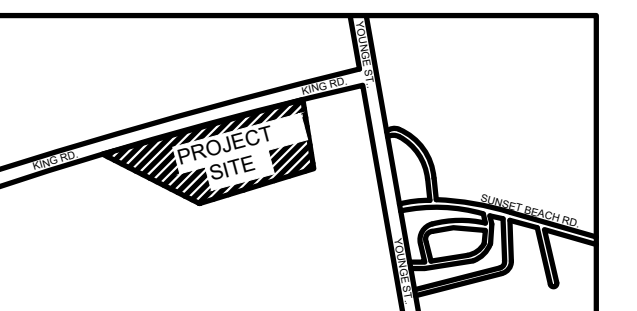
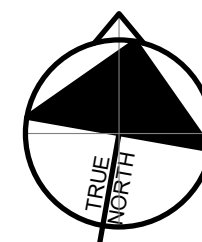


- KEYED NOTES:
- 1 REMOVE AND DISCARD INDICATED SECTIONS OF EXISTING DUCTWORK COMPLETE WITH DUCT INSULATION, FITTINGS, GRILLES, DAMPERS, SUPPORTS AND ACCESSORIES AS INDICATED ON THE DRAWINGS
 - 2 REMOVE AND DISCARD EXISTING ROOFTOP UNIT COMPLETE WITH ROOF CURB, DRAIN PIPE, FLEXIBLE CONNECTION, THERMOSTAT, CONTROL WIRING AND ASSOCIATED ACCESSORIES
 - 3 REMOVE AND DISCARD EXISTING EXHAUST FANS AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH ELECTRICAL AND ON SITE FOR THE POWER DISCONNECTION
 - 4 DEMOLISH AND DISPOSE OF BUILDING GAS LINE UP TO THE GAS METER. GAS METER AND PIPING DOWNSTREAM OF GAS METER TO BE DEMOLISHED BY OTHERS
 - 5 REMOVE AND DISCARD EXISTING BASEBOARD HEATERS AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH ELECTRICAL AND ON SITE FOR THE POWER DISCONNECTION
 - 6 REMOVE AND DISCARD EXISTING WALL MOUNTED EXHAUST FANS, AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH ELECTRICAL AND ON SITE FOR THE POWER DISCONNECTION
 - 7 REMOVE AND DISCARD THE EXISTING 8\"/>



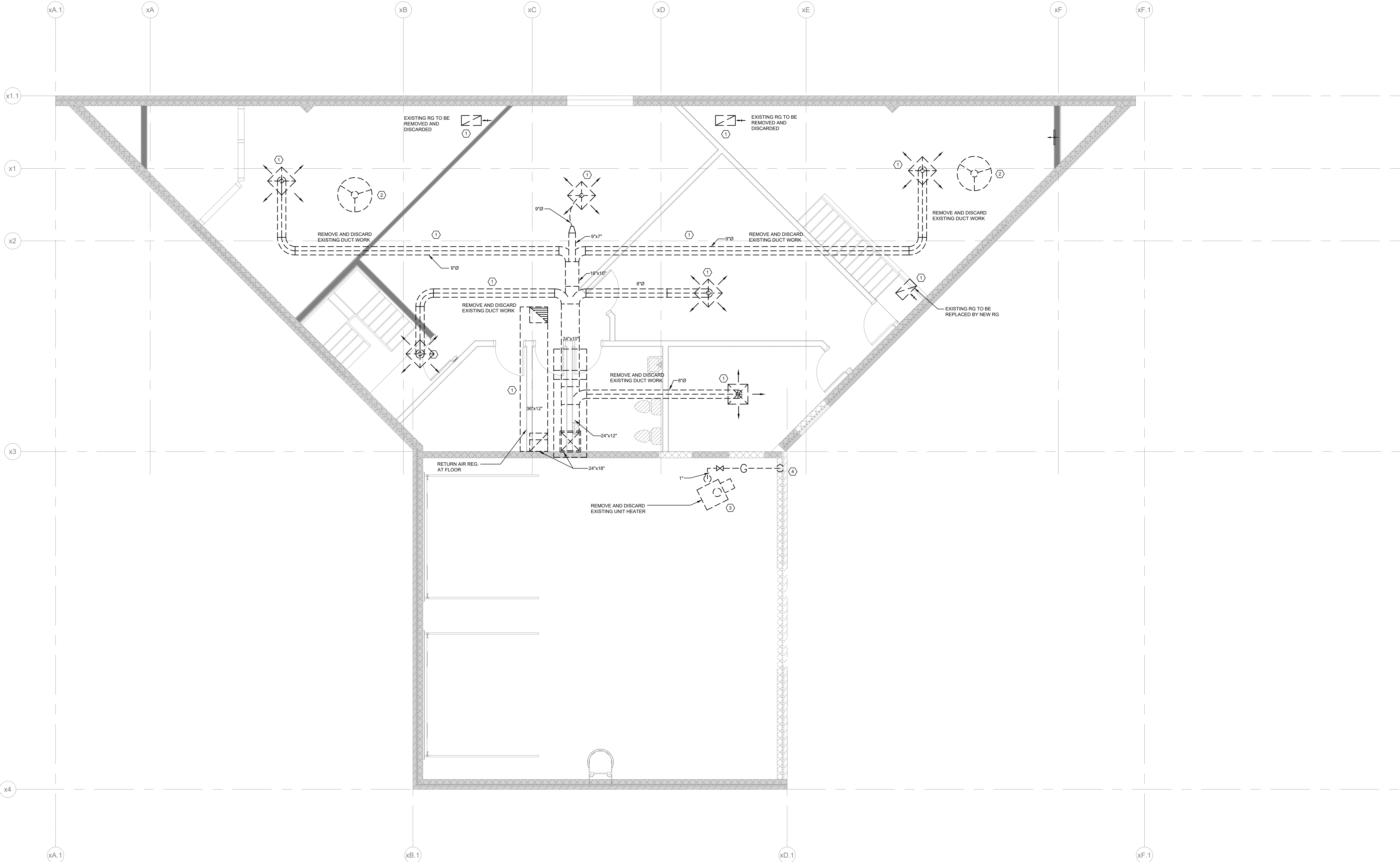
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04	2025-04-01	ISSUED FOR TENDER
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**CONNOR BUILDING
RENOVATIONS**

**GROUND FLOOR HVAC -
DEMOLITION**



KEYED NOTES:

- 1 REMOVE AND DISCARD INDICATED SECTIONS OF EXISTING DUCTWORK AND ASSOCIATED DUCT INSULATION, FITTINGS, DAMPERS, GRILLES AND DIFFUSERS, SUPPORTS AND ACCESSORIES. CAP THE OPEN-END DUCT FOR RECONNECTION UNDER THE NEW WORK. MECHANICAL CONTRACTOR TO REPORT ANY DAMAGED ITEMS TO THE CLIENT.
- 2 REMOVE AND DISCARD EXISTING DESTRATIFICATION FANS AND ALL ASSOCIATED ACCESSORIES. COORDINATE WITH ELECTRICAL AND ON SITE FOR THE POWER DISCONNECTION.
- 3 REMOVE AND DISCARD EXISTING UNIT HEATER, VENT PIPE, CONTROL WIRING, THERMOSTAT, AND ASSOCIATED ACCESSORIES. DISCONNECT FROM EXISTING GAS PIPELINE. COORDINATE WITH ELECTRICAL AND ON SITE FOR THE POWER DISCONNECTION.
- 4 REMOVE AND DISCARD EXISTING GAS PIPING, ALL ASSOCIATED FITTINGS AND SUPPORTS, BACK TO THE SOURCE AT GAS METER STATION. COORDINATE WITH ENBRIDGE FOR THE DEMOLITION AND NEW SCOPE OF WORK.

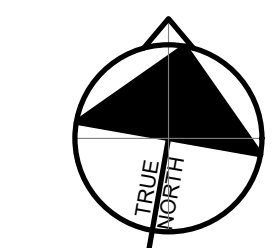


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25mm

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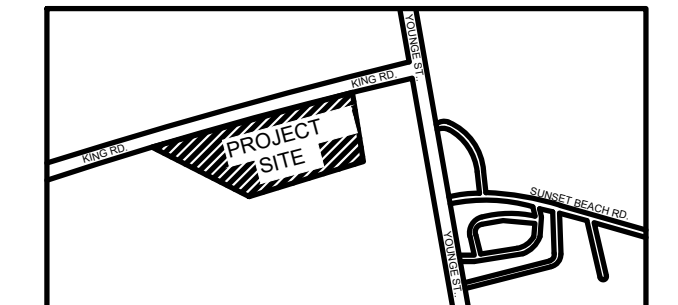


DIGITAL REFERENCE:

PROJECT NO.: CA0011757-0343 CONTRACT NO.

DRAWN BY: VO CHECKED BY: BK APPROVED BY: AR

KEYPLAN:



04	2025-04-01	ISSUED FOR TENDER
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NO. DATE ISSUED

PROJECT

**CONNOR BUILDING
RENOVATIONS**

DRAWING TITLE

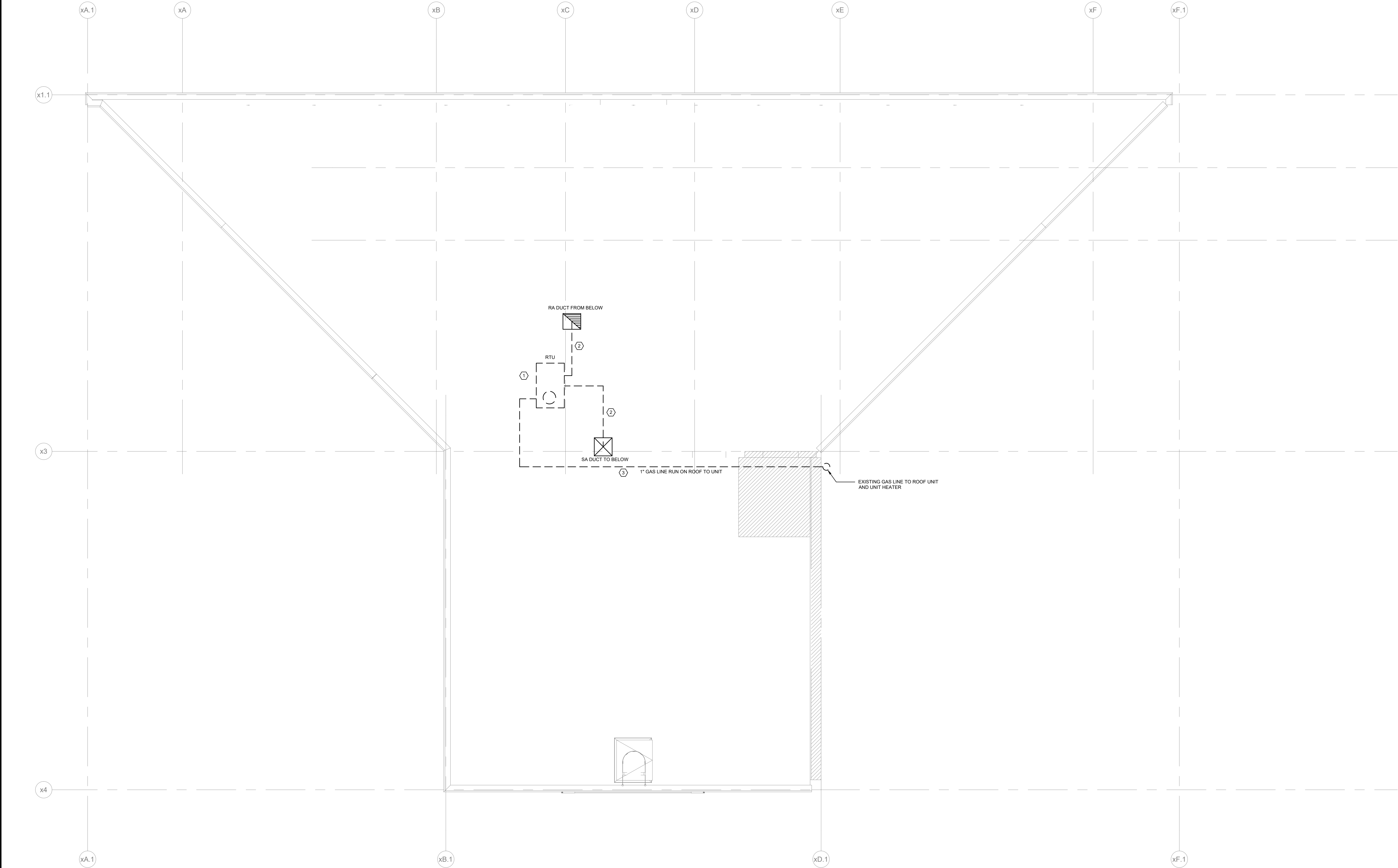
**SECOND FLOOR HVAC -
DEMOLITION**

1:50

DRAWING NO.

M202

PRINT DATE: 2025-01-07 3:49:26 PM



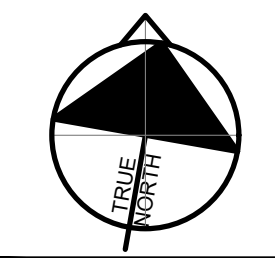
- KEYED NOTES:
- 1 REMOVE AND DISCARD EXISTING ROOFTOP UNIT ON THE ROOF ALONG, DRAIN PIPE, GAS PIPE CONNECTION, FLEXIBLE CONNECTIONS, CONTROL WIRING, AND ASSOCIATED ACCESSORIES. MECHANICAL CONTRACTOR SHALL ENSURE THAT THE AREA IS SUITABLE FOR INSTALLING THE NEW ROOFTOP UNIT. COORDINATE WITH ELECTRICAL FOR THE POWER DISCONNECTION. COORDINATE WITH STRUCTURAL FOR THE REQUIRED ROOF MODIFICATION TO SUIT THE NEW RTU.
 - 2 REMOVE AND DISCARD EXISTING DUCTWORK COMPLETE WITH DUCT INSULATION, FITTINGS, DAMPERS, SUPPORTS AND ACCESSORIES AS INDICATED ON THE DRAWINGS. CAP THE THE OPEN-END DUCT FOR RECONNECTION UNDER THE NEW WORK. MECHANICAL CONTRACTOR TO REPORT ANY DAMAGED ITEMS TO THE CLIENT.
 - 3 REMOVE AND DISCARD EXISTING GAS PIPEWORK COMPLETE WITH FITTINGS, SUPPORTS, BACK TO THE SOURCE AT GAS METER STATION. COORDINATE WITH ENBRIDGE FOR THE DEMOLITION AND NEW SCOPE OF WORK.



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NORTH ARROW:

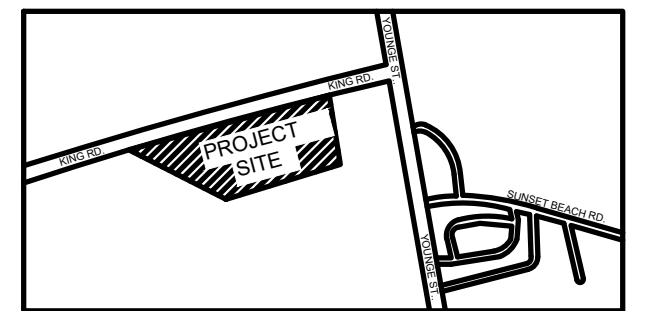


DIGITAL REFERENCE:

PROJECT NO.: CA0011757-0343 CONTRACT NO.

DRAWN BY: VG CHECKED BY: BK APPROVED BY: AR

KEYPLAN:



04	2025-04-01	ISSUED FOR TENDER
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PROJECT

**CONNOR BUILDING
RENOVATIONS**

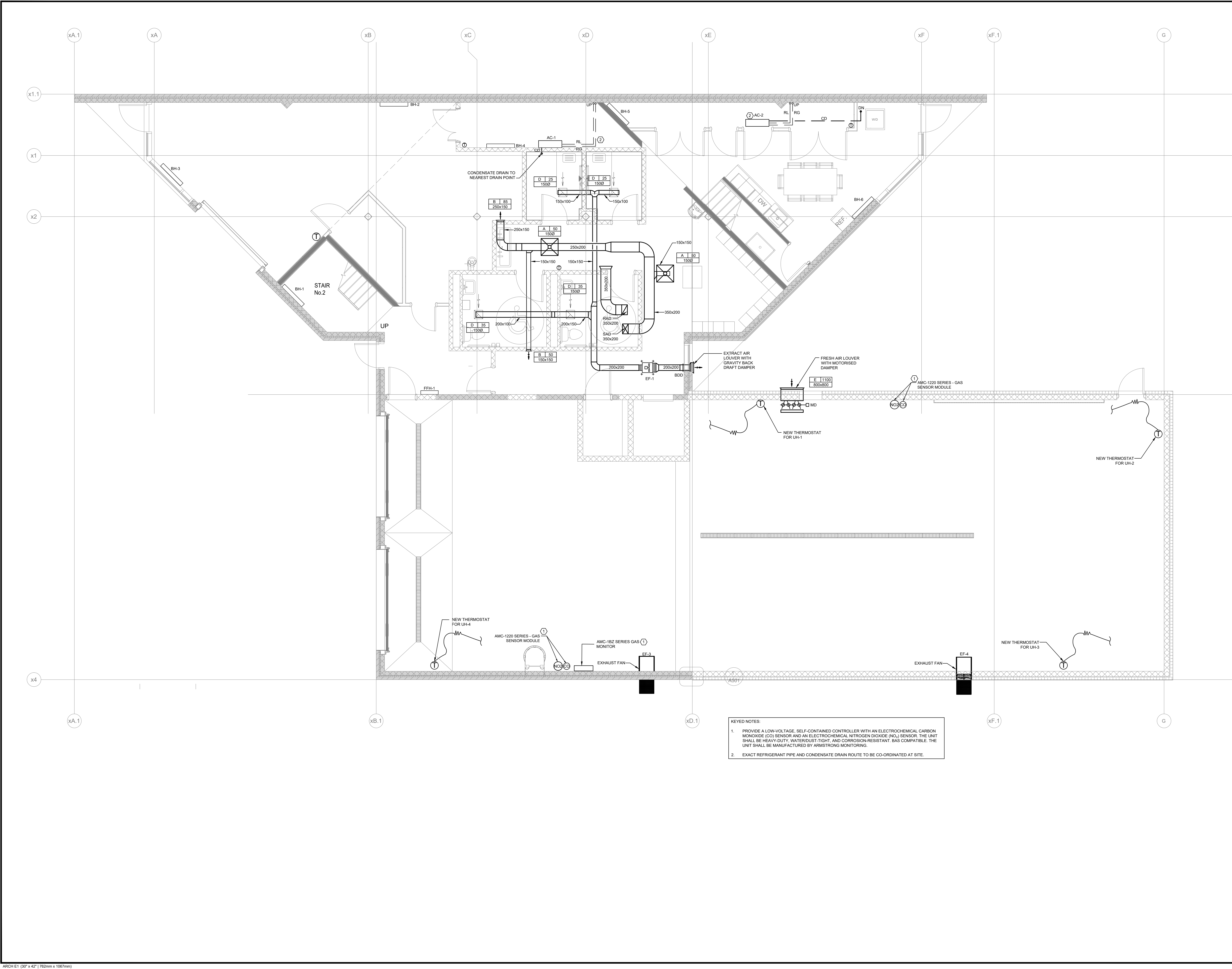
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ROOF HVAC - DEMOLITION

1:50

DRAWING NO.

M203



ARCHITECTURE

49

ARCHITECTURE49

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City of Richmond Hill

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KEYPLAN:

NO. DATE ISSUED

PROJECT

CONNOR BUILDING RENOVATIONS

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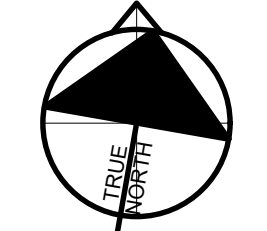
GROUND FLOOR HVAC - NEW WORK

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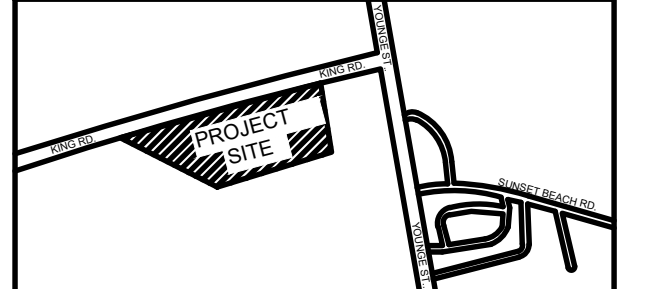
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TAL REFERNECE:

PROJECT NO.: CA0011757.0343 CONTRACT NO.

OWN BY: VO CHECKED BY: BR APPROVED BY: AR



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2024-12-13	ISSUED FOR PERMIT
2024-09-19	ISSUED FOR INTERNAL REVIEW

DATE	ISSUED
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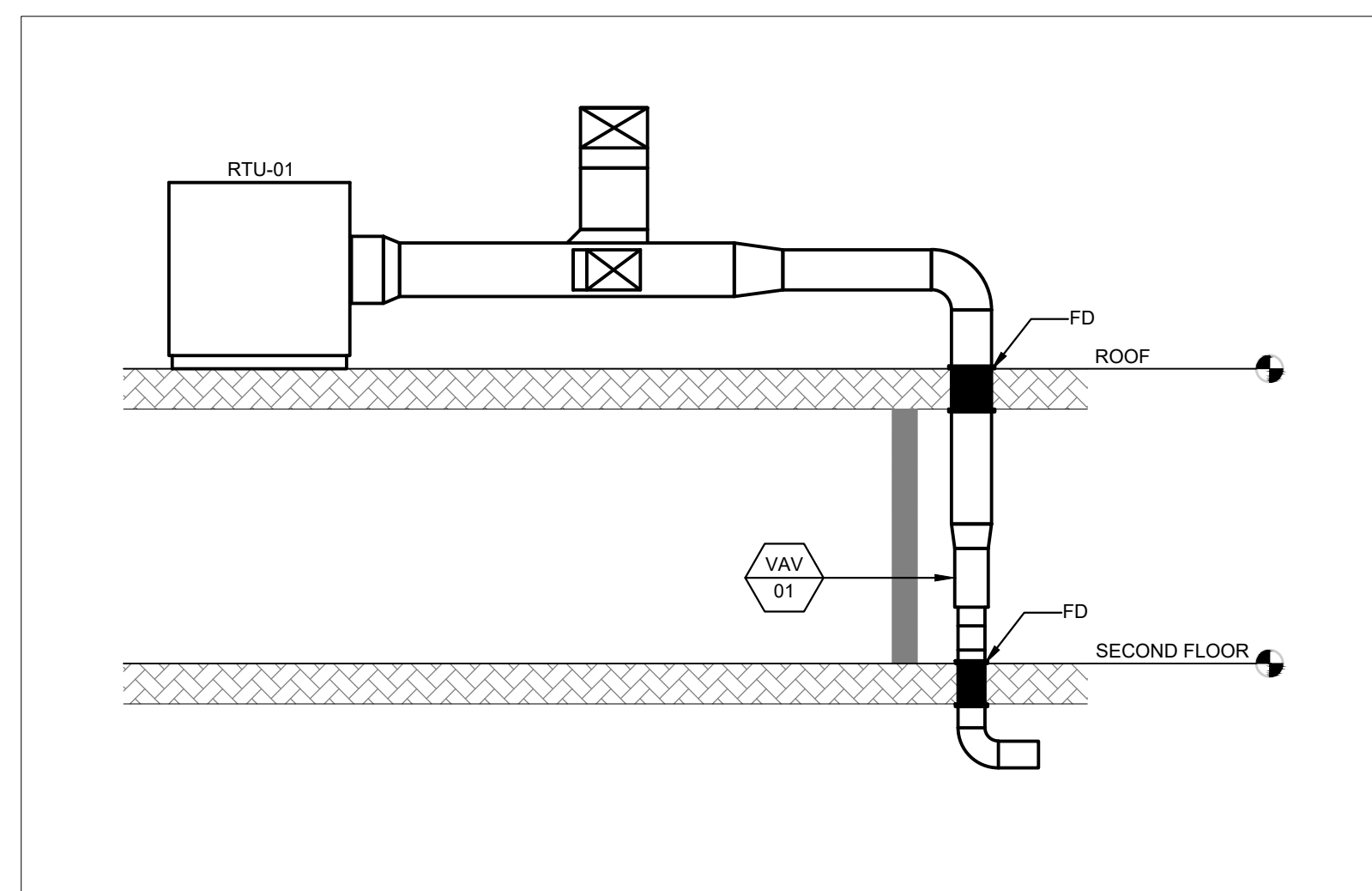
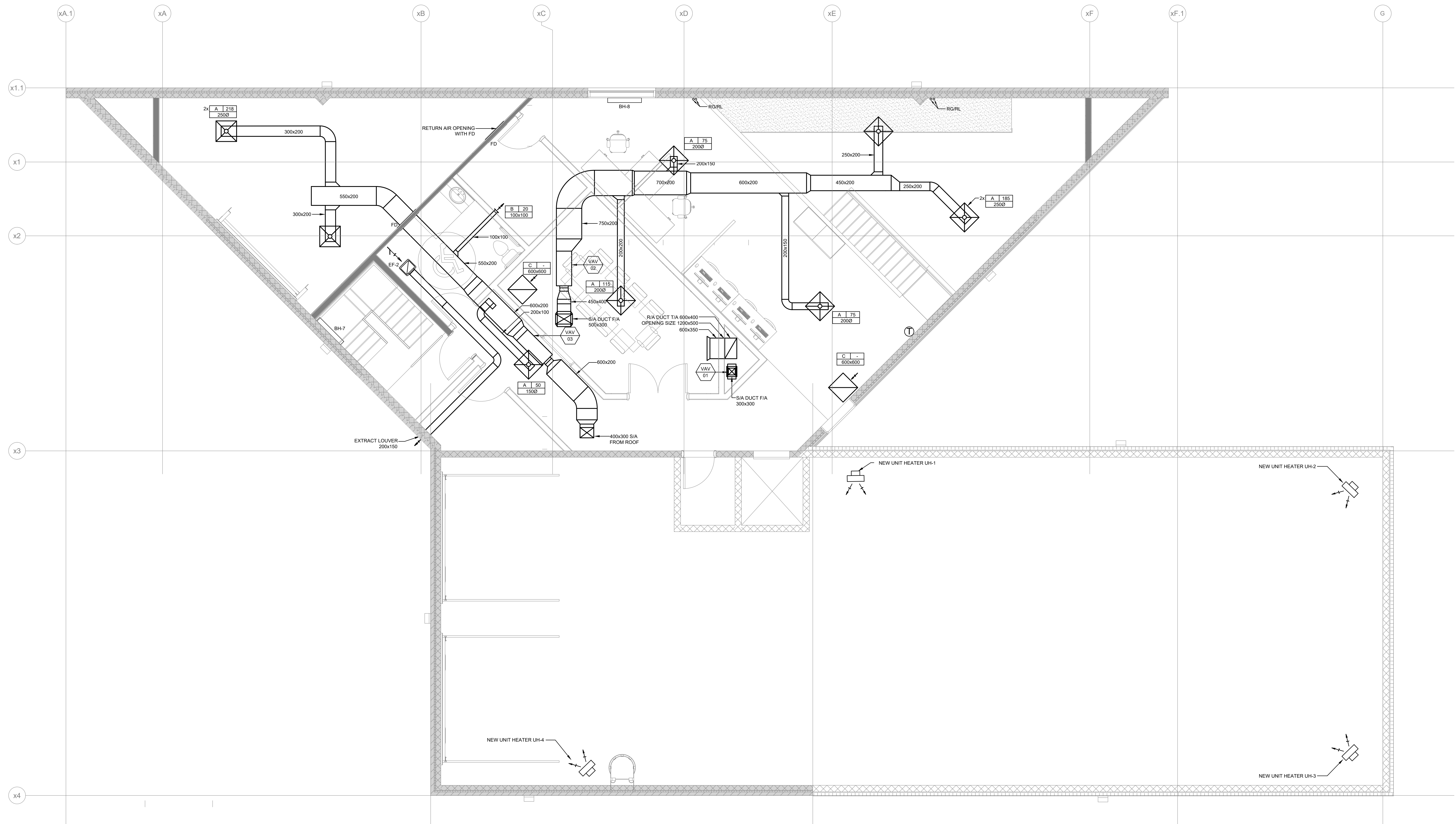
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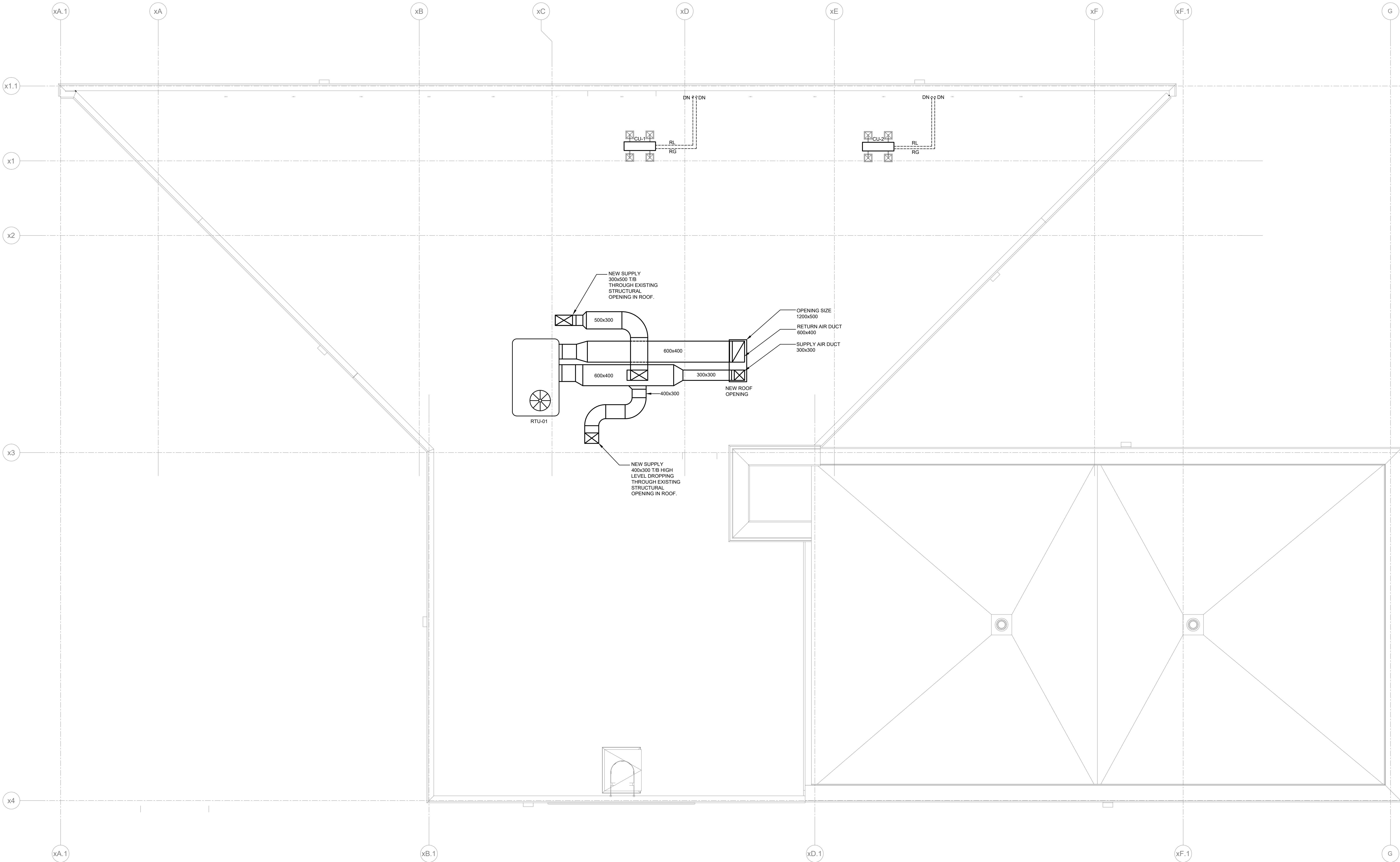
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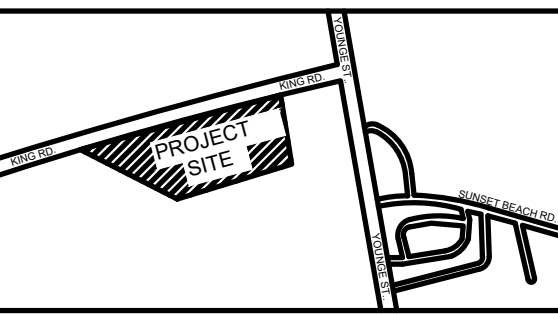
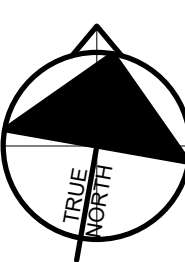
RISER VAV 01
N.T.S.



- NOTES:
1. PROVIDE NEW ROOFTOP UNIT SECURED ON FACTORY SUPPLIED ROOF CURB COMPLETE WITH ALL ACCESSORIES REQUIRED FOR INSTALLATIONS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL FIELD-INSTALLED ACCESSORIES ARE INSTALLED AS PER MANUFACTURER RECOMMENDATIONS REFER TO SCHEDULE OF NEW ROOF TOP UNITS FOR INCLUDED OPTIONS/ACCESSORIES. COORDINATE EXACT LOCATION AND ELEVATION WITH THE ARCHITECT. FOR FURTHER DETAILS AND INFORMATION, REFER TO MECHANICAL EQUIPMENT SCHEDULE.
 2. INSTALL OUTDOOR UNIT CU-TALL COMPONENTS AS PER MANUFACTURER MANUAL, INSTRUCTION, AND RECOMMENDATION.
 3. PROVIDE CONTROLS FOR RTU COMPLETE WITH SENSORS, TRANSFORMERS, PROGRAMMABLE REMOTER SETPOINT ADJUSTERS, CONTROL WIRING ETC.
 4. THERMOSTAT TO BE LOCATED AT 1.2 m (3'-11") AFF IN ACCORDANCE WITH SPECIFICATIONS AND AS INDICATED ON DRAWING. SUPPLY NEW CONTROL WIRING AND ACCESSORIES, ENSURING ALL CONTROL COMPONENTS ARE ENCLOSED WITHIN CONDUIT.
 5. MECHANICAL CONTRACTOR TO PROVIDE MEDIA FILTER ON THE OPEN END OF RETURN DUCT AND REMOVE IT ONCE CONSTRUCTION IS COMPLETE. MECHANICAL CONTRACTOR TO CLEAN THE ROOFTOP UNIT TO REMOVE ANY ACCUMULATED DIRT AND DEBRIS AFTER CONSTRUCTION AND BEFORE OCCUPANCY.
 6. PROVIDE NEW SUPPLY AND RETURN DUCTWORK CONNECTED TO NEW ROOFTOP UNIT COMPLETE WITH SUPPORTS, FITTINGS, ACCESSORIES, INSULATION, VAPOR BARRIER AND CLADDING. THE DUCTS SHALL PENETRATE THROUGH THE EXISTING OPENINGS ON THE ROOF AS INDICATED ON DRAWING. SEAL THE OPENINGS AND MAKE THEM GOOD. MECHANICAL CONTRACTOR SHALL ENSURE THE INSTALLATION OF SUITABLE FIRE DAMPERS WHEN PENETRATING ANY FIRE-RATED SEPARATION. PROVIDE ACOUSTIC LINING DOWNSTREAM OF SUPPLY AND RETURN AIR DUCTS CONNECTED TO THE ROOFTOP UNIT. REFER TO MECHANICAL DETAILS AND SPECIFICATIONS.
 7. PROVIDE NEW DOGHOUSE FOR REFRIGERANT PIPES AND POWER. ALLOW FOR SEALING/FIRE STOPPING AT PENETRATIONS AS REQUIRED.



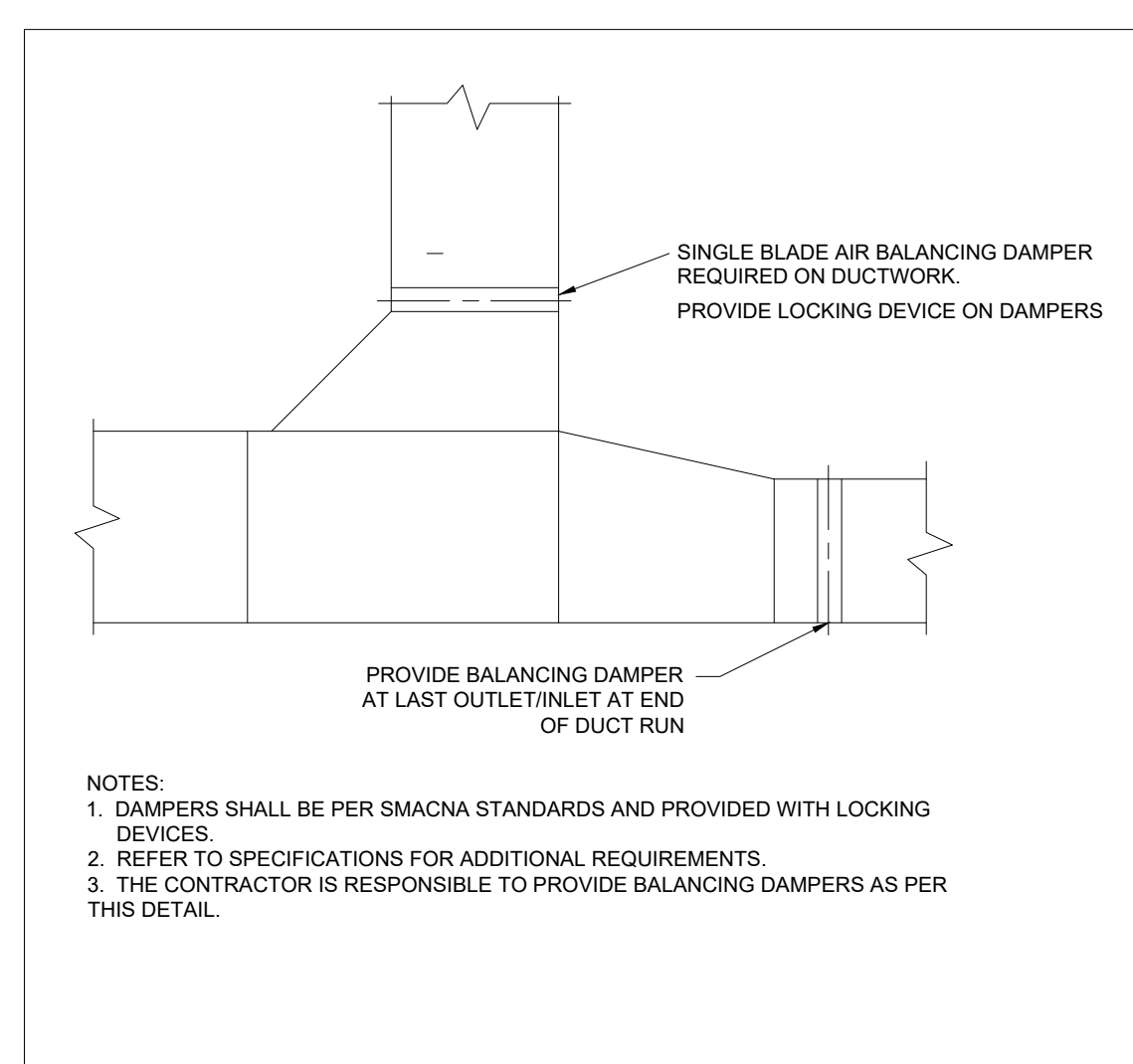
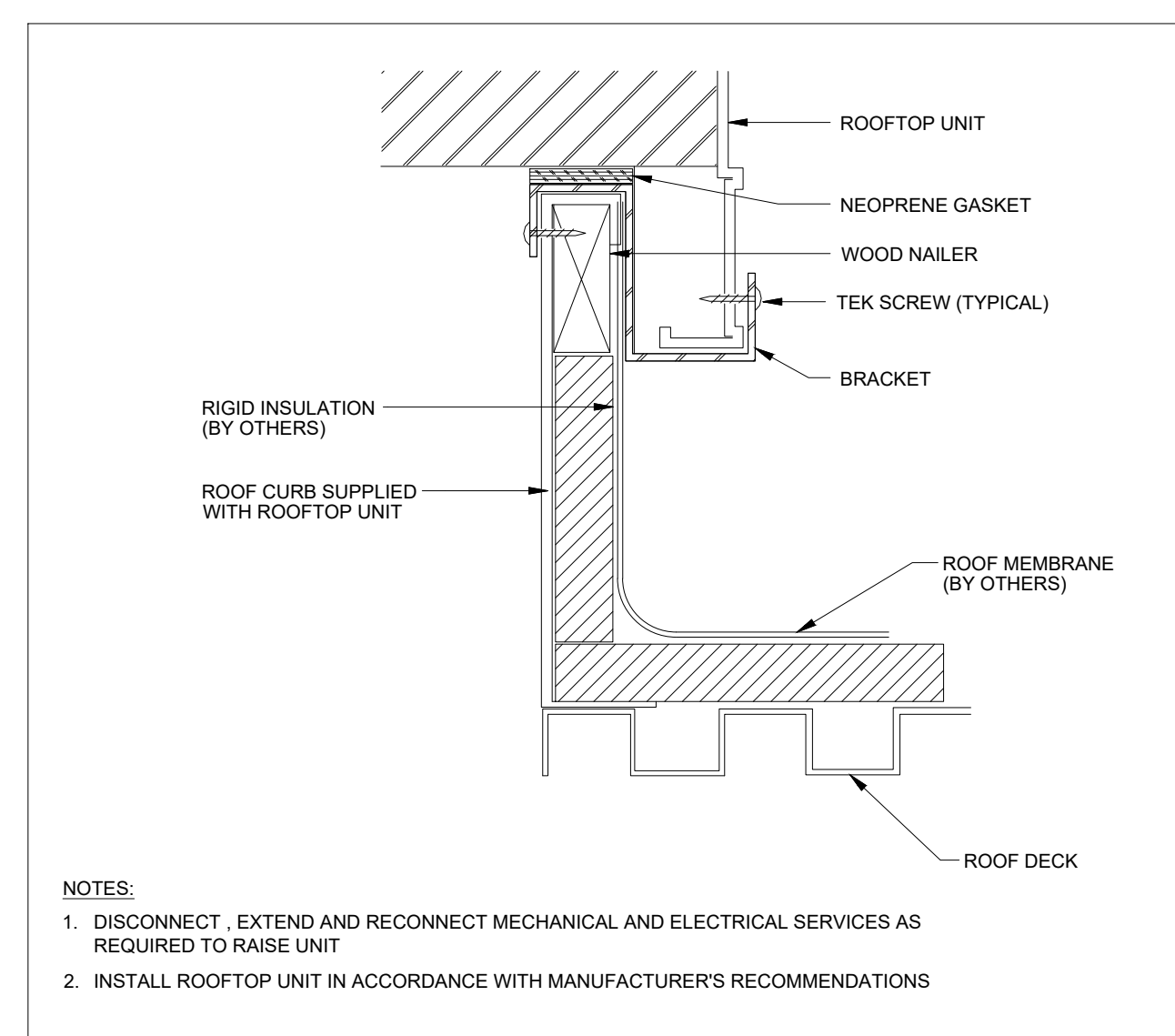
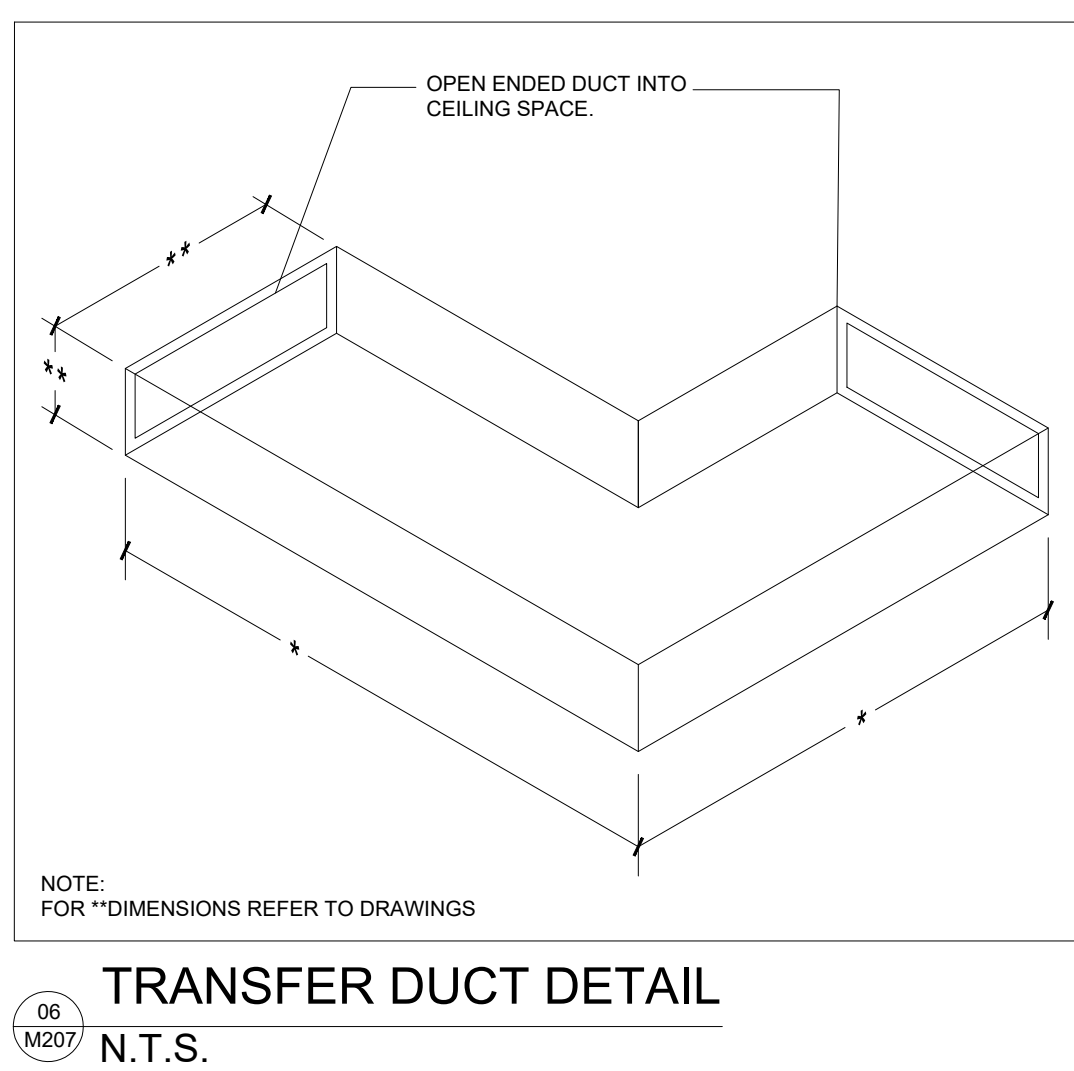
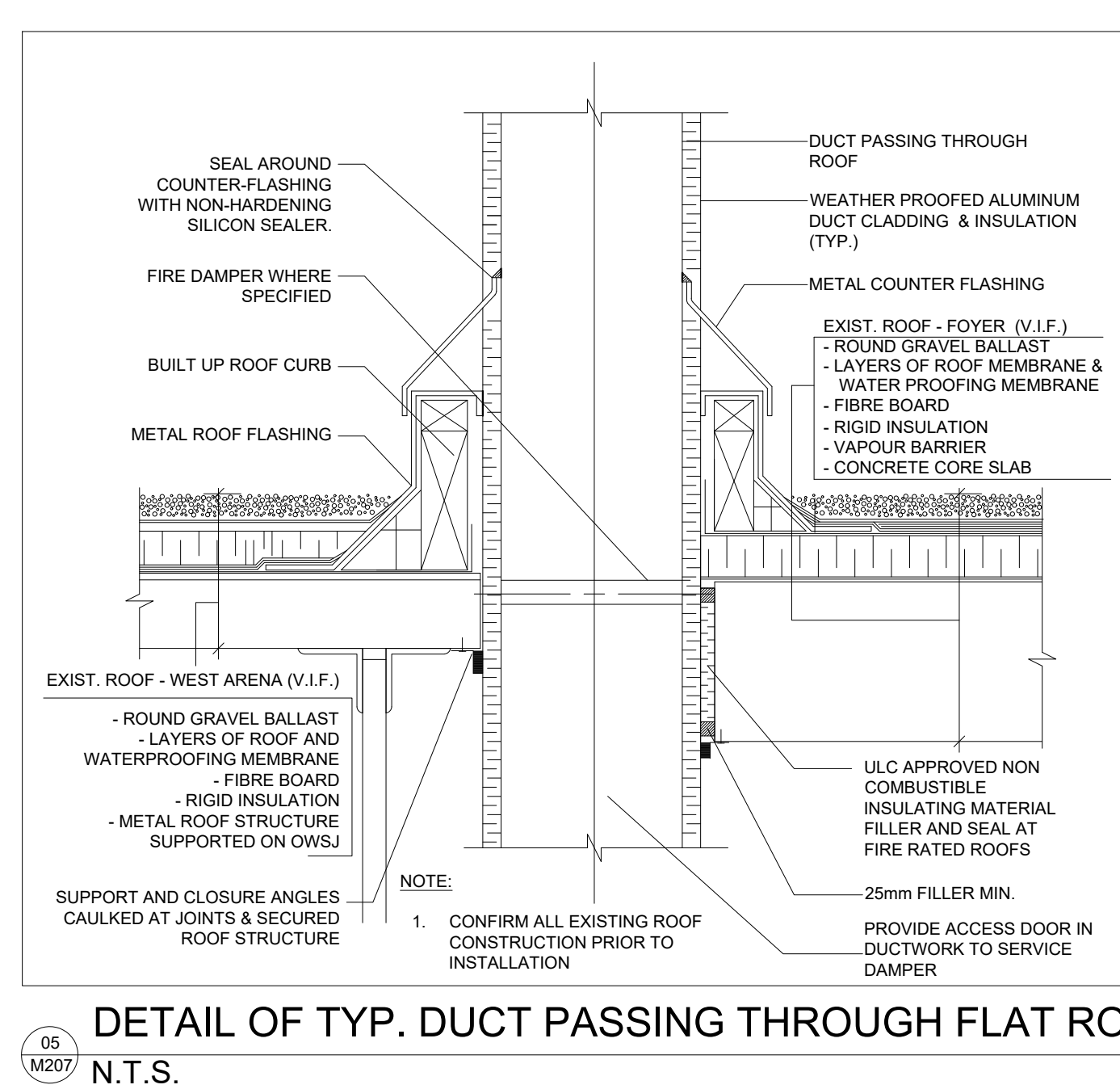
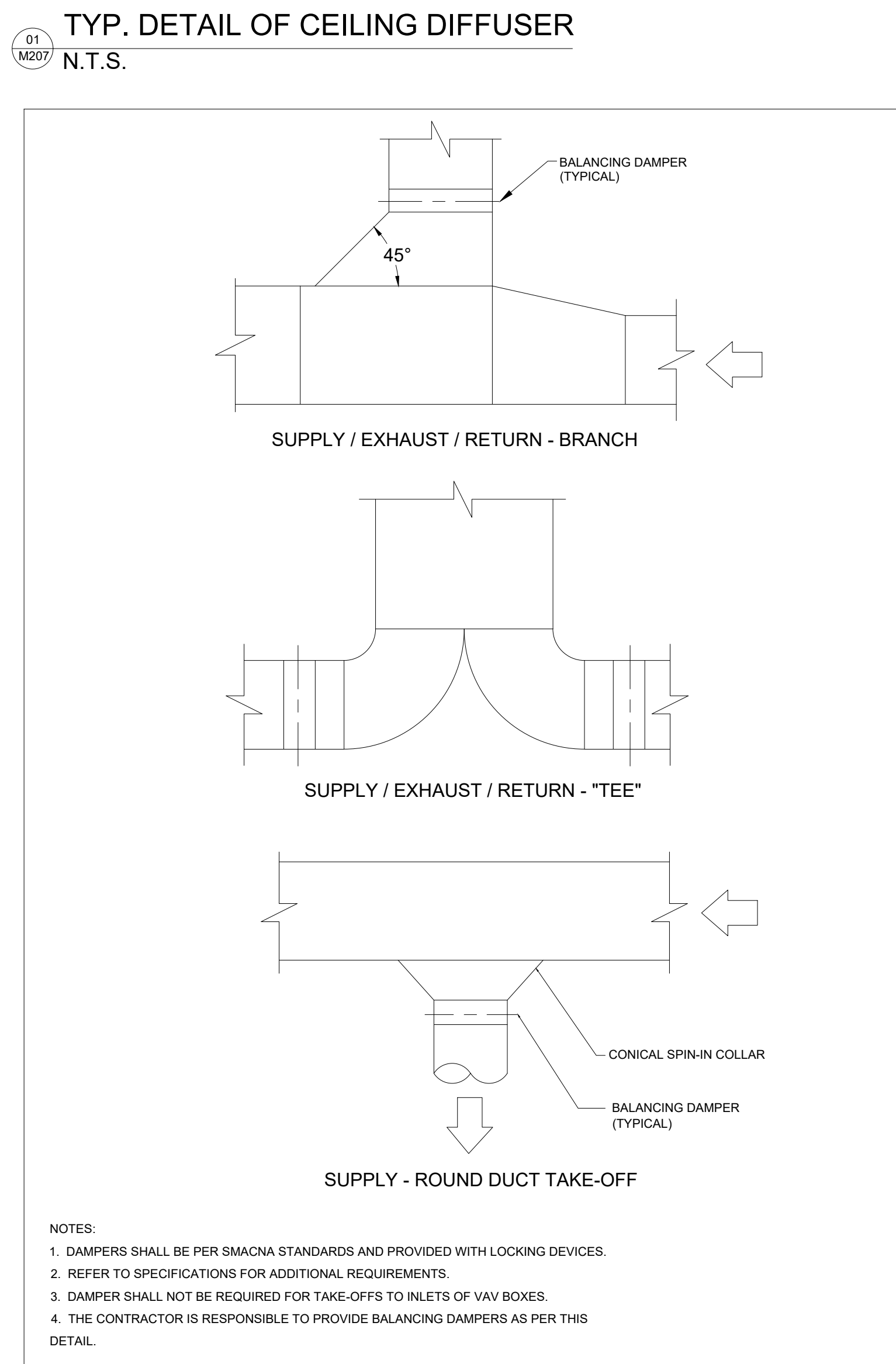
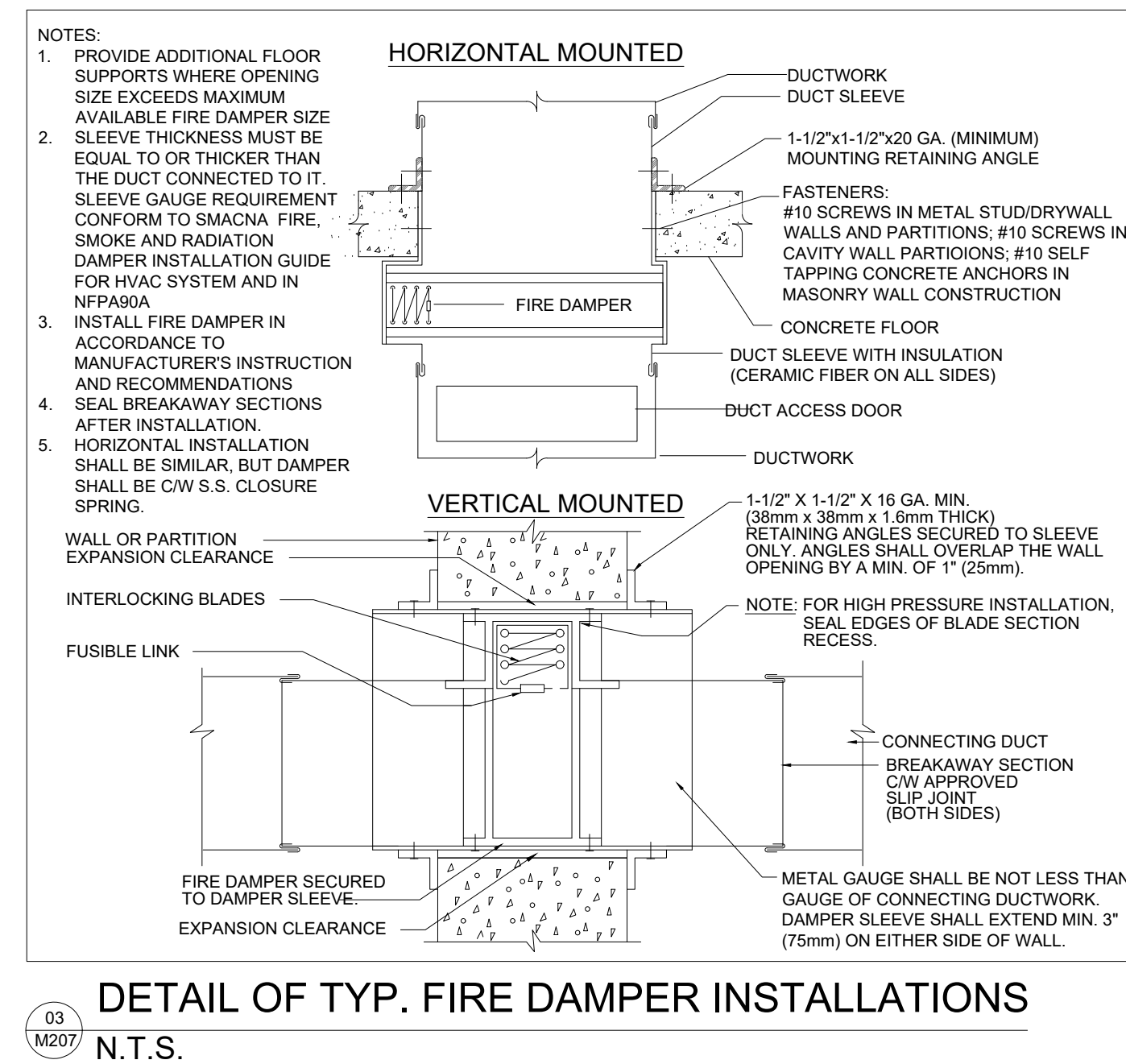
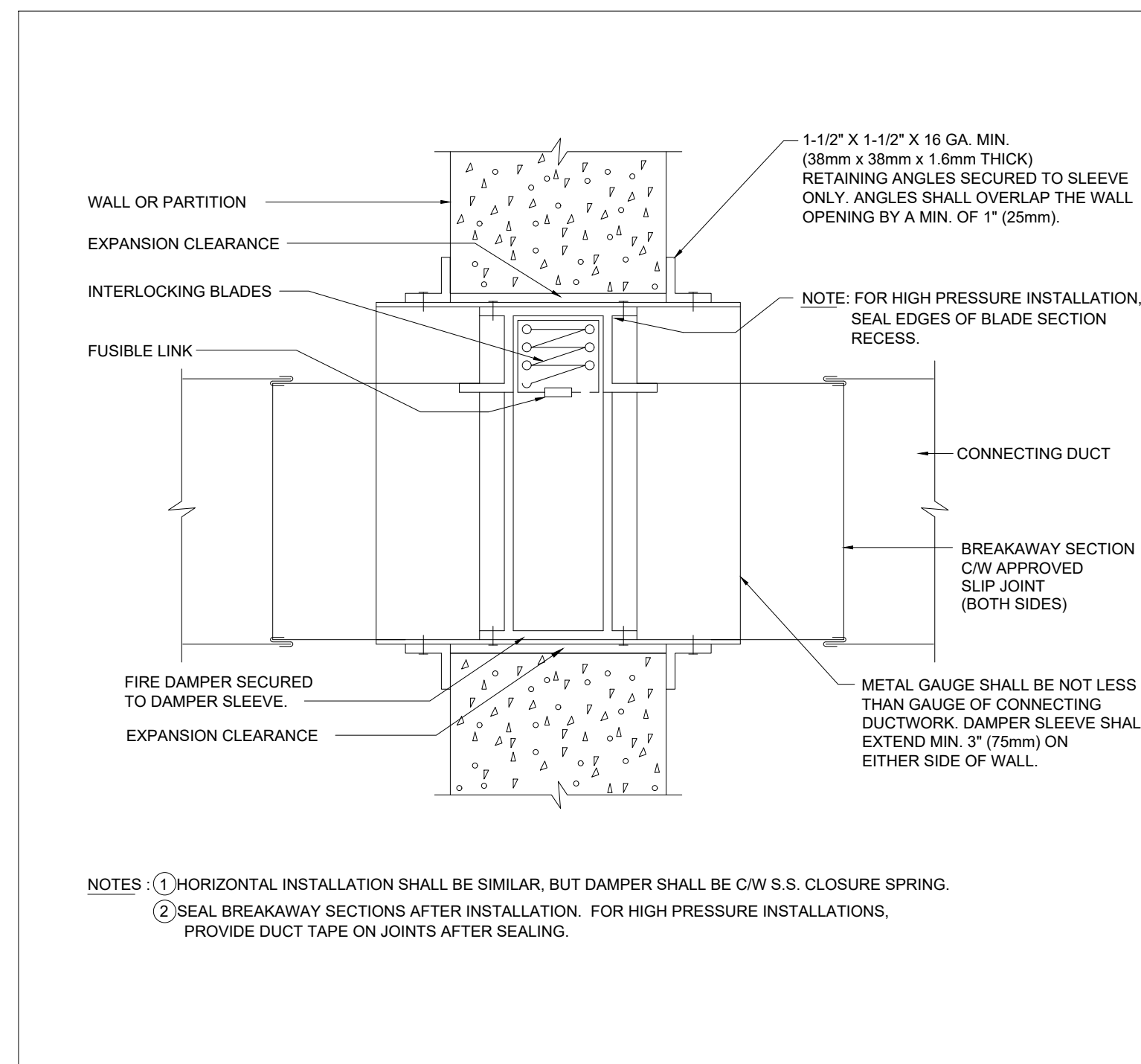
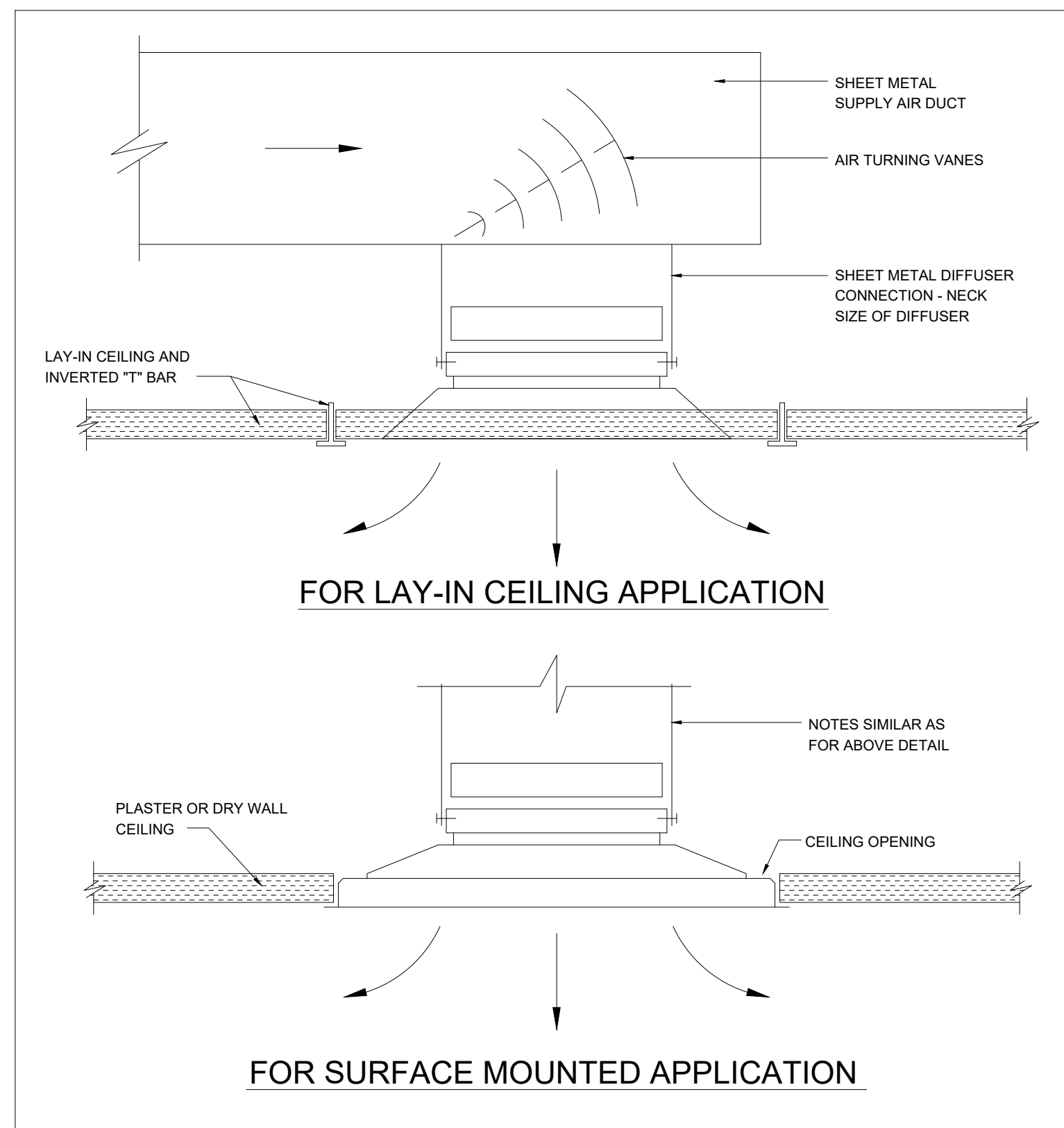
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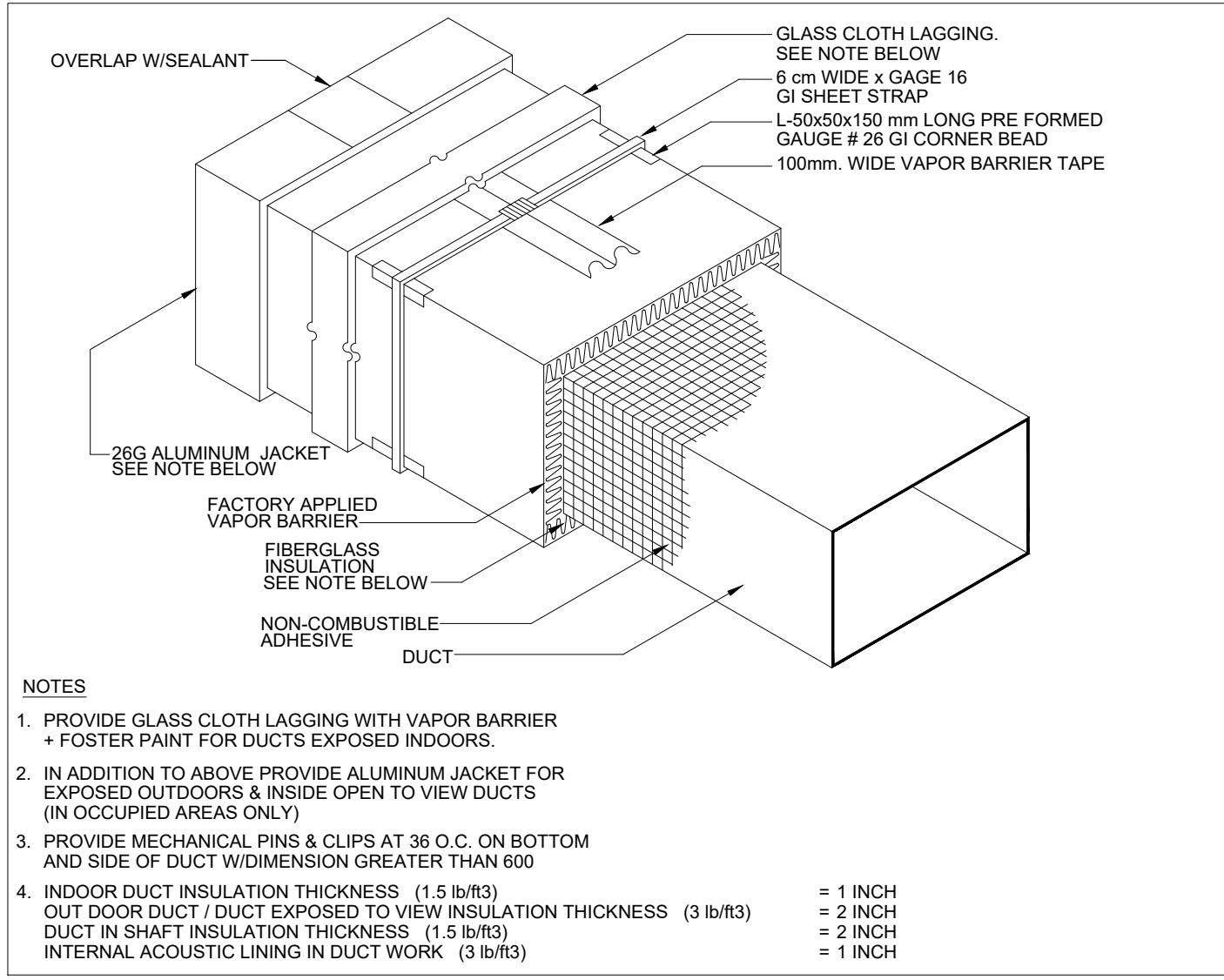


NO.	DATE	ISSUED
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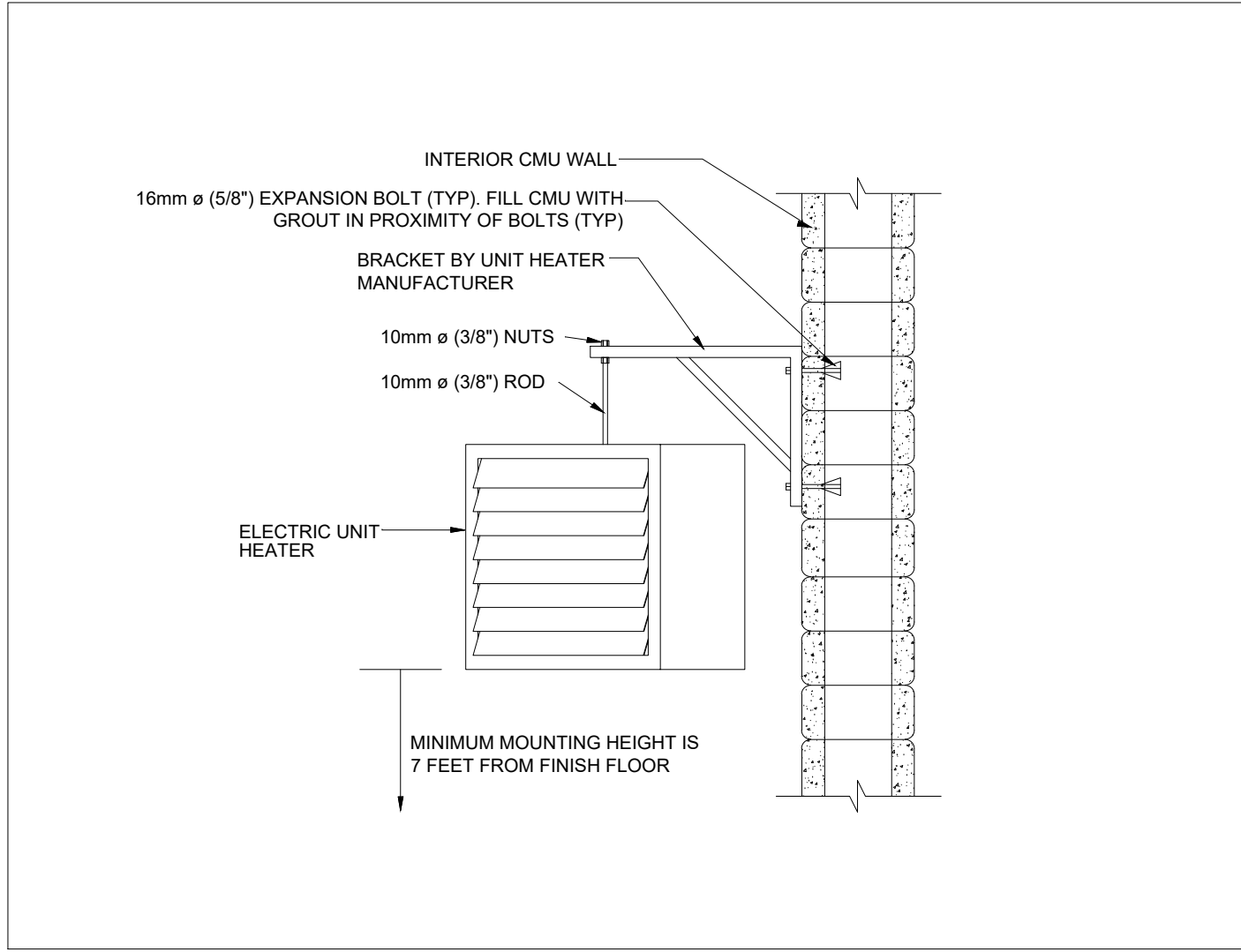
**CONNOR BUILDING
RENOVATIONS**

ROOF HVAC - NEW WORK

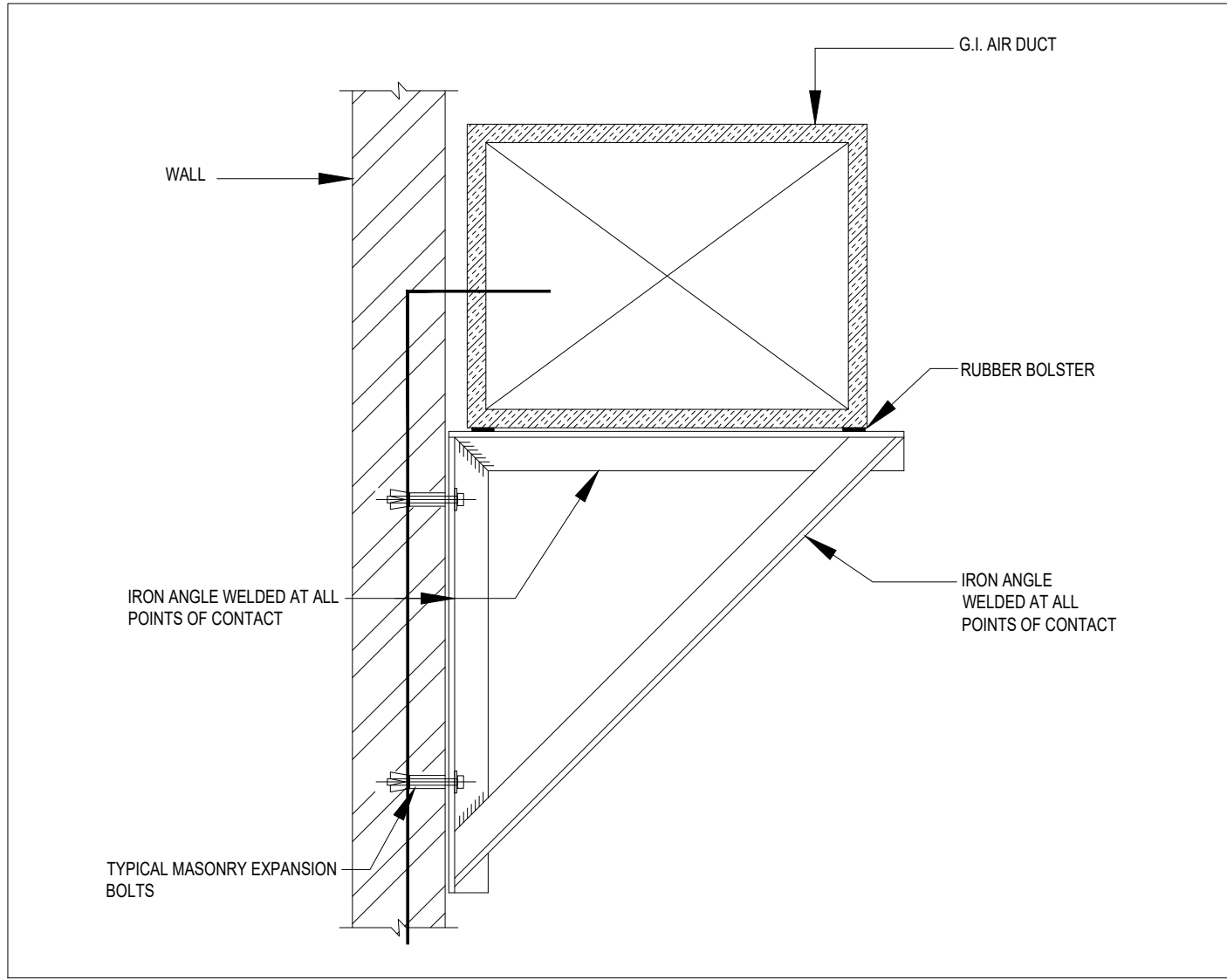




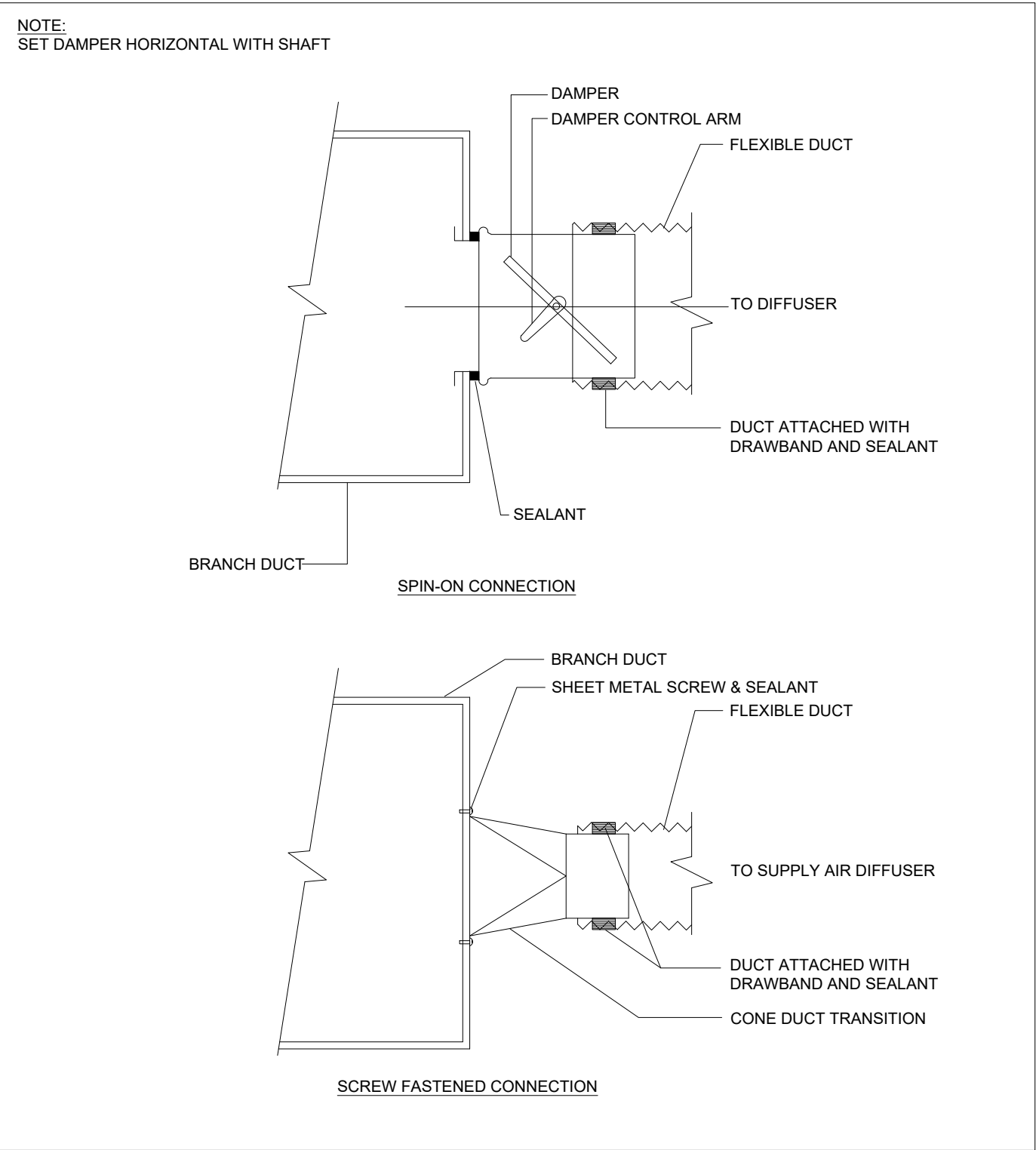
DUCT INSULATION DETAIL
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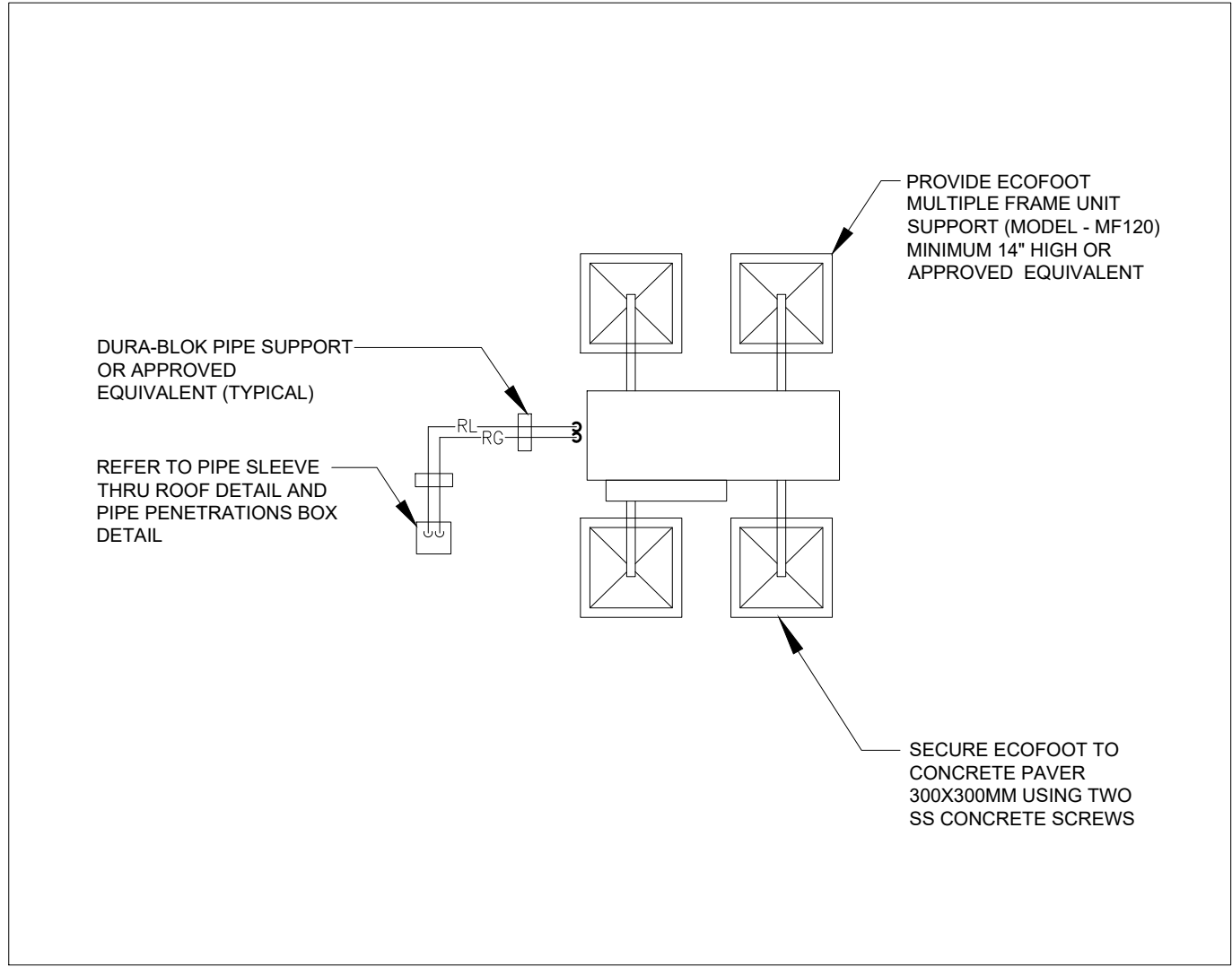
UNIT HEATER DETAILS
N.T.S.



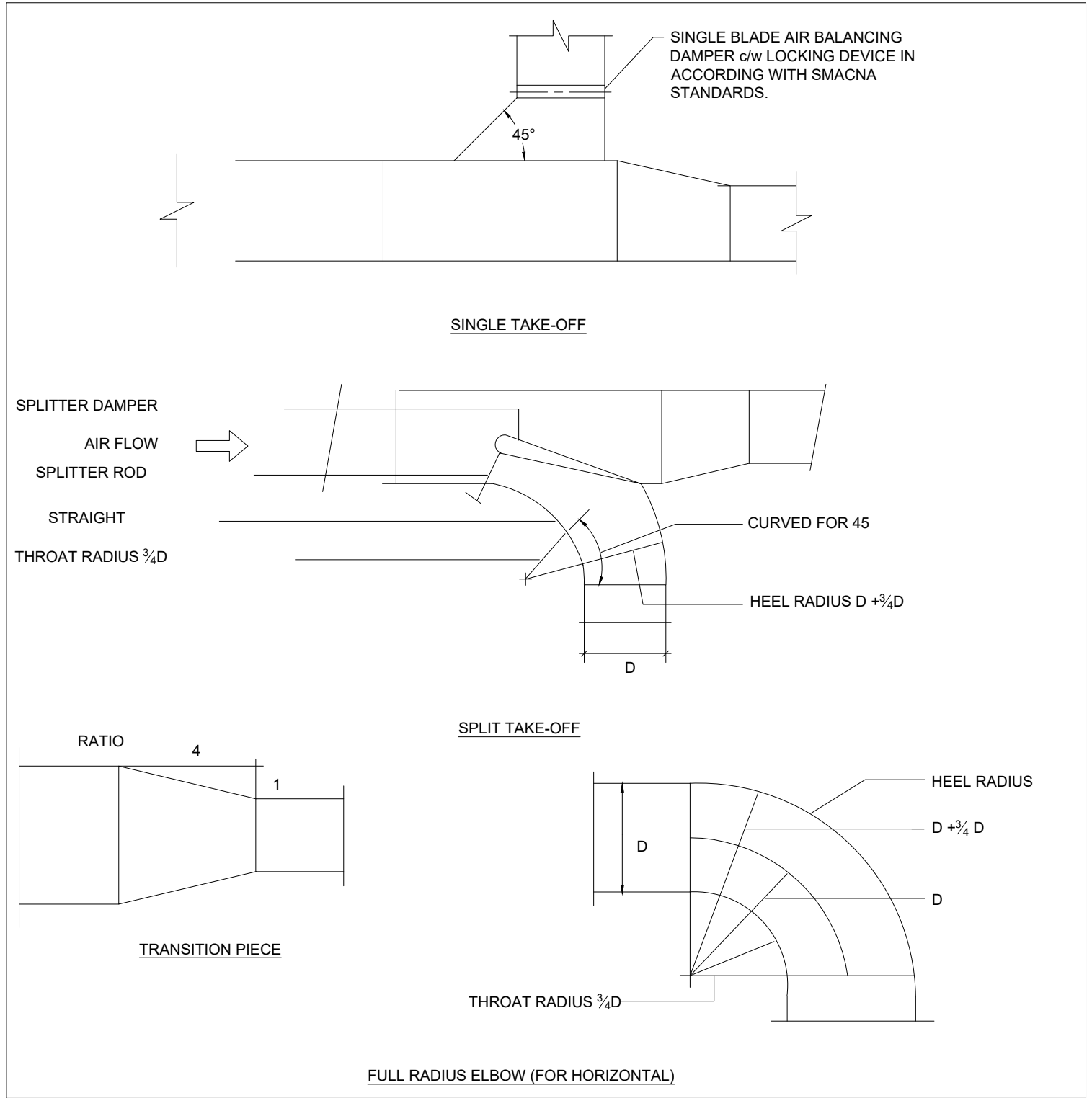
DUCT SUPPORT DETAIL
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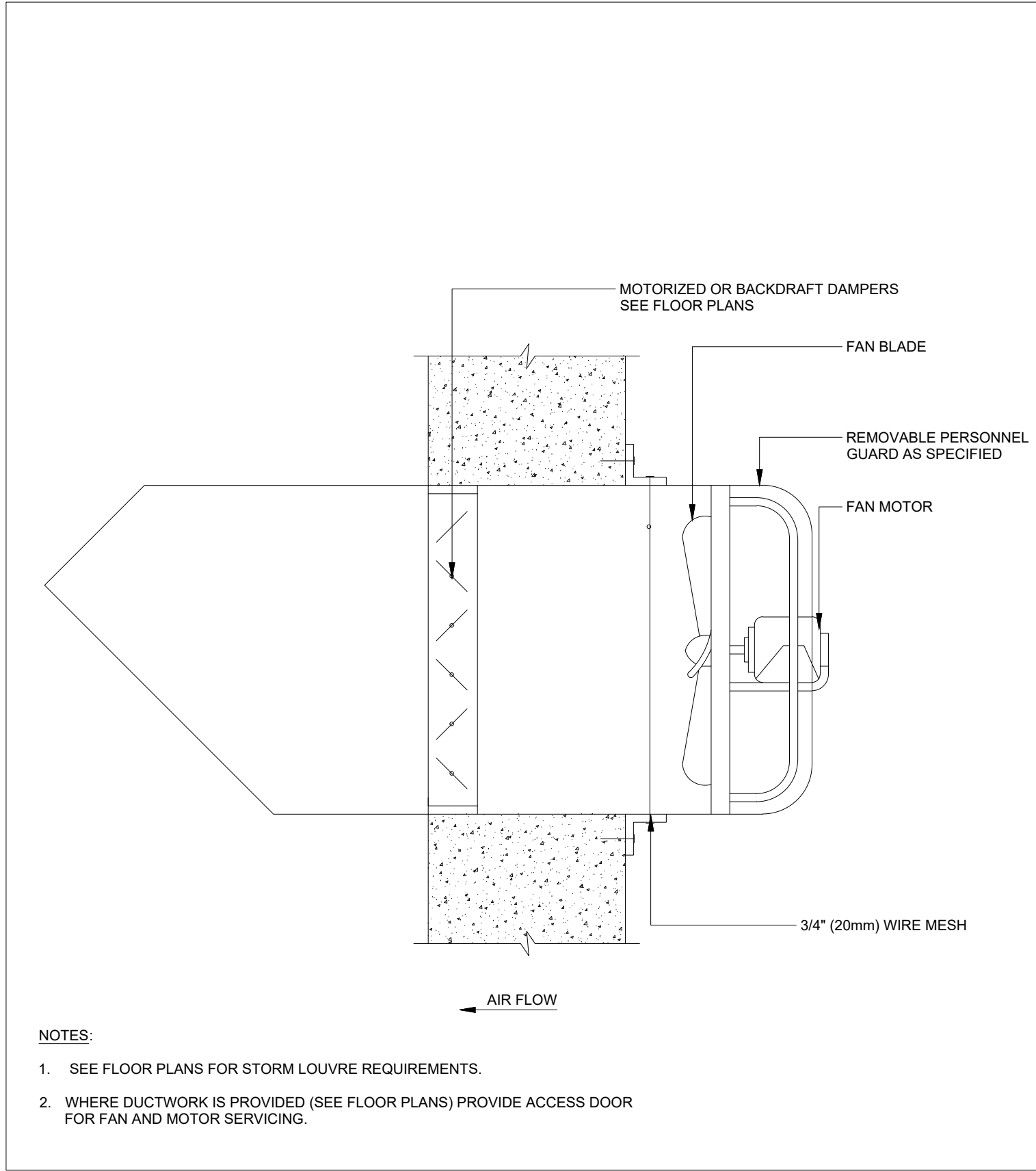
DUCT CONNECTIONS
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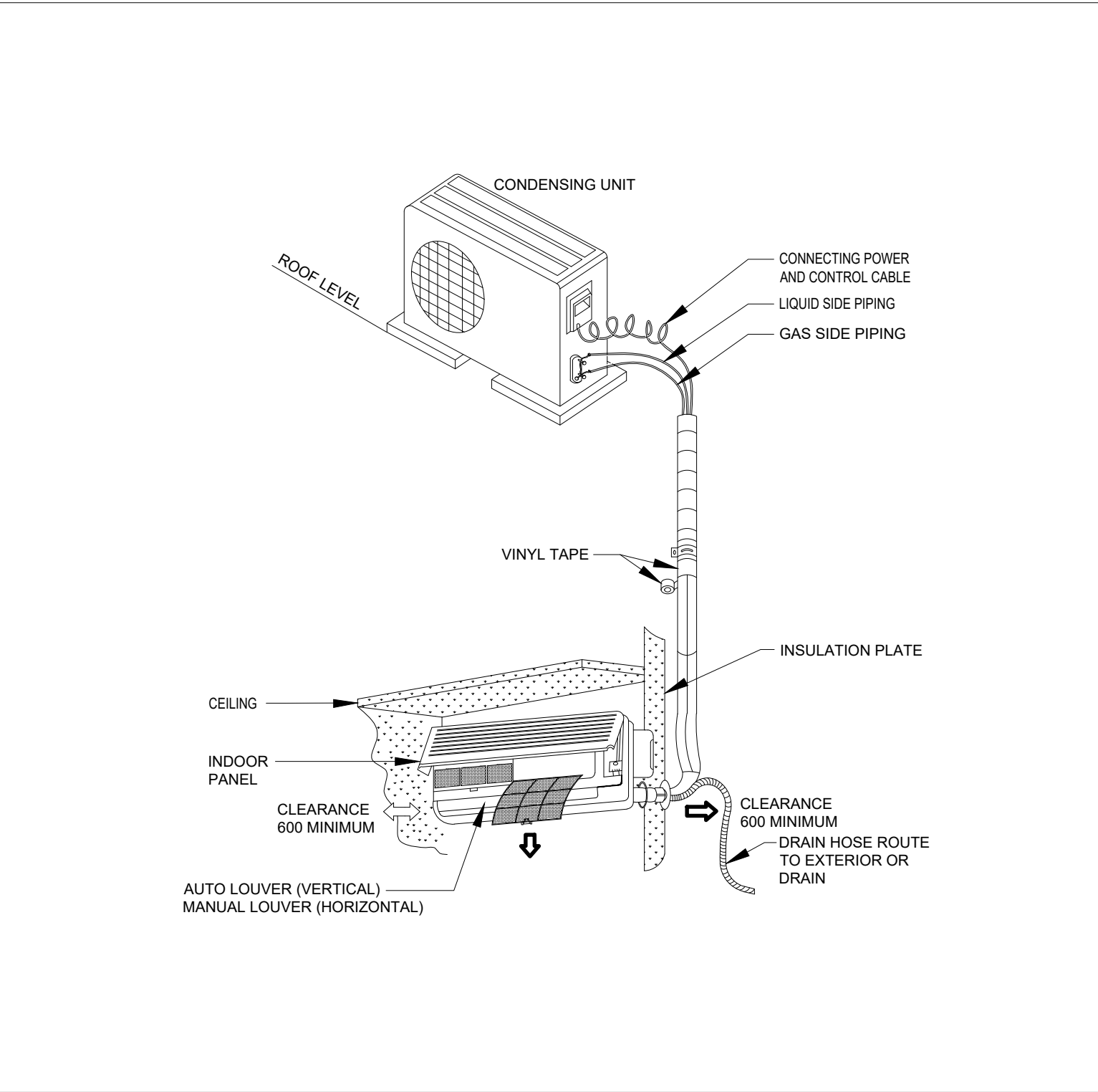
SPLIT SYSTEM AIR CONDITIONING
UNIT MECHANICAL DETAILS (CU ON ROOF)
N.T.S.



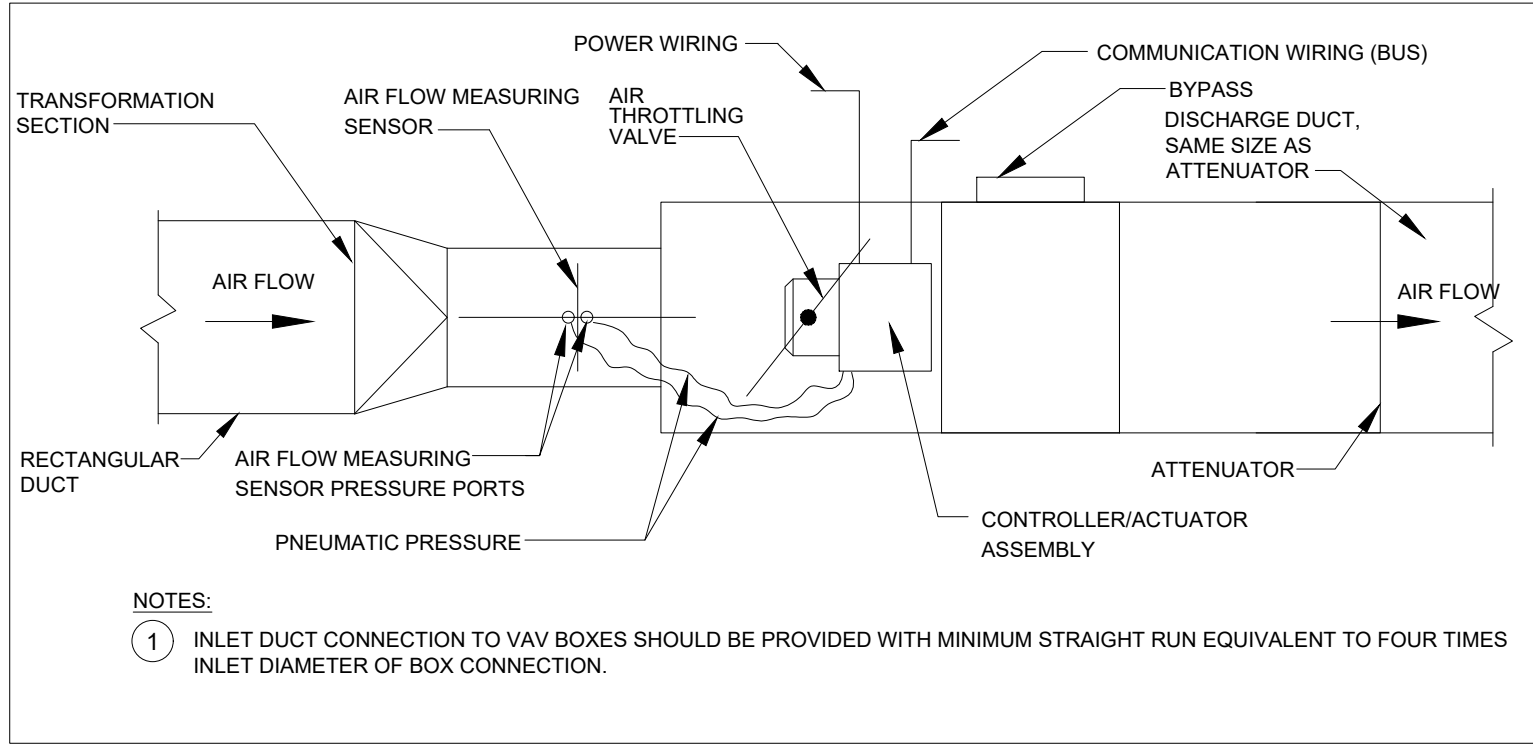
DUCT DETAILS
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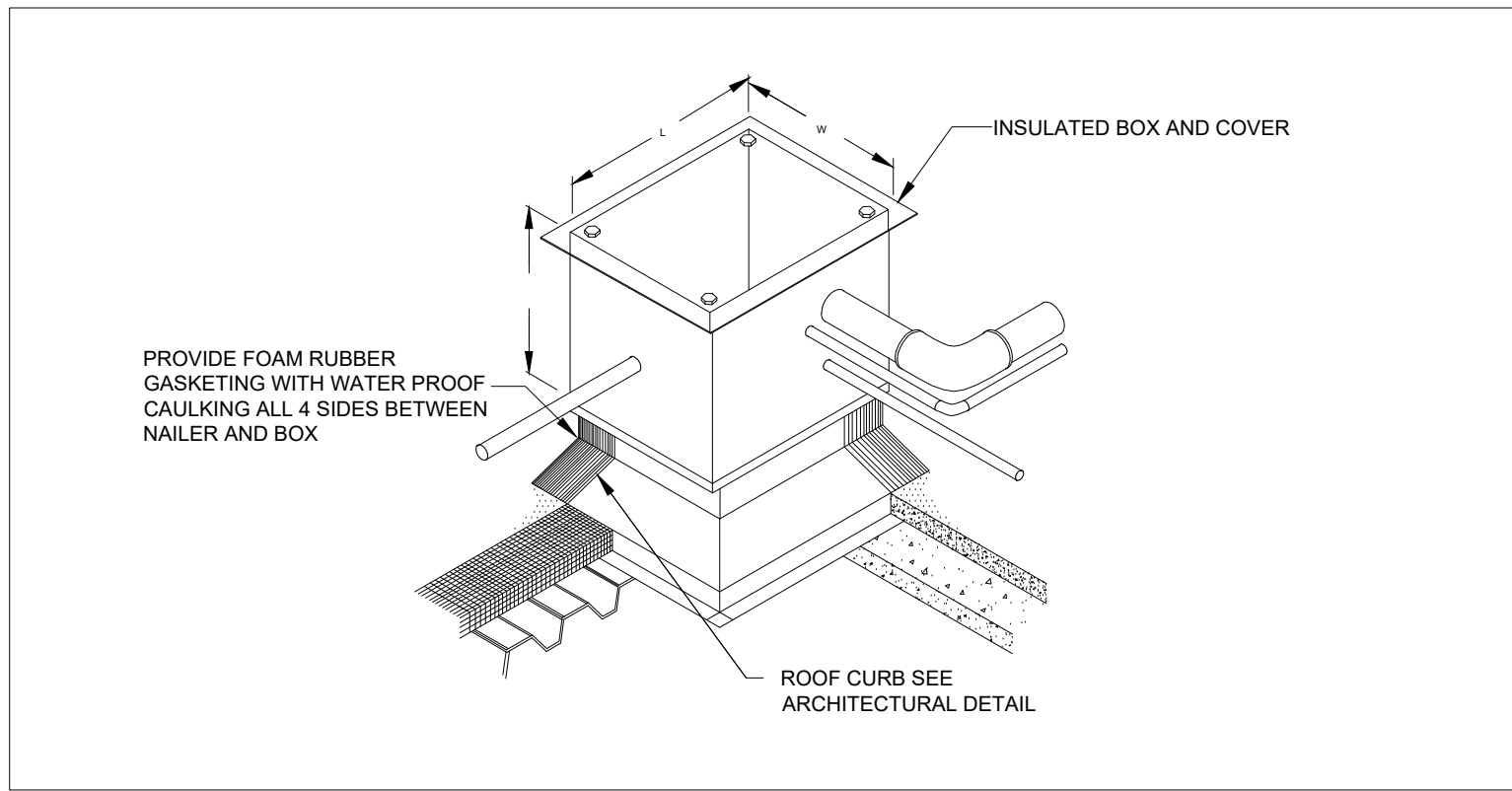
WALL PROPELLER EXHAUST FAN
N.T.S.



SPLIT SYSTEM AIR CONDITIONING
UNIT MECHANICAL DETAILS (CU ON ROOF)
N.T.S.



TYP. DETAIL OF VAV BOX
N.T.S.

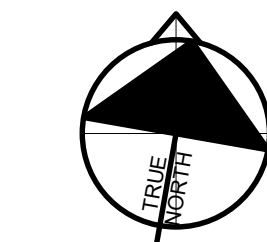


PIPING ROOF PENETRATION BOX DETAIL
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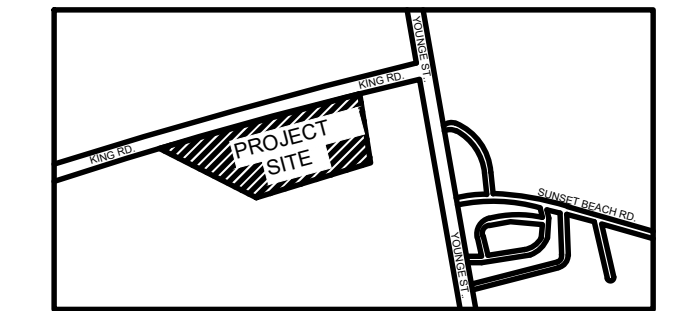


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PROJECT NO.: CAD011757-0343 CONTRACT NO.

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PROJECT

CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

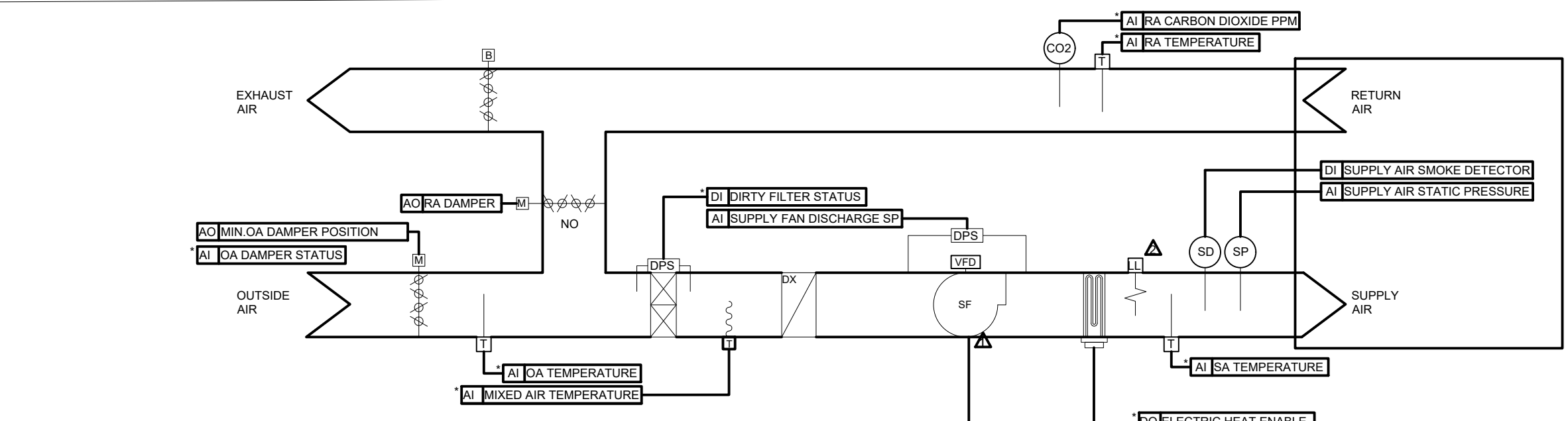
STANDARD DETAILS - 2

N.T.S.

DRAWING NO.

M208

PRINT DATE: 2025-01-07 3:49:26 PM



NOTES:

▲ PROVIDE A CURRENT SENSING TRANSDUCER FOR STATUS, OVERCURRENT, AND UNDERCURRENT SENSING. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

▲ LOW LIMIT THERMOSTAT SHALL BE WIRED IN SERIES WITH THE FAN CONTROL CIRCUIT AND SHALL PREVENT THE FANS FROM STARTING WHEN THE LOW LIMIT THERMOSTAT IS IN A LOW LIMIT CONDITION. THE LOW LIMIT THERMOSTAT SHALL BE PROVIDED WITH THE UNIT AND PRE-WIRED AND TESTED BY THE UNIT MANUFACTURER. THE LOW LIMIT THERMOSTAT SHALL BE AUTO RESET.

SEQUENCE OF OPERATION:

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BAS SHALL SEND THE CONTROLLER AN OCCUPIED OR UNOCCUPIED COMMAND. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED:

DURING OCCUPIED MODE, THE SUPPLY FAN SHALL RUN CONTINUOUSLY. MIXED AIR DAMPERS SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS.

THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE DYNAMICALLY RESET BASED ON THE DEVIATION OF ACTUAL SPACE TEMPERATURE FROM THE ACTIVE SPACE TEMPERATURE SETPOINT.

OPTIMAL START:

THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS.

OPTIMAL STOP:

THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE, THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT. THE OUTSIDE AIR DAMPER SHALL REMAIN ENABLED TO PROVIDE MINIMUM VENTILATION.

OCCUPIED BYPASS:

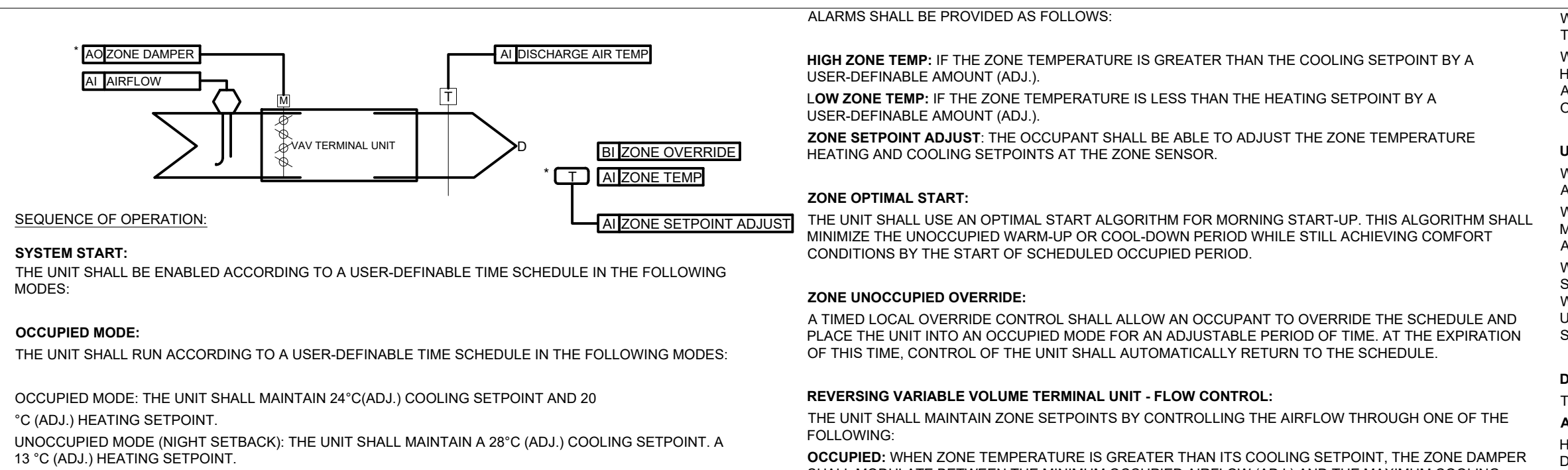
THE BAS SHALL MONITOR THE STATUS OF THE ON AND CANCEL BUTTONS OF THE RETURN AIR TEMPERATURE SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR/BAS, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

HEAT/COOL MODE:

THE HEAT PUMP COMPRESSOR STAGES MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE. THE REVERSING VALVES OPERATE IN COOLING OR HEATING MODE TO SATISFY A COOLING OR HEATING REQUIREMENT. IF COMPRESSOR HEATING IS NOT SUFFICIENT TO MEET THE DEMAND, OR IF COMPRESSOR HEATING IS NOT AVAILABLE, THE CONTROLLER SHALL ACTIVATE SUPPLEMENTAL ELECTRIC HEATING.

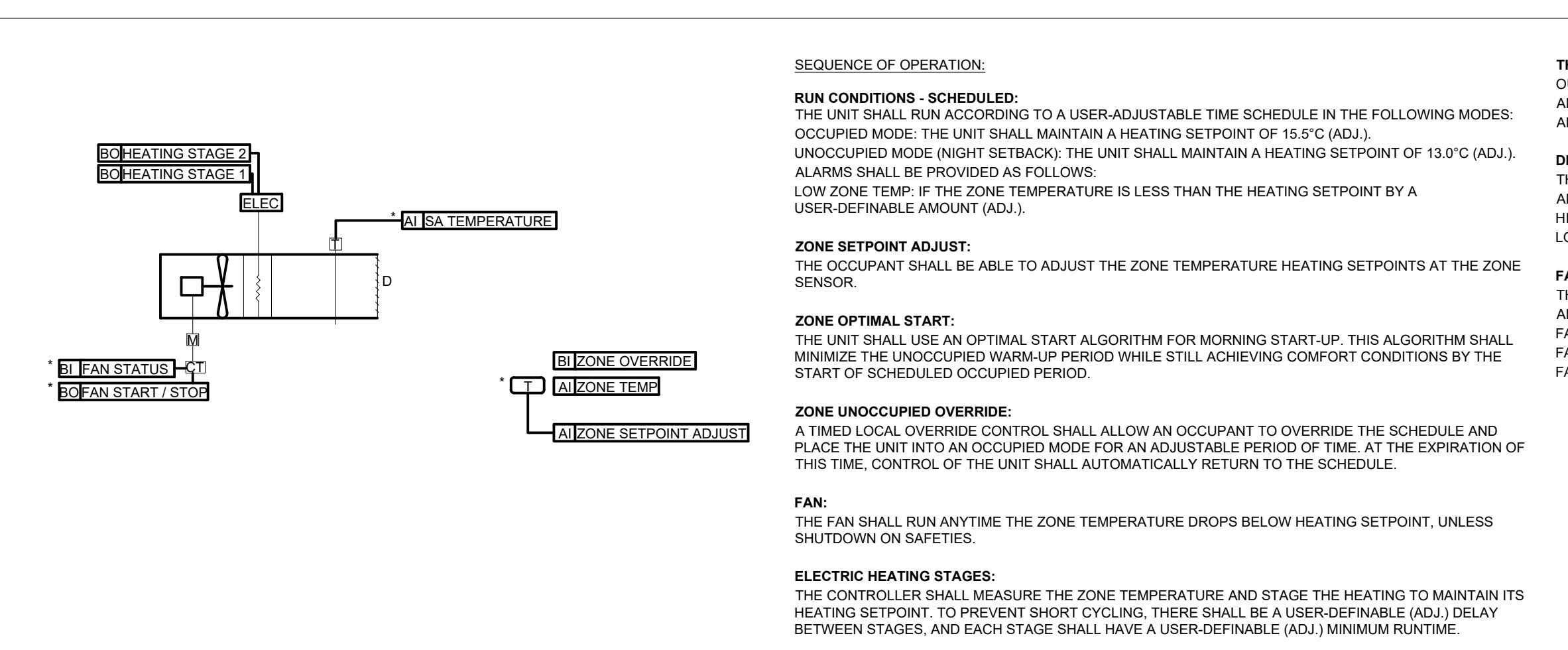
RTU CONTROL SCHEMATIC

N.T.S.



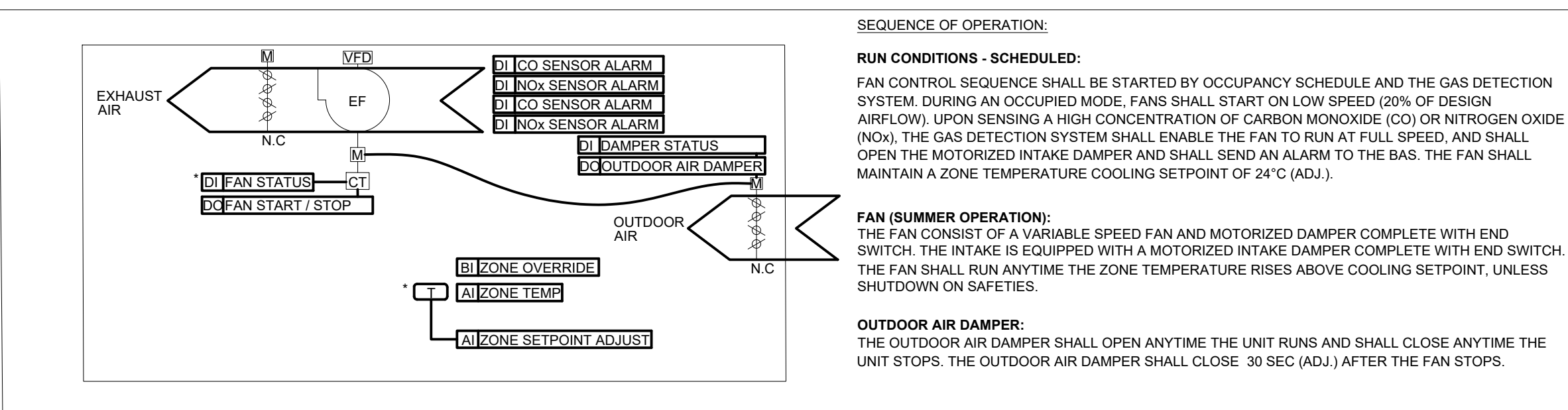
VAV CONTROL SCHEMATIC

N.T.S.



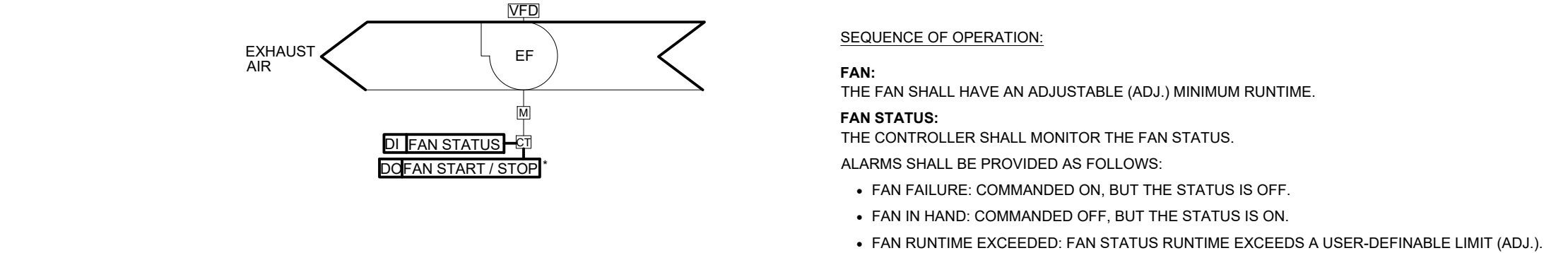
UNIT HEATERS UH-1, UH-2, UH-3 & UH-4 CONTROLS SCHEMATIC

N.T.S.



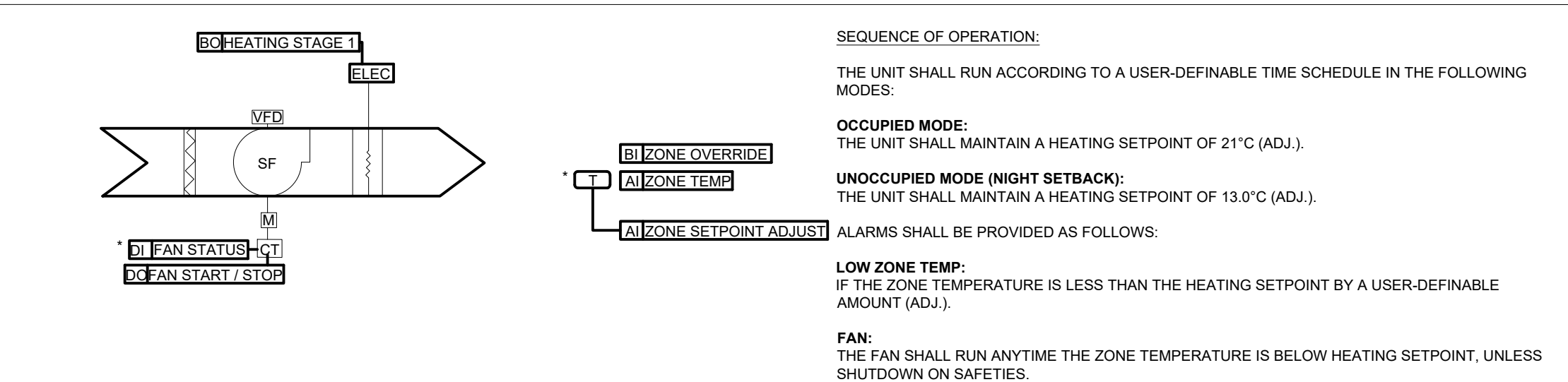
EXHAUST FANS EF-1 & EF-2 CONTROLS SCHEMATIC

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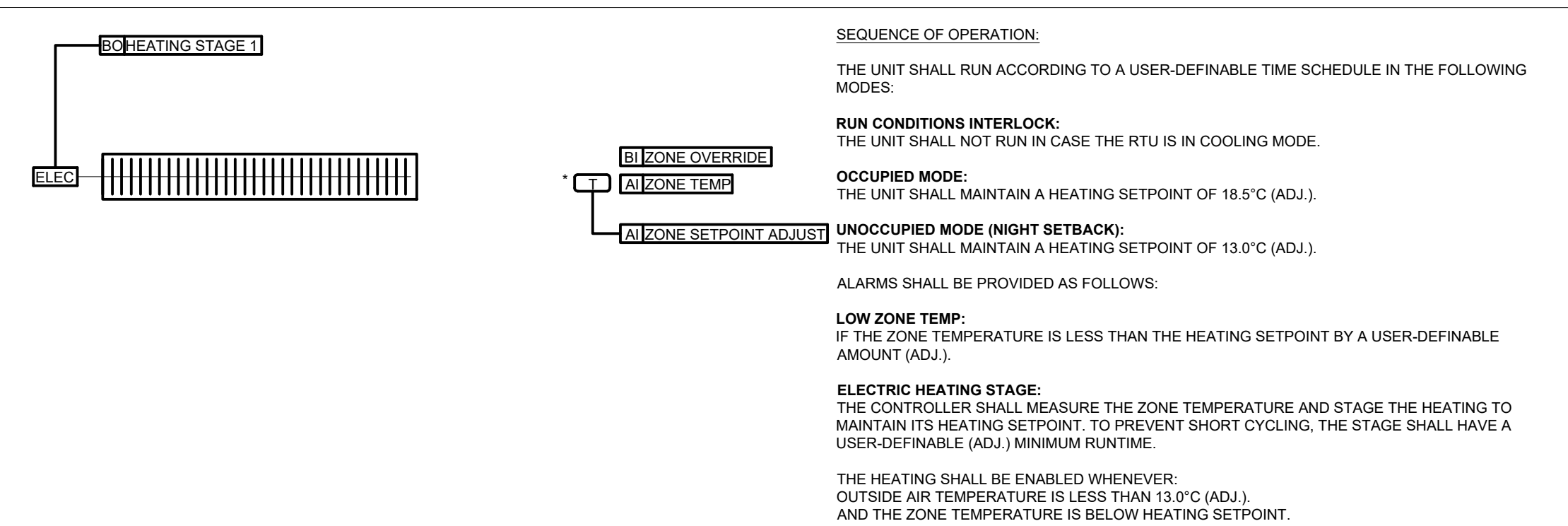
EXHAUST FANS EF-1 & EF-2 CONTROLS SCHEMATIC

N.T.S.



FORCED FLOW HEATER FFH-1 CONTROLS SCHEMATIC

N.T.S.



BASEBOARD HEATERS CONTROLS SCHEMATIC

N.T.S.

- GENERAL CONTROL NOTES:**
- BAS CONTRACTOR SHALL PROVIDE NEW BAS SYSTEM. BIDDERS SHALL CARRY ALL COSTS TO ENGAGE BAS CONTRACTOR TO PERFORM ALL SPECIFIED BAS WORK.
 - BAS CONTRACTOR SHALL PROVIDE NEW BAS FRONT END HARDWARE AND SOFTWARE AS NECESSARY FOR NEW USER INTERFACE ALLOWING FOR REMOTE ACCESS TO BAS CONTROLS THROUGH A NETWORK USER INTERFACE ACCESSIBLE BY CITY OF RICHMOND HILL LOCAL INTRANET USING COMMON OPERATING SYSTEMS INCLUDING WINDOWS, MAC, ANDROID AND APPLE DEVICES. INCLUDE TO UPGRADE ALL BUILDING EQUIPMENT WHICH ARE GOING TO BE CONTROLLED THROUGH THE NEW BAS SYSTEM THROUGH NEW REMOTE ACCESSIBLE USER INTERFACE. COORDINATE WITH CITY OF RICHMOND HILL'S IT DEPARTMENT FOR ALL NECESSARY IT HARDWARE TO FACILITATE REMOTE ACCESS TO BAS SYSTEMS. THE ACCEPTABLE MANUFACTURERS FOR THE BAS ARE JOHNSON CONTROLS AND SIEMENS. NEW BAS SHALL BE COMPATIBLE WITH EXISTING DEPLOYED SIEMENS OR JOHNSON CONTROLS BAS ENVIRONMENT AT CITY FACILITIES. SYSTEM SHALL UTILIZE BACNET COMMUNICATION FOR THE MAIN IP COMMUNICATION FRANK TO THE CENTRAL SERVER AND FOR PEER-TO-PEER COMMUNICATION BETWEEN DDC PANELS AND ALL FIELD DEVICES.
 - COORDINATE FINAL INSTALLATION POSITION (INCLUDING HEIGHT A.F.F.) OF EACH CONTROL DEVICE (THERMOSTAT, TEMPERATURE SENSOR, HUMIDISTAT, ETC.) THAT ARE LOCATED ON WALLS, GELNOS, FLOORS, ETC. IN ALL AREAS (EXCLUDING SERVICE AREAS) ON SITE, PRIOR TO ROUGH-IN.
 - CONTROLS CONTRACTOR TO CONNECT FIRE ALARM PANEL TO BAS FOR MONITORING PURPOSES ONLY.
 - THE ASTERISK DENOTES THAT THE CONTROL SEQUENCE AND CONTROL POINTS TO BE BY HVAC MANUFACTURER BACNET CONTROLLER AND SHALL COMMUNICATE WITH THE BAS FOR REMOTE MONITORING AND CONTROL. BAS SHALL BE CAPABLE OF ENABLING AND DISABLING THE UNIT THROUGH A TIME SCHEDULE. CHANGE SETPOINTS, READ ALARMS, ETC.

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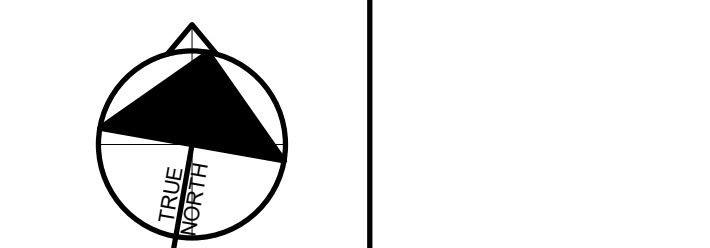
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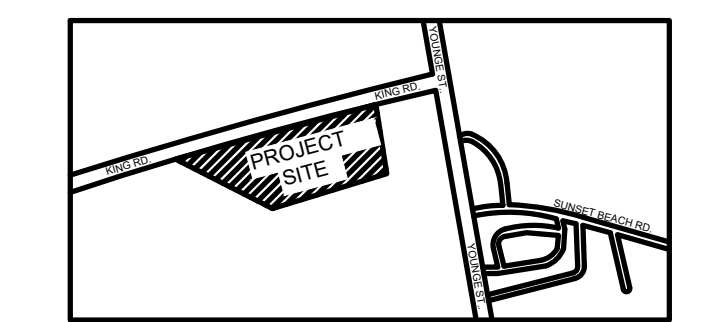
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THIS BAR IS 25mm LONG WHEN PLOTTED AT
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NORTH ARROW: DIGITAL REFERENCE:



PROJECT NO.: CAD011757-0363 CONTRACT NO.
DRAWN BY: VO CHECKED BY: BK APPROVED BY: AR
REPLAN:



CONNOR BUILDING RENOVATIONS

DRAWING TITLE

CONTROL SCHEMATICS

N.T.S.

DRAWING NO.

M209

SCHEDULE OF OUTDOOR HTG AND COOLING UNIT (ROOFTOP UNITS)															
TAG	LOCATION	HEATING MEDIUM	MANUFACTURER	MODEL	UNIT SIZE	AIR FLOW (L/s)	E.S.P (Pa)	COOLING (kW)		HEATING		ELECTRICAL			REMARKS
								SENSIBLE	TOTAL	INPUT (kW)	OUTPUT (kW)	EER	MCA (A)	MOCP (A)	VOLT/PH/Hz
RTU-1	ROOF	ELECTRIC HEAT/HEAT PUMP	TRANE	WSK090A350N**D2E0A	7.5 T	1376	315	22.55	25.19	36	36	11	136	150	208-230/3/60
NOTES: 1. PROVIDE NEW ROOFTOP UNITS CW BELOW-MENTIONED SYSTEM OPTIONS FACTORY INSTALLED: ZINC COATED HEAVY GAUGE, GALVANIZED STEEL, REMOVABLE SINGLE SIDE MAINTENANCE ACCESS PANELS,BASE INSULATED WITH 3.175 MM. FOIL-FACED CLOSED CELL INSULATION,ECONOMIZER DB WITH BAROMETRIC RELIEF, REFRIGERANT R-454B, HINGED SERVICE ACCESS/FILTERS, HINGED ACCESS PANELS WITH 2-IN MERV 13, THROUGH THE BASE PROVISIONS. ELECTRIC, DISCONNECT/CIRCUIT BREAKER, NON-FUSED DISCONNECT SWITCH, CONVENIENCE OUTLET, UNPOWERED 20A CONVENIENCE OUTLET, PHASE MONITOR, HINGED ACCESS PANELS, 20A GF1 RATED UTILITY, FACTORY DISCONNECT, DIRECT DRIVEN SUPPLY AIR FAN, FIELD INSTALLED, 2 IN MERV8 FILTER (DURING CONSTRUCTION), 2 IN MERV13 FILTER (AFTER CONSTRUCTION), RETURN AIR PANEL KIT, GI DRAIN, CONDENSER RAIL GUARDS, UNIT SHALL BE CW 30.0m OF PLENUM RATED CABLE FOR SENSORS, PROVIDE THERMOSTAT AND UNIT CONTROLLER MODEL# SYMBIO 700, CONTRACTOR TO INCLUDE AN EOC GUIDED SET UP AND THIRD-PARTY COMMISSIONING.															

SCHEDULE OF NEW EXHAUST FANS													REMARKS
TAG	DESCRIPTION	MANUFACTURER	MODEL	AREA SERVED	QTY.	AIR FLOW L/s	ESP Pa	POWER (W)	SPEED (RPM)	ELECTRICAL DATA			
										VOLTAGE (V)	PHASE	FREQUENCY (HZ)	
EF-1	INLINE CABINET FAN	GREENHECK	CSP-A300	GROUND FLOOR WASHROOMS	1	120	124.54	78	1139	115	1	60	SEE NOTE 1
EF-2	BATHROOM EXHAUST FAN	GREENHECK	SP-A110-QD	SECOND FLOOR WASHROOM	1	35	74.72	18.5	950	115	1	60	SEE NOTE 2
EF-3,4	GARAGE EXHAUST FAN	GREENHECK	SE-1-14-440-VG	GROUND FLOOR GARAGE	2	550	106	190	1725	115	1	60	SEE NOTE 3
NOTES: 1. CORROSION RESISTANT GALVANIZED STEEL SCROLL AND HOUSING - SOUND ABSORBING INSULATION - RECTANGULAR INLET AND OUTLET DUCT COLLAR - OUTLET WITH INTEGRAL SPRING LOADED BACK DRAFT DAMPER - DOUBLE INLET FORWARD CURVED WHEEL - PLUG TYPE DISCONNECT - ADJUSTABLE MOUNTING BRACKETS - FIELD ROTATABLE DISCHARGE 2. DIRECT DRIVE POLYPROPYLENE CENTRIFUGAL WHEEL IMPELLER WHICH INCLUDES BACKDRAFT DAMPER AND MOUNTING BRACKETS 3. SIDE WALL DIRECT DRIVE FAN PANELS OF GALVANIZED STEEL - ALUMINUM BLADE PROPELLER - DIE FORMED, GALVANIZED STEEL DRIVE FRAME ASSEMBLY - CORROSION RESISTANT FASTENERS, PROVIDE GREENHECK VERTICAL MOUNT EXHAUST DAMPER, 45° WEATHERHOOD WITH GALVANIZED STEEL AND 0.5 WELDED WIRE BIRDSCREEN, PROVIDE HOA VERT-GREEN CONTROLLER.													

SCHEDULE OF VARIABLE AIR VOLUME BOXES (E.H.PRICE)										
UNIT TAG	AREA SERVED	ASSOCIATED RTU	MODEL NO	SIZE	AIR FLOW RANGE (L/s)		MAX DISCHARGE N.C WITH ATTENUATOR	INLET SIZE (MM)	DIMENSIONS (LxBxH) (MM)	REMARKS
					MIN	MAX				
VAV - 01	PRICE	RTU-01	SDVLP	8	60	380	-	200x200	1042x445x250	1,2,3
VAV - 02	PRICE	RTU-01	SDVLP	10	100	640	20	250x250	1042x445x250	1,2,3
VAV - 03	PRICE	RTU-01	SDVLP	10	100	640	20	250x250	1042x445x250	1,2,3
NOTES: 1. ALL VAV BOXES SHALL BE COMPLETE WITH DEDICATED ROOM TEMPERATURE SENSOR, AS SHOWN IN THE PLANS 2. V.A.V. BOX SHALL BE PRESSURE INDEPENDENT, COMPLETE WITH CROSS FLOW SENSOR, V.A.V. BOXES SHALL BE CONTROLLED THROUGH THE DDC SYSTEM 3. DDC CONTROLLER/ACTUATOR SHALL BE SUPPLIED BY BAS CONTRACTOR AND INSTALLED & CALIBRATED BY V.A.V. BOX MANUFACTURER.										

UNIT HEATER SCHEDULE													
TAG	MANUFACTURER	MODEL - SIZE	AREA SERVED	FAN MOTOR INPUT (kW)	HEATING OUTPUT (kW)	V/PH/Hz	MOF CONTROL AMP@ 24V	MCA,3PH	MIN. FLOW (L/S)	MAX. FLOW (L/S)	FAN SIZE (MM)	TEMP. RISE MIN / MAX (°C)	WEIGHT (KG)
UH-1	REZNOR	AK20	GARAGE	0.10	15.0	208/3/60	40	1.6 A	32.5	125	575	300	21
UH-2	REZNOR	AK20	GARAGE EXTENSION	0.10	15.0	208/3/60	40	1.6 A	32.5	125	575	300	21
UH-3	REZNOR	AK20	GARAGE EXTENSION	0.10	15.0	208/3/60	40	1.6 A	32.5	125	575	300	21
UH-4	REZNOR	AK20	GARAGE EXTENSION	0.10	15.0	208/3/60	40	1.6 A	32.5	125	575	300	21
UH-5	REZNOR	AK20	SHED	0.10	5	208/3/60	40	1.6 A	32.5	74.5	226	250	21
NOTES: 1. PRINTED GALVANIZED-STEEL CABINET WITH TWO-TONE BLACK AND WHITE GLOSSY SCRATCH RESISTANT PAINT SCHEME 2. ROBUST HOUSING WITH INTEGRATED HORIZONTAL LOUVERS AND REMOVABLE FRONT FACE. 3. CLEAN ROUNDED CORNERS AND EDGES WITH NO VISIBLE SCREWS OR FASTENERS. 4. HINGED ACCESS DOOR PANEL WITH QUARTER TURN LATCH. 5. STANDARD TWO POINT SUSPENSION AND WALL HANGERS. 6. VIBRATION AND NOISE ISOLATED FAN MOTOR DESIGNED FOR LOW NOISE OPERATION. 7. FULL FAN GUARD 8. ENCLOSED STAINLESS STEEL, SHEATHED AND FINNED HEATING ELEMENTS 9. HIGH TEMPERATURE LIMIT CONTROL WITH AUTOMATIC RESET AND AIR PROVIDING SWITCH PROTECTION 10. EXTERNAL TERMINAL STRIP FOR 24V WIRING 11. TWO STAGE OPERATION SO THAT HEATING CAN BE TAILORED TO ACTUAL DEMAND TO REDUCE UNIT CYCLING AND IMPROVE COMFORT 12. UNITS MUST BE INSTALLED WITH CLEARANCES AND IN ACCORDANCE WITH LOCAL BUILDING CODES. 13. UNIT CONTROLLER TO COMMUNICATE WITH THE BAS.													

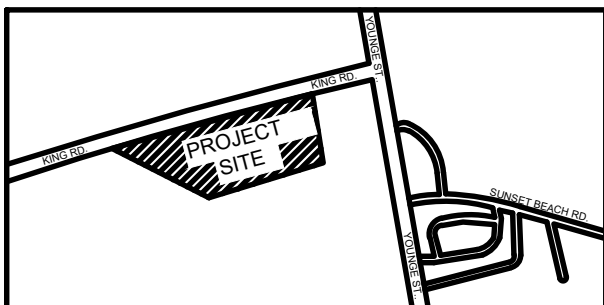
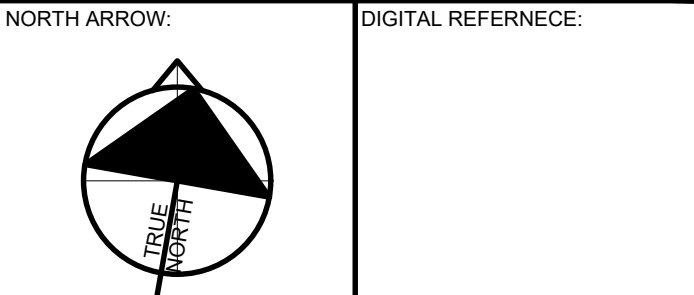
GRILLES AND DIFFUSER SCHEDULE									
TAG	BASIS OF DESIGN				TYPE	VOLUME CONTROL	MATERIAL	FINISH	REMARKS
	MANUFACTURER	MODEL	INLET SIZE (mm)	SIZE (mm x mm)					
A	PRICE	SCD	REFER TO FLOOR PLAN	600x600	CEILING SUPPLY DIFFUSER	YES	STEEL	MATCH ARCH	1,2,3,4
B	PRICE	510	REFER TO FLOOR PLAN		LOUVERED SUPPLY GRILLE	YES	STEEL	MATCH ARCH	1,2,3,4
C	PRICE	80	REFER TO FLOOR PLAN		CEILING RETURN GRILLE	YES	ALUMINIUM	MATCH ARCH	1,2,3,4
D	PRICE	630	REFER TO FLOOR PLAN		LOUVERED RETURN/EXHAUST GRILLE	YES	ALUMINIUM	MATCH ARCH	1,2,3,4
E	GREENHECK	ESD-435	REFER TO FLOOR PLAN		WEATHER NTAKE LOUVER	YES	ALUMINIUM	MATCH ARCH	1,2,3,4
NOTES: 1. ALL DIFFUSERS AND GRILLES SHALL SUIT THE CEILING CONSTRUCTION, DIFFUSERS IN DRYWALL CEILING TO BE CW ADAPTOR FRAME TO ACCOMMODATE INSTALLATION, DIFFUSER ADAPTOR FRAME SHALL BE OF THE SAME MATERIAL AS THE DIFFUSER. 2. ALL DAMPERS SHALL BE OF THE SAME MATERIAL AS THE DIFFUSER OR GRILLE UNLESS OTHERWISE NOTED. 3. GRILLE AND DIFFUSER COLOUR TO BE APPROVED BY ARCHITECT, WHERE DIFFUSER PLENUMS ARE EXPOSED,CONTRACTOR TO PAINT PLENUM TO SUIT ARCHTECT. 4. REFER TO SPECIFICATIONS FOR FURTHER DETAILS									

SCHEDULE OF NEW BASEBOARD HEATERS									
TAG	AREA SERVED	MANUFACTURER	MODEL NO	DIMENSIONS LENGTH (MM)	POWER (W)	ELECTRICAL			REMARKS
						VOLTS	PHASE	HERTZ	
BH-1	STAIR CASE	STELPRO	AB0751	996	500	120	1	60	7
BH-2	WORKSHOP/ STORAGE	STELPRO	AB0751	996	500	120	1	60	7
BH-3	WORKSHOP/ STORAGE	STELPRO	AB0751	996	500	120	1	60	7
BH-4	MAIN ELEC ROOM	STELPRO	AB0751	996	500	120	1	60	7
BH-5	ELEC DIST ROOM	STELPRO	AB0751	996	500	120	1	60	7
BH-6	KITCHENETTE	STELPRO	AB0751	996	500	120	1	60	7
BH-7	STAIR CASE	STELPRO	AB0751	996	500	120	1	60	7
BH-8	OFFICE 203	STELPRO	AB0751	996	500	120	1	60	7
NOTES: 1. SINGLE TUBULAR, STAINLESS STEEL SHEATHED ELEMENT WITH BOXED ALUMINIUM FINS 2. BUILT-IN THERMOSTAT, BUILT IN ELECTRONIC LOW VOLTAGE RELAY CW TRANSFORMER 3. REMOTE LINE VOLTAGE STAT WITH LOCKING COVER 4. UNIT SHALL BE CAPABLE OF BAS INTERFACE 5. BAKED ENAMEL - WHITE.									

SCHEDULE OF NEW FORCE FLOW HEATER											
TAG	AREA SERVED	MANUFACTURER	MODEL NO	AIRFLOW L/s	DIMENSIONS	POWER (W)	ELECTRICAL			MASS (kg)	REMARKS
							VOLTS	PHASE	HERTZ		
FFH-1	VESTIBULE	STELPRO	WFA150124W	160	416W X 591H X 147D	1500	120	1	60	9.1	1,2,&3
NOTES: 1. WALL MOUNTED, RECESSED OR SURFACE MOUNTED. 2. BUILT-IN THERMOSTAT. 3. EPOXY-POLYESTER POWDERCOAT - WHITE.											

SCHEDULE OF NEW INDOOR DUCTLESS SPLIT AC UNIT													
TAG	AREA SERVED	MANUFACTURER	MODEL	COOLING CAPACITY (kW)	SEER	SEER	MAX AIR FLOW (L/S)	ELECTRICAL			OPERATING WEIGHT (kg)	REMARKS	
								VOLT/PH/Hz	MCA IN/OUT(A)	MOCP IN/OUT(A)			
AC-1,CU-1	ROOM 113	MTSUBISHI	PKA-A12HA7 PUY-A12NKA7	3.5	18.8	10.8	250	208/1/60	1/11	15/28	41	PROVIDE NEW WALL-MOUNTED INDOOR AC UNIT AC-1.2 CW OUTDOOR CONDENSING UNIT CU-1.2, AS SCHEDULED, WITH NON-PENETRATING ECOCFOOT MOUNTING STAND MODEL MF-120, ADVANCED WIRED CONTROLLER (PAR-40MAAU), WALL MOUNTING KIT FOR INDOOR UNIT, REFRIGERANT PIPES CW INSULATION, ULTRA LOW AMBIENT KIT, FRONT WIND SCREEN (WIND BATTLE), AND ANY OTHER ACCESSORY REQUIRED TO COMPLETE THE INSTALLATION, PROVIDE PROCON MacoBEMS MINI (A1M) PROTOCOL CONVERTER FOR INTEGRATION TO BAS AND FACTORY-INSTALLED LOW AMBIENT KIT.	
AC-2,CU-2	ELECTRICAL ROOM	MTSUBISHI	PKA-A12HA7 PUY-A12NKA7	3.5	18.8	10.8	250	208/1/60	1/11	15/28	41		

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04	2025-04-01	ISSUED FOR TENDER
03	2025-01-13	ISSUED FOR PERMIT
02	2024-12-13	ISSUED FOR PERMIT
01	2024-09-19	ISSUED FOR INTERNAL REVIEW
NO. DATE ISSUED		
PROJECT		

CONNOR BUILDING
RENOVATIONS

MECHANICAL SCHEDULES