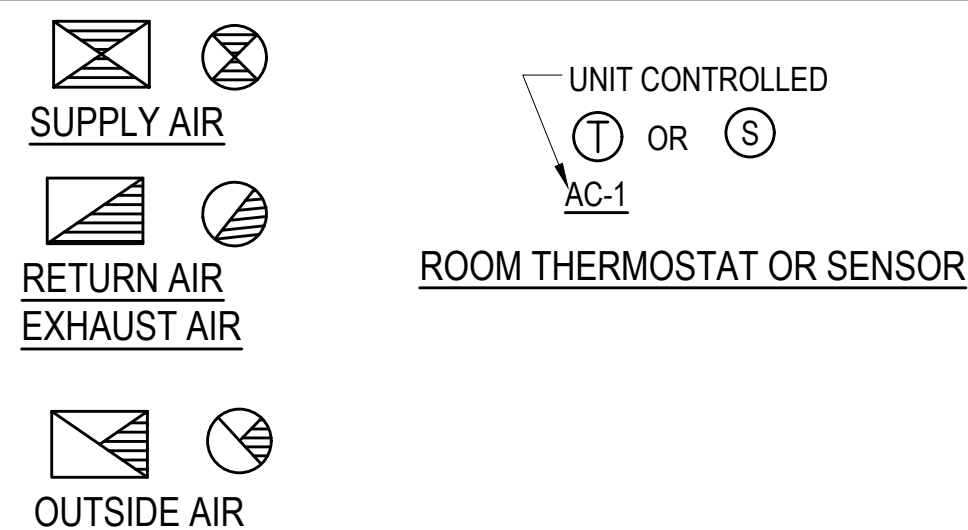


HVAC LEGEND



CONSTRUCTION STANDARDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR FLOW DIRECTION		RECTANGULAR DUCT RISER
	RETURN/EXHAUST AIR FLOW DIRECTION		ROUND DUCT RISER
	VOLUME DAMPER		RECTANGULAR DUCT DROP
	MOTORIZED DAMPER W/ ACTUATOR AND ACCESS DOOR		ROUND DUCT DROP
	MOTORIZED DAMPER EXTERNAL TYPE		RECTANGULAR OFFSET W/ STANDARD FITTINGS (30, 45, 60)
	AIRFLOW MONITORING STATION		RECTANGULAR WYE
	ELBOW WITH TURNING VANES		ROUND WYE
	RADIUS ELBOW		BELLMOUTH
	RECTANGULAR MAIN WITH RECTANGULAR BRANCH		ROUND MAIN DUCT WITH ROUND BRANCH
	CONCENTRIC SQUARE TO ROUND		CONICAL TEE
	EXECUTRIX (RECTANGULAR OR ROUND)		CONCENTRIC ROUND TRANSITION
	SQUARE TEE		FLEXIBLE CONNECTION
	DOUBLE FORMED TURNING VANES		ROUND DUCT
	FIRE/SMOKE DAMPER AT FLOOR (HORIZONTAL)		LATERAL FITTING
	FIRE DAMPER AT FLOOR (HORIZONTAL)		RECTANGULAR MAIN WITH SIDEWALL GRD
	FIRE DAMPER (VERTICAL)		RECTANGULAR MAIN WITH ROUND BRANCH
	FIRE/SMOKE DAMPER (VERTICAL)		

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
ACC	ACCESSORIES
ACCU	AIR-COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AMP	AMPERE
BTU	BRITISH THERMAL UNITS
CAP	CAPACITY
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
COND	CONDENSER
CR	CEILING RETURN DIFFUSER
CTG	CEILING TRANSFER DIFFUSER
CU	CONDENSING UNIT
CS	CIRCUIT SETTER
DH	DUCT HEATER
DIA	DIAMETER
DN	DOWN
E	EXISTING
EF	EXHAUST FAN
ELEV	ELEVATION
FC	FAN COIL UNIT
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FILTER RACK
FSD	FIRE SMOKE DAMPER
HP	HORSE POWER
HTR	HEATER
GA	GAUGE
GAL	GALLONS
GP	GALLONS PER HOUR
LB	POUNDS
LS	LINEAR SLOT DIFFUSER
LR	LINEAR RETURN DIFFUSER
MBH	BTU PER HOUR (THOUSAND)
MD	MOTORIZED DAMPER
MFG	MANUFACTURER
MT	MOUNT
NEW	N
OB	OPPOSED BLADE DAMPER
OC	ON CENTER
OFR	OPERATING OUTSIDE AIR
OSA	OPERATING OUTSIDE AIR
PH	PHASE
PTAC	POND WINDOW HEAT PUMP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RD	ROOF DRAIN
RH	HUMIDITY
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERANT SUCTION LINE
	SMOKE DETECTOR
SA	SUPPLY AIR
SWE	SIDEWALL EXHAUST GRILLE
SWS	SIDEWALL SUPPLY REGISTER
SP	STATIC PRESSURE
SQFT	SQUARE FOOT
SURF	SURFACE
SWR	SIDEWALL RETURN GRILLE
SWT	SIDEWALL TRANSFER GRILLE
THRU	THROUGH
	TIE IN POINT
TSTAT	THERMOSTAT
TYP	TYPICAL
VAV	VARIABLE VOLUME
V	VOLTS
	UNDER CUT DOOR 1"

GENERAL NOTES

- DO NOT SCALE DRAWINGS. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF COMPONENTS.
- DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL SIZE AND LOCATION OF EQUIPMENT, DUCT WORK AND PIPING MAY VARY DUE TO MANUFACTURER OR FIELD CONDITIONS. COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE AND ACCESSIBILITY AS REQUIRED BY MANUFACTURERS.
- INSTALLATION SHALL COMPLY WITH THE GOVERNING CODES AND REGULATIONS. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NON RESIDENTIAL BUILDINGS AND GUAM BUILDING ENERGY CODE.
- ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
- ACCESS PANELS IN HARD CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. CONCEALED HARD CEILING REGULATORS MAY BE USED IN HARD CEILINGS IN LIEU OF ACCESS PANELS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE MOST RECENT REVISION OF THESE PLANS AND SUBMITTALS PRIOR TO CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR FAILURE TO REVIEW AND CLARIFY ANY DISCREPANCIES. SEE ELECTRICAL PLANS FOR POWER AND CONTROL REQUIREMENTS.
- ALL TEMPORARY UTILITY SYSTEM SHUT OFF AND WORK SHALL BE DONE ACCORDING TO THE PHASING PLAN TO AVOID DISCONTINUITY OF SERVICES TO MATERNITY WARD.

EQUIPMENT NOTES

- LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
- PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
- ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 15'-0" FROM EXHAUST FANS AND / OR VENTS.
- HVAC UNITS SHALL BE MOUNTED LEVEL ON FACTORY CURBS OR CONCRETE PADS AND RESTRAINED FOR SEISMIC CATEGORY D AND 170 MPH WIND LOAD.
- ALL UTILITY PIPING/CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
- OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL HAVE MOTORIZED DAMPERS THAT CLOSE WHEN THE SYSTEM IS SHUT OFF, DURING BUILDING WARM-UP, COOL DOWN AND/OR SETBACK.
- MOTORIZED OUTDOOR AND EXHAUST DAMPERS SHALL HAVE A MAXIMUM LEAK RATE OF 4 CFM PER SQFT @ 1" WG PER AMCA 500-1998, EXCEPT PACKAGED EQUIPMENT SHALL BE 20 CFM/FT @ 1" WG.

HVAC NOTES

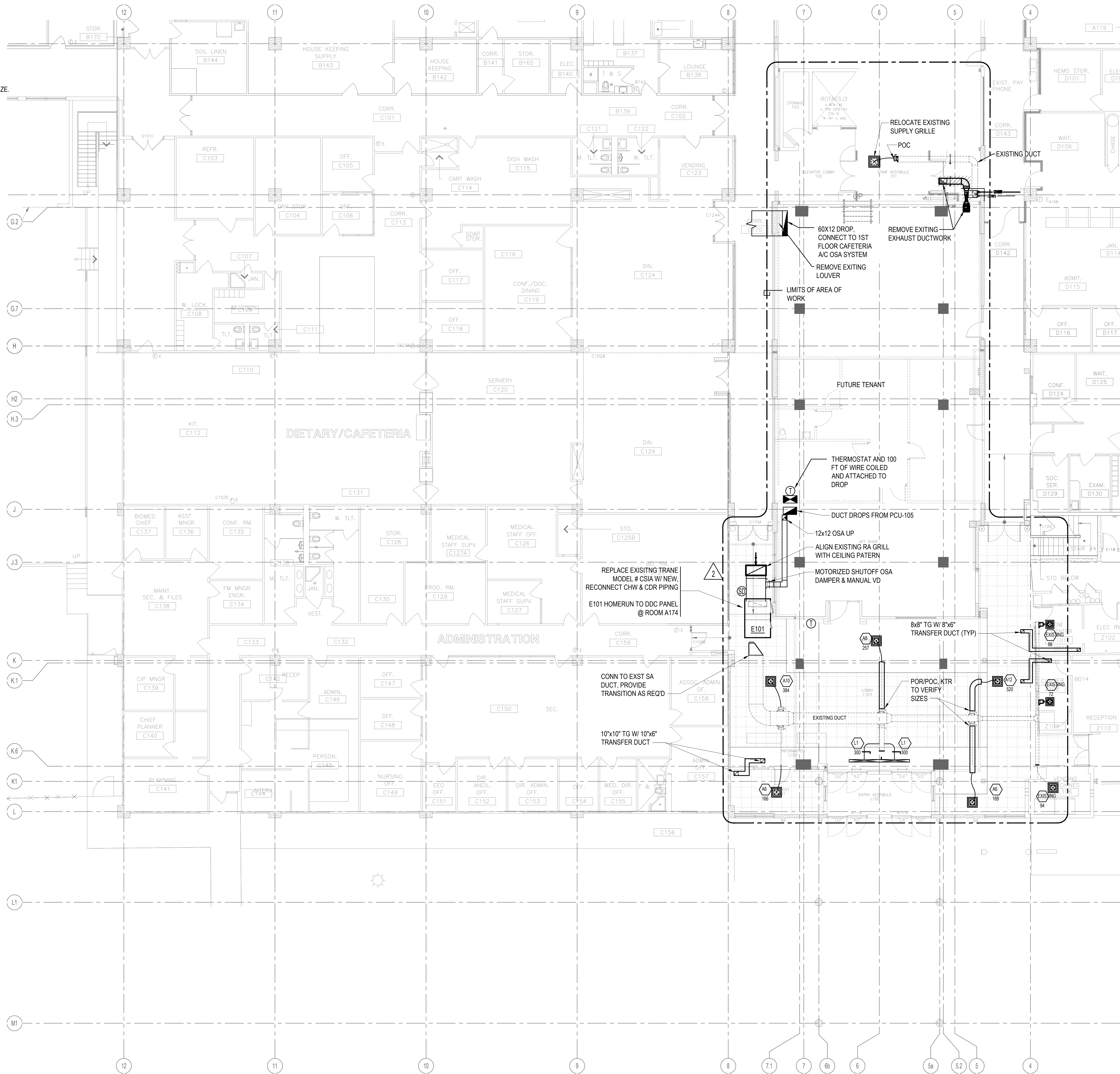
- CONCEAL ALL DUCTWORK INSIDE WALLS AND/OR ABOVE CEILINGS, UNO.
- DUCTWORK SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS. SUPPORT DUCT WORK PER CODE. SEAL DUCTWORK PER RS-18, 1/2" SP TO 1" SP SEAL TRANSVERSE JOINTS.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- DUCTS SHALL BE INSULATED AND SEALED PER GUAM ENERGY CODE. INTERIOR DUCTS SHALL BE INSULATED ABOVE THE BUILDING BARRIER.
- ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKE-OFFS FOR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS.
- ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 5'-0", WHICH MAY BE FLEX.
- PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.
- THERMOSTAT TO BE 7 DAY PROGRAMMABLE UNLESS NOTIFIED OTHERWISE. MOUNT THERMOSTAT AT 48" A.F.F..
- HUMIDITY SENSOR TO BE MOUNTED IN RETURN AIR DUCT OF EACH DUCTED A/C UNIT.
- SMOKE DETECTORS SHALL BE INSTALLED IN RETURN DROP AND SHALL DEACTIVATE THE EQUIPMENT UPON SENSING SMOKE. SMOKE DETECTOR SHALL BE INSTALLED IN RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS. SMOKE DETECTORS REQUIRED IN ALL SYSTEMS >2000 CFM. ALL AIR MOVING SYSTEMS >2000 CFM SHALL BE EQUIPPED WITH AUTOMATIC SHUTOFF
- FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C.

APPLICABLE CODES & STANDARDS

- INTERNATIONAL BUILDING CODE, 2009.
- INTERNATIONAL FIRE CODE, 2009.
- INTERNATIONAL MECHANICAL CODE, 2018.
- INTERNATIONAL ENERGY CONSERVATION CODE, 2018.
- FACILITY GUIDELINES INSTITUTE (FGI) GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS, 2010.
- ASHRAE STANDARD 170, VENTILATION OF HEALTH CARE FACILITIES, 2008.
- ASHRAE STANDARD 62.1, VENTILATION AND ACCEPTABLE INDOOR AIR QUALITY, 2010.
- ASHRAE STANDARD 90.1, ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS.

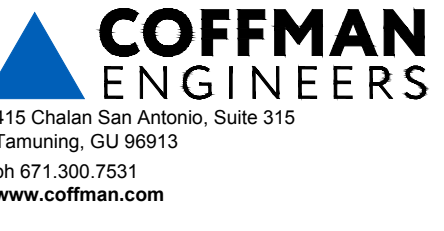
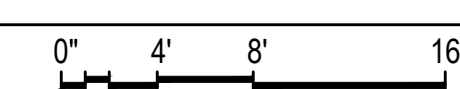
CONSTRUCTION NOTES:

- EXISTING AHU E101 TO BE REPLACED, SEE SCHEDULE FOR EQUIPMENT SIZE.
- HYGIENICALLY CLEAN EXISTING AHU DUCTWORK NOTED FOR RE-USE, COORDINATE WITH HOSPITAL TO REPLACE EXISTING AHU DUCTING IF NEEDED BY CONSTRUCTION EFFORT.

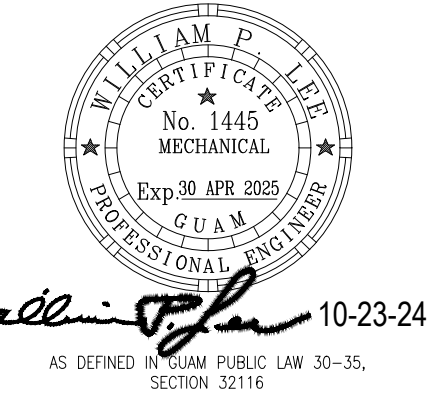


1 PARTIAL FIRST FLOOR MECHANICAL PLAN

M101 1/8" = 1'-0"



I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.



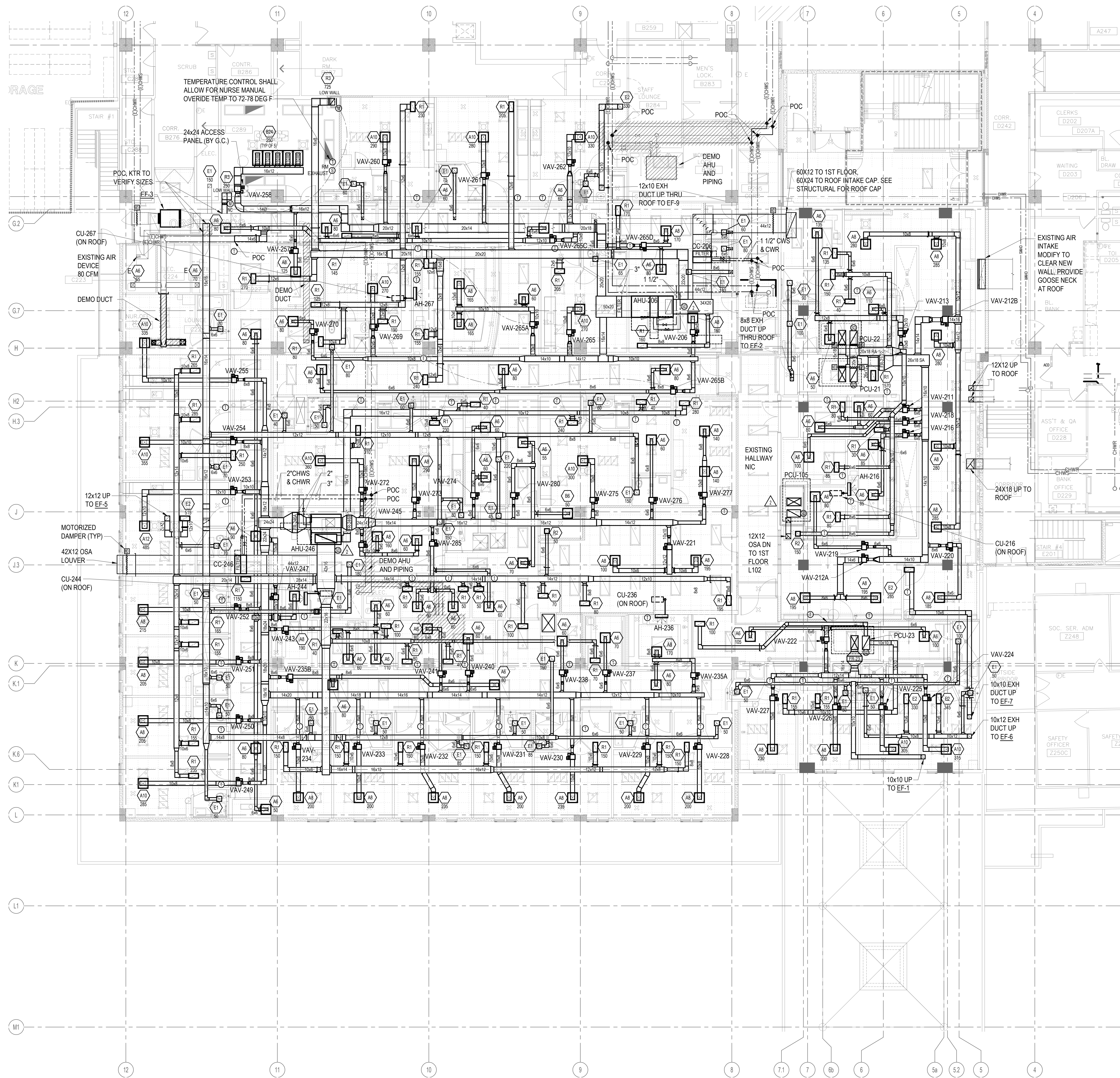
PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL FIRST FLOOR MECHANICAL PLAN

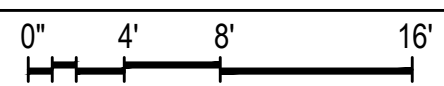
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	144052.02	
	MRO	
	WPL	

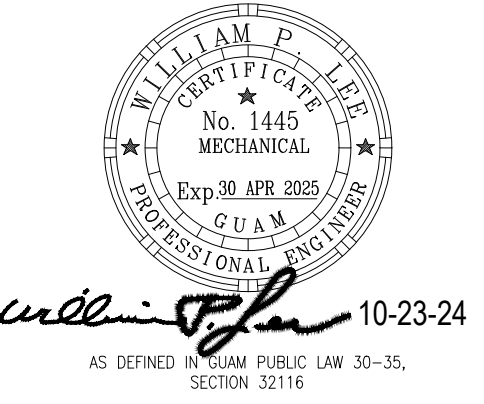
DWG NO: **M101**



1 PARTIAL SECOND FLOOR MECHANICAL PLAN
M201 1/8" = 1'-0"



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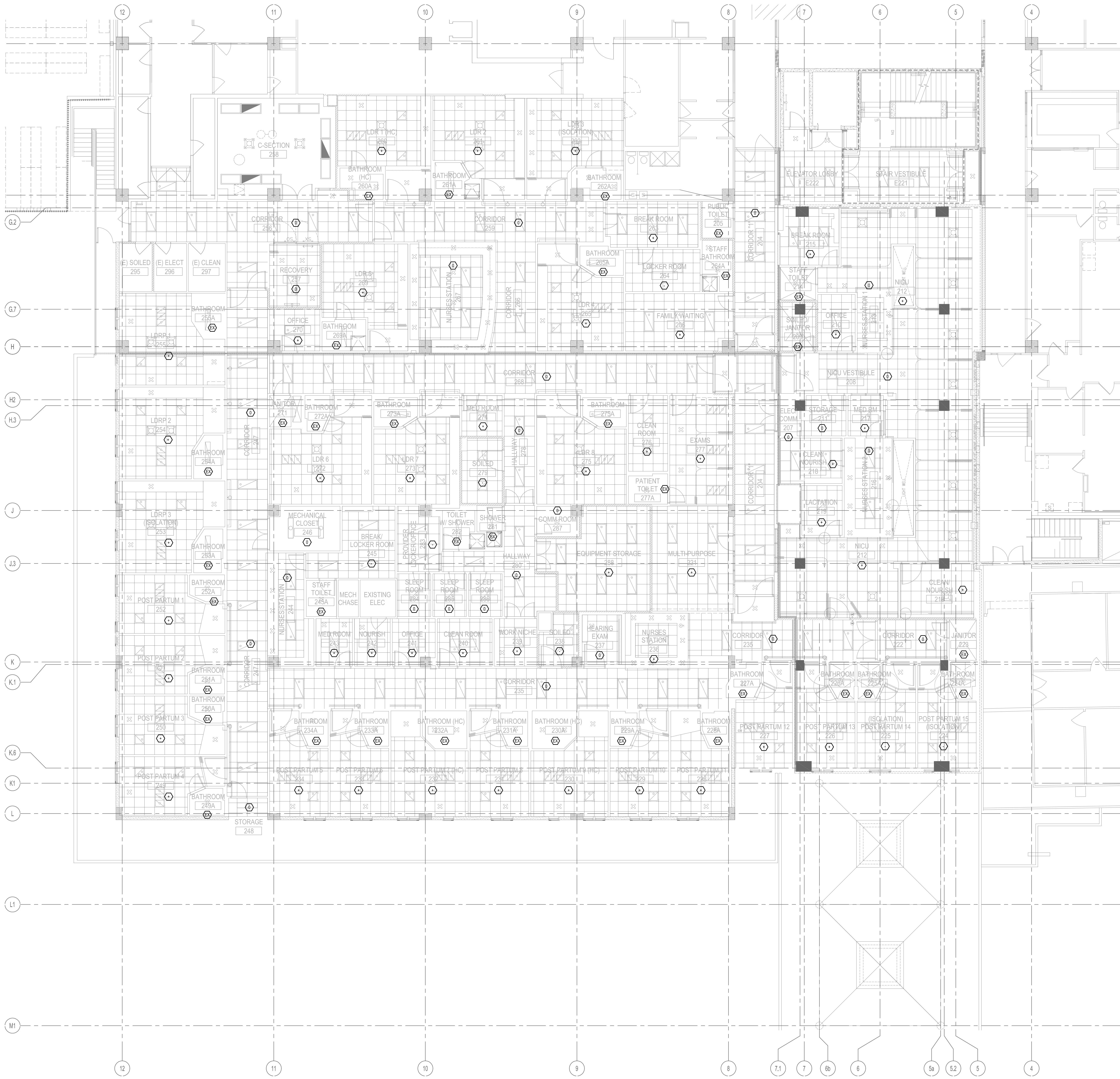
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 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR MECHANICAL PLAN

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 OWNER: _____
 SHEET TITLE: _____

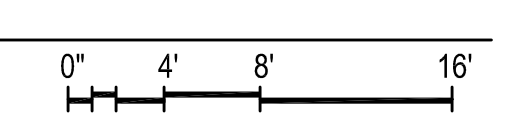
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CHECKED BY	: WPL	
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DWG NO: M201

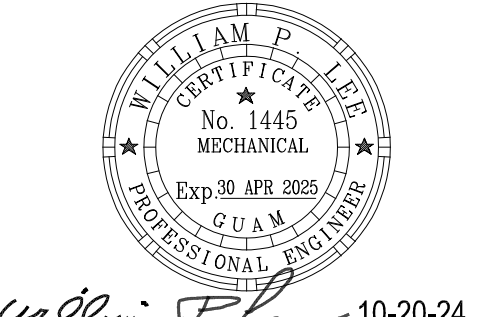


- LEGEND**
- ⊕ SUPPLY AIR "HIGHLY" MORE THAN EXHAUST AIR, RETURN AIR, OR BOTH. "HIGHLY" POSITIVE PRESSURE DIFFERENTIAL RELATIVE TO ADJACENT SPACE.
 - ⊕ SUPPLY AIR MORE THAN EXHAUST AIR, RETURN AIR, OR BOTH. POSITIVE PRESSURE DIFFERENTIAL RELATIVE TO ADJACENT SPACE.
 - ⊖ SUPPLY AIR EQUAL TO EXHAUST AIR, RETURN AIR, OR BOTH. NEUTRAL PRESSURE DIFFERENTIAL RELATIVE TO ADJACENT SPACE.
 - ⊖ SUPPLY AIR LESS THAN EXHAUST AIR, RETURN AIR, OR BOTH. NEGATIVE PRESSURE DIFFERENTIAL RELATIVE TO ADJACENT SPACE.
 - ⊖ SUPPLY AIR "HIGHLY" LESS THAN EXHAUST AIR, RETURN AIR, OR BOTH. "HIGHLY" NEGATIVE PRESSURE DIFFERENTIAL RELATIVE TO ADJACENT SPACE.
 - ⊖ ROOM EXHAUSTED ONLY.

1 PARTIAL SECOND FLOOR RELATIVE PRESSURIZATION PLAN
 M201A 1/8" = 1'-0"



I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.



10-20-24
 AS DEFINED BY THE MECHANICAL CODE, SECTION 2016.

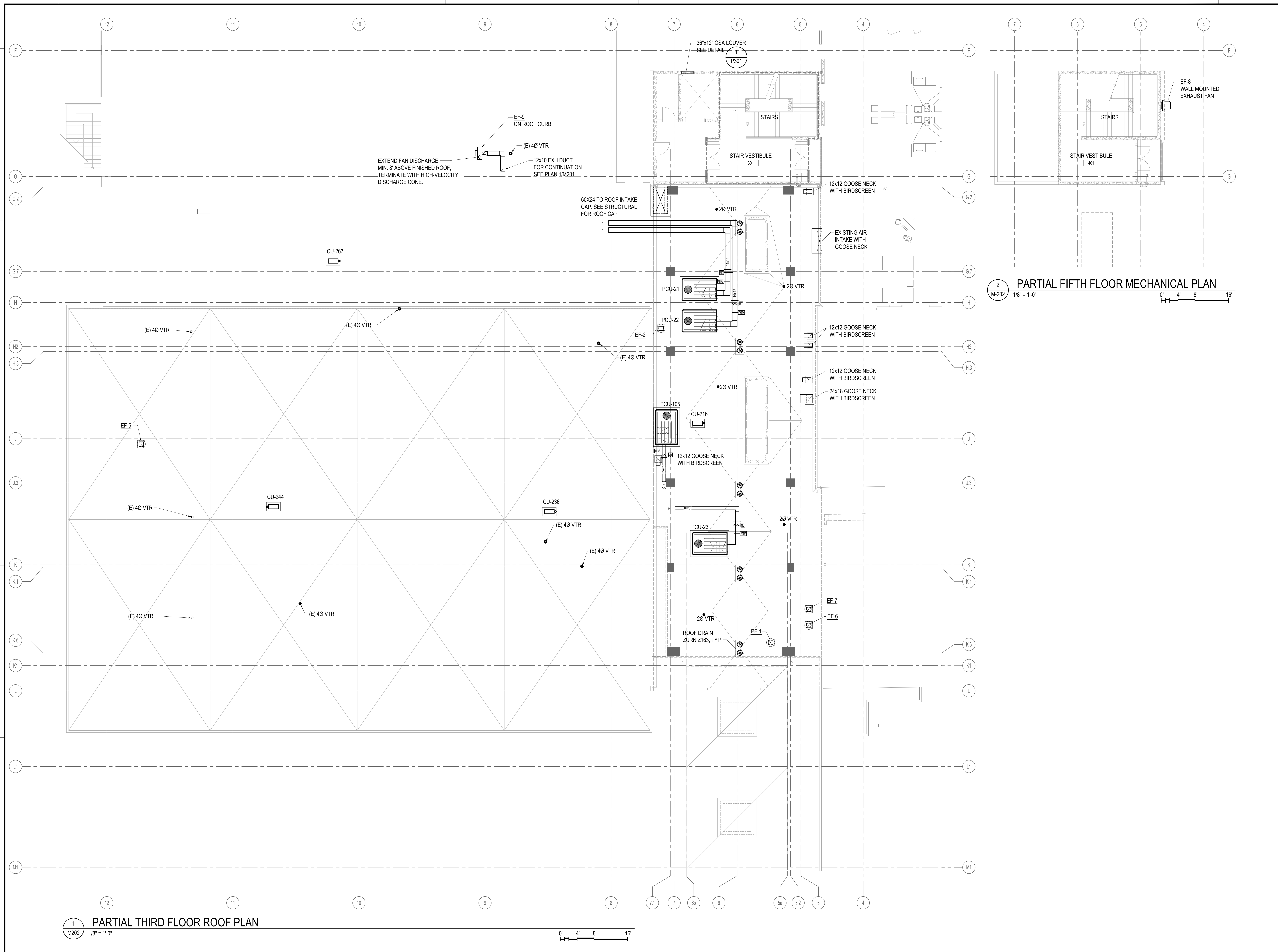
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 GUAM MEMORIAL HOSPITAL AUTHORITY
 PARTIAL SECOND FLOOR RELATIVE PRESSURIZATION PLAN

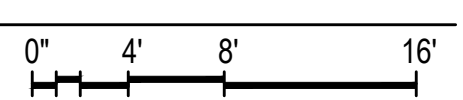
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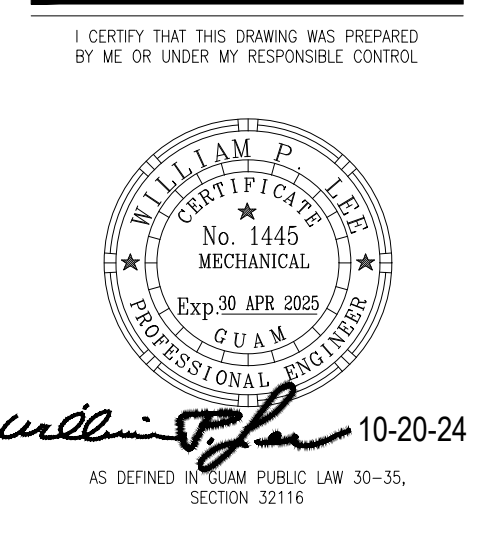
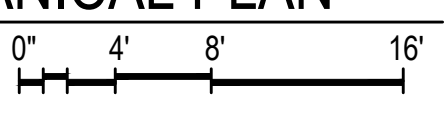
DWG NO: **M201A**



1 PARTIAL THIRD FLOOR ROOF PLAN
M202 1/8" = 1'-0"



2 PARTIAL FIFTH FLOOR MECHANICAL PLAN
M-202 1/8" = 1'-0"



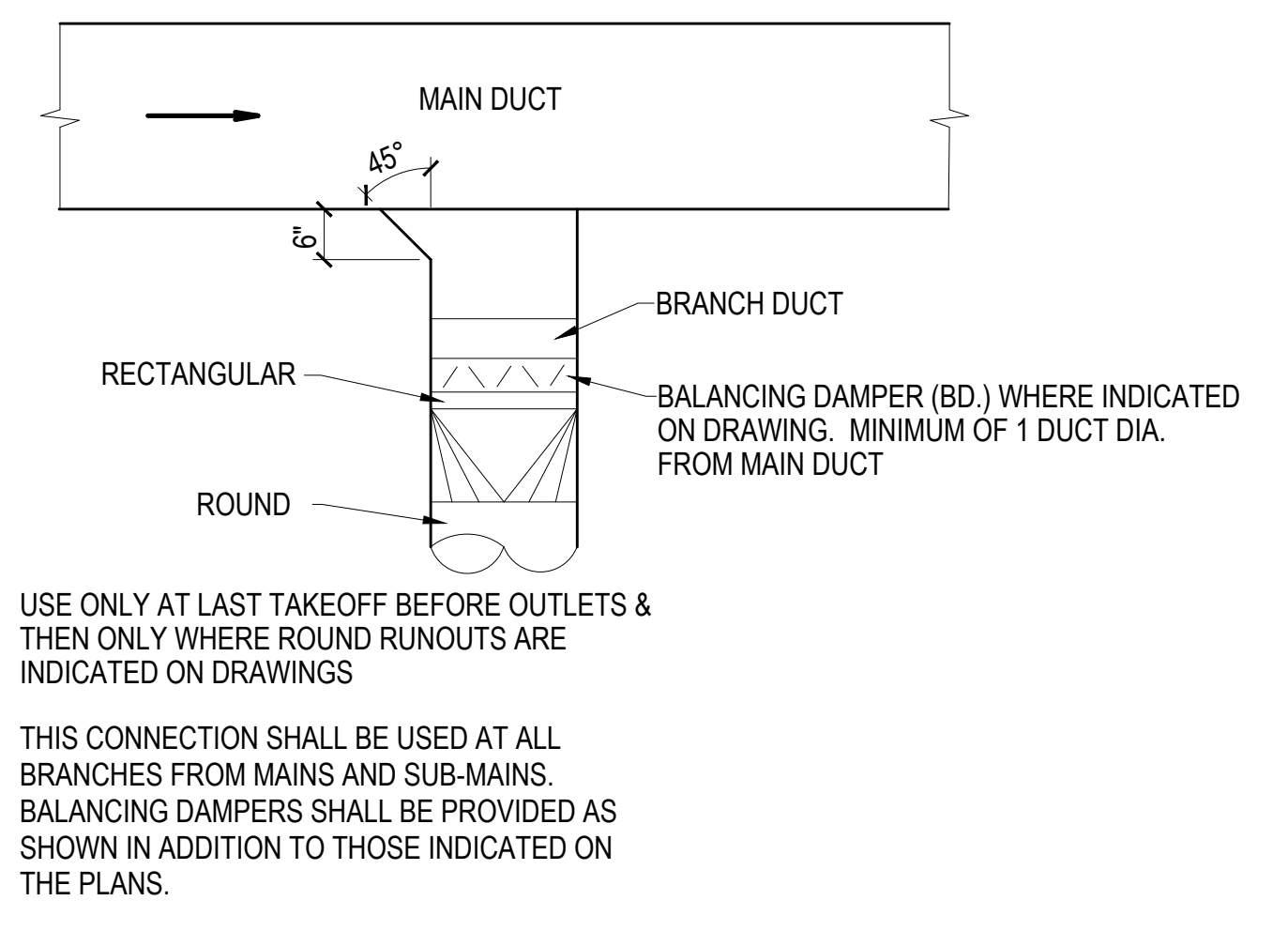
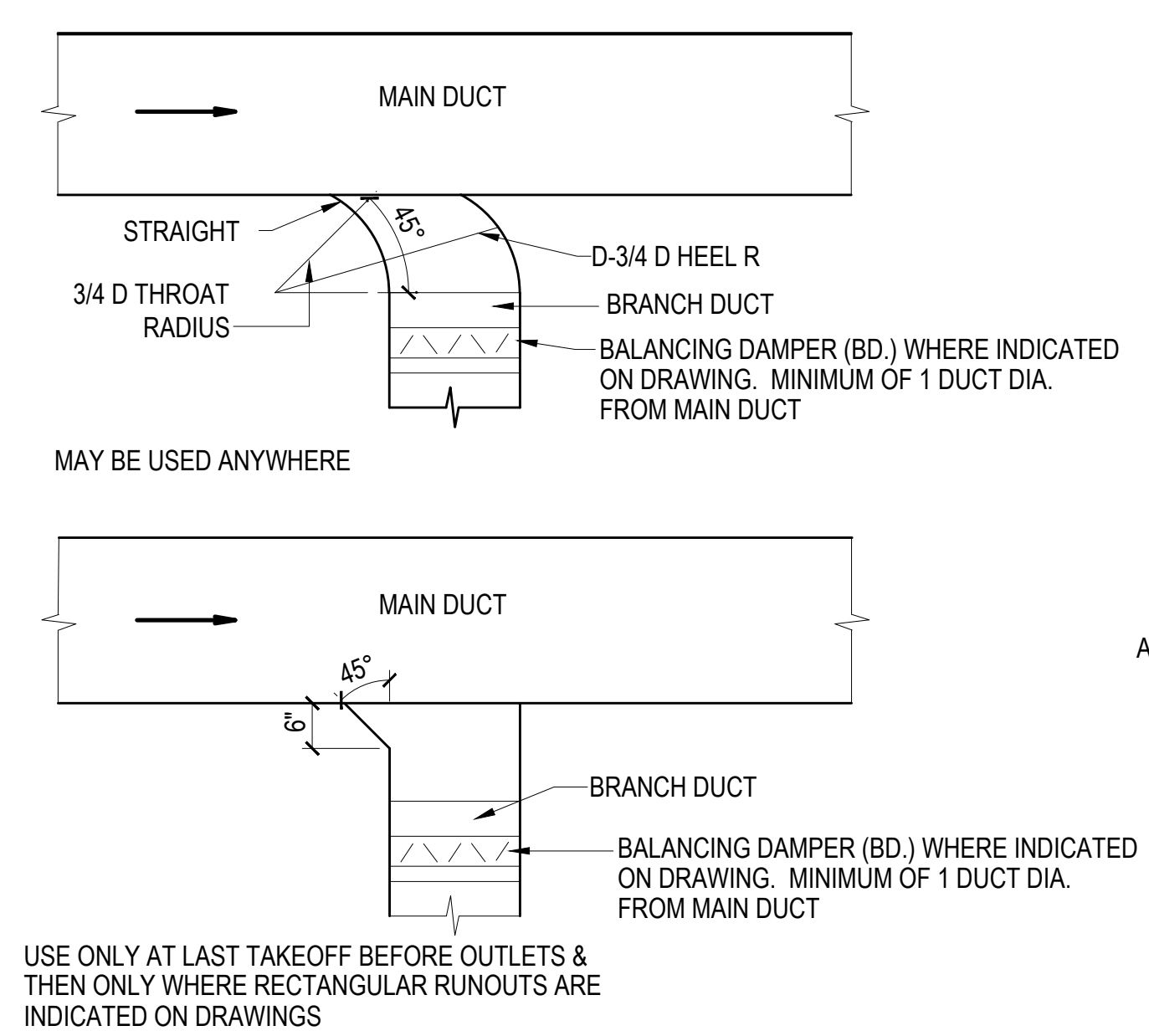
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 PARTIAL THIRD FLOOR ROOF PLAN

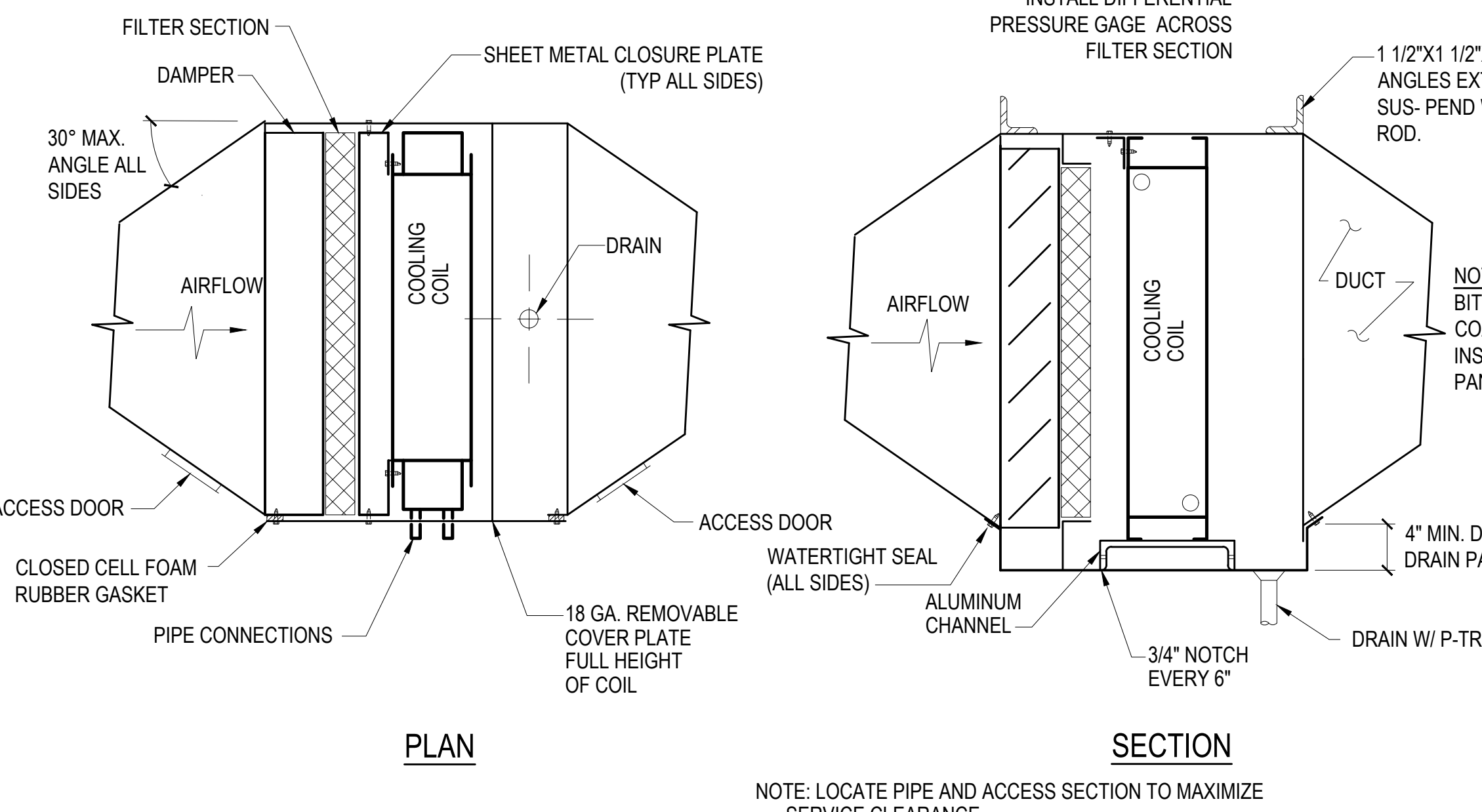
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MARK	DATE	DESCRIPTION

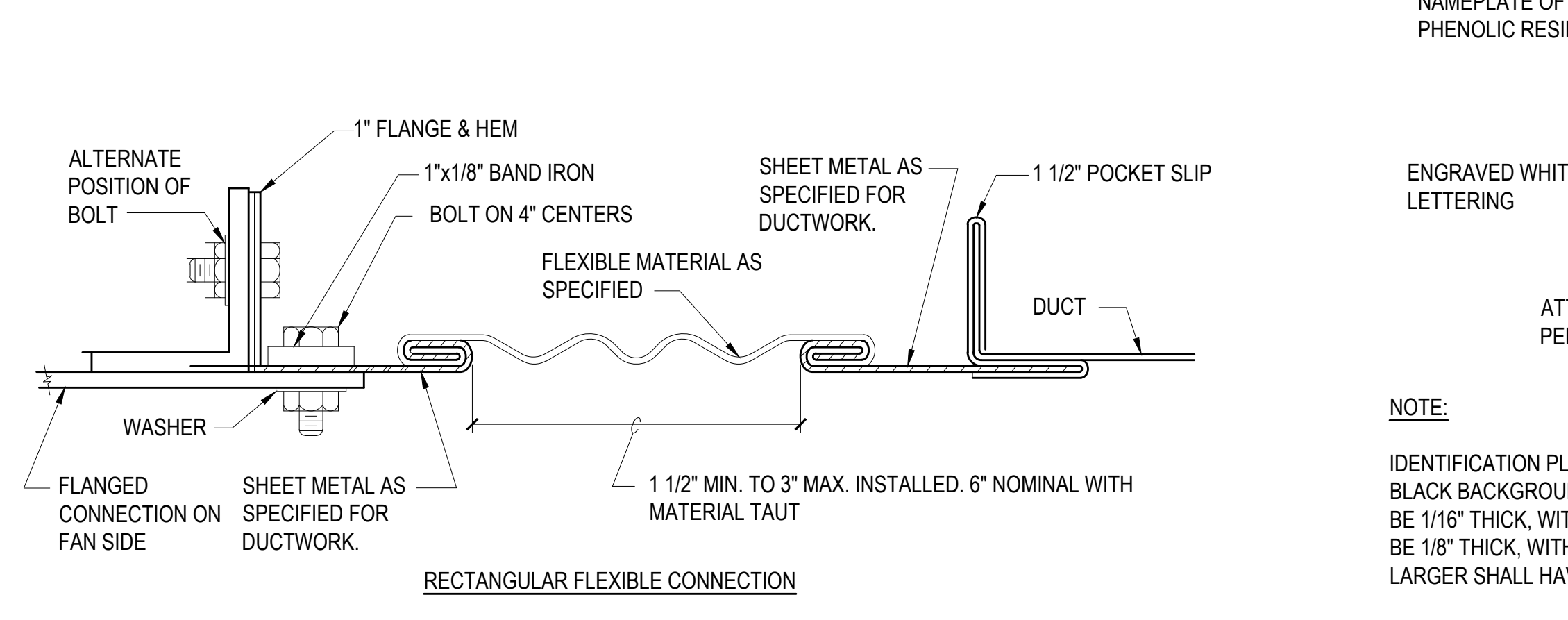
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 PROJECT NO : 144052.02
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 CHECKED BY : WPL
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 DWG NO: M202



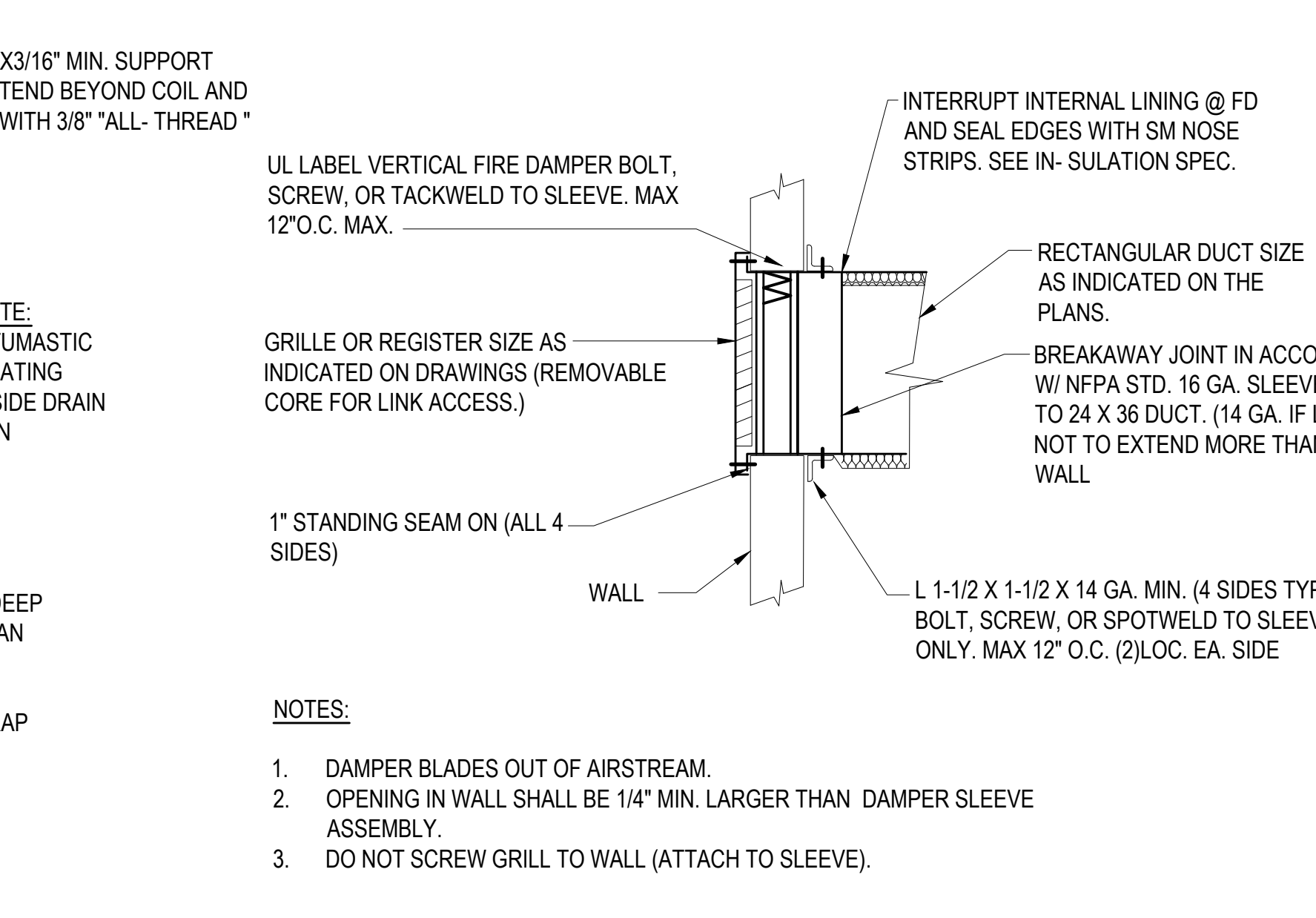
1 BRANCH CONNECTION DETAILS
 M300 NOT TO SCALE



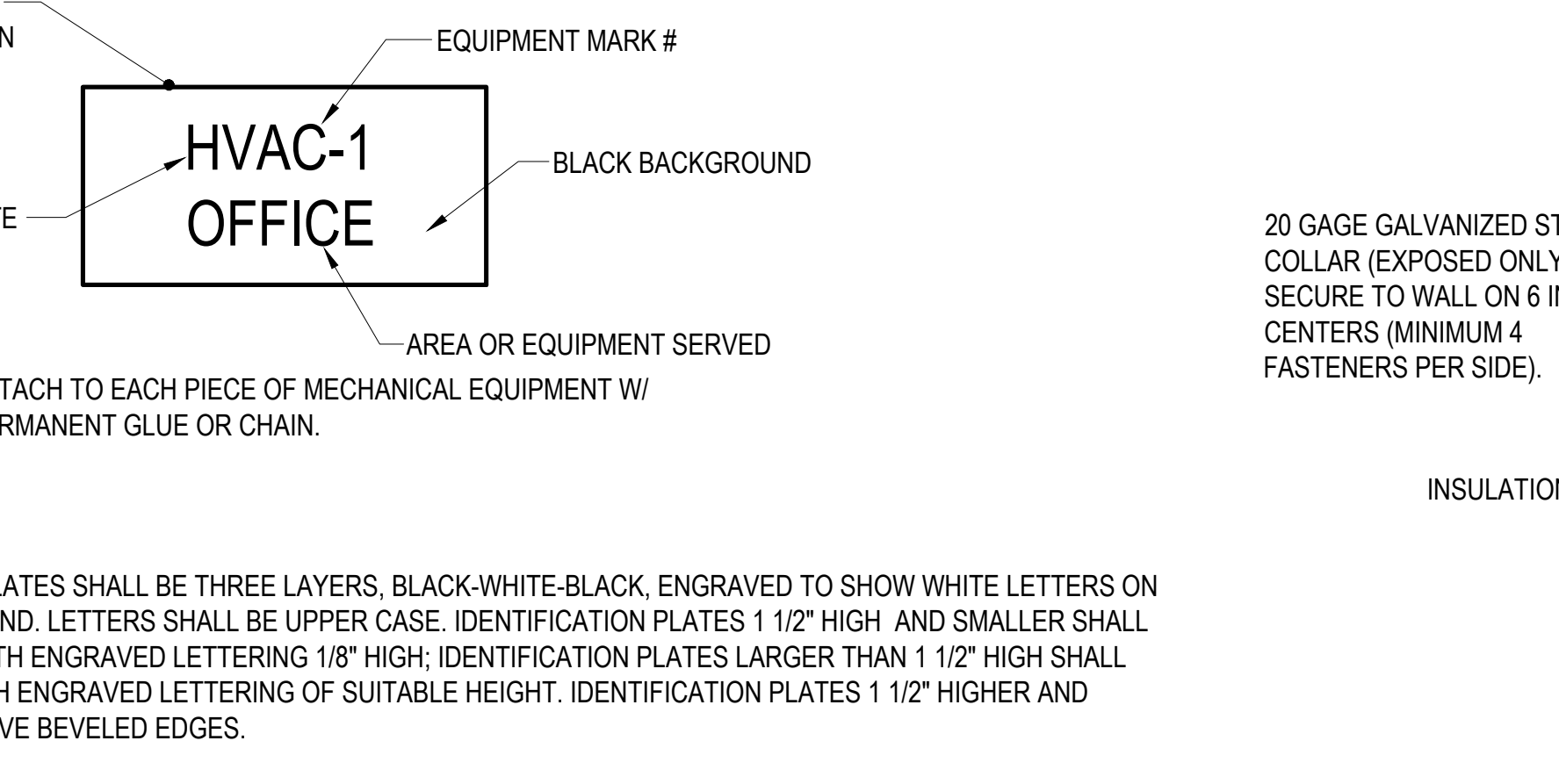
2 DUCT MOUNTED PRE-COOLING COIL DC-1 / DC-2
 M300 NOT TO SCALE



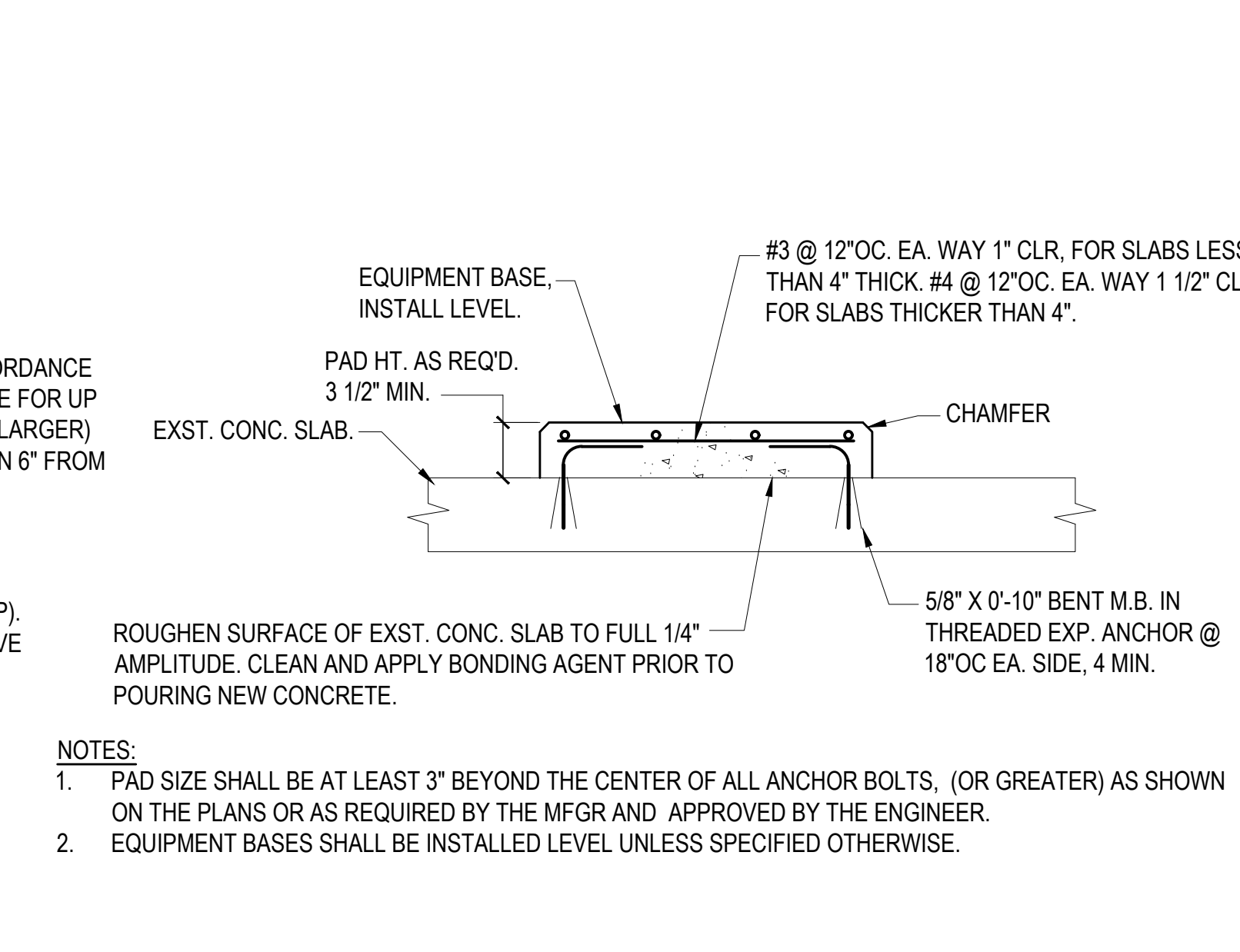
5 AHU DUCT CONNECTION DETAIL
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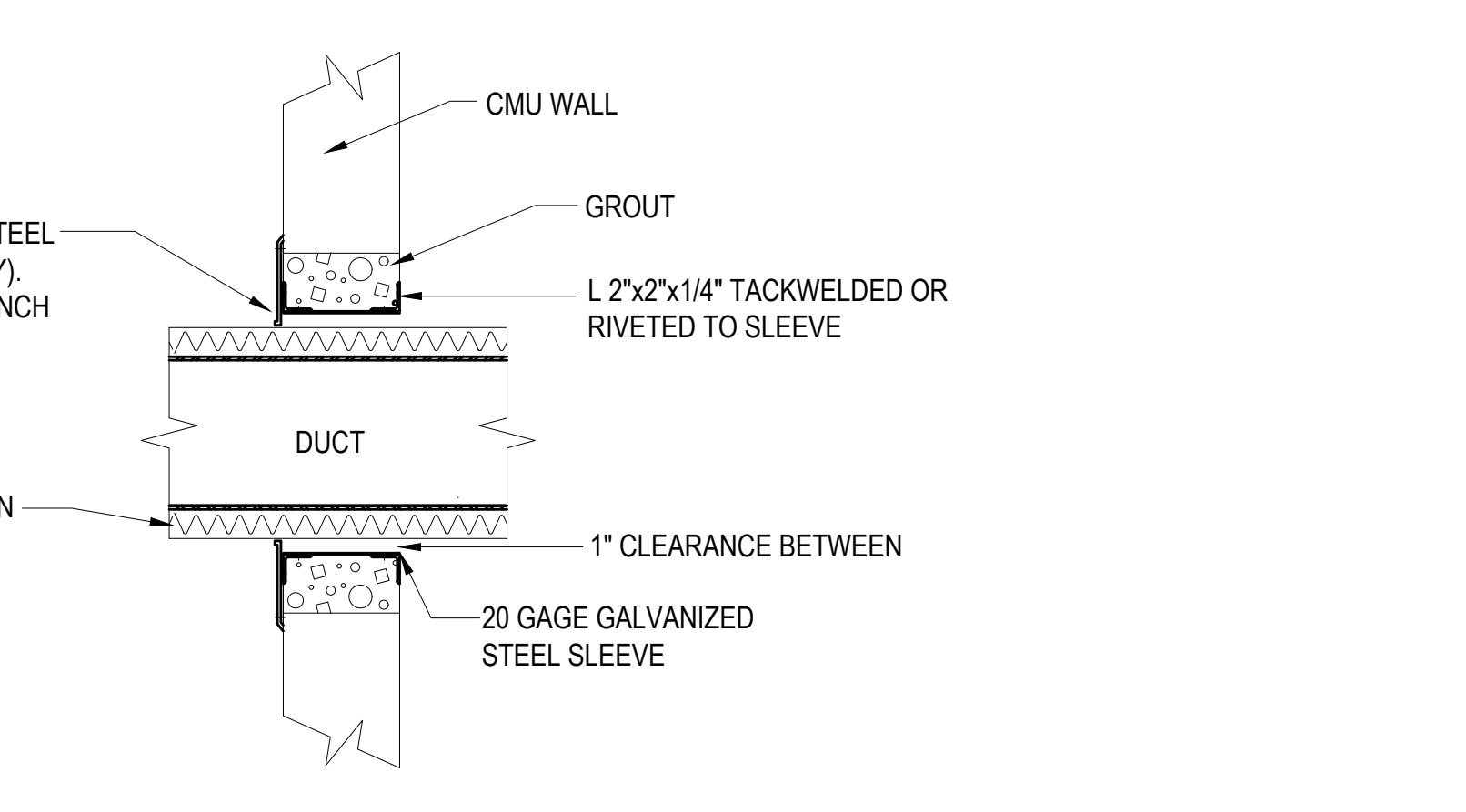
3 FIRE DAMPER DETAIL
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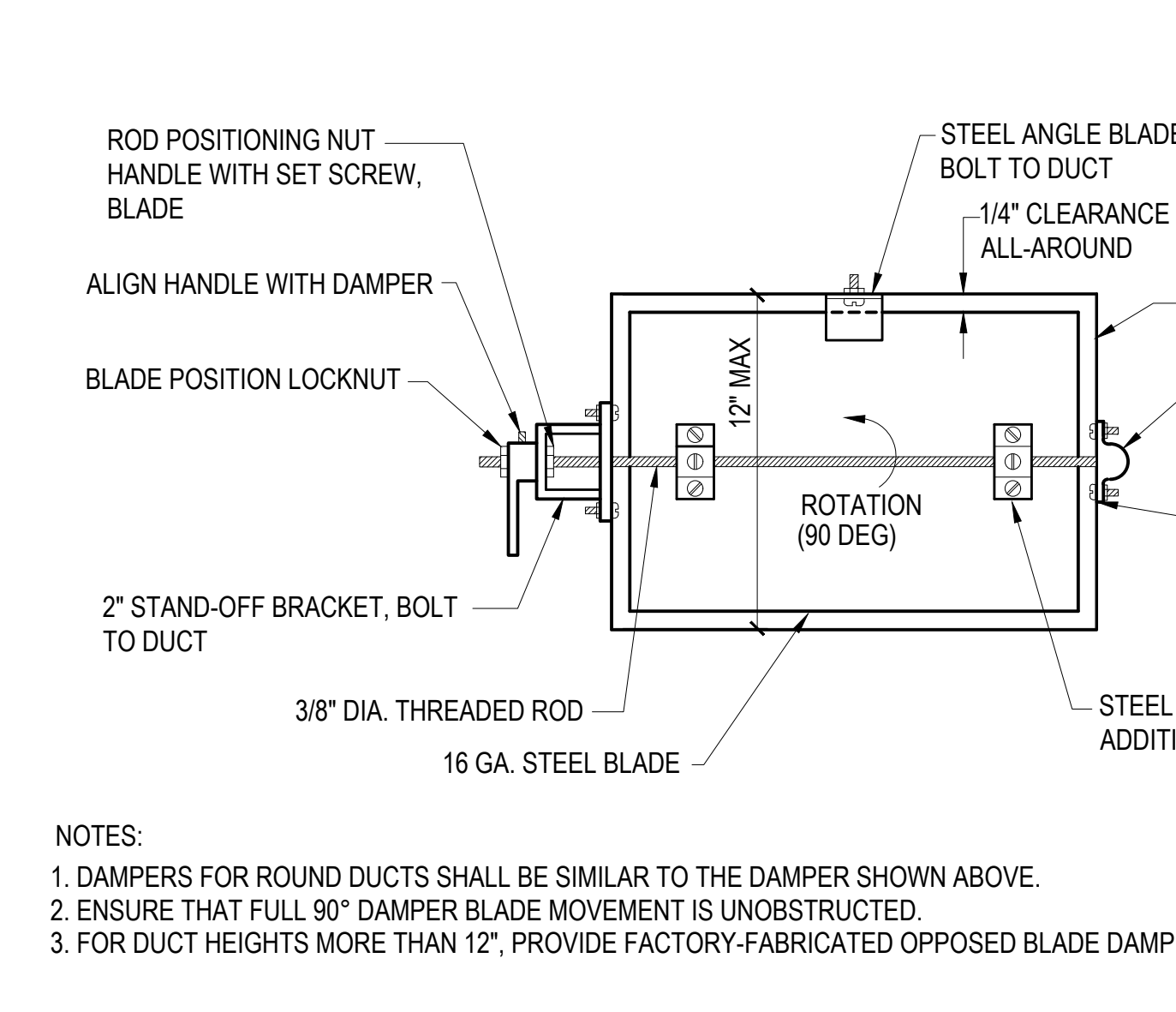
6 EQUIPMENT NAME PLATE DETAIL
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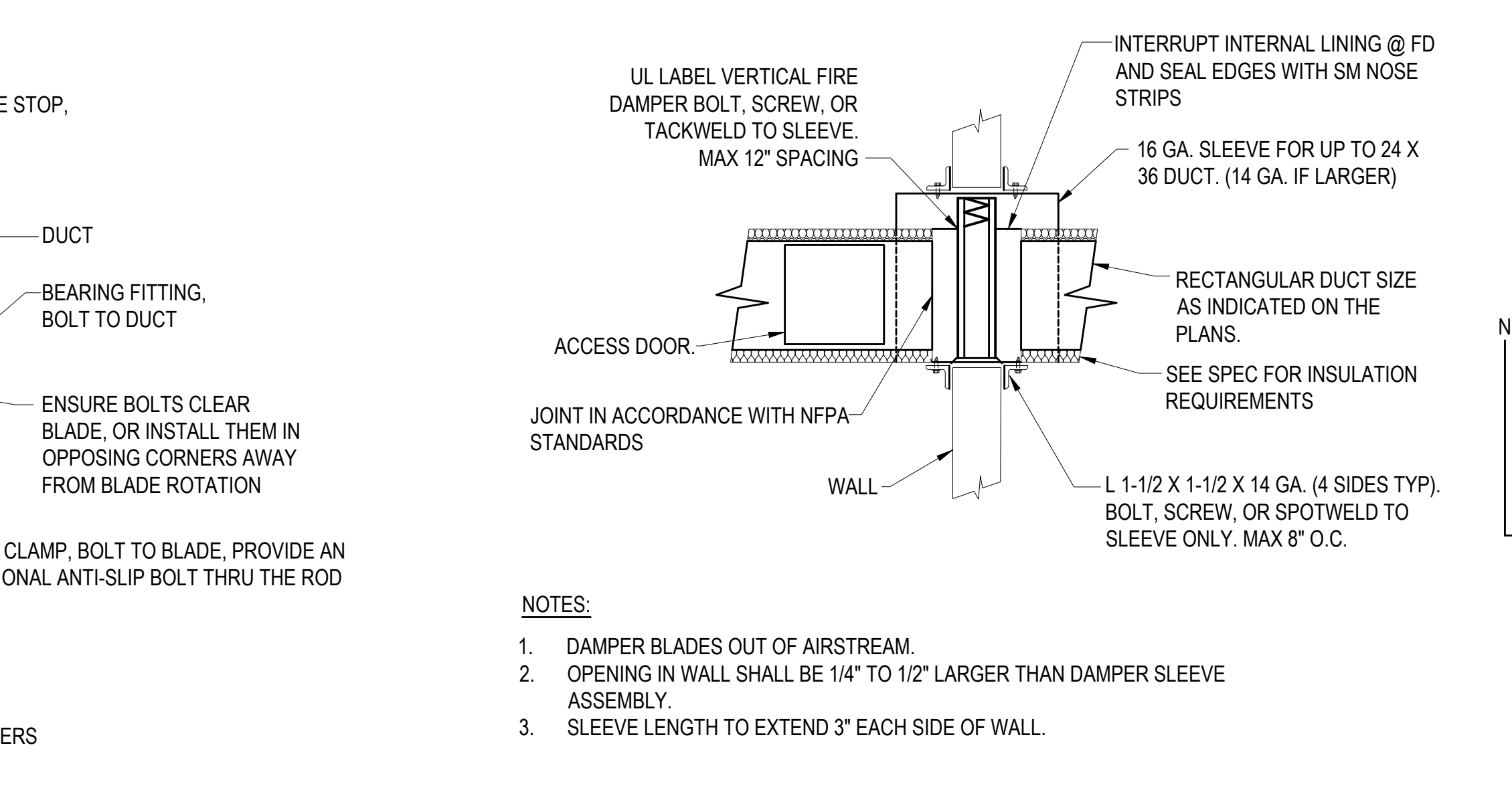
4 EQUIPMENT BASE DETAIL
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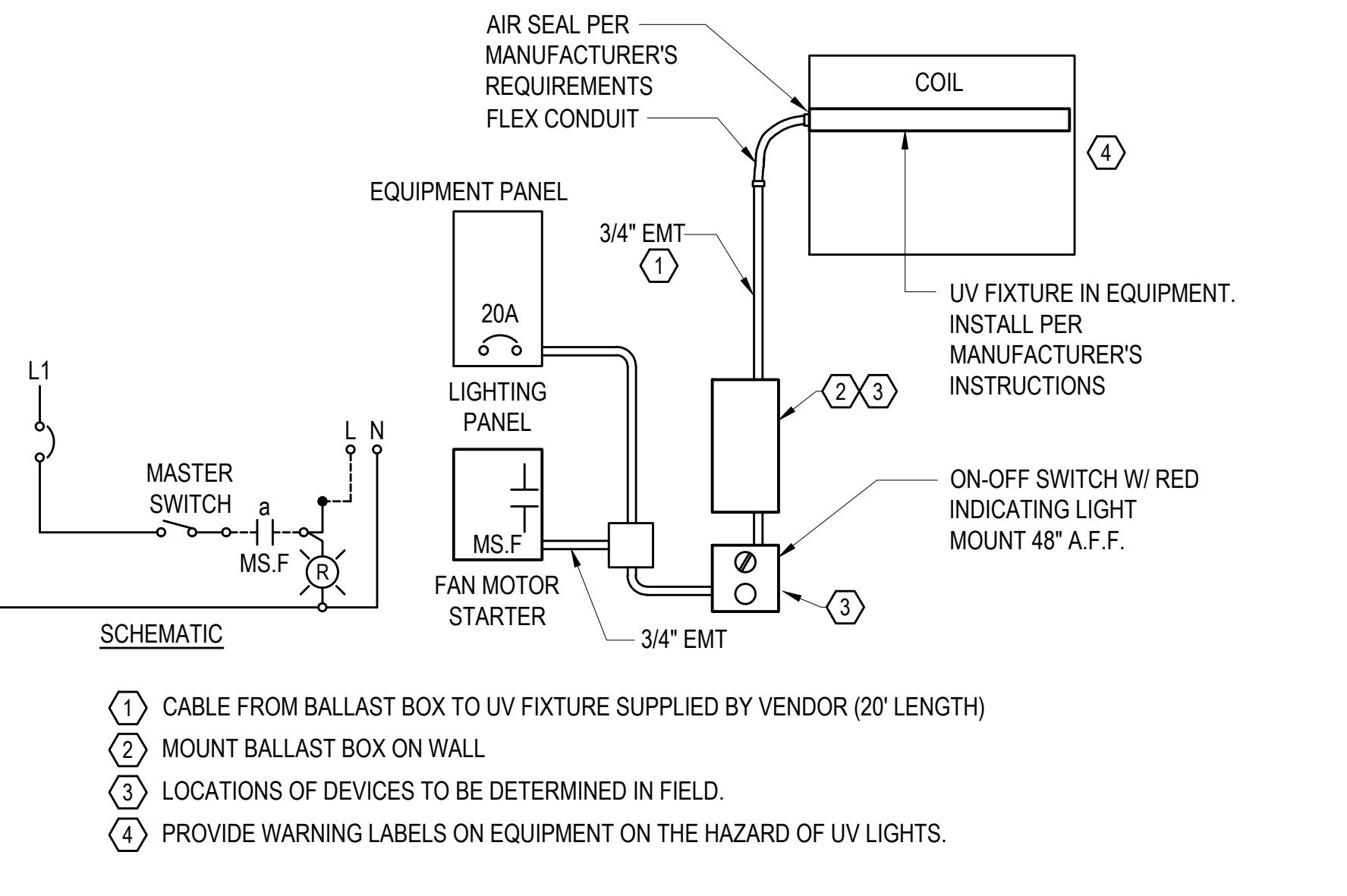
7 DUCT THRU FIRE RATED WALL DETAIL
 M300 NOT TO SCALE



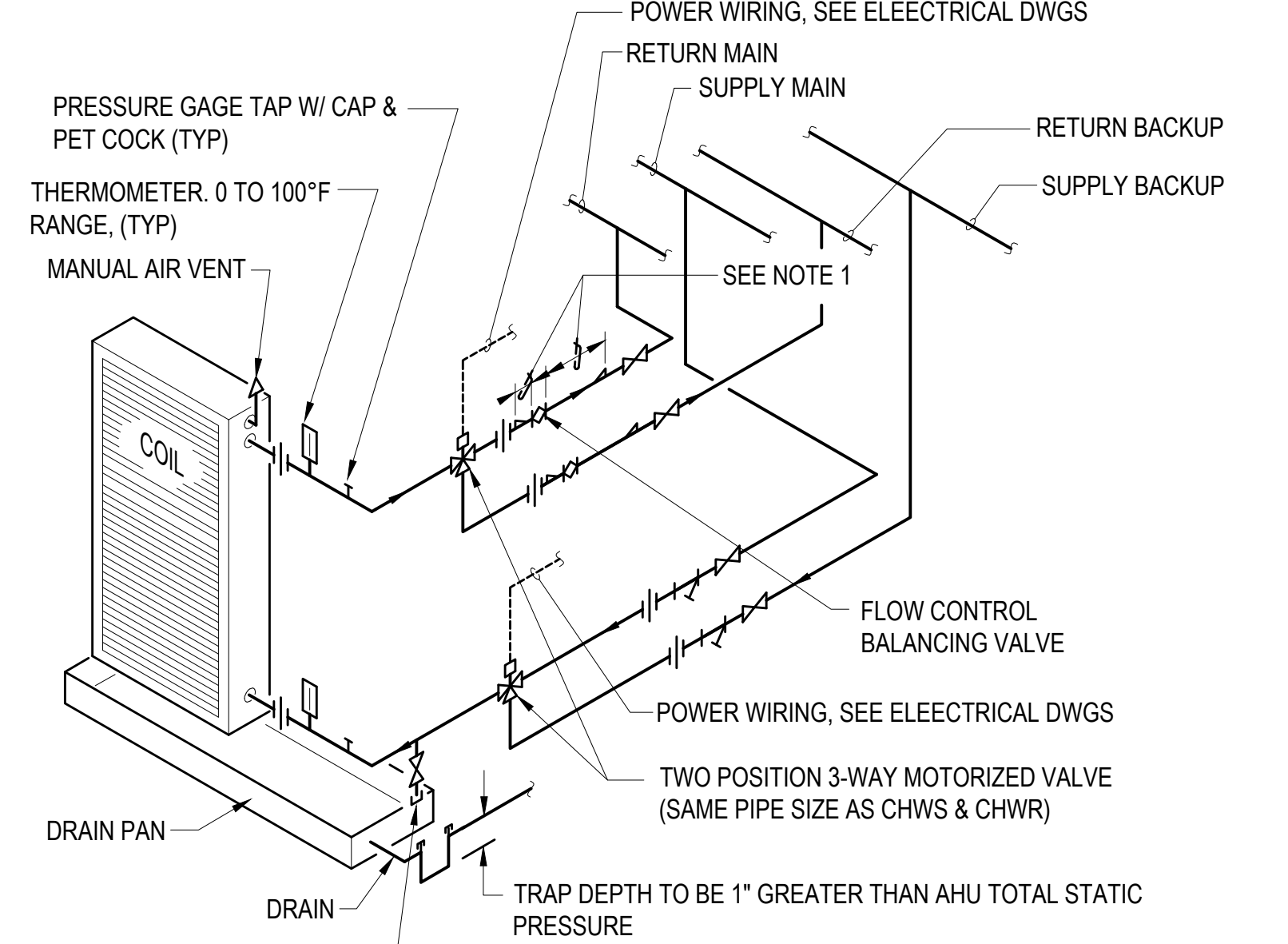
8 MANUAL DAMPER DETAIL
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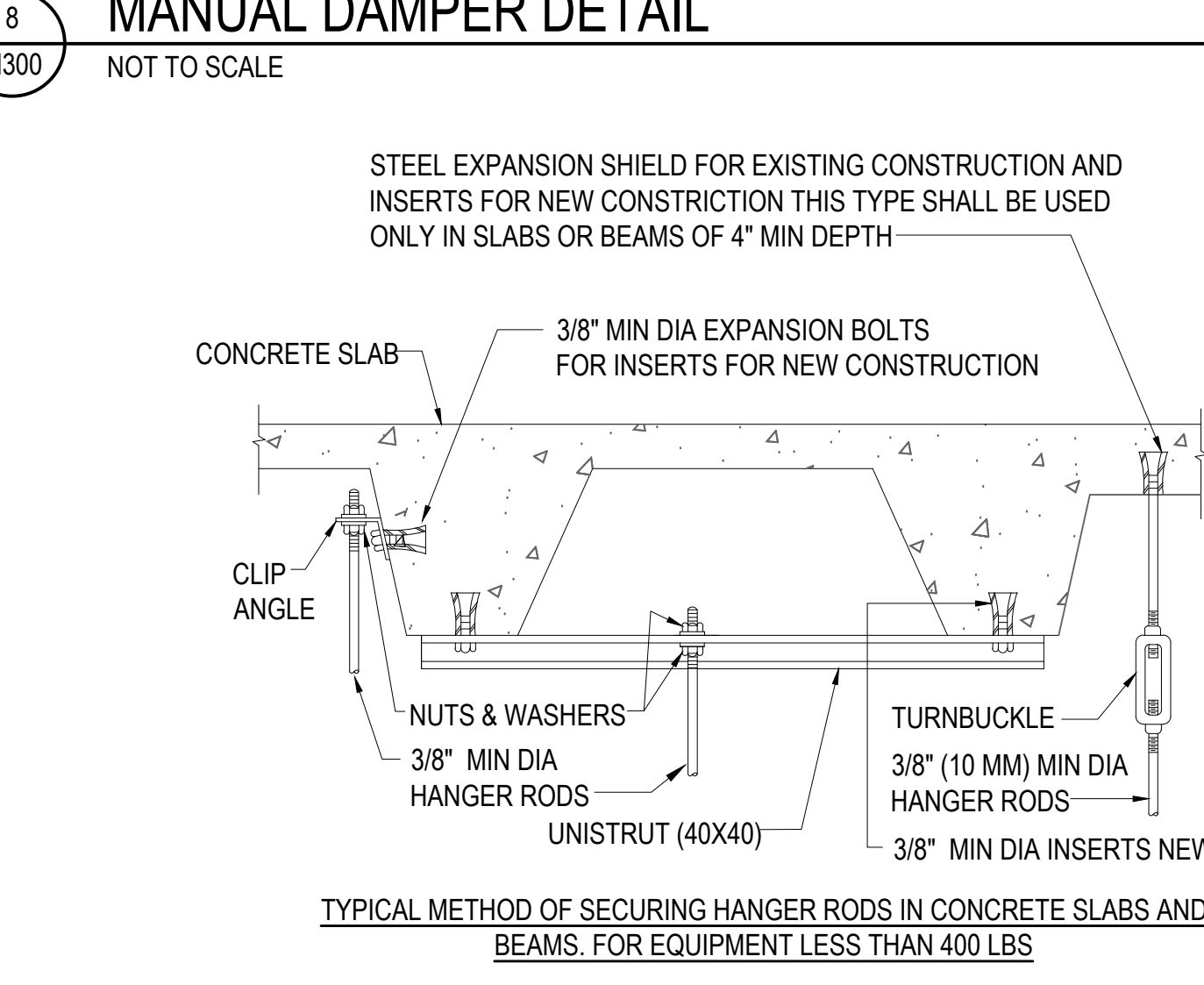
9 FIRE DAMPER DETAIL
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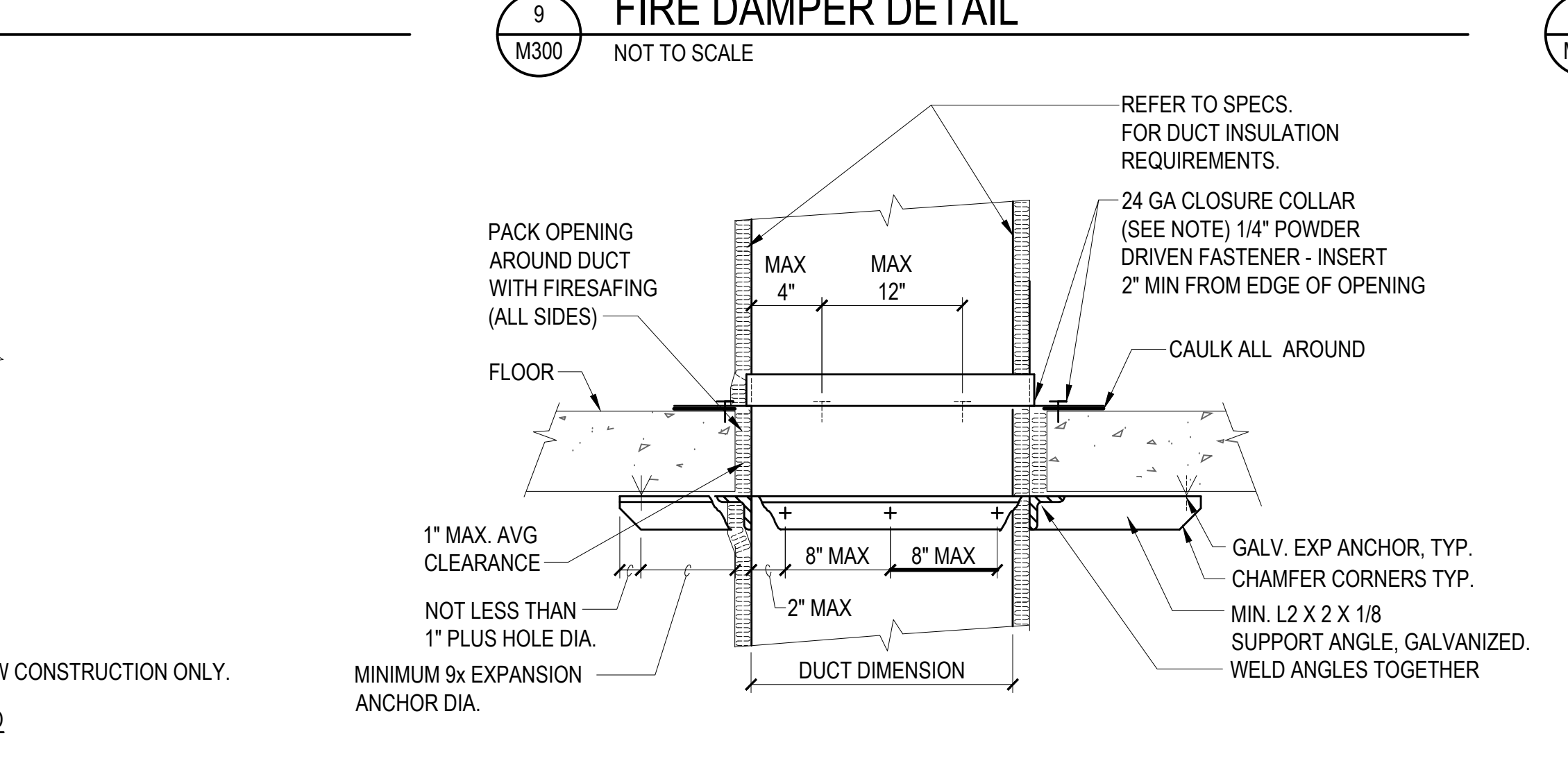
10 UV DISINFECTION UNIT DETAIL
 M300 NOT TO SCALE



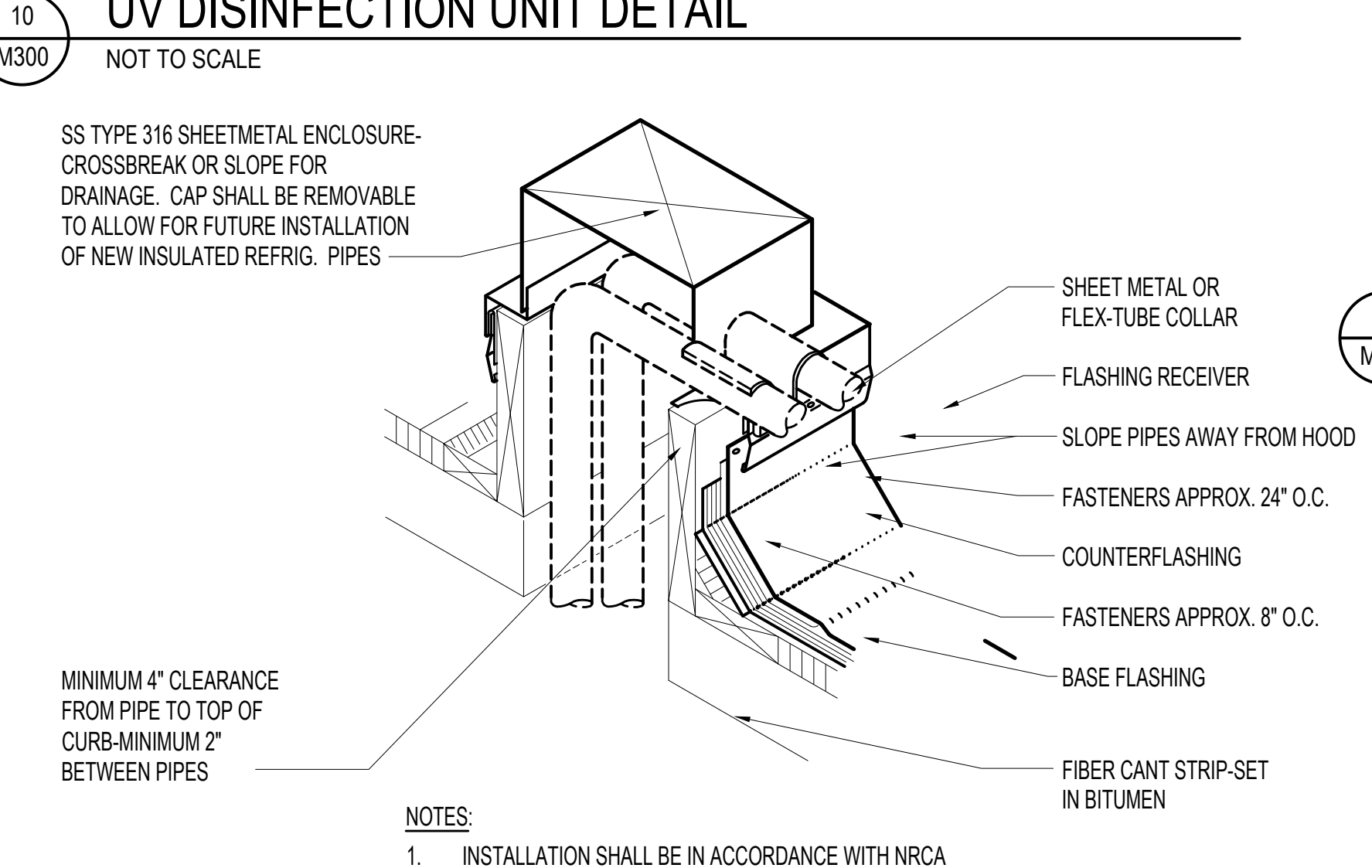
11 CHILLED WATER COIL PIPING DETAIL
 M300 NOT TO SCALE HOSPITAL WITH EMERGENCY BACK-UP SUPPLY APPLICATION



12 HANGER ATTACHMENT DETAIL
 M300 NOT TO SCALE



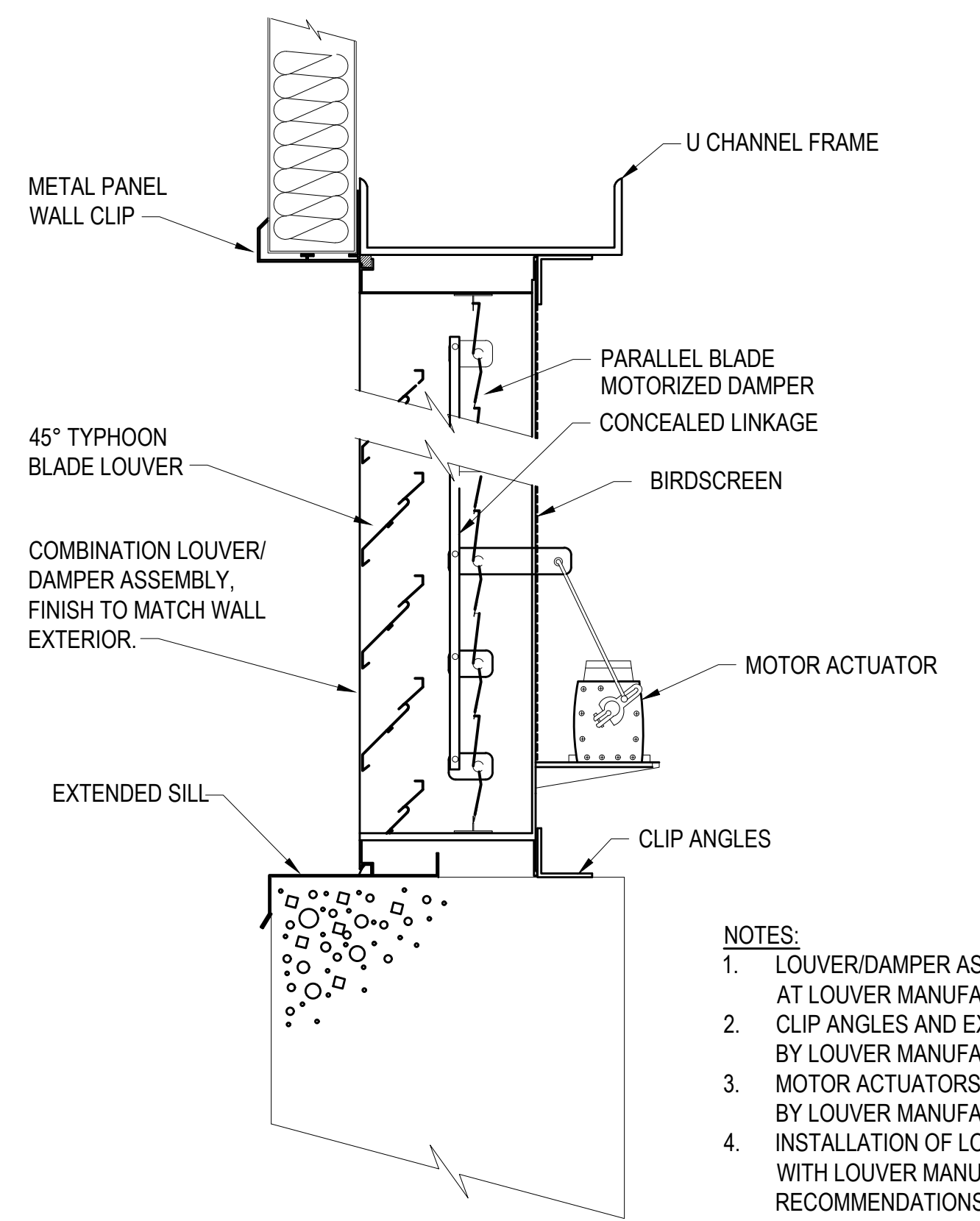
13 RECTANGULAR DUCT FLOOR PENETRATION
 M300 NOT TO SCALE



14 REFRIGERANT PIPING THRU ROOF DETAIL
 M300 NOT TO SCALE

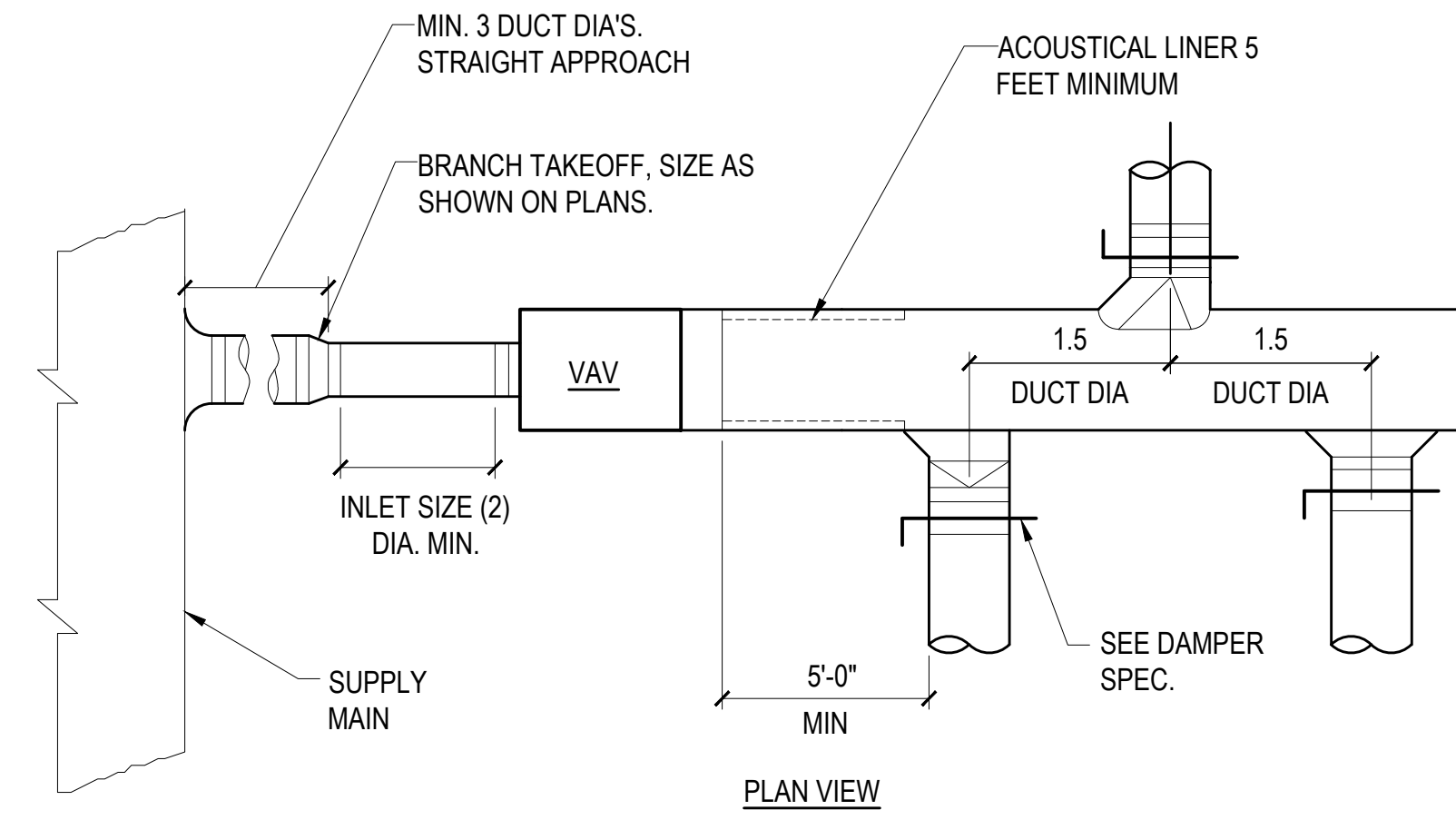
MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 MECHANICAL DETAILS

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DATE: 2024.10.25		
PROJECT NO: 144052.02		
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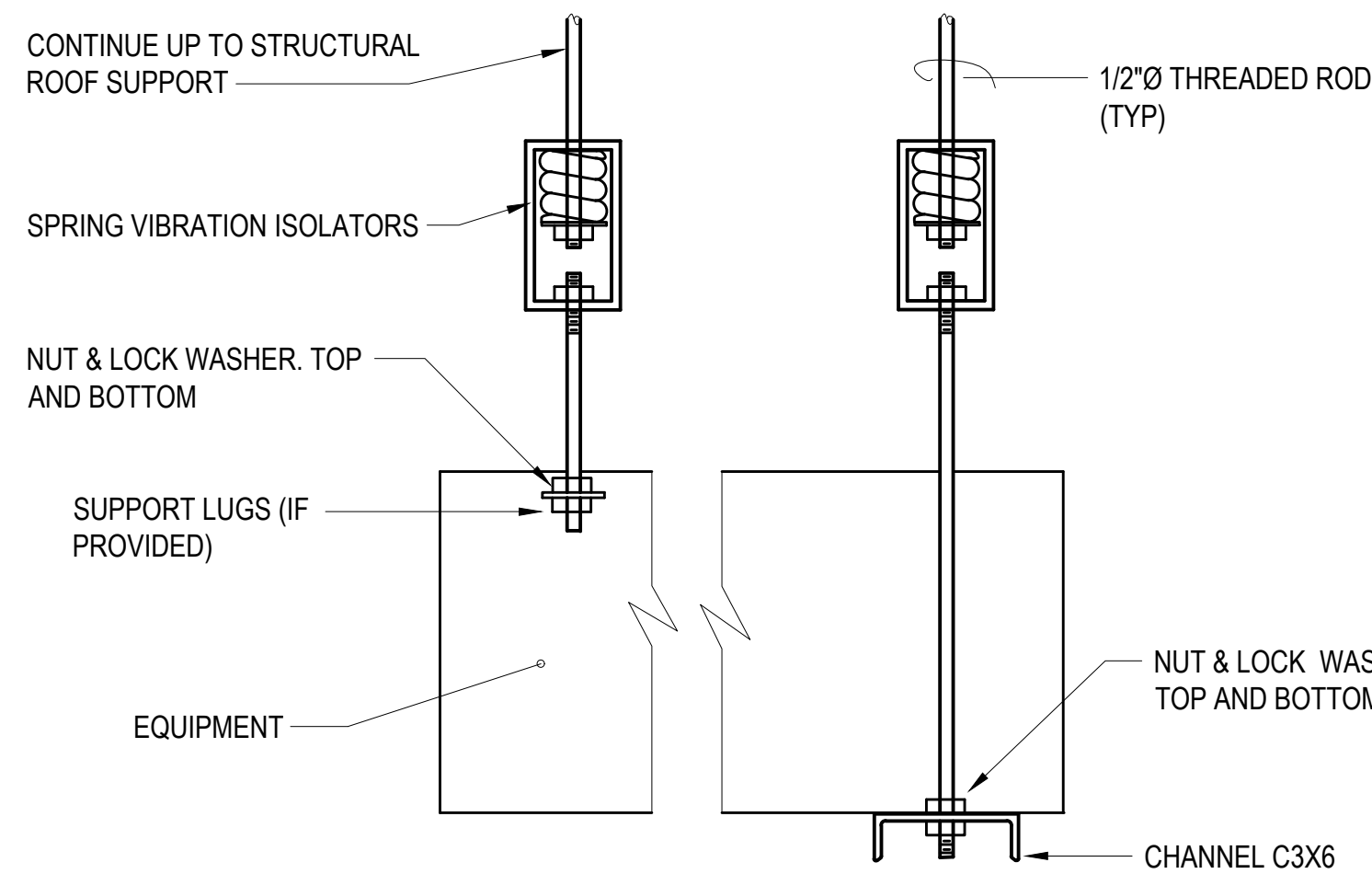


1 OSA LOUVER DETAIL
M301 NOT TO SCALE

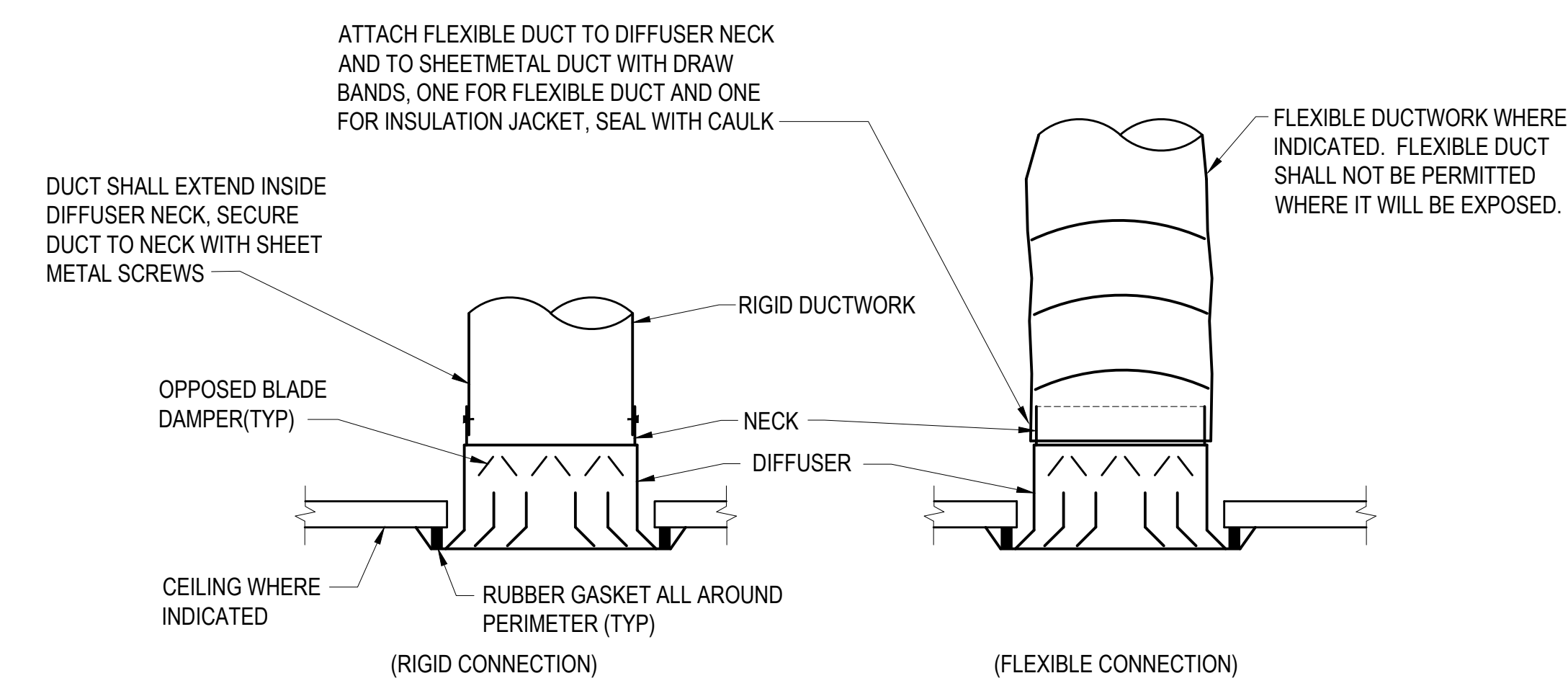
- NOTES:
 1. LOUVER/DAMPER ASSEMBLIES TO BE ASSEMBLED AT LOUVER MANUFACTURER FACTORY.
 2. CLIP ANGLES AND EXTENDED SILL TO BE PROVIDED BY LOUVER MANUFACTURER.
 3. MOTOR ACTUATORS TO BE SIZED AND INSTALLED BY LOUVER MANUFACTURER.
 4. INSTALLATION OF LOUVER TO BE IN ACCORDANCE WITH LOUVER MANUFACTURER'S RECOMMENDATIONS.



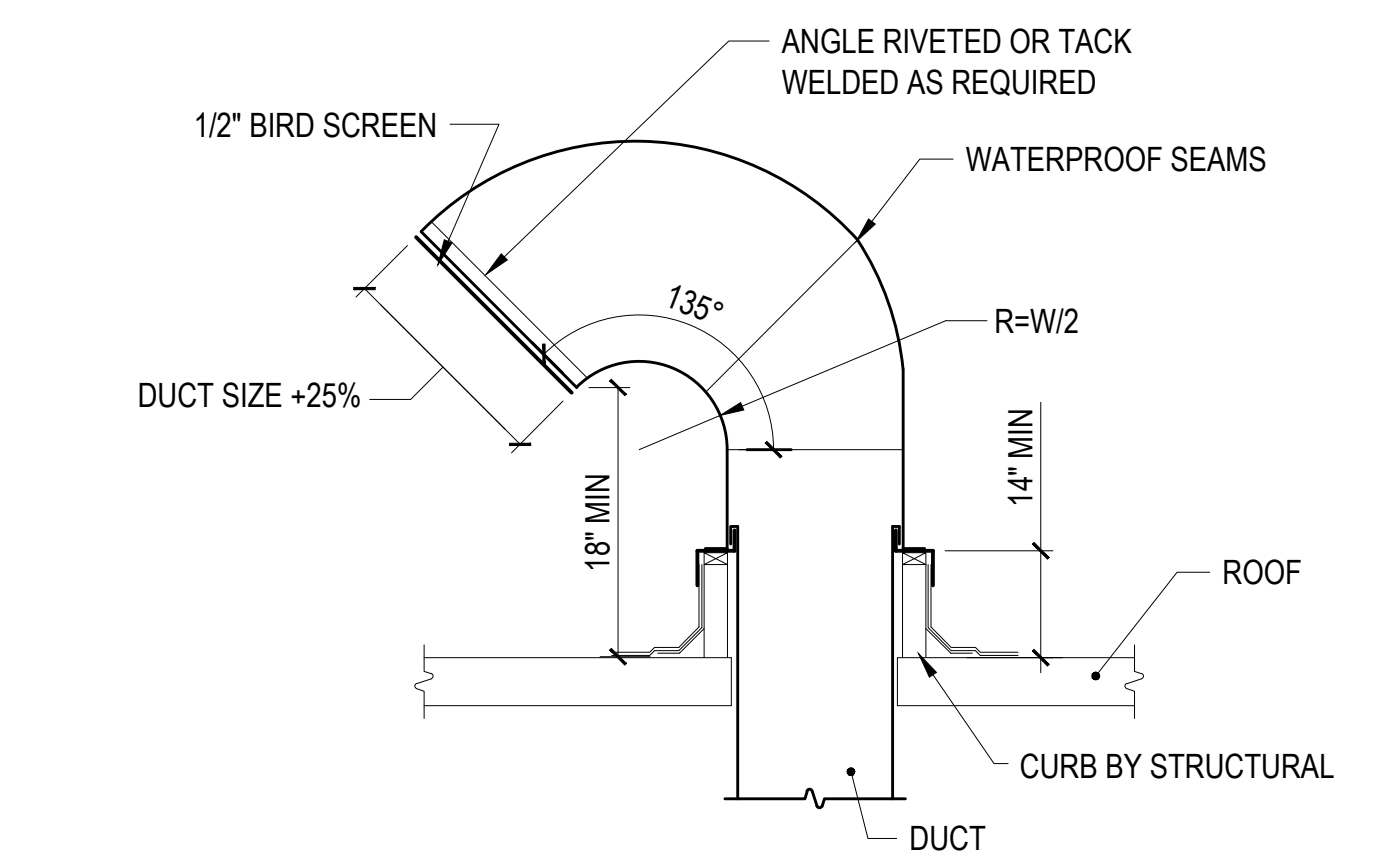
2 VAV INSTALLATION DETAILS
M301 NOT TO SCALE



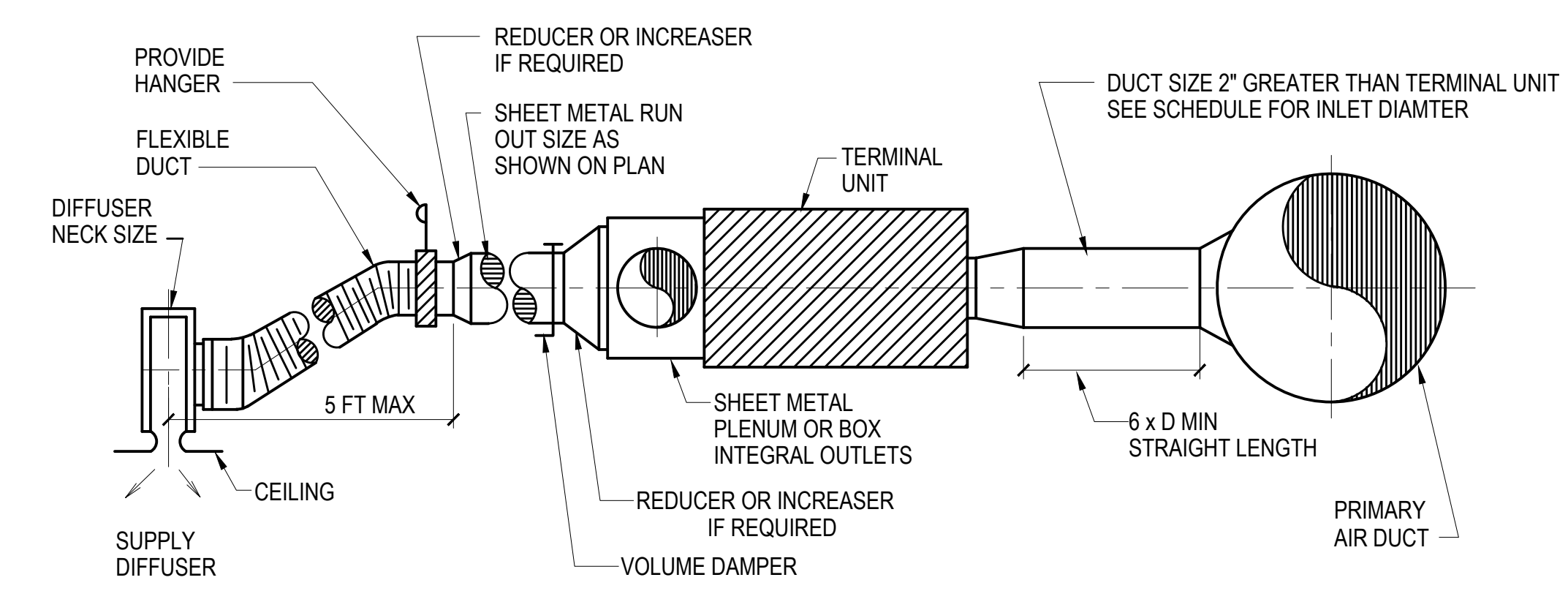
6 SUSPENDED EQUIPMENT SUPPORT DETAIL
M301 NOT TO SCALE



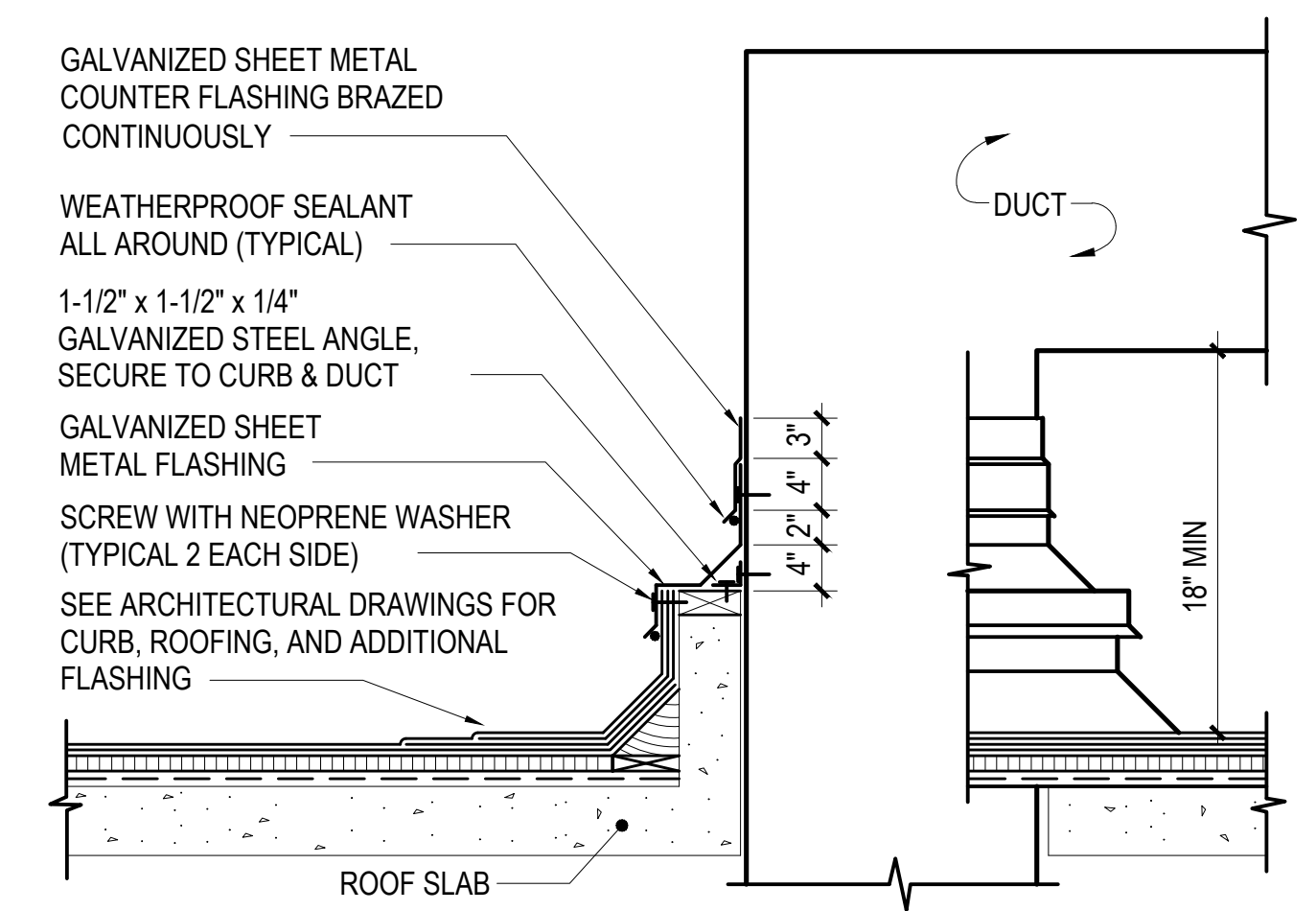
3 DUCT TO DIFFUSER/REGISTER CONNECTION
M301 NOT TO SCALE (TYP. FOR ALL DIFFUSER/REGISTERS)



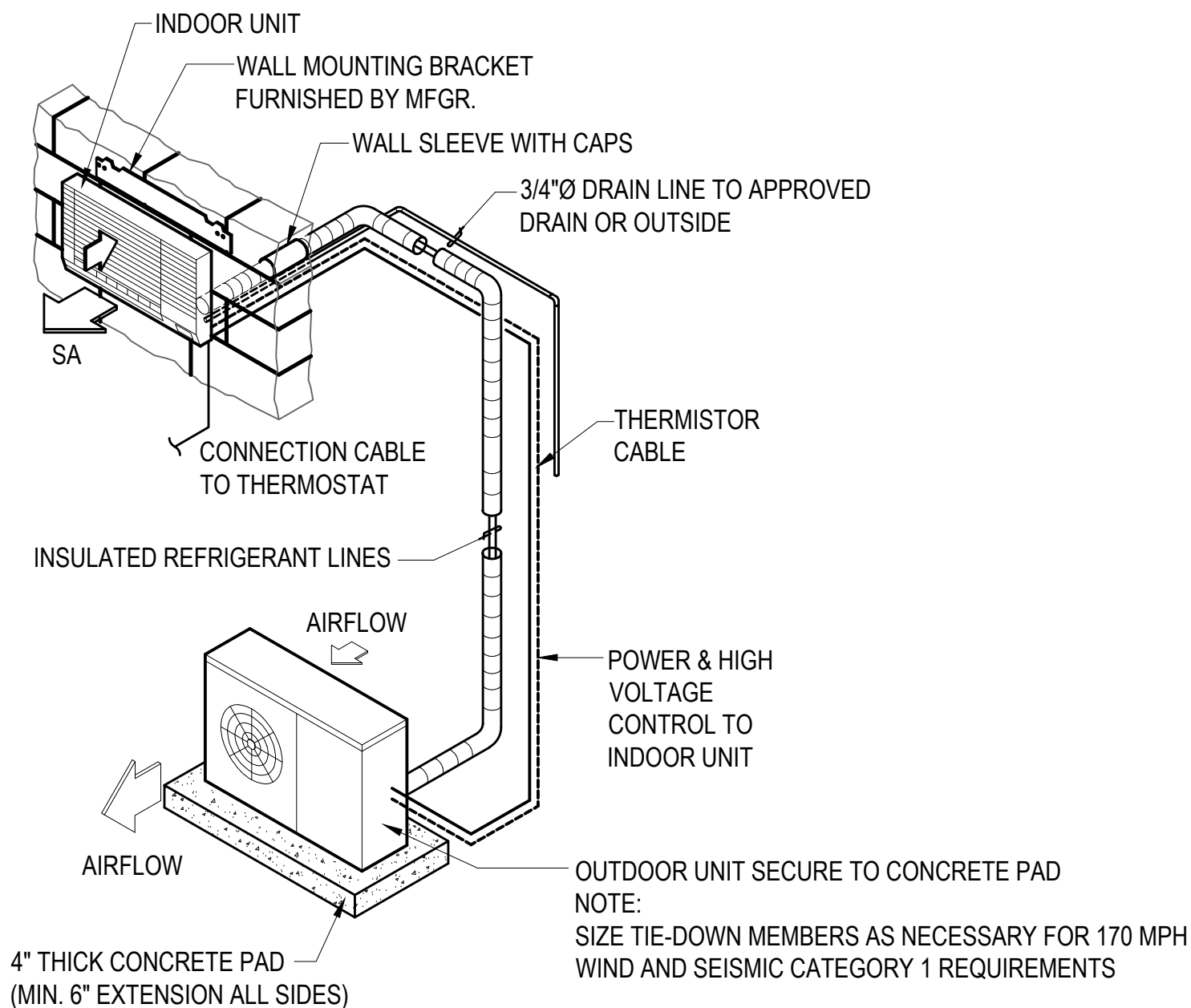
4 GOOSENECK INTAKE EXHAUST DETAIL
M302 NOT TO SCALE



7 TERMINAL UNIT DUCT TAKE-OFF DETAIL
M301 NOT TO SCALE

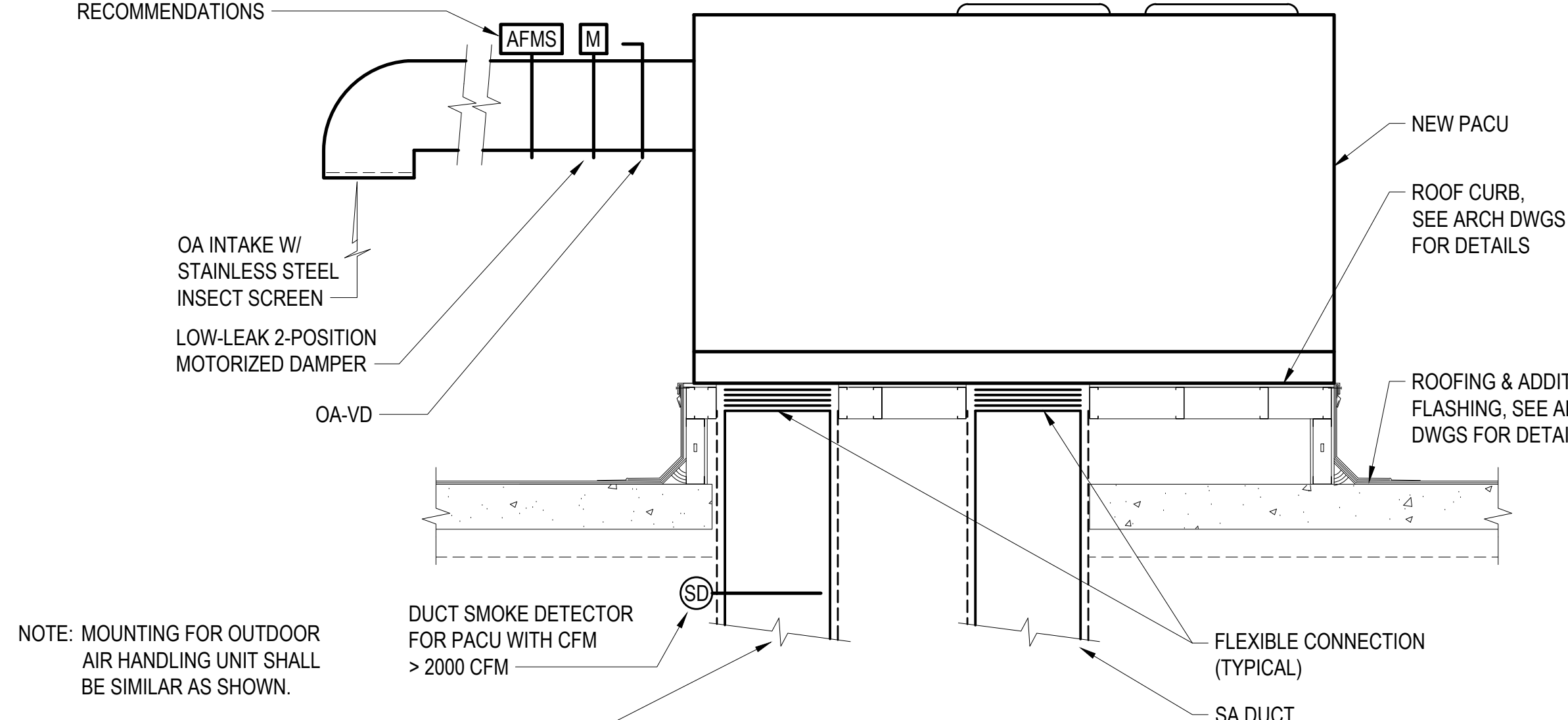


8 DUCT THROUGH ROOF PENETRATION DETAIL
M301 NOT TO SCALE

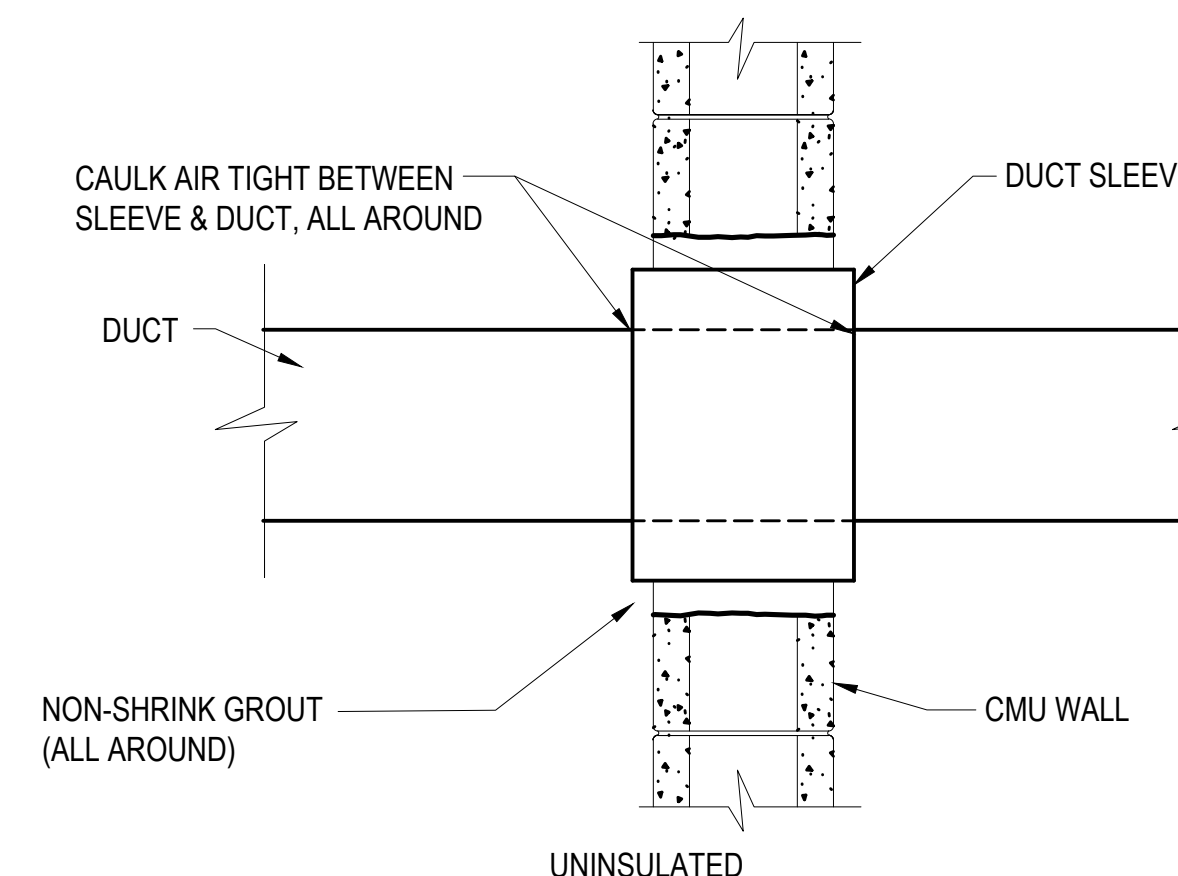


5 DUCTLESS SPLIT SYSTEM DETAIL
M301 NOT TO SCALE

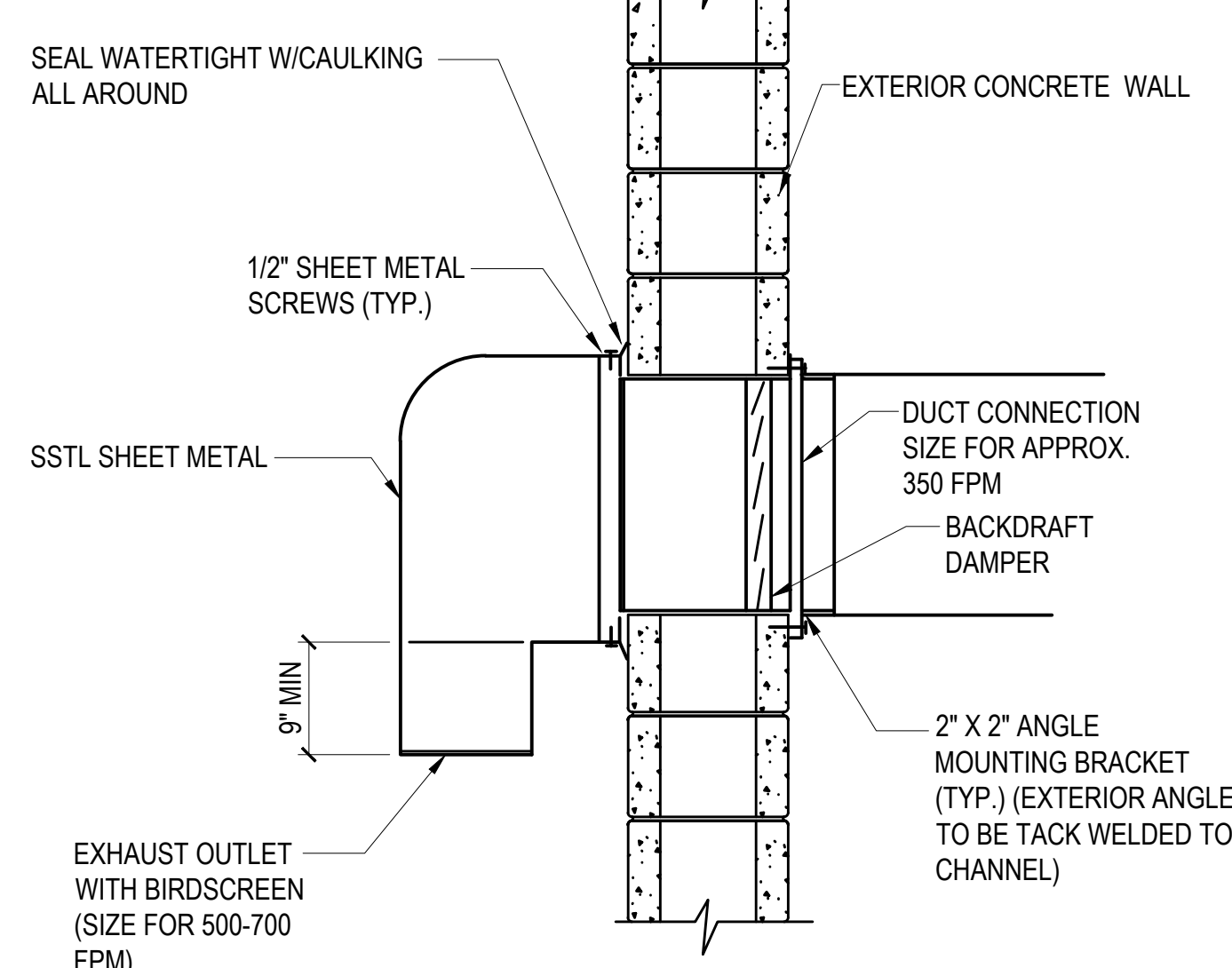
OA AIRFLOW MONITORING STATION, PROVIDE SUFFICIENT STRAIGHT LENGTH SECTIONS UPSTREAM & DOWNSTREAM PER MANUFACTURER'S RECOMMENDATIONS



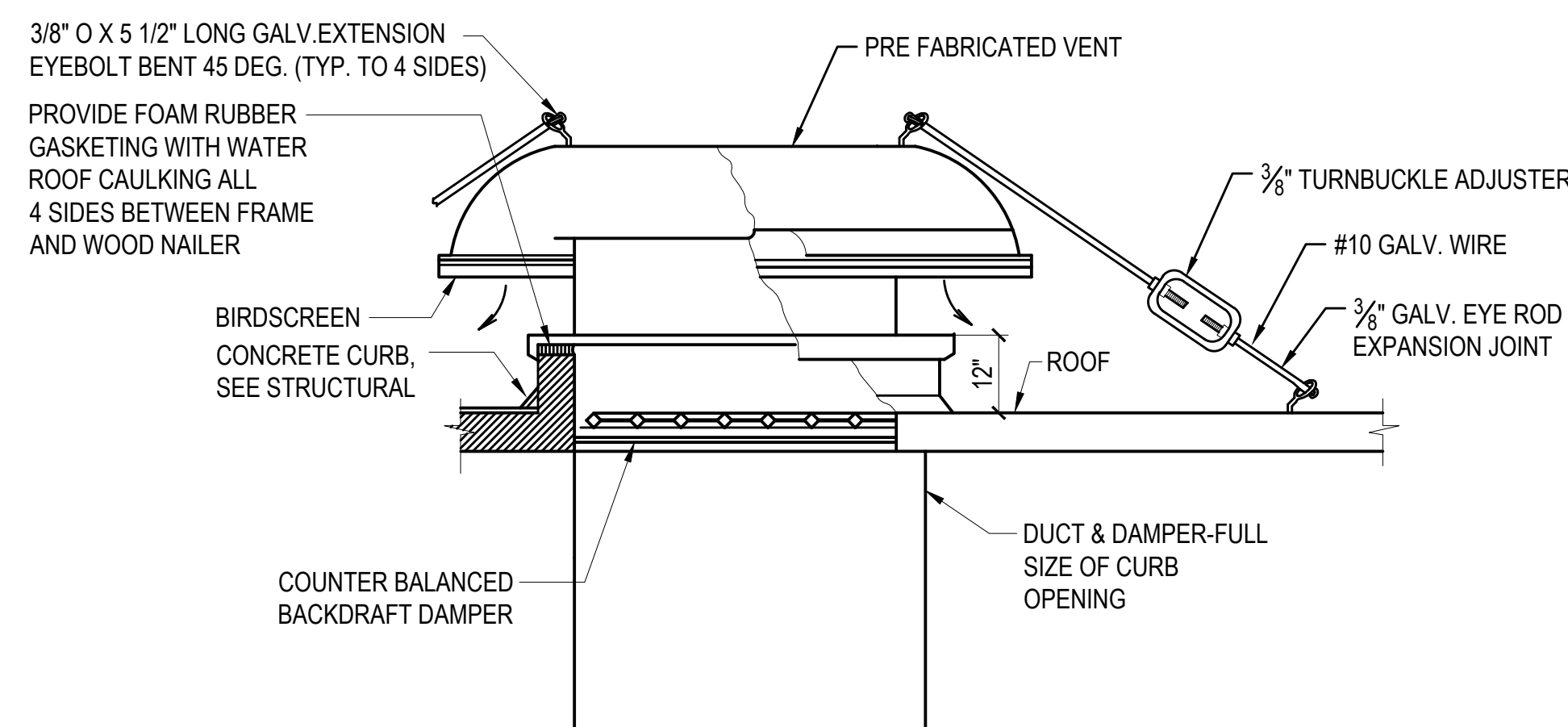
9 PACKAGED AC UNIT ROOFTOP MOUNTING DETAIL
M301 NOT TO SCALE



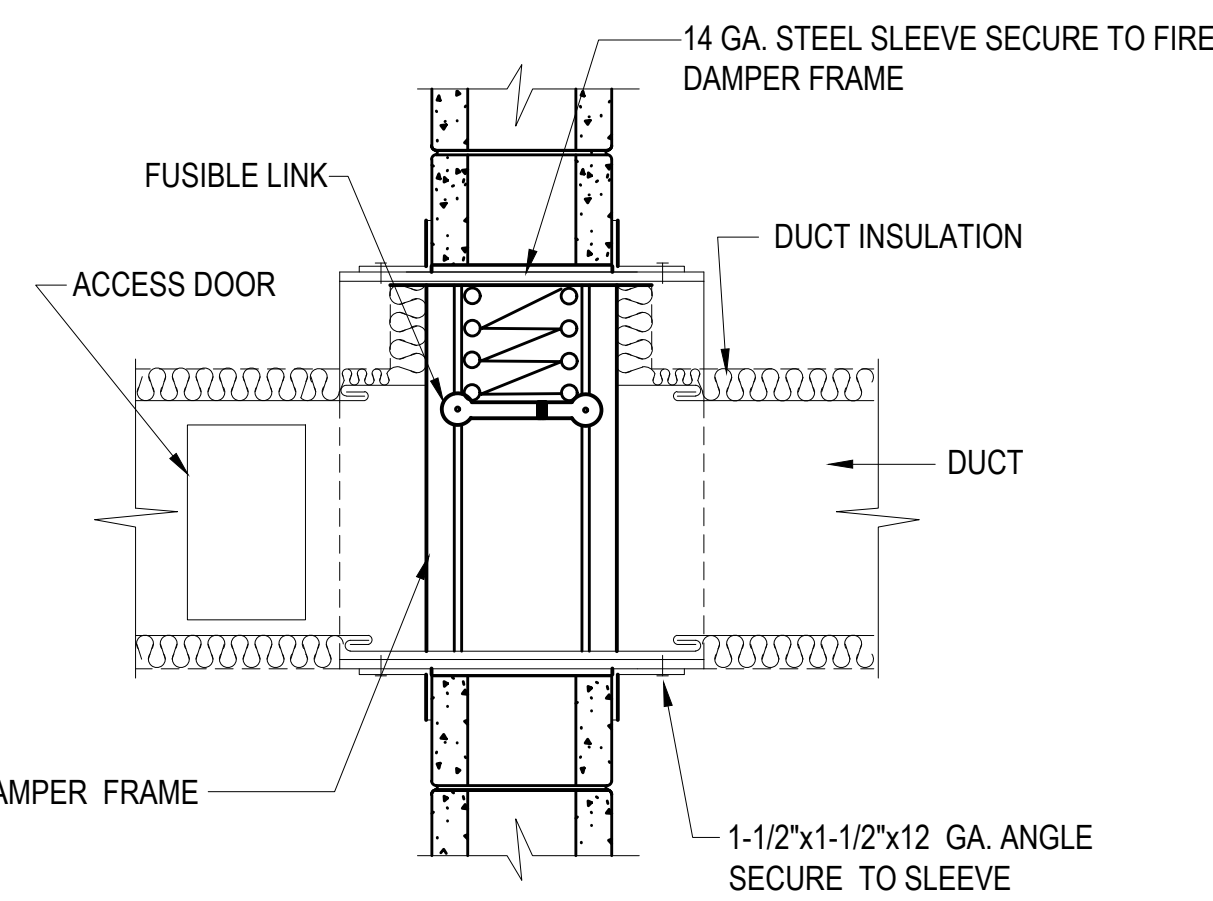
10 DUCT PENETRATION DETAIL
M301 NOT TO SCALE



11 EXHAUST HOOD DETAIL
M301 NOT TO SCALE

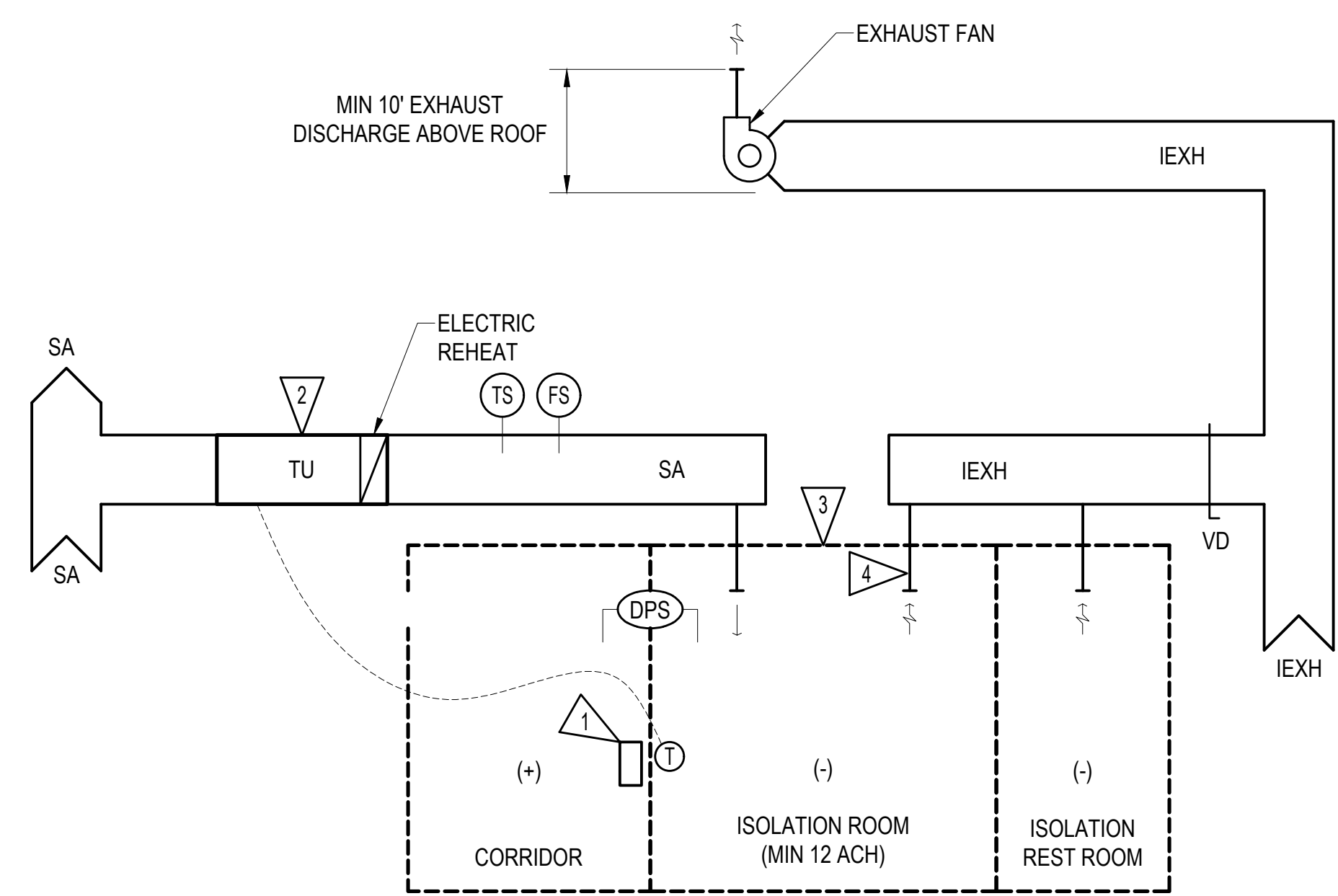


12 INTAKE / RELIEF VENT DETAIL
M301 NOT TO SCALE



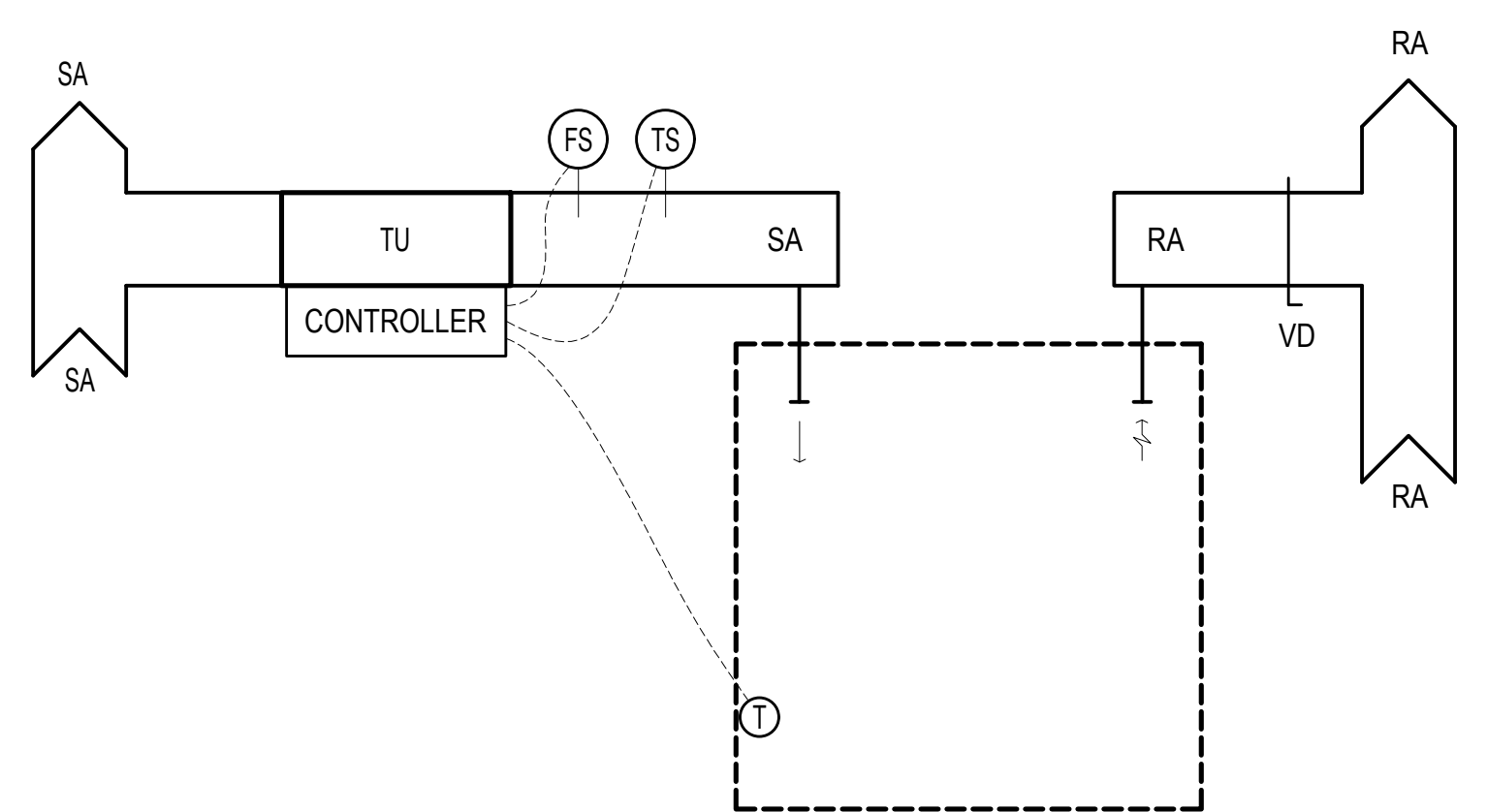
13 HORIZONTAL AIR FLOW FIRE DAMPER DETAIL
M301 NOT TO SCALE

PROJECT TITLE:	OWNER:	SHEET TITLE:
MARK:	DATE:	DESCRIPTION:
DATE:	2024.10.25	
PROJECT NO.:	144052.02	
DRAWN BY:	GCK	
CHECKED BY:	WPL	
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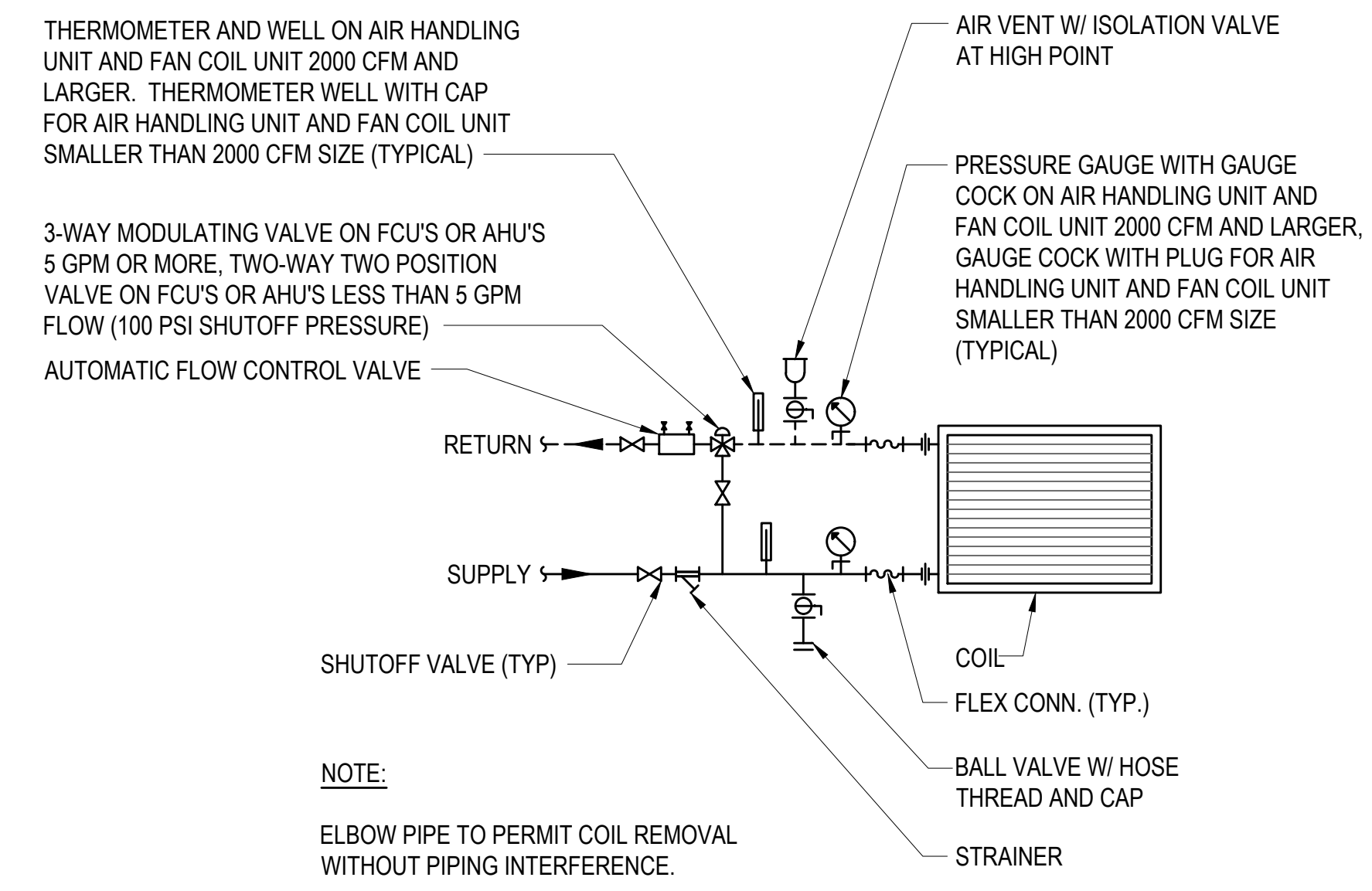
- DIAGRAM NOTES:**
- ISOLATION ROOM PRESSURE MONITOR - MINIMUM 0.01" W.C. DIFFERENTIAL.
 - TU WITH HW REHEAT - SET TO MAINTAIN MINIMUM ACH.
 - ISOLATION ROOM ENVELOPE, DOORS, AND PENETRATIONS SHOULD BE SEALED TO LIMIT AIR LEAKAGE (SEE ARCH REQUIREMENTS).
 - EXHAUST GRILLE PLACED OVER PATIENT BED.

1 TYPICAL ISOLATION ROOM DIAGRAM
M400 NOT TO SCALE

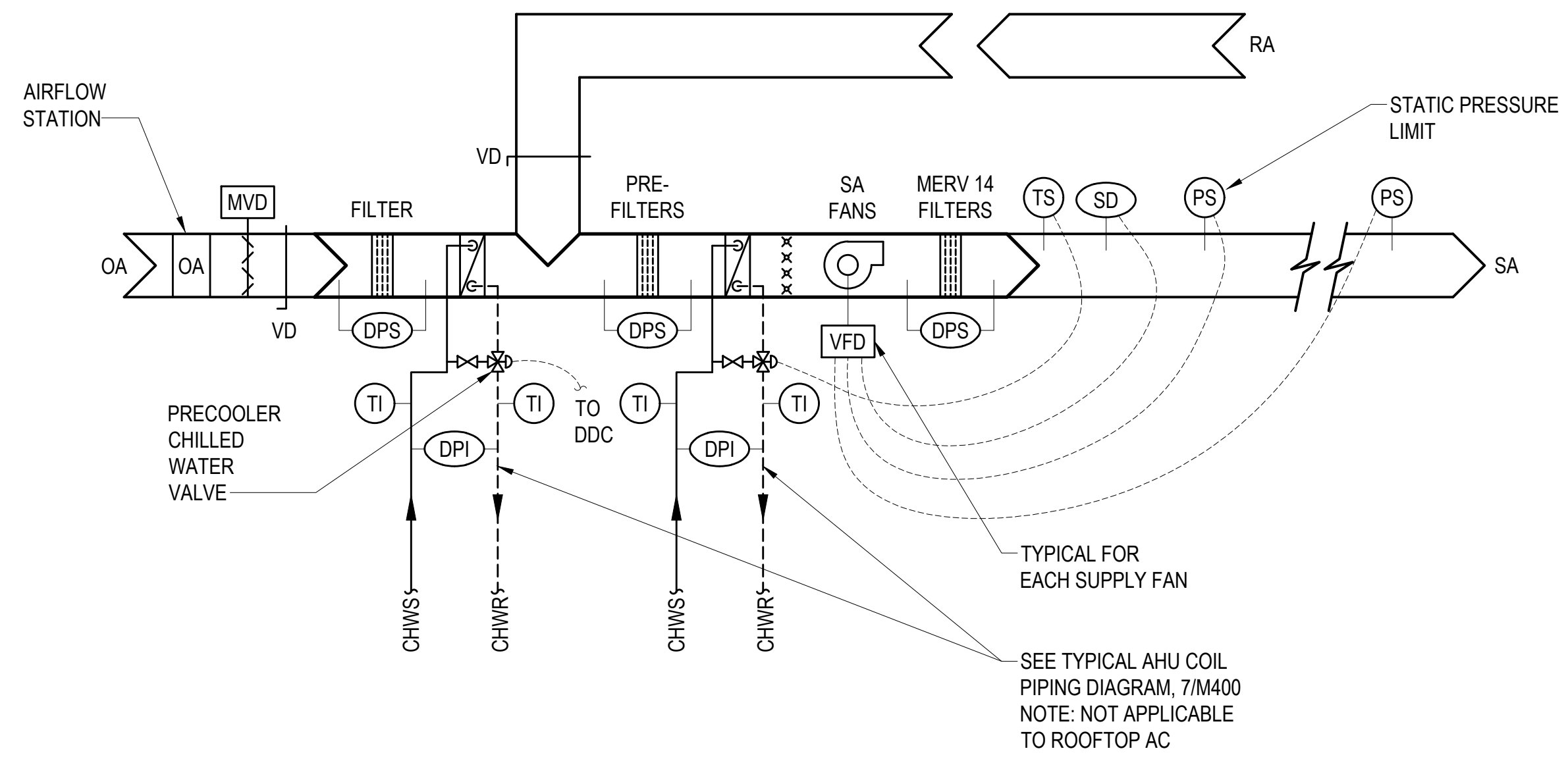


- DIAGRAM NOTES:**
- TU SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM SETTINGS TO SATISFY ROOM THERMOSTAT.

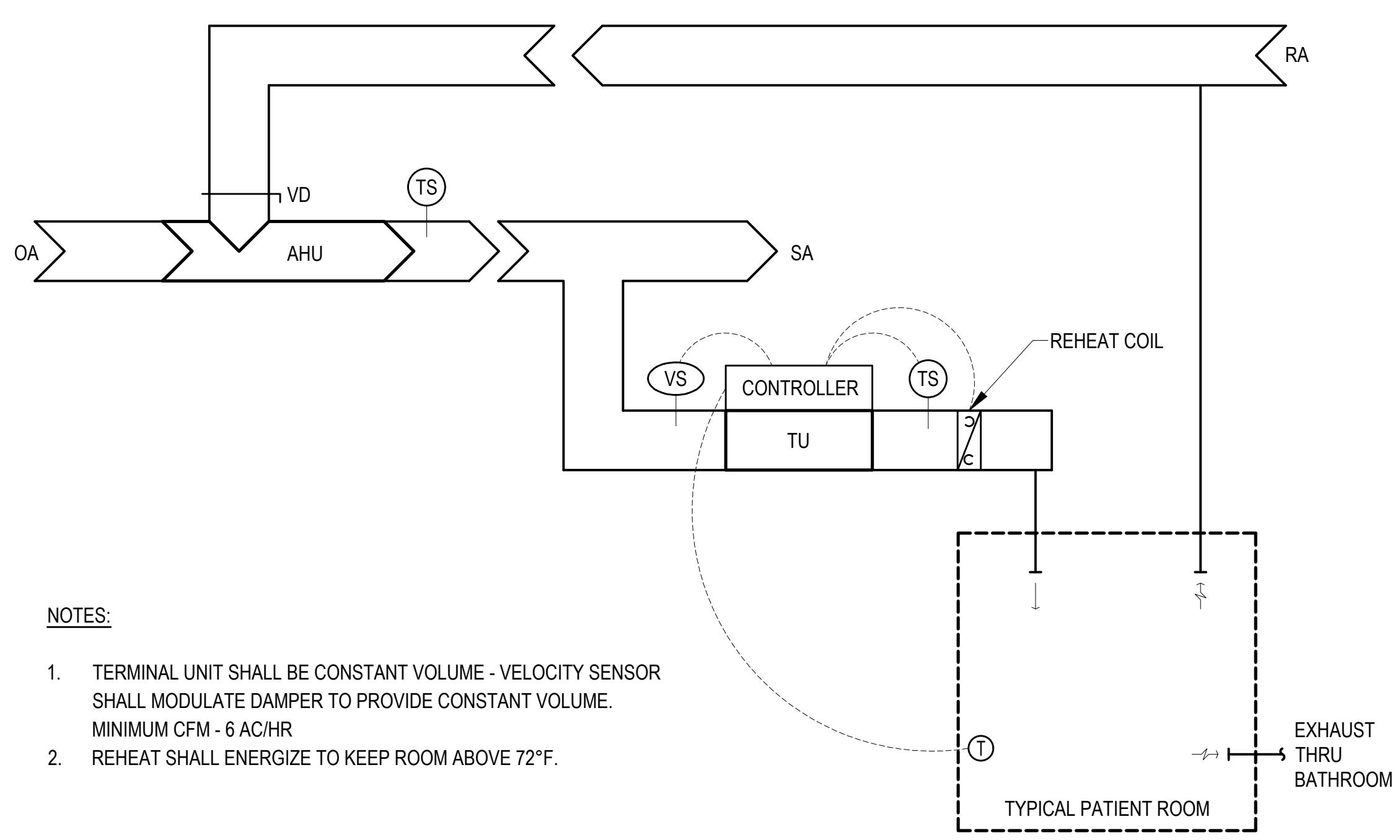
4 TYPICAL ZONE WITH TU
M400 NOT TO SCALE



7 TYPICAL FAN COIL AND AIR HANDLING UNIT COIL PIPING DIAGRAM
M400 NOT TO SCALE

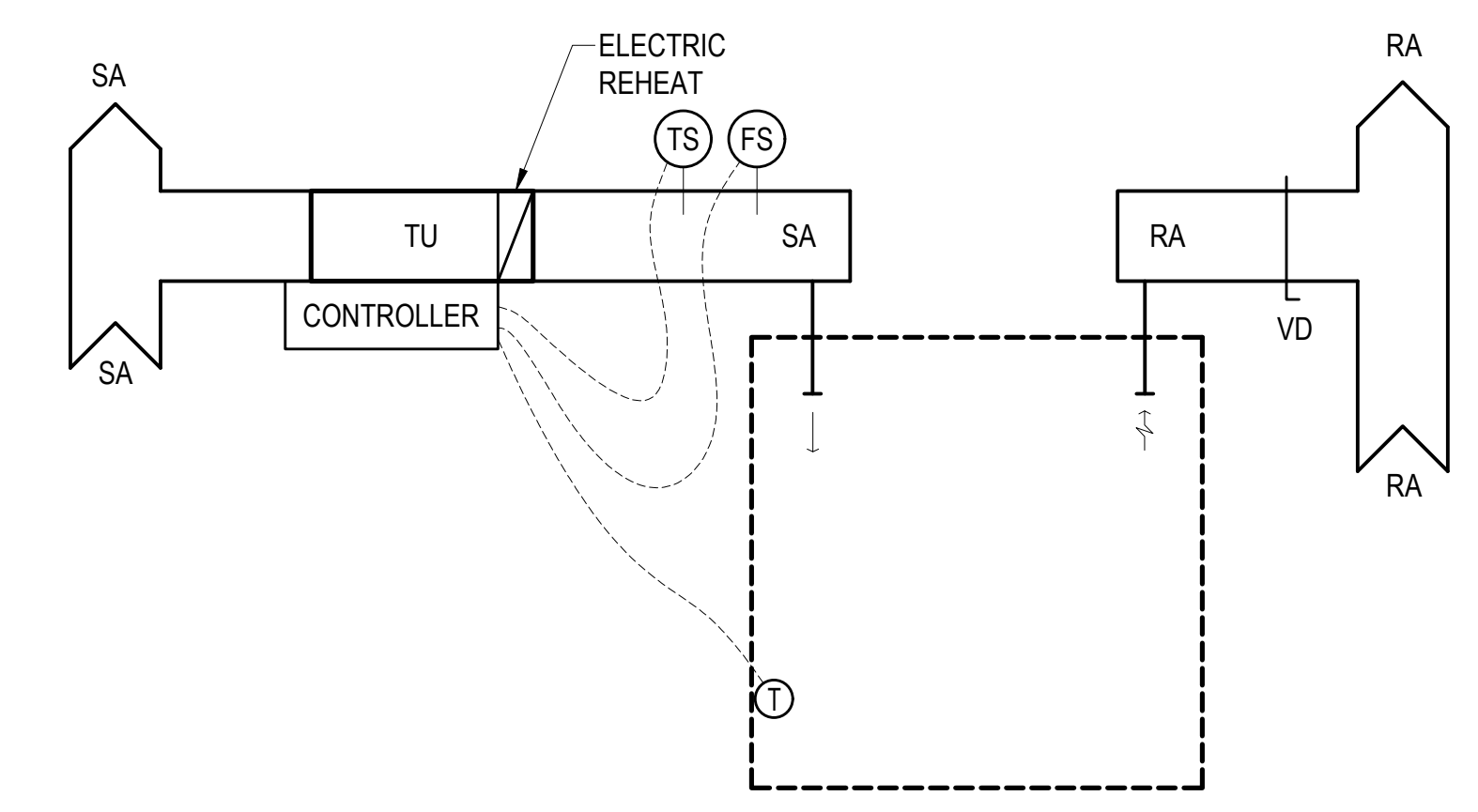


2 TYPICAL HOSPITAL AIR HANDLING UNIT AND ROOFTOP A/C DIAGRAM
M400 NOT TO SCALE



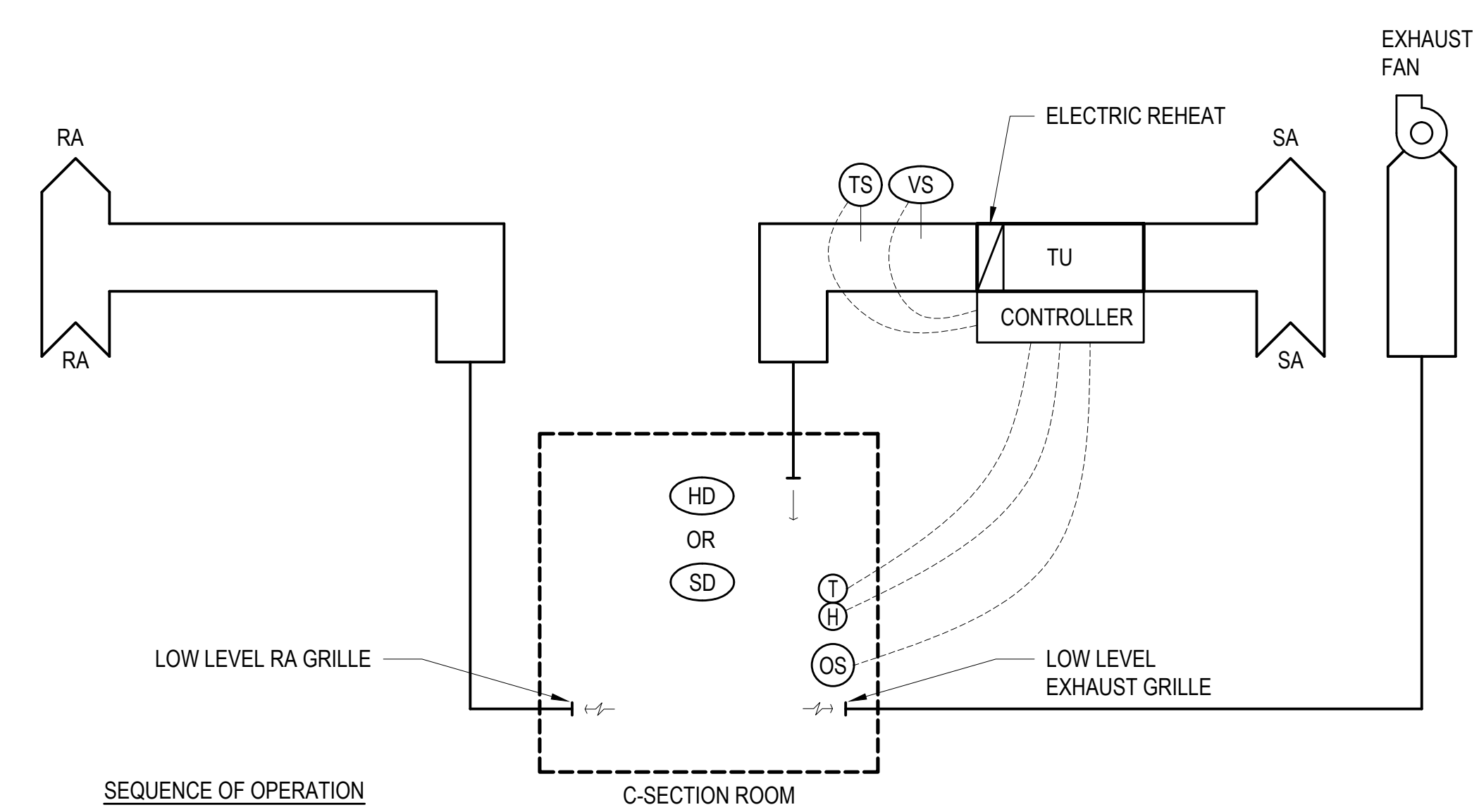
- NOTES:**
- TERMINAL UNIT SHALL BE CONSTANT VOLUME - VELOCITY SENSOR SHALL MODULATE DAMPER TO PROVIDE CONSTANT VOLUME. MINIMUM CFM - 6 AC/HR
 - REHEAT SHALL ENERGIZE TO KEEP ROOM ABOVE 72°F.

5 TYPICAL PATIENT ROOM A/C CONTROL DIAGRAM
M400 NOT TO SCALE



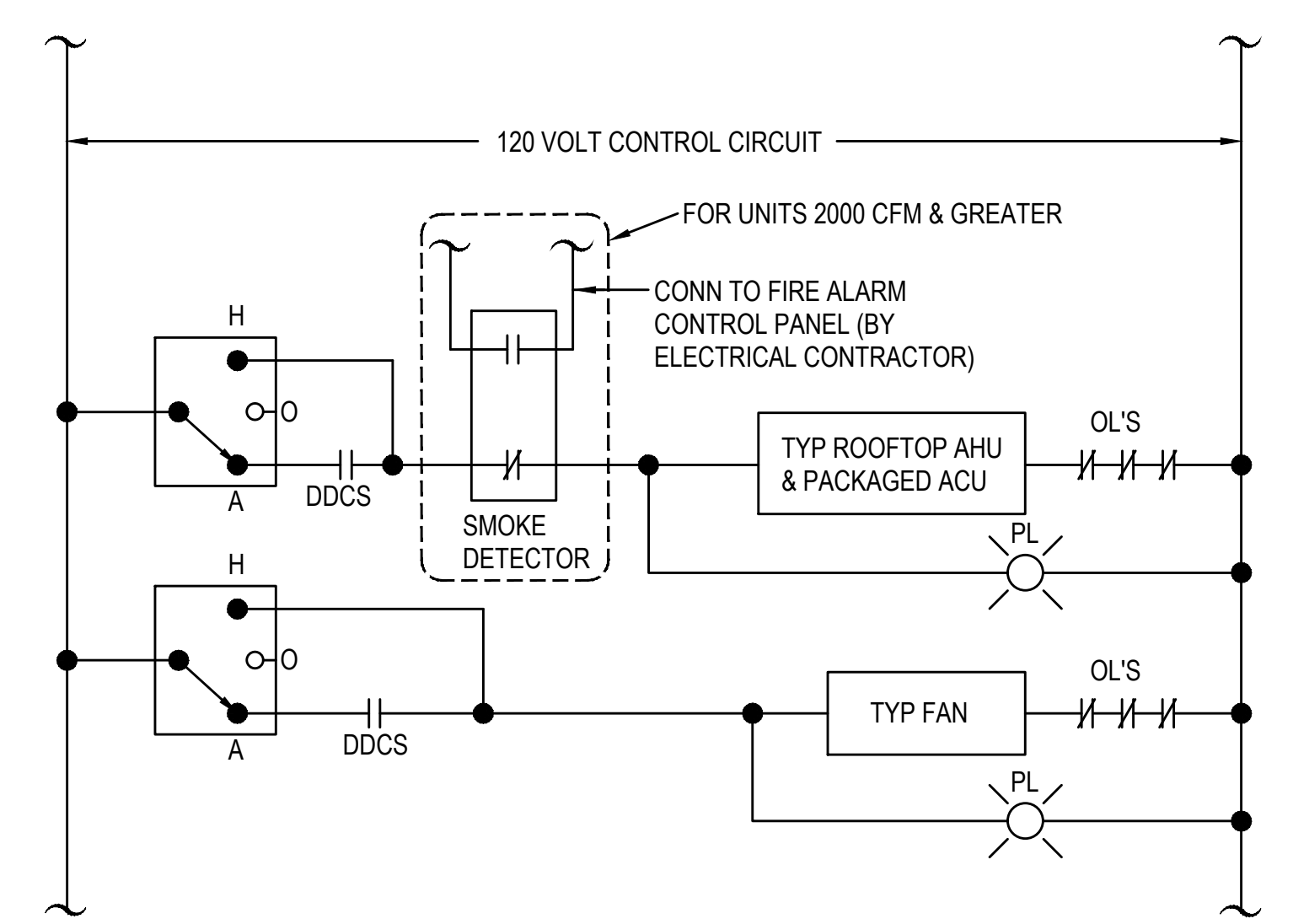
- DIAGRAM NOTES:**
- TU SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM SETTINGS TO SATISFY ROOM THERMOSTAT.
 - WHEN TU IS AT MINIMUM DAMPER SETTING AND TEMPERATURE DROPS BELOW SETTING - ROOM THERMOSTAT SHALL CONTROL ELECTRIC REHEAT COIL TO RAISE SUPPLY AIR TEMPERATURE.

3 TYPICAL ZONE WITH TU WITH REHEAT
M400 NOT TO SCALE



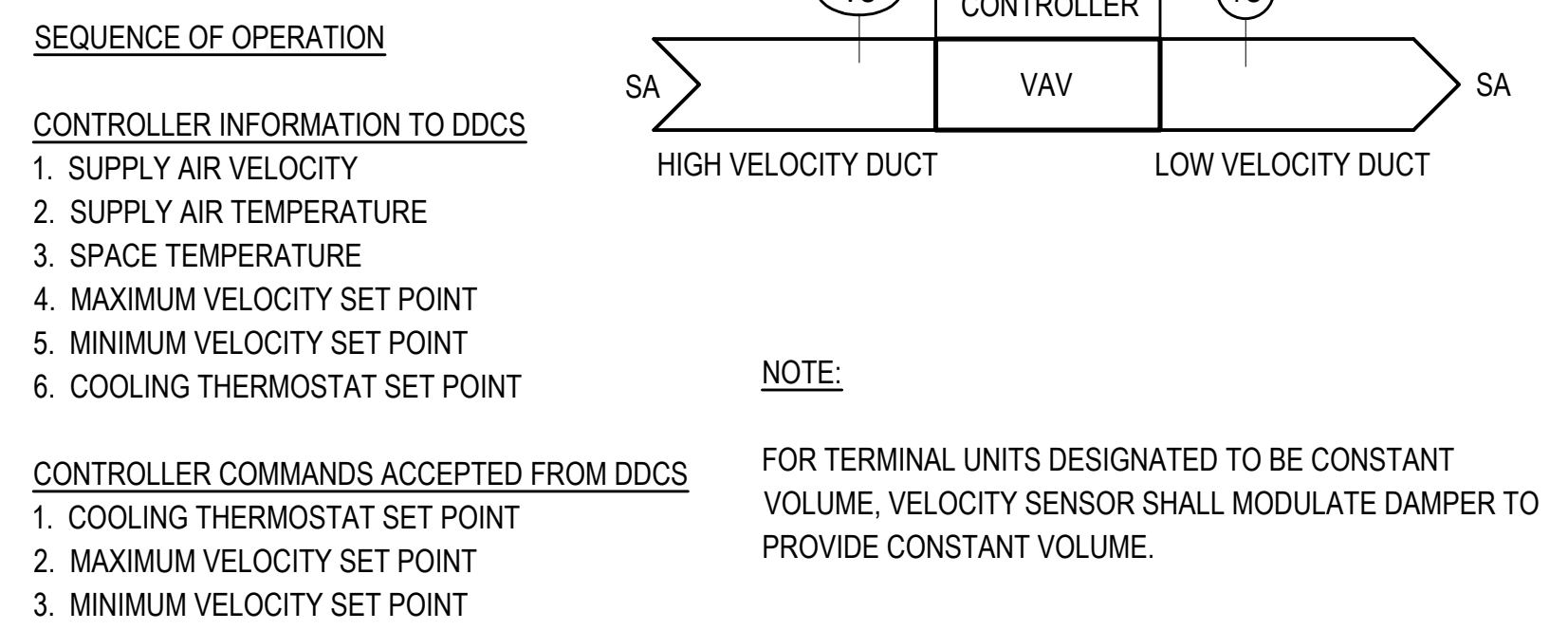
- SEQUENCE OF OPERATION**
- C-SECTION ROOM - NORMAL OPERATION
- SUPPLY AIR TU WILL MAINTAIN A MINIMUM OF 20 ACH DURING NORMAL OPERATIONS OR MORE TO SATISFY LOAD.
 - ROOM THERMOSTAT WILL MAINTAIN TU BOX CONTROL. ROOM TEMPERATURE SHOULD BE AT 68°F.
 - ROOM HUMIDISTAT WILL MEASURE HUMIDITY.
 - ELECTRIC REHEAT WILL ENERGIZE IF TEMPERATURE FALLS BELOW 68°F.

6 OPERATION ROOM A/C CONTROL DIAGRAM
M400 NOT TO SCALE



- NOTES:**
- ONE-LINE DIAGRAM SHOWN IS SCHEMATIC IN NATURE. CONTRACTOR SHALL INSTALL ADDITIONAL RELAYS/CONTACTS, ETC. AS REQUIRED TO PROVIDE INTERLOCK/SEQUENCE FUNCTIONS INDICATED.
 - INSTALL ALL H-O-A, RELAYS, AND PILOT LIGHTS IN GALVANIZED METAL BOX/PANELS. PILOT LIGHTS SHALL BE GREEN WITH PUSH-TO-TEST FEATURE.
 - LABEL ALL CONTROL COMPONENTS, SWITCHES, RELAYS, ETC. BY NAME AND JUNCTURE.

8 ONE-LINE INTERLOCK DIAGRAM
M400 NOT TO SCALE



- SEQUENCE OF OPERATION**
- CONTROLLER INFORMATION TO DDCS**
- SUPPLY AIR VELOCITY
 - SUPPLY AIR TEMPERATURE
 - SPACE TEMPERATURE
 - MAXIMUM VELOCITY SET POINT
 - MINIMUM VELOCITY SET POINT
 - COOLING THERMOSTAT SET POINT
- CONTROLLER COMMANDS ACCEPTED FROM DDCS**
- COOLING THERMOSTAT SET POINT
 - MAXIMUM VELOCITY SET POINT
 - MINIMUM VELOCITY SET POINT
- NOTE:**
- FOR TERMINAL UNITS DESIGNATED TO BE CONSTANT VOLUME, VELOCITY SENSOR SHALL MODULATE DAMPER TO PROVIDE CONSTANT VOLUME.

9 TYP. VAV AIR TERMINAL UNIT CONTROL DIAGRAM
M400 NOT TO SCALE

CONTROL SYMBOLS LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(DPS)	DIFFERENTIAL PRESSURE SENSOR	XXX	VOLUME DAMPER (VD)
DPS	DIFFERENTIAL PRESSURE INDICATOR (GAUGE)	XXX	DAMPER ACTUATOR & DAMPER
PS	PRESSURE SENSOR	~	
TS	TEMPERATURE SENSOR	⊠	COIL
TI	TEMPERATURE INDICATOR	⊠	FILTER BANK
VS	VELOCITY SENSOR	⊠	SOUND ATTENUATOR
H	HUMIDISTAT	⊠	ULTRAVIOLET LIGHTS
T	ROOM TEMPERATURE SENSOR (T-STAT)	⊠	CENTRIFUGAL FAN
HD	HEAT DETECTOR	⊠	PROPELLER FAN
SD	SMOKE DETECTOR	⊠	VARIABLE FREQUENCY DRIVE
DSD	DUCT SMOKE DETECTOR	VFD	
OS	OCCUPANCY SENSOR		
⊠	3-WAY MOTORIZED VALVE		

TERMINAL UNIT SCHEDULE table with columns for AHU, UNIT NUMBER, TYPE, CV/AV, AIRFLOW, ELECTRICAL, REHEAT (kW), INLET SIZE (INCHES), and REMARKS.

AIR TERMINAL SCHEDULE table with columns for TAG, PURPOSE, NECK SIZE (IN.), FACE SIZE (IN.), MAXIMUM CFM, COLOR, BORDER TYPE, and REMARKS.

FAN SCHEDULE table with columns for MARK, CFM, ESP, MOTOR DATA, DRIVE TYPE, CONFIGURATION, DAMPER, LOCATION, and NOTES.

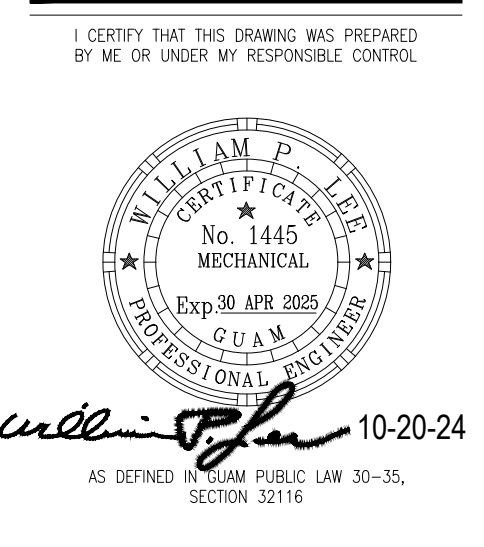
FILTER RACK SCHEDULE table with columns for MARK #, SERVICE, AIRFLOW, FILTER TYPE, PRESS. DROP, SIZE (WxDxH), OPR WT (LB), and NOTES.

SPLIT SYSTEM PACKAGED SCHEDULE table with columns for MARK#, TONNAGE, COOLING CAPACITY (MBTU), MCA/MOCP, VOLTAGE /PHASE, OPR WT (LB), and NOTES.

ACCESSORIES: 1. DIGITAL CONTROLS 3. DISCONNECT SWITCH 2. NON-POROUS SEALED LINER 4. THERMOSTAT

VARIABLE AIR VOLUME (VAV) AIR HANDLING UNIT SCHEDULE table with columns for UNIT NO., LOCATION, TOTAL CAPACITY (BUTH), SENS. CAPACITY (BTUH), LATENT CAPACITY (BTUH), SUPPLY AIR (CFM), OUTSIDE AIR (CFM), COIL FACE VELOCITY (FPM), ENT. AIR TEMP., CHILLED WATER, FILTER, TOTAL S.P., FAN RPM, ELECTRICAL, OPER. WEIGHT (LBS), and REMARKS.

VARIABLE AIR VOLUME (VAV) PACKAGED AIR CONDITIONING UNIT SCHEDULE table with columns for UNIT NO., LOCATION, TOTAL CAPACITY (BUTH), SENS. CAPACITY (BTUH), LATENT CAPACITY (BTUH), AMBIENT AIR TEMP., SUPPLY AIR (CFM), OUTSIDE AIR (CFM), ENT. AIR TEMP., EVAPORATOR FAN, CONDENSER FAN, COMPRESSOR, FILTER, OPER. WEIGHT (LBS), and REMARKS.



PERMIT SET

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
GUAM MEMORIAL HOSPITAL AUTHORITY
MECHANICAL SCHEDULES

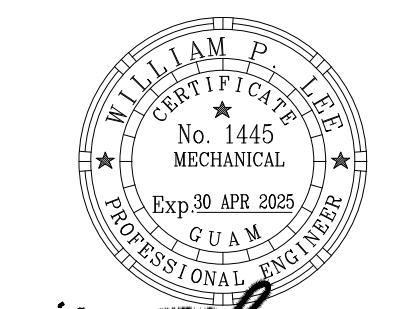
PROJECT TITLE, OWNER, SHEET TITLE

MARK, DATE, DESCRIPTION
DATE: 2024.10.25
PROJECT NO: 144052.02
DRAWN BY: GCK
CHECKED BY: WPL
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DWG NO: M401



I CERTIFY THAT THIS DRAWING WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CONTROL.



10-23-24
AS DEFINED IN THE HRS&C LAW 33-30, SECTION 2316

PERMIT SET

			DDCS POINT SCHEDULE																																												
EQUIPMENT DESCRIPTION	LOCATION OR SERVICE	DRAWING REFERENCE	COMMANDS			BINARY INPUTS					ANALOG INPUTS																							REMARKS:													
			START/STOP	RESET	STATUS	FIRE STAT	SMOKE DETECTOR ALARM (REMARK 1)	TEMPERATURE	INDIVIDUAL TIME SCHEDULE	CHWS TEMP RESET	CHS TEMP RESET	CHS TEMPERATURE	CHR TEMPERATURE	CWS TEMPERATURE	CWR TEMPERATURE	CHS PRESSURE	CHS PRESSURE	CWR PRESSURE	CWR PRESSURE	AMPERES	KILOWATTS DEMAND	CHW FMS GPM	CW FMS GPM	INLET PRESSURE	OUTLET PRESSURE	GPM FLOW	ROOM TEMPERATURE	SA TEMPERATURE	RA TEMPERATURE	CAWB TEMPERATURE	CA/DB TEMPERATURE	FMS (TURBINE)	RELATIVE HUMIDITY %		STATIC PRESSURE	OA AIR FLOW STATION	CHW VALVE IN/OUT	EMERGENCY PUSHBUTTON	LIQUID LEVEL SENSOR	STEAM PRESSURE	DIFFERENTIAL PRESS GAUGE	HW TEMPERATURE	HWR TEMPERATURE	RHW PRESSURE	RHW PRESSURE	VARIABLE FREQUENCY DRIVE	
VFD AIR HANDLER UNITS	VARIES		●	4		●	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	3	1. ALARM AT WORKSTATION IF STATUS IS DIFFERENT FROM COMMAND. PROVIDE ADDITIONAL ALARM WHERE INDICATED. 2. CHW DIFFERENTIAL PRESSURE AND RESET. 3. ALL OUTPUT AND INPUT OF VFD CONTROL PANEL (SEE SPEC). 4. RESET SA DISCHARGE TEMPERATURE & DUCT STATIC PRESSURE. 5. SEE DETAIL 9/M400. 6. CONNECT TO FIRE ALARM SYSTEM. 7. CONTROL ON/OFF AND STAGES. 8. AIR FLOW STATION.			
UV-C LAMPS	VARIES					●																																									
EXHAUST FAN	VARIES		●			●																																									
FAN COIL UNITS	VARIES		●			●																																									
REHEAT COILS	VARIES		●	7																																											
VAV TERMINAL UNITS (REMARK 5)	VARIES																																														
ROOFTOP PACKAGED AC	ROOF		●	4		●	6	●	●																																						

ROOM PRESSURE MONITOR									
MARK	LOCATION	SERVICE	PRESSURE RANGE (IN WG)	SETPOINT (IN WG)	LOW ALARM (IN WG)	HIGH ALARM (IN WG)	VOLTS	PHASE	REMARKS
PM-1 PM-2 PM-3 PM-4	LDR 3 ISOLATION RM (262) POST PARTUM 14 (225) POST PARTUM 15 (224) C-SECTION (258)	ISOLATION (AII) ISOLATION (AII) ISOLATION (AII) OPERATING ROOM	+/- 0.25 IN WG	-0.02 -0.02 -0.02 +0.02	> -0.01 > -0.01 > -0.01 < +0.01	N/A	24	1	WALL MOUNTED DIGITAL DISPLAY WITH VISUAL ALARM IN CRITICAL CARE SPACE AND ALARM INDICATION LIGHT OUTSIDE THE ROOM. +/- 0.5% FULL SCALE ACCURACY. ADJUSTABLE DOOR ALARM DELAY. WHITE WALL MOUNTED PORTRAIT FACEPLATES. ANALOG OUTPUT FOR DDC SYSTEM MONITORING. PROVIDE ALL ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. 24 VAC / 2 WATTS LOW VOLTAGE POWER TO EACH PRESSURE MONITOR, ELECTRICAL TO PROVIDE 120V/1PH CIRCUITS TO PRESSURE MONITOR AS REQUIRED. SETRA LITE OR EQUAL.

MCH RENOVATION PROJECT, GMHA 007-2014
GMHA FAMILY BIRTH CENTER
 850 GOVERNOR CAMACHO ROAD, OKA, TAMUNING, GUAM 96913
 GUAM MEMORIAL HOSPITAL AUTHORITY
 MECHANICAL DDCS POINT SCHEDULE

PROJECT TITLE:
OWNER:
SHEET TITLE:

MARK	DATE	DESCRIPTION

DWG NO:
M402