

ABBREVIATIONS			
A	AMP	IO	INPUT/OUTPUT
ADD	ADDENDUM	IN	INCH
ADJ	ADJUSTABLE	LAT	LEAVING AIR TEMPERATURE
AFF	ABOVE FINISH FLOOR	LB	POUND
AHU	AIR HANDLER UNIT	LWT	LEAVING WATER TEMPERATURE
AI	ANALOG INPUT	MAX	MAXIMUM
ALT	ALTERNATE	MBH	1000 BTU PER HOUR
AO	ANALOG OUTPUT	MC	MECHANICAL CONTRACTOR
APPRX	APPROXIMATE	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECT, ARCHITECTURAL	MECH	MECHANICAL
BDD	BACK DRAFT DAMPER	MIN	MINIMUM
BLDG	BUILDING	MFR	MANUFACTURER
BTUH	BRITISH THERMAL UNIT PER HOUR	NTS	NOT TO SCALE
C	CENTER	OA	OUTSIDE AIR
CD	CEILING DIFFUSER	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	P	PUMP
CO	CLEAN OUT	PC	PLUMBING CONTRACTOR
COND	CONDENSATE	PLBG	PLUMBING
CONT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
COP	COEFFICIENT OF PERFORMANCE	QTY	QUANTITY
DB	DRY BULB	RA	RETURN AIR
DET	DETAIL	REQD	REQUIRED
DG	DOOR GRILLE	REV	REVERSE OR REVISION
DI	DIGITAL INPUT	RG	RETURN AIR GRILLE
DIA/Ø	DIAMETER	RPM	REVOLUTIONS PER MINUTE
DM	DIMENSION	RTU	ROOF TOP UNIT
DN	DOWN	SA	SUPPLY AIR
DO	DIGITAL OUTPUT	SQFT	SQUARE FEET
DWG	DRAWING	SG	SUPPLY GRILLE
EA	EXHAUST AIR	SP	STATIC PRESSURE
EAT	ENTERING AIR TEMPERATURE	SPEC	SPECIFICATIONS
EC	ELECTRICAL CONTRACTOR	SS	STAINLESS STEEL
EER	ENERGY EFFICIENCY RATIO	T&B	TEST AND BALANCE
EF	EXHAUST FAN	TEMP	TEMPERATURE OR TEMPORARY
EG	EXHAUST GRILLE	TG	TRANSFER GRILLE
ELEC	ELECTRICAL	TYP	TYPICAL
ERV	ENERGY RECOVERY VENTILATOR	V	VOLT
ESP	EXTERNAL STATIC PRESSURE	VAR	VARIABLE OR VARIES
EWT	ENTERING WATER TEMPERATURE	VEL	VELOCITY
EXIST	EXISTING	VFD	VARIABLE FREQUENCY DRIVE
FA	FRESH AIR	VTR	VENT THRU ROOF
FPM	FEET PER MINUTE	W/	WITH
FT	FOOT (FEET)	WIN	WITHIN
GA	GAUGE/GAGE	W/O	WITH OUT
GALV	GALVANIZED	WB	WET BULB
GC	GENERAL CONTRACTOR	WC	WATER COLUMN (INCHES OF)
GPM	GALLONS PER MINUTE	WT	WEIGHT
GYP	GYPSUM		
HORIZ	HORIZONTAL		
HP	HORSEPOWER		
HT	HEIGHT		

MECHANICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
Ⓜ	KEY NOTE TAG
△	REVISION TAG
▨	NEW EQUIPMENT
EQUIP-1	EQUIPMENT TAG
DUCTWORK	
⊠	SUPPLY AIR DUCTWORK
⊠	RETURN AIR AND OUTSIDE AIR DUCTWORK
⊠	EXHAUST AIR DUCTWORK
++++	FLEXIBLE DUCTWORK
⊠	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
⊠	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
⊠	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
⊠	ROUND DUCTWORK
▲	FIRE DAMPER (VERTICAL)
◆	FIRE DAMPER (HORIZONTAL)
◇	SMOKE DAMPER (VERTICAL)
◇	SMOKE DAMPER (HORIZONTAL)
⊠	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
⊠	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
⊠	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
⊠	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
⊕	THERMOSTAT AND TEMPERATURE SENSOR
⊕	HUMIDISTAT
⊕	SMOKE DETECTOR
⊕	HEAT DETECTOR
AIR DEVICES	
⊠	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
⊠	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
⊠	SUPPLY AIR GRILLE WITH THREE-WAY THROW
⊠	SUPPLY AIR GRILLE WITH TWO-WAY THROW
⊠	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
⊠	SUPPLY AIR GRILLE WITH ONE-WAY THROW
⊠	RETURN AIR GRILLE
⊠	RETURN AIR GRILLE WITH SOUND BOOT
⊠	EXHAUST AIR GRILLE
⊠	SUPPLY AIR SIDEWALL GRILLE
⊠	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
RENOVATIONS	
⊕	POINT OF CONNECTION FROM NEW TO EXISTING
⊠	ITEM TO REMAIN
⊠	ITEM TO BE REMOVED

GENERAL MECHANICAL NOTES	
1.	ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2.	THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
3.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4.	VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
5.	EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
6.	THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
7.	THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
8.	ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
9.	THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
10.	ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
11.	PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NOT LIMITED TO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPMENT SHALL STATE THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FOR THE PRIME CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL WALK THROUGH OF THE PROJECT.
12.	PROVIDE 8 HOURS OF OWNER TRAINING FOR THE INSTALLED EQUIPMENT. TRAINING SHALL BE HELD ONLY AFTER ALL OF THE EQUIPMENT IS INSTALLED AND PROPER OPERATION IS VERIFIED.
13.	CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PERFORMANCE INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS OF ALL EQUIPMENT GREATER THAN 1/3 H.P. WATER BALANCE MEASUREMENTS OF EACH COIL AND PUMP. AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR HANDLING UNIT SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALANCE SHALL BE WITHIN 10% OF DESIGN CONDITIONS. THE REPORT CERTIFICATION SHALL BE AS FOLLOWS: I (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (xx/xx/xx).
14.	DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FOR THE PRESSURE AND SEAL CLASS LISTED IN DUCTWORK/INSULATION SCHEDULE.
15.	DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
16.	SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK. DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
17.	PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
18.	PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUS ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
19.	ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
20.	DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
21.	MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
22.	THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
23.	THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
24.	MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
25.	MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
26.	UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE BUILDING OWNER. ALL CHANGES MADE TO EQUIPMENT, DUCTWORK, AND GENERAL DESIGN SHALL BE NOTED ON THE DRAWINGS. PROVIDE IN PDF FORMAT OR PRINTED SET AT THE OWNER'S REQUEST.

MECHANICAL SHEET INDEX	
M000	MECHANICAL TITLE SHEET
M101	MECHANICAL PLAN - FIRST FLOOR
M102	MECHANICAL PLAN - SECOND FLOOR
M201	MECHANICAL ROOF PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M503	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M603	MECHANICAL SCHEDULES
M604	MECHANICAL SCHEDULES
M605	MECHANICAL SCHEDULES
M606	MECHANICAL SCHEDULES
M607	MECHANICAL SCHEDULES

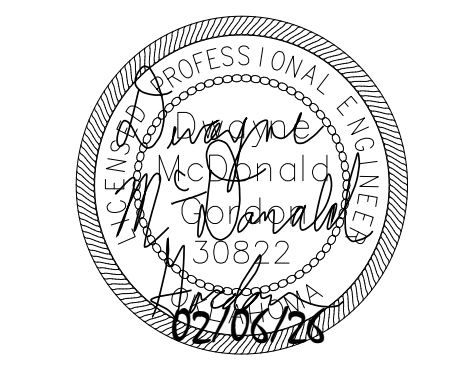
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CIVIL

KFC ENGINEERING
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SALAS O'BRIEN
MECHANICAL / ELECTRICAL

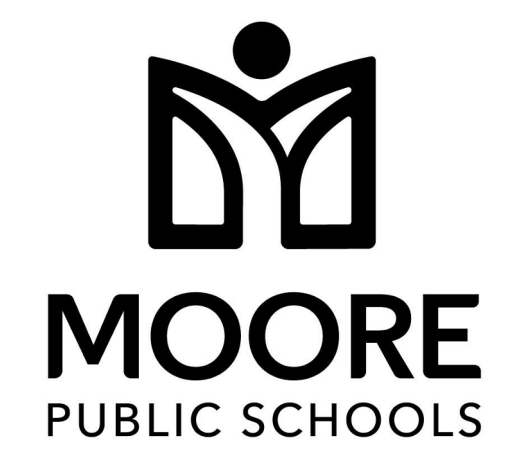


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M000

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CA# 7058 Expiration Date: 06/30/27
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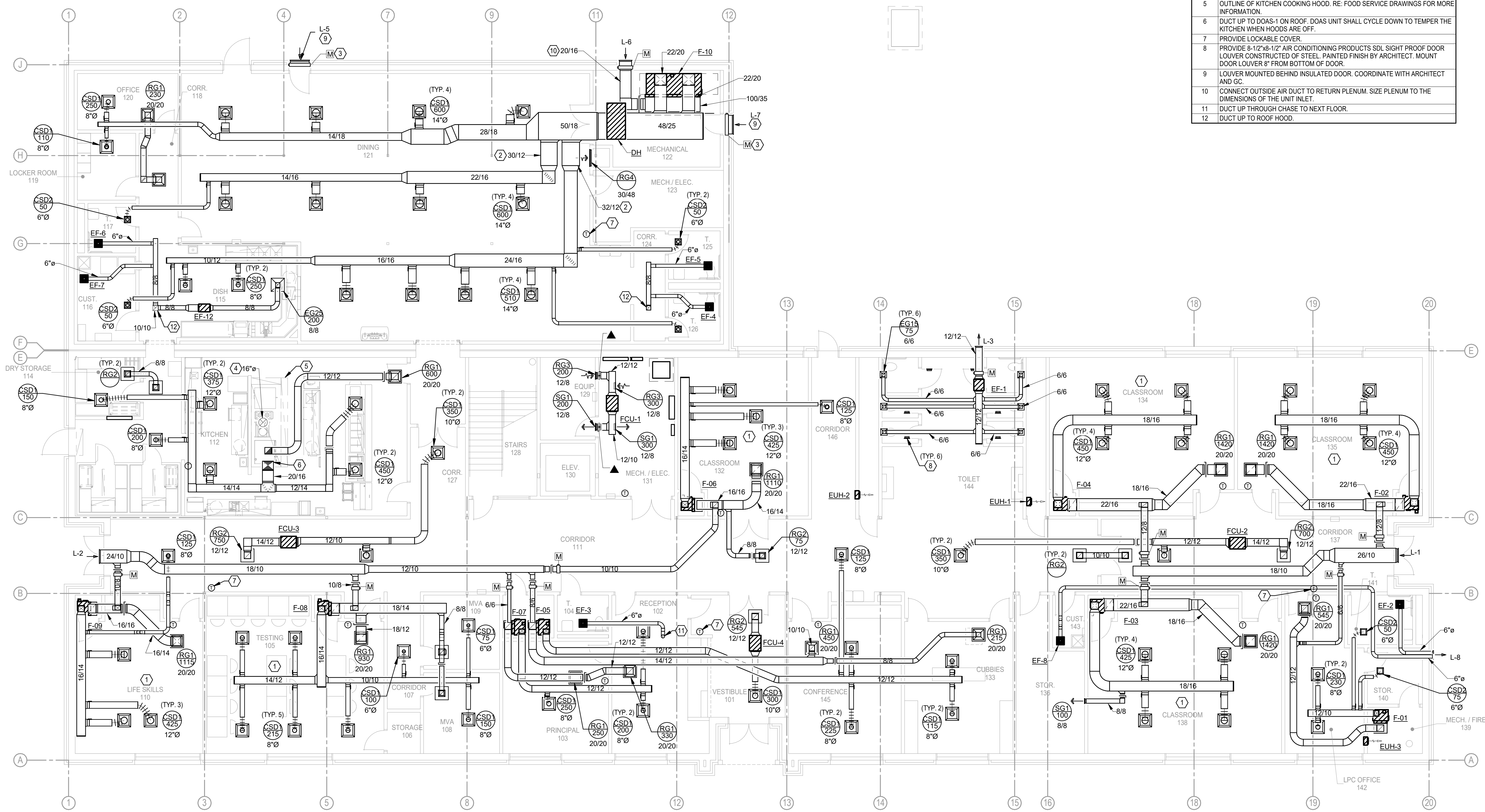
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- ### SAFEROOM NOTES
- ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL PLANS FOR ALL SHROUD DETAILS.
 - MC IS RESPONSIBLE TO ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
 - EC SHALL PROVIDE, LOCATE, AND INSTALL SWITCH FOR EMERGENCY VENTILATION FAN. MC SHALL PROVIDE CALL OUT LETTERING "EMERGENCY VENTILATION" ON PLACARD ABOVE THE SWITCH WITH 3/4" LETTERING FOR INSTALLATION BY GC. COORDINATE WITH GC AND EC.

- ### GENERAL NOTES
- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
 - COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
 - COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSNART PRIOR TO INSTALLATION.
 - KITCHEN HOODS ARE PROVIDED BY FOOD SERVICE CONTRACTOR. COORDINATE WITH FOOD SERVICE CONTRACTOR FOR DUCT INSTALLATION.
 - INSTALL GREASE DUCTS IN ACCORDANCE WITH SMACNA STANDARDS OF MATERIAL AND CONSTRUCTION.

- ### MECHANICAL KEYED NOTES
- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECT.
 - FLATTEN DUCT TO FIT UNDER STRUCTURAL BEAM.
 - MOTORIZED DAMPER IS PART OF EMERGENCY VENTILATION SYSTEM. WHEN POWER IS ON, THE DAMPER SHALL BE CLOSED. WHEN POWER IS LOST, THE DAMPER SHALL OPEN.
 - ROUTE GREASE DUCT UP THRU ROOF TO CONNECT TO EXHAUST FAN.
 - OUTLINE OF KITCHEN COOKING HOOD. RE: FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
 - DUCT UP TO DOAS-1 ON ROOF. DOAS UNIT SHALL CYCLE DOWN TO TEMPER THE KITCHEN WHEN HOODS ARE OFF.
 - PROVIDE LOCKABLE COVER.
 - PROVIDE 8-1/2"x8-1/2" AIR CONDITIONING PRODUCTS SILENT PROOF DOOR LOUVER CONSTRUCTED OF STEEL. PAINTED FINISH BY ARCHITECT. MOUNT DOOR LOUVER 8" FROM BOTTOM OF DOOR.
 - LOUVER MOUNTED BEHIND INSULATED DOOR. COORDINATE WITH ARCHITECT AND GC.
 - CONNECT OUTSIDE AIR DUCT TO RETURN PLENUM. SIZE PLENUM TO THE DIMENSIONS OF THE UNIT INLET.
 - DUCT UP THROUGH CHASE TO NEXT FLOOR.
 - DUCT UP TO ROOF HOOD.

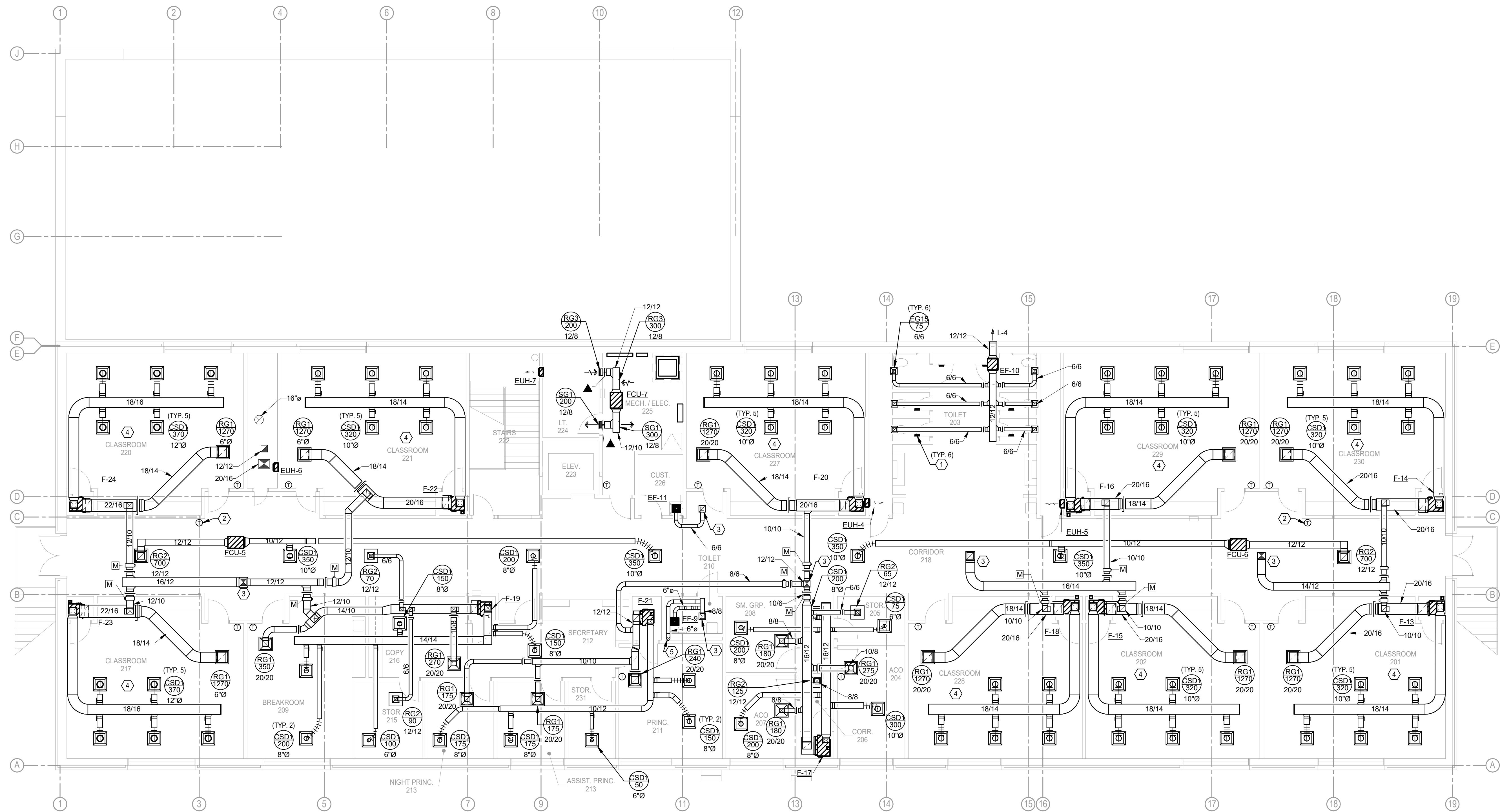


MECHANICAL PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"

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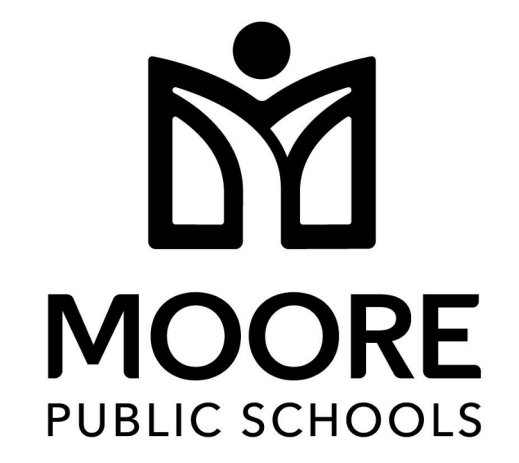
- GENERAL NOTES**
- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
 - COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
 - COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
- MECHANICAL KEYED NOTES**
- PROVIDE 8-1/2"x8-1/2" AIR CONDITIONING PRODUCTS SDL SIGHT PROOF DOOR LOUVER CONSTRUCTED OF STEEL. PAINTED FINISH BY ARCHITECT. MOUNT DOOR LOUVER 8" FROM BOTTOM OF DOOR.
 - PROVIDE LOCKABLE COVER.
 - DUCT UP TO ROOF HOOD.
 - CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECT.
 - DUCT DOWN TO FLOOR BELOW.



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MECHANICAL PLAN - SECOND FLOOR
Scale: 1/8" = 1'-0"

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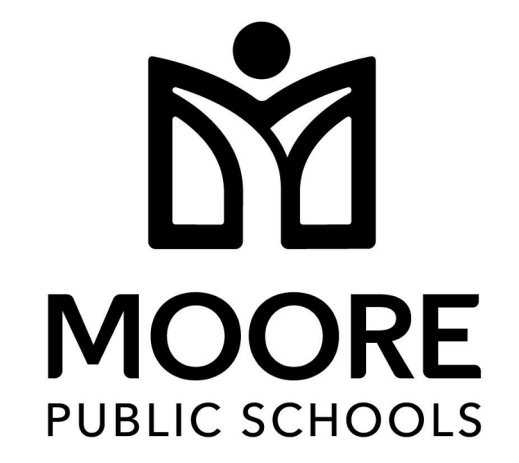
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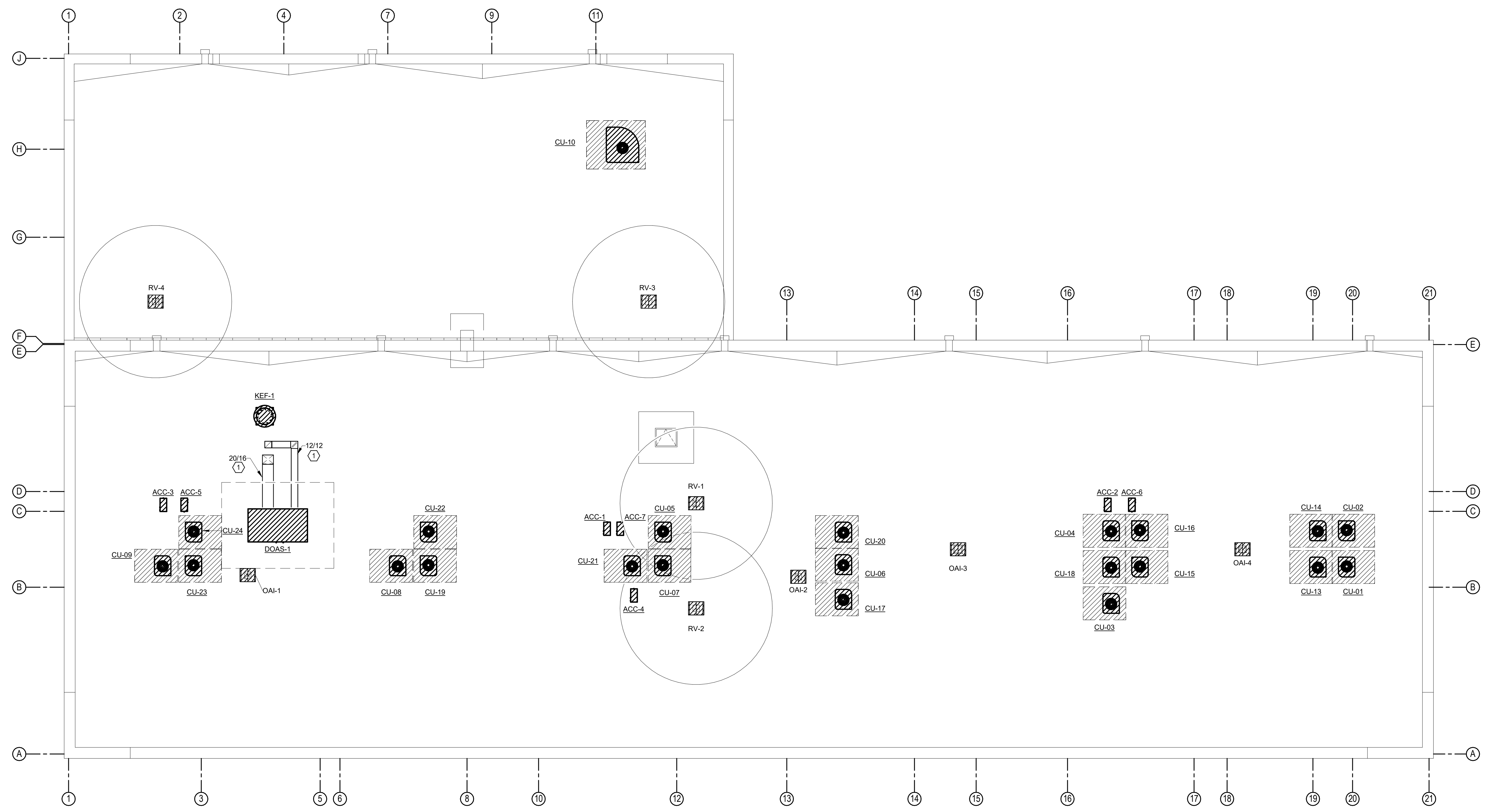
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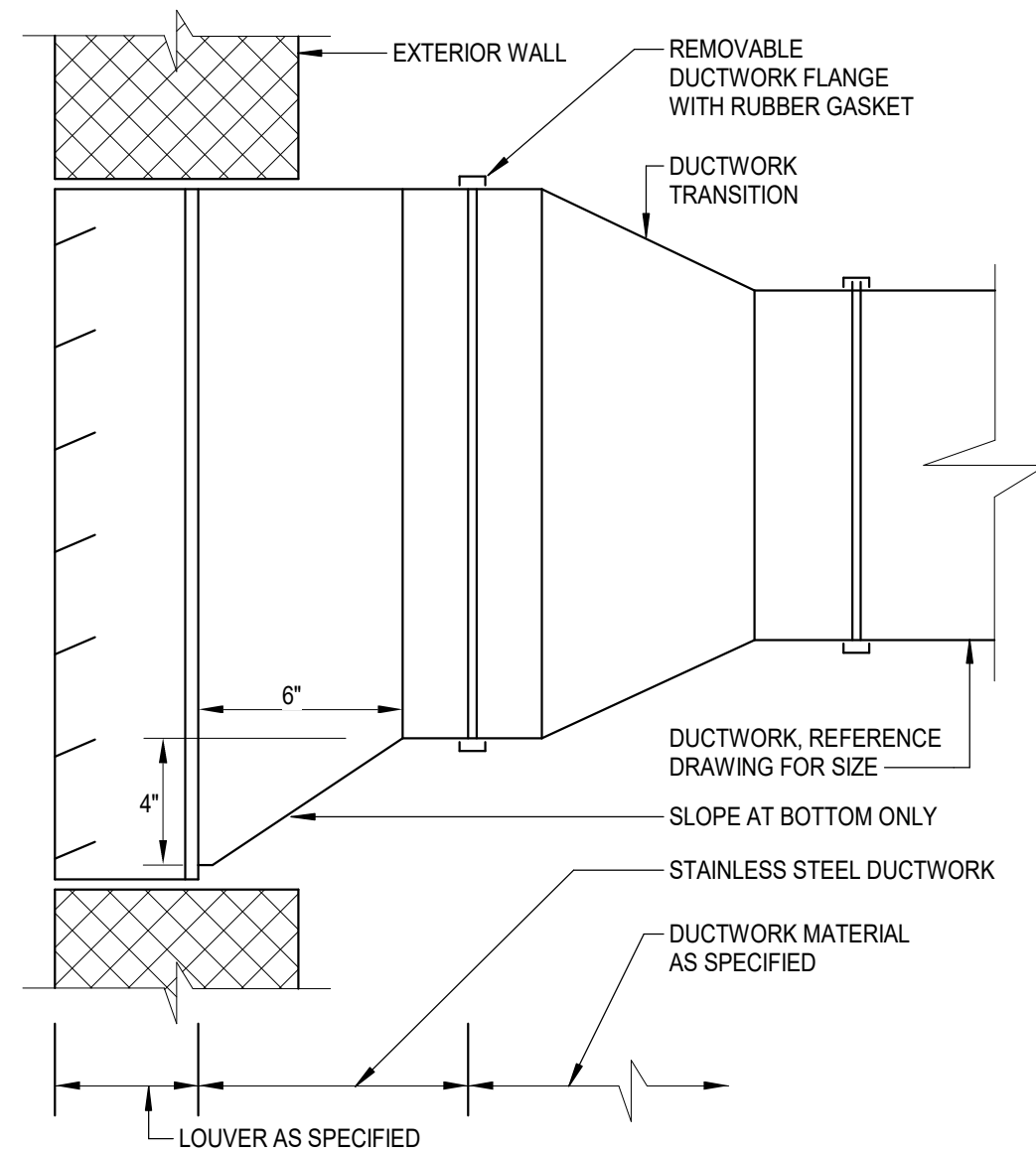
- ### GENERAL NOTES
- ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ROOF EDGE.
 - MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL CLEARANCE BETWEEN ALL EXHAUST OUTLETS AND ANY FRESH AIR INTAKES.
 - MOUNT ROOF CURBS LEVEL ON PITCHED ROOF.
 - ALL ROOF SUPPORT SYSTEMS ARE TO BE MANUFACTURED FOR THE ROOF MATERIAL/SYSTEM TO BE INSTALLED. REFER TO ARCH PLANS FOR THE ROOF SYSTEM. CURB INSTALLATION TO BE WARRANTIED BY ROOFING CONTRACTOR.
 - ROUTE ALL CONDENSATE TO NEAREST ROOF DRAIN WITH COPPER PIPE PAINTED BLACK.

- ### MECHANICAL KEYED NOTES
- ROUTE DUCTWORK ALONG ROOF. EXTERIOR DUCTWORK SHALL BE CROSS CUT AND CONSTRUCTED TO PREVENT WATER POOLING ON THE TOP OF THE DUCT.

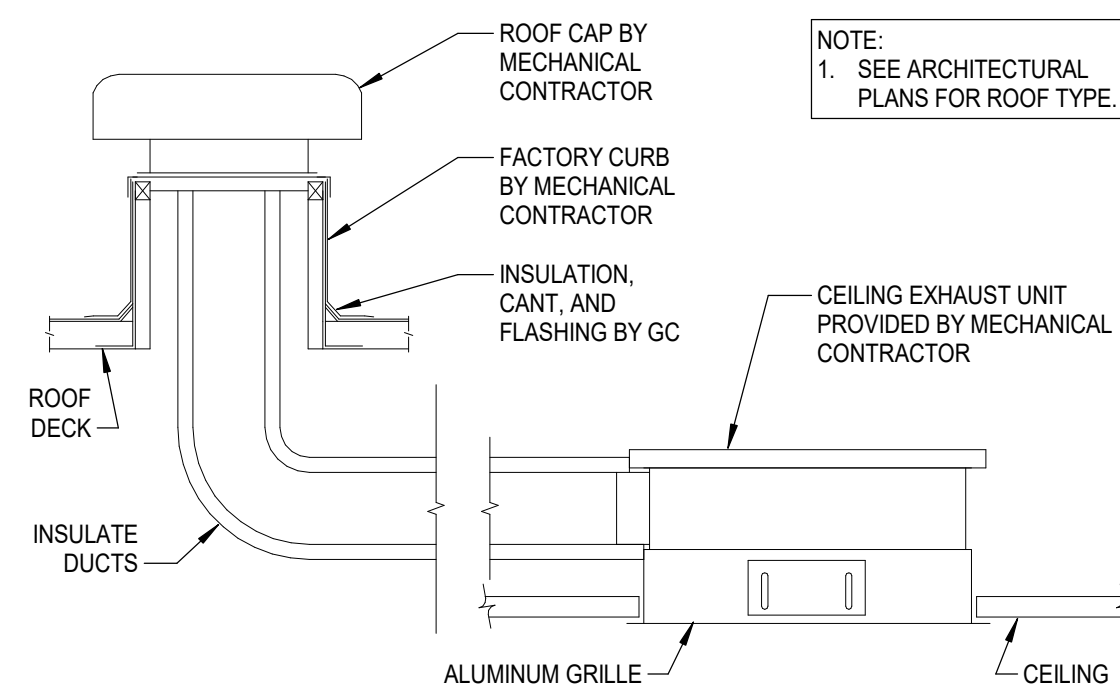


1 MECHANICAL ROOF PLAN
Scale: 1/8" = 1'-0"

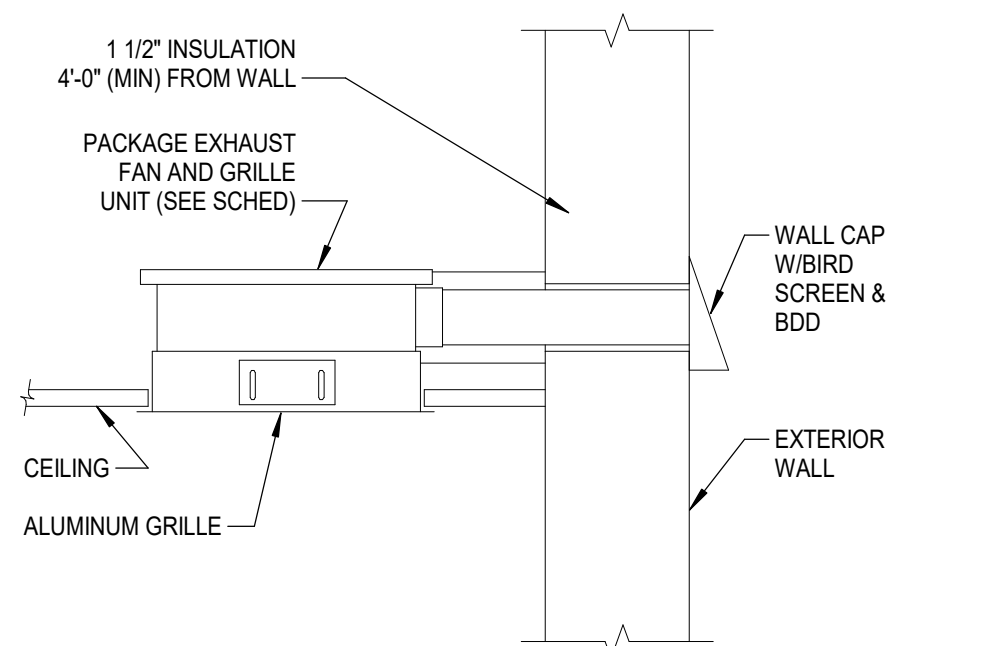
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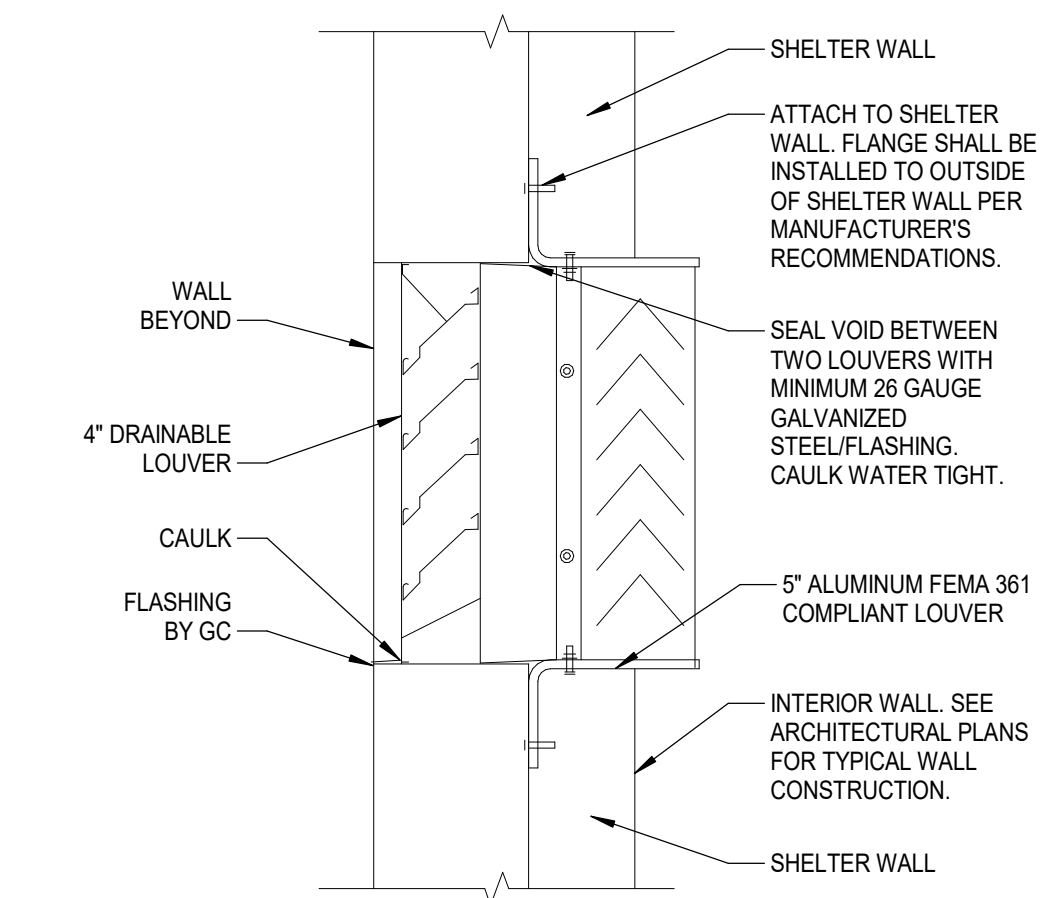
5 DUCTWORK AT LOUVER
Scale: N.T.S.



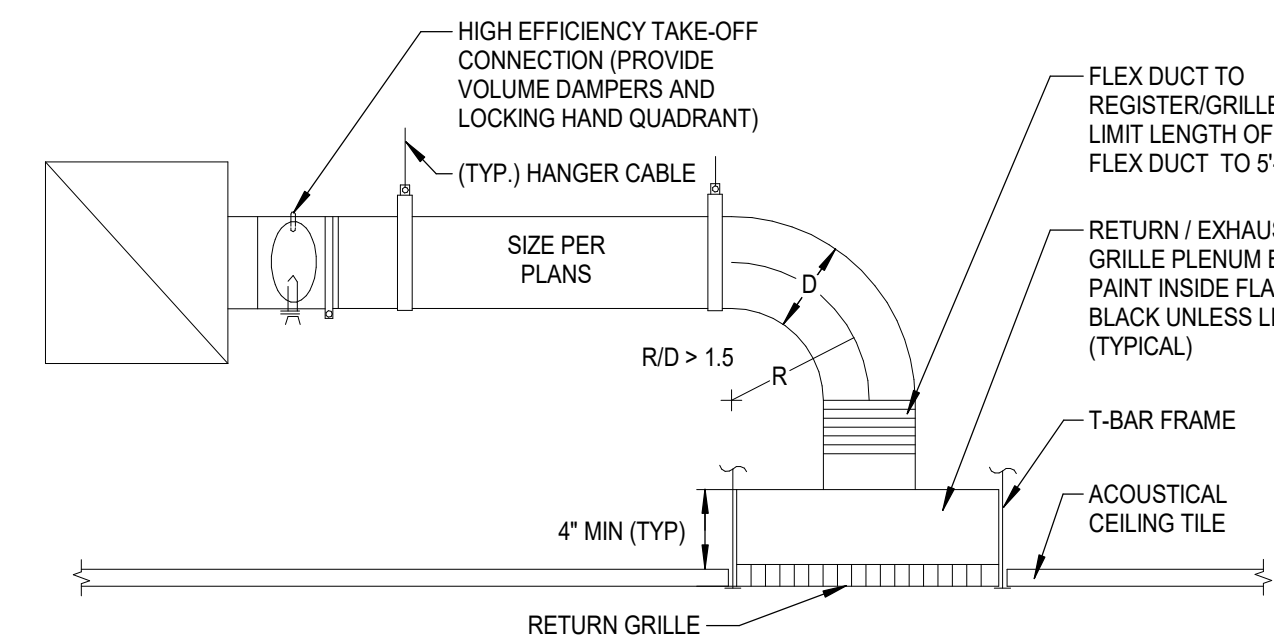
4 ROOF CAP & CEILING MTD EXHAUST FAN DETAIL
Scale: N.T.S.



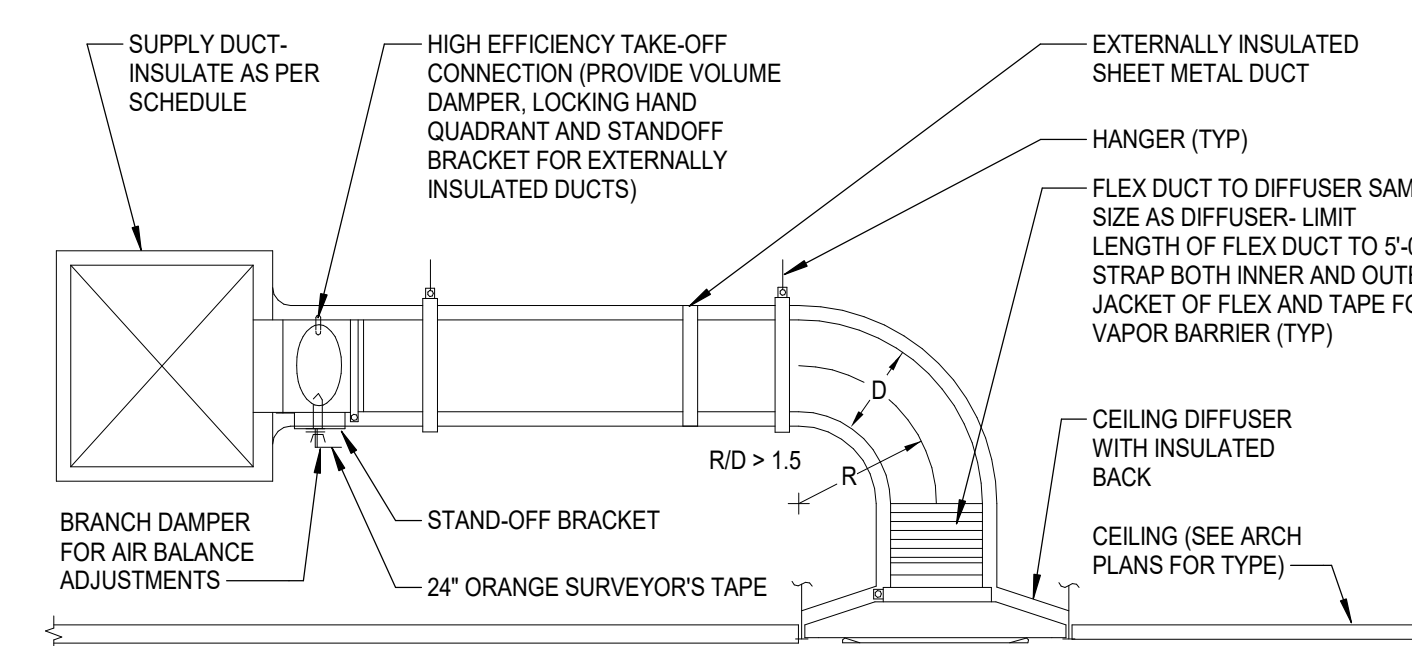
10 CEILING MOUNTED EXHAUST FAN & GRILLE DETAIL
Scale: 12" = 1'-0"



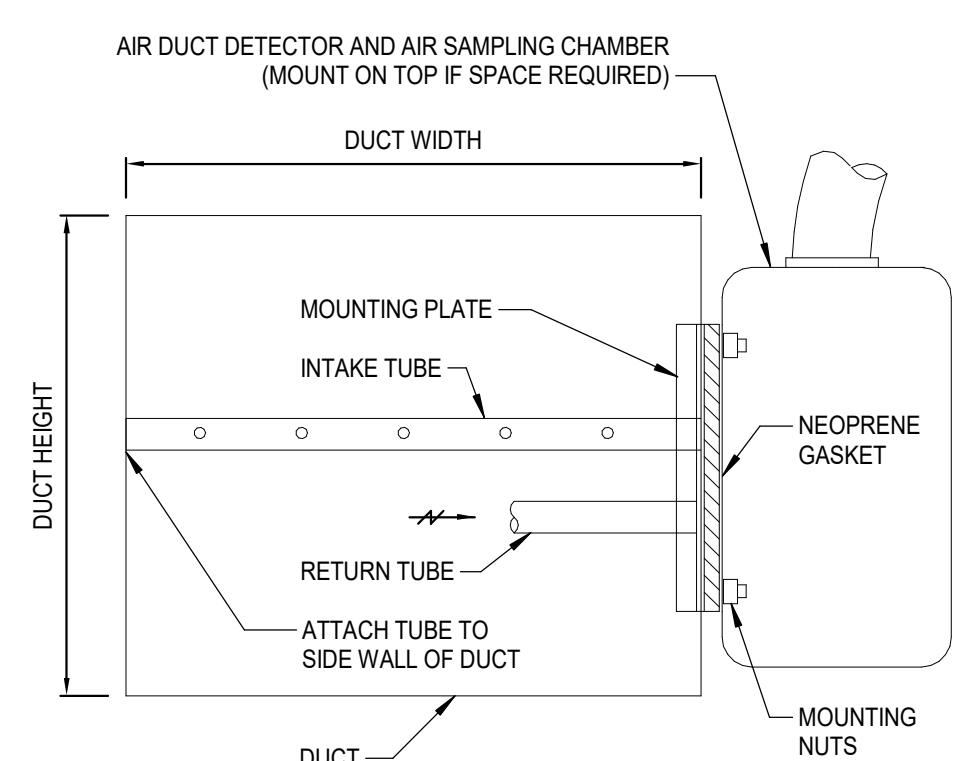
9 FEMA LOUVER CONNECTION DETAIL
Scale: N.T.S.



3 CEILING PLENUM BOX DIFFUSER GRILLE DETAIL
Scale: N.T.S.

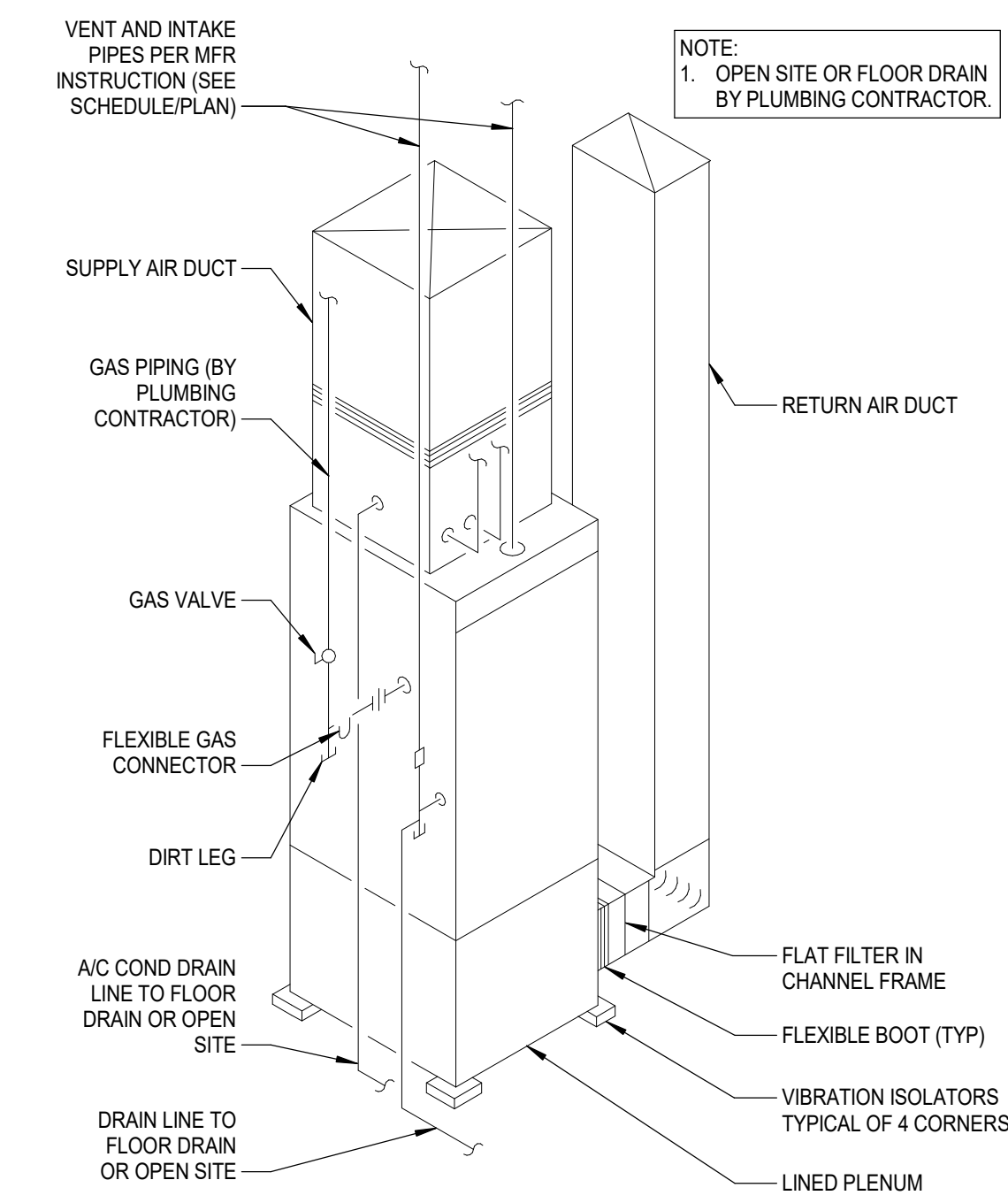


2 CEILING DIFFUSER DETAIL
Scale: N.T.S.

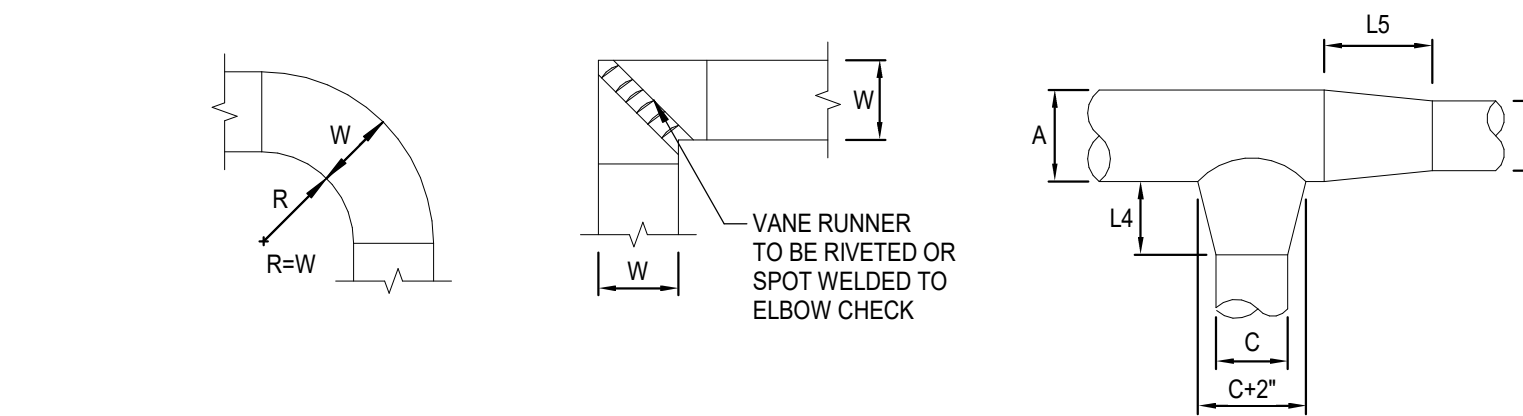
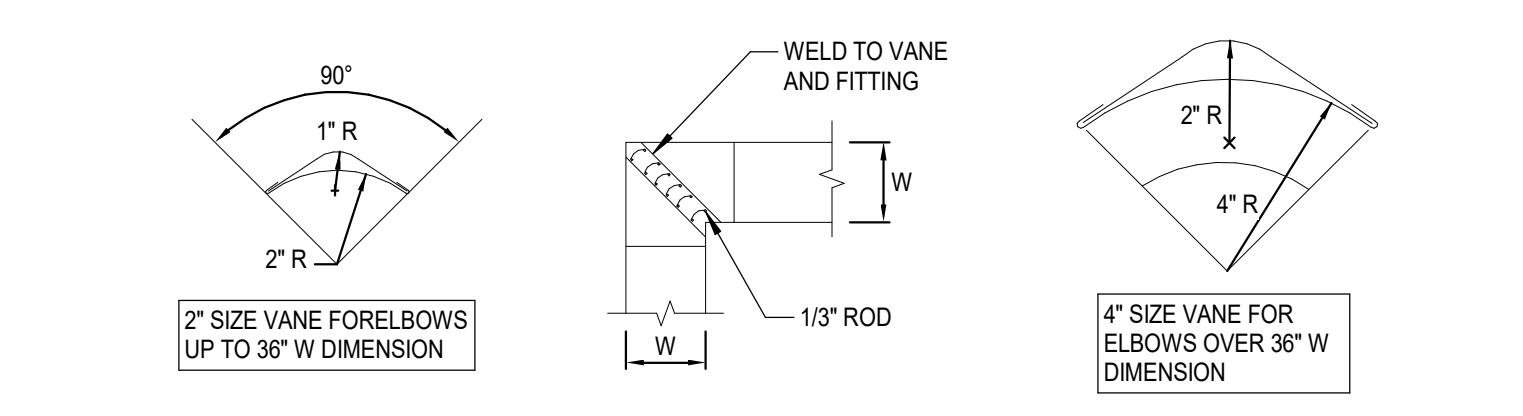
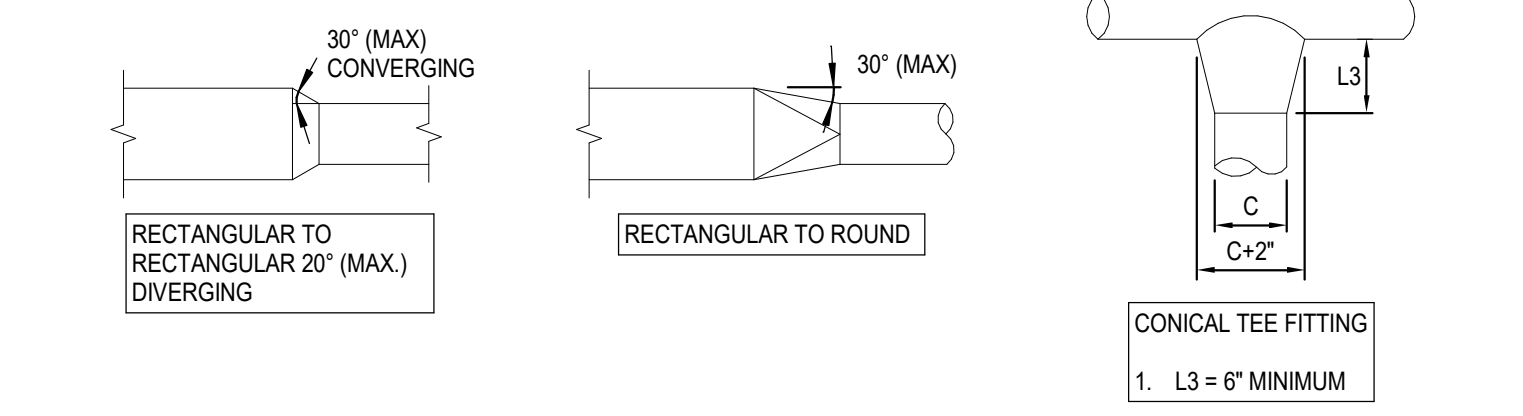
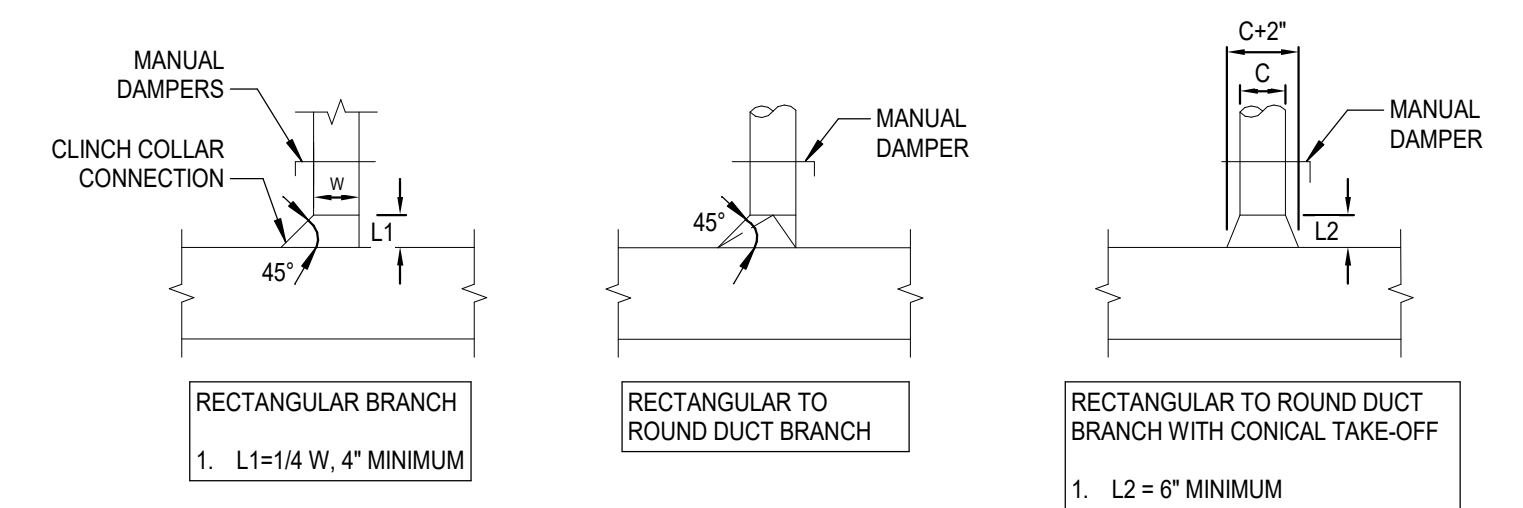


- NOTES:
1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
 2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
 4. THE TUBE SHALL BE INSTALLED PARALLEL TO LONG DIMENSION OF DUCT.
 5. PRODUCT SHALL BE UL268A LISTED FOR DUCT MOUNTED SMOKE DETECTORS, OR UL268A FOR ALL OTHER SMOKE DETECTOR TYPES.
 6. DETECTORS, OR UL268A FOR ALL OTHER SMOKE DETECTOR TYPES.
 7. EC SHALL TEST ACCORDING TO UL AND CODES IN THE PRESENCE OF CODE AUTHORITY.

8 SMOKE DETECTOR MOUNTING DETAIL
Scale: N.T.S.

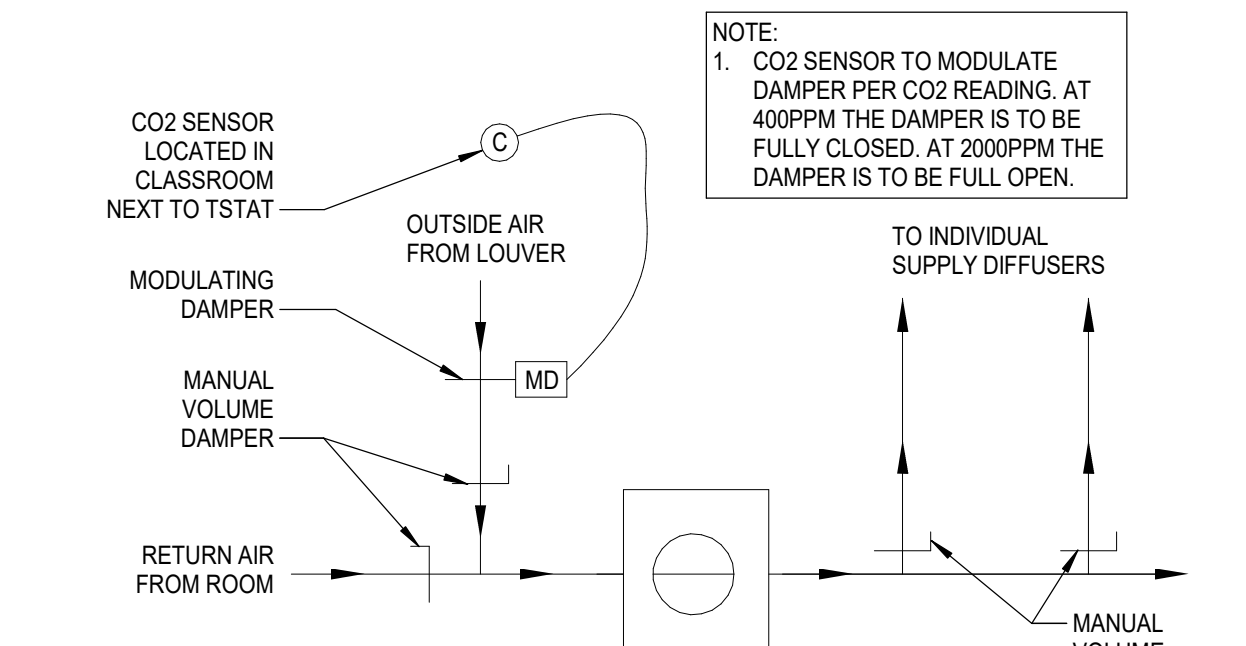


7 GAS FURNACE DETAIL
Scale: N.T.S.



- NOTES:
1. ALL DUCTWORK TO BE CONSTRUCTED TO MEET S.M.A.C.N.A. STANDARDS
 2. REMOVE EVERY OTHER TURNING VANE IN RETURN/EXHAUST DUCTS.

1 TYPICAL DUCTWORK DETAILS
Scale: N.T.S.



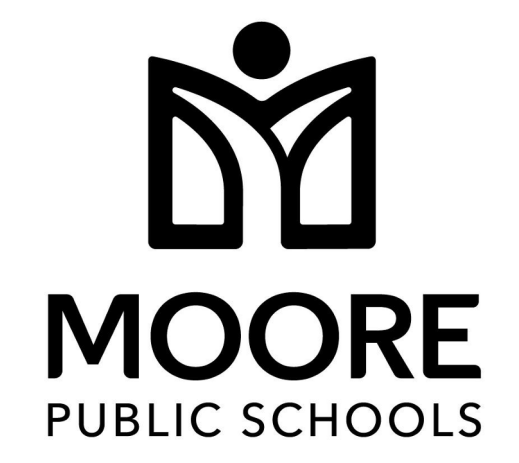
6 FURNACE AIR BALANCE SCHEMATIC
Scale: N.T.S.



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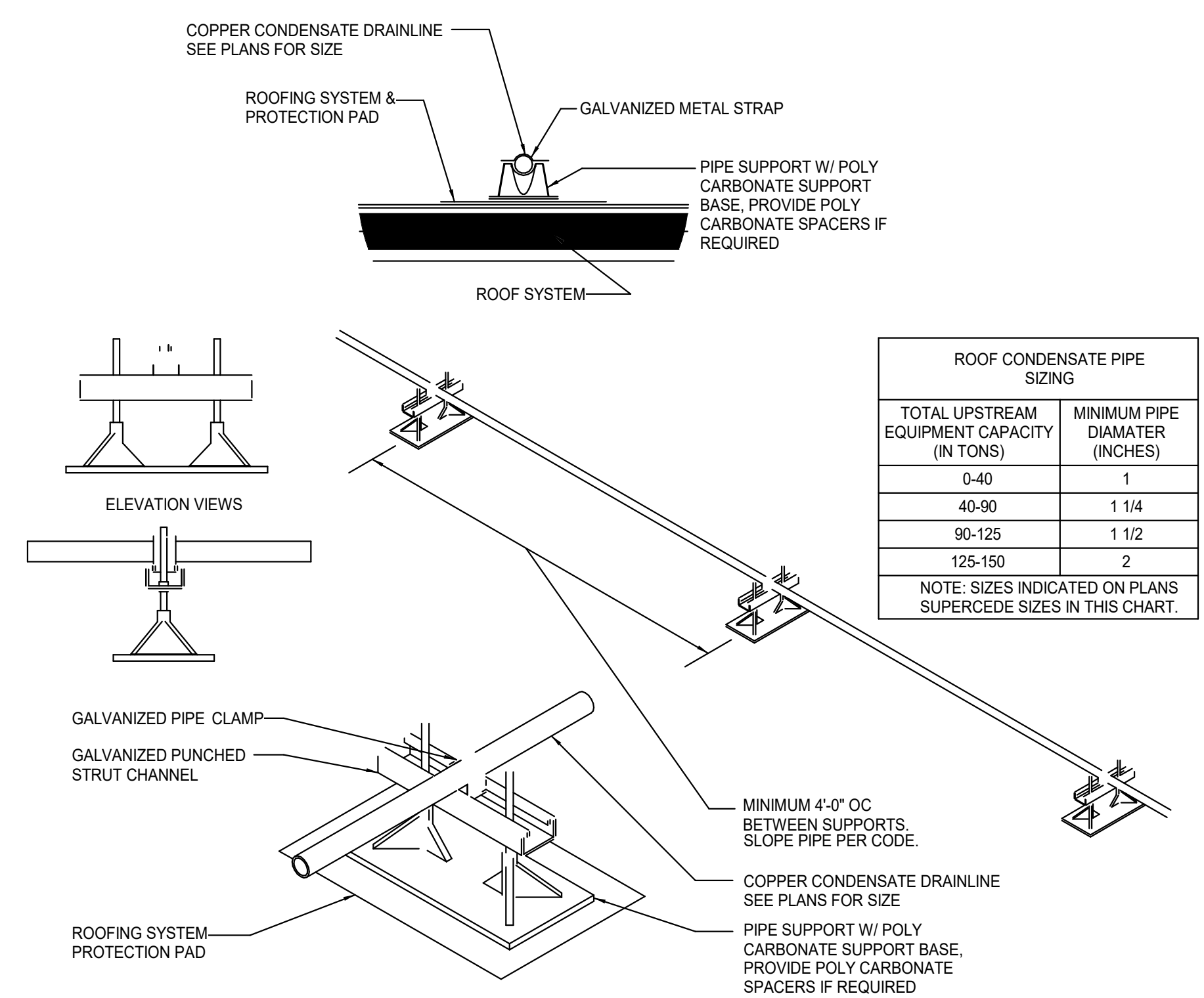


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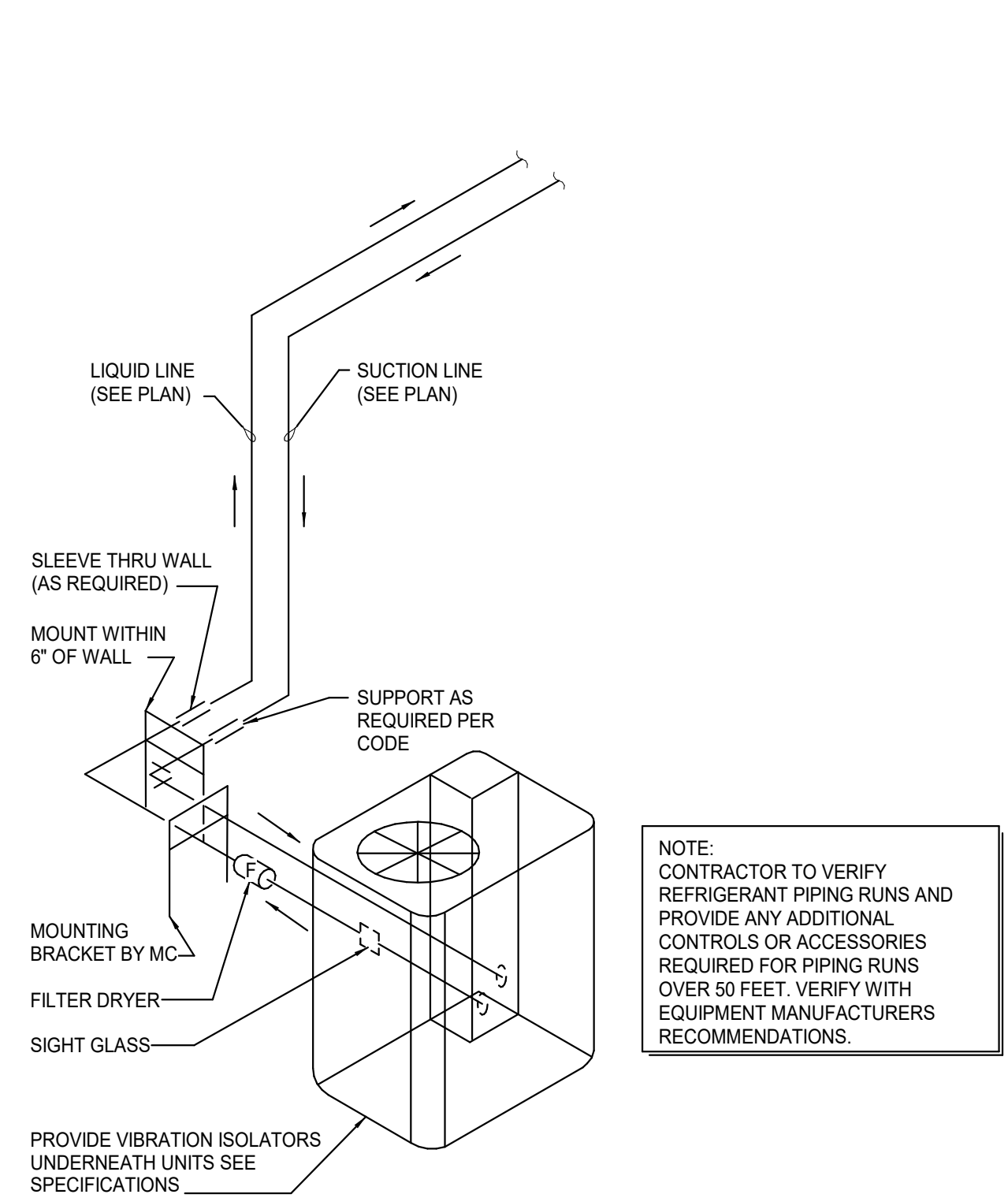
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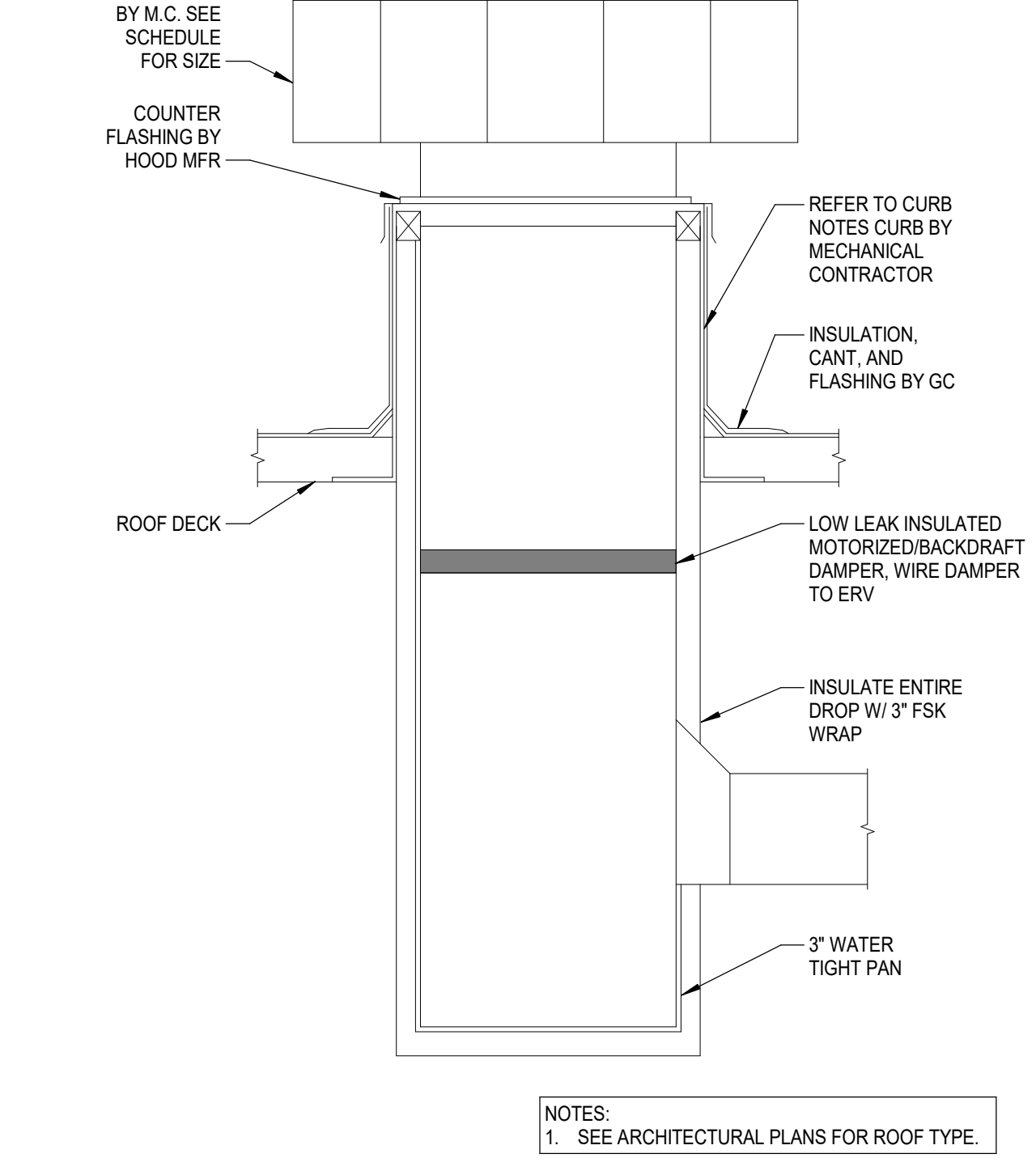
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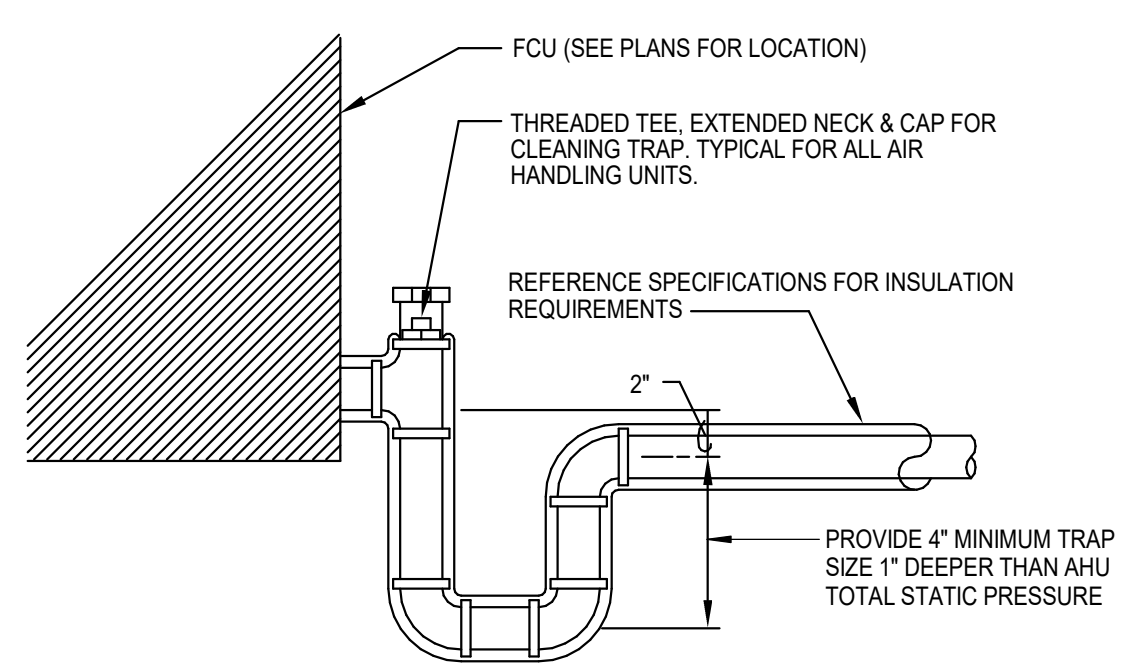
3 ROOF CONDENSATE SUPPORT DETAIL
Scale: N.T.S.



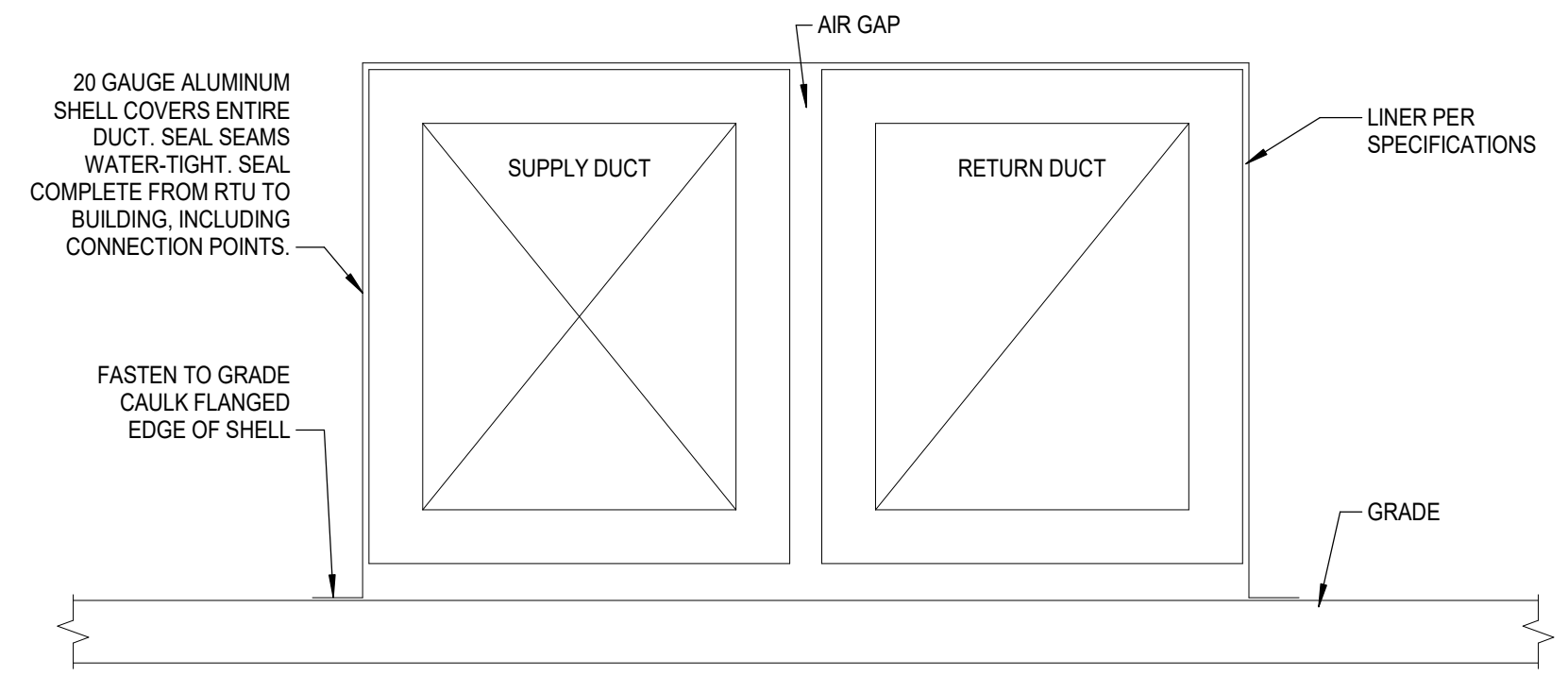
2 CONDENSING UNIT PIPING DETAIL
Scale: N.T.S.



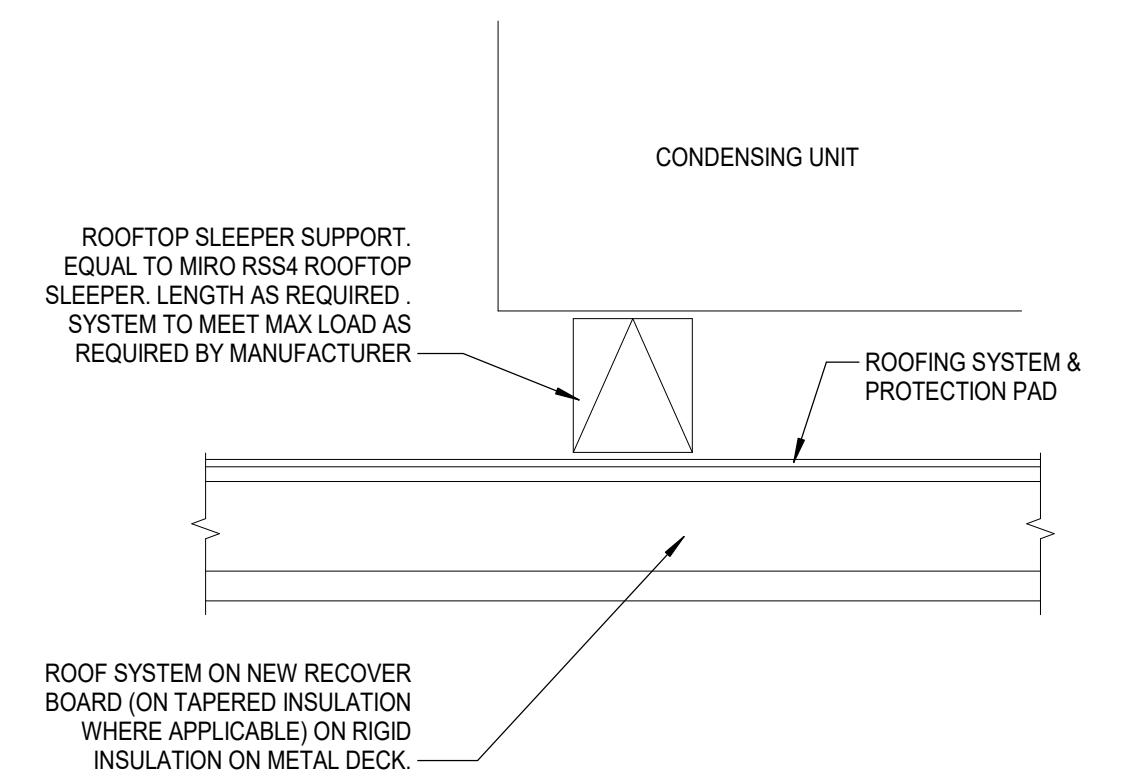
6 ROOF HOOD DETAIL
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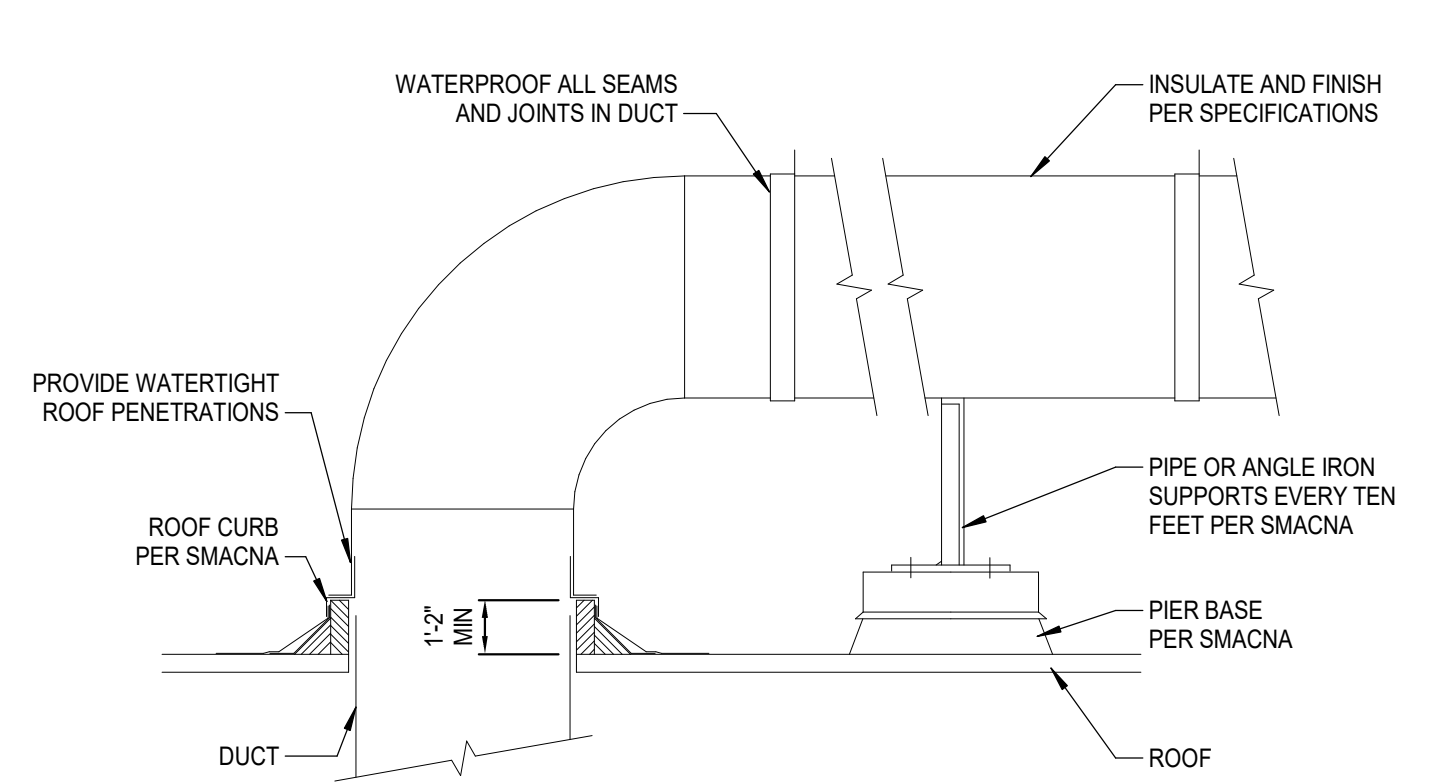
8 CONDENSATE DRAIN PIPING AT FCU
Scale: N.T.S.



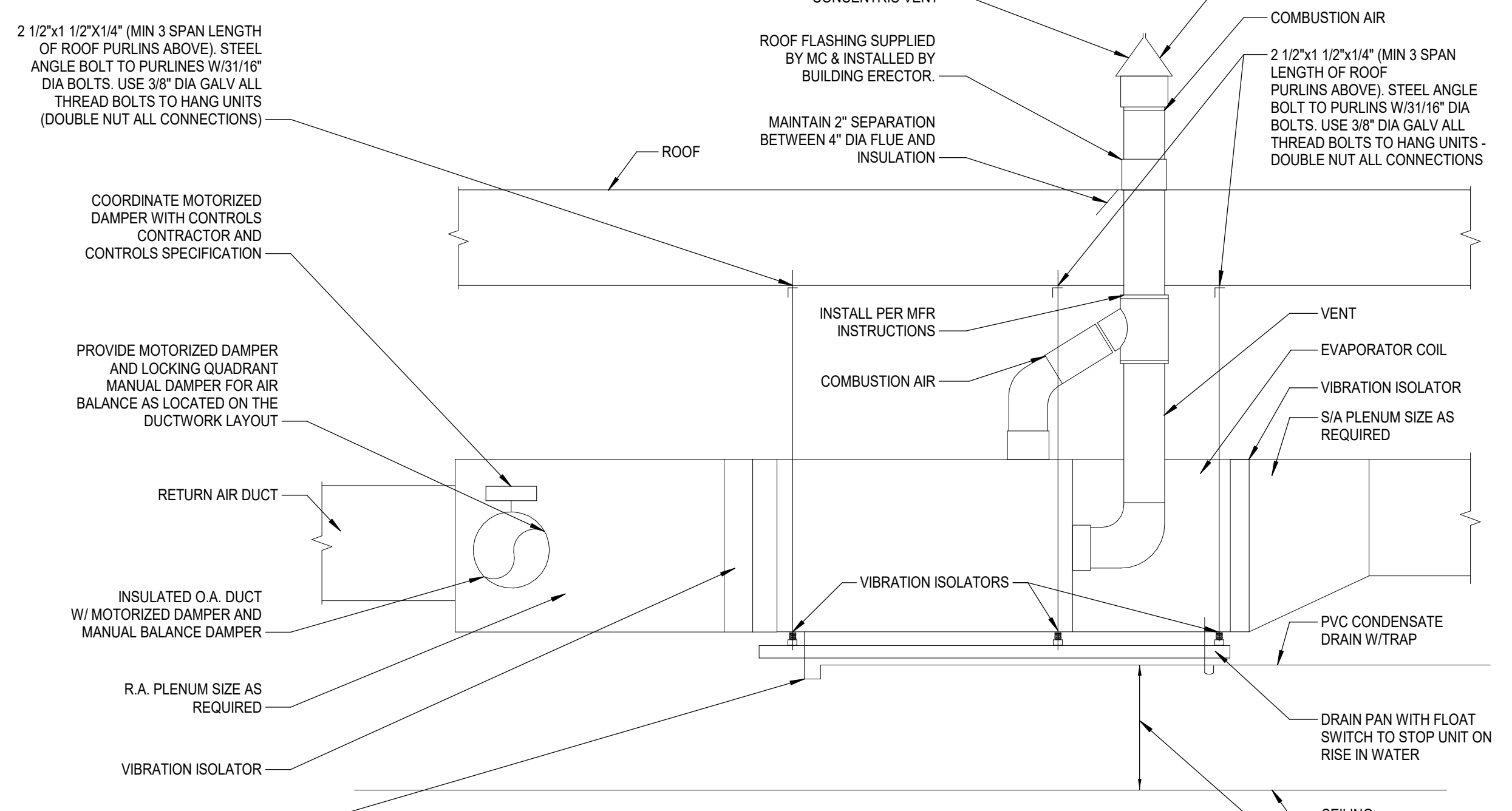
4 EXTERIOR DUCT COVERING DETAIL
Scale: N.T.S.



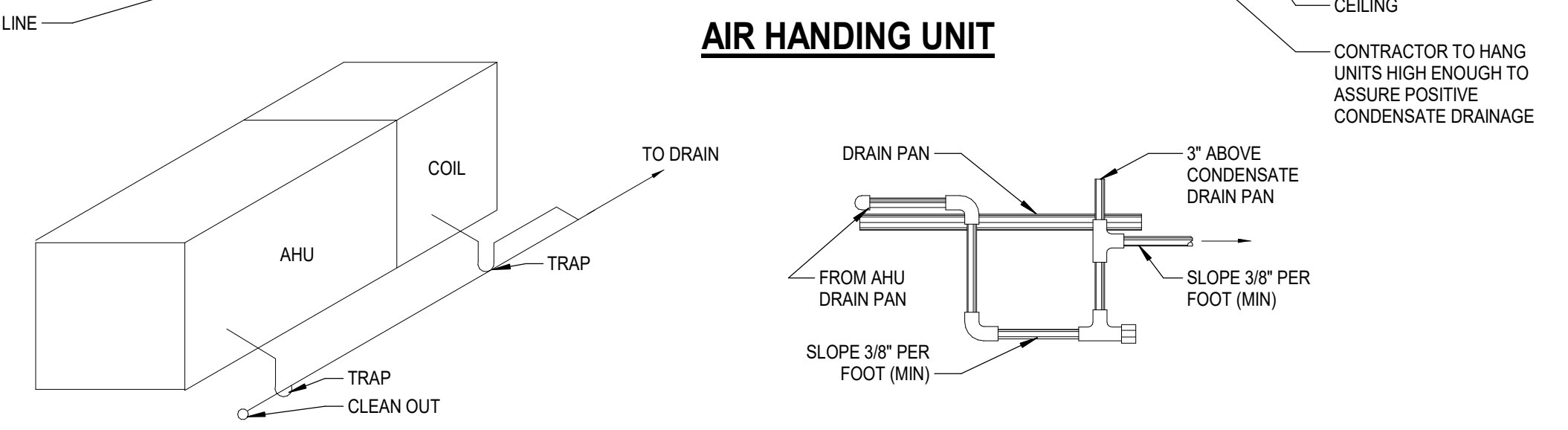
5 CONDENSING UNIT MOUNTING DETAIL
Scale: N.T.S.



9 ROOF DUCT SUPPORT AND PENETRATION DETAIL
Scale: N.T.S.



10 GAS FIRED HORIZONTAL FURNACE DETAIL
Scale: N.T.S.



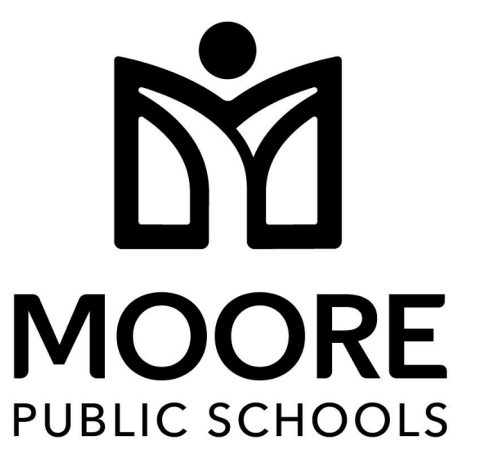
AIR HANDLING UNIT



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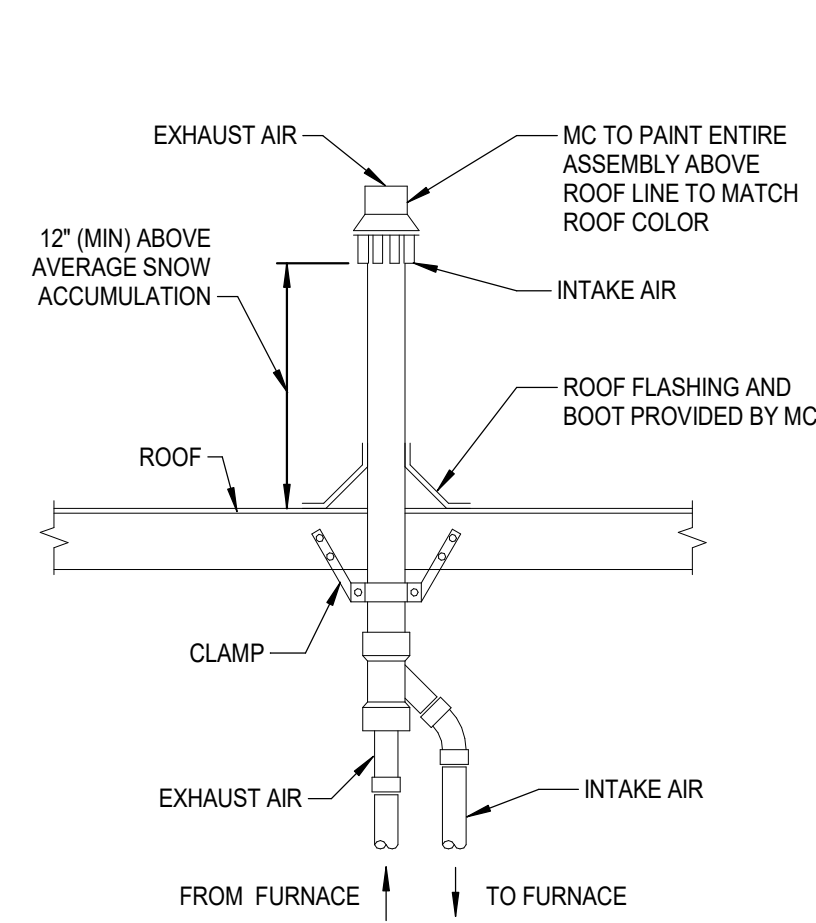


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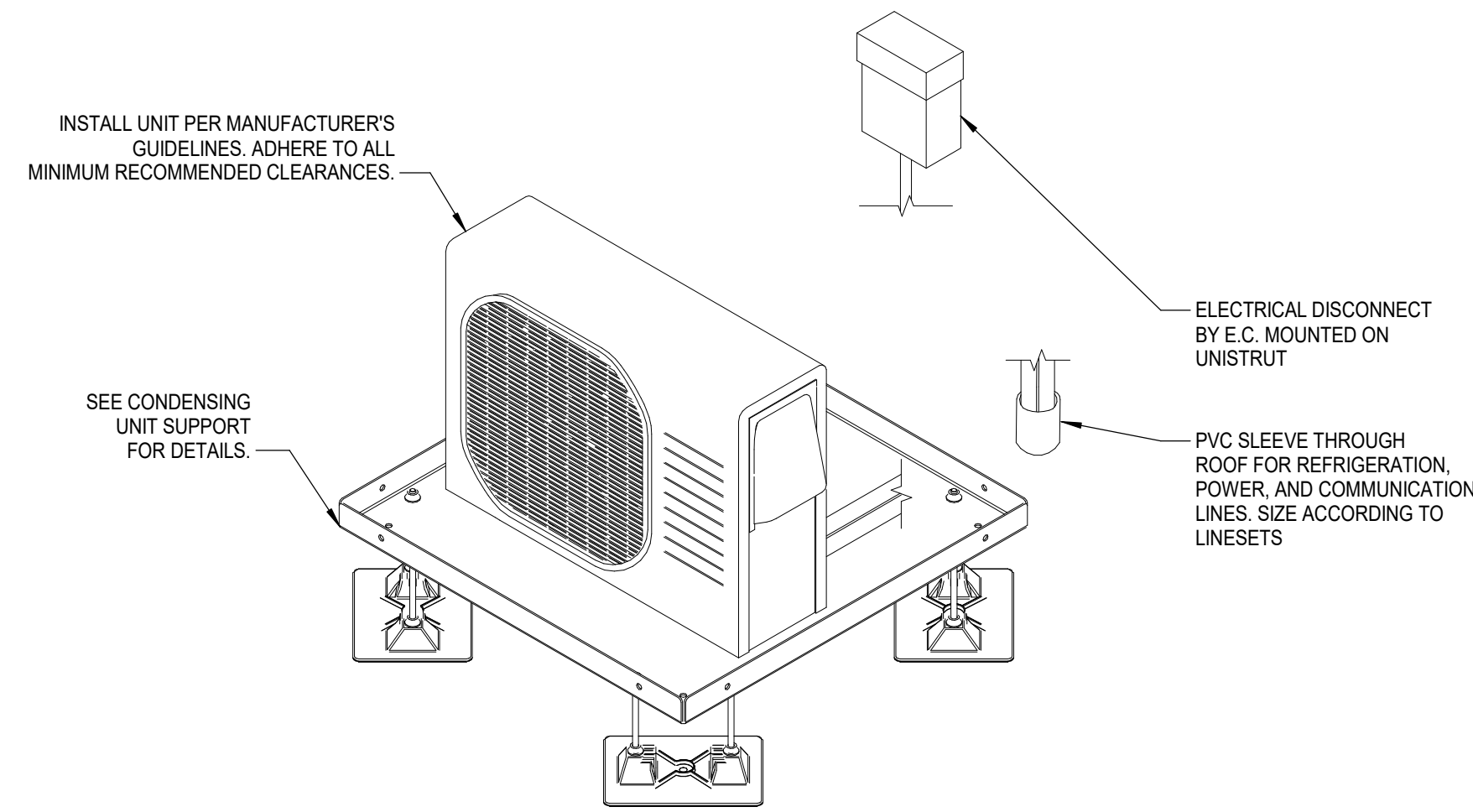
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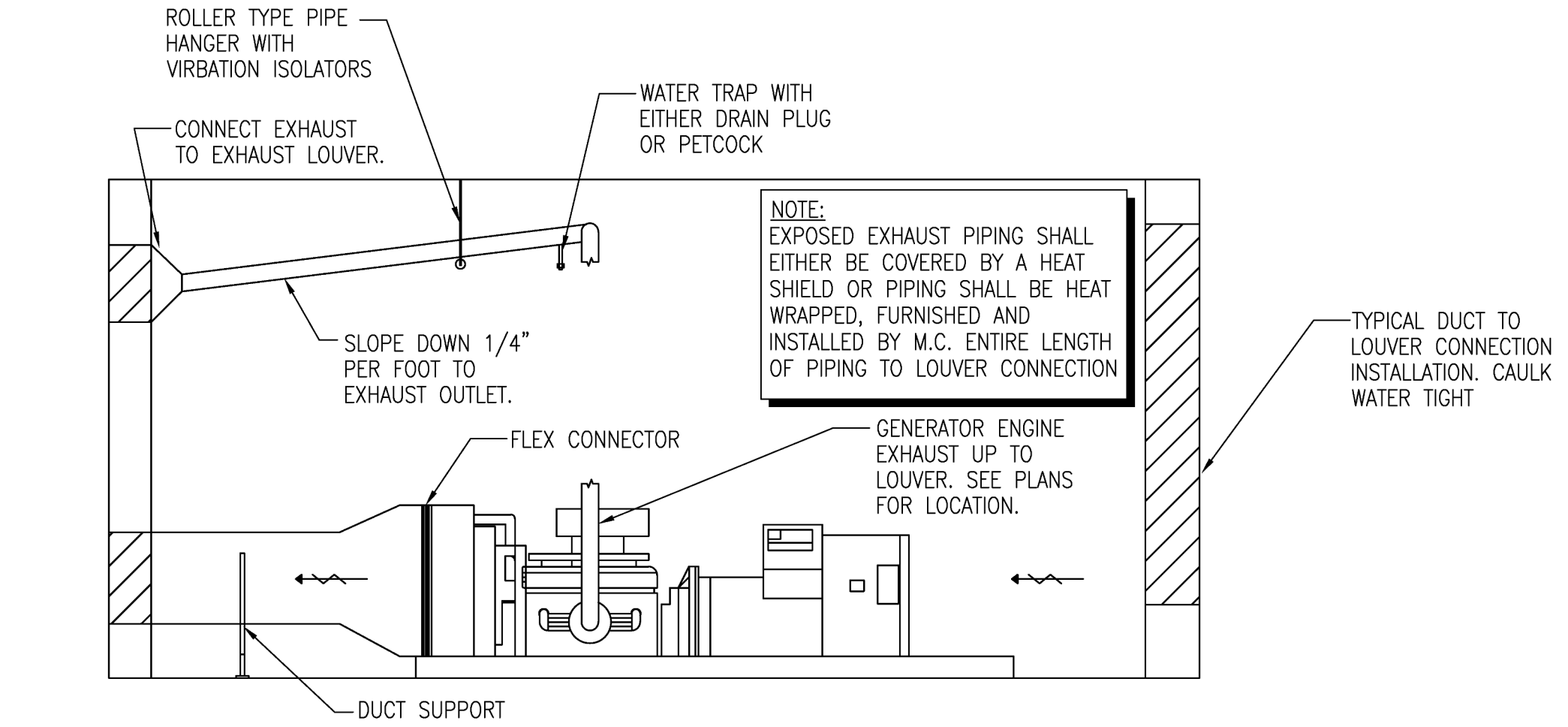
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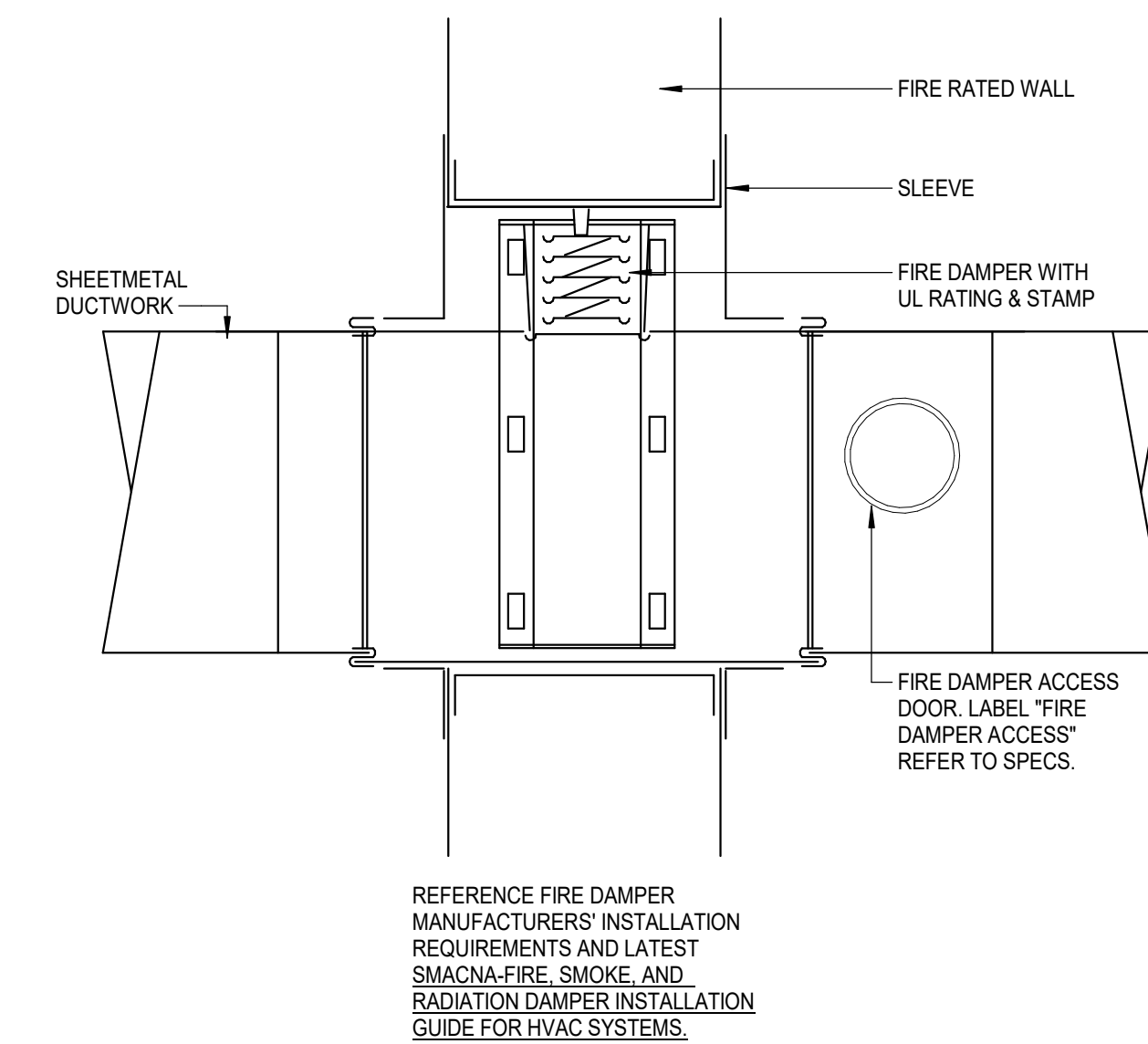
3 CONCENTRIC VENT THRU FLAT ROOF DETAIL
Scale: N.T.S.



2 MINI-SPLIT ROOF MOUNTED DETAIL
Scale: N.T.S.



1 GENERATOR DETAIL
NOT TO SCALE



4 FIRE DAMPER
Scale: N.T.S.

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DOAS/RTU FAN SCHEDULE – JOB#8329730

FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	ELECTRICAL INFORMATION										COOLING INFORMATION								REHEAT INFORMATION				GAS HEAT INFORMATION				A2L MINIMUM ROOM VOLUME			NOTES						
					BLOWER	TOTAL CFM	MAX OUTSIDE AIR CFM	RETURN AIR CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MDCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY		IEER	ISMRE2	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUS	OUTPUT BTUS		TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (FT ²)	AIRFLOW (CFM)	HEIGHT (FT)	
					DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.	IEER	ISMRE2	DB	WB	DESIRED	MAX	LBS/HR	NATURAL	154321	125000	53°F	7 IN. W.C. - 14 IN. W.C.	396.5	714	7.2												
2	DDAS-01	1	CAS-HVAC2-1.200-18-10T	CAPTIVEAIRE	18P-2	2000	1400	600	2043	2.000	5.00	3	460	34A	40A	99.0°F	75.0°F	91.8°F	71.5°F	48.5°F	48.5°F	48.5°F	139.3 MBH	94.0 MBH	18.6	7.3	70.0°F	60.5°F	48.8 MBH	96 MBH	39.4	NATURAL	154321	125000	53°F	7 IN. W.C. - 14 IN. W.C.	396.5	714	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

NOTES:
 1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL DR STAGED SCROLL NOT AN APPROVED EQUAL
 2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
 3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
 4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
 5. EC MOTOR CONDENSING FANS
 6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
 7. SUCTION LINE ACCUMULATOR
 8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
 9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
 10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
 11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 164 TURNDOWN WITH NG AND 134 TURNDOWN WITH LP
 12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
 13. FULLY MODULATING HOT GAS REHEAT
 14. 15 DEGREE LOW AMBIENT OPERATION
 15. HAIL GUARD FOR CONDENSING COIL
 16. BAROMETRIC RELIEF DAMPER
 17. DOWN DISCHARGE/DOWN RETURN
 18. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
 19. SCRR RATING OF 10kAMP

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						

CURB ASSEMBLIES

NO	DN FAN	TAG	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1	KEF-1		39 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED.
2	# 2	DDAS-01	4.3	242 LBS	CURB	49.500"W X 75.000"L X 30.000"H INSULATED 16 GAUGE.

1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULCASTM, & ASHRAE STANDARDS.

EXHAUST FAN INFORMATION – JOB#8329730

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DUI80HFA	CAPTIVEAIRE	2300	1.500	1202	ODD,PREMIUM	1.500	1.1980	3	208	6.6	531 FPM	192	15.3

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

CEDAR CREEK
CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL



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OLD SCHOOL REPLACEMENT

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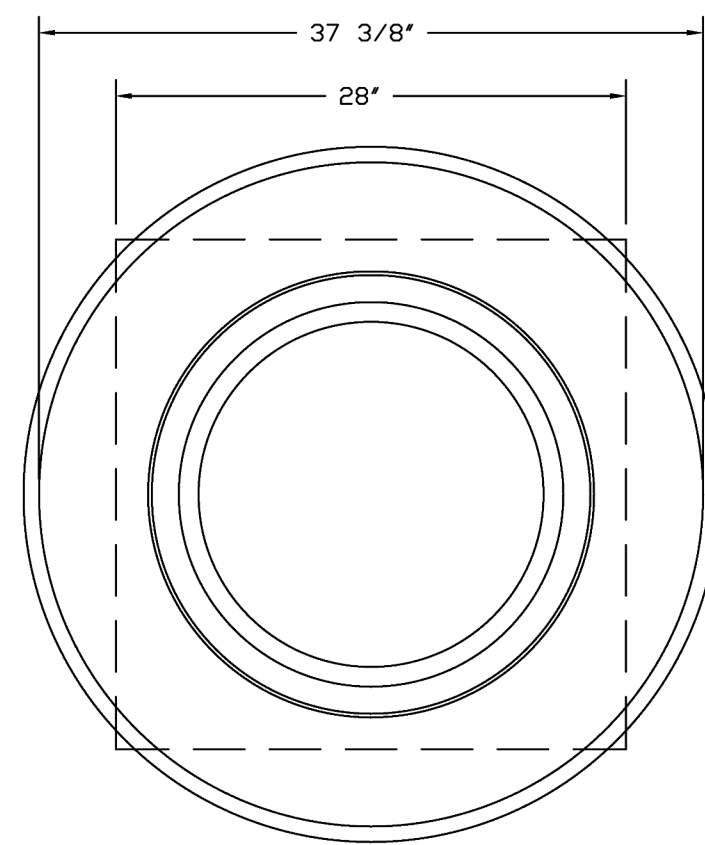
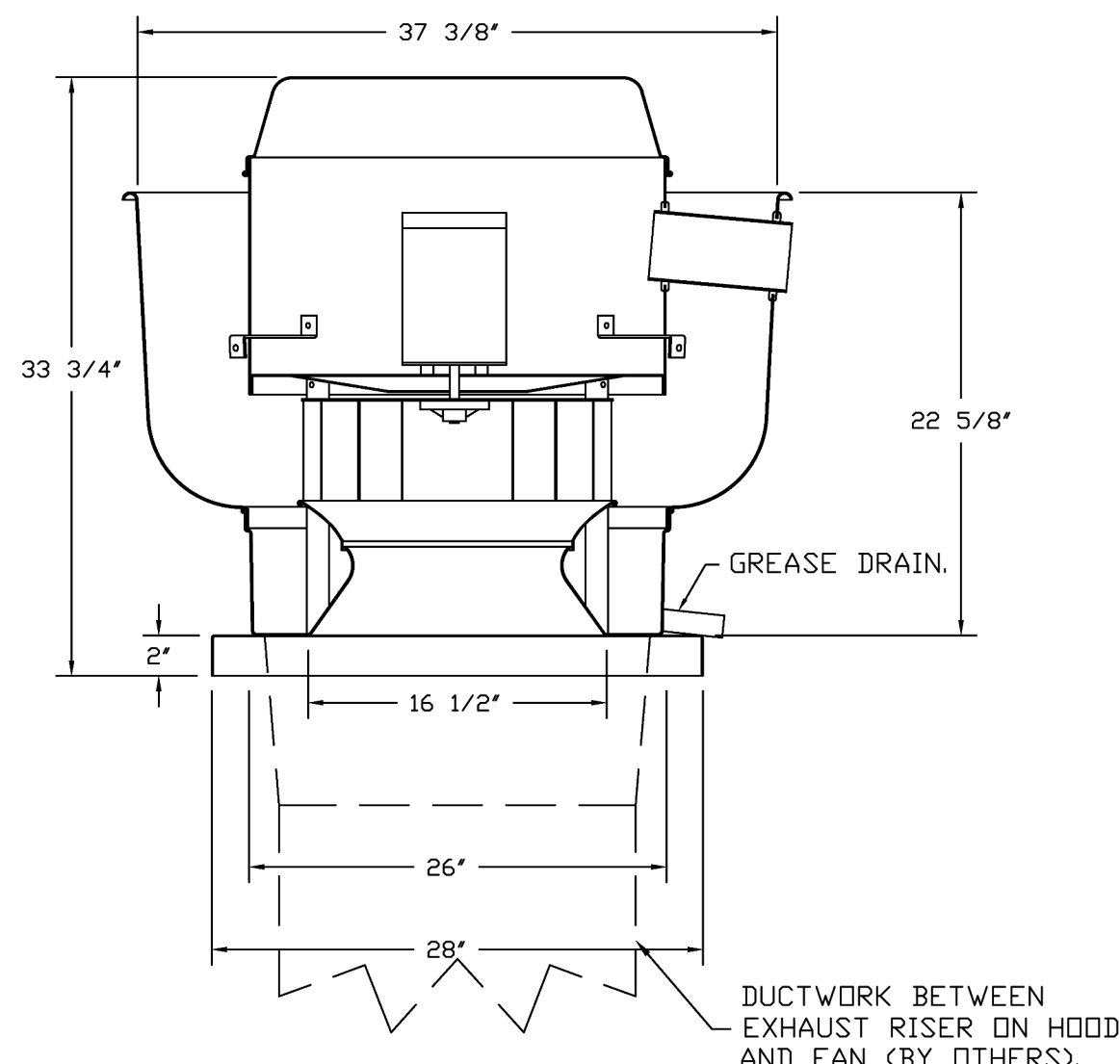
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FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR180HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED)
		1	VFD FACTORY MOUNTED AND WIRED IN EXHAUST FAN
		1	VFD MOUNTING BRACKET FOR DU/DR 180
		1	EXHAUST FAN HEAT BAFFLE
		1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	COOLING OVERRIDE
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU, 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
2	DDAS-01	1	CONSTRUCTION MODE - MODIFIES START-UP SETTINGS TO ALLOW TEMPERING A BUILDING STILL UNDER CONSTRUCTION
		1	RTU BLOWER DDDR SWITCH
		1	RTU2 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	BLOWER STOP DELAY. ALLOWS RESIDUAL HEAT TO BE TRANSFERRED INTO THE SUPPLY AIR AFTER HEATING HAS STOPPED. FACTORY SET AT: 90 SECS FOR 1BT, 30 SECS FOR DF
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	10 TON MODULATING COOLING OPTION, 208/230V, R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	LOW AMBIENT COOLING OPERATION - DOWN TO OF AMBIENT
		1	R454B LEAK DETECTOR OPTION FOR RTUS
		1	OCCUPIED SCHEDULING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	10 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	ZIEHL POWERED EXHAUST FOR RTU2 - MANUAL CONTROL. 2000 CFM MAX AT 0"
		1	RTU2 DOWN RETURN
		1	2" METAL MESH FILTERS FOR RTU2 OUTDOOR INTAKE
		1	RTU2 ECONDMIZER BAROMETRIC RELIEF
		1	RTU2 HAIL GUARD
		1	RTUVZH065 COMPRESSOR SOUND BLANKET 230/460/575V - FACTORY INSTALLED
		1	RTU SIZE 2 INTAKE HOOD, SHIPPED LOOSE
		1	RTU INTAKE/RETURN DAMPER - MANUAL CONTROL VIA HMI
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	DUCT MOUNTED SMOKE DETECTOR - SHIPS LOOSE
		1	120V FIRE INPUT
		1	HIGH TURNDOWN OPTION FOR DDAS UNITS
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES
1	VAV PACKAGE W/ MANUAL/DDC CONTROL (S71 VFD INCLUDED)		
1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)		
1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET		

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 - SPACE		AVERAGED	56

FAN #1 DU180HFA - EXHAUST FAN (KEF-1)



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

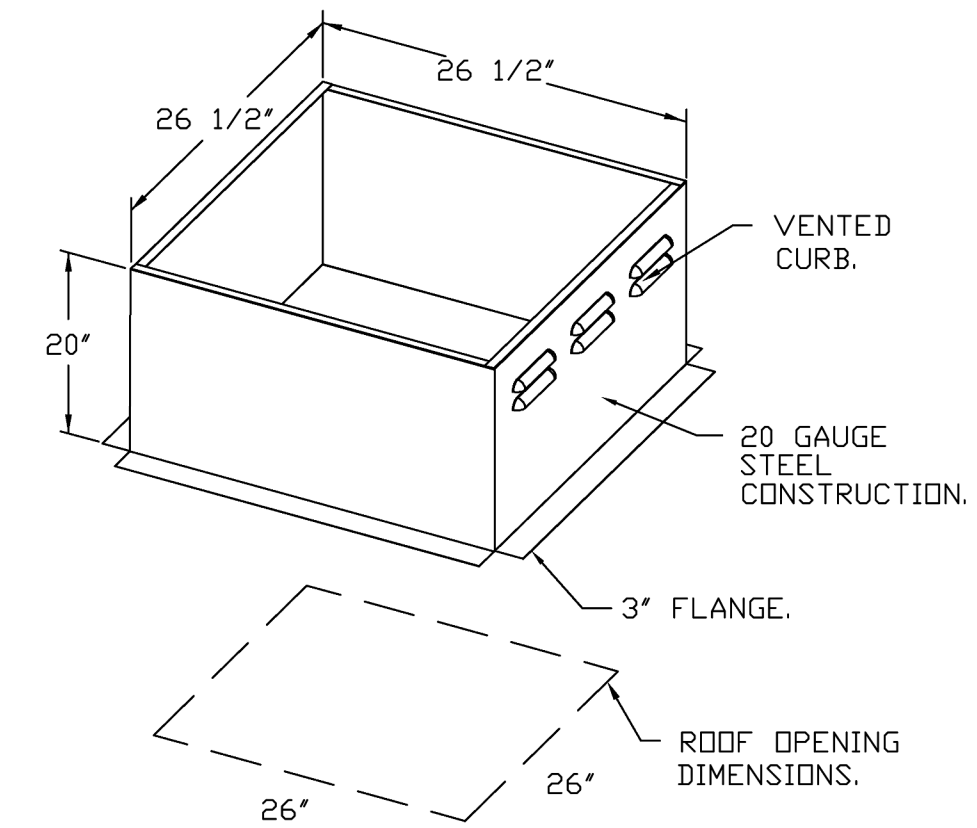
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR180HFA
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- VAV PACKAGE W/ MANUAL CONTROL (VFD INCLUDED).
- VFD FACTORY MOUNTED AND WIRED IN EXHAUST FAN.
- VFD MOUNTING BRACKET FOR DU/DR 180.
- EXHAUST FAN HEAT BAFFLE.
- 2 YEAR PARTS WARRANTY.



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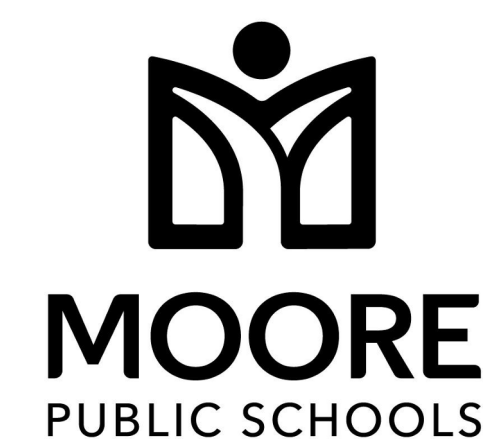
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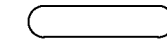
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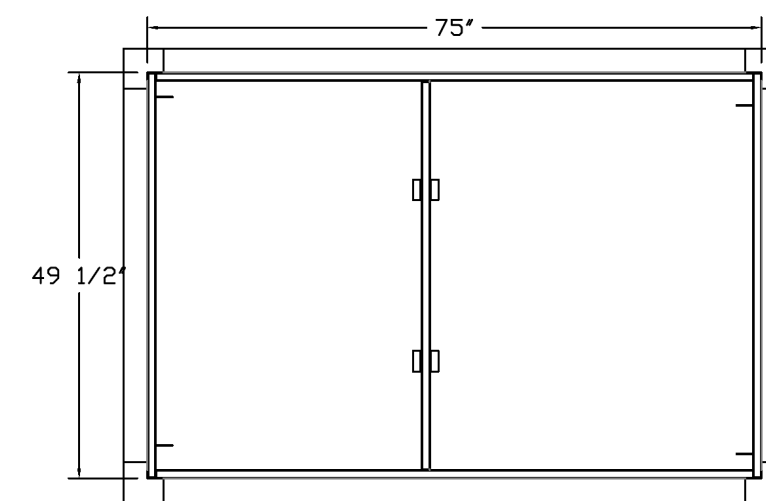
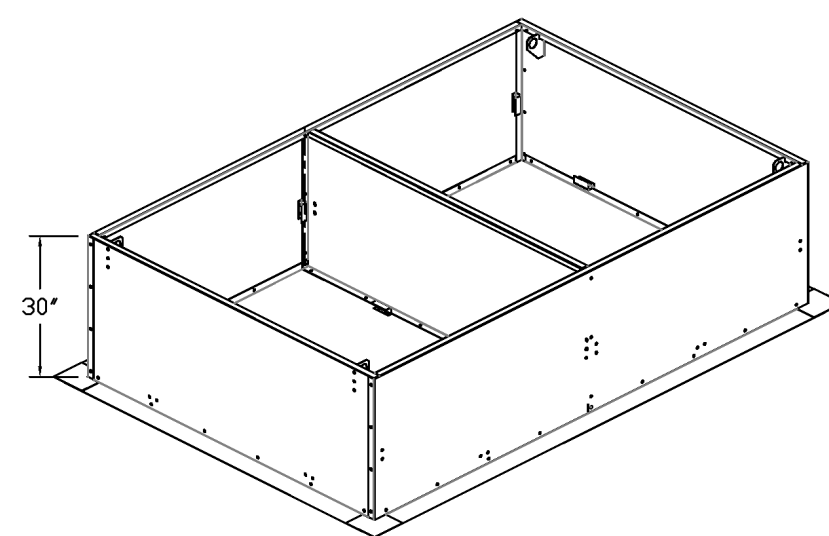
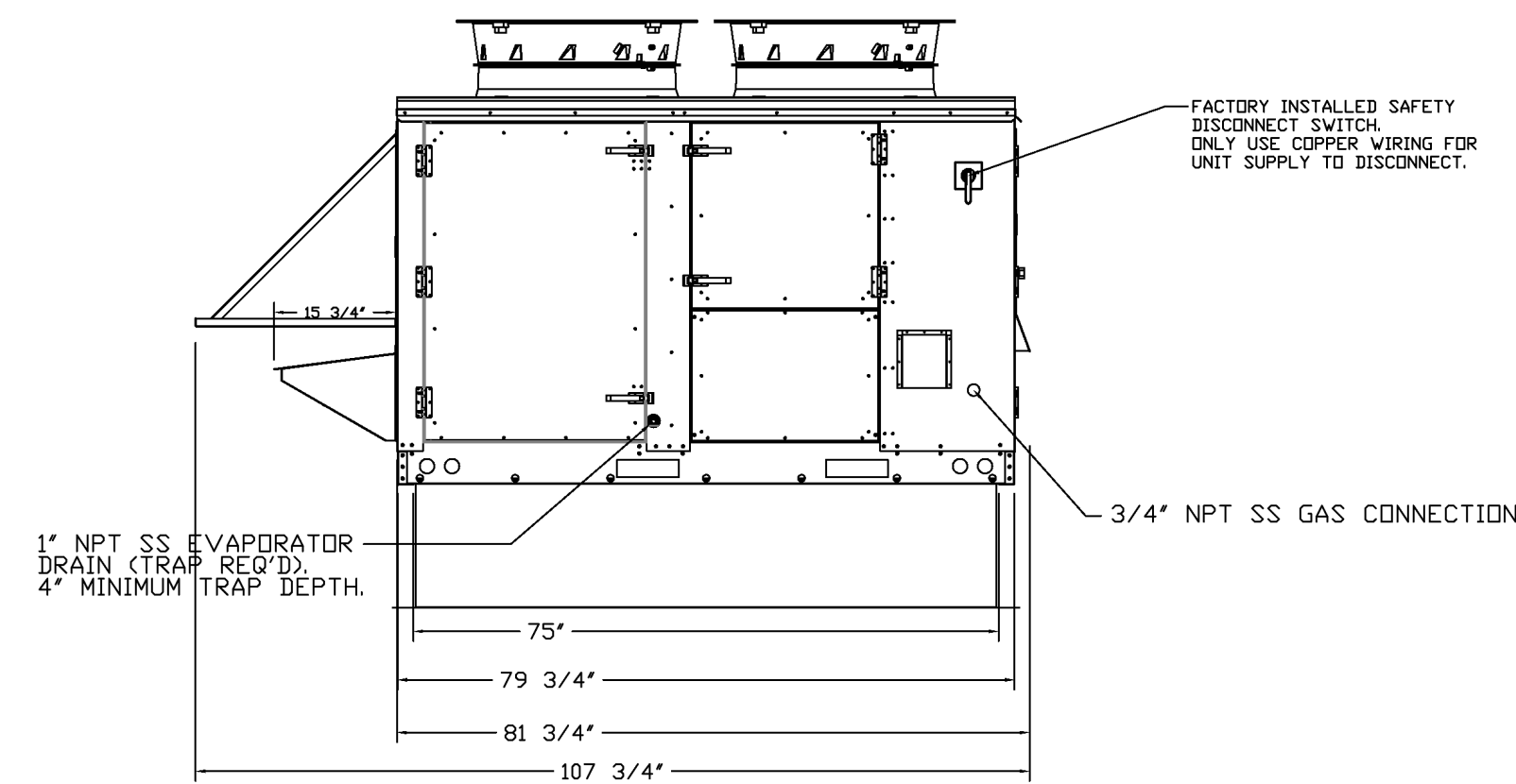
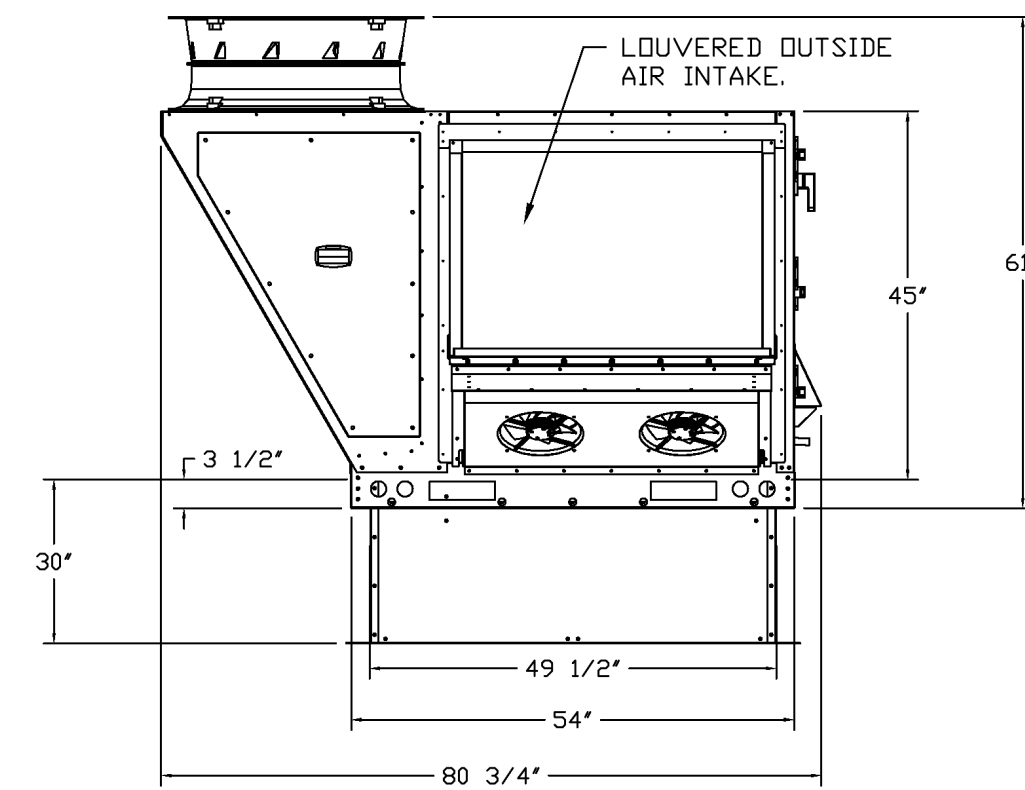
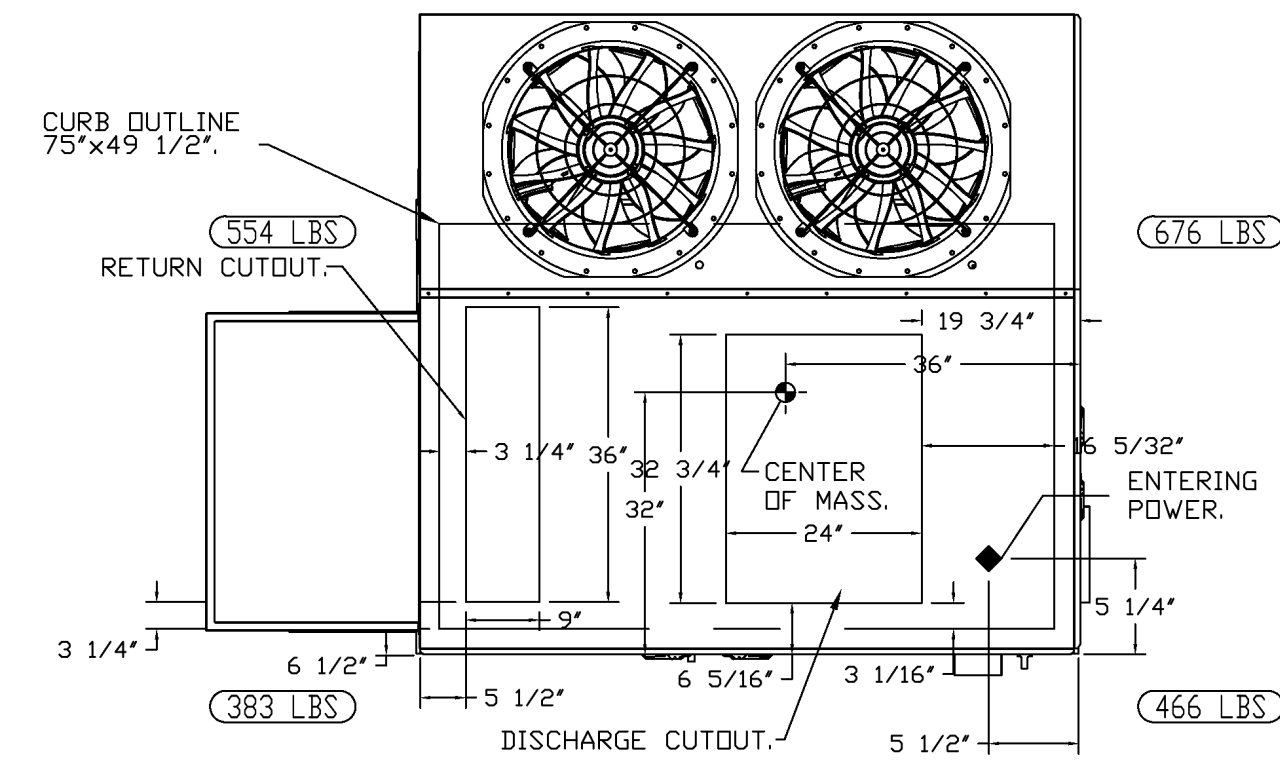
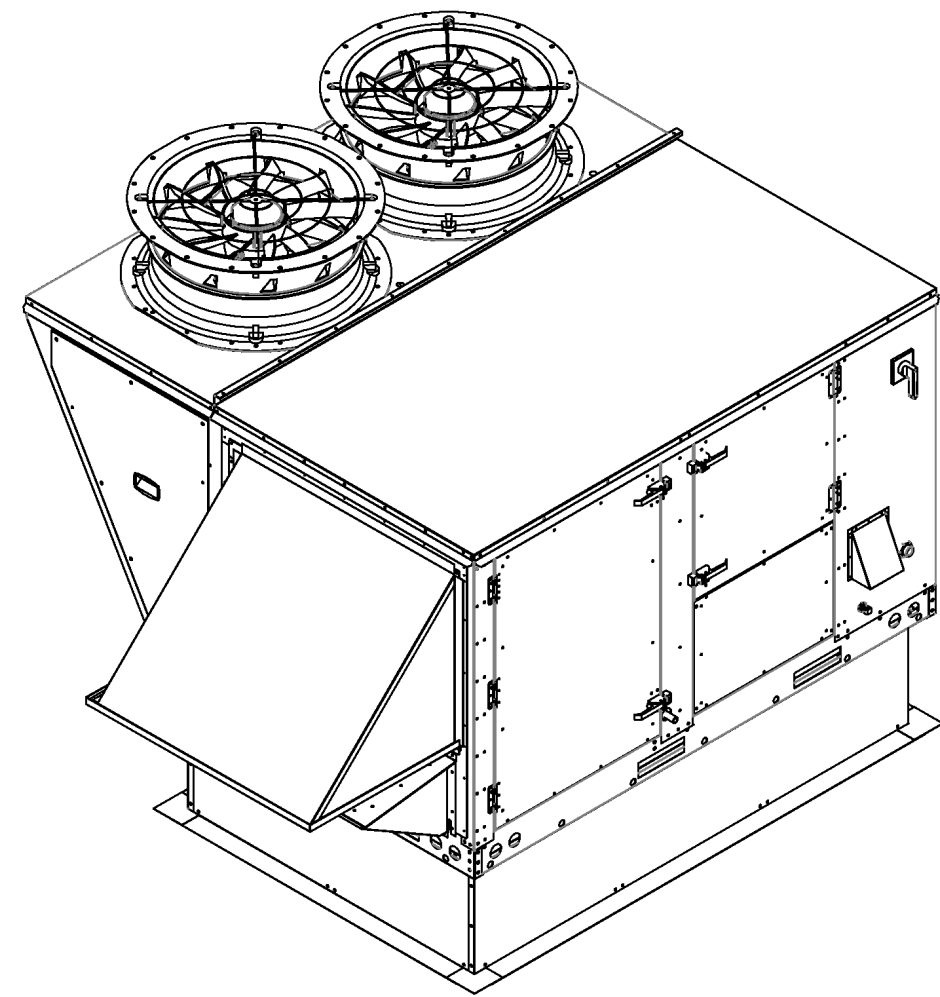
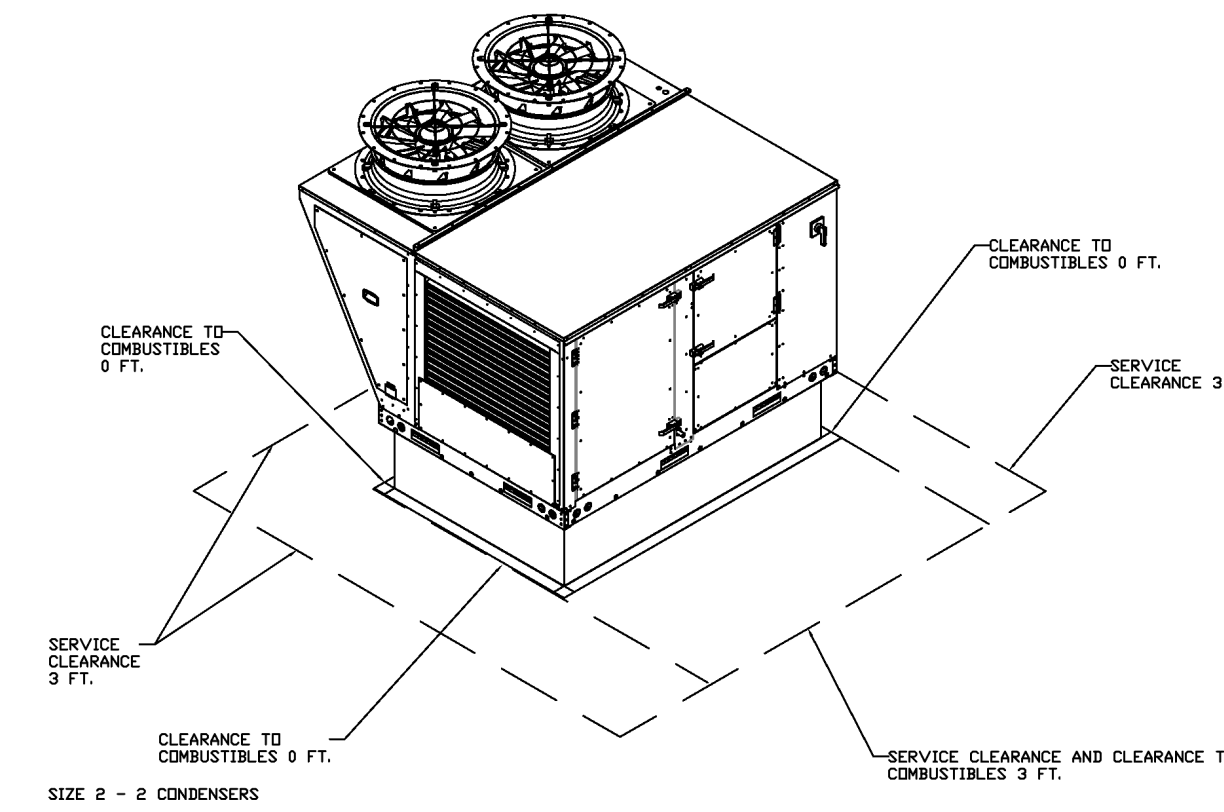
FAN #2 CAS-HVAC2-1,200-18-10T - HEATER (DOAS-01)

NOTES:

- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
- EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED RETURN STRAIGHT DUCT SIZE IS 36" x 9".



AIR DIFFUSION SUPPLY DUCT SPECIFICATIONS:
 PROVIDE AIR DIFFUSION SUPPLY DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL DW-S0(HC), DW-S90(HC), & DW-S180(HC).
 THREE DISTINCT HOLE PATTERN OPTIONS TO COVER A VARIETY OF CEILING HEIGHTS.
 NO ADDITIONAL DIFFUSERS REQUIRED, AS THE DUCT ITSELF PROVIDES AIR DIFFUSION.
 MADE OF HIGH QUALITY STAINLESS STEEL DESIGNED TO LAST 20+ YEARS.
 HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 24 GAUGE, 430 SS - 5' THRU 24'.
 HIGH INDUCTION SUPPLY DUCT IS CONSTRUCTED USING 20 GAUGE, 430 SS - 26' THRU 36'.
 QUICK ONSITE ASSEMBLY USING EPDM GASKETS & UNIVERSAL V-BANDS.
 DOUBLE WALL SUPPLY DUCT AVAILABLE FOR INTERIOR AND EXTERIOR SPACES, EITHER CONDITIONED OR UNCONDITIONED.
 DOUBLE WALL SUPPLY DUCT AVAILABLE IN DW-1S, DW-2S, & DW-3S TO MEET SPECIFIC REGIONAL 'R' VALUE REQUIREMENTS.

Insulation R-Value Recommendations		
Supply Duct Type	Minimum R-value	Space Type
Single Wall - S & -HC	N/A	Conditioned Space Only
Double Wall - 1S	R-4	Unconditioned Interior Space Only
Double Wall - 2S	R-8	Unconditioned Space Climate Zones 1-4
Double Wall - 3S	R-12	Unconditioned Space Climate Zones 5-8

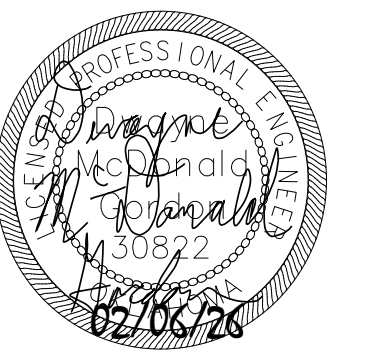
DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.
 AIR DIFFUSION SUPPLY DUCT COMPLIES WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS) BEST PRACTICES.
 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE, SEE NFPA 13, TABLE 8.12.5.1.1.

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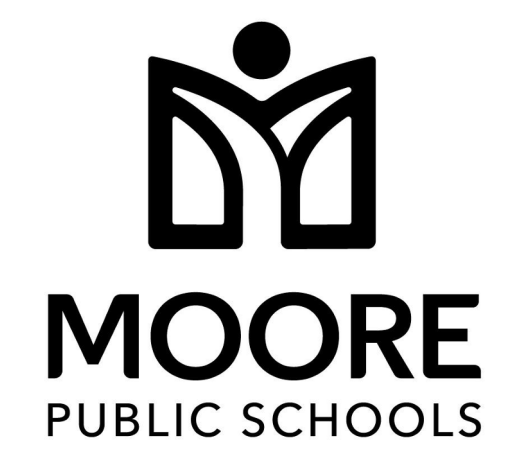
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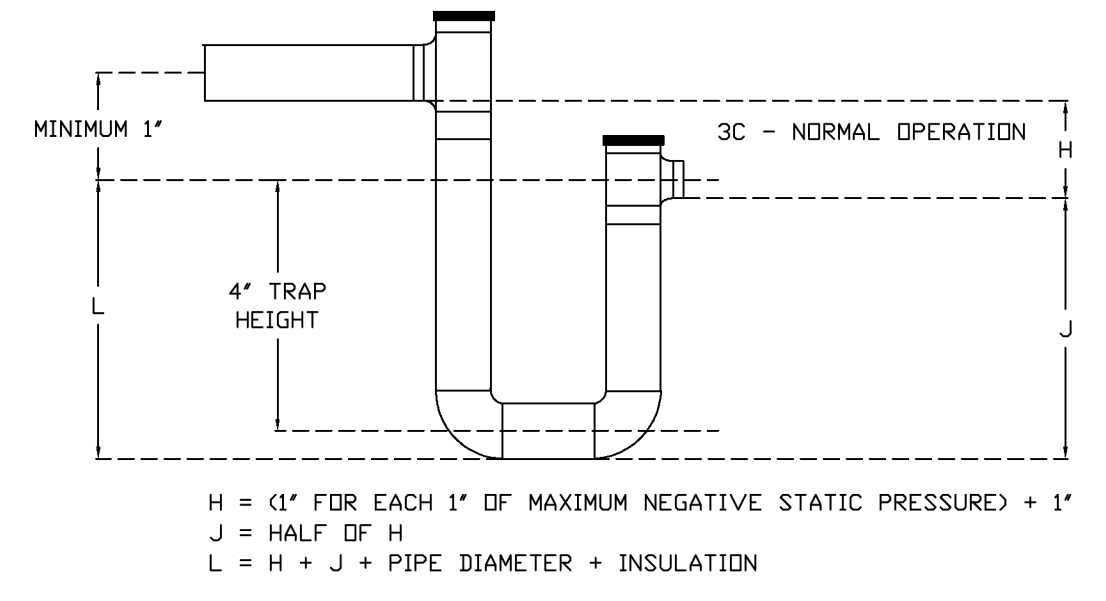
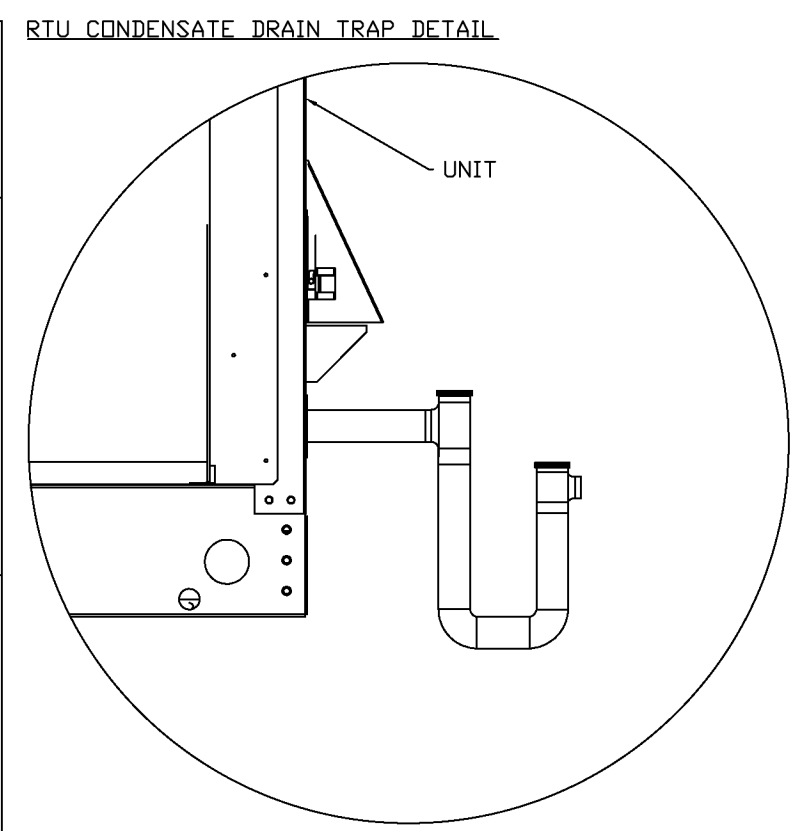
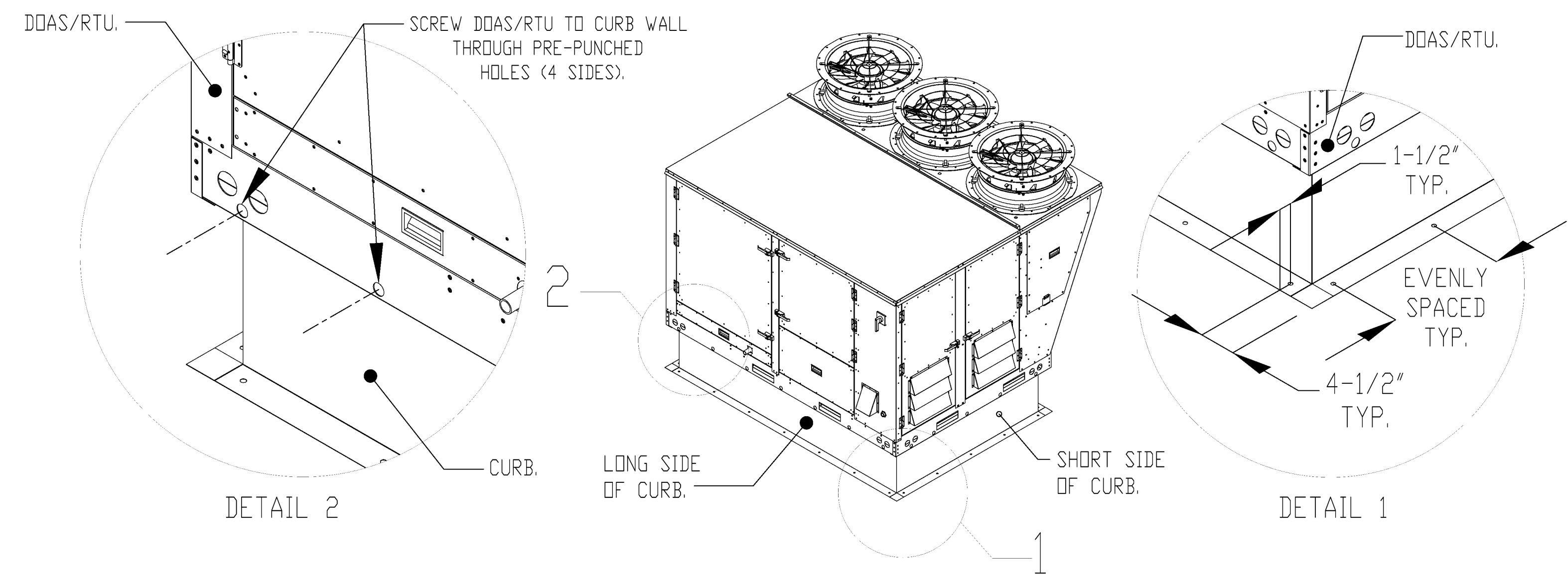
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TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.
2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

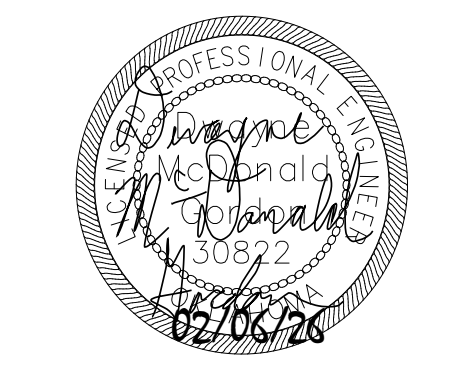
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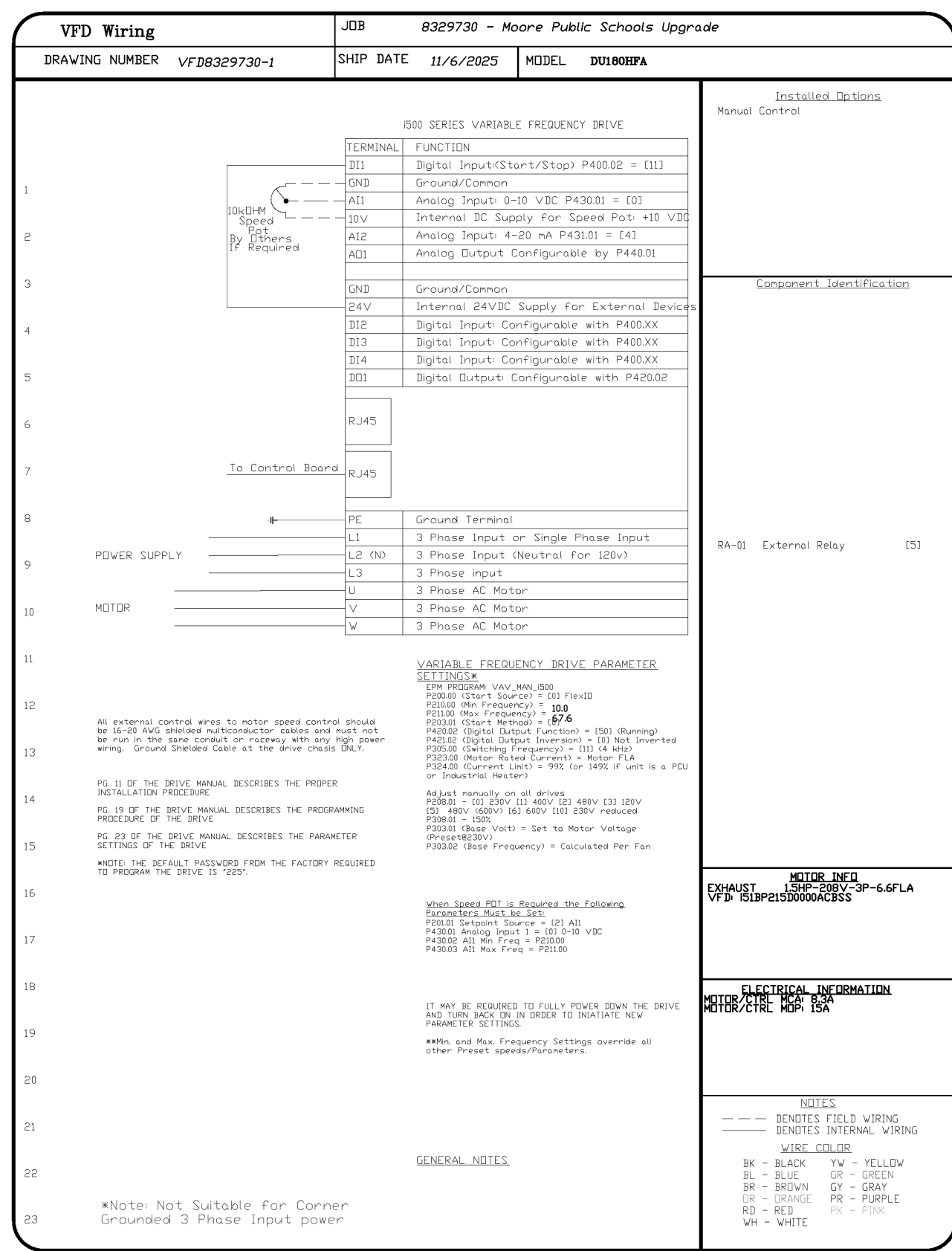
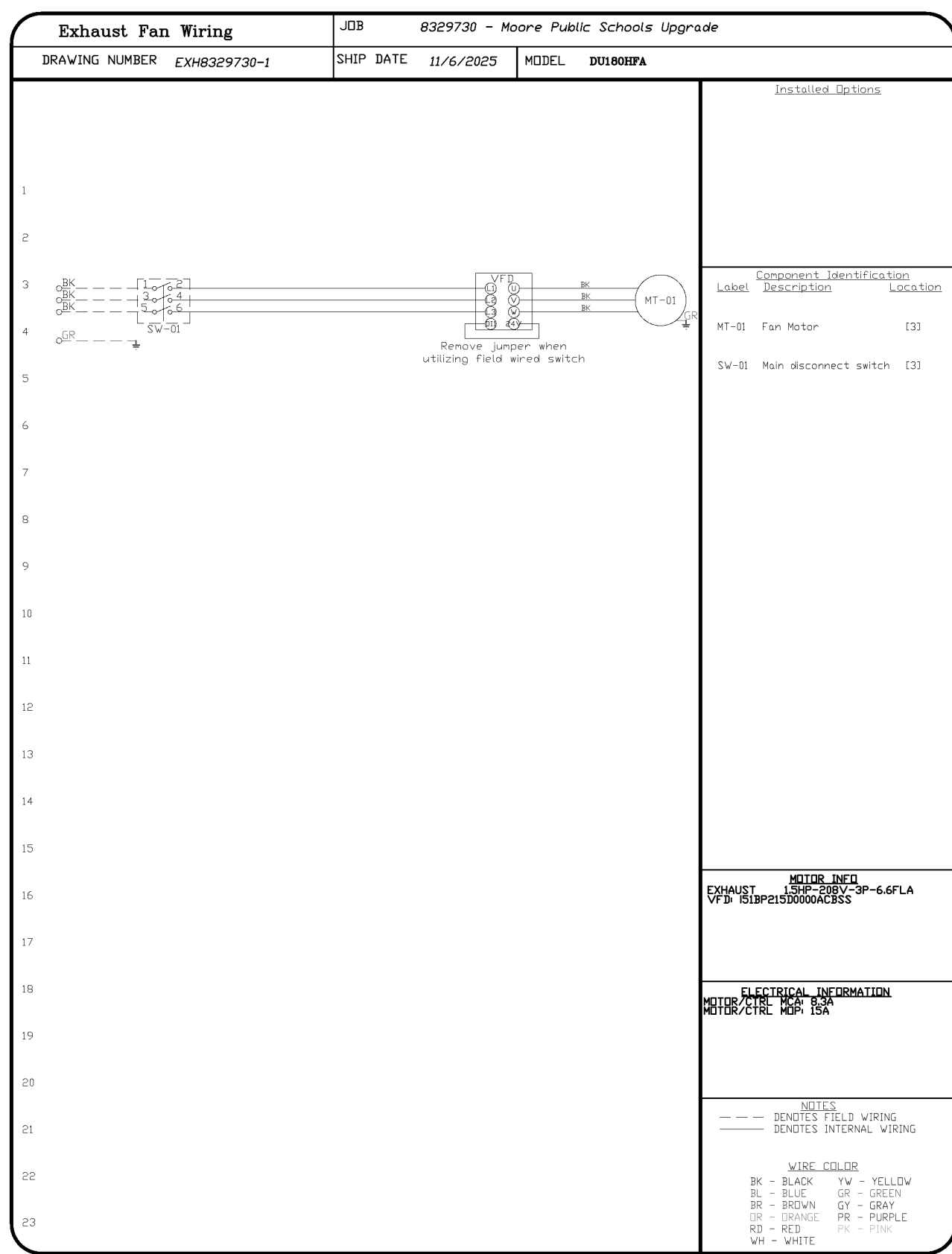
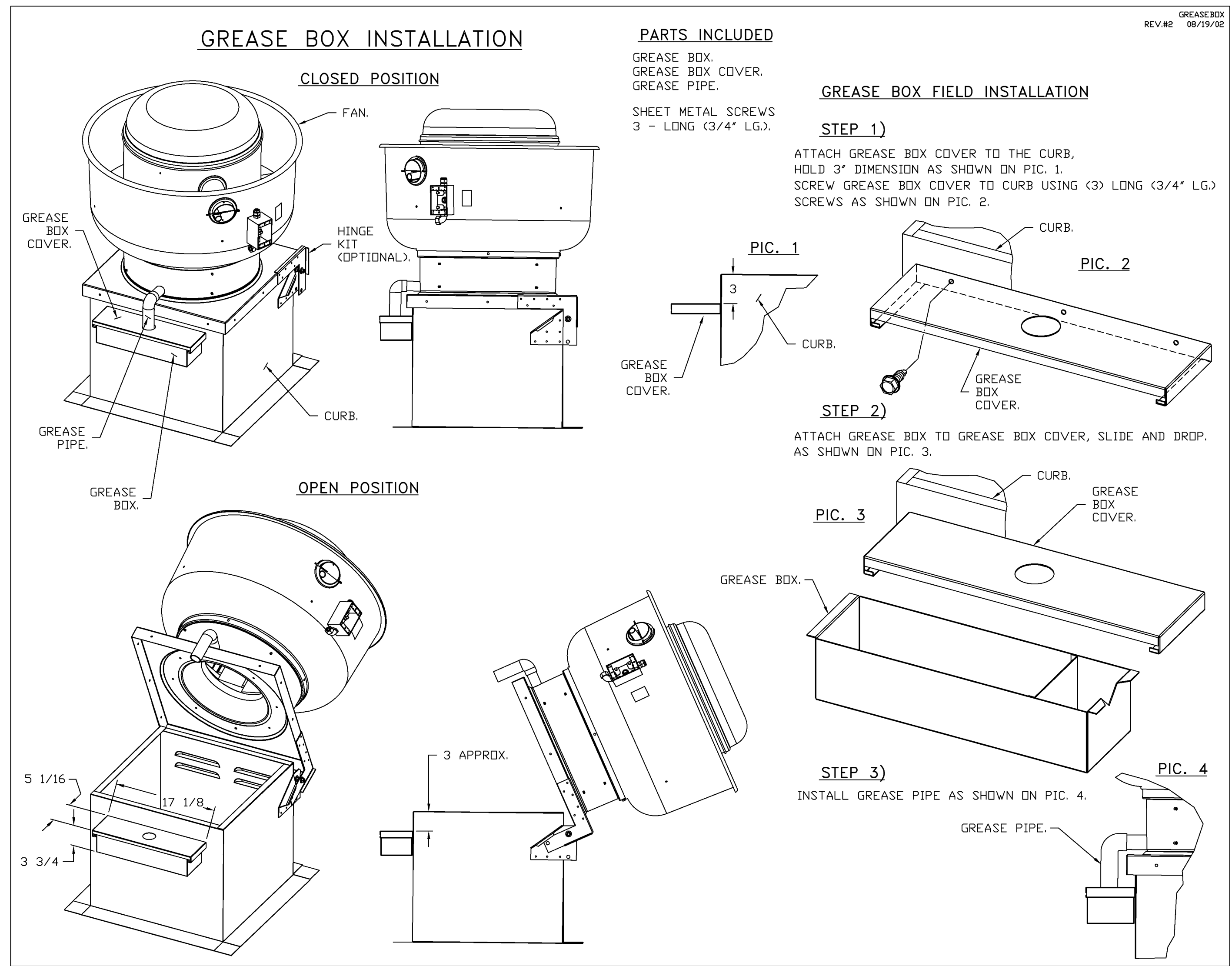
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