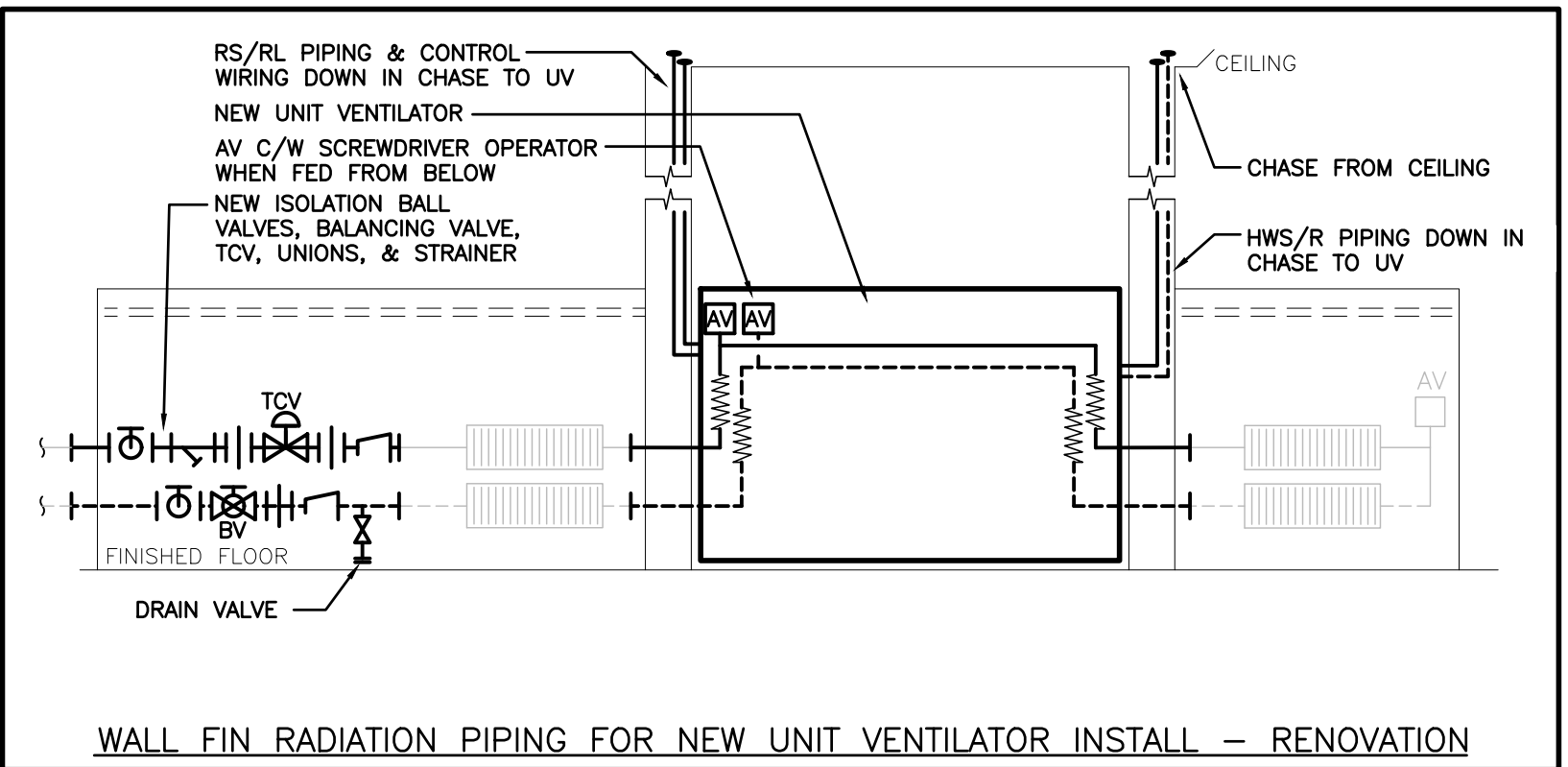
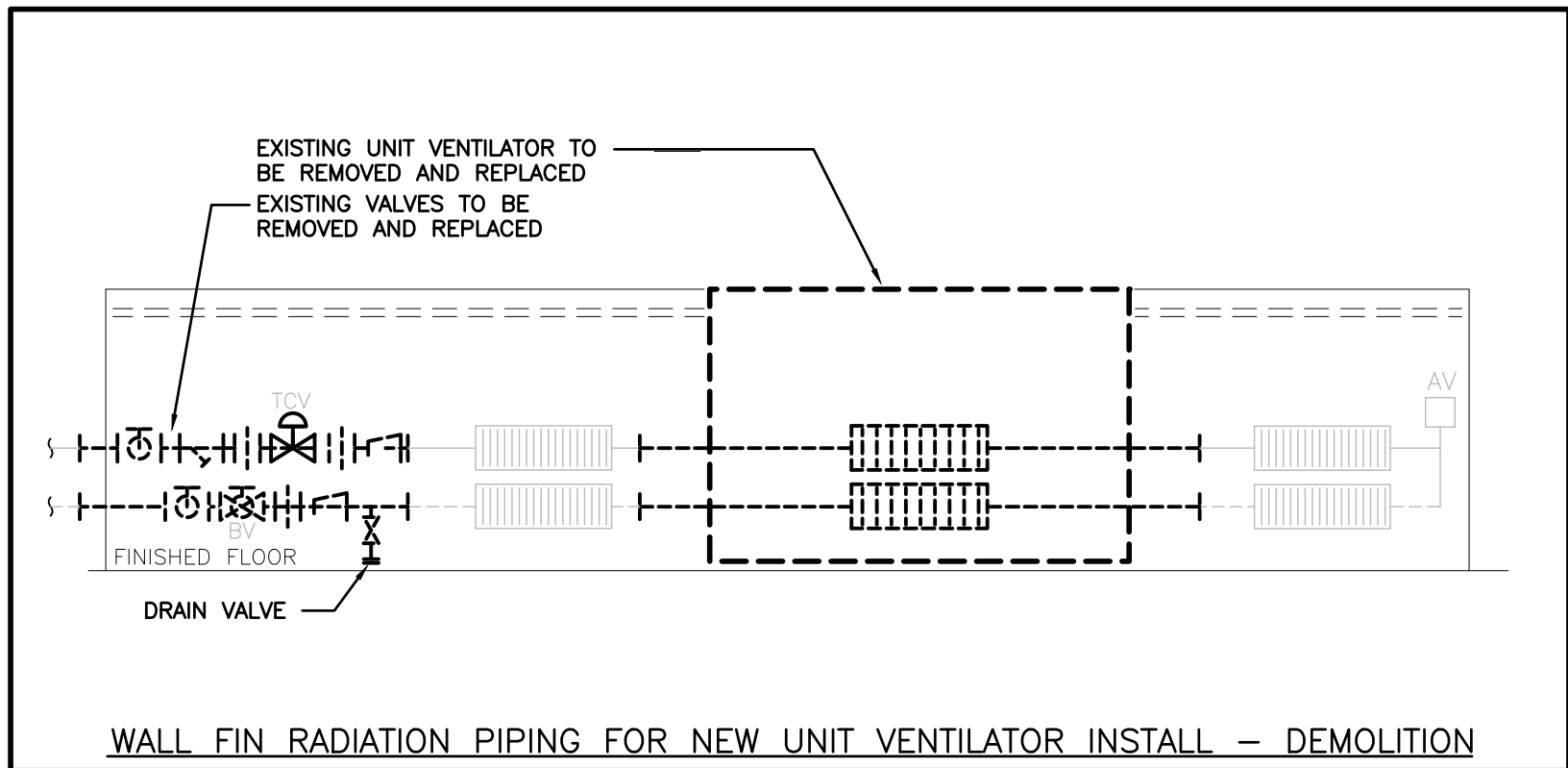
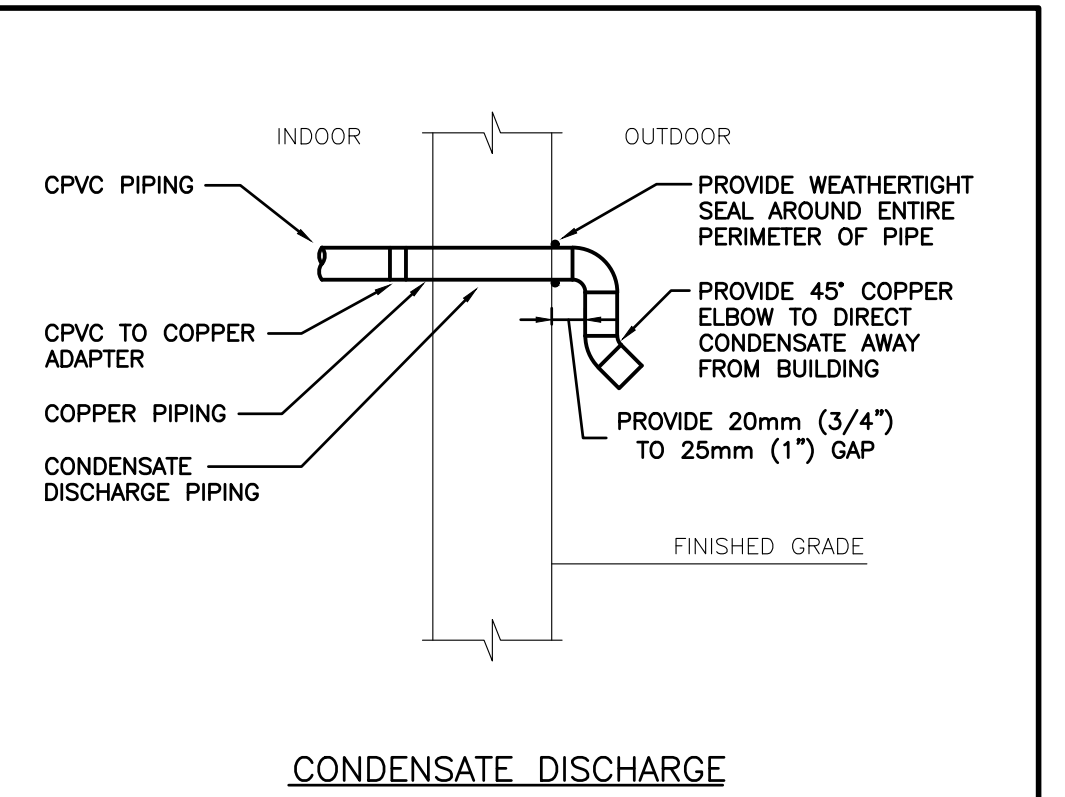
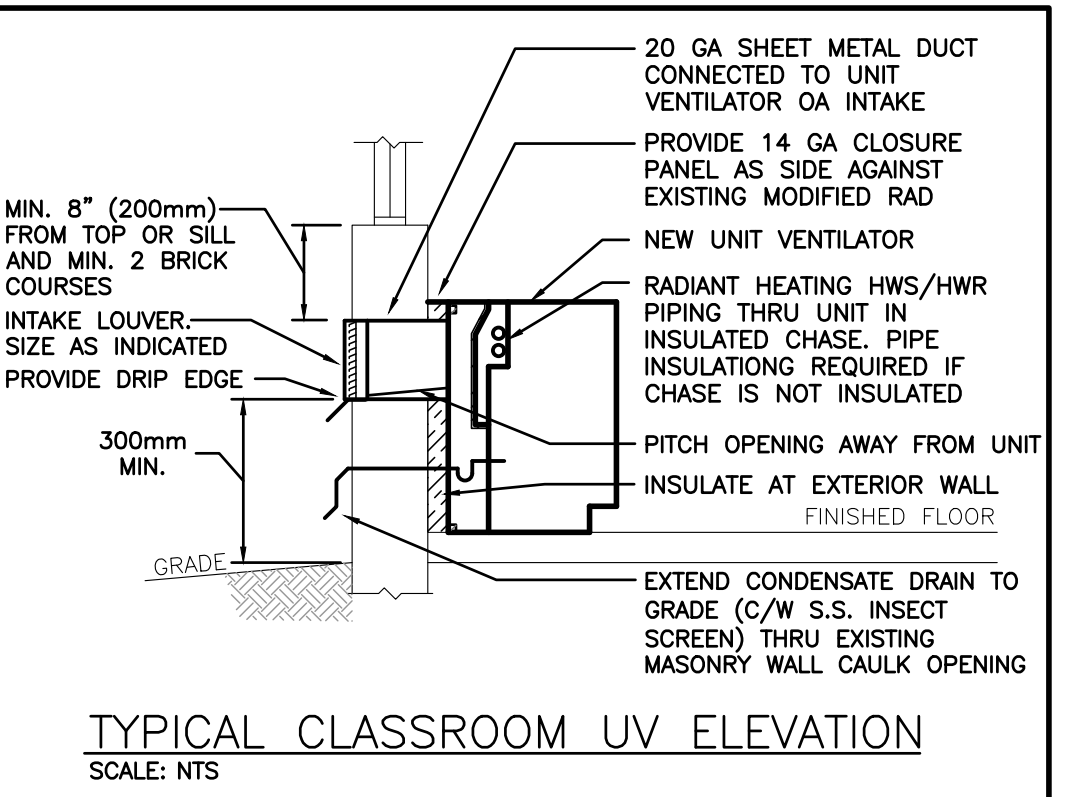
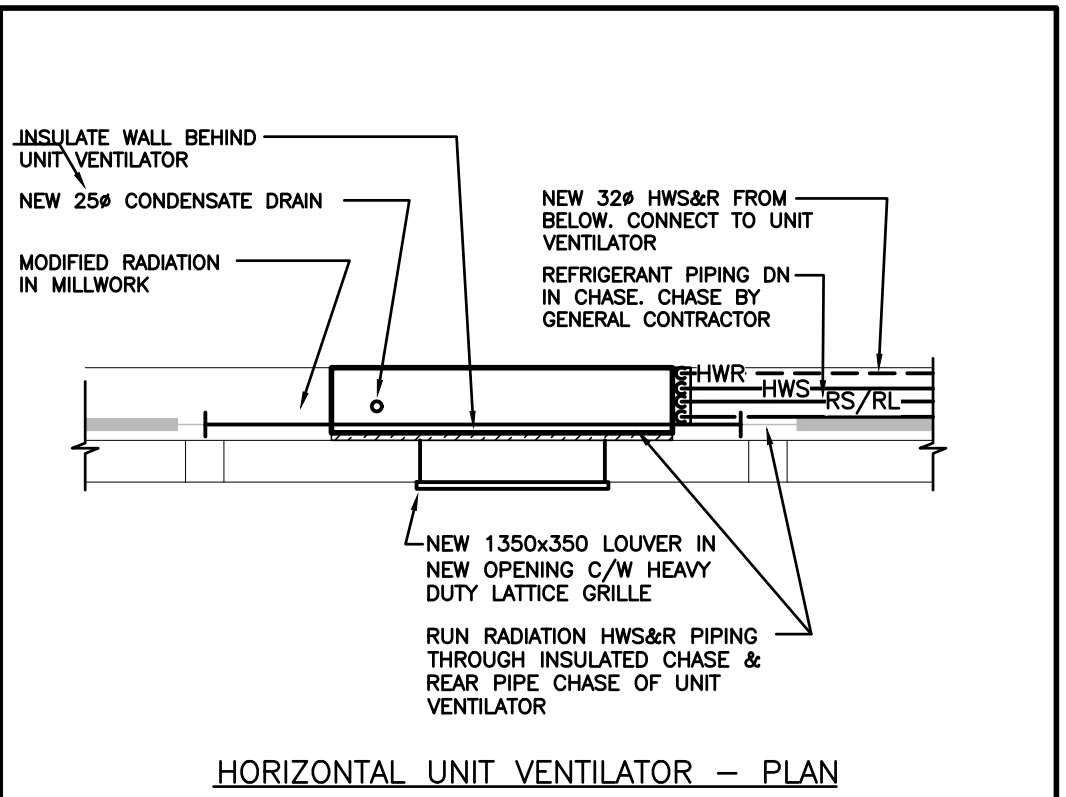
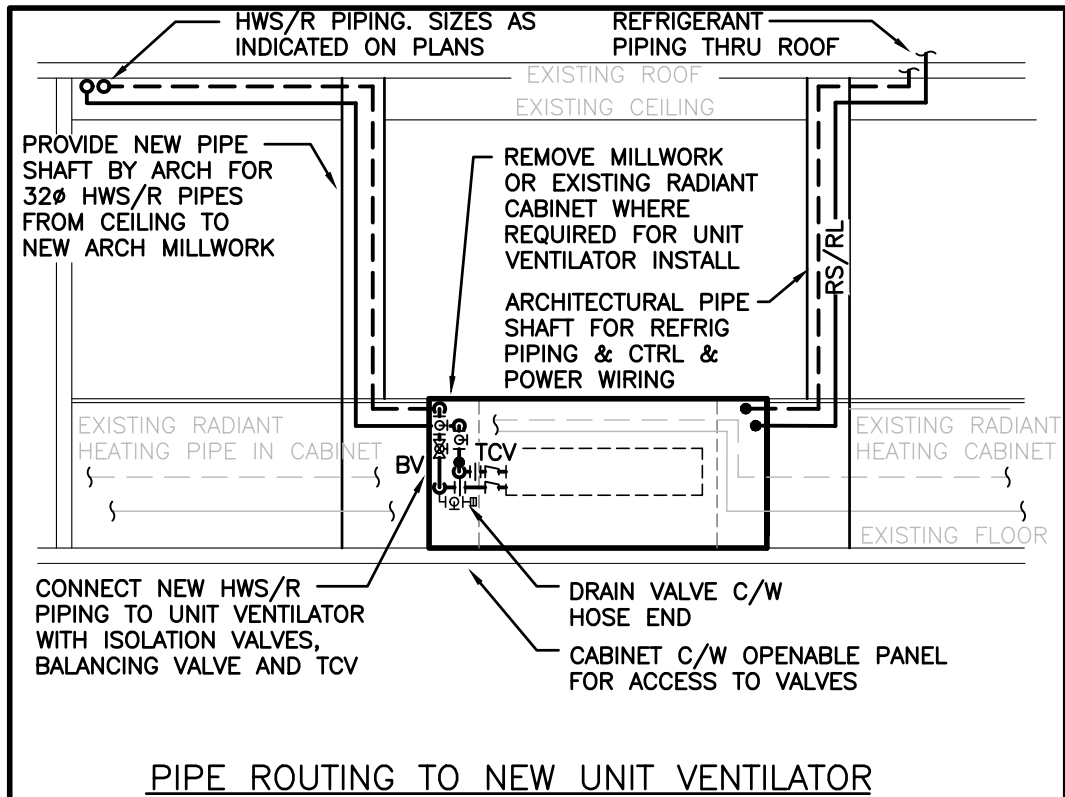
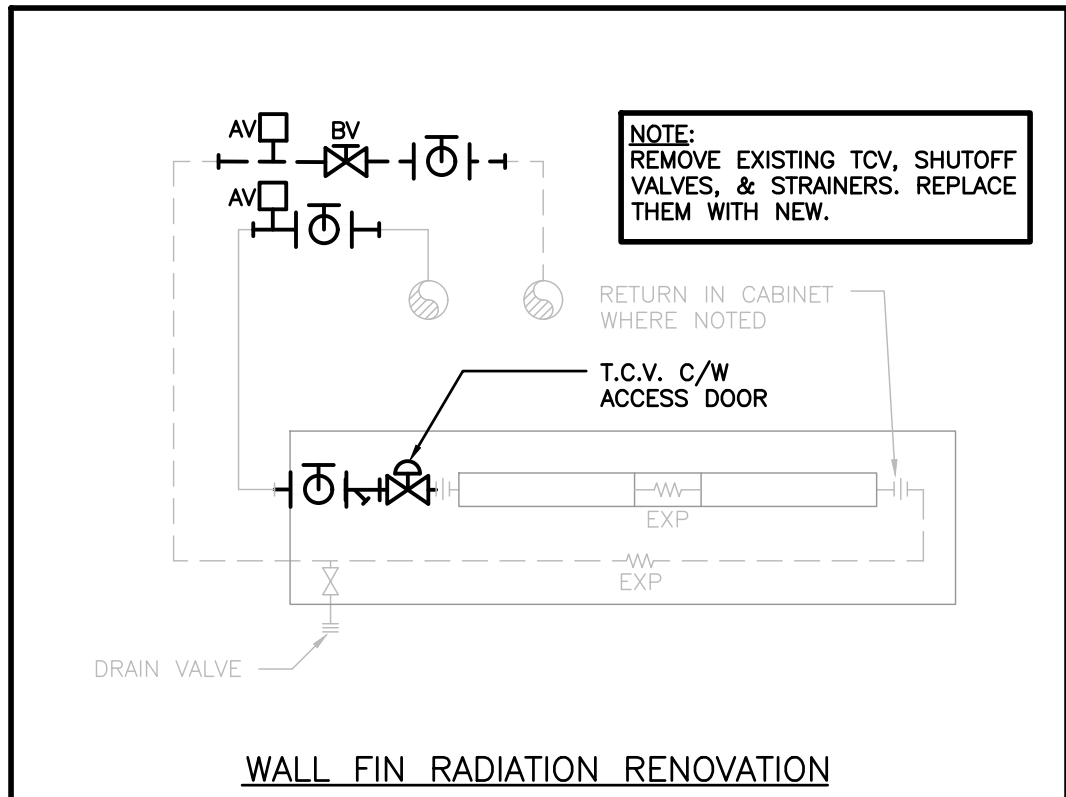
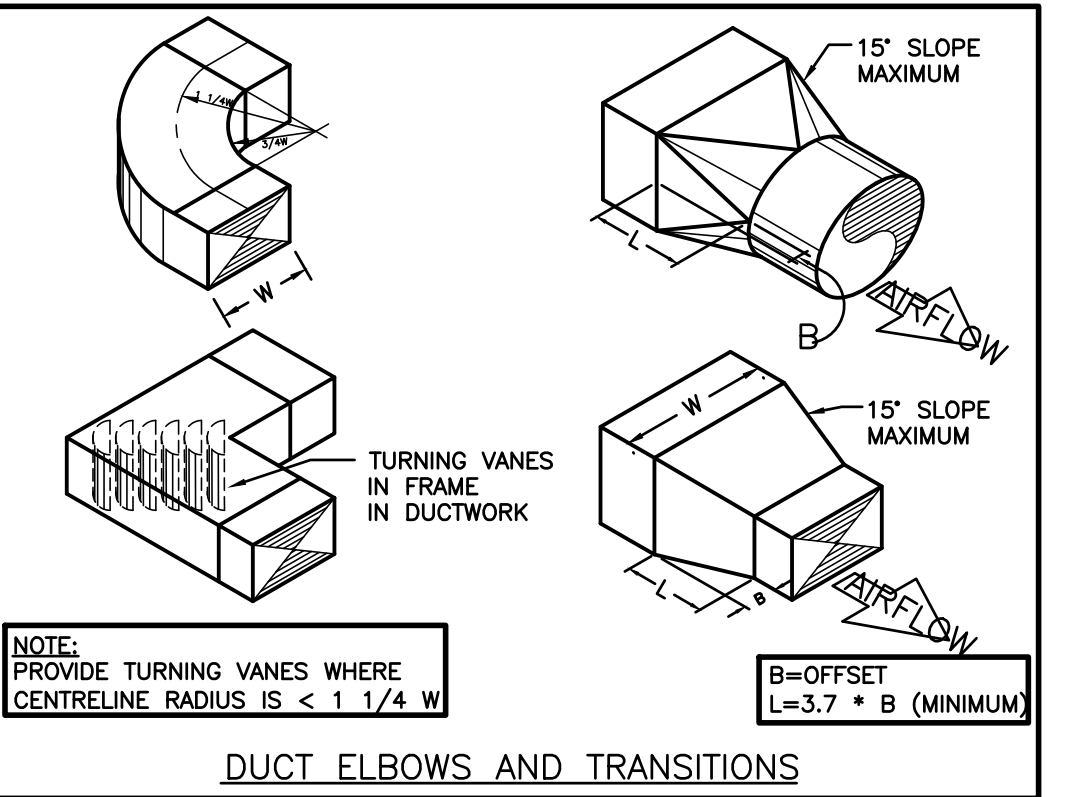
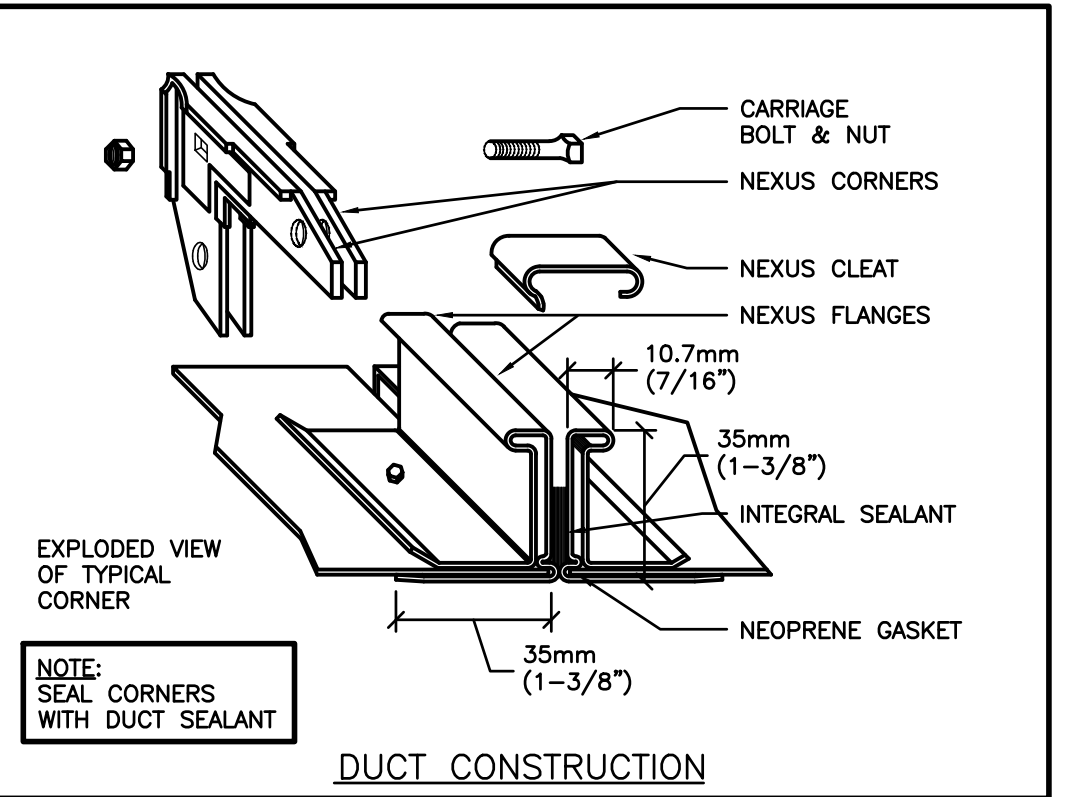
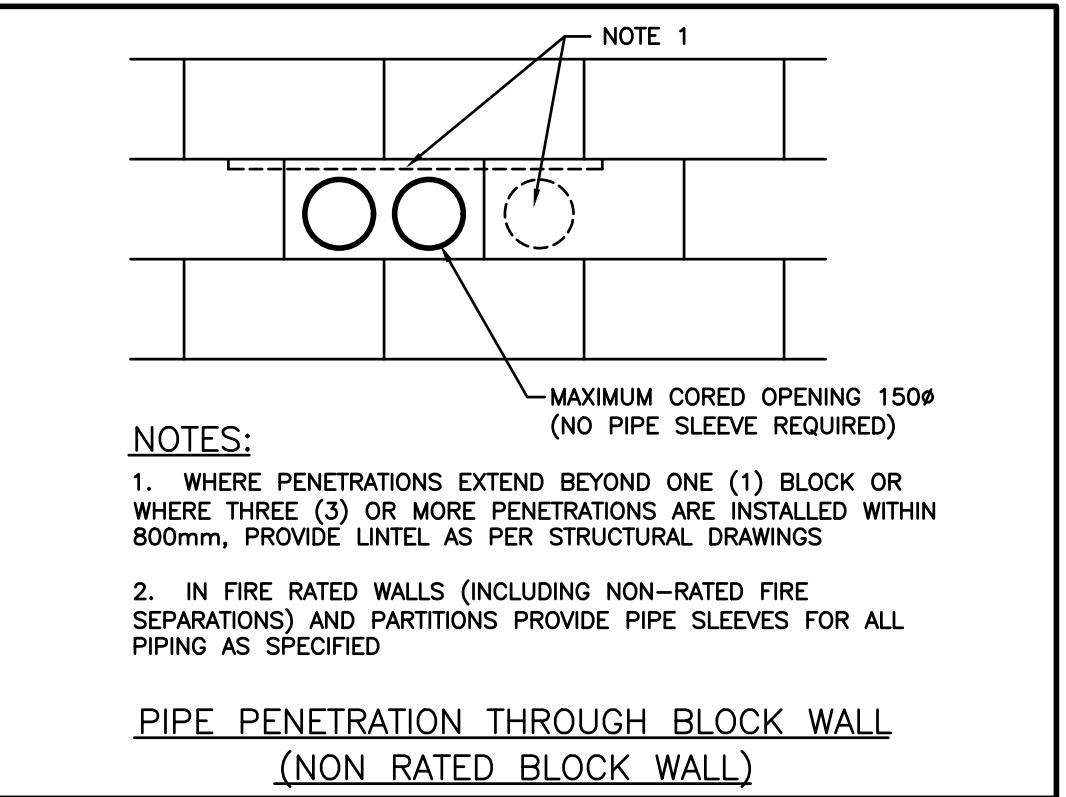
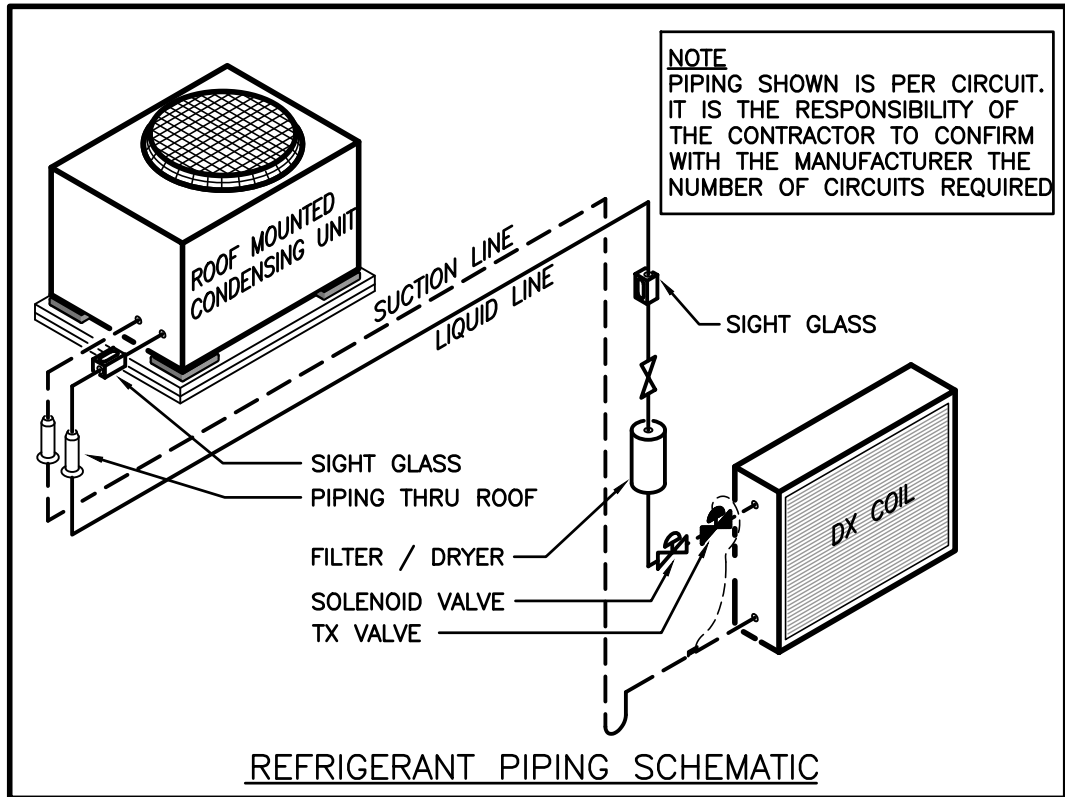
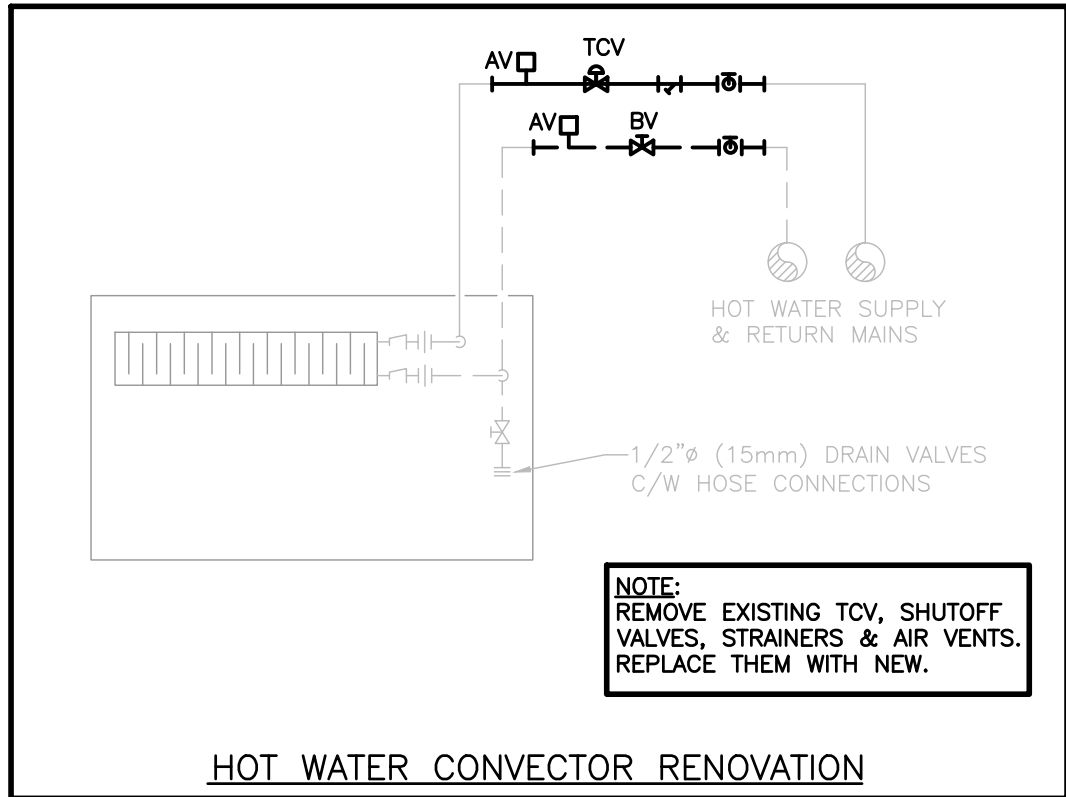
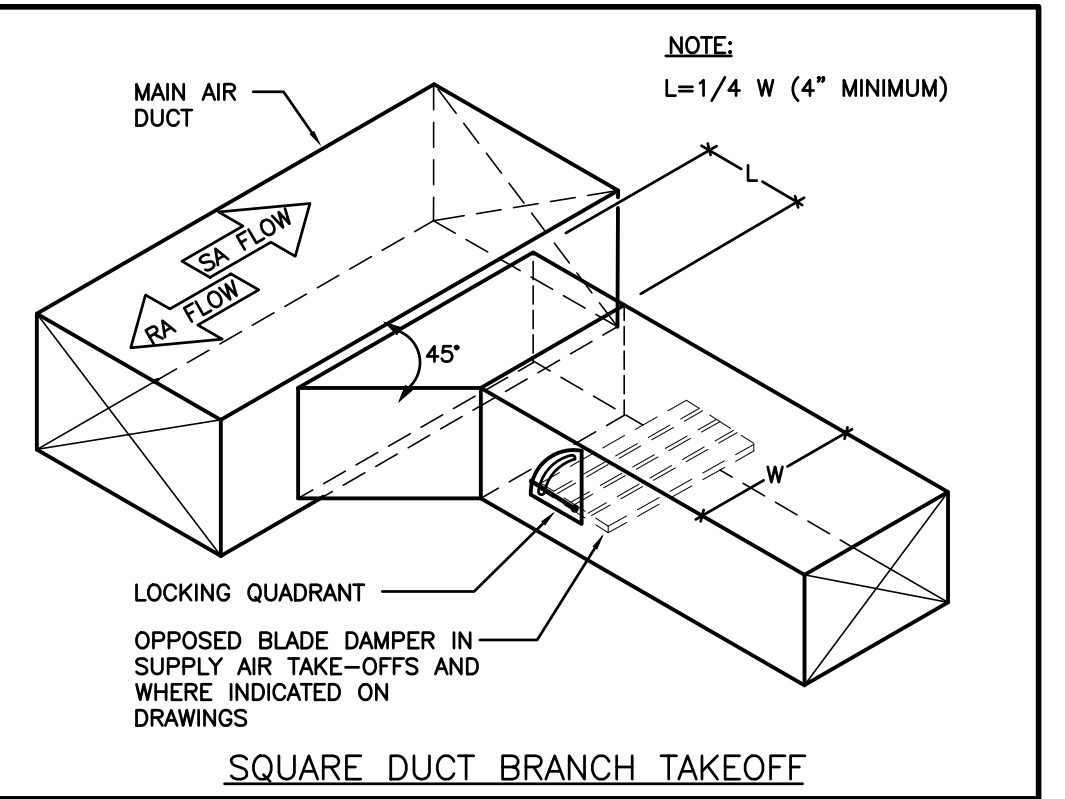
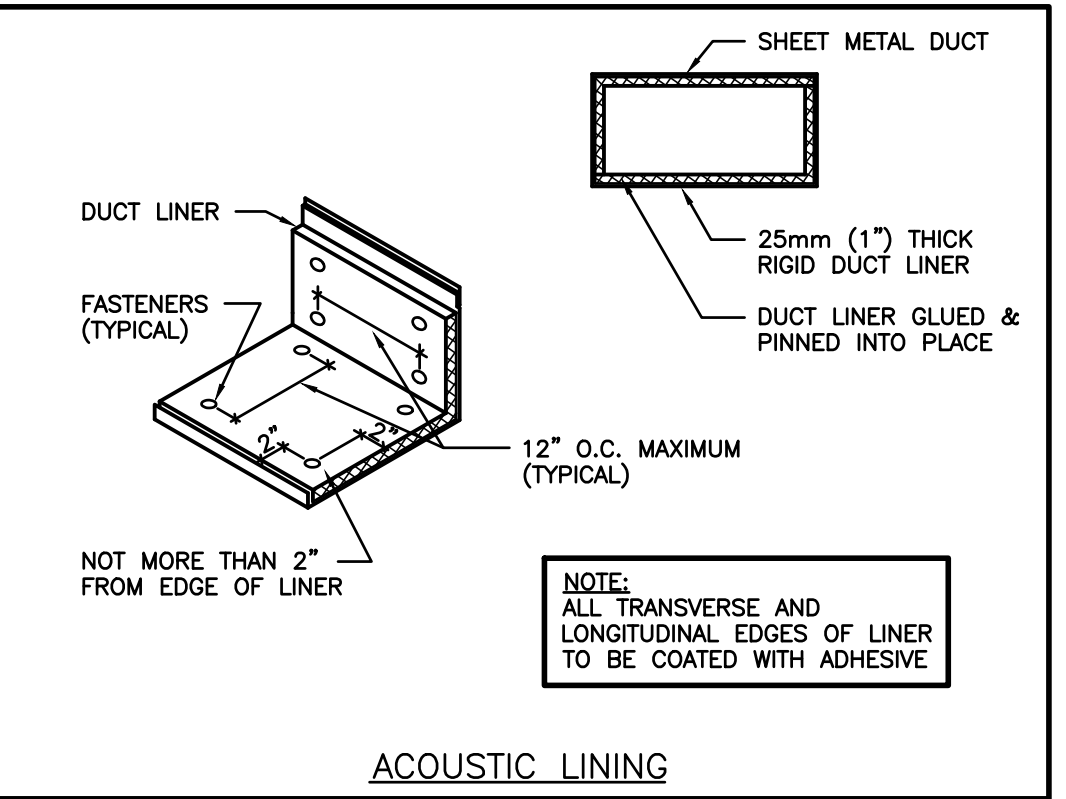
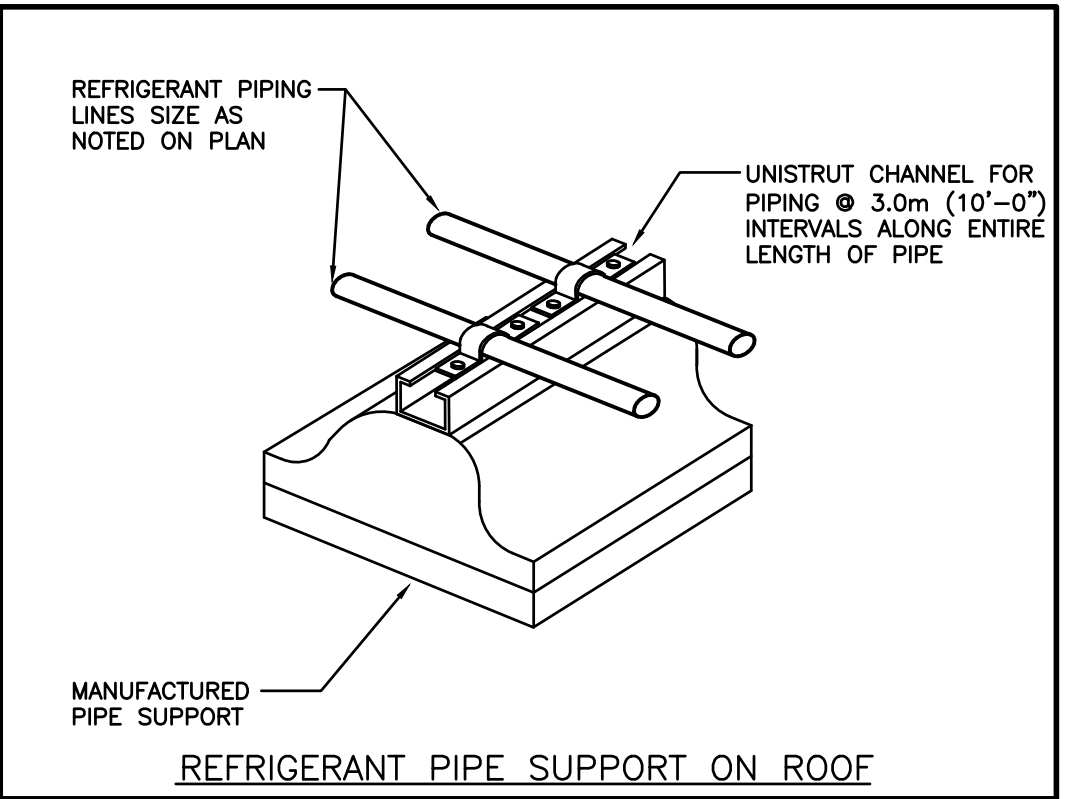
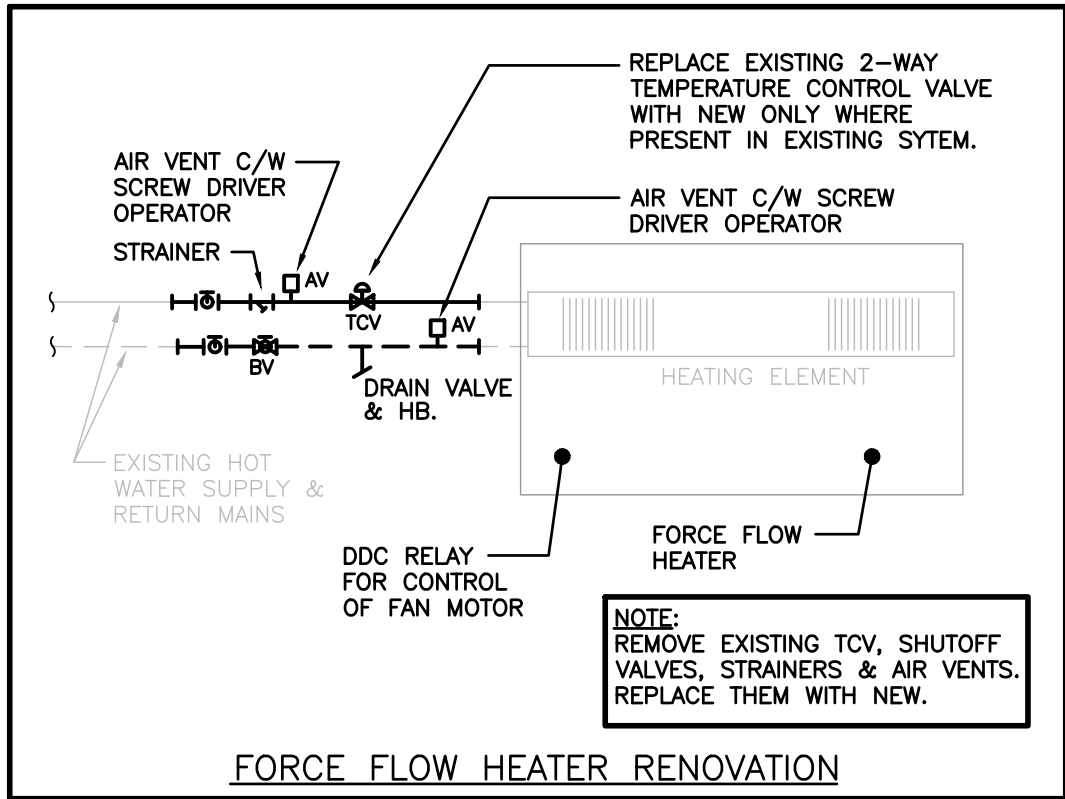
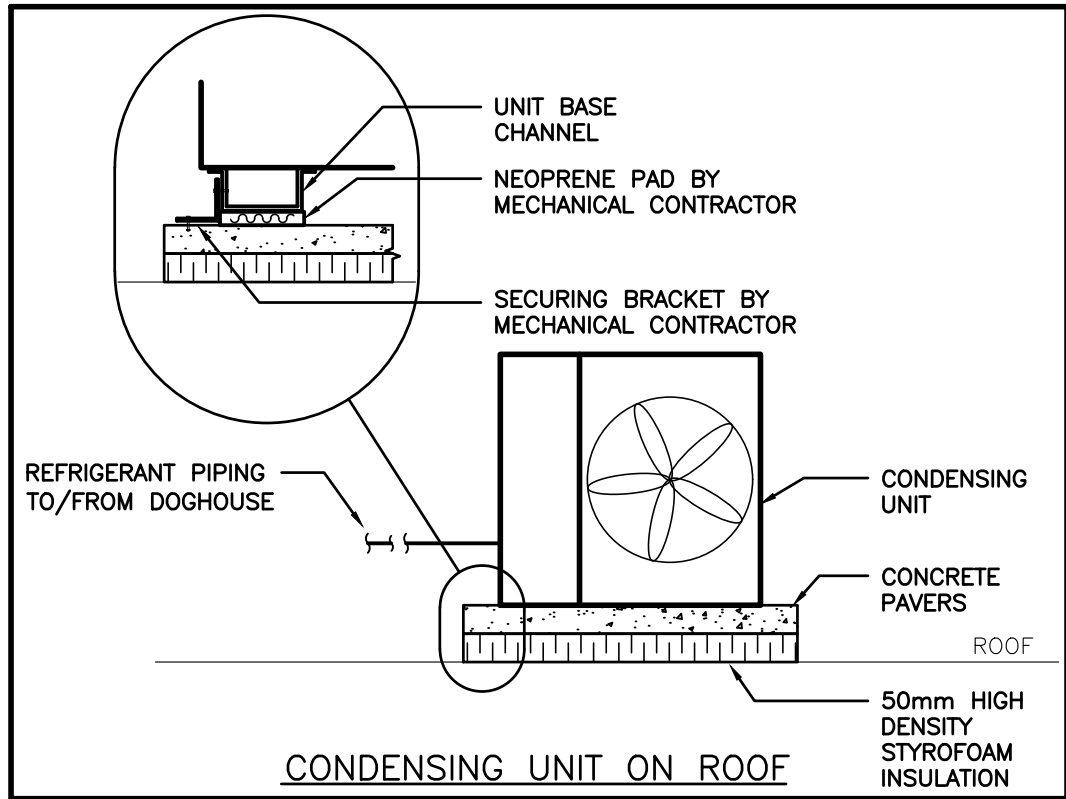
Project No.  
**21047**

Drawing No.  
**M601**



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.  
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ISSUANCES			
No	DATE YY/MM/DD	DESCRIPTION	BY
1	21.12.21	ISSUED FOR 99% TENDER REVIEW	JA
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Project  
**TAIT STREET PS  
HVAC RENOVATIONS  
Tender # 7198-RW-22**  
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

Sheet Title  
**MECHANICAL DETAILS  
& SECTIONS**

**DEI**  
**Consulting Engineers**  
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Phone: 519-725-3555  
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Project No. 21047	Drawing No. M701	