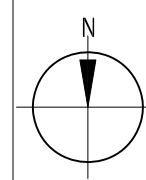


AHU Replacement at Sylvania Williams Elementary School

RSD Project #2010-0876-0001

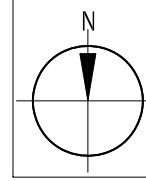
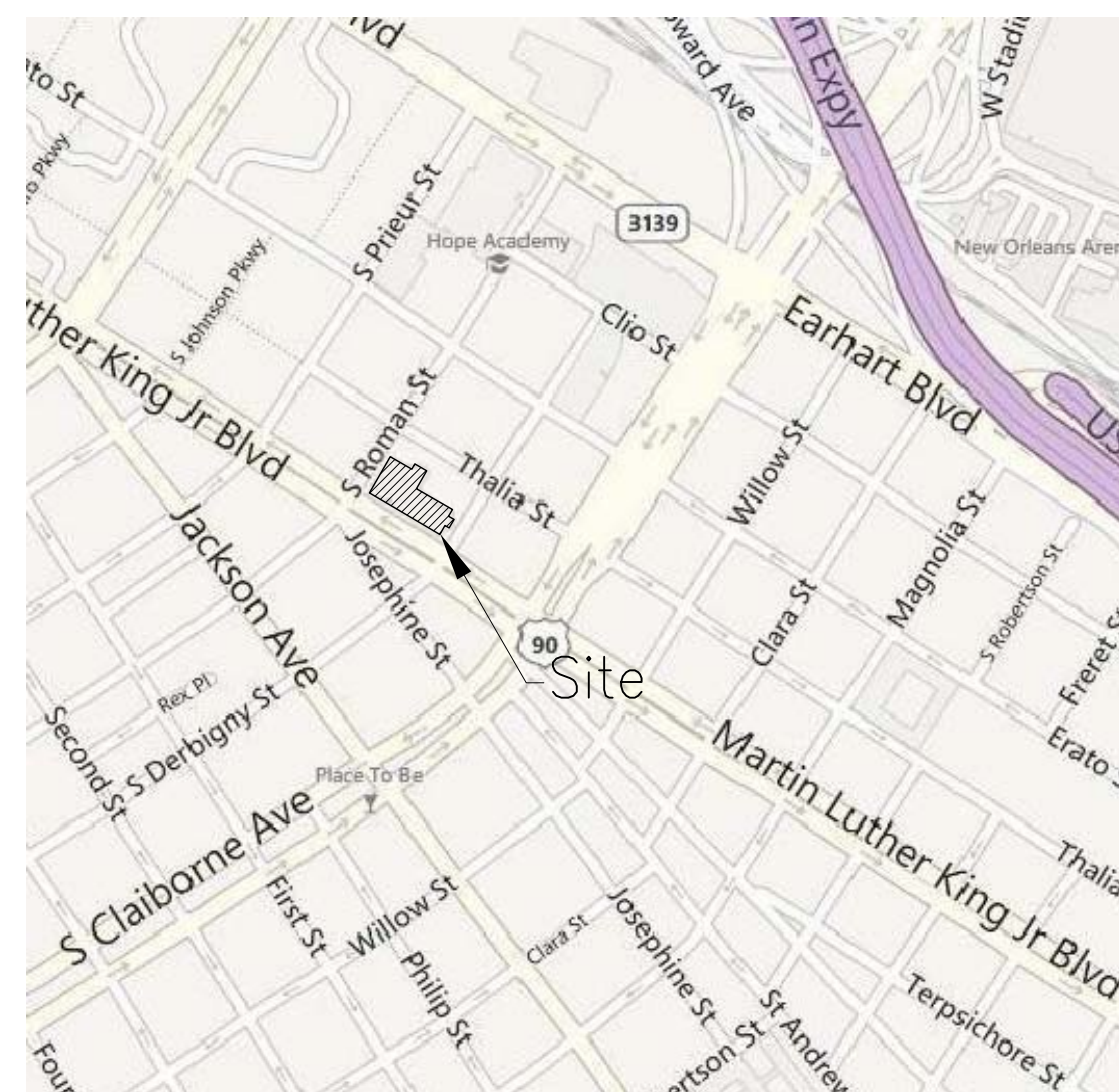
3127 Martin Luther King Jr. Blvd., New Orleans, LA 70125

SITE AERIAL



N.T.S.

VICINITY MAP



N.T.S.

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- MD1.2 HVAC SECOND FLOOR DEMOLITION PLAN
- MD1.3 HVAC THIRD FLOOR DEMOLITION PLAN
- MD1.4 HVAC ROOF PLAN
- MD2.1 HVAC ENLARGED DEMOLITION PLANS
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- MD2.3 HVAC ENLARGED DEMOLITION PLANS
- MO.1 HVAC GENERAL NOTES, ABBREVIATIONS, & LEGENDS
- MO.2 HVAC SCHEDULES
- M1.1 HVAC FIRST FLOOR PLAN
- M1.2 HVAC SECOND FLOOR PLAN
- M1.3 HVAC THIRD FLOOR PLAN
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- E1.3 THIRD FLOOR ELECTRICAL PLAN
- E1.4 ROOF ELECTRICAL PLAN
- E1.5 PANEL SCHEDULES AND DETAILS
- E1.6 PANEL SCHEDULES AND DETAILS

PROJECT SUMMARY

PROJECT NAME AHU REPLACEMENT AT SYLVANIE WILLIAMS ELEMENTARY SCHOOL
RSD PROJECT #2011-0876-0001

ADDRESS 3127 MARTIN LUTHER KING JR. BLVD.
NEW ORLEANS, LA 70125

PROPOSED USE EDUCATIONAL

BLDG. SQ. FTG. 65,954

APPLICABLE CODES

BUILDING CODE IBC 2006 ENERGY CODE ASHRAE 90.1

MECHANICAL CODE IMC 2006

PLUMBING CODE LSPC 2000

ELECTRICAL CODE NEC 2005

BUILDING PLANNING

OCCUPANCY EDUCATIONAL

MIXED OCCUPANCY YES REQ'D FIRE SEPARATION NO

PROJECT DIRECTORY

MECHANICAL
IMS ENGINEERS
126 EAST AMITE STREET
JACKSON, MS 39201
PH: 601.968.9194
FX: 601.968.8118

ELECTRICAL
INFINITY ENGINEERING CONSULTANTS, LLC
2626 CANAL STREET, SUITE 202
NEW ORLEANS, LA 70179

LOUISIANA STATE OFFICIALS

State of Louisiana Governor
Bobby Jindal

State of Louisiana Commissioner of Administration
Paul W. Rainwater

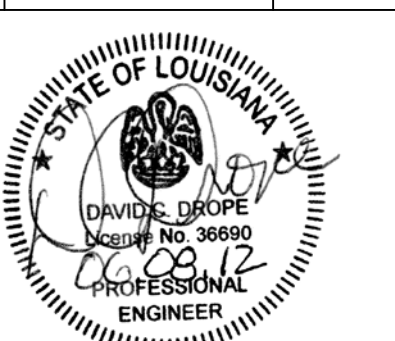
State of Louisiana Superintendent of Education
John White



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AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125

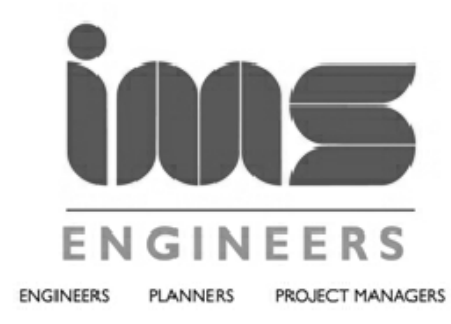
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NO.	REMARKS	DATE



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DESIGNED BY: DSD DATE: JUNE 08, 2012
CHECKED BY: DSD PROJECT: 2011.0876-0001
PATH NAME:
DRAWING TITLE:

TITLE SHEET/KEY PLAN

SHEET NUMBER:
T1.1



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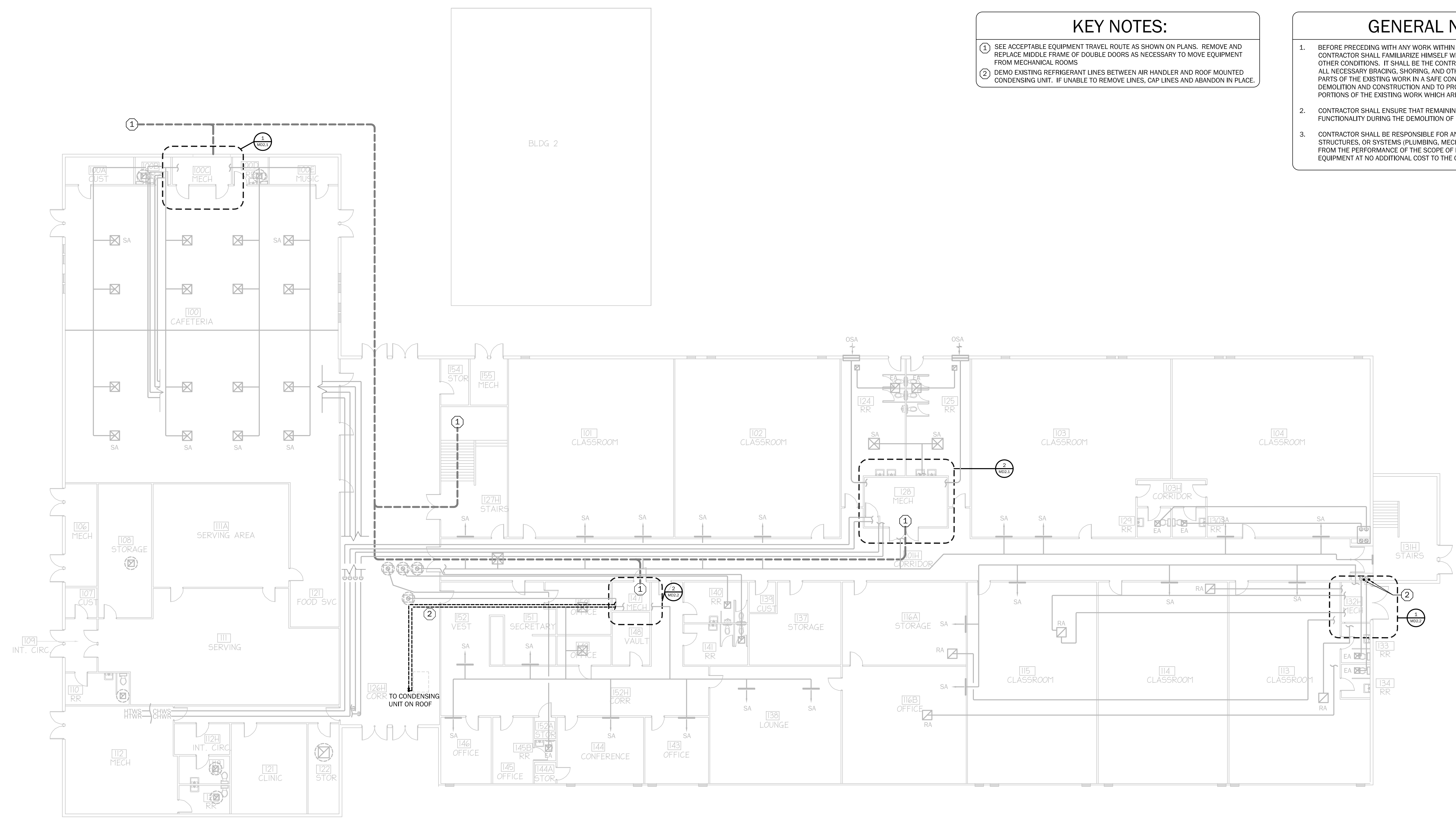
AHU REPLACEMENT AT SYLVANIE WILLIAMS
 ELEMENTARY SCHOOL
 3127 MARTIN LUTHER KING JR. BOULEVARD
 NEW ORLEANS, LA 70125

KEY NOTES:

- ① SEE ACCEPTABLE EQUIPMENT TRAVEL ROUTE AS SHOWN ON PLANS. REMOVE AND REPLACE MIDDLE FRAME OF DOUBLE DOORS AS NECESSARY TO MOVE EQUIPMENT FROM MECHANICAL ROOMS
- ② DEMO EXISTING REFRIGERANT LINES BETWEEN AIR HANDLER AND ROOF MOUNTED CONDENSING UNIT. IF UNABLE TO REMOVE LINES, CAP LINES AND ABANDON IN PLACE.

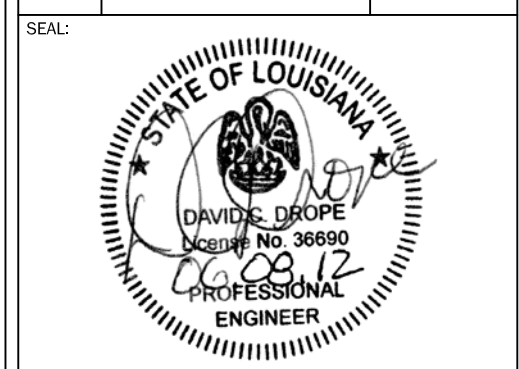
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1 MD1.1 HVAC FIRST FLOOR DEMOLITION PLAN SCALE: 3/32"=1'

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: CDH SCALE: 3/32"=1'
 DESIGNED BY: DSD DATE: JUNE 08, 2012
 CHECKED BY: DSD PROJECT: 2011.0876.0001
 PATH NAME:
 DRAWING TITLE:

HVAC FIRST FLOOR
 DEMOLITION PLAN
 SHEET NUMBER:
MD1.1

Synergy back should include labor breakdown (where did they get the hourly rates for the Engineering and Technician,

KEY NOTES:

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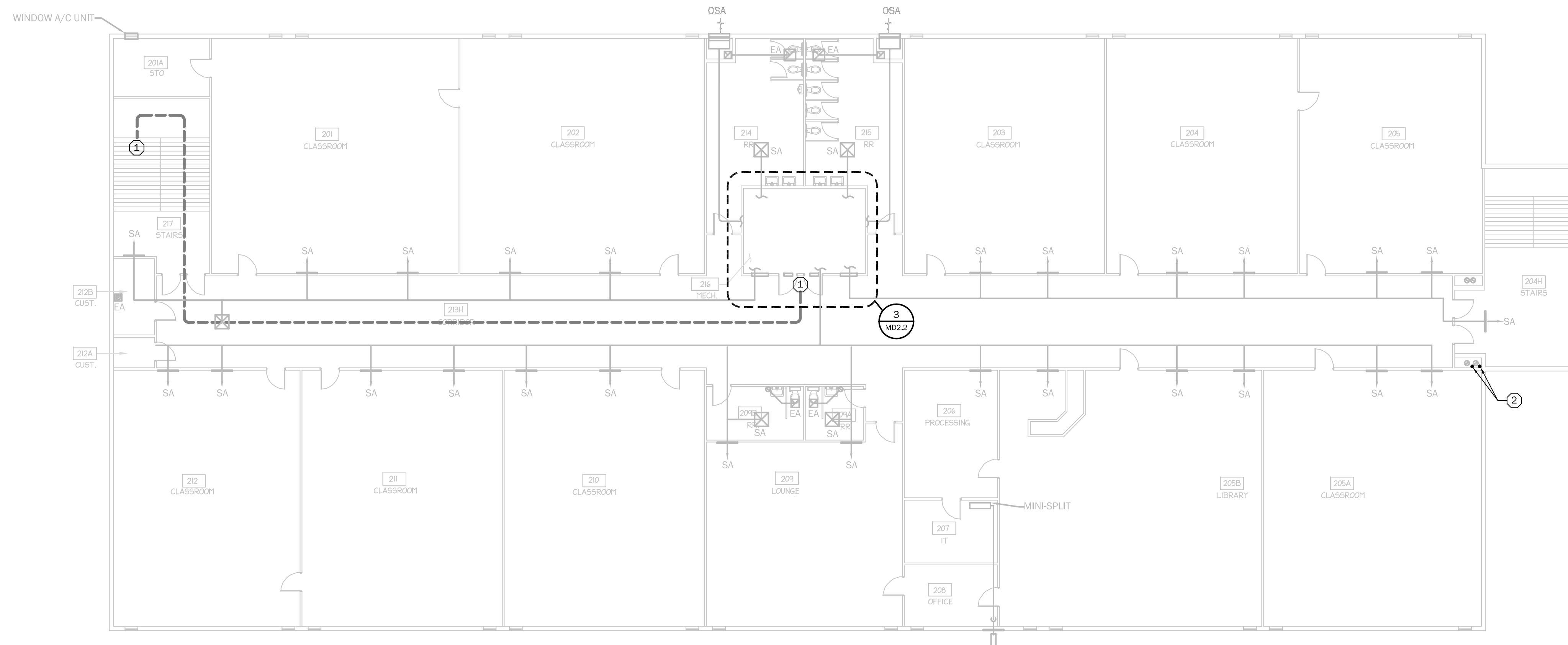
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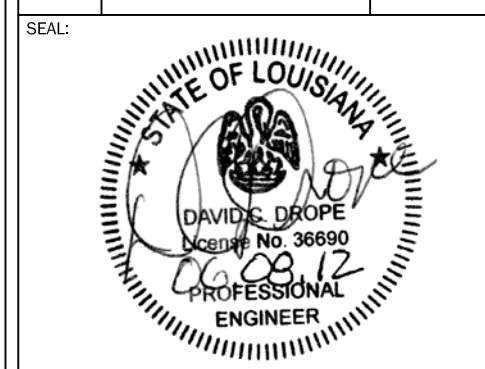
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AHU REPLACEMENT AT SYLVANIE WILLIAMS
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3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125



1 MD1.2 SCALE: 1/8"=1' HVAC SECOND FLOOR DEMOLITION PLAN

DRAWING REVISIONS		
NO.	REMARKS	DATE



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DRAWING TITLE:

HVAC SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER:
MD1.2

KEY NOTES:

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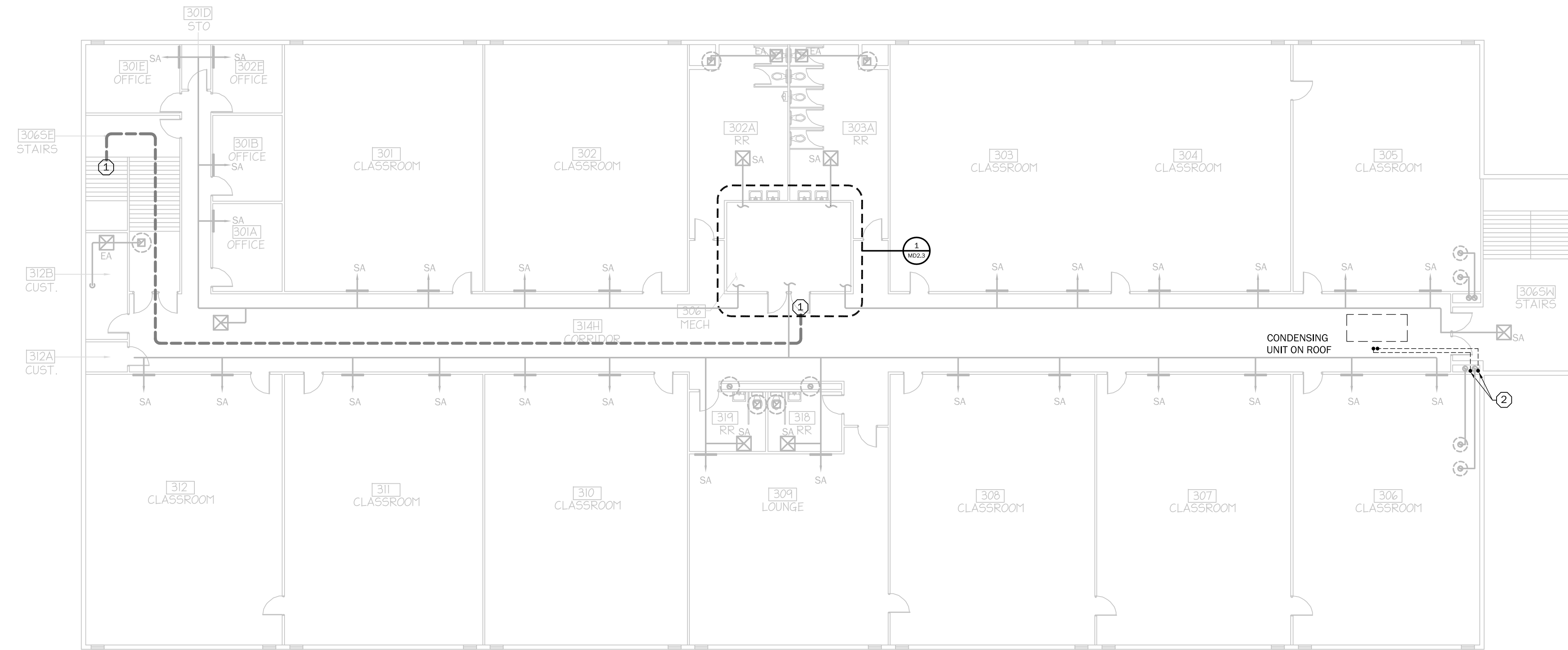
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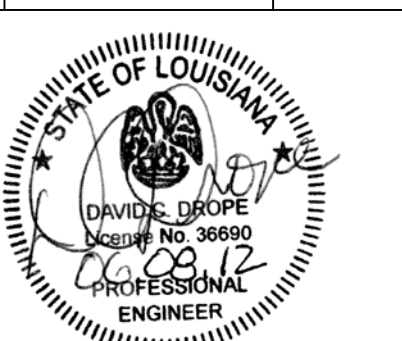
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AHU REPLACEMENT AT SYLVANIE WILLIAMS
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HVAC THIRD FLOOR DEMOLITION PLAN
SCALE: 3/32"=1'

DRAWING REVISIONS		
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PATH NAME:
DRAWING TITLE:

HVAC THIRD FLOOR
DEMOLITION PLAN

SHEET NUMBER:
MD1.3



KEY NOTES:

① DEMO EXISTING EXHAUST FAN AND SALVAGE ROOF CURB IF POSSIBLE. IF ROOF CURB IS NOT SALVAGABLE CONTRACTOR SHALL BE RESPONSIBLE FOR REFURBISHING CURB AT NO ADDITIONAL COST TO THE OWNER.

② DEMO EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT SUCTION AND LIQUID LINE. REPAIR AND SEAL ROOF PENETRATIONS AS NECESSARY.

GENERAL NOTES:

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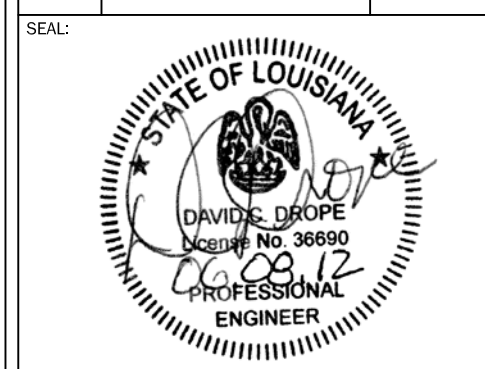


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 ELEMENTARY SCHOOL
 3127 MARTIN LUTHER KING JR. BOULEVARD
 NEW ORLEANS, LA 70125**

 **HVAC ROOF DEMOLITION PLAN**
 MD1.4 SCALE: 3/32"=1'

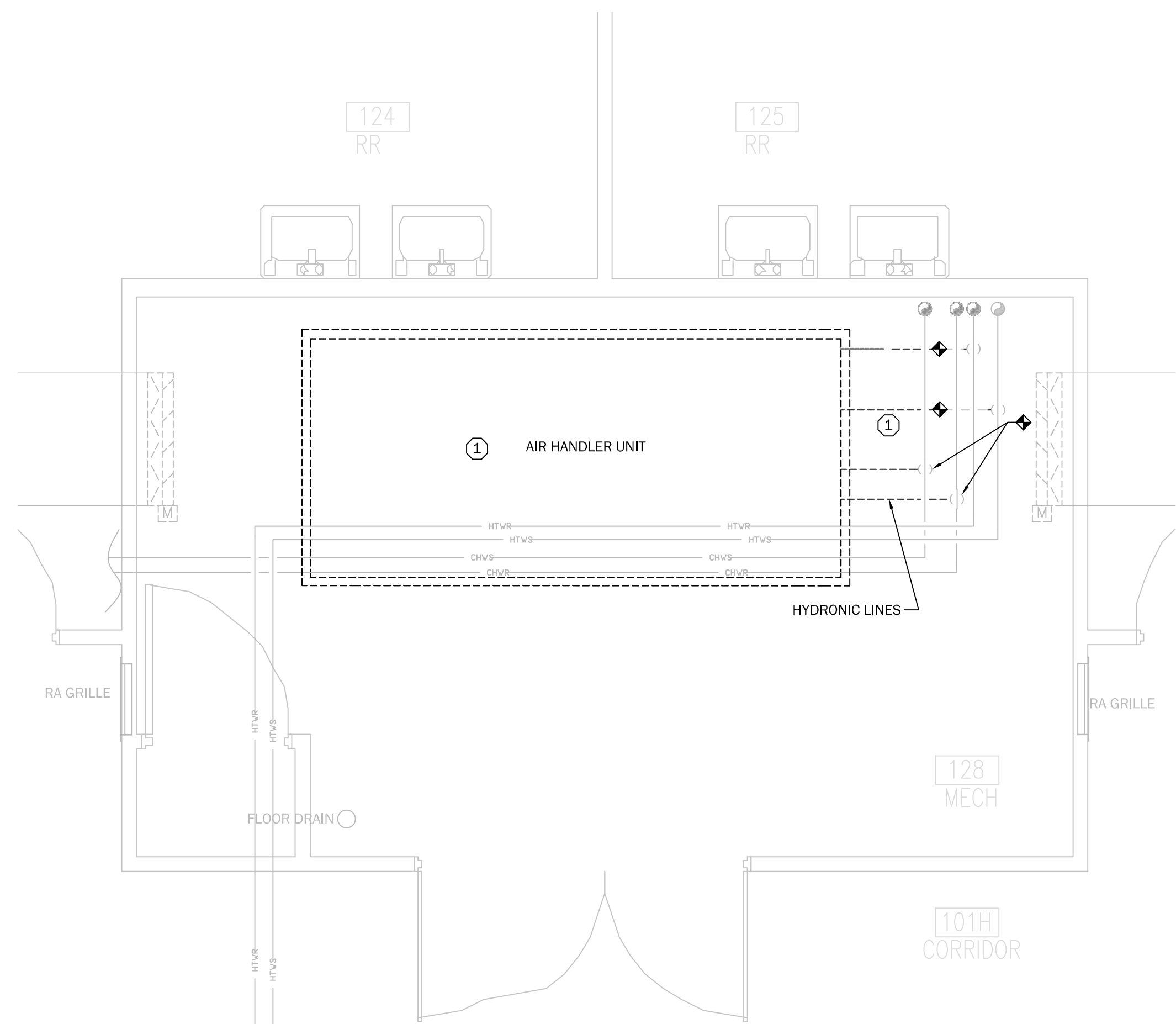
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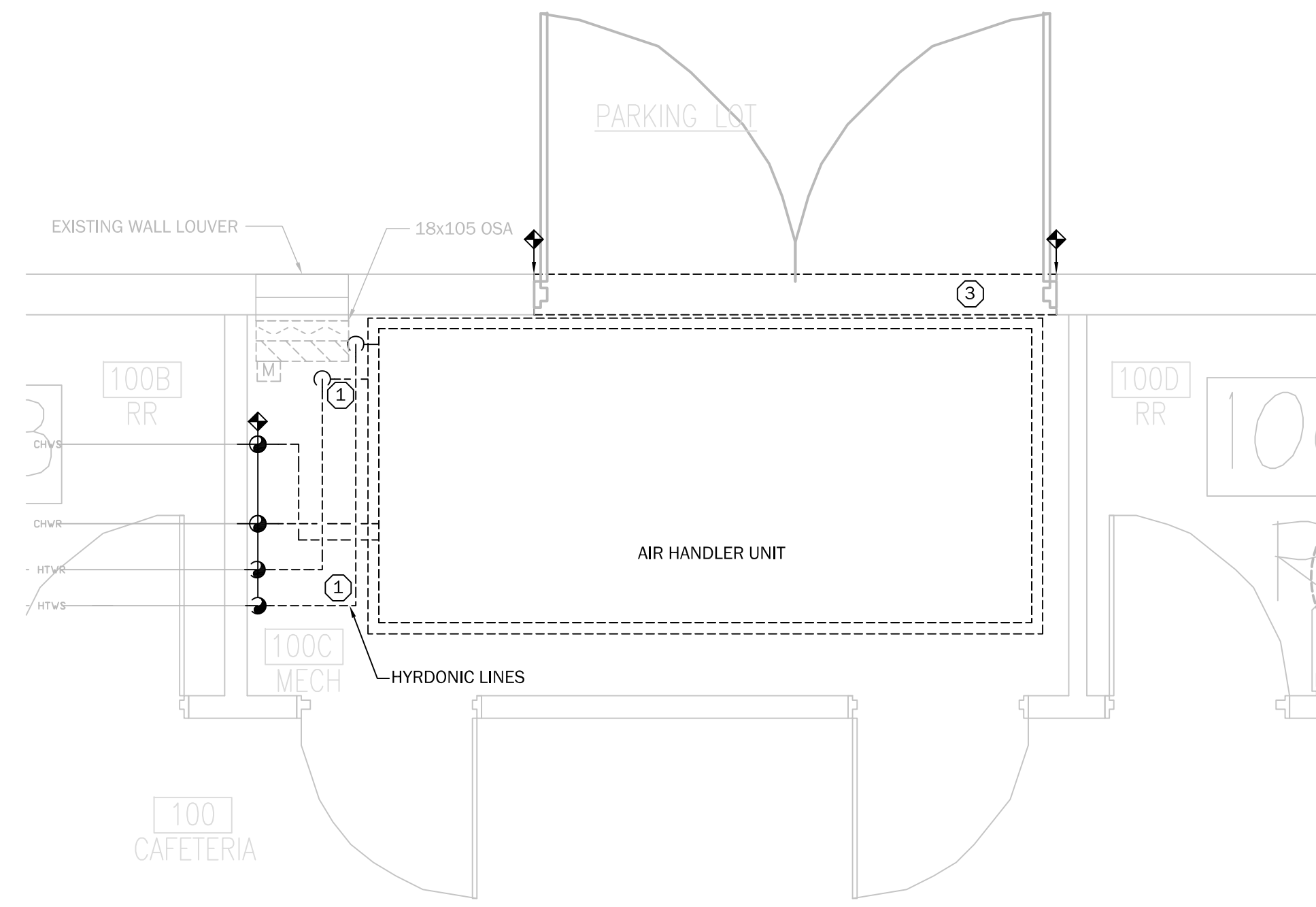
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**HVAC ROOF DEMOLITION
 PLAN**

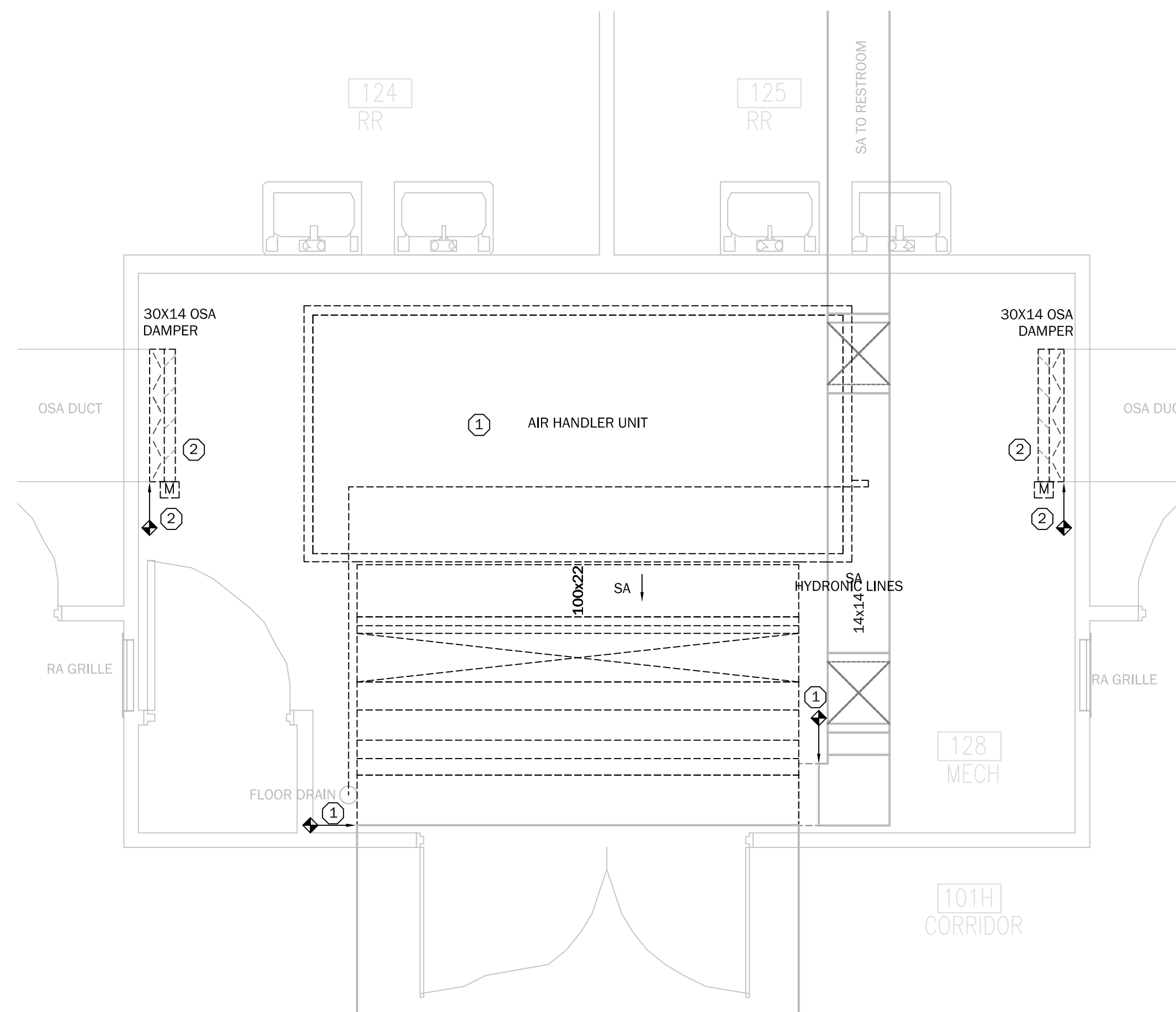
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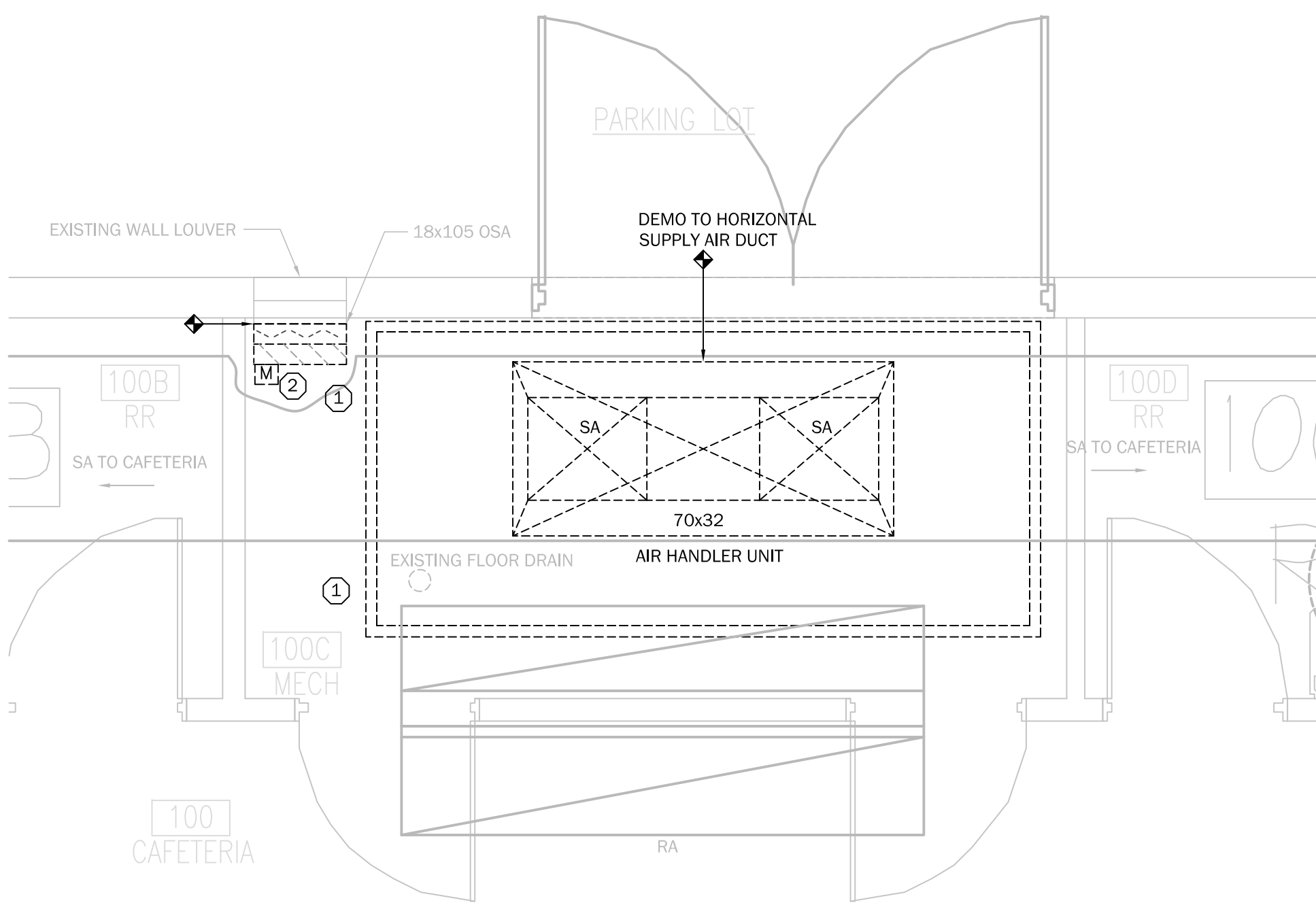
2 AIR HANDLER UNIT HYDRONIC PIPING ENLARGED DEMOLITION PLAN
MD2.1 SCALE: 1/2"=1'



1 AIR HANDLER UNIT HYDRONIC PIPING ENLARGED DEMOLITION PLAN
MD2.1 SCALE: 1/2"=1'



2 AIR HANDLER UNIT DUCTWORK ENLARGED DEMOLITION PLAN
MD2.1 SCALE: 1/2"=1'



1 AIR HANDLER UNIT DUCTWORK ENLARGED DEMOLITION PLAN
MD2.1 SCALE: 1/2"=1'

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KEY NOTES:

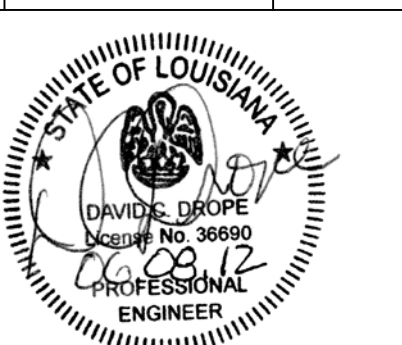
- DEMO EXISTING AIR HANDLER, ASSOCIATED HYDRONIC PIPING AND ASSOCIATED DUCTWORK AS FOLLOWS:
 - DEMO EXISTING AIR HANDLER, DRAIN PANS AND ASSOCIATED ACCESSORIES. CLEAN MECHANICAL ROOM AND RETURN AIR LOUVERS TO MAKE READY FOR NEW EQUIPMENT.
 - EXISTING SUPPLY AND RETURN HYDRONIC SHUT-OFF VALVES SHALL SERVE AS THE DEMOLITION POINT BETWEEN THE SHUT OFF VALVES AND THE AIR HANDLER FOR HYDRONIC PIPING. REUSE SHUT-OFF VALVES AND MODULATING CONTROL VALVES.
 - DEMO DUCTWORK TO POINT OF DEMOLITION AS INDICATED ON DETAIL PLAN. LEAVE SUFFICIENT PROTRUSION EXISTING DUCTWORK TO ALLOW FOR PROPER CONNECTION OF NEW DUCTWORK.
- DEMO EXISTING OSA DAMPERS AND ACTUATORS. DO NOT DEMO EXISTING WALL LOUVER OR WALL SLEEVE. NEW DAMPER SHALL MOUNT TO EXISTING WALL SLEEVE.
- DEMO WALL STRUCTURE FOR NEW DOOR OPENING IN EXTERIOR WALL. REFER TO STRUCTURAL PLANS PRIOR TO DEMOLITION.



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NEW ORLEANS, LA 70125

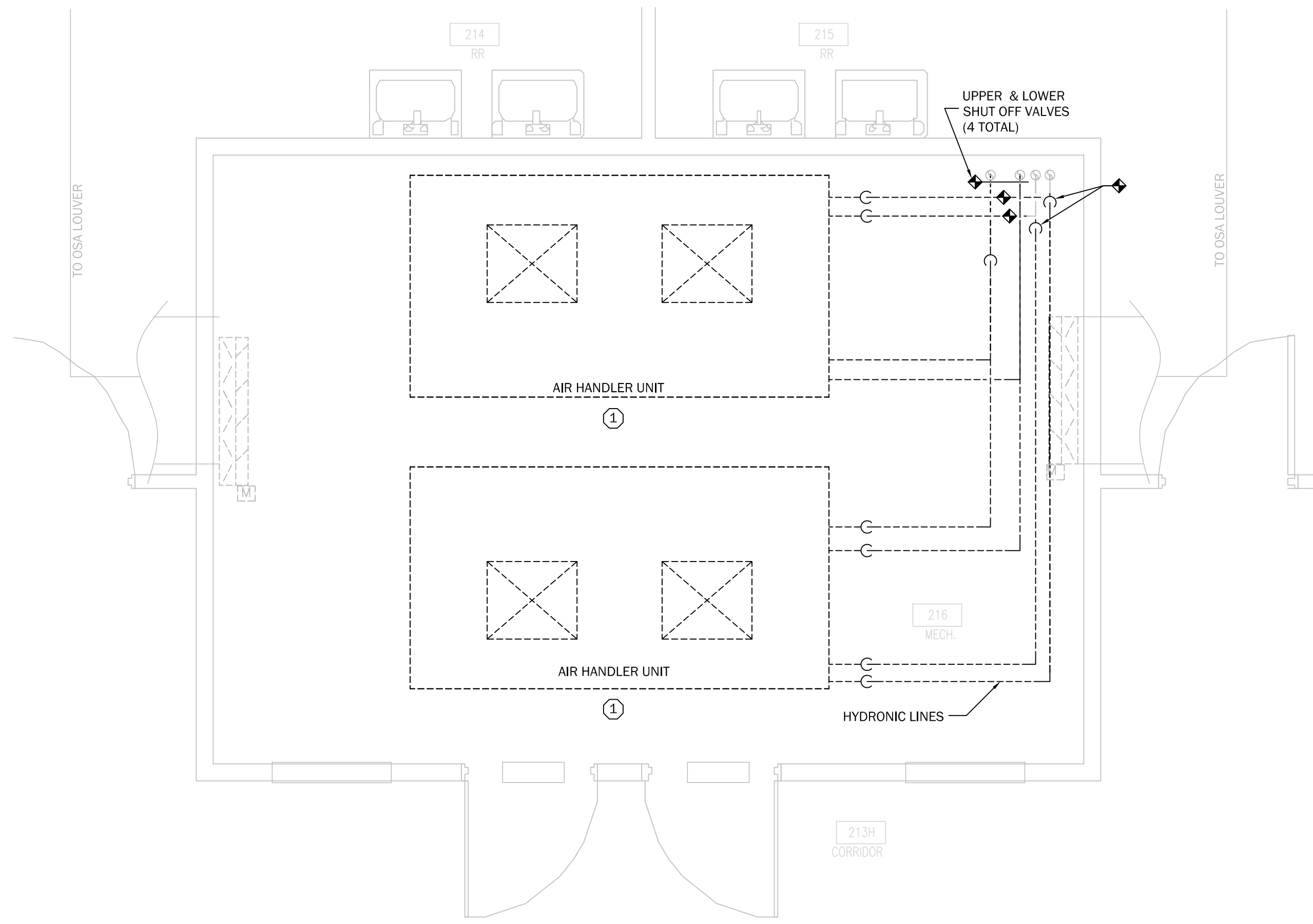
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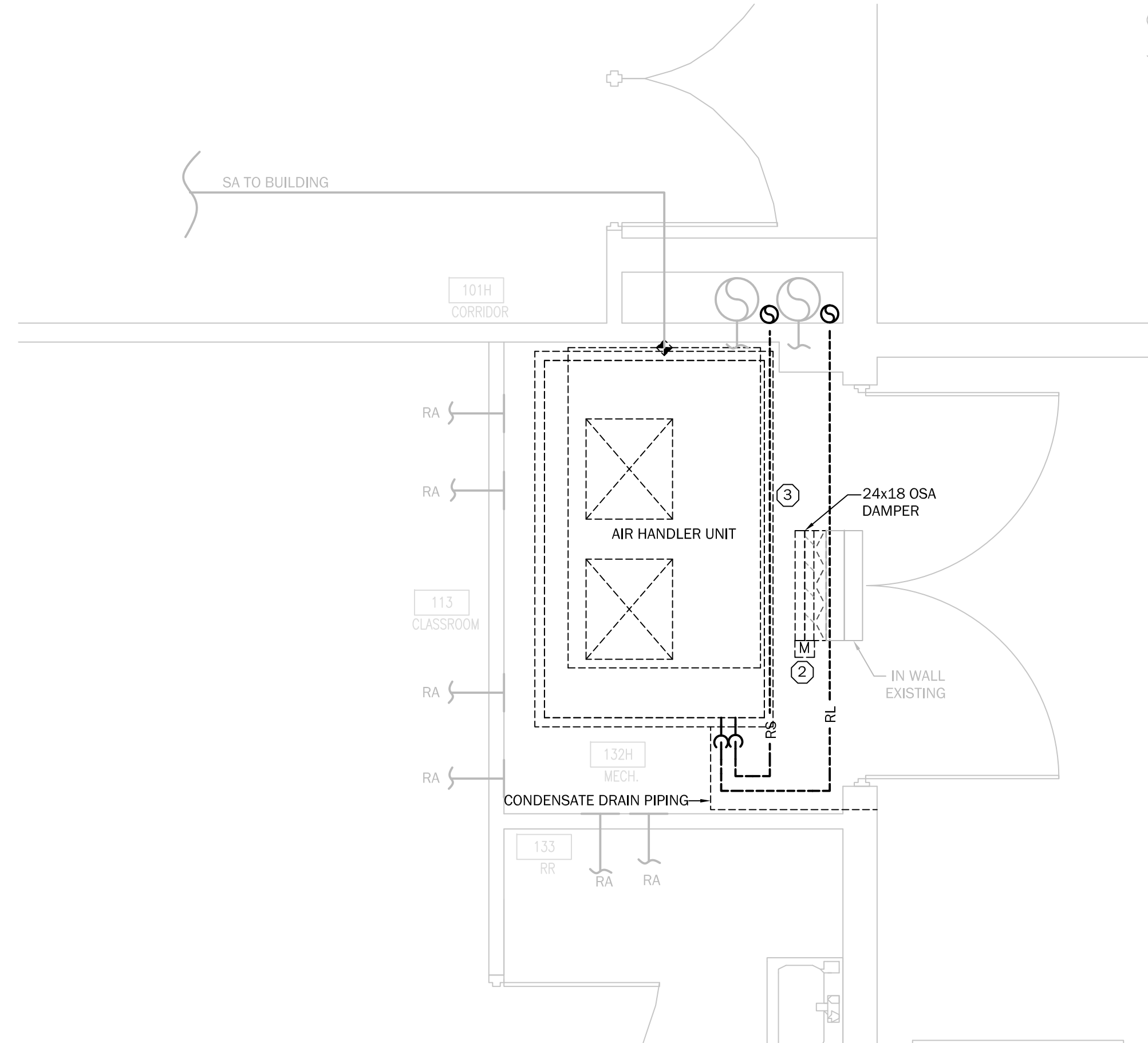
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HVAC ENLARGED
DEMOLITION PLANS

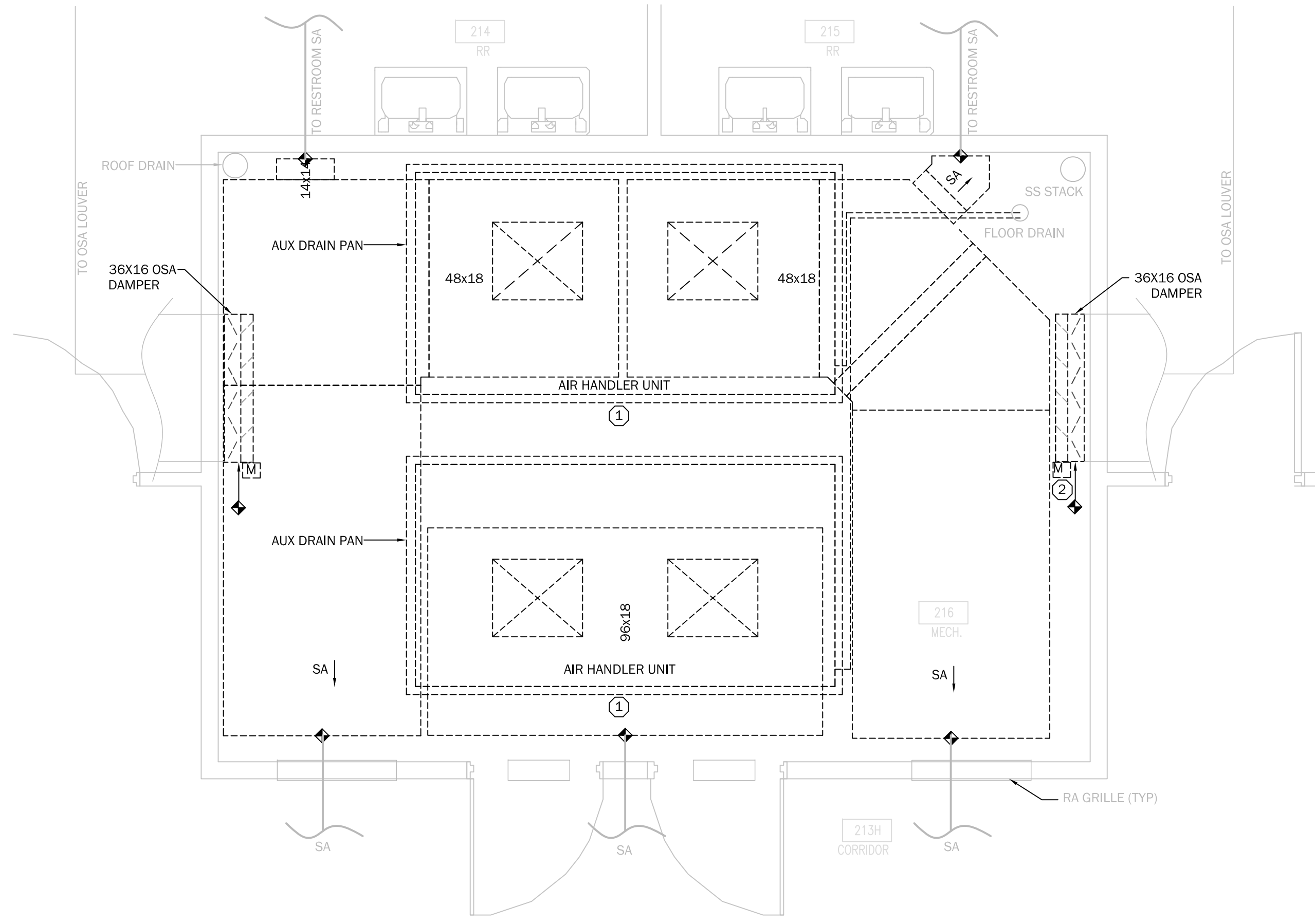
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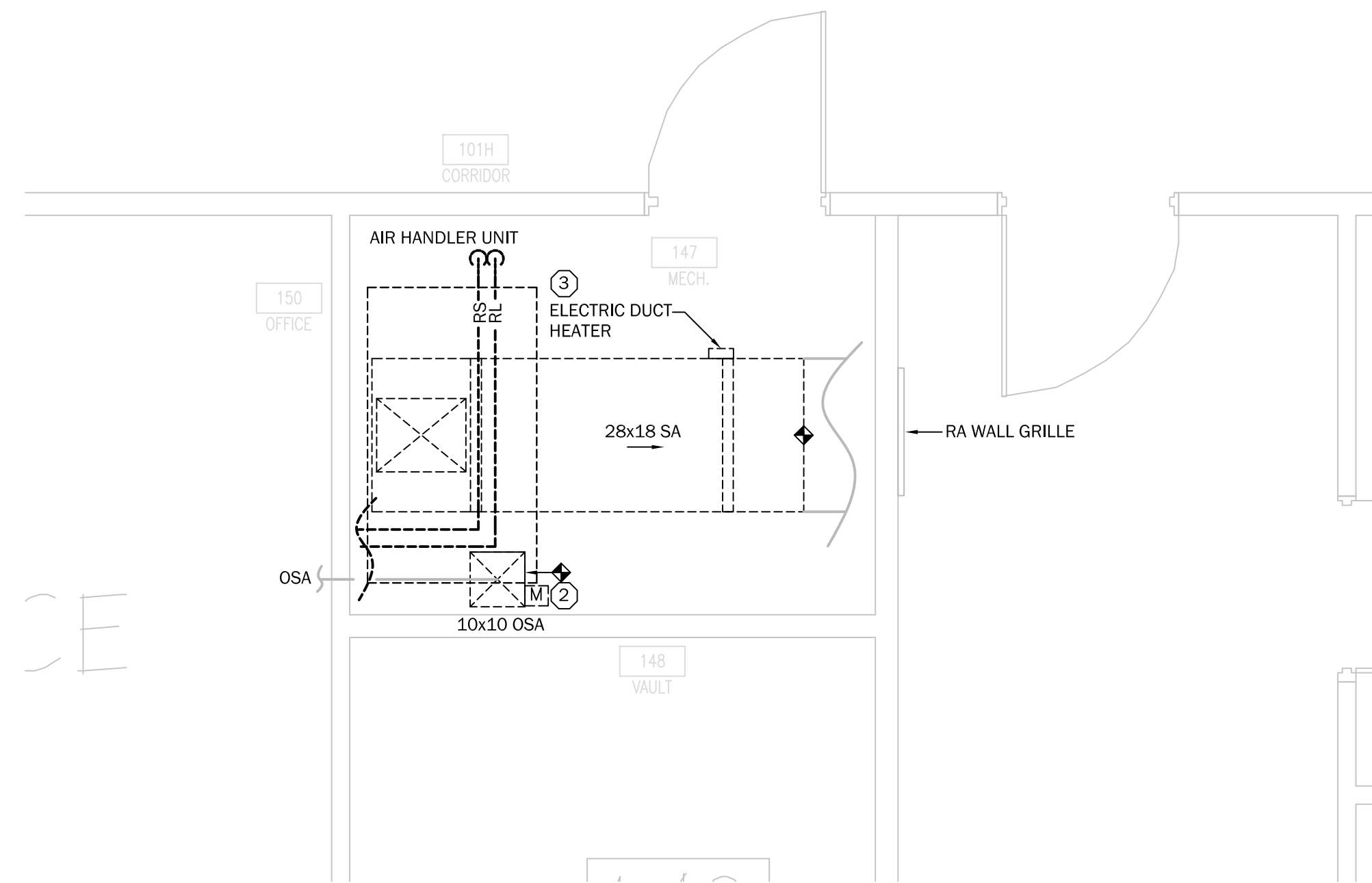
3 AIR HANDLER UNIT HYDRONIC PIPING ENLARGED DEMOLITION PLAN
MD2.2 SCALE: 1/2"=1'



1 AIR HANDLER UNIT DUCTWORK ENLARGED DEMOLITION PLAN
MD2.2 SCALE: 1/2"=1'



3 AIR HANDLER UNIT DUCTWORK ENLARGED DEMOLITION PLAN
MD2.2 SCALE: 1/2"=1'



2 AIR HANDLER UNIT DUCTWORK ENLARGED DEMOLITION PLAN
MD2.2 SCALE: 1/2"=1'

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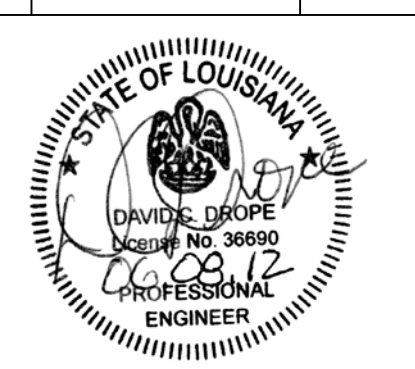
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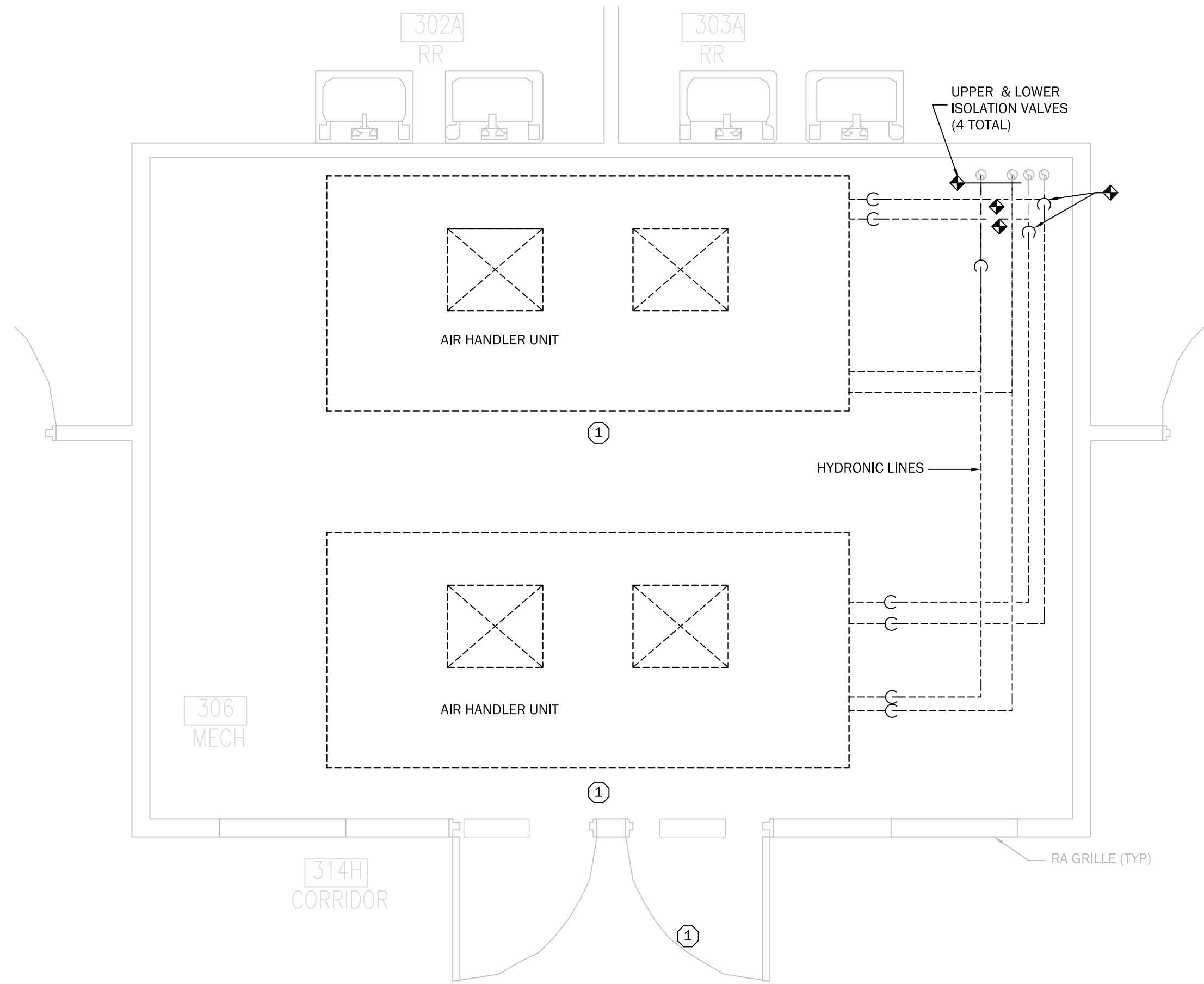
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NO.	REMARKS	DATE



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DRAWING TITLE:

HVAC ENLARGED
DEMOLITION PLANS

SHEET NUMBER:
MD2.2



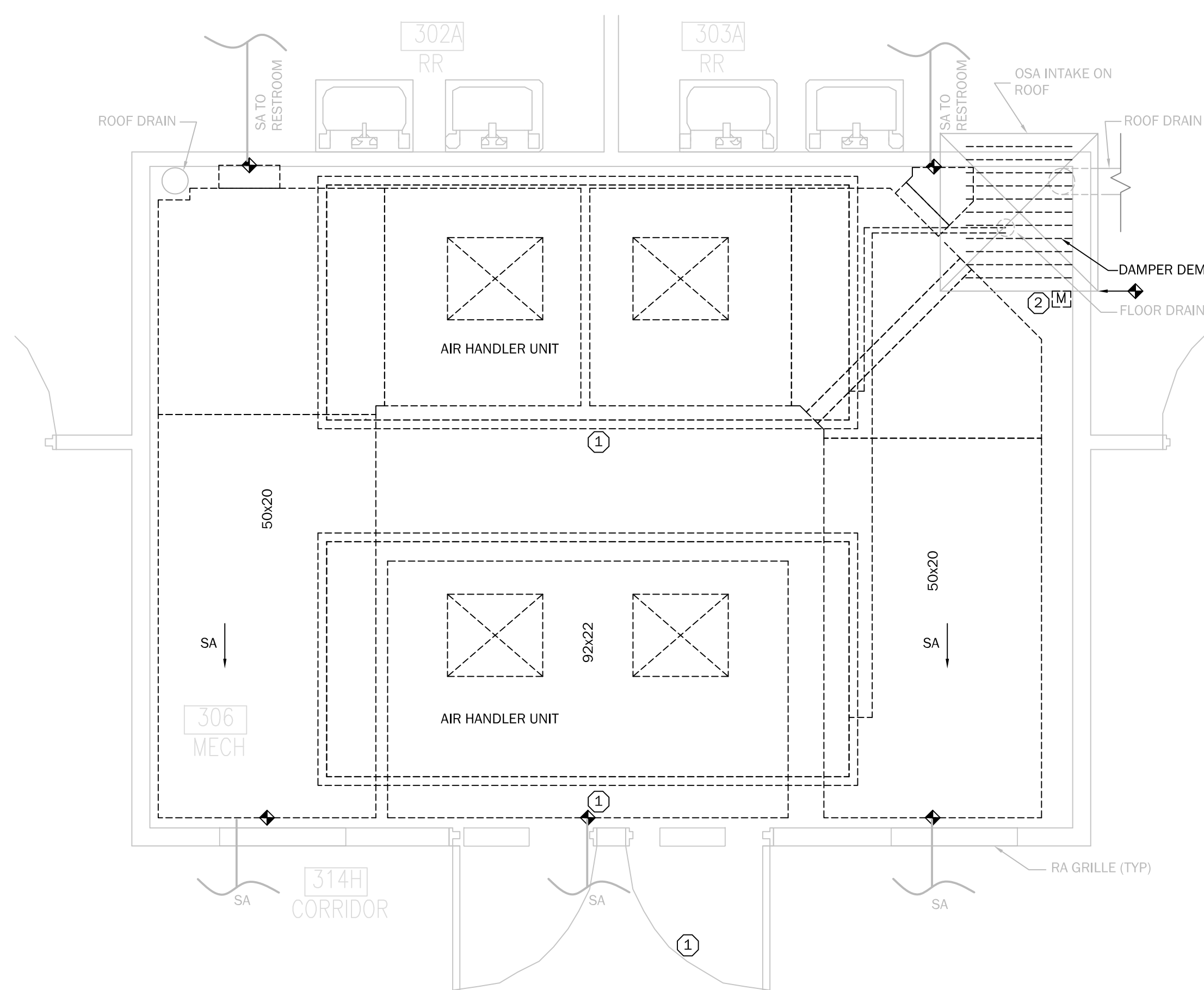
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KEY NOTES:

- DEMO EXISTING AIR HANDLER, ASSOCIATED HYDRONIC PIPING AND ASSOCIATED DUCTWORK AS FOLLOWS:
 - DEMO EXISTING AIR HANDLER, DRAIN PANS AND ASSOCIATED ACCESSORIES. CLEAN MECHANICAL ROOM AND RETURN AIR LOUVERS TO MAKE READY FOR NEW EQUIPMENT.
 - EXISTING SUPPLY AND RETURN HYDRONIC SHUT-OFF VALVES SHALL SERVE AS THE DEMOLITION POINT BETWEEN THE SHUT OFF VALVES AND THE AIR HANDLER FOR HYDRONIC PIPING. REUSE SHUT-OFF VALVES AND MODULATING CONTROL VALVES.
 - DEMO DUCTWORK TO POINT OF DEMOLITION AS INDICATED ON DETAIL PLAN. LEAVE SUFFICIENT PROTRUSION EXISTING DUCTWORK TO ALLOW FOR PROPER CONNECTION OF NEW DUCTWORK.
- DEMO EXISTING OSA DAMPER AND ACTUATOR. DO NOT DEMO EXISTING WALL LOUVER OR WALL SLEEVE. NEW DAMPER SHALL MOUNT TO EXISTING WALL SLEEVE.

1 MD2.3 AHU-4&5 HYDRONIC PIPING ENLARGED DEMOLITION PLAN SCALE: 1/2"=1'



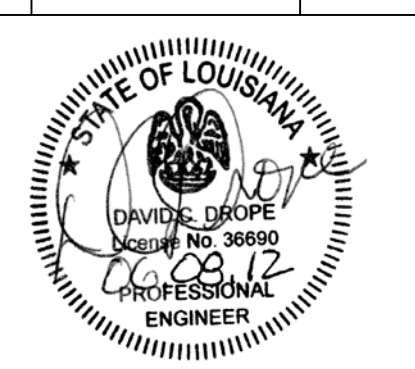
1 MD2.3 AHU-4&5 DUCTWORK ENLARGED DEMOLITION PLAN SCALE: 1/2"=1'



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AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
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DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: CDH SCALE: 1/2"=1'
DESIGNED BY: DCD DATE: JUNE 08, 2012
CHECKED BY: DCD PROJECT: 2011.0876.0001
PATH NAME:
DRAWING TITLE:

HVAC ENLARGED
DEMOLITION PLANS

SHEET NUMBER:
MD2.3

**AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125**

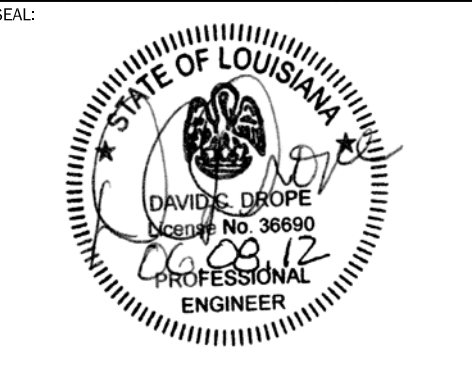
ABBREVIATIONS	
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFS	AIR FLOW STATION
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AHU	AIR HANDLING UNIT
BOP	BOTTOM OF PIPE
BFV	BUTTERFLY VALVE
BFP	BACKFLOW PREVENTER
BAS	BUILDING AUTOMATION SYSTEM
BVU	BUILDING VENTILATION UNIT
CFM	CUBIC FEET PER MINUTE
COMBN	COMBINATION
COMBU	COMBUSTION
COND	AIR CONDITIONING CONDENSATE
DI	DIGITAL INPUT
DN	DOWN
DO	DIGITAL OUTPUT
DXC	DIRECT EXPANSION COIL
EA	EXHAUST AIR
EMS	ENERGY MANAGEMENT SYSTEM
FD	FIRE DAMPER
FS/D	FIRE & SMOKE DAMPER
FWE	FURNISHED WITH EQUIPMENT
GPM	GALLONS PER MINUTE
GF	GAS FURNACE
IAW	IN ACCORDANCE WITH
LL	LIQUID LINE
MFG	MANUFACTURER
MIN	MINIMUM
MUW	MAKE-UP WATER
MVD	MOTORIZED VOLUME DAMPER
NG	NATURAL GAS
OFE	OWNER FURNISHED EQUIPMENT
OSA	OUTSIDE AIR
PLBG	PLUMBING
PTAC	PACKAGED THRU-WALL AIR CONDITIONER
RA	RETURN AIR
REFRIG	REFRIGERANT
SL	SUCTION LINE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SD	SUCTION DIFFUSER
STM	STEAM
SYS	SYSTEM
TDV	TRIPLE DUTY VALVE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
VD	MANUAL VOLUME DAMPER
VVT	VARIABLE VOLUME TERMINAL

CONTROL SYMBOL LEGEND	
	STATIC AIR OR WATER PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	FREEZESTAT, MANUAL RESET
	VARIABLE FREQUENCY DRIVE
	VOLUME PROBE AND TRANSMITTER, AIR FLOW MEASURING
	SMOKE DETECTOR
	ELECTRIC ACTUATOR
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	CURRENT SENSING RELAY
	MOTOR STARTER
	FIRE ALARM SYSTEM
	FREEZE STAT
	AIR FLOW STATION

PIPING SYMBOL LEGEND	
	BALL VALVE
	BALANCING VALVE WITH PRESSURE TAPS
	DRAIN VALVE
	GATE VALVE
	THREE WAY
	UNION
	PRESSURE/TEMPERATURE TEST PORT
	AUTOMATIC AIR VENT
	GLOBE VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE WITH MOTORIZED OPERATOR
	CHECK VALVE
	REDUCED PRESSURE BACK-FLOW PREVENTOR
	PRESSURE REDUCING VALVE
	STRAINER WITH BLOW-DOWN VALVE
	FLANGE
	PLUG VALVE
	AUTOFLOW VALVE
	IN-LINE PUMP
	DIAL THERMOMETER
	PRESSURE GAUGE WITH GAUGE COCK
	RISING SCALE THERMOMETER WITH THERMOMETER WELL
	PIPE ELBOW
	PIPE ELBOW DOWN
	TEE
	TEE DOWN
	CONDENSATE DRAIN (INSULATE PER SPECIFICATIONS)
	REFRIGERANT SUCTION (INSULATE PER SPECIFICATIONS)
	REFRIGERANT LIQUID
	NATURAL GAS

HVAC SYMBOL LEGEND	
	DUCT RUNOUT TO AIR DISTRIBUTION, MAXIMUM FLEX DUCT LENGTH IS 5'-0", PROPERLY SUPPORTED.
	END CAP
	MANUAL DAMPER
	90 DEG. MITERED ELBOW W/ TURNING VANES
	90 DEG. ELBOW
	45 DEG. BRANCH TAP
	CONICAL TAKEOFF
	CONCENTRIC DUCT REDUCER
	SQUARE TO ROUND CONCENTRIC REDUCER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	90 DEG. ELBOW UP
	90 DEG. ELBOW DOWN
	CEILING DIFFUSER
	CEILING DIFFUSER, 1 WAY BLOW
	CEILING DIFFUSER, 2 WAY BLOW
	CEILING DIFFUSER, 2 WAY CORNER BLOW
	CEILING DIFFUSER, 3 WAY BLOW
	CEILING RETURN GRILLE
	CEILING EXHAUST GRILLE
	DIFFUSER BELOW DUCT
	INTERNALLY LINED DUCT
	EXTERNALLY WRAPPED DUCT
	SPACE HUMIDISTAT
	SPACE THERMOSTAT
	SPACE TEMPERATURE SENSOR
	SPACE HUMIDITY SENSOR
	PRESSURE SENSOR
	DUCT MOUNTED SMOKE DETECTOR
	AUTOMATIC TEMPERATURE CONTROL PANEL
	ENERGY MANAGEMENT SYSTEM
	SPACE AIR PRESSURE RELATIONSHIP INDICATES QUANTITY AND DIRECTION OF AIR FLOW
	BACKDRAFT DAMPER, COUNTER-BALANCED
	BACKDRAFT DAMPER, MANUAL
	NEW CONNECTION TO EXISTING
	NEW
	EXISTING
	LIMITS OF DEMOLITION
	DEMO
	DOMESTIC COLD WATER SUPPLY
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC HOT WATER RETURN
	HEATING WATER SUPPLY
	HEATING WATER RETURN

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NO.	REMARKS	DATE



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HVAC GENERAL NOTES,
ABBREVIATIONS, &
LEGENDS

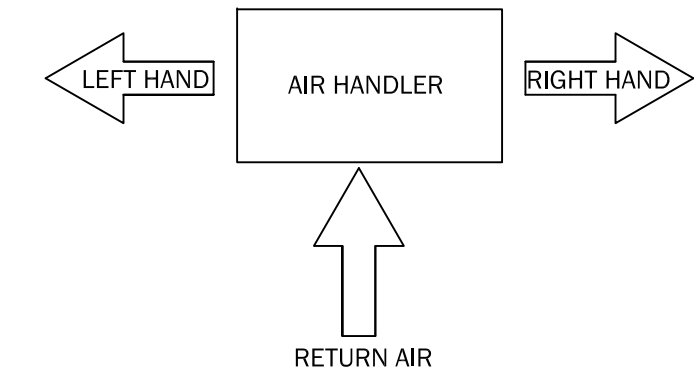
SHEET NUMBER:
MO.1

POWER VENTILATOR SCHEDULE															
MARK	MFG	MOD NO	SERVES	CFM	ESP	HP	VOLT / PH	RPM	FRPM	SONES	MOUNTING	FAN TYPE	DRIVE	WT (LBS)	REMARKS
EF-1	GREENHECK	G-097-B	134 RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-2	GREENHECK	G-097-B	133 RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-3	GREENHECK	G-097-B	130 RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-4	GREENHECK	G-097-B	129 RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-5	GREENHECK	G-097-B	141 RR	100	0.20	1/6	115 / 1	1140	797	2.3	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-6	GREENHECK	G-097-B	140 RR	100	0.20	1/6	115 / 1	1140	797	2.3	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-7	GREENHECK	G-097-B	145B RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-8	GREENHECK	G-095-E	122 STOR	100	0.13	1/30	115 / 1	1050	651	0.7	ROOF	CENTRIF	DIRECT	23	1,2,3,4,5,6,7,8,9
EF-9	GREENHECK	G-065-D	120 RR	70	0.13	1/30	115 / 1	1550	933	0.9	ROOF	CENTRIF	DIRECT	33	1,2,3,4,5,6,7,8,9
EF-10	GREENHECK	G-065-D	119 RR	70	0.13	1/30	115 / 1	1550	933	0.9	ROOF	CENTRIF	DIRECT	33	1,2,3,4,5,6,7,8,9
EF-11	GREENHECK	G-060-D	110 RR	50	0.13	1/60	115 / 1	1550	966	1.1	ROOF	CENTRIF	DIRECT	32	1,2,3,4,5,6,7,8,9
EF-12	GREENHECK	G-095-E	108 STOR	150	0.13	1/30	115 / 1	1050	666	0.8	ROOF	CENTRIF	DIRECT	40	1,2,3,4,5,6,7,8,9
EF-13	GREENHECK	G-060-D	100D RR	50	0.13	1/60	115 / 1	1550	966	1.1	ROOF	CENTRIF	DIRECT	32	1,2,3,4,5,6,7,8,9
EF-14	GREENHECK	G-060-D	100B RR	50	0.13	1/60	115 / 1	1550	966	1.1	ROOF	CENTRIF	DIRECT	32	1,2,3,4,5,6,7,8,9
EF-15	GREENHECK	G-097-B	209A RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-16	GREENHECK	G-097-B	209B RR	50	0.20	1/6	115 / 1	1140	695	1.6	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9
EF-17	GREENHECK	G-060-D	318 RR	50	0.13	1/60	115 / 1	1550	966	1.1	ROOF	CENTRIF	DIRECT	32	1,2,3,4,5,6,7,8,9
EF-18	GREENHECK	G-060-D	319 RR	50	0.13	1/60	115 / 1	1550	966	1.1	ROOF	CENTRIF	DIRECT	32	1,2,3,4,5,6,7,8,9
EF-19	GREENHECK	G-123-C	125 RR,215 RR,303A RR	650	0.20	1/8	115 / 1	860	733	4.2	ROOF	CENTRIF	DIRECT	71	1,2,3,4,5,6,7,8,9
EF-20	GREENHECK	G-123-C	124 RR,214 RR,302A RR	650	0.20	1/8	115 / 1	860	733	4.2	ROOF	CENTRIF	DIRECT	71	1,2,3,4,5,6,7,8,9
EF-21	GREENHECK	G-097-B	212B CUST,312B CUST	125	0.20	1/6	115 / 1	1140	877	2.9	ROOF	CENTRIF	DIRECT	68	1,2,3,4,5,6,7,8,9

- FACTORY MOUNTED SWITCH, NEMA-1, TOGGLE, JUNCTION BOX MOUNTED AND WIRED
- MOTOR TO HAVE INTERNAL THERMAL OVERLOAD PROTECTION
- OPEN DRIP PROOF MOTOR
- MOTOR VIBRATION ISOLATION
- ROOF CURB, GALVANIZED, WOOD NAILER, 12" HIGH ABOVE FINISHED ROOF
- DOWNBLAST WITH ALUMINUM HOUSING AND BIRDSCREEN
- GRAVITY BACKDRAFT DAMPER
- SOLID STATE SPEED CONTROLLER
- EXHAUST FAN MUST MOUNT TO EXISTING ROOF OPENING OR CONTRACTOR TO MODIFY AT NO COST TO OWNER

CHILLED/HEATING WATER AIR HANDLER SCHEDULE																						
MARK	MFG	MOD NO	SUPPLY FAN			OSA		COOLING COIL				HEATING COIL			ELECTRICAL			MAX UNIT DIMENSIONS (IN)			REMARKS	
			CFM	ESP	HP	MIN	MAX	MBH	GPM	EDB	EWB	LDB	LWB	MBH	GPM	EAT	LAT	VOLTS / PH / FLA	H	W		D
AHU-1	TEMTRON	WF-DV-32	16,200	1.0	7.5	450	2,250	615	103	80.0	67.0	55.0	54.5	260.0	26.0	70.0	84.9	480 / 3 / 11.0	97	125	55	1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17
AHU-2	TEMTRON	WF-DH-24	12,000	1.0	5	350	2,100	495	83	80.0	67.0	55.0	54.5	225.0	22.5	70.0	87.4	480 / 3 / 7.6	97	125	55	1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17
AHU-3	TEMTRON	WF-DH-24	12,000	1.0	5	350	2,100	495	83	80.0	67.0	55.0	54.5	190.0	19.0	70.0	84.7	480 / 3 / 7.6	97	125	55	1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17
AHU-4	TEMTRON	WF-DV-32	14,900	1.0	7.5	350	2,700	560	93	80.0	67.0	55.0	54.5	300.0	30.0	70.0	88.6	480 / 3 / 11.0	97	125	55	1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17
AHU-5	TEMTRON	WF-DV-32	15,500	1.0	7.5	350	2,700	610	102	80.0	67.0	55.0	54.5	280.0	28.0	70.0	86.7	480 / 3 / 11.0	97	125	55	1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17
AHU-6	TEMTRON	WF-DV-32	14,500	1.0	7.5	350	2,500	650	108	80.0	67.0	55.0	54.5	390.0	39.0	70.0	94.9	480 / 3 / 11.0	97	125	55	1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17

- INDOOR AIR HANDLER, VERTICAL DRAW THROUGH, DOUBLE WALL CONSTRUCTION
- PROVIDE STAINLESS STEEL AUXILIARY DRAIN PAN, SIZE NO LESS THAN TWO INCHES LARGER THAN UNIT PERIMETER FOOTPRINT
- PROVIDE AUXILIARY DRAIN PAN MOISTURE PUCK FOR UNIT SHUTDOWN
- FACTORY INSTALLED INTERNAL STAINLESS STEEL CONDENSATE DRAIN PAN
- PROVIDE ONE (1) INCH NEOPRENE VIBRATION ISOLATION PADS AT CORNER UNIT SUPPORTS
- INTERNAL FAN AND MOTOR VIBRATION ISOLATION, 2" (MIN) DEFLECTION
- FLAT FILTER RACK, 2" (MERV 8) PLEATED MEDIA, SIDE LOAD, COIL CONNECTION END
- HOT WATER HEATING COIL:
EWT - 180 F MAX WATER PD - 15.0 FT H2O
LWT - 160 F MAX AIR PD - 0.35 IN WC
- CHILLED WATER COOLING COIL:
EWT - 45 F MAX WATER PD - 10.0 FT H2O
LWT - 57 F MAX AIR PD - 1.0 IN WC
- SUPPLY FAN - FORWARD CURVED (FC) CENTRIFUGAL FAN, DOUBLE WIDTH, DOUBLE INLET
- OPEN DRIP-PROOF MOTOR, ADJUSTABLE PITCH DRIVES WITH 1.5 SERVICE FACTOR
- MECHANICAL CONTRACTOR TO INSTALL DUCT MOUNTED SUPPLY AIR & UNIT MOUNTED RETURN AIR SMOKE DETECTORS (COMPATIBLE WITH FIRE ALARM SYSTEM); CONNECT TO EXISTING CONTROL WIRING AND FIRE ALARM SYSTEM; ALL UNITS SHALL BE DISABLED ON ACTIVATION OF ANY SMOKE DETECTOR OR BUILDING FIRE ALARM
- FACTORY INSTALLED BACNET COMMUNICATION INTERFACE
- RIGHT HAND COIL CONNECTIONS AND COIL CONDENSATE DRAIN
- LEFT HAND COIL CONNECTIONS AND COIL CONDENSATE DRAIN
- PROVIDE INSULATED COPPER LINE CONDENSATE DRAIN LINE TO FLOOR DRAIN PER PLANS
- RATINGS CERTIFIED IN ACCORDANCE WITH ARI 240



DX SPLIT SYSTEM AIR HANDLER SCHEDULE																		
MARK	MFG	MOD NO	SA	OSA		ESP	HP	COOLING				HEATING	UNIT	MAX UNIT DIMENSIONS (IN)			REMARKS	
				CFM	MIN			MAX	MBH	EDB	EWB			LDB	LWB	VOLT / PH / FLA		H
ACU-1	TEMTRON	WF-DV-12	6100	350	1350	0.75	2	194.1	80.0	67.0	55.5	54.0	DUCT	480 / 3 / 3.4	80	80	55	1,2,3,4,5,6,8,9,10,11,13,14,15,17,18,19
ACU-2	MAGIC AIRE	BVE-40	3300	250	400	0.5	1 1/2	115.0	80.0	67.0	55.5	54.0	DUCT	480 / 3 / 3.0	78	58	36	1,2,3,4,5,7,8,9,10,12,14,15,16,18,19

- COOLING ONLY SPLIT SYSTEM AIR HANDLER, DUCT ELECTRIC RESISTANCE HEAT
- INDOOR AIR HANDLER, VERTICAL DRAW THROUGH, DOUBLE WALL CONSTRUCTION, R-410A
- FACTORY INSTALLED REFRIGERANT COIL AND STAINLESS STEEL CONDENSATE DRAIN PAN
- FACTORY INSTALLED THERMAL EXPANSION VALVE AND EVAPORATOR DEFROST CONTROL
- FIELD INSTALLED ELECTRIC DUCT HEATER WITH SINGLE POINT POWER CONNECTION, SEE PLANS
- FLAT FILTER RACK, 2" (MERV 8) PLEATED MEDIA, FRONT LOAD
- ANGLED FILTER RACK, 2" (MERV 8) PLEATED MEDIA, FRONT LOAD
- FACTORY INSTALLED BACNET COMMUNICATION INTERFACE
- PROVIDE STAINLESS STEEL AUXILIARY DRAIN PAN, SIZE NO LESS THAN TWO INCHES LARGER THAN UNIT PERIMETER FOOTPRINT
- PROVIDE AUXILIARY DRAIN PAN MOISTURE PUCK FOR UNIT SHUTDOWN
- PROVIDE ONE (1) INCH NEOPRENE VIBRATION ISOLATION PADS AT CORNER UNIT SUPPORTS
- PROVIDE EXTERNAL SPRING VIBRATION ISOLATION SUPPORTS, 2" (MIN) DEFLECTION
- INTERNAL FAN AND MOTOR VIBRATION ISOLATION, 2" (MIN) DEFLECTION
- OPEN DRIP-PROOF MOTOR, ADJUSTABLE PITCH DRIVES WITH 1.5 SERVICE FACTOR
- MECHANICAL CONTRACTOR TO INSTALL DUCT MOUNTED SUPPLY AIR & UNIT MOUNTED RETURN AIR SMOKE DETECTORS (COMPATIBLE WITH FIRE ALARM SYSTEM); CONNECT TO EXISTING CONTROL WIRING AND FIRE ALARM SYSTEM; ALL UNITS SHALL BE DISABLED ON ACTIVATION OF ANY SMOKE DETECTOR OR BUILDING FIRE ALARM
- FRONT REFRIGERANT LINE CONNECTIONS AND COIL CONDENSATE DRAIN
- LEFT HAND REFRIGERANT LINE CONNECTIONS AND COIL CONDENSATE DRAIN
- PROVIDE INSULATED COPPER CONDENSATE DRAIN LINE AND ROUTE PER PLANS
- RATINGS CERTIFIED IN ACCORDANCE WITH ARI 210

ELECTRIC DUCT HEATER												
MARK	MFG	MOD NO	KW	DUCT SIZE	CFM	EAT (F)	LAT (F)	UNIT			HTR	REMARKS
								VOLTS / PH / FLA	MCA	MOCP	STAGES	
EH-1	DELL	M1-42x18-22.5-480-3-3	22.5	42"W x 18"H	6,100	70	81.6	480 / 3 / 28.3	35.3	45	3	1,2,3,4,5,6,7
EH-2	DELL	M1-28x18-12.5-480-3-2	12.5	28"W x 18"H	3,300	70	81.9	480 / 3 / 15.7	19.6	25	2	1,2,3,4,5,6,7

- OPEN COIL ELECTRIC DUCT HEATER
- SLIP-IN STANDARD MOUNT CONTROL PANEL, CONTROLS SHALL BE BACNET COMPATIBLE
- AIR PRESSURE SWITCH
- CONTROL TRANSFORMER
- FUSED DISCONNECT
- FIELD VERIFY DUCT SIZE, CONTACT ENGINEER IF ACTUAL IS DIFFERENT THAN DESIGN
- MAINTAIN FACE VELOCITY PER MANUFACTURERS RECOMMENDATIONS

CONDENSING UNIT SCHEDULE											
MARK	MFG	MOD NO	UNIT		LINE SIZE (IN)		WT (LBS)	REMARKS			
			MBH	EER	RL	RS					
CU-1	TRANE	TTA240F4	194.1	10.0	480 / 3 / 42.1	49.6	60.0	5/8	1-5/8	818	1,2,3,4,5,6,7,8,9
CU-2	TRANE	TTA120F4	115.0	11.2	480 / 3 / 21.7	24.1	30.0	1/2	1-3/8	393	1,2,3,4,5,6,7,8,9

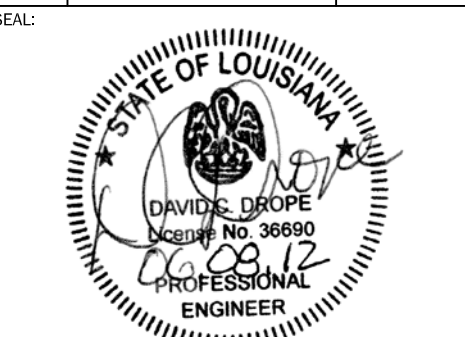
- FACTORY PACKAGED COMPRESSORS / CONDENSING UNIT, UL LISTED FOR OUTDOOR USE
- RATINGS CERTIFIED IN ACCORDANCE WITH ARI 210
- FACTORY CHARGED WITH REFRIGERANT R-410A, DUAL MANIFOLDED SCROLL COMPRESSORS
- COMPRESSORS TO BE EQUIPPED WITH THE FOLLOWING FEATURES:
INTERNAL OVER TEMPERATURE PROTECTION
INTERNAL OVER PRESSURE PROTECTION
THERMOSTATICALLY CONTROLLED CRANKCASE HEATER
AUTOMATIC-RESET, ANTI-CYCLE TIMER
LOW AMBIENT KIT FOR COOLING OPERATION
- PROPERLY SIZED REFRIGERANT ACCESSORIES TO INCLUDE:
THERMAL EXPANSION VALVE REFRIGERANT METERING
LIQUID LINE SIGHT GLASS / MOISTURE INDICATOR
LIQUID LINE FILTER / DRYER
- MAXIMUM OVERCURRENT PROTECTION, HACR CIRCUIT BREAKER
- PROVIDE ADIABATIC PROPORTIONING REFRIGERANT (APR) CONTROL VALVE ON FIRST STAGE OPERATION
- FACTORY INSTALLED HAIL GUARDS
- FACTORY INSTALLED BACNET COMMUNICATION INTERFACE



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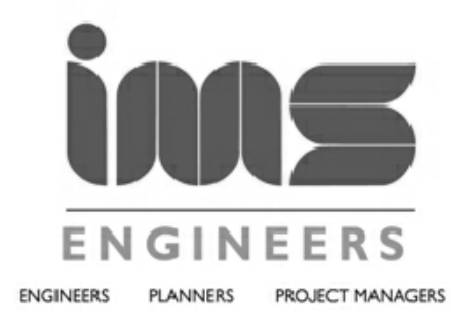
DRAWING REVISIONS		
NO.	REMARKS	DATE



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DESIGNED BY: DSD DATE: JUNE 08, 2012
CHECKED BY: DSD PROJECT: 2011.0876.0001
P&H NAME: DRAWING TITLE:

HVAC SCHEDULES

SHEET NUMBER:
M0.2



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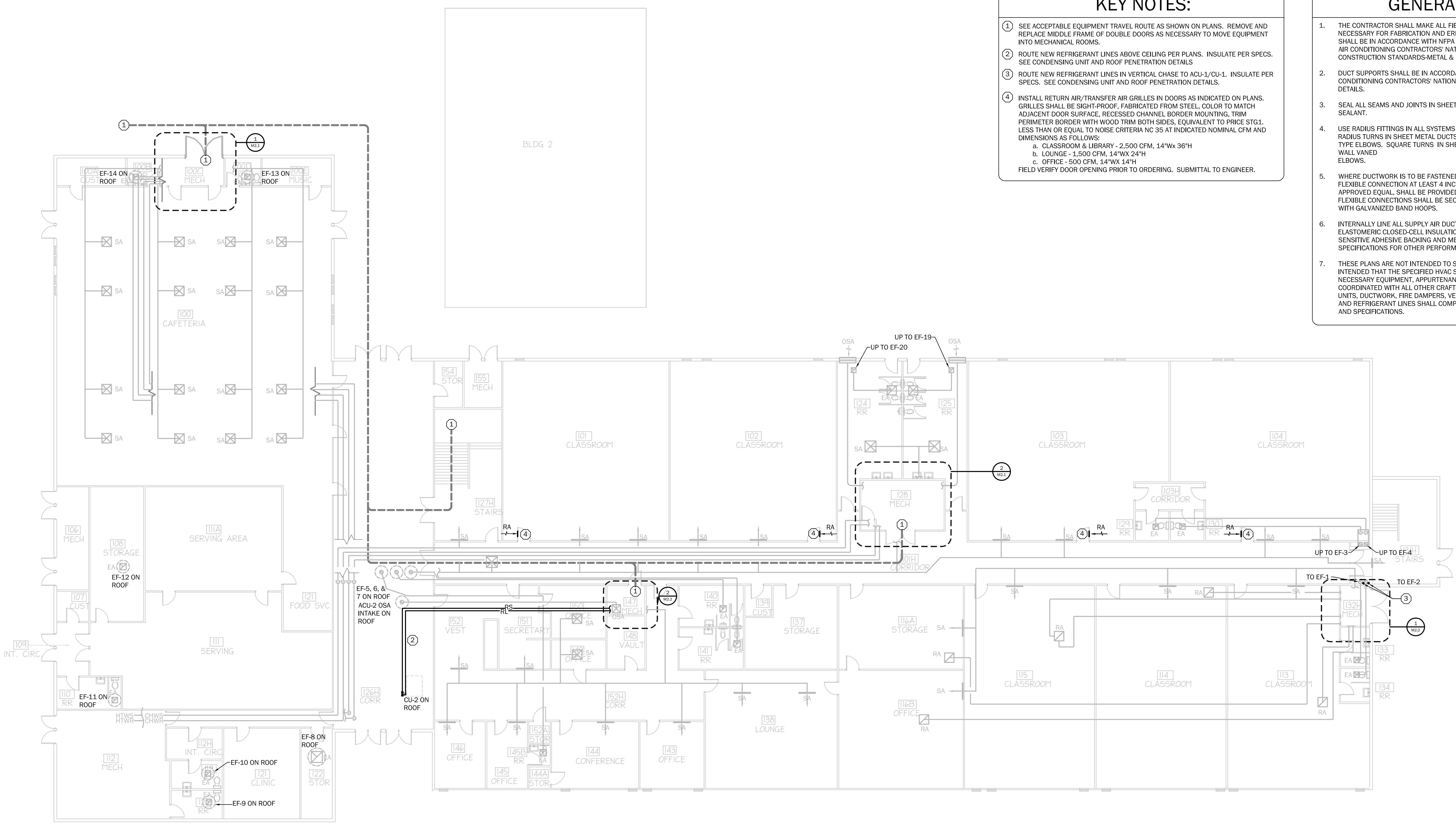
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KEY NOTES:

- ① SEE ACCEPTABLE EQUIPMENT TRAVEL ROUTE AS SHOWN ON PLANS. REMOVE AND REPLACE MIDDLE FRAME OF DOUBLE DOORS AS NECESSARY TO MOVE EQUIPMENT INTO MECHANICAL ROOMS.
- ② ROUTE NEW REFRIGERANT LINES ABOVE CEILING PER PLANS. INSULATE PER SPECS. SEE CONDENSING UNIT AND ROOF PENETRATION DETAILS.
- ③ ROUTE NEW REFRIGERANT LINES IN VERTICAL CHASE TO ACU-1/CU-1. INSULATE PER SPECS. SEE CONDENSING UNIT AND ROOF PENETRATION DETAILS.
- ④ INSTALL RETURN AIR/TRANSFER AIR GRILLES IN DOORS AS INDICATED ON PLANS. GRILLES SHALL BE SIGHT-PROOF, FABRICATED FROM STEEL, COLOR TO MATCH ADJACENT DOOR SURFACE. RECESSED CHANNEL BORDER MOUNTING, TRIM PERIMETER BORDER WITH WOOD TRIM BOTH SIDES, EQUIVALENT TO PRICE STG.1. LESS THAN OR EQUAL TO NOISE CRITERIA NC 35 AT INDICATED NOMINAL CFM AND DIMENSIONS AS FOLLOWS:
 - a. CLASSROOM & LIBRARY - 2,500 CFM, 14"Wx 36"H
 - b. LOUNGE - 1,500 CFM, 14"Wx 24"H
 - c. OFFICE - 500 CFM, 14"Wx 14"H
 FIELD VERIFY DOOR OPENING PRIOR TO ORDERING. SUBMITTAL TO ENGINEER.

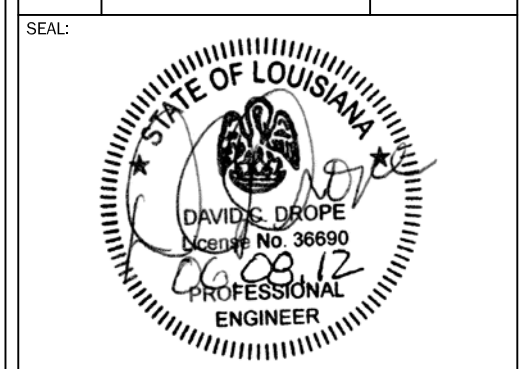
GENERAL NOTES:

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2. DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA-DCS) AND PLAN DETAILS.
3. SEAL ALL SEAMS AND JOINTS IN SHEET METAL DUCTS WITH SOLVENT BASED SEALANT.
4. USE RADIUS FITTINGS IN ALL SYSTEMS UNLESS CONDITIONS PROHIBIT THEIR USE. RADIUS TURNS IN SHEET METAL DUCTS SHALL BE MADE USING STANDARD RADIUS TYPE ELBOWS. SQUARE TURNS IN SHEET METAL DUCTS SHALL HAVE DOUBLE WALL VANED ELBOWS.
5. WHERE DUCTWORK IS TO BE FASTENED TO THE INTAKE OR DISCHARGE OF A FAN, A FLEXIBLE CONNECTION AT LEAST 4 INCHES LONG OF "VENT GLASS" FABRIC, OR APPROVED EQUAL, SHALL BE PROVIDED BETWEEN THE DUCTWORK AND THE FAN. FLEXIBLE CONNECTIONS SHALL BE SECURELY FASTENED TO FAN AND DUCTWORK WITH GALVANIZED BAND HOOPS.
6. INTERNALLY LINE ALL SUPPLY AIR DUCTS AND PLENUMS WITH 1" THICK, ELASTOMERIC CLOSED-CELL INSULATION. LINER SHALL ATTACH WITH PRESSURE SENSITIVE ADHESIVE BACKING AND MECHANICAL FASTENERS. SEE SPECIFICATIONS FOR OTHER PERFORMANCE REQUIREMENTS.
7. THESE PLANS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT THE SPECIFIED HVAC SYSTEM BE PROVIDED COMPLETE WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS AND COMPLETELY COORDINATED WITH ALL OTHER CRAFTS AND DISCIPLINES. INSTALLATION OF HVAC UNITS, DUCTWORK, FIRE DAMPERS, VENT PIPING, FIRE STOPS, CONDENSATE LINES AND REFRIGERANT LINES SHALL COMPLY WITH LOCAL BUILDING CODES, DRAWINGS AND SPECIFICATIONS.



HVAC FIRST FLOOR PLAN
SCALE: 3/32"=1'

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: CDH SCALE: 3/32"=1'
DESIGNED BY: DSD DATE: JUNE 08, 2012
CHECKED BY: DCD PROJECT: 2011.0876.0001
PLOT NAME:
DRAWING TITLE:

HVAC FIRST FLOOR PLAN
SHEET NUMBER:
M1.1

KEY NOTES:

- ① SEE ACCEPTABLE EQUIPMENT TRAVEL ROUTE AS SHOWN ON PLANS. REMOVE AND REPLACE MIDDLE FRAME OF DOUBLE DOORS AS NECESSARY TO MOVE EQUIPMENT INTO MECHANICAL ROOMS.
- ② ROUTE NEW REFRIGERANT LINES IN VERTICAL CHASE TO ACU-1/CU-1. INSULATE PER SPECS. SEE CONDENSING UNIT AND ROOF PENETRATION DETAILS.
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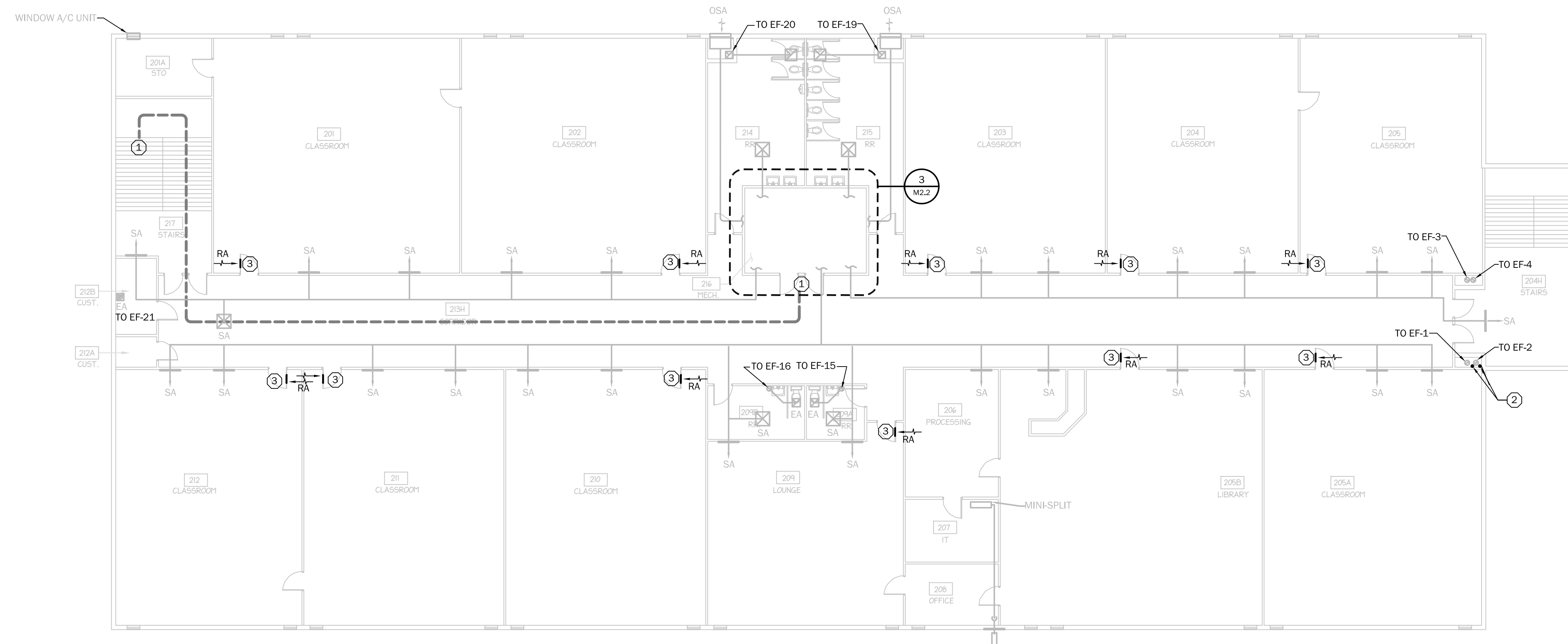
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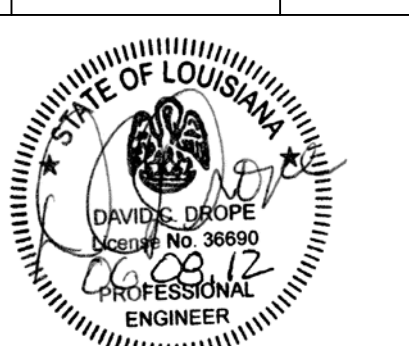
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AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125



HVAC SECOND FLOOR PLAN
SCALE: 3/32"=1'

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: CDH SCALE: 3/32"=1'
DESIGNED BY: DSD DATE: JUNE 08, 2012
CHECKED BY: DCD PROJECT: 2011.0876.0001
PATH NAME:
DRAWING TITLE:

HVAC SECOND FLOOR PLAN

SHEET NUMBER:
M1.2

KEY NOTES:

- ① SEE ACCEPTABLE EQUIPMENT TRAVEL ROUTE AS SHOWN ON PLANS. REMOVE AND REPLACE MIDDLE FRAME OF DOUBLE DOORS AS NECESSARY TO MOVE EQUIPMENT INTO MECHANICAL ROOMS.
- ② ROUTE NEW REFRIGERANT LINES IN VERTICAL CHASE TO ACU-1/CU-1. INSULATE PER SPECS. SEE CONDENSING UNIT AND ROOF PENETRATION DETAILS.
- ③ INSTALL BAROMETRIC RELIEF DAMPER GREENHECK MODEL BR-32 OR EQUIVALENT AT EXISTING LOUVER OPENING. FIELD VERIFY SIZE.
- ④ INSTALL RETURN AIR/TRANSFER AIR GRILLES IN DOORS AS INDICATED ON PLANS. GRILLES SHALL BE SIGHT-PROOF, FABRICATED FROM STEEL, COLOR TO MATCH ADJACENT DOOR SURFACE, RECESSED CHANNEL BORDER MOUNTING, TRIM PERIMETER BORDER WITH WOOD TRIM BOTH SIDES, EQUIVALENT TO PRICE STG1. LESS THAN OR EQUAL TO NOISE CRITERIA NC 35 AT INDICATED NOMINAL CFM AND DIMENSIONS AS FOLLOWS:
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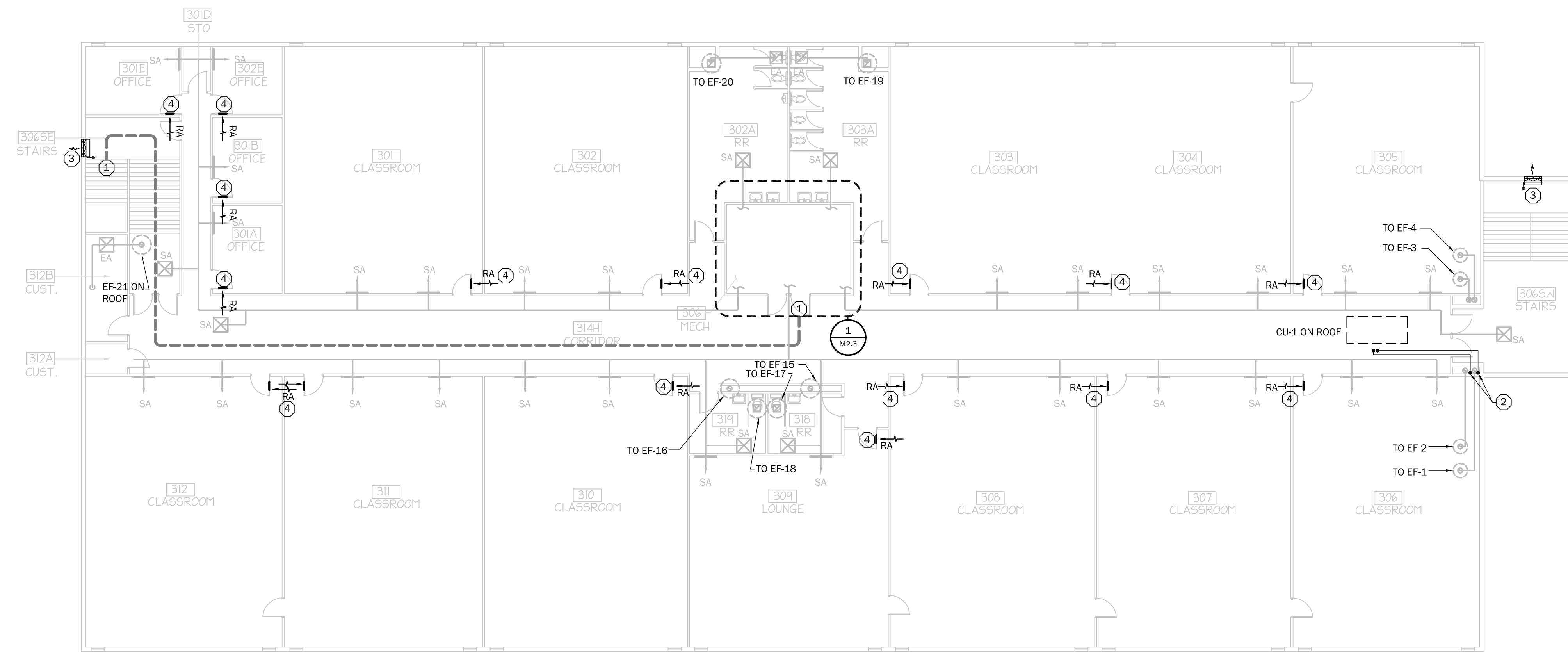
GENERAL NOTES:

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2. DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA-DCS) AND PLAN DETAILS.
3. SEAL ALL SEAMS AND JOINTS IN SHEET METAL DUCTS WITH SOLVENT BASED SEALANT.
4. USE RADIUS FITTINGS IN ALL SYSTEMS UNLESS CONDITIONS PROHIBIT THEIR USE. RADIUS TURNS IN SHEET METAL DUCTS SHALL BE MADE USING STANDARD RADIUS TYPE ELBOWS. SQUARE TURNS IN SHEET METAL DUCTS SHALL HAVE DOUBLE WALL VANED ELBOWS.
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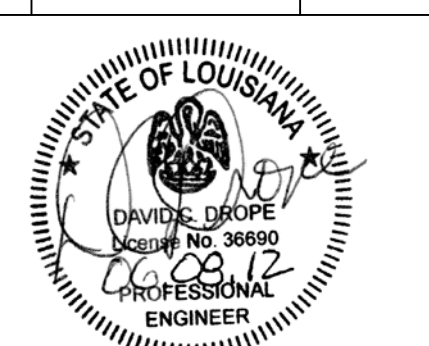
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AHU REPLACEMENT AT SYLVANIE WILLIAMS
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HVAC THIRD FLOOR PLAN
M1.3 SCALE: 3/32"=1'

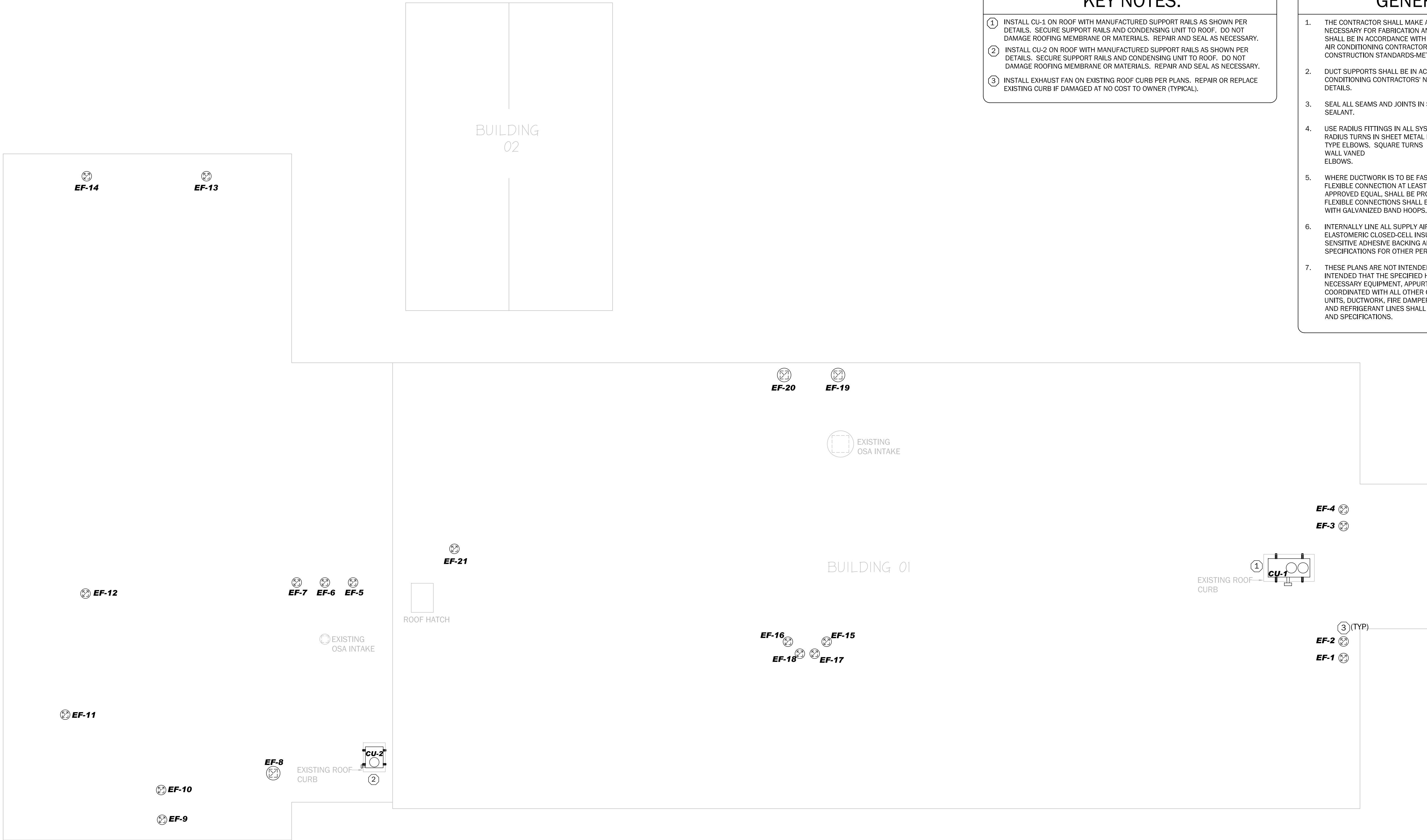
DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: CDH SCALE: 3/32"=1'
DESIGNED BY: DCD DATE: JUNE 08, 2012
CHECKED BY: DCD PROJECT: 2011.0876.0001
P13H NAME:
DRAWING TITLE:

HVAC THIRD FLOOR PLAN

SHEET NUMBER:
M1.3



- KEY NOTES:**
1. INSTALL CU-1 ON ROOF WITH MANUFACTURED SUPPORT RAILS AS SHOWN PER DETAILS. SECURE SUPPORT RAILS AND CONDENSING UNIT TO ROOF. DO NOT DAMAGE ROOFING MEMBRANE OR MATERIALS. REPAIR AND SEAL AS NECESSARY.
 2. INSTALL CU-2 ON ROOF WITH MANUFACTURED SUPPORT RAILS AS SHOWN PER DETAILS. SECURE SUPPORT RAILS AND CONDENSING UNIT TO ROOF. DO NOT DAMAGE ROOFING MEMBRANE OR MATERIALS. REPAIR AND SEAL AS NECESSARY.
 3. INSTALL EXHAUST FAN ON EXISTING ROOF CURB PER PLANS. REPAIR OR REPLACE EXISTING CURB IF DAMAGED AT NO COST TO OWNER (TYPICAL).

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF HVAC DUCTWORK. DUCTWORK SHALL BE IN ACCORDANCE WITH NFPA 90A, NFPA 96, AND THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) HVAC DUCT CONSTRUCTION STANDARDS-METAL & FLEXIBLE.
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ims
ENGINEERS

ENGINEERS PLANNERS PROJECT MANAGERS

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HVAC ROOF PLAN
SCALE: 3/32"=1'

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: CDH SCALE: 3/32"=1'
DESIGNED BY: DCD DATE: JUNE 08, 2012
CHECKED BY: DCD PROJECT: 2011.0876-0001
PATH NAME:
DRAWING TITLE:

HVAC ROOF PLAN

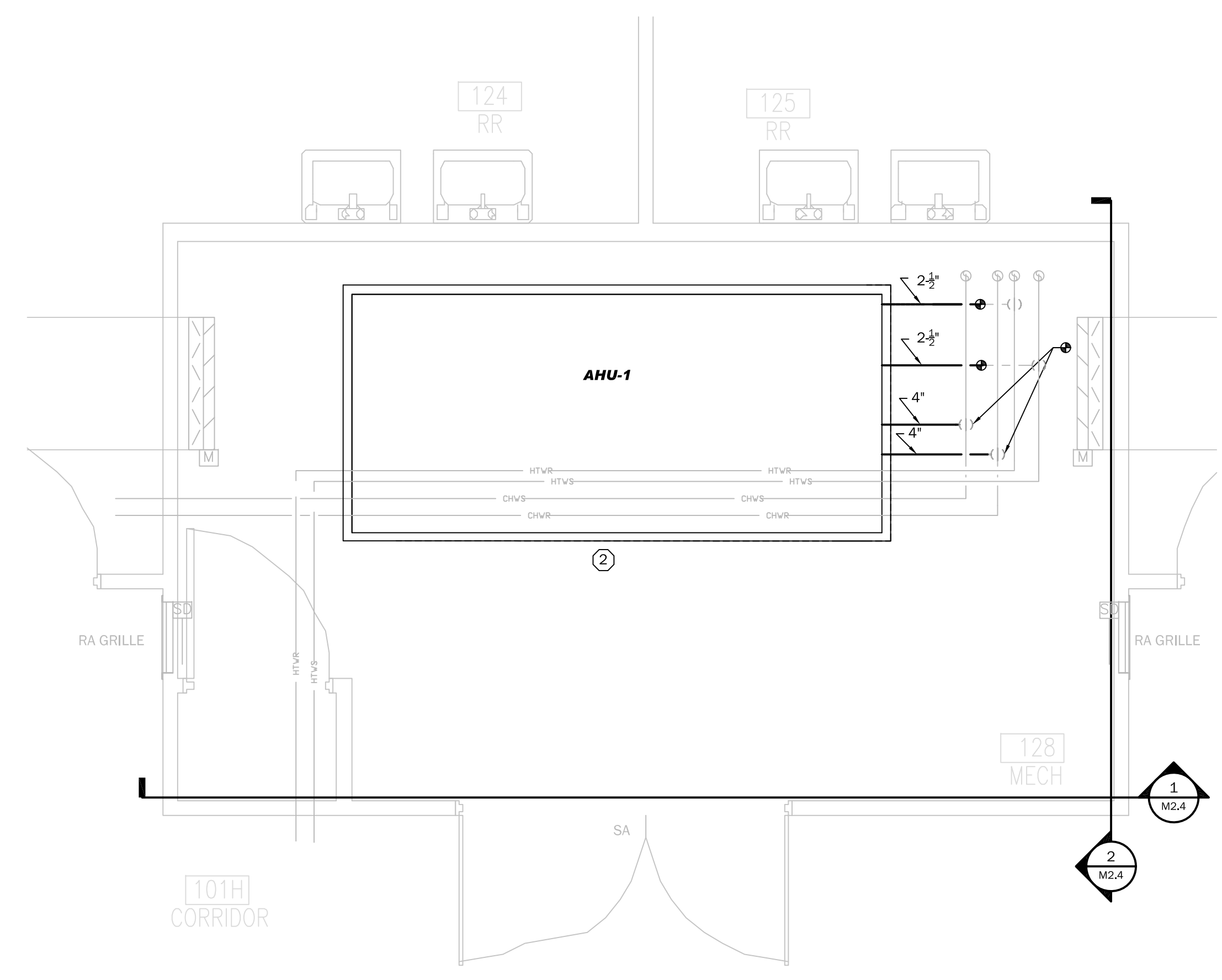
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M1.4

GENERAL NOTES:

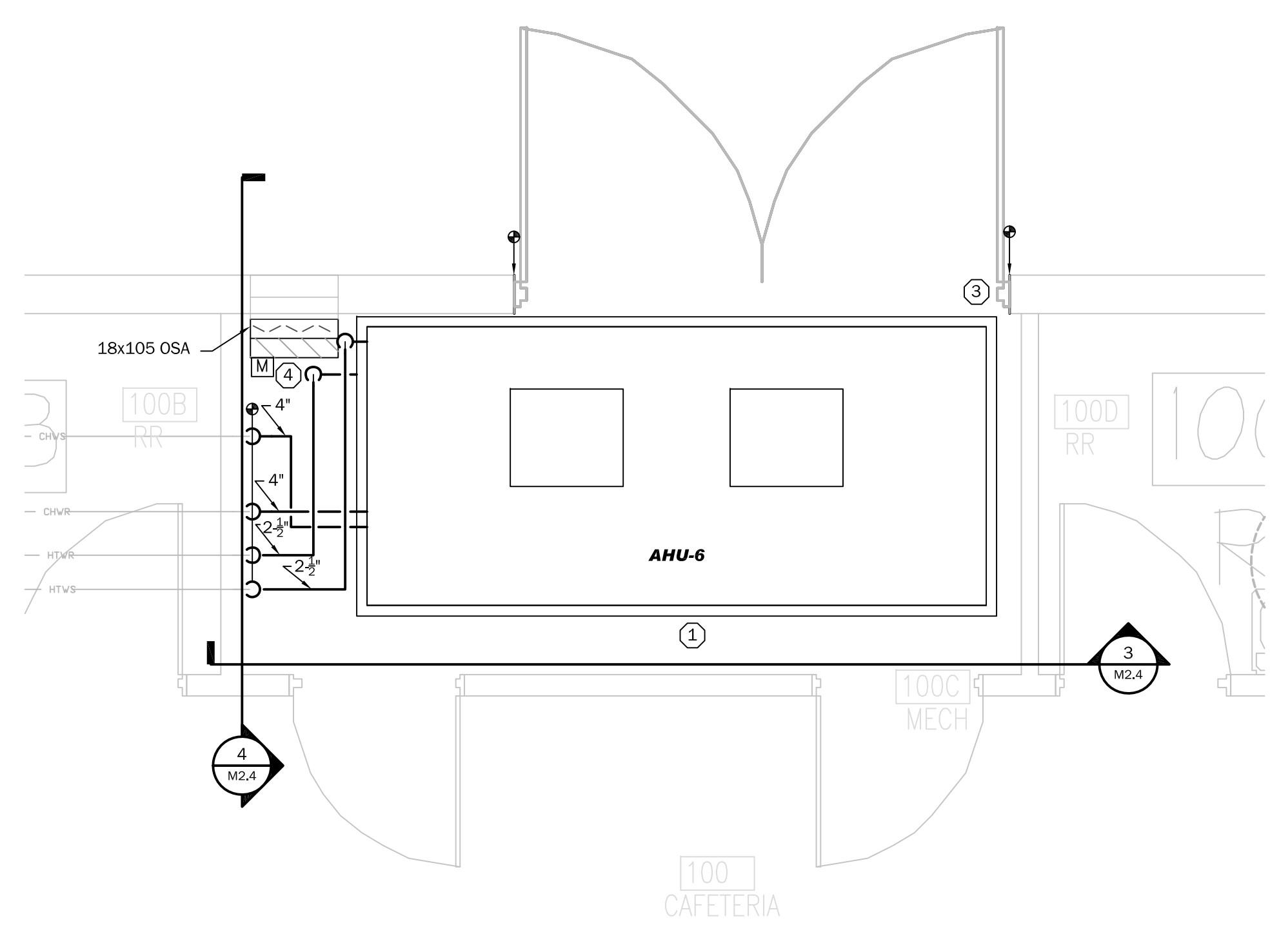
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4. USE RADIUS FITTINGS IN ALL SYSTEMS UNLESS CONDITIONS PROHIBIT THEIR USE. RADIUS TURNS IN SHEET METAL DUCTS SHALL BE MADE USING STANDARD RADIUS TYPE ELBOWS. SQUARE TURNS IN SHEET METAL DUCTS SHALL HAVE DOUBLE WALL VANED ELBOWS.
5. WHERE DUCTWORK IS TO BE FASTENED TO THE INTAKE OR DISCHARGE OF A FAN, A FLEXIBLE CONNECTION AT LEAST 4 INCHES LONG OF "VENT GLASS" FABRIC, OR APPROVED EQUAL, SHALL BE PROVIDED BETWEEN THE DUCTWORK AND THE FAN. FLEXIBLE CONNECTIONS SHALL BE SECURELY FASTENED TO FAN AND DUCTWORK WITH GALVANIZED BAND HOOPS.
6. INTERNALLY LINE ALL SUPPLY AIR DUCTS AND PLENUMS WITH 1" THICK, ELASTOMERIC CLOSED-CELL INSULATION. LINER SHALL ATTACH WITH PRESSURE SENSITIVE ADHESIVE BACKING AND MECHANICAL FASTENERS. SEE SPECIFICATIONS FOR OTHER PERFORMANCE REQUIREMENTS.
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KEY NOTES:

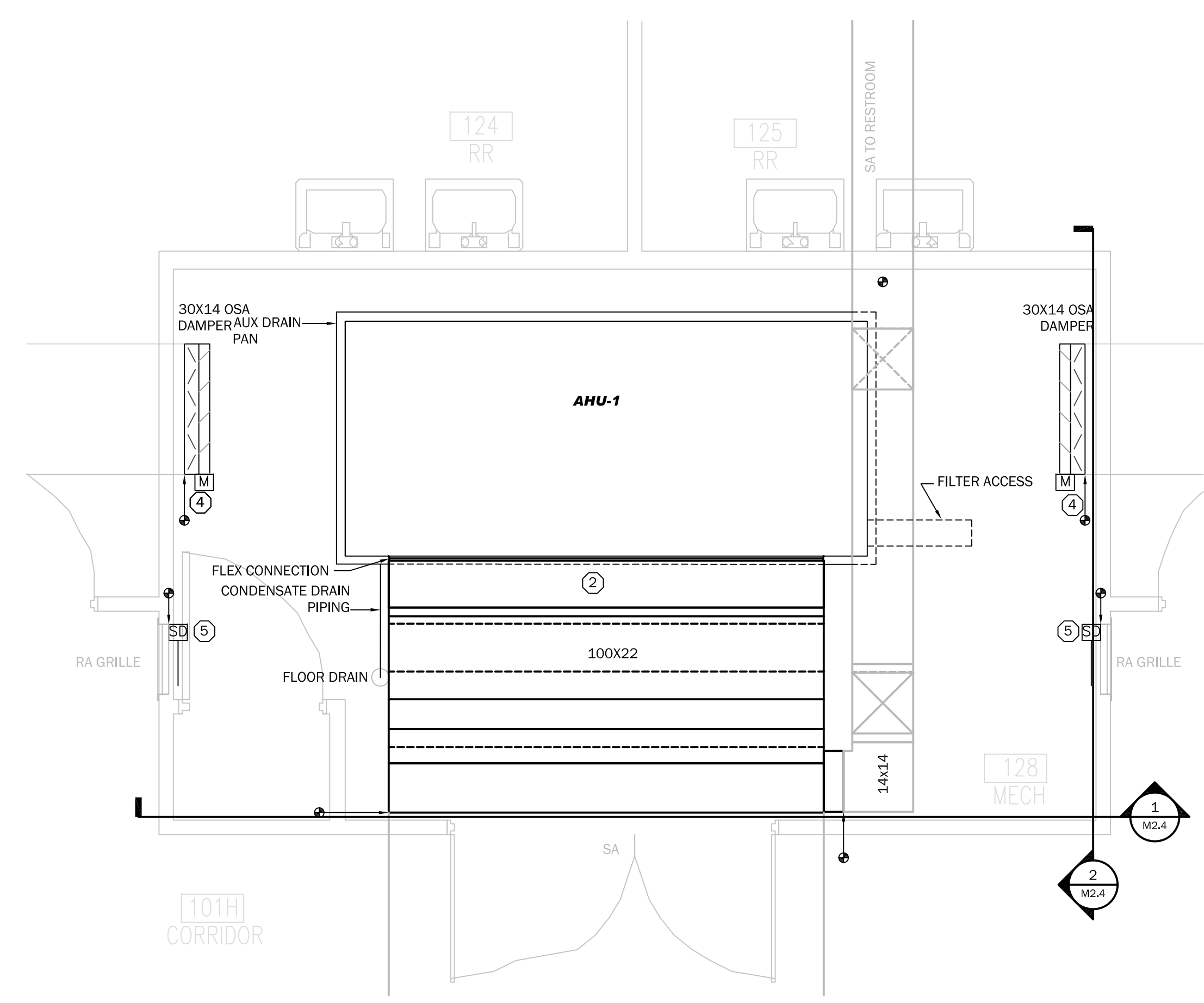
1. INSTALL AIR HANDLER UNIT AHU-6, HYDRONIC PIPING AND DUCTWORK IN PLACE AS SHOWN ON PLAN. REINSTALL EXISTING 2 WAY MODULATING VALVES. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
2. INSTALL AIR HANDLER UNIT AHU-1, HYDRONIC PIPING AND DUCTWORK IN PLACE AS SHOWN ON PLAN. REINSTALL EXISTING 2 WAY MODULATING VALVES. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
3. INSTALL MECHANICAL ROOM DOORS. ENSURE DOORS AND ASSEMBLY ARE AIR TIGHT TO SERVE AS ENCLOSURE FOR MECHANICAL ROOM RETURN AIR PLENUM SYSTEM. SEE DETAIL SHEET FOR INSTALLATION DETAIL.
4. INSTALL MOTORIZED DAMPER AND ACTUATOR. MOUNT TO EXISTING METAL SLEEVE AND CONNECT TO EXISTING BAS. FIELD VERIFY DAMPER SIZE.
5. INSTALL SMOKE DETECTORS AT RETURN AIR GRILLES.
6. INSTALL SMOKE DETECTOR IN RETURN AIR DUCT.



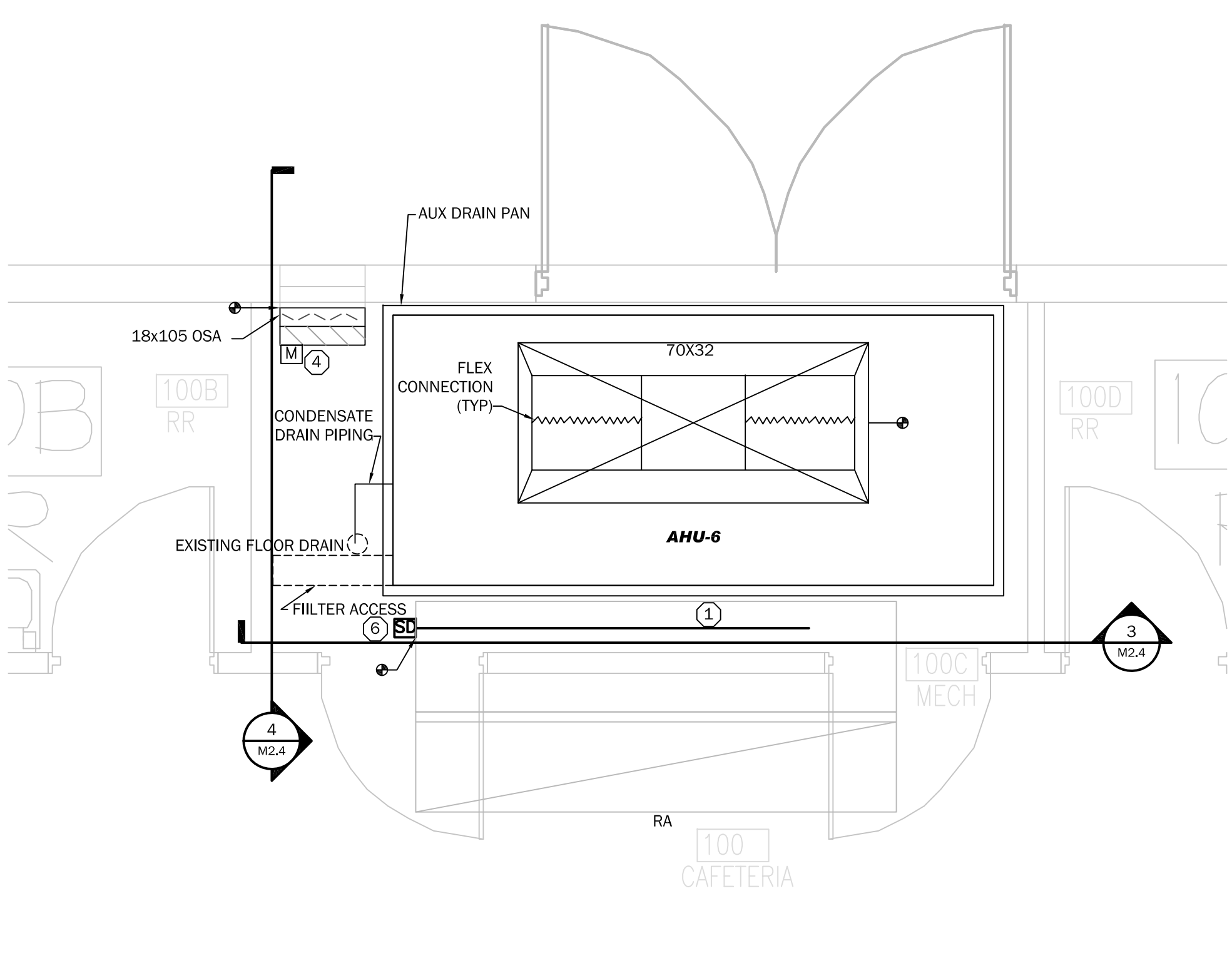
2 AHU-1 HYDRONIC PIPING ENLARGED PLAN
SCALE: 1/2"=1'



1 AHU-6 HYDRONIC PIPING ENLARGED PLAN
SCALE: 1/2"=1'

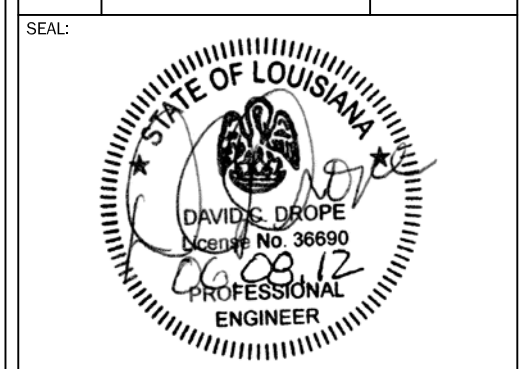


2 AHU-1 DUCTWORK ENLARGED PLAN
SCALE: 1/2"=1'



1 AHU-6 DUCTWORK ENLARGED PLAN
SCALE: 1/2"=1'

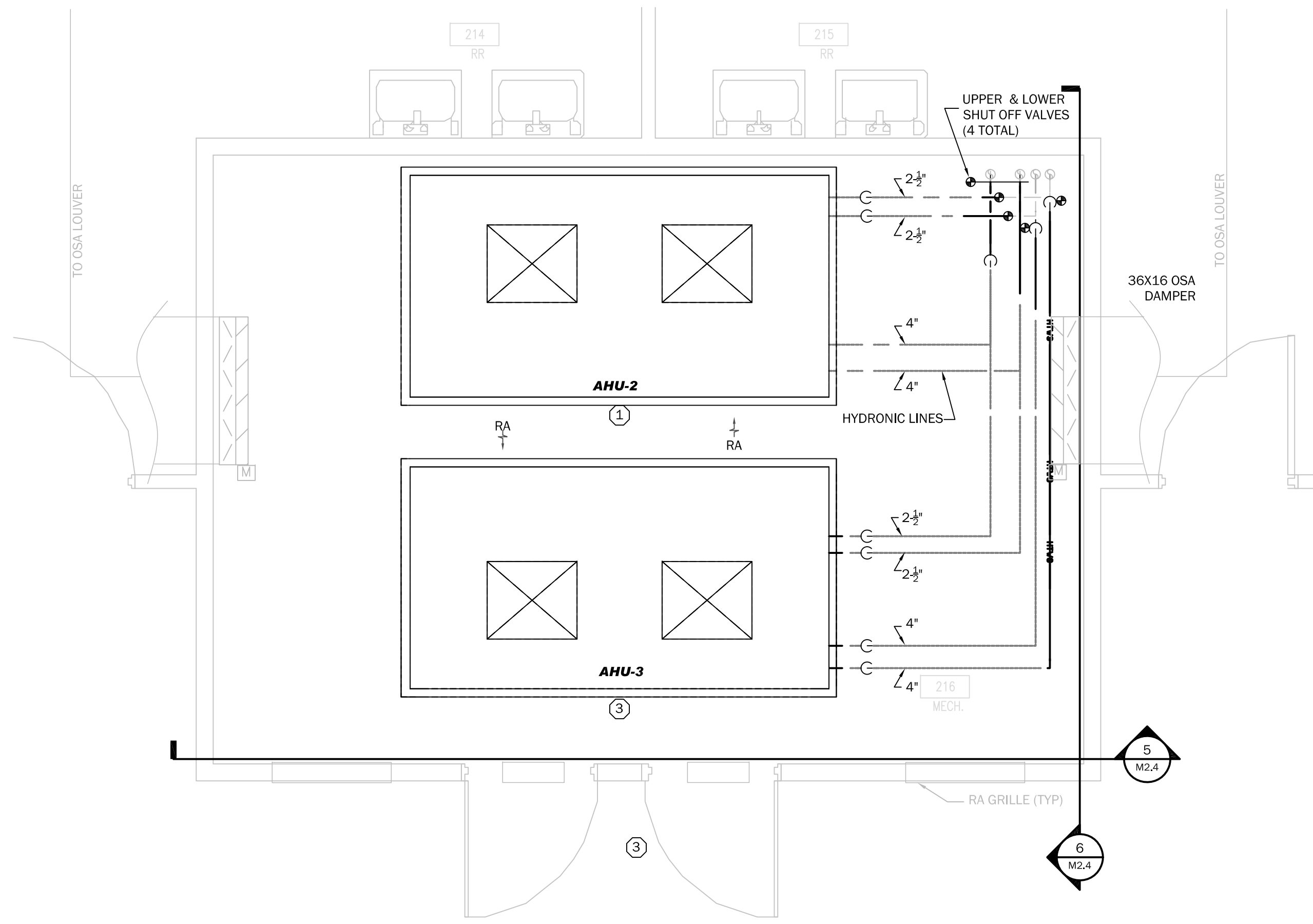
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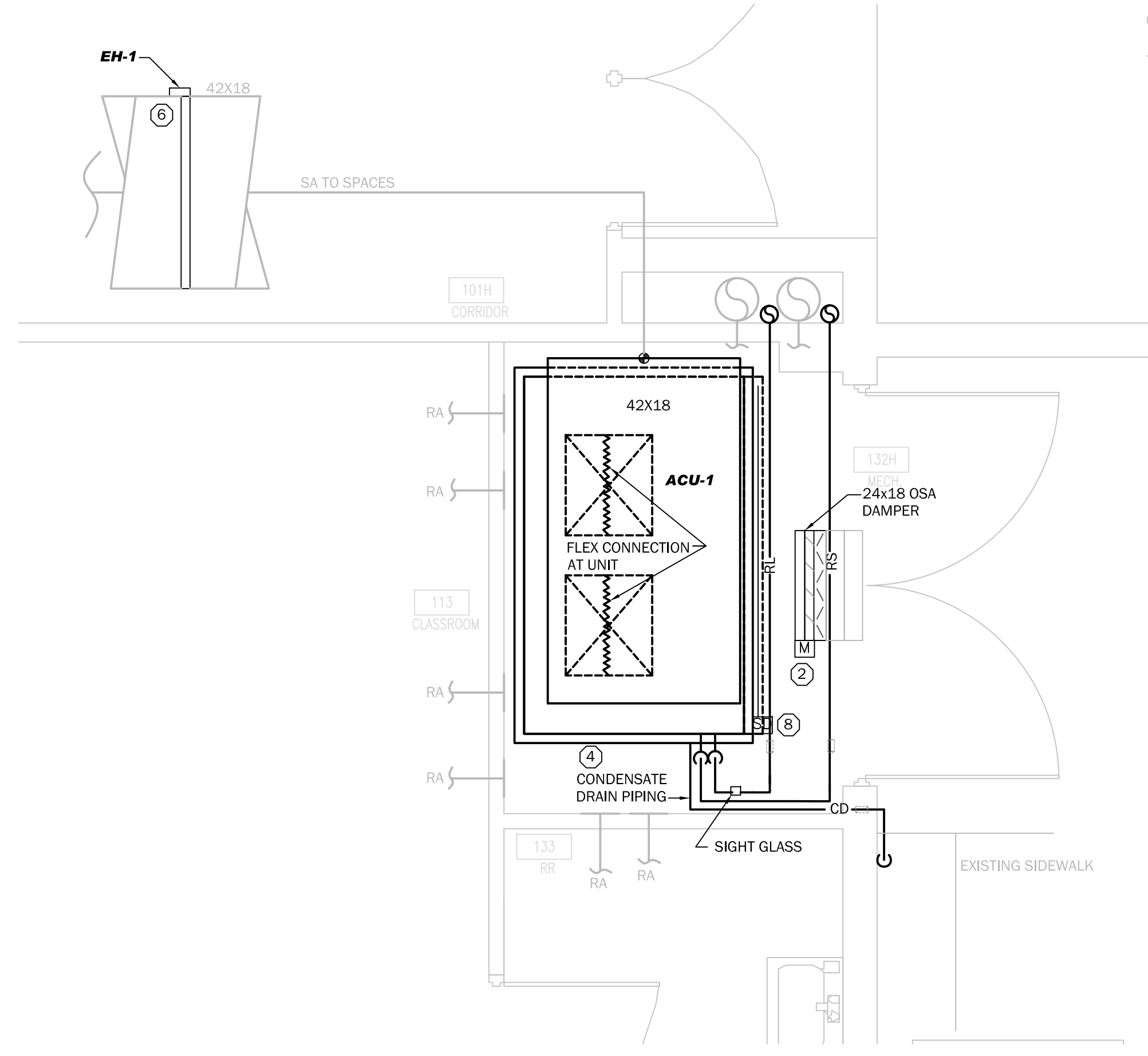
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DESIGNED BY: DSD	DATE: JUNE 08, 2012
CHECKED BY: DCD	PROJECT: 2011.0876.0001
PLOT NAME:	
DRAWING TITLE:	

HVAC ENLARGED PLANS

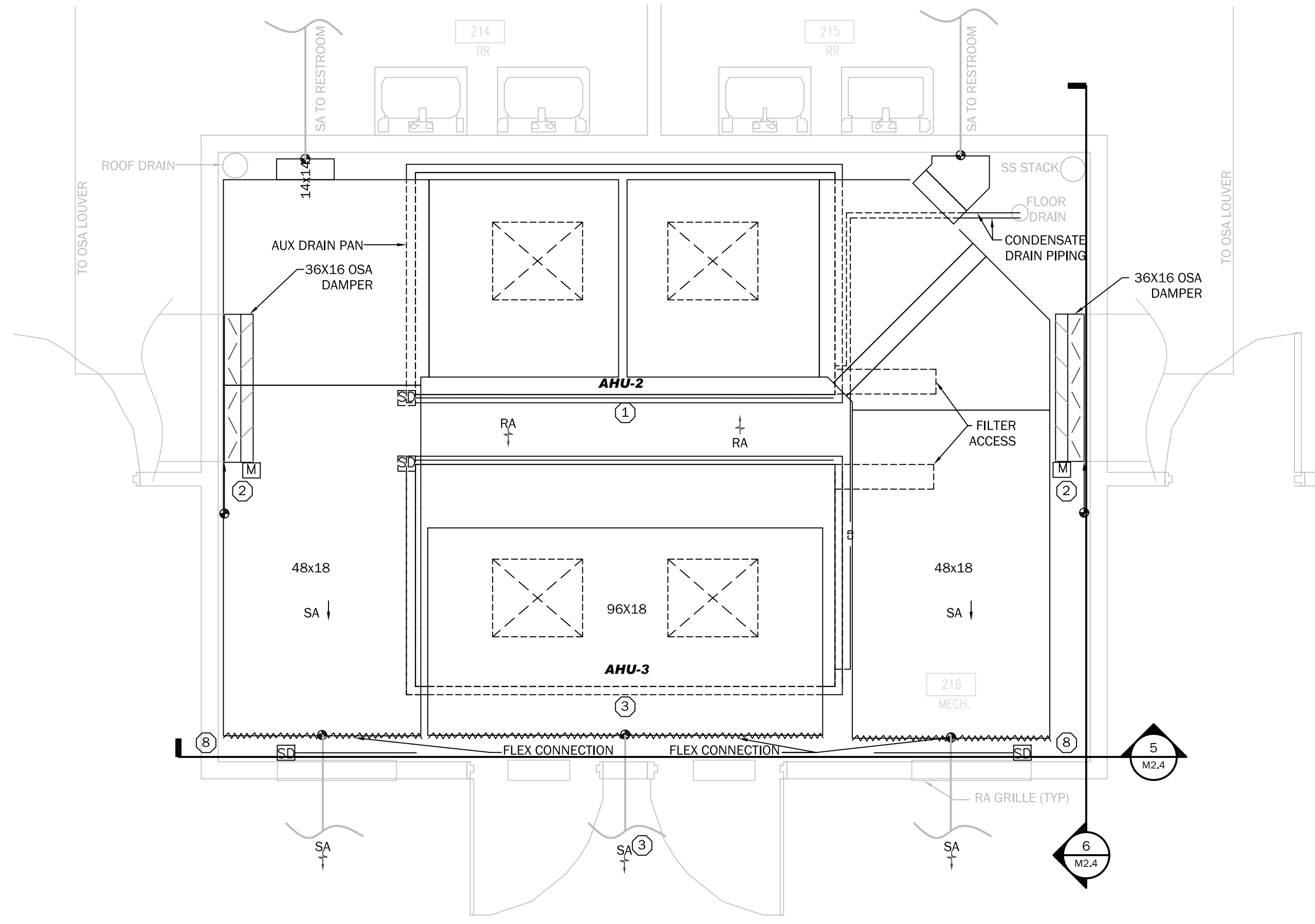
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M2.1



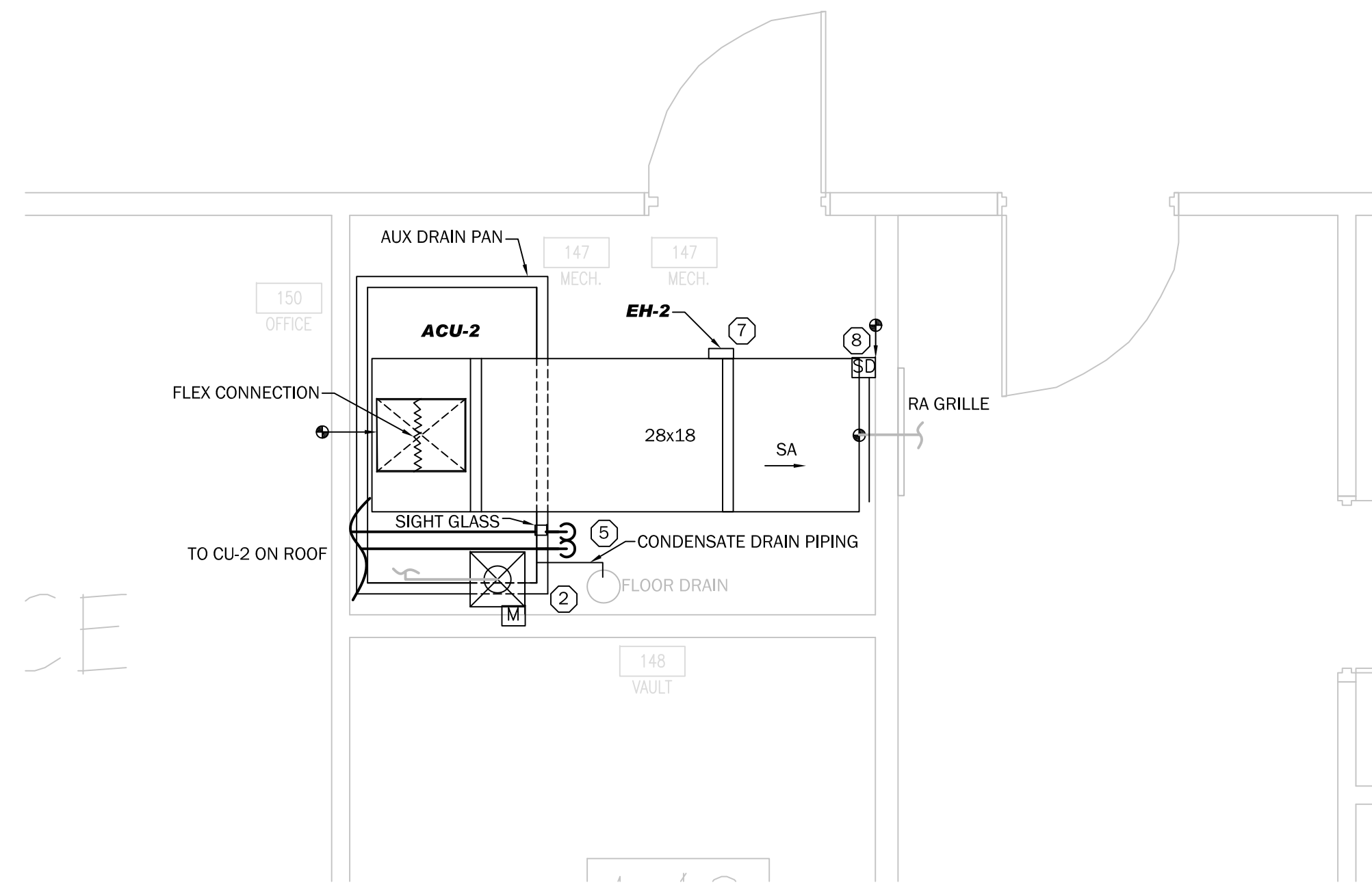
3 AHU-2&3 HYDRONIC PIPING ENLARGED PLAN
SCALE: 1/2"=1'



1 ACU-1 DUCTWORK ENLARGED PLAN
SCALE: 1/2"=1'



3 AHU-2&3 DUCTWORK ENLARGED PLAN
SCALE: 1/2"=1'



2 ACU-2 DUCTWORK ENLARGED PLAN
SCALE: 1/2"=1'

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KEY NOTES:

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2. INSTALL MOTORIZED DAMPER AND ACTUATOR. MOUNT TO EXISTING METAL SLEEVE AND CONNECT TO EXISTING BAS. FIELD VERIFY DAMPER SIZE.
3. INSTALL AIR HANDLER UNIT AHU-3, HYDRONIC PIPING, AND DUCTWORK IN PLACE AS SHOWN. REINSTALL EXISTING 2 WAY MODULATING VALVES. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
4. INSTALL AIR HANDLER UNIT ACU-1, REFRIGERANT LINES, AND DUCTWORK IN PLACE AS SHOWN. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
5. INSTALL AIR HANDLER UNIT ACU-2, REFRIGERANT LINES, AND DUCTWORK IN PLACE AS SHOWN. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
6. INSTALL ELECTRIC DUCT HEATER EH-1. FIELD VERIFY EXISTING DUCT SIZE.
7. INSTALL ELECTRIC DUCT HEATER EH-2.
8. INSTALL SMOKE DETECTORS IN RETURN AIR GRILLE/STREAM.
9. INSTALL SMOKE DETECTOR ON ACU-1 IN RETURN AIR STREAM.



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P: 601.968.9194
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**AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125**

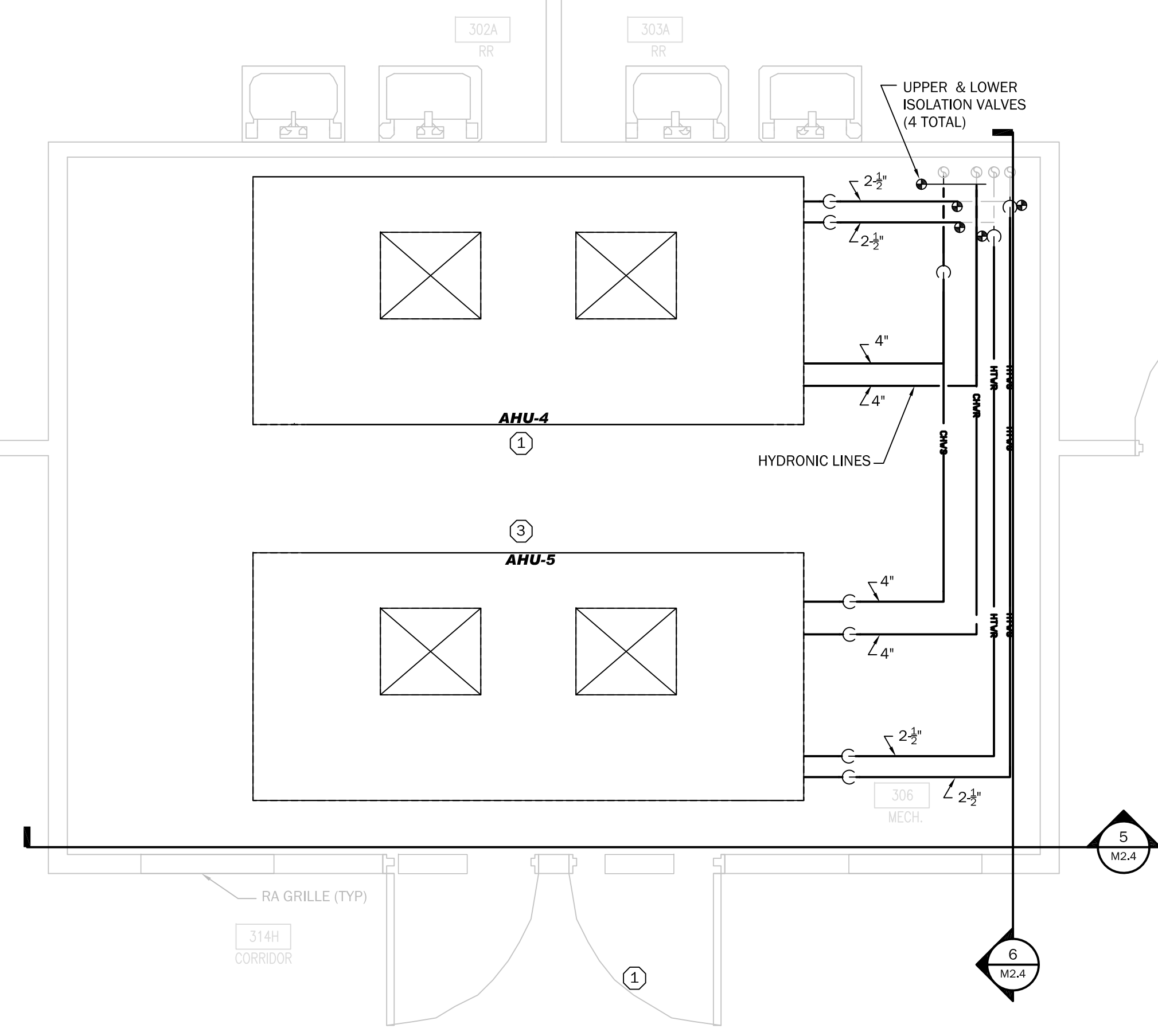
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NO.	REMARKS	DATE



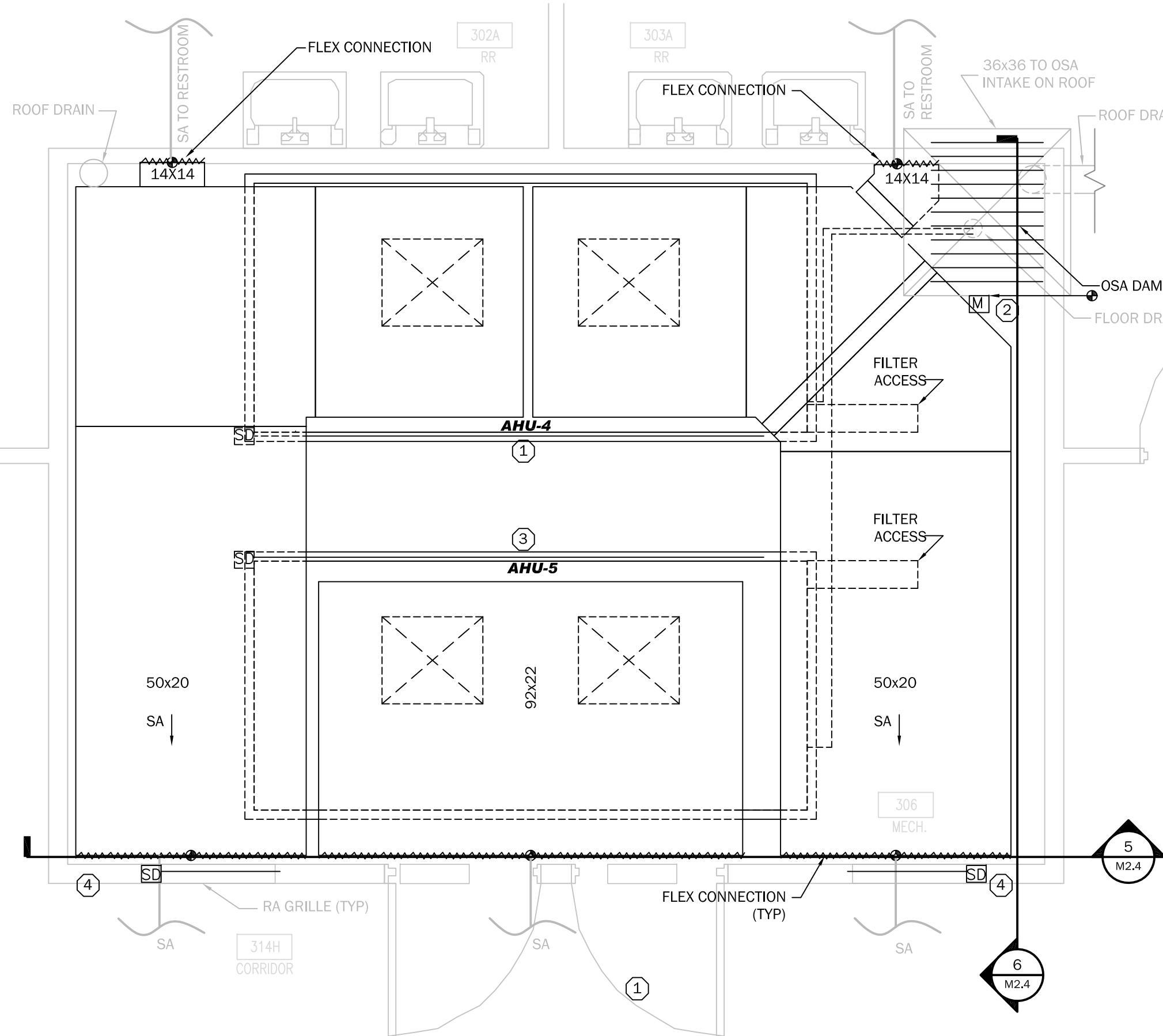
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DESIGNED BY: DSD DATE: JUNE 08, 2012
CHECKED BY: DCD PROJECT: 2011.0876.0001
P/N: NAME: PROJECT: 2011.0876.0001
DRAWING TITLE:

HVAC ENLARGED PLANS

SHEET NUMBER:
M2.2



1 M2.3 AHU-4&5 HYDRONIC PIPING ENLARGED PLAN
SCALE: 1/2"=1'



1 M2.3 AHU-4&5 DUCTWORK ENLARGED PLAN
SCALE: 1/2"=1'

GENERAL NOTES:

1. THE CONTRACTOR SHALL MAKE ALL FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION AND ERECTION OF HVAC DUCTWORK. DUCTWORK SHALL BE IN ACCORDANCE WITH NFPA 90A, NFPA 96, AND THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) HVAC DUCT CONSTRUCTION STANDARDS-METAL & FLEXIBLE.
2. DUCT SUPPORTS SHALL BE IN ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA-DCS) AND PLAN DETAILS.
3. SEAL ALL SEAMS AND JOINTS IN SHEET METAL DUCTS WITH SOLVENT BASED SEALANT.
4. USE RADIUS FITTINGS IN ALL SYSTEMS UNLESS CONDITIONS PROHIBIT THEIR USE. RADIUS TURNS IN SHEET METAL DUCTS SHALL BE MADE USING STANDARD RADIUS TYPE ELBOWS. SQUARE TURNS IN SHEET METAL DUCTS SHALL HAVE DOUBLE WALL VANED ELBOWS.
5. WHERE DUCTWORK IS TO BE FASTENED TO THE INTAKE OR DISCHARGE OF A FAN, A FLEXIBLE CONNECTION AT LEAST 4 INCHES LONG OF "VENT GLASS" FABRIC, OR APPROVED EQUAL, SHALL BE PROVIDED BETWEEN THE DUCTWORK AND THE FAN. FLEXIBLE CONNECTIONS SHALL BE SECURELY FASTENED TO FAN AND DUCTWORK WITH GALVANIZED BAND HOOPS.
6. INTERNALLY LINE ALL SUPPLY AIR DUCTS AND PLENUMS WITH 1" THICK ELASTOMERIC CLOSED-CELL INSULATION. LINER SHALL ATTACH WITH PRESSURE SENSITIVE ADHESIVE BACKING AND MECHANICAL FASTENERS. SEE SPECIFICATIONS FOR OTHER PERFORMANCE REQUIREMENTS.
7. THESE PLANS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS, IT IS INTENDED THAT THE SPECIFIED HVAC SYSTEM BE PROVIDED COMPLETE WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS AND COMPLETELY COORDINATED WITH ALL OTHER CRAFTS AND DISCIPLINES. INSTALLATION OF HVAC UNITS, DUCTWORK, FIRE DAMPERS, VENT PIPING, FIRE STOPS, CONDENSATE LINES AND REFRIGERANT LINES SHALL COMPLY WITH LOCAL BUILDING CODES, DRAWINGS AND SPECIFICATIONS.

KEY NOTES:

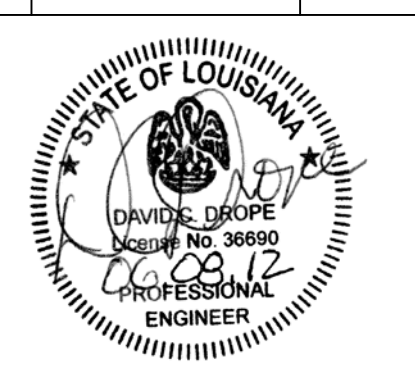
1. INSTALL AIR HANDLER UNIT AHU-4, HYDRONIC PIPING, AND DUCTWORK IN PLACE AS SHOWN. REINSTALL EXISTING 3-WAY MODULATING VALVES. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
2. INSTALL MOTORIZED DAMPER AND ACTUATOR. MOUNT TO EXISTING METAL SLEEVE AND CONNECT TO EXISTING BAS. FIELD VERIFY DAMPER SIZE.
3. INSTALL AIR HANDLER UNIT AHU-5, HYDRONIC PIPING, AND DUCTWORK IN PLACE AS SHOWN. REINSTALL EXISTING 3-WAY MODULATING VALVES. ROUTE AND CONNECT PER ENLARGED PLAN THIS SHEET.
4. INSTALL SMOKE DETECTORS IN RETURN AIR GRILLE/STREAM.



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 ELEMENTARY SCHOOL
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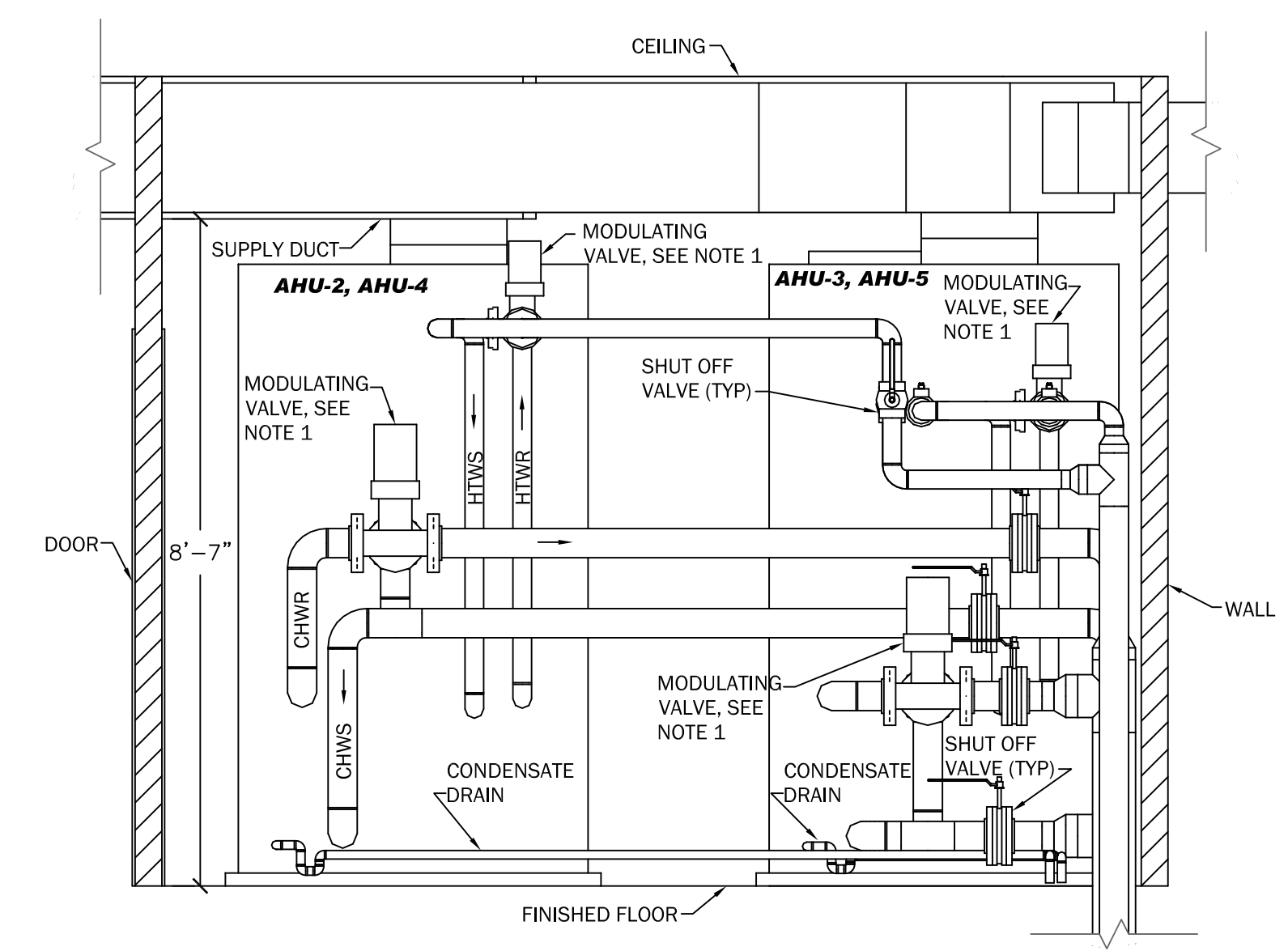


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 P13H NAME:
 DRAWING TITLE:

HVAC ENLARGED PLANS

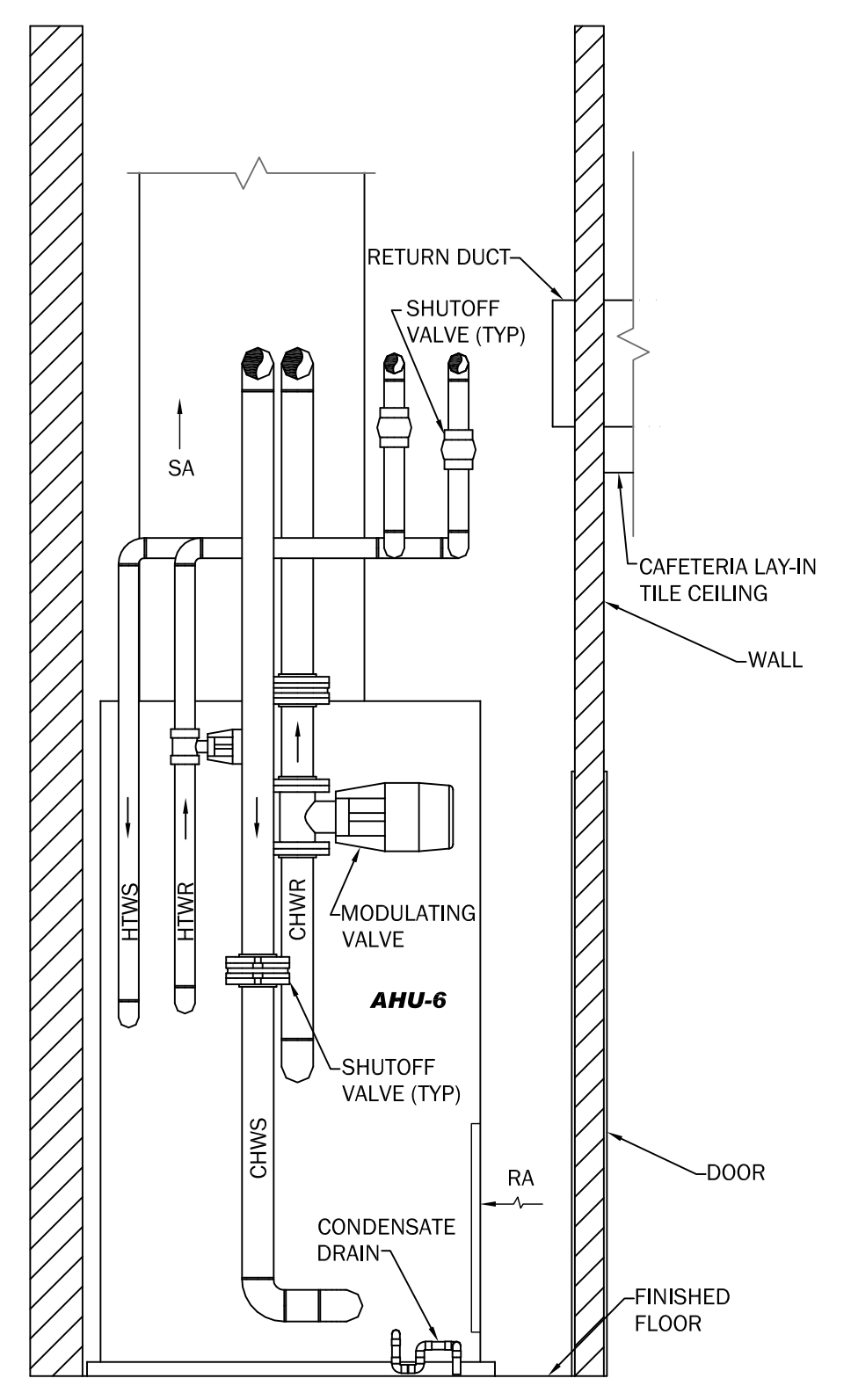
SHEET NUMBER:
M2.3

**AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125**

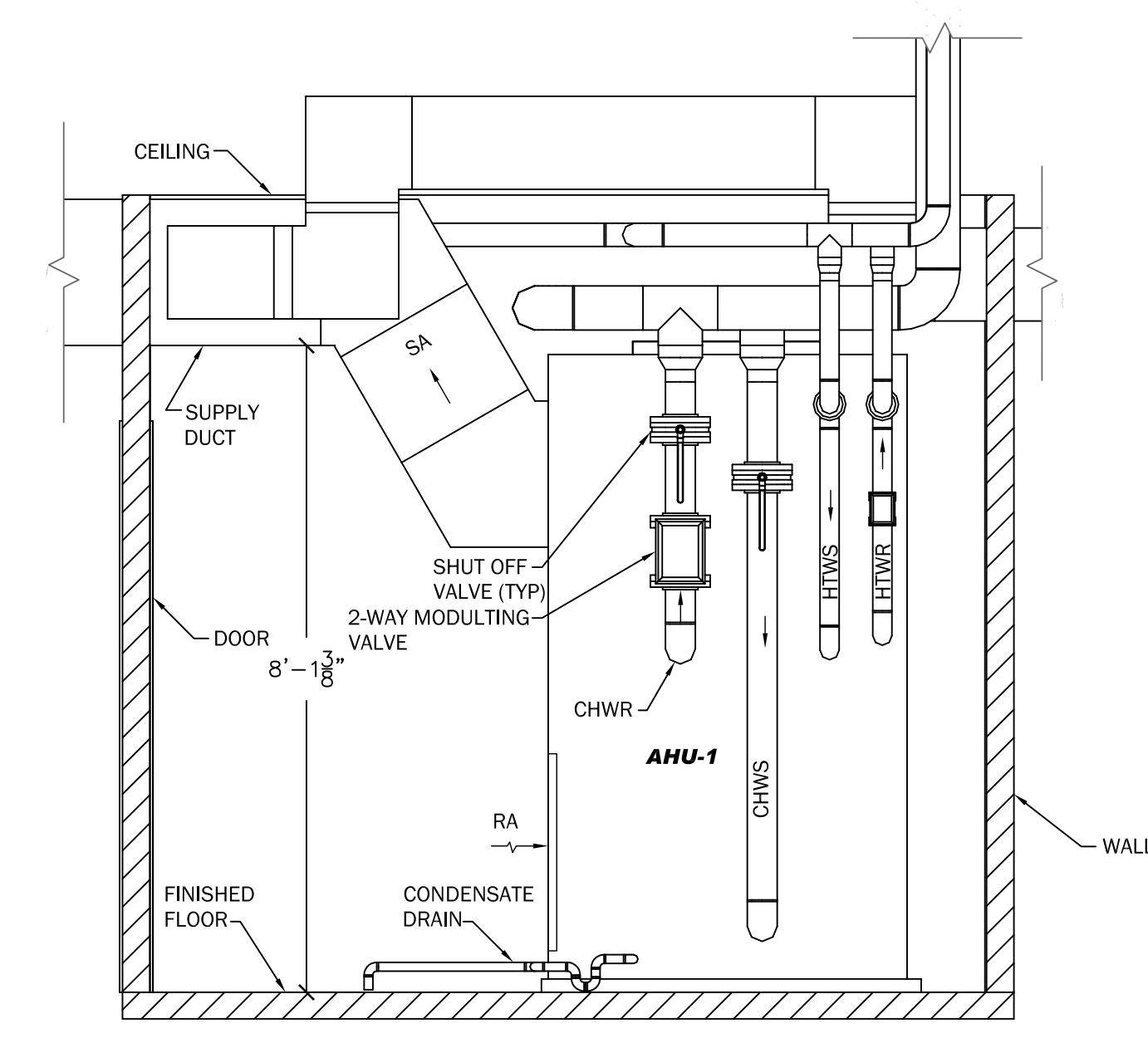


NOTES:
1. AHU-4&5 SHALL BE 3-WAY MODULATING VALVES AND AHU-2&3 SHALL BE 2-WAY MODULATING VALVES.

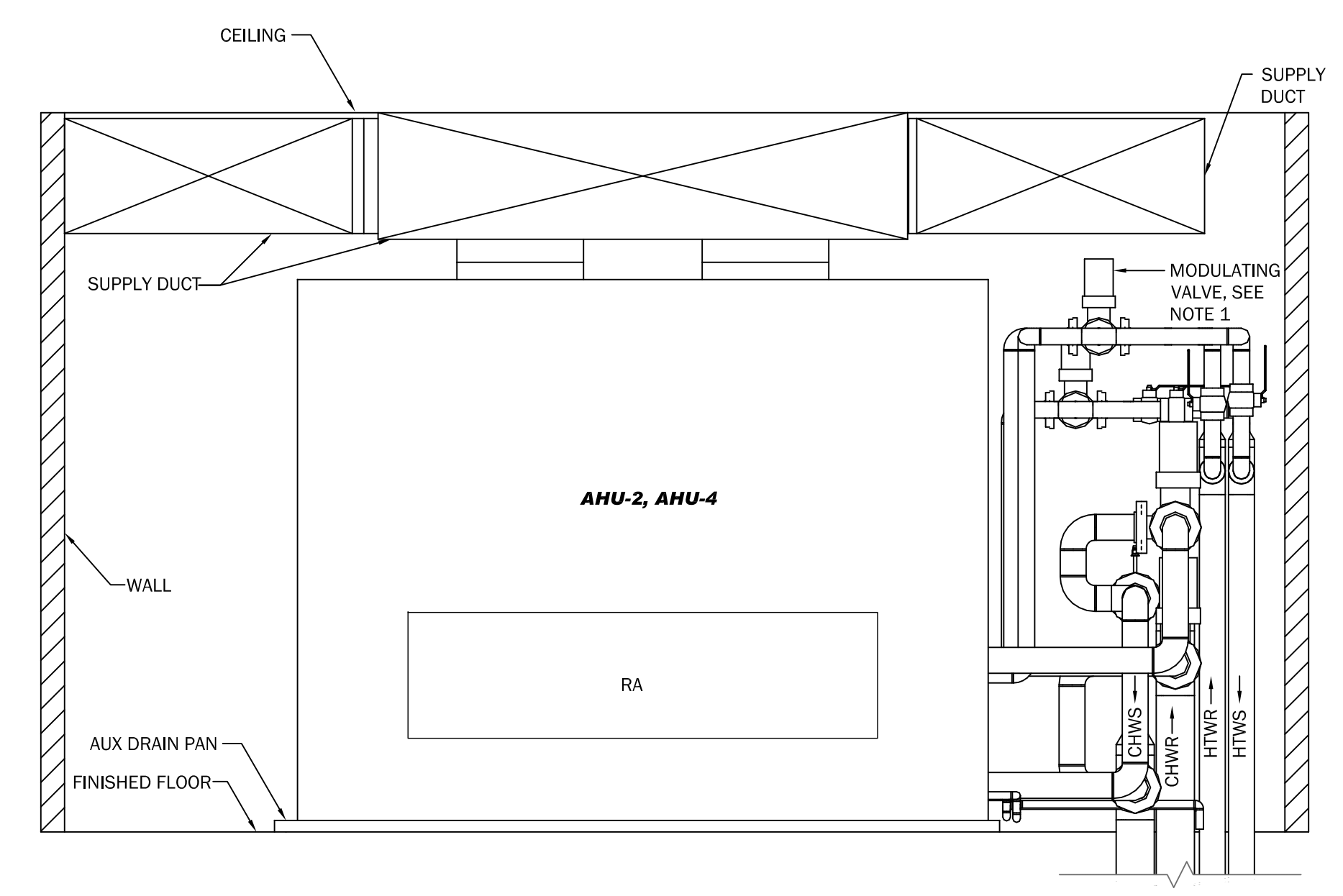
6 MECH. ROOMS 216 & 306 SECTION VIEW
M2.4 SCALE: 1/2"=1'



4 MECH. ROOM 100C SECTION VIEW
M2.4 SCALE: 1/2"=1'

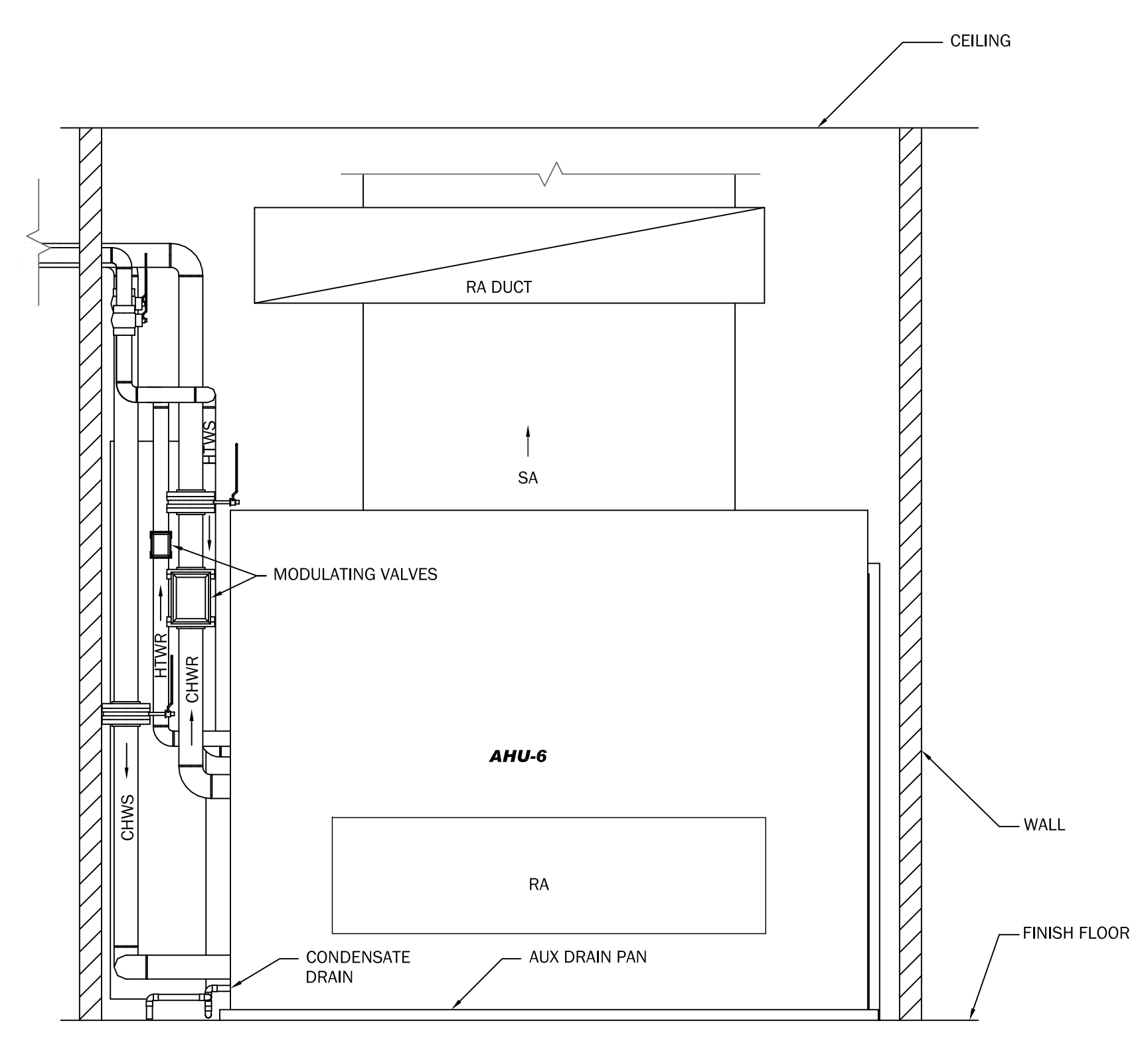


2 MECH. ROOM 128 SECTION VIEW
M2.4 SCALE: 1/2"=1'

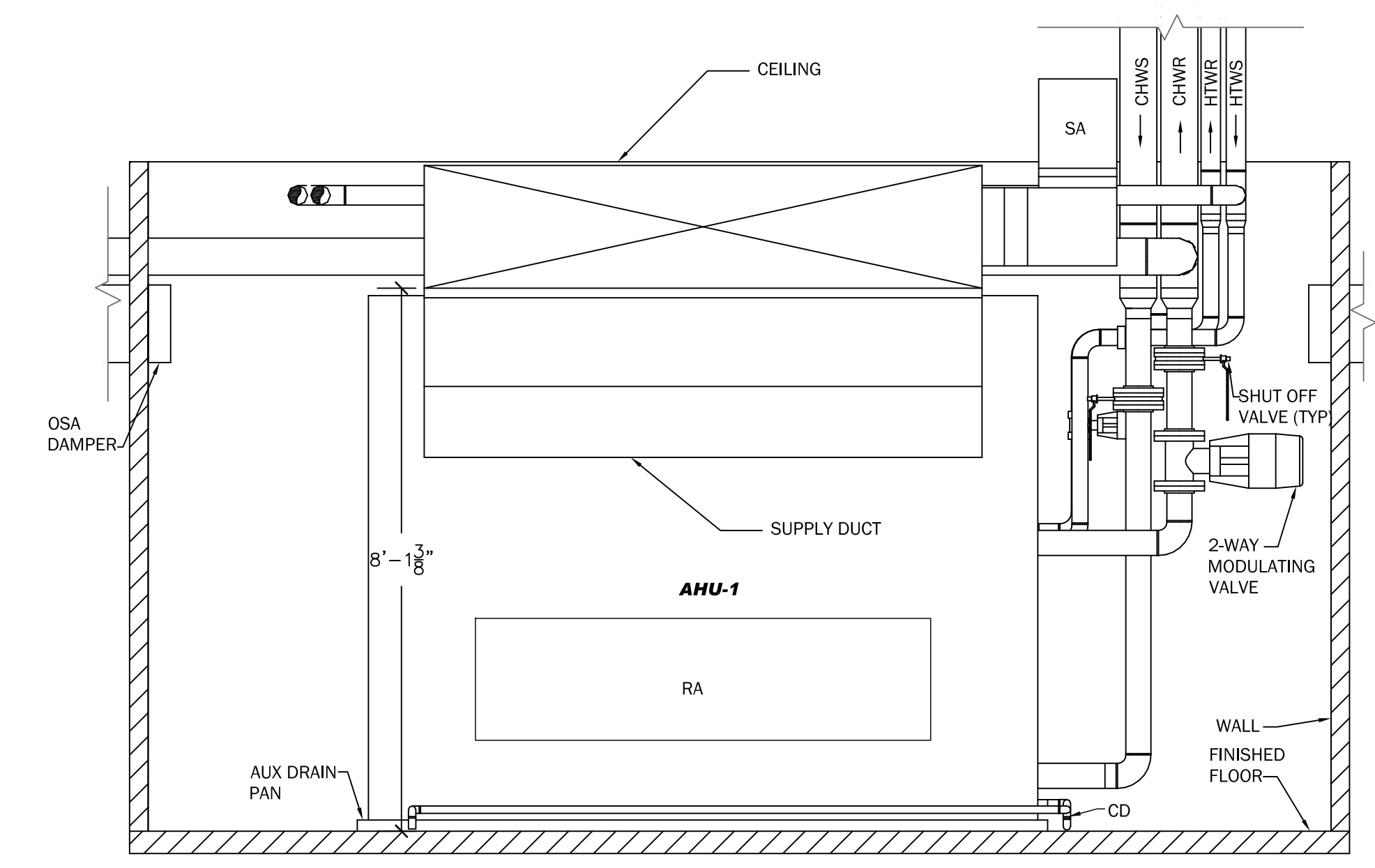


NOTES:
1. AHU-4&5 SHALL BE 3-WAY MODULATING VALVES AND AHU-2&3 SHALL BE 2-WAY MODULATING VALVES.

5 MECH. ROOM 216 & 306 SECTION VIEW
M2.4 SCALE: 1/2"=1'

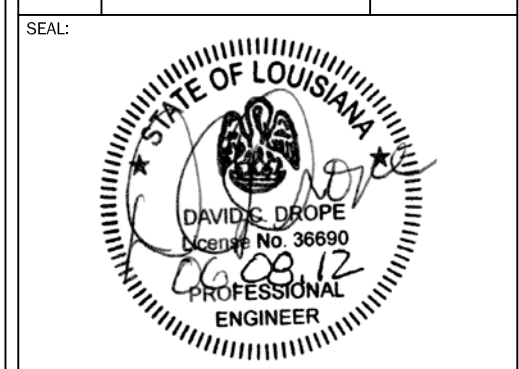


3 MECH. ROOM 100C SECTION VIEW
M2.4 SCALE: 1/2"=1'



1 MECH. ROOM 128 SECTION VIEW
M2.4 SCALE: 1/2"=1'

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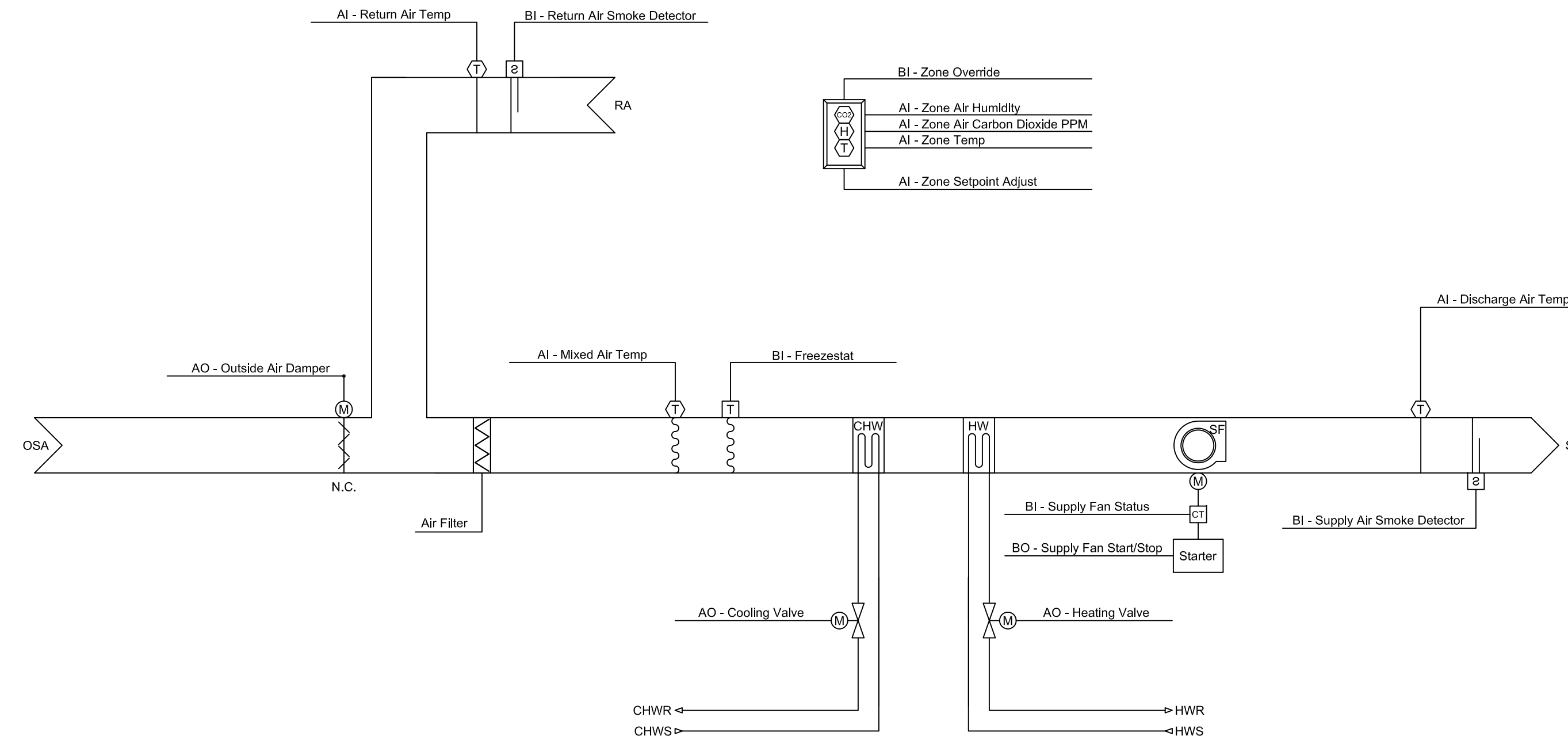


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DRAWING TITLE:

HVAC SECTION VIEWS

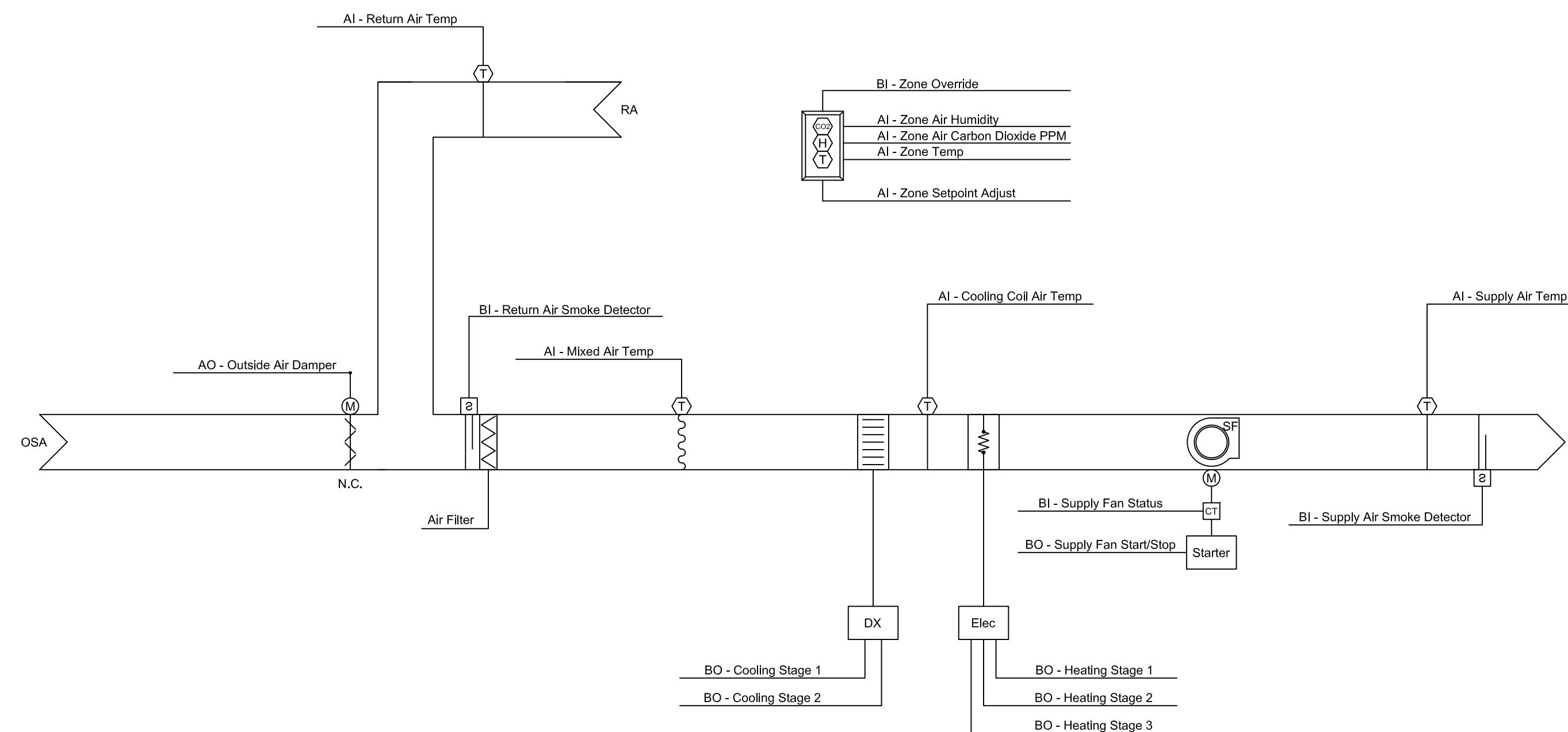
SHEET NUMBER:
M2.4

POINTS LIST										
Point Name	Hardware Points				Software Points					
	AI	AO	BI	BO	AV	BV	Sched	Trend	Alarm	Show On Graphic
AHU-1,2,3,4,5,6										
Zone Temp	x							x		x
Zone Setpoint Adjust	x									x
Discharge Air Temp	x							x		x
Zone Carbon Dioxide PPM	x							x		x
Zone Air Humidity	x							x		x
Return Air Temp	x							x		x
Cooling Coil Discharge Air Temp	x									x
Cooling Valve		x						x		x
Heating Valve		x						x		x
Outside Air Dampers		x						x		x
Zone Override			x					x		x
Freezestat			x					x	x	x
Return Air Smoke Detector			x					x	x	x
Supply Air Smoke Detector			x					x	x	x
Supply Fan Status			x					x		x
Supply Fan Start/Stop				x				x		x
Economizer Zone Temp Setpoint					x			x		
Zone Air Carbon Dioxide PPM Setpoint					x			x		
Dehumidification Setpoint					x			x		
Schedule							x			
Heating Setpoint								x		
Cooling Setpoint									x	
High Zone Temp									x	
Low Zone Temp									x	
Supply Fan Failure									x	
Supply Fan in Hand									x	
Supply Fan Runtime Exceeded									x	
High Discharge Air Temp									x	
Low Discharge Air Temp									x	
High Zone Air Carbon Dioxide Concentration									x	
High Zone Air Humidity									x	
Low Zone Air Humidity									x	
High Return Air Temp									x	
Low Return Air Temp									x	
High Supply Air Temp									x	
Low Supply Air Temp									x	



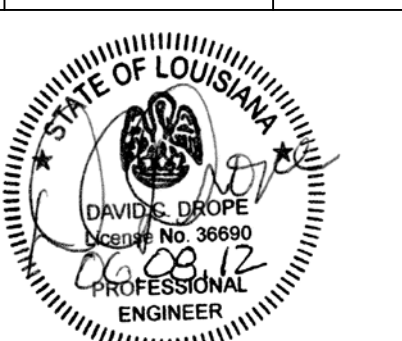
1 CHW/HTW AIR HANDLING UNIT SCHEMATIC
M3.1 NOT TO SCALE

POINTS LIST										
Point Name	Hardware Points				Software Points					
	AI	AO	BI	BO	AV	BV	Sched	Trend	Alarm	Show On Graphic
ACU-1,2										
Zone Temp	x							x		x
Zone Setpoint Adjust	x									x
Discharge Air Temp	x							x		x
Zone Carbon Dioxide PPM	x							x		x
Zone Air Humidity	x							x		x
Return Air Temp	x							x		x
Cooling Coil Discharge Air Temp	x									x
Cooling Stage 1			x					x		x
Cooling Stage 2				x				x		x
Outside Air Dampers		x						x		x
Zone Override			x					x		x
Freezestat			x					x	x	x
Return Air Smoke Detector			x					x	x	x
Supply Air Smoke Detector			x					x	x	x
Supply Fan Status			x					x		x
Supply Fan Start/Stop				x				x		x
Economizer Zone Temp Setpoint					x			x		
Zone Air Carbon Dioxide PPM Setpoint					x			x		
Dehumidification Setpoint					x			x		
Schedule							x			
Heating Setpoint								x		
Cooling Setpoint									x	
High Zone Temp									x	
Low Zone Temp									x	
Compressor Runtime Exceeded									x	
Supply Fan Failure									x	
Supply Fan in Hand									x	
Supply Fan Runtime Exceeded									x	
High Discharge Air Temp									x	
Low Discharge Air Temp									x	
High Zone Air Carbon Dioxide Concentration									x	
High Zone Air Humidity									x	
Low Zone Air Humidity									x	
High Return Air Temp									x	
Low Return Air Temp									x	
High Supply Air Temp									x	
Low Supply Air Temp									x	



2 DX/ELECT HT AIR HANDLING UNIT SCHEMATIC
M3.1 NOT TO SCALE

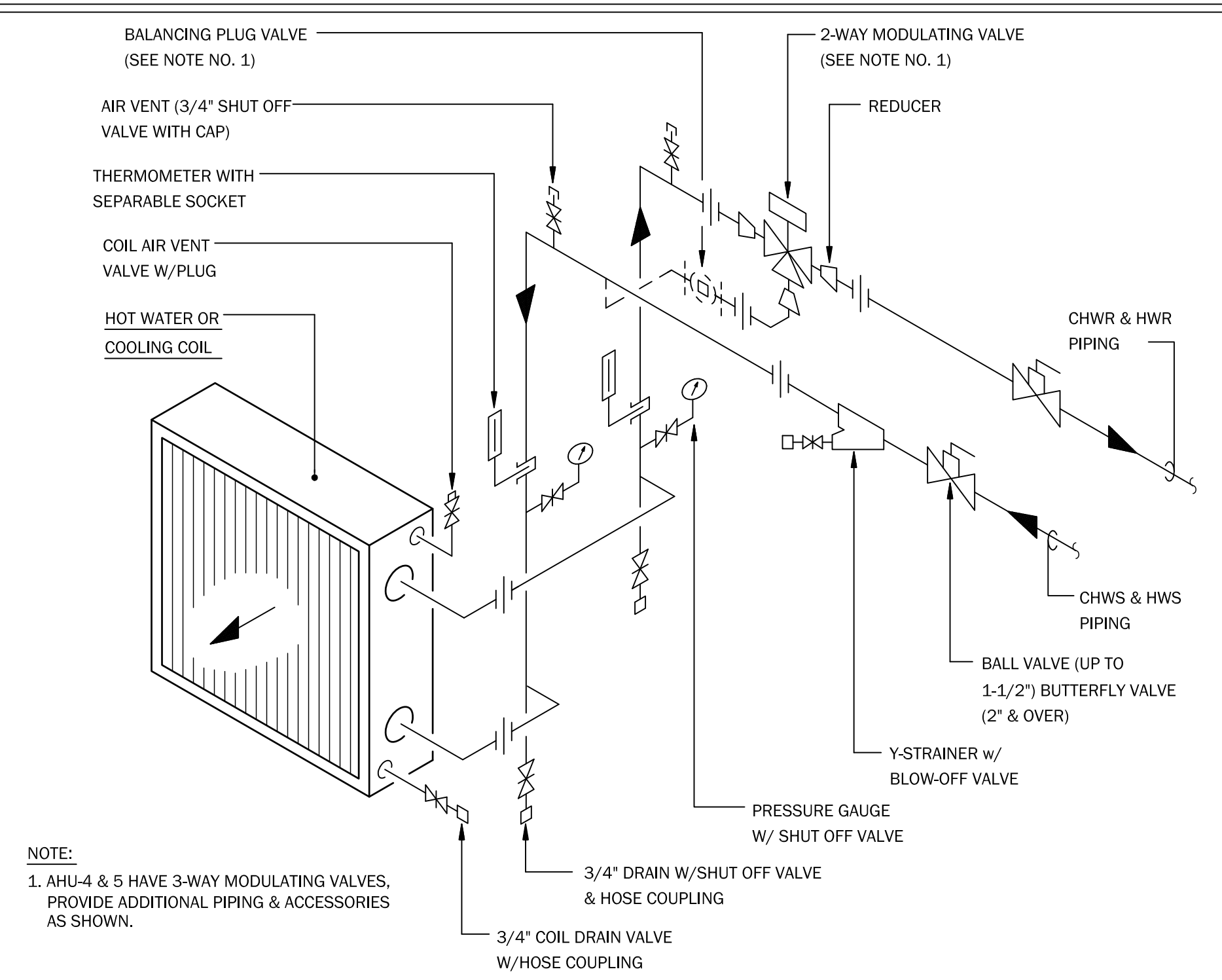
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NO.	REMARKS	DATE



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PATH NAME:	
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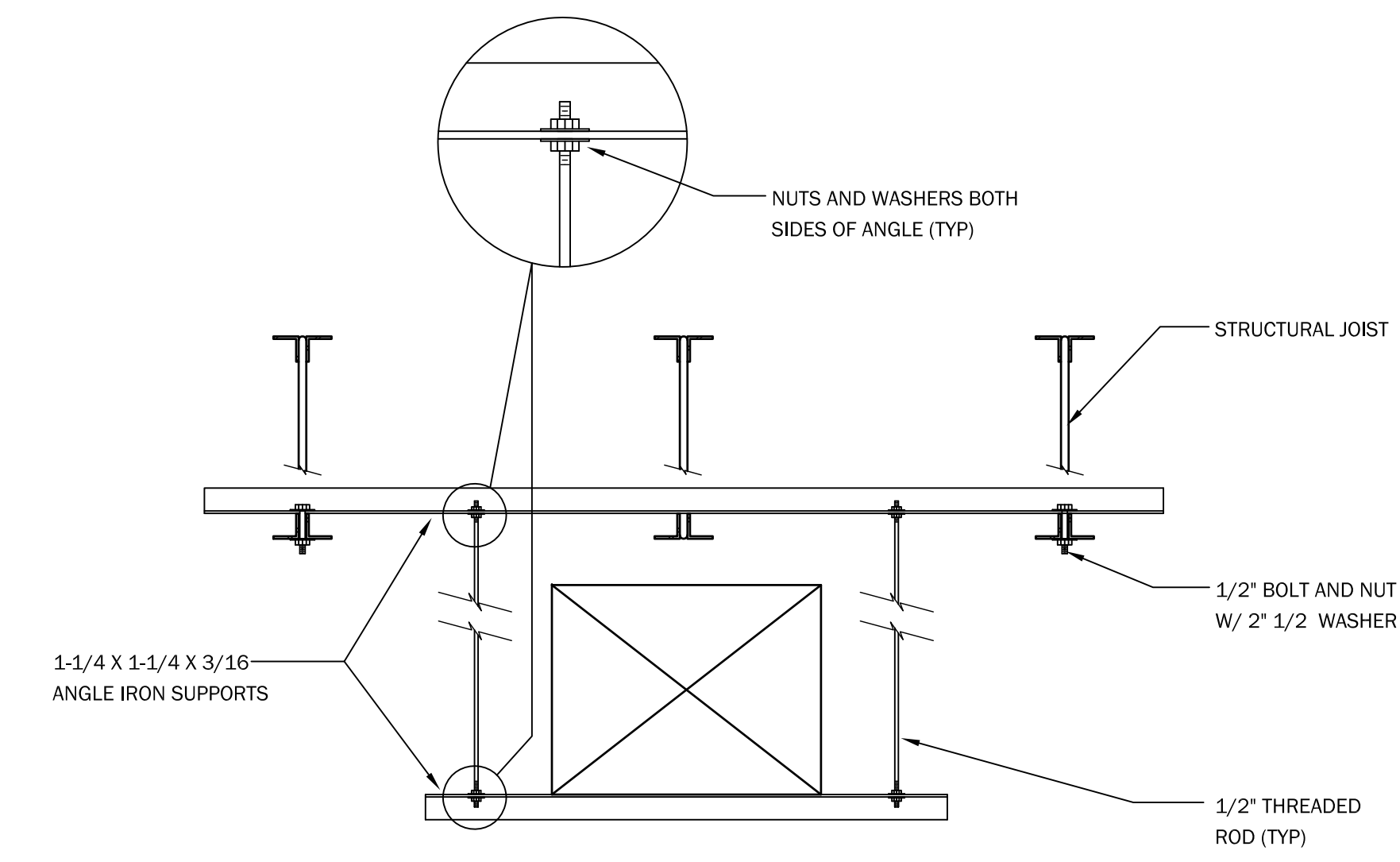
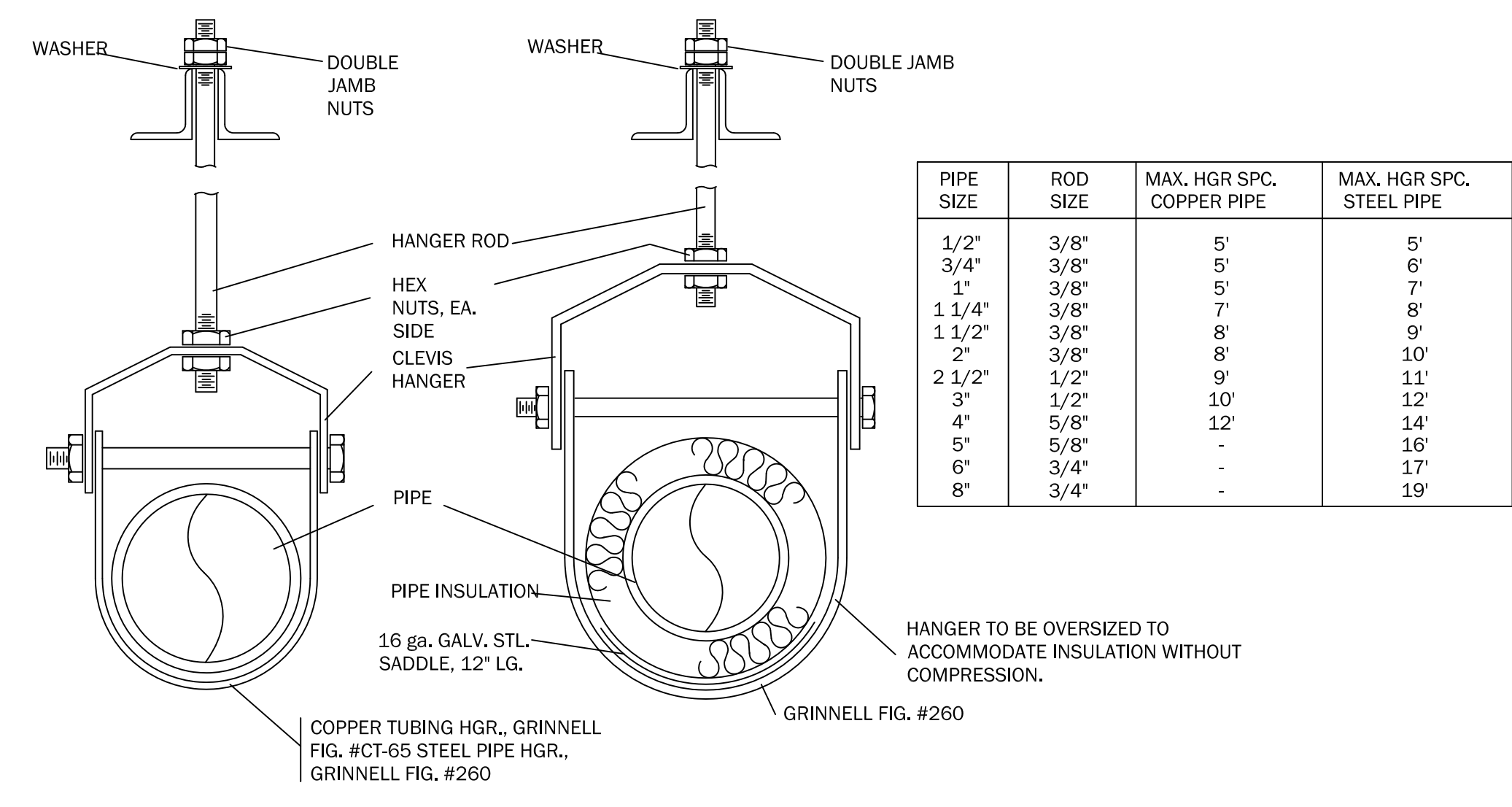
HVAC SCHEMATICS & SECTION VIEWS

SHEET NUMBER:
M3.1

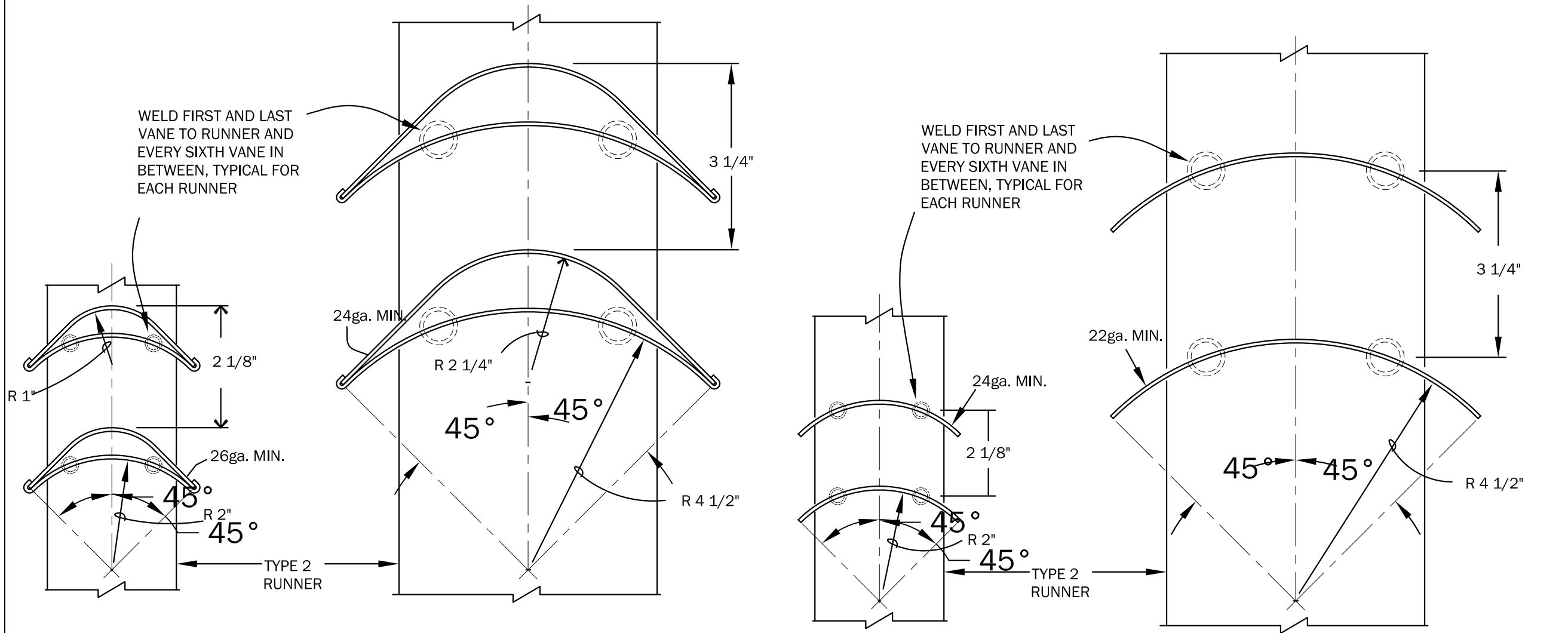


NOTE:
1. AHU-4 & 5 HAVE 3-WAY MODULATING VALVES, PROVIDE ADDITIONAL PIPING & ACCESSORIES AS SHOWN.

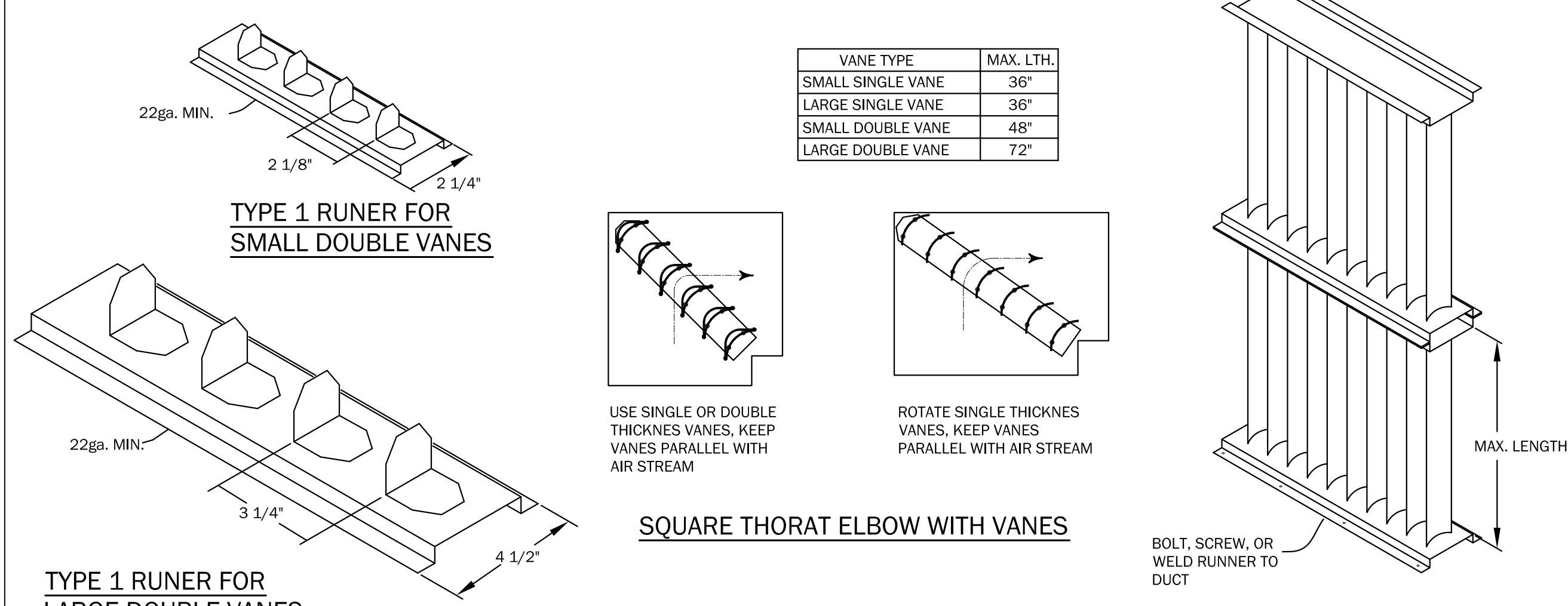
6 AIR HANDLING UNIT COIL PIPING
M4.1 NOT TO SCALE



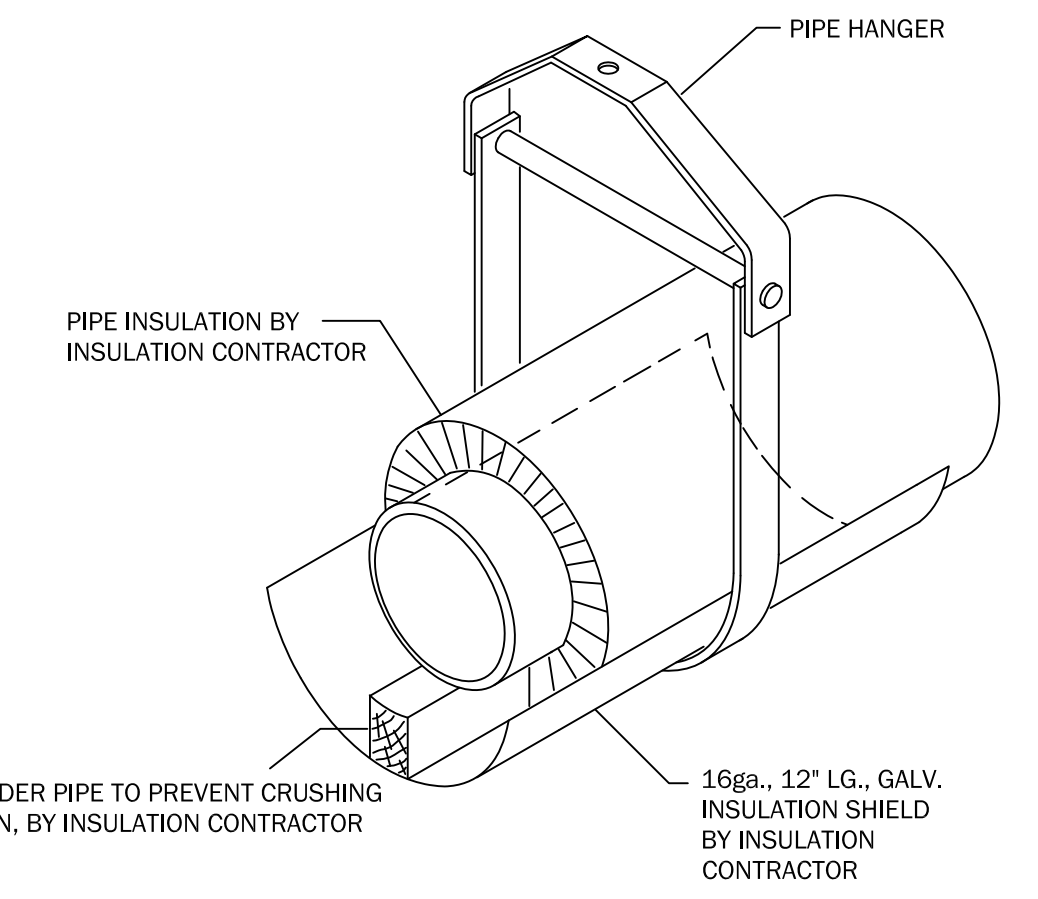
1 DUCT HANGER DETAIL
M4.1 NOT TO SCALE



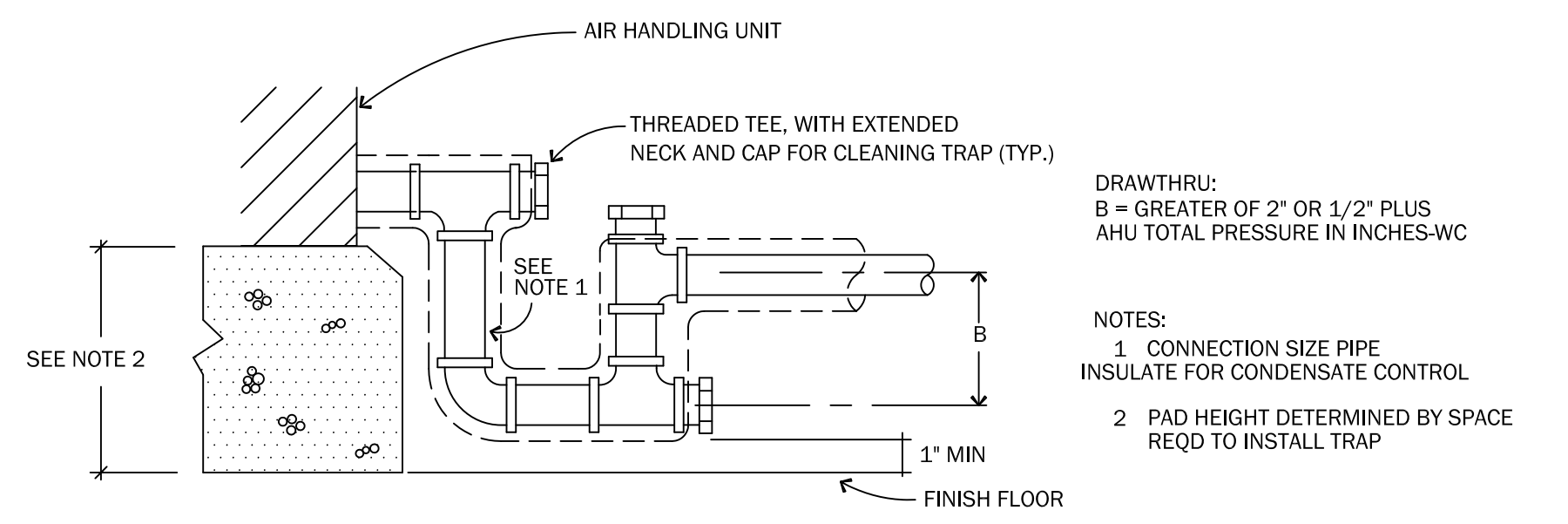
SMALL DOUBLE VANE LARGE DOUBLE VANE SMALL SINGLE VANE LARGE SINGLE VANE



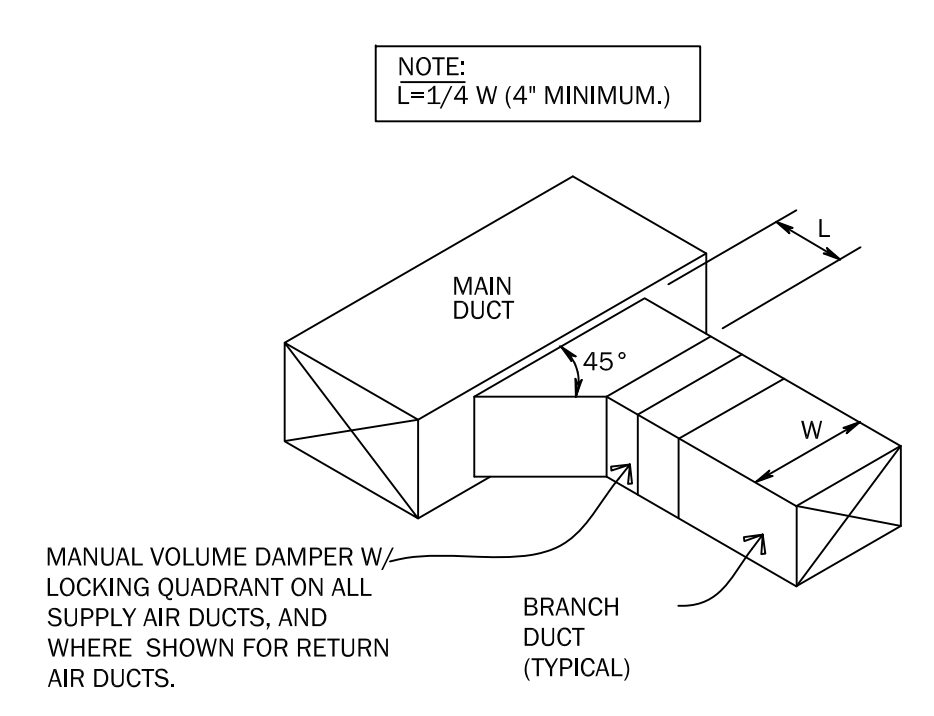
7 TURNING VANE DETAIL
M4.1 NOT TO SCALE



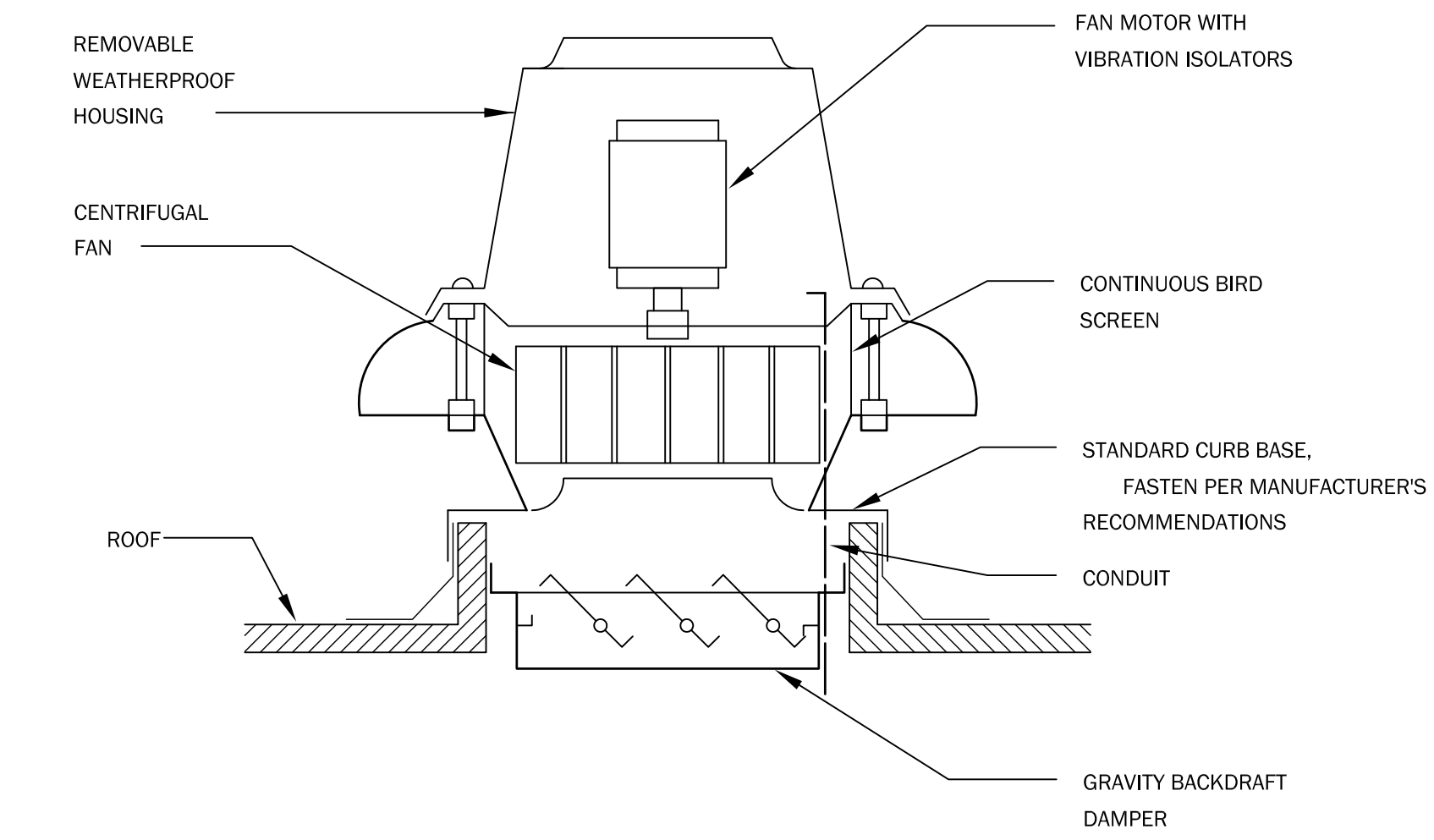
4 PIPE SUPPORT DETAIL
M4.1 NOT TO SCALE



2 CONDENSATE DRAIN TRAP DETAIL
M4.1 NOT TO SCALE



5 45° BRANCH DUCT TAKE OFF DETAIL
M4.1 NOT TO SCALE



3 POWER ROOF VENTILATOR
M4.1 NOT TO SCALE

DRAWING REVISIONS

NO.	REMARKS	DATE



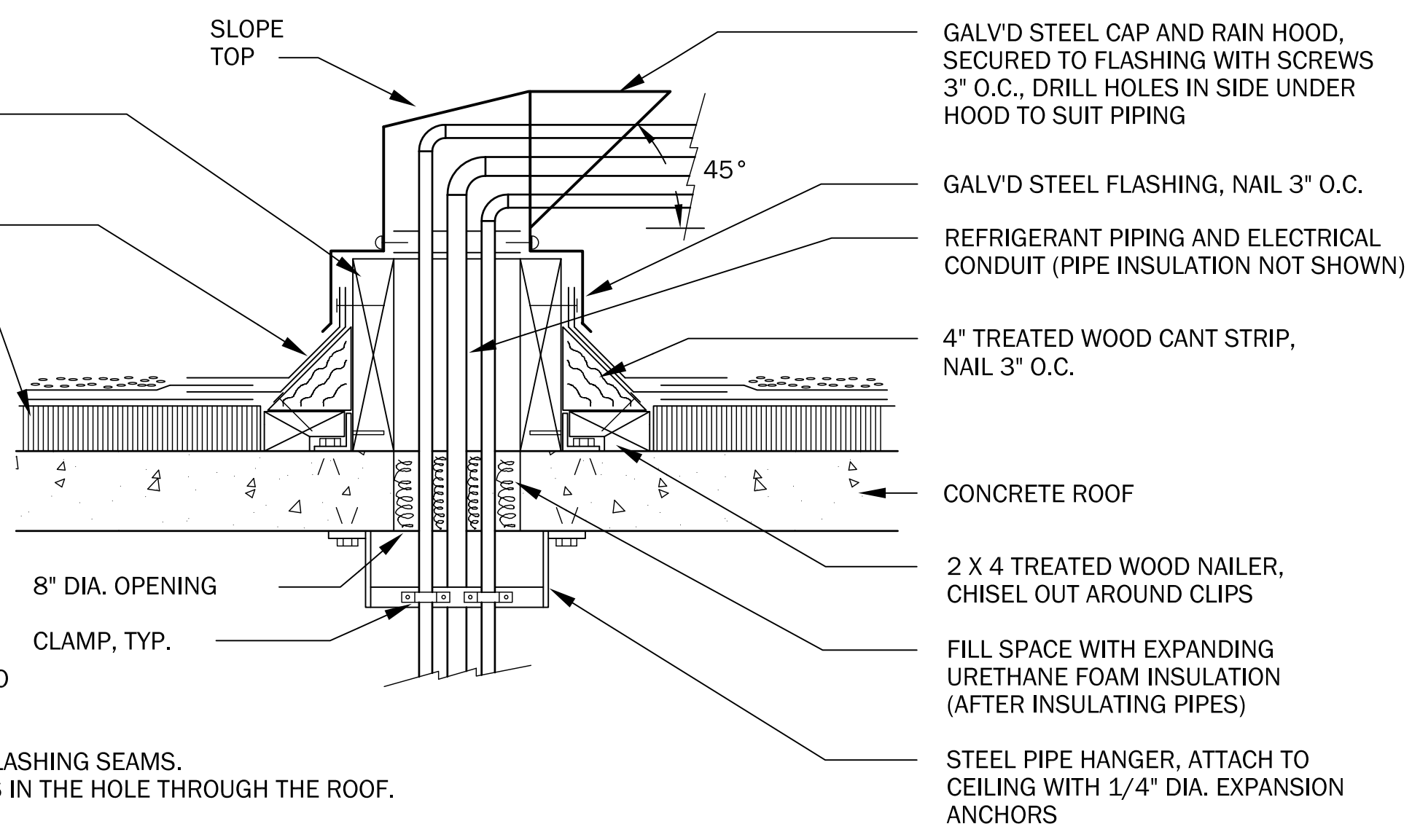
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DESIGNED BY: DSD DATE: JUNE 08, 2012
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P&H NAME: DRAWING TITLE:

HVAC DETAILS
SHEET NUMBER:
M4.1

2 X 10 TREATED WOOD BLOCKING,
SECURE TO ROOF WITH STEEL ANGLE
CLIPS USING 1/4" DIA. LAG SCREWS
AND EXPANSION ANCHORS

2 LAYERS OF 15 LB. FELT STRIPPING,
SET IN PLASTIC CEMENT AND INTERLACED
WITH EXISTING ROOFING

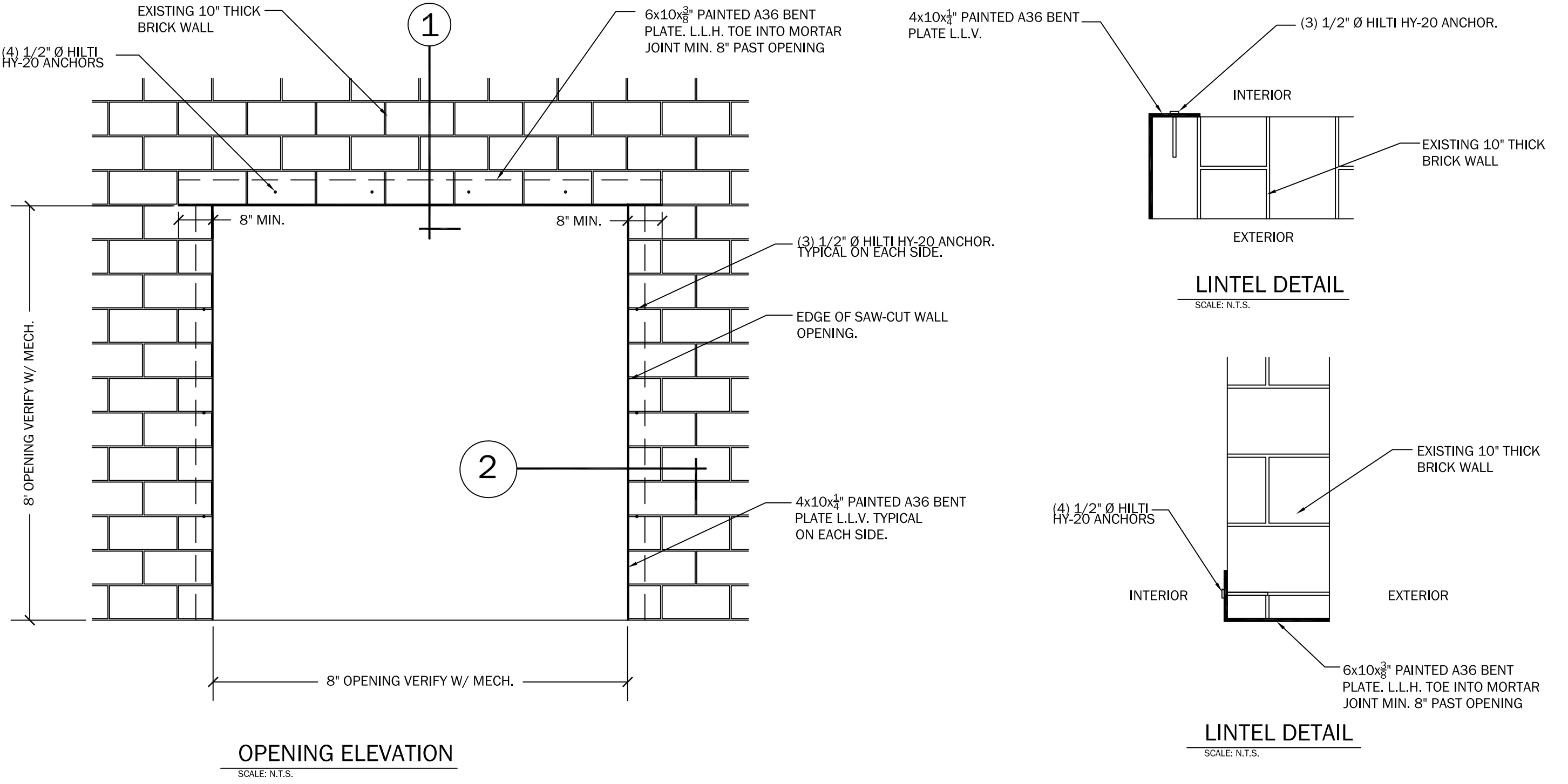
EXISTING INSULATION AND BUILT-UP ROOFING



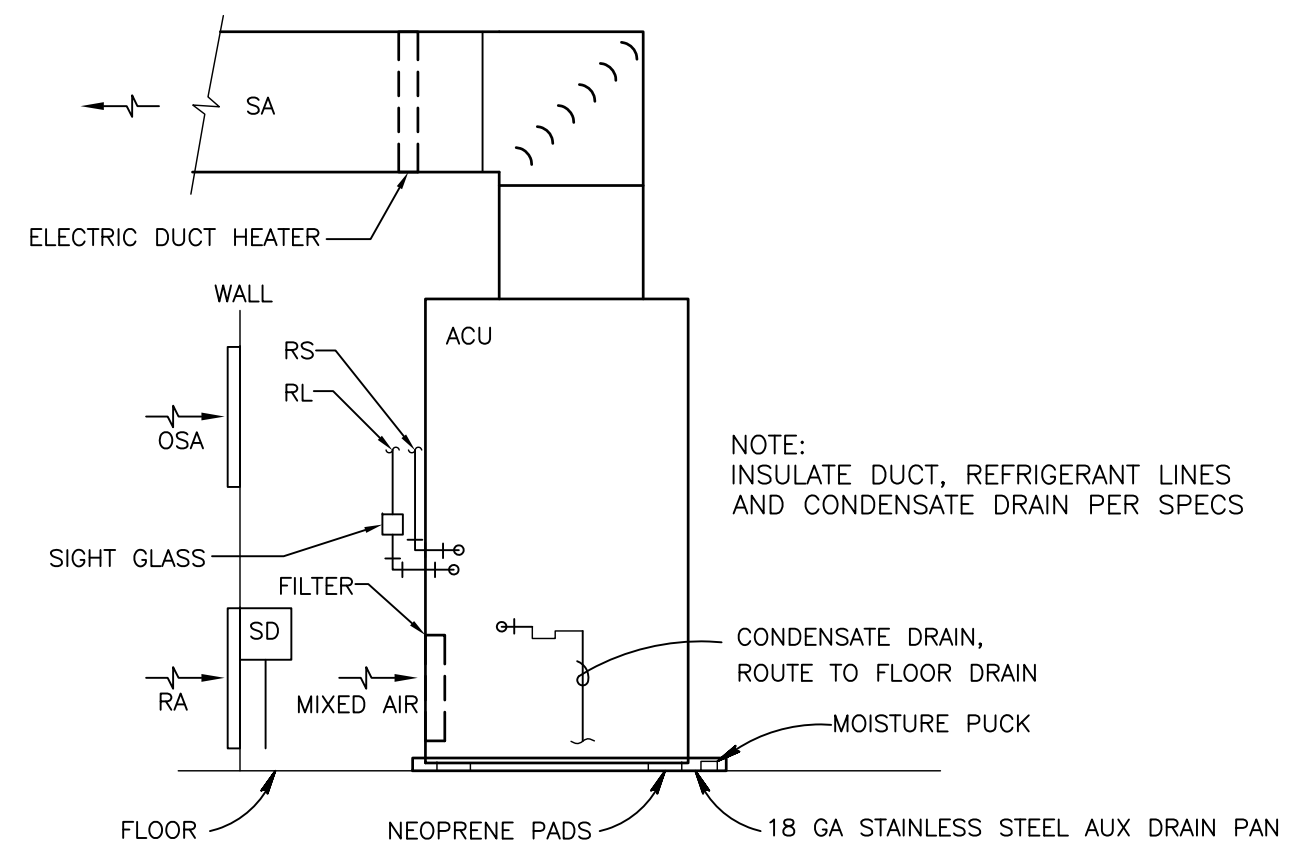
INSTALLATION SEQUENCE

1. CORE DRILL THE HOLE THROUGH THE ROOF.
2. INSTALL THE BLOCKING, CANT, ROOFING, AND FLASHING AS INDICATED.
3. INSTALL THE PIPE HANGER SUPPORT.
4. INSTALL THE VERTICAL SECTIONS OF THE NEW PIPES AND PROVIDE AN ELBOW AND A SHORT LENGTH OF HORIZONTAL PIPING ON EACH PIPE.
5. INSULATE THE INSTALLED SUCTION LINE REFRIGERANT PIPE.
6. INSTALL THE PORTION OF ELECTRICAL CONDUIT THAT WILL PASS THROUGH THE NEW ROOF OPENING AND HOODED FLASHING CAP.
7. DRILL THREE SEPARATE HOLES IN THE HOODED FLASHING CAP FOR THE TWO PIPES AND ONE ELECTRICAL CONDUIT.
8. INSTALL THE HOODED FLASHING CAP.
9. CAULK AROUND THE PIPE AND CONDUIT HOLES IN THE CAP AND ALSO ALL FLASHING SEAMS.
10. SPRAY URETHANE FOAM INSULATION IN THE VOID SPACE AROUND THE PIPES IN THE HOLE THROUGH THE ROOF.
11. INSTALL REMAINING PIPING AND CONDUIT.

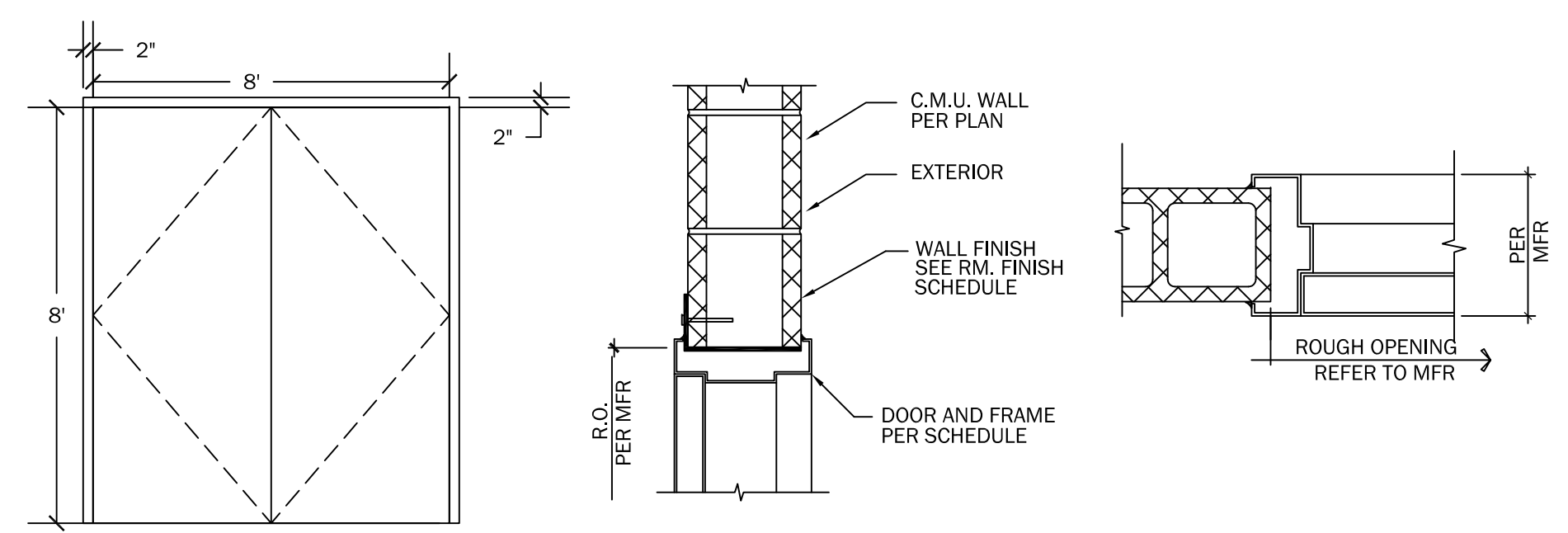
6 PIPING AND CONDUIT ROOF PENETRATION
M4.2 NOT TO SCALE



2 DOOR OPENING STRUCTURAL DETAIL
M4.2 NOT TO SCALE

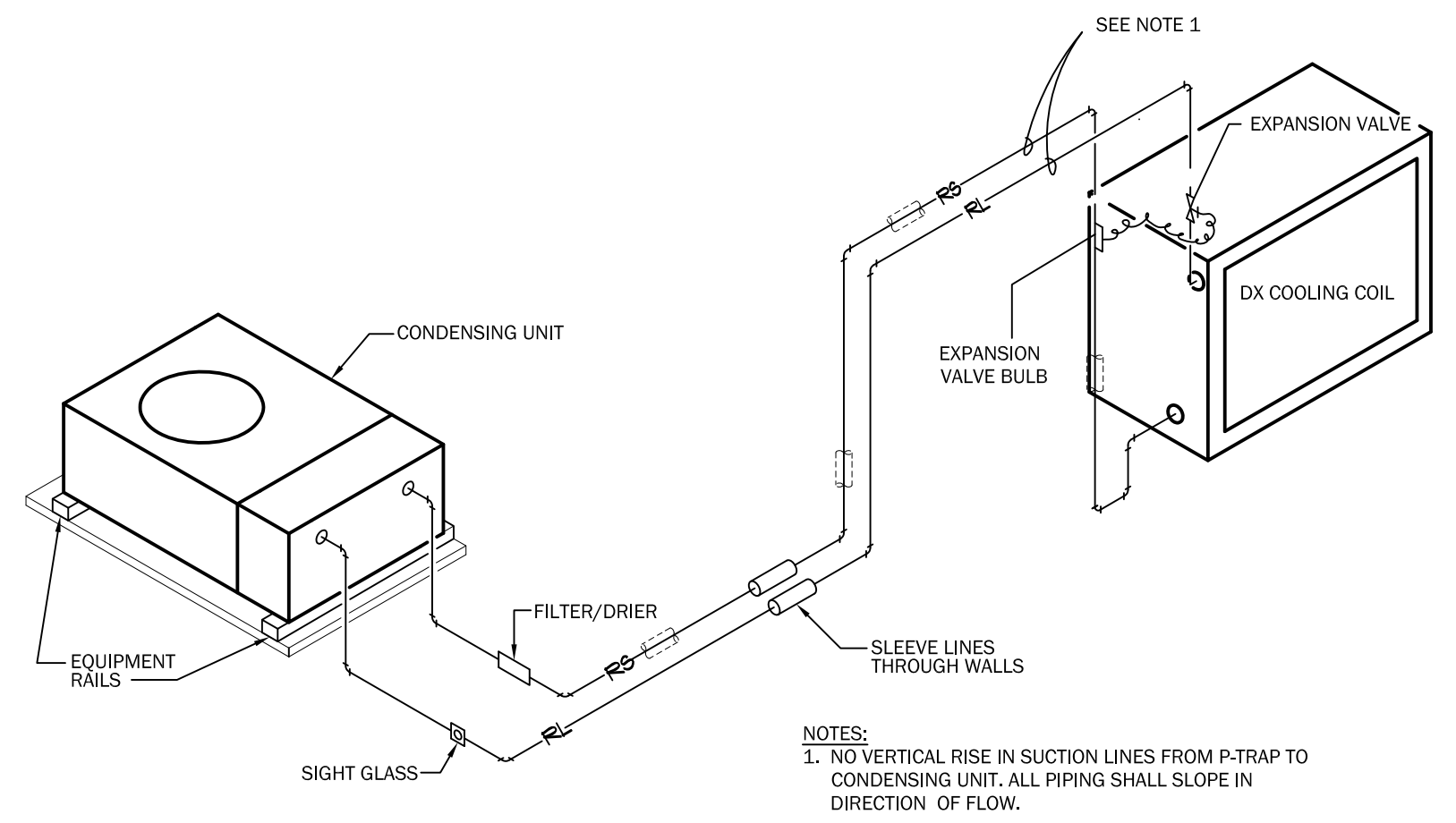


4 ACU-1&2 DETAIL
M4.2 NOT TO SCALE



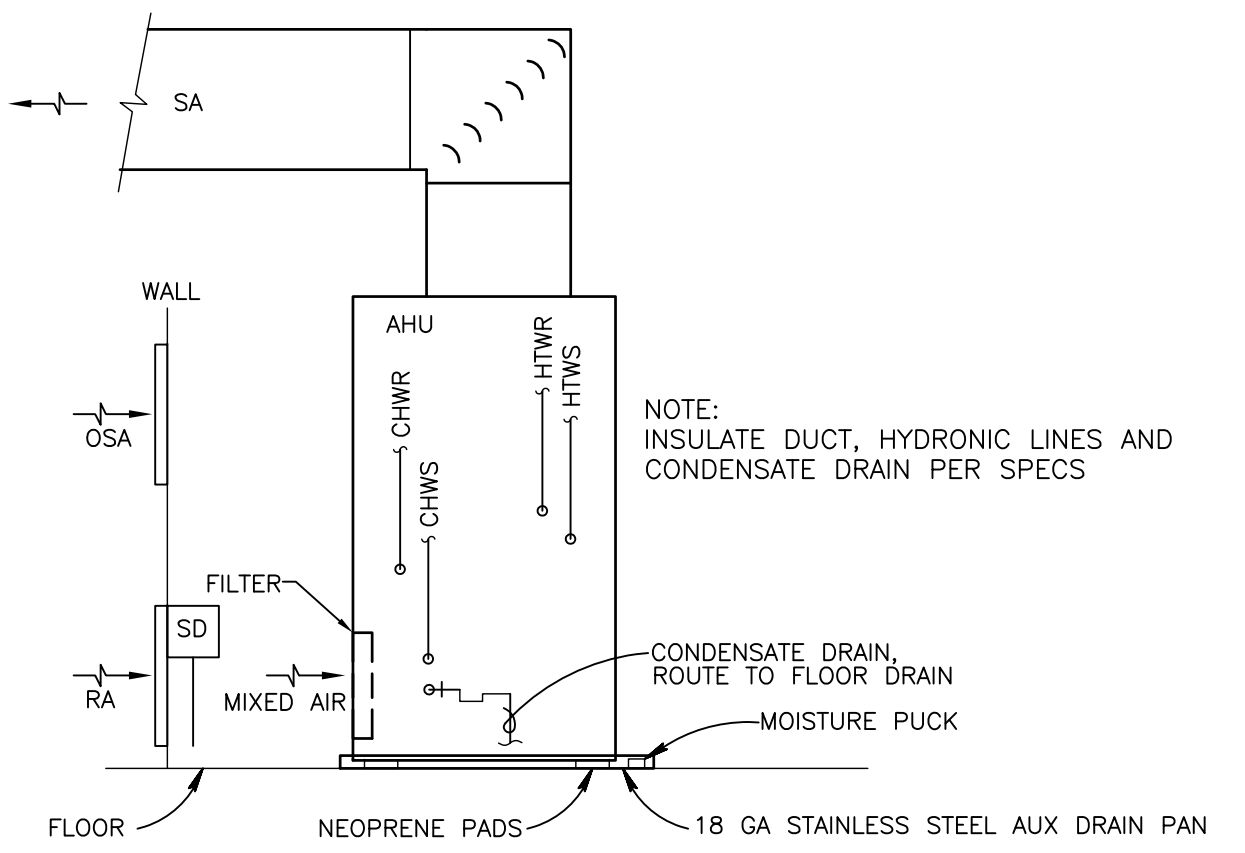
- NOTES:**
1. EXTERIOR METAL DOORS SHALL BE INSULATED ASTM A 1008, ASTM A653, TYPE B WITH AN A60 ZINC-IRON-ALLOY (GALVANEALD) COATING. ALL FRAMES WELDED 16 GA., DOORS ANSI 250.8 16 GA MINIMUM.
 2. HARDWARE SET TO MEET LOCAL CODE, ACCESSIBILITY STANDARDS AND A.D.A. REQUIREMENTS.
 3. LANDINGS ARE TO BE FLUSH WITH FINISH FLOOR.
 4. ALL DOOR ROUGH OPENINGS TO BE PER MANUFACTURERS WRITTEN INSTRUCTIONS.
 5. INSTALLATION OF ALL DOORS TO BE PER MANUFACTURERS WRITTEN INSTRUCTIONS.
 6. DOOR TYPES, MODELS, HARDWARE, FINISH, ETC. TO BE APPROVED BY OWNER. REFER TO PROJECT MANUAL/SPECIFICATION.
 7. EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE FACTORY PRIMED AND SHALL RECEIVE EXTERIOR GRADE GLOSS ENAMEL. COLOR PER OWNER.
 8. CONTRACTOR TO VERIFY ALL ROUGH OPENING DIMENSION REQUIREMENTS AND COORDINATED WITH ACTUAL SIZES OF FRAMES REQUIRED.
 9. DOOR SHALL BE SEALED AIR TIGHT.

1 DOOR DETAIL
M4.2 NOT TO SCALE



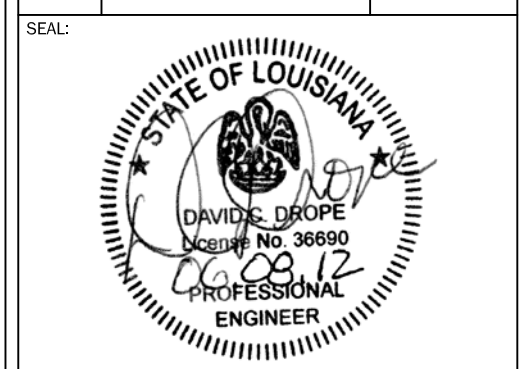
NOTES:
1. NO VERTICAL RISE IN SUCTION LINES FROM P-TRAP TO CONDENSING UNIT. ALL PIPING SHALL SLOPE IN DIRECTION OF FLOW.

5 CONDENSING UNIT & RL/RS PIPING
M4.2 NOT TO SCALE



3 AHU-1 TRHU 6 DETAIL
M4.2 NOT TO SCALE

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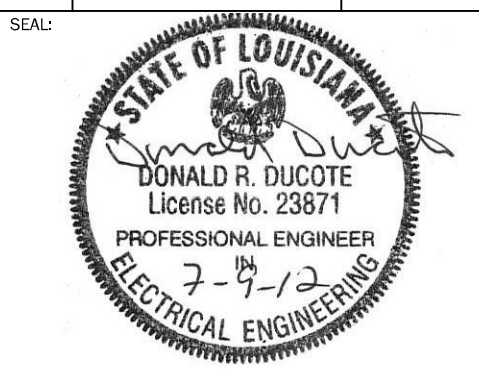


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HVAC DETAILS

SHEET NUMBER:
M4.2

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: SJC	SCALE: AS NOTED
DESIGNED BY: KK	DATE: JULY 9, 2012
CHECKED BY: DRD	PROJECT: 2011-0876-0001
PATH NAME:	
DRAWING TITLE:	

FIRST FLOOR
ELECTRICAL PLAN

Infinity
Engineering Consultants, LLC
NEW ORLEANS, LA 70112
504-304-0548
IEC JOB No. 12-015

E1.1

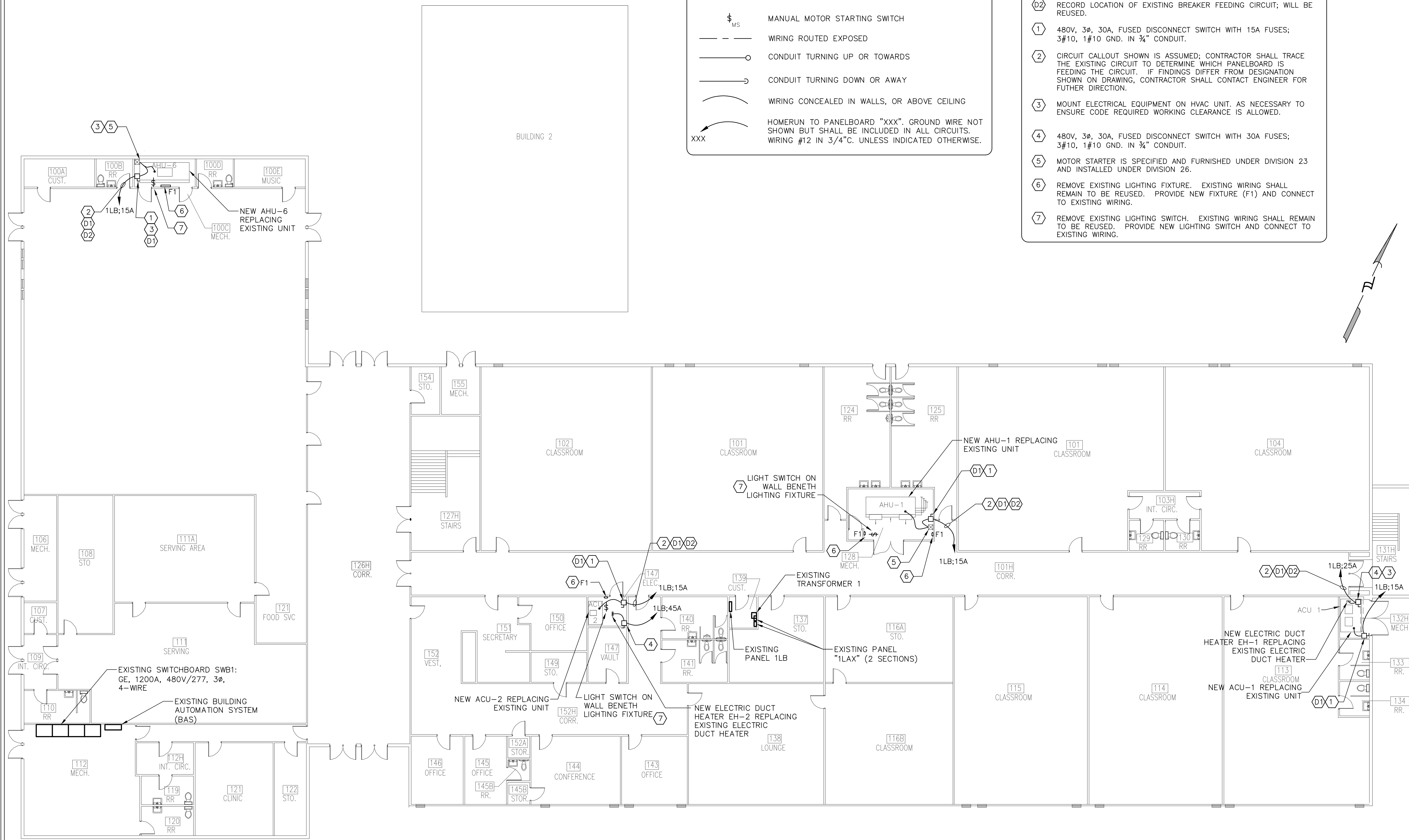
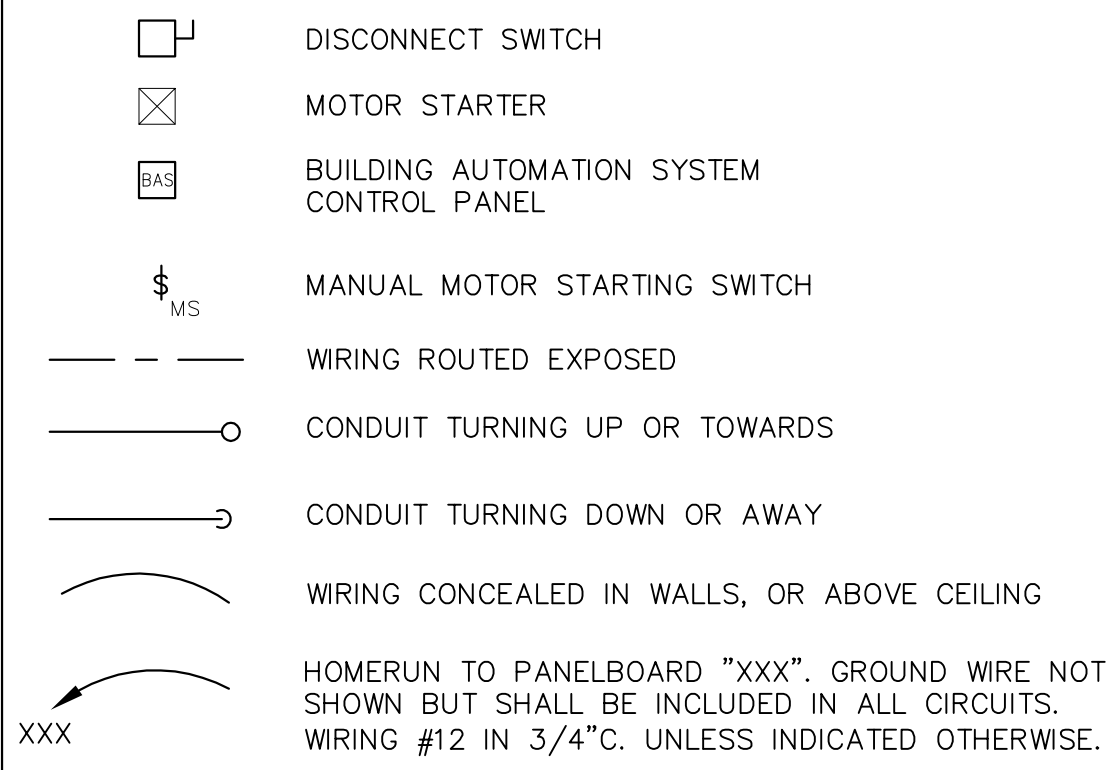
GENERAL NOTES:

- ALL CONDUIT AND WIRE INSIDE THE BUILDING SHALL BE CONCEALED FROM VIEW. EXPOSED CONDUIT AND WIRE ARE NOT ACCEPTABLE EXCEPT IN EQUIPMENT AND STORAGE ROOMS; UNLESS SPECIFIC PRIOR APPROVAL HAS BEEN ISSUED BY ENGINEER.
- SWITCHES/STARTERS FOR MECH. AND OTHER EQUIPMENT LOCATION OF DISCONNECT SWITCHES, STARTERS, CONTROL STATIONS ETC. ARE SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. INSTALL SUCH DEVICES IN COMPLIANCE WITH CODE REQUIRED CLEARANCE REQUIREMENTS. ALL SUCH DEVICES SHALL BE ACCESSIBLE AFTER AFTER EQUIPMENT ARE IN PLACE AND SATISFY CODE CLEARANCE REQUIREMENTS. REMOVE AND REINSTALL DEVICES THAT ARE INACCESSIBLE OR WITH INADEQUATE CODE CLEARANCE AT NO ADDITIONAL COST TO OWNER.
- HVAC EQUIPMENT: OVERCURRENT DEVICES, DISCONNECT SWITCHES, CONDUIT/WIRE ARE SELECTED BASED ON EQUIPMENT SHOWN ON MECHANICAL DRAWINGS. FIELD VERIFY RATINGS OF EQUIP. SUPPLIED BY HVAC. REVISE ELECTRICAL AS REQUIRED TO MATCH ACTUAL EQUIPMENT SUPPLIED BY MECHANICAL CONTRACTOR.
- LOCATION OF CONNECTION POINTS FOR HVAC UNITS, ETC., ARE APPROXIMATE. EXACT LOCATION OF CONNECTION POINTS AND QUANTITY SHALL BE DETERMINED BASED ON APPROVED SHOP DRAWINGS FOR THE REFERENCED EQUIPMENT.
- PROVIDE U.L. LISTED AND APPROVED MODIFIED LUGS ON DISCONNECT SWITCHES AND/OR MAGNETIC STARTERS THAT HAVE TO ACCEPT CONDUCTORS LARGER THAN STANDARD LUG SIZES CAN ACCOMMODATE.
- DO NOT MOUNT ANY DISCONNECT SWITCHES, STARTERS, ETC., ON ANY MECHANICAL EQUIPMENT OR HVAC DUCTS UNLESS SPECIFICALLY INDICATED ON THE DRAWING. PROVIDE UNISTRUT BACKS FOR MOUNTING OF THIS EQUIPMENT. UNISTRUT INSTALLED IN DAMP OR WET LOCATIONS TO BE HOT DIPPED GALVANIZED. MOUNT THIS EQUIPMENT WITH A MINIMUM OF 1" FROM ANY SURFACES. SUBMIT SHOP DRAWINGS FOR APPROVAL OF ENGINEER FOR EACH INDIVIDUAL RACK LOCATION.
- DO NOT LAY ANY SPECIAL SYSTEMS CABLING, RACEWAYS, ETC., ON CEILING GRID. DO NOT USE CEILING SUPPORTS FOR ANY WIRING METHOD SUPPORTS.
- ALL FUSES ON THIS PROJECT TO BE OF THE SAME MANUFACTURER. ALL FUSES IN EACH INDIVIDUAL DISCONNECT SWITCHES SHALL BE OF THE SAME IDENTICAL TYPE, AMPERAGE AND VOLTAGE RATING. ALL FUSES SHALL BE INSTALLED RIGHT SIDE UP, AND WITH THE AMPERAGE LABEL FACING OUT. FUSES OUTDOORS OR IN WET LOCATIONS SHALL BE INSTALLED USING OXIDATION INHIBITING COMPOUND (PENETROX OR EQUAL) IN ALL FUSE HOLDERS.
- LABEL ALL DEVICES WITH PANEL DESIGNATION, CIRCUIT NUMBER AND VOLTAGE. LABELING TO BE ACCOMPLISHED BY ENGRAVING FACEPLATES. SUBMIT METHOD OF ENGRAVING, STYLE AND HEIGHT FOR APPROVAL.
- ALL EQUIPMENT FURNISHED AND ALL WORK SHALL BE IN STRICT CONFORMITY WITH ELECTRICAL SECTION OF REGULATORY INSPECTIONS FOR THE GOVERNING PARISH, COUNTY, OR STATE FIRE MARSHALL, N.E.C. MOST RECENT EDITION & ALL OTHER APPLICABLE LAWS, ORDINANCES, CODES & RULES OF CONSTRUCTION APPLICABLE IN THE LOCALITY OF WORK.
- PERMITS, CERTIFICATES OF INSPECTION AND APPROVAL AS APPLICABLE TO THE VARIOUS PORTIONS OF THE WORK SHALL BE OBTAINED FROM THE INSPECTION AGENCY HAVING JURISDICTION THEREON AND SHALL BE DELIVERED TO THE ENGINEER PRIOR TO ACCEPTANCE OF THE WORK. PAY ALL FEES REQUIRED IN CONNECTION WITH VARIOUS INSPECTIONS AND PERMITS.
- ELECTRICAL PLANS SHOW GENERAL WORK TO BE PERFORMED BY CONTRACTOR AND HAS BEEN PREPARED TO ASSIST THE CONTRACTOR IN PREPARING HIS PROPOSED COST FOR THE TOTAL PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND FINAL BID PRICE.
- EACH BRANCH CIRCUIT AND/OR FEEDER SHALL HAVE A GREEN INSULATED EQUIPMENT GROUND CONDUCTOR.
- ALL PENETRATIONS THROUGH PARTITIONS, CEILINGS, FLOORS, ETC., SHALL BE PROPERLY SEALED TO MAINTAIN FIRE RATING OF CEILING, FLOOR, PARTITIONS, ETC.
- UPON COMPLETION, CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS OF ALL VARIATIONS OF EXISTING PLANS TO OWNER.
- UPON COMPLETION OF THE WORK, TEST THE NEW INDIVIDUAL SYSTEMS, INCLUDING ALL FEEDERS WITH A 500 VOLT DC INSULATION TESTER (WITH A 0-200 MEGOHM FULL SCALE.) ALL CONDUCTORS SHALL HAVE INSULATION TESTED WHEN WIRING SYSTEM IS COMPLETE AND A LOG KEPT OF THE CIRCUIT NAME, DATE AND MEGGER READINGS.
- RECORD FEEDER AND/OR CIRCUIT NAME, READING IN OHMS, AND SUBMIT REPORT TO ARCHITECT CHECK FOR PROPER PHASE ROTATION. ALL TEST REPORTS SHALL BE TYPED, PROVIDE ALL INSTRUMENTS, LABOR, ETC. REQUIRED FOR TESTING. ALL TESTING SHALL BE OBSERVED BY THE OWNER AND/OR REPRESENTATIVES OF OWNER.
- UPON COMPLETION OF ALL TESTS AND ACCEPTANCE, FURNISH THE OWNER A WRITTEN GUARANTEE COVERING THE ELECTRICAL WORK DONE AND EQUIPMENT INSTALLED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. DURING THE GUARANTEE PERIOD THE CONTRACTOR SHALL RECTIFY AND REPLACE ANY DEFECTIVE MATERIAL OR WORKMANSHIP AND REPAIR DAMAGE CAUSED THEREBY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- WHERE OVERSIZED CONDUITS OR CONDUCTORS ARE INDICATED, THE CONDUIT AND WIRE SIZE SHALL BE INSTALLED THROUGHOUT THE ENTIRE CIRCUIT.
- MECHANICAL EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATION WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO START OF ROUGH-IN.
- ALL ELECTRICAL SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE 2008 OF EDITION NFPA 70, NATIONAL ELECTRICAL CODE.
- ALL DISCONNECTS (FUSIBLE AND UNFUSIBLE) SHALL BE HEAVY DUTY TYPE AND LOCKABLE.

SPECIFIC NOTES (THIS SHEET):

- DISCONNECT AND REMOVE EXISTING FUSED DISCONNECT SWITCH, MOTOR STARTER/CONTROLLER, AND ALL OTHER ELECTRICAL COMPONENTS ASSOCIATED WITH EXISTING HVAC UNIT. DISCONNECT AND COMPLETELY REMOVE EXISTING CONDUIT AND WIRE FROM EXISTING DISCONNECT SWITCH AND/OR MOTOR STARTER/CONTROLLER BACK TO EXISTING PANELBOARD.
- RECORD LOCATION OF EXISTING BREAKER FEEDING CIRCUIT; WILL BE REUSED.
- 480V, 3Ø, 30A, FUSED DISCONNECT SWITCH WITH 15A FUSES; 3#10, 1#10 GND. IN 3/4" CONDUIT.
- CIRCUIT CALLOUT SHOWN IS ASSUMED; CONTRACTOR SHALL TRACE THE EXISTING CIRCUIT TO DETERMINE WHICH PANELBOARD IS FEEDING THE CIRCUIT. IF FINDINGS DIFFER FROM DESIGNATION SHOWN ON DRAWING, CONTRACTOR SHALL CONTACT ENGINEER FOR FURTHER DIRECTION.
- MOUNT ELECTRICAL EQUIPMENT ON HVAC UNIT, AS NECESSARY TO ENSURE CODE REQUIRED WORKING CLEARANCE IS ADEQUATE.
- 480V, 3Ø, 30A, FUSED DISCONNECT SWITCH WITH 30A FUSES; 3#10, 1#10 GND. IN 3/4" CONDUIT.
- MOTOR STARTER IS SPECIFIED AND FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER DIVISION 26.
- REMOVE EXISTING LIGHTING FIXTURE. EXISTING WIRING SHALL REMAIN TO BE REUSED. PROVIDE NEW FIXTURE (F1) AND CONNECT TO EXISTING WIRING.
- REMOVE EXISTING LIGHTING SWITCH. EXISTING WIRING SHALL REMAIN TO BE REUSED. PROVIDE NEW LIGHTING SWITCH AND CONNECT TO EXISTING WIRING.

PLAN DRAWING SYMBOLS:



FIRST FLOOR – ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"

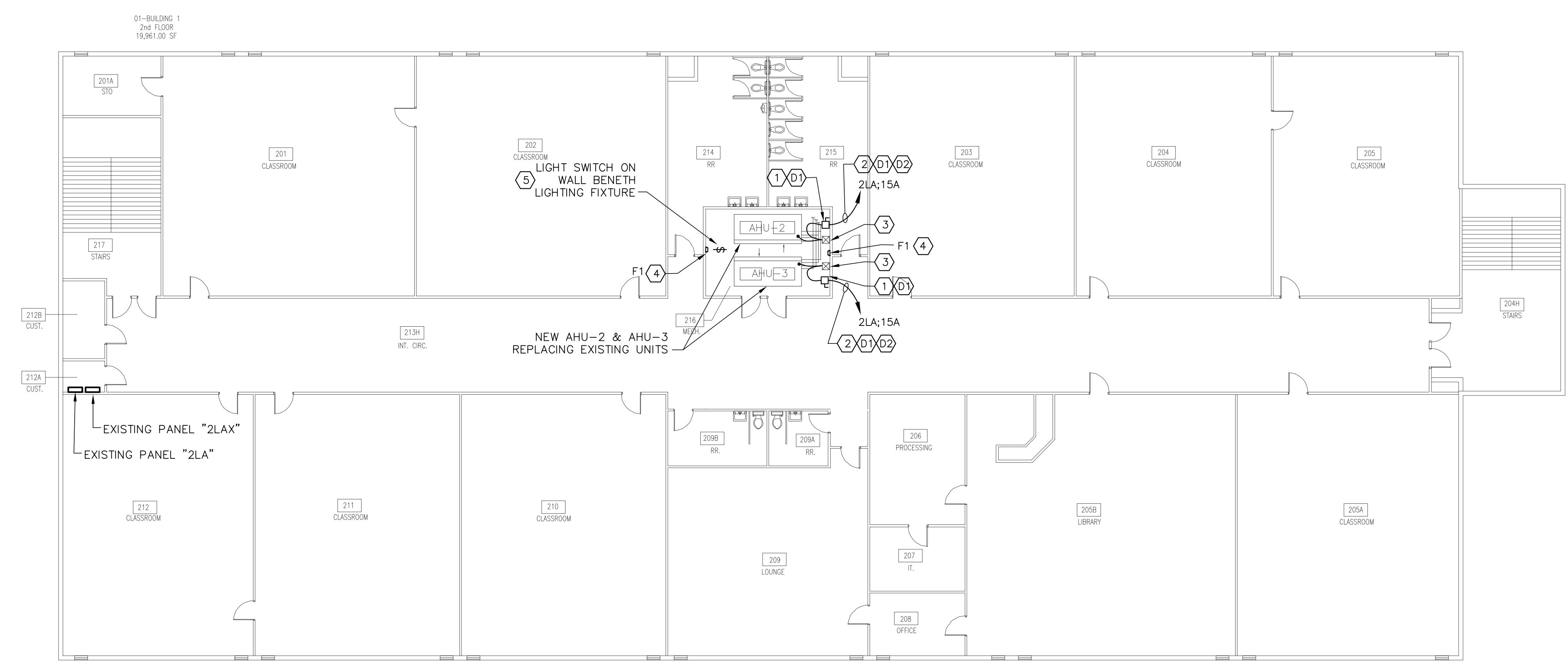
SPECIFIC NOTES (THIS SHEET):

- ① DISCONNECT AND REMOVE EXISTING FUSED DISCONNECT SWITCH, MOTOR STARTER/CONTROLLER, AND ALL OTHER ELECTRICAL COMPONENTS ASSOCIATED WITH EXISTING HVAC UNIT. DISCONNECT AND COMPLETELY REMOVE EXISTING CONDUIT AND WIRE FROM EXISTING DISCONNECT SWITCH AND/OR MOTOR STARTER/CONTROLLER BACK TO EXISTING PANELBOARD.
- ② RECORD LOCATION OF EXISTING BREAKER FEEDING CIRCUIT; WILL BE REUSED.
- ③ 480V, 3Ø, 30A, FUSED DISCONNECT SWITCH WITH 15A FUSES; 3#10, 1#10 GND. IN ¾" CONDUIT.
- ④ CIRCUIT CALLOUT SHOWN IS ASSUMED; CONTRACTOR SHALL TRACE THE EXISTING CIRCUIT TO DETERMINE WHICH PANELBOARD IS FEEDING THE CIRCUIT. IF FINDINGS DIFFER FROM DESIGNATION SHOWN ON DRAWING, CONTRACTOR SHALL CONTACT ENGINEER FOR FURTHER DIRECTION.
- ⑤ MOTOR STARTER IS SPECIFIED AND FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER DIVISION 26.
- ⑥ REMOVE EXISTING LIGHTING FIXTURE. EXISTING WIRING SHALL REMAIN TO BE REUSED. PROVIDE NEW FIXTURE (F1) AND CONNECT TO EXISTING WIRING.
- ⑦ REMOVE EXISTING LIGHTING SWITCH. EXISTING WIRING SHALL REMAIN TO BE REUSED. PROVIDE NEW LIGHTING SWITCH AND CONNECT TO EXISTING WIRING.



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NEW ORLEANS, LA 70125



SECOND FLOOR – ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: SJC SCALE: AS NOTED
DESIGNED BY: KIK DATE: JULY 9, 2012
CHECKED BY: DRD PROJECT: 2011-0876-0001
PATH NAME:
DRAWING TITLE:

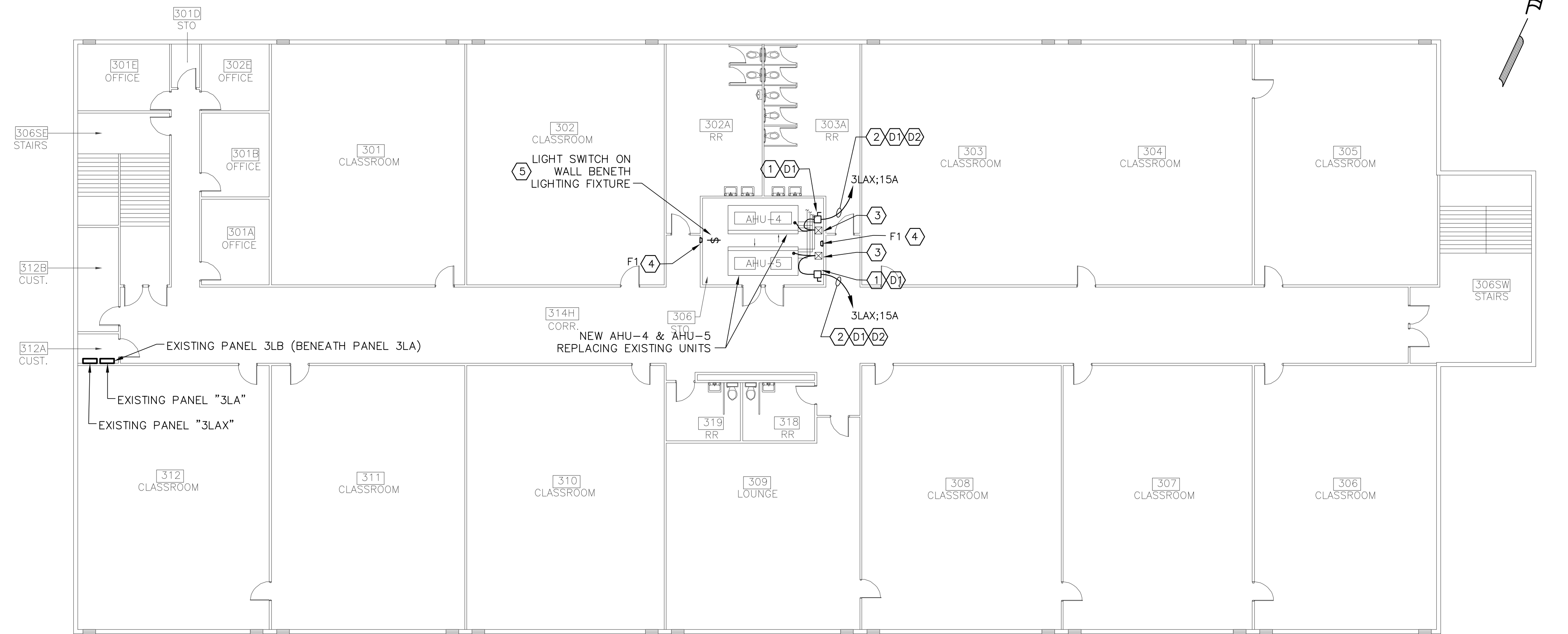
SECOND FLOOR
ELECTRICAL PLAN



SHEET NUMBER:
E1.2

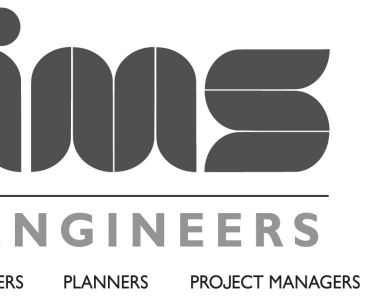
SPECIFIC NOTES (THIS SHEET):

- (D1) DISCONNECT AND REMOVE EXISTING FUSED DISCONNECT SWITCH, MOTOR STARTER/CONTROLLER, AND ALL OTHER ELECTRICAL COMPONENTS ASSOCIATED WITH EXISTING HVAC UNIT. DISCONNECT AND COMPLETELY REMOVE EXISTING CONDUIT AND WIRE FROM EXISTING DISCONNECT SWITCH AND/OR MOTOR STARTER/CONTROLLER BACK TO EXISTING PANELBOARD.
- (D2) RECORD LOCATION OF EXISTING BREAKER FEEDING CIRCUIT; WILL BE REUSED.
- (1) 480V, 3Ø, 30A, FUSED DISCONNECT SWITCH WITH 15A FUSES; 3#10, 1#10 GND. IN ¾" CONDUIT.
- (2) CIRCUIT CALLOUT SHOWN IS ASSUMED; CONTRACTOR SHALL TRACE THE EXISTING CIRCUIT TO DETERMINE WHICH PANELBOARD IS FEEDING THE CIRCUIT. IF FINDINGS DIFFER FROM DESIGNATION SHOWN ON DRAWING, CONTRACTOR SHALL CONTACT ENGINEER FOR FURTHER DIRECTION.
- (3) MOTOR STARTER IS SPECIFIED AND FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER DIVISION 26.
- (4) REMOVE EXISTING LIGHTING FIXTURE. EXISTING WIRING SHALL REMAIN TO BE REUSED. PROVIDE NEW FIXTURE (F1) AND CONNECT TO EXISTING WIRING.
- (5) REMOVE EXISTING LIGHTING SWITCH. EXISTING WIRING SHALL REMAIN TO BE REUSED. PROVIDE NEW LIGHTING SWITCH AND CONNECT TO EXISTING WIRING.



THIRD FLOOR – ELECTRICAL PLAN

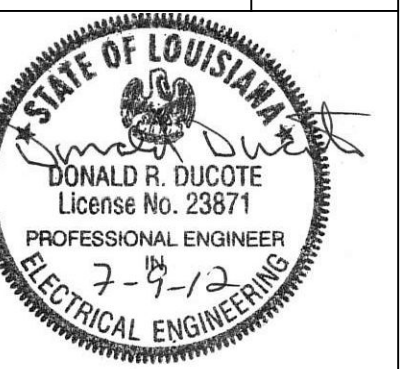
SCALE: 3/32" = 1'-0"



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**AHU REPLACEMENT AT SYLVANIE WILLIAMS
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3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125**

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: SIC	SCALE: AS NOTED
DESIGNED BY: KK	DATE: JULY 9, 2012
CHECKED BY: DRD	PROJECT: 2011-0876-0001
PATH NAME:	
DRAWING TITLE:	

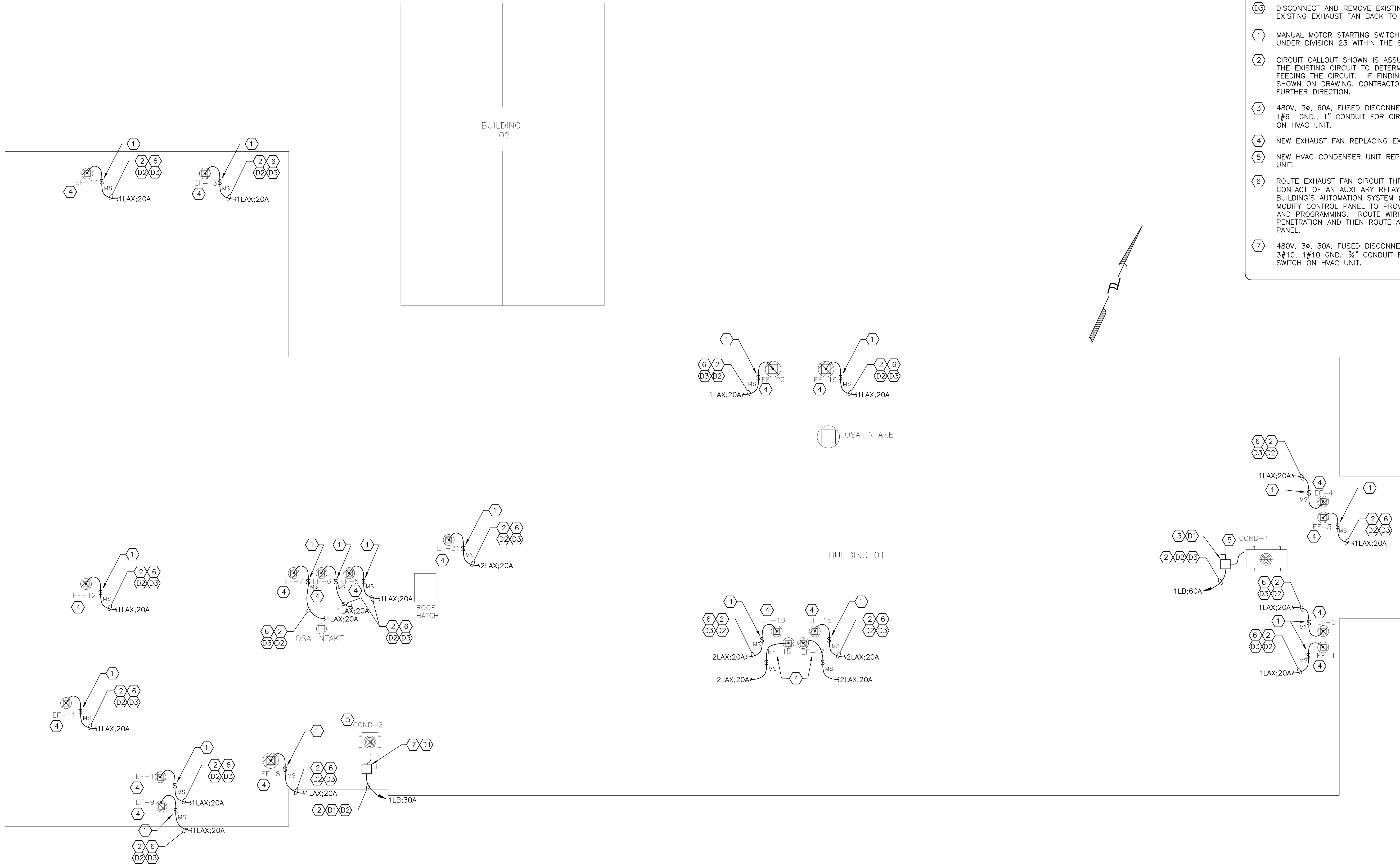
THIRD FLOOR
ELECTRICAL PLAN

SHEET NUMBER:
E1.3



SPECIFIC NOTES (THIS SHEET):

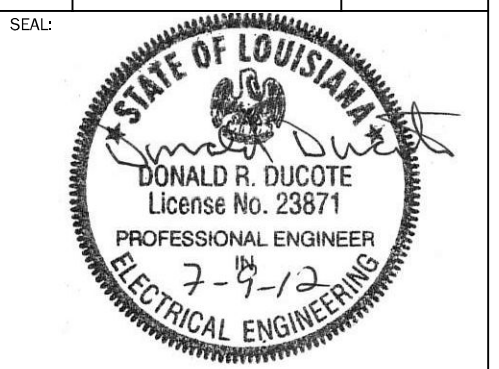
- (D1) DISCONNECT AND REMOVE EXISTING FUSED DISCONNECT SWITCH, AND ALL OTHER ELECTRICAL COMPONENTS ASSOCIATED WITH EXISTING CONDENSER UNIT. DISCONNECT AND COMPLETELY REMOVE EXISTING CONDUIT AND WIRE FROM EXISTING DISCONNECT SWITCH AND/OR MOTOR STARTER/CONTROLLER BACK TO EXISTING PANELBOARD.
- (D2) RECORD LOCATION OF EXISTING BREAKER FEEDING CIRCUIT; WILL BE REUSED.
- (D3) DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRE FROM EXISTING EXHAUST FAN BACK TO EXISTING PANELBOARD.
- (1) MANUAL MOTOR STARTING SWITCH IS SPECIFIED WITH EXHAUST FAN UNDER DIVISION 23 WITHIN THE SPECIFICATIONS.
- (2) CIRCUIT CALLOUT SHOWN IS ASSUMED; CONTRACTOR SHALL TRACE THE EXISTING CIRCUIT TO DETERMINE WHICH PANELBOARD IS FEEDING THE CIRCUIT. IF FINDINGS DIFFER FROM DESIGNATION SHOWN ON DRAWING, CONTRACTOR SHALL CONTACT ENGINEER FOR FURTHER DIRECTION.
- (3) 480V, 3Ø, 60A, FUSED DISCONNECT SWITCH WITH 60A FUSES; 3#6, 1#6 GND.; 1" CONDUIT FOR CIRCUIT. MOUNT DISCONNECT SWITCH ON HVAC UNIT.
- (4) NEW EXHAUST FAN REPLACING EXISTING EXHAUST FAN.
- (5) NEW HVAC CONDENSER UNIT REPLACING EXISTING HVAC CONDENSER UNIT.
- (6) ROUTE EXHAUST FAN CIRCUIT THROUGH A "NORMALLY-OPEN" CONTACT OF AN AUXILIARY RELAY IN CONTROL PANEL FOR BUILDING'S AUTOMATION SYSTEM (BAS). BAS VENDOR SHALL MODIFY CONTROL PANEL TO PROVIDE REQUIRED RELAYS, WIRING, AND PROGRAMMING. ROUTE WIRING AND CONDUIT THROUGH ROOF PENETRATION AND THEN ROUTE ABOVE CEILINGS TO BAS CONTROL PANEL.
- (7) 480V, 3Ø, 30A, FUSED DISCONNECT SWITCH WITH 30A FUSES, 3#10, 1#10 GND.; ¾" CONDUIT FOR CIRCUIT. MOUNT DISCONNECT SWITCH ON HVAC UNIT.



ROOF – ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: SJC	SCALE: AS NOTED
DESIGNED BY: KK	DATE: JULY 9, 2012
CHECKED BY: DRD	PROJECT: 2011-0876-0001
PATH NAME:	
DRAWING TITLE:	

ROOF
ELECTRICAL PLAN

SHEET NUMBER:
E1.4

PANEL: 1LB LOCATION: ROOM 139 - CUST. FEEDER SOURCE: MAIN SWITCHBOARD		VOLTAGE: 277/480V, 3Ø, 4W ENCLOSURE: NEMA 1, SURFACE MOUNT 225A BUS, M.L.O.			
CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER		LOAD DESCRIPTION LOCATION	CKT. NO.
		POLE	AMP		
1		1	20		2
3		1	20		4
5		1	20		6
7		1	20		8
9		1	20		10
11		1	20		12
13		1	20		14
15		1	20		16
17		1	20		18
19					20
21		3	15		22
23					24
25					26
27		3	30		28
29					30
31					32
33		3	20		34
35					36
37					38
39		3	40		40
41					42

- NEUTRAL BUS GROUND BUS
- NOTES:
- PANELBOARD IS EXISTING.
 - PROVIDE NEW, UPDATED TYPED CIRCUIT DIRECTORY.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING AIR HANDLER AHU-1 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. REMOVE EXISTING BREAKER FROM PANEL.
 - PROVIDE NEW 15A, 3P CIRCUIT BREAKER FOR NEW AIR HANDLER UNIT AHU-1.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING AIR HANDLER AHU-6 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. REMOVE EXISTING BREAKER FROM PANEL.
 - PROVIDE NEW 15A, 3P CIRCUIT BREAKER FOR NEW AIR HANDLER UNIT AHU-6.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING AIR HANDLER ACU-1 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. REMOVE EXISTING BREAKER FROM PANEL.
 - PROVIDE NEW 15A, 3P CIRCUIT BREAKER FOR NEW AIR HANDLER UNIT ACU-1.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING AIR HANDLER ACU-2 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. REMOVE EXISTING BREAKER FROM PANEL.
 - PROVIDE NEW 15A, 3P CIRCUIT BREAKER FOR NEW AIR HANDLER UNIT ACU-2.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING ELECTRIC DUCT HEATER EH-1 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. REMOVE EXISTING BREAKER FROM PANEL.
 - PROVIDE NEW 25A, 3P CIRCUIT BREAKER FOR NEW ELECTRIC DUCT HEATER EH-1.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING ELECTRIC DUCT HEATER EH-2 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. REMOVE EXISTING BREAKER FROM PANEL.
 - PROVIDE NEW 45A, 3P CIRCUIT BREAKER FOR NEW ELECTRIC DUCT HEATER EH-2.

PANEL: 1LAX (SECTION 1) LOCATION: ROOM 139 - CUST. FEEDER SOURCE: TRANSFORMER 1 FEED THROUGH LUGS		VOLTAGE: 120/208V, 3Ø, 4W ENCLOSURE: NEMA 1, SURFACE MOUNT 225A BUS, M.L.O.			
CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER		LOAD DESCRIPTION LOCATION	CKT. NO.
		POLE	AMP		
1		1	20		2
3		1	20		4
5		1	20		6
7		1	20		8
9		1	20		10
11		1	20		12
13		1	20		14
15		1	20		16
17		1	20		18
19		1	20		20
21		1	20		22
23		1	20		24
25		1	20		26
27		1	20		28
29		1	20		30
31		1	20		32
33	EF-1 (NOTE 4)	1		EF-4 (NOTE 7)	34
35	EF-2 (NOTE 5)	1		EF-5 (NOTE 8)	36
37	EF-3 (NOTE 6)	1		EF-6 (NOTE 9)	38
39	SPACE			SPACE	40
41	SPACE			SPACE	42

- NEUTRAL BUS GROUND BUS
- FEED THRU LUGS
- NOTES:
- PANELBOARD IS EXISTING.
 - PROVIDE NEW, UPDATED TYPED CIRCUIT DIRECTORY.
 - DISCONNECT EXISTING HOMERUNS FOR ALL EXISTING ROOF MOUNTED EXHAUST FANS (EF-1 THROUGH EF-21) FROM EXISTING 1P CIRCUIT BREAKERS IN PANEL. BREAKERS SHALL REMAIN IN PLACE AS SPARE CIRCUIT BREAKERS.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-1.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-2.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-3.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-4.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-5.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-6.

PANEL: 2LA LOCATION: ROOM 212A - CUST. FEEDER SOURCE: MAIN SWITCHBOARD		VOLTAGE: 277/480V, 3Ø, 4W ENCLOSURE: NEMA 1, SURFACE MOUNT 225A BUS, M.L.O.			
CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER		LOAD DESCRIPTION LOCATION	CKT. NO.
		POLE	AMP		
1		1	20		2
3		1	20		4
5		1	20		6
7		1	20		8
9		1	20		10
11		1	20		12
13		1	20		14
15		1	20		16
17		1	20		18
19					20
21		3	30		22
23					24
25					26
27		3	40		28
29					30
31	SPACE	1		SPACE	32
33	SPACE	1		SPACE	34
35	SPACE	1		SPACE	36
37					38
39	AHU-2 (NOTE 4)	3		AHU-3 (NOTE 6)	40
41					42

- NEUTRAL BUS GROUND BUS
- NOTES:
- PANELBOARD IS EXISTING.
 - PROVIDE NEW, UPDATED TYPED CIRCUIT DIRECTORY.
 - DISCONNECT EXISTING HOMERUN FOR EXISTING AIR HANDLER AHU-2 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. BREAKER SHALL REMAIN IN PLACE AS SPARE CIRCUIT BREAKER.
 - PROVIDE NEW 15A, 3P CIRCUIT BREAKER FOR NEW AIR HANDLER UNIT # 2 (AHU-2).
 - DISCONNECT EXISTING HOMERUN FOR EXISTING AIR HANDLER AHU-3 FROM EXISTING 3P CIRCUIT BREAKER IN PANEL. BREAKER SHALL REMAIN IN PLACE AS SPARE CIRCUIT BREAKER.
 - PROVIDE NEW 15A, 3P CIRCUIT BREAKER FOR NEW AIR HANDLER UNIT # 3 (AHU-3).

PANEL: 1LAX (SECTION 2) LOCATION: ROOM 139 - CUST. FEEDER SOURCE: TRANSFORMER 1		VOLTAGE: 120/208V, 3Ø, 4W ENCLOSURE: NEMA 1, SURFACE MOUNT 225A BUS, M.L.O.			
CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER		LOAD DESCRIPTION LOCATION	CKT. NO.
		POLE	AMP		
1		1	20		2
3		1	20		4
5		1	20		6
7		1	20		8
9		1	20		10
11		1	20		12
13		1	20		14
15		1	20		16
17		1	20		18
19		1	20		20
21		1	20		22
23		1	20		24
25		1	20		26
27		1	20		28
29		1	20		30
31		1	20		32
33	EF-7 (NOTE 4)	1		EF-12 (NOTE 9)	30
35	EF-8 (NOTE 5)	1		EF-13 (NOTE 10)	32
37	EF-9 (NOTE 6)	1		EF-14 (NOTE 11)	34
39	EF-10 (NOTE 7)	1		EF-19 (NOTE 12)	36
41	EF-11 (NOTE 8)	1		EF-20 (NOTE 13)	38
43	SPACE			SPACE	40
45	SPACE			SPACE	42

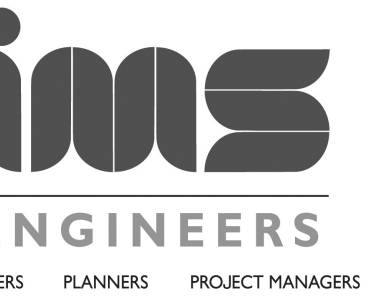
- NEUTRAL BUS GROUND BUS
- NOTES:
- PANELBOARD IS EXISTING.
 - PROVIDE NEW, UPDATED TYPED CIRCUIT DIRECTORY.
 - DISCONNECT EXISTING HOMERUNS FOR ALL EXISTING ROOF MOUNTED EXHAUST FANS (EF-1 THROUGH EF-21) FROM EXISTING 1P CIRCUIT BREAKERS IN PANEL. BREAKERS SHALL REMAIN IN PLACE AS SPARE CIRCUIT BREAKERS.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-7.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-8.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-9.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-10.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-11.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-12.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-13.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-14.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-19.
 - PROVIDE NEW 20A, 1P CIRCUIT BREAKER FOR NEW EXHAUST FAN EF-20.

EXISTING GE SWITCHBOARD
480Y/277V, 3Ø, 4-WIRE, 1200A

CT'S	MAIN SWITCH 1200A	PANEL 1LB 60A	SPACE	BOILER 30A	H/W PUMP 2 30A	
		C/W PUMP 1 100A	C/W PUMP 2 100A	SPARE 100A	XFORMER 1 100A	
		CHILLER 1 400A		CHILLER 2 400A		
		PANEL 3LAX 200A	XFORMER 2 200A	PANEL 1LAX 200A	PANEL 2LAX 200A	
		COND. PUMP 2 60A	FAN TOWER 60A	COND. PUMP 1 60A	SPARE 60A	
		HOOD FAN 2 30A	HOOD FAN 1 30A	H/W PUMP 1 30A	SPACE	

SWITCHGEAR LINE-UP - EXISTING

SCALE: NOT TO SCALE



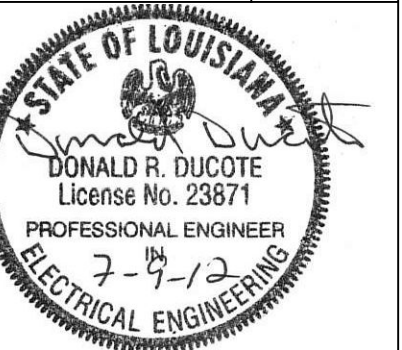
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DRAWING REVISIONS

NO.	REMARKS	DATE

SEAL:



DRAWN BY: SJC SCALE: AS NOTED
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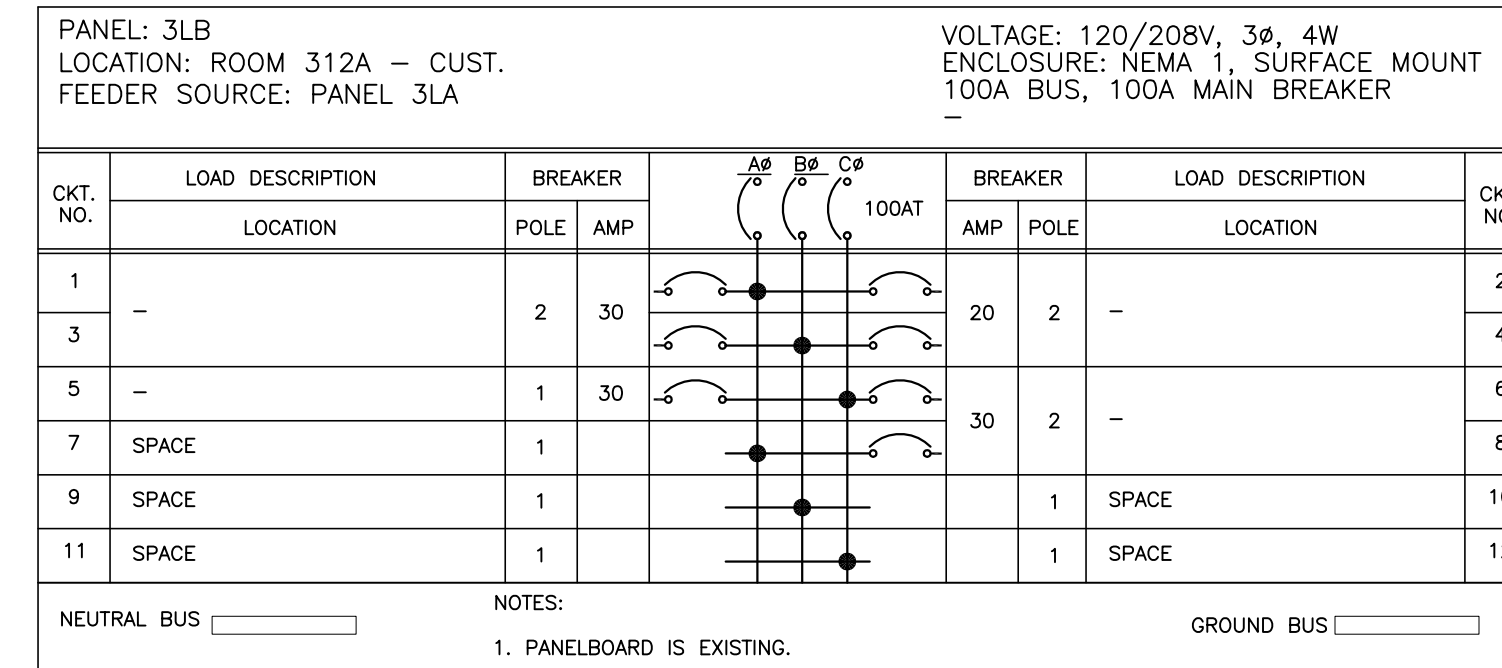
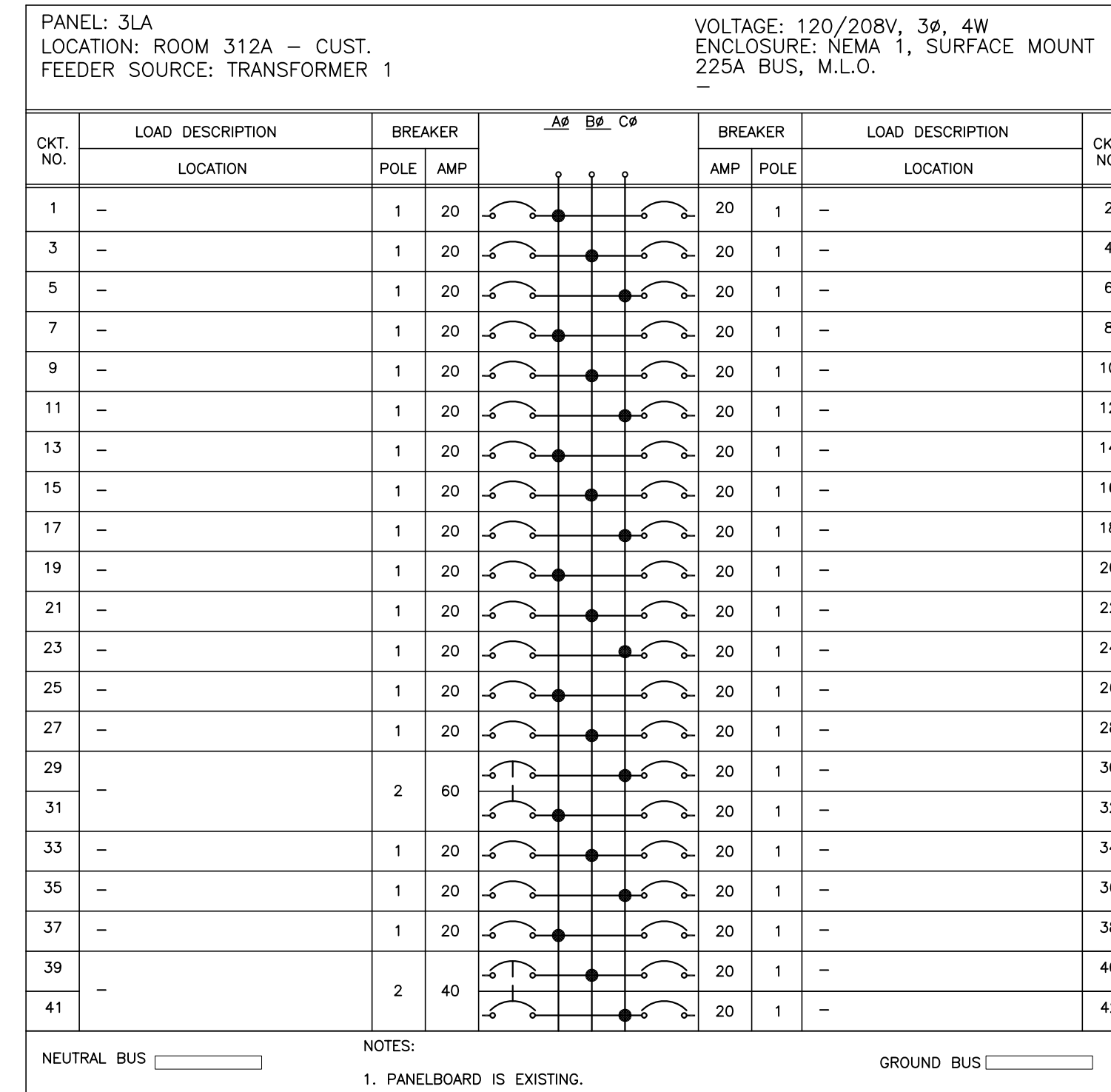
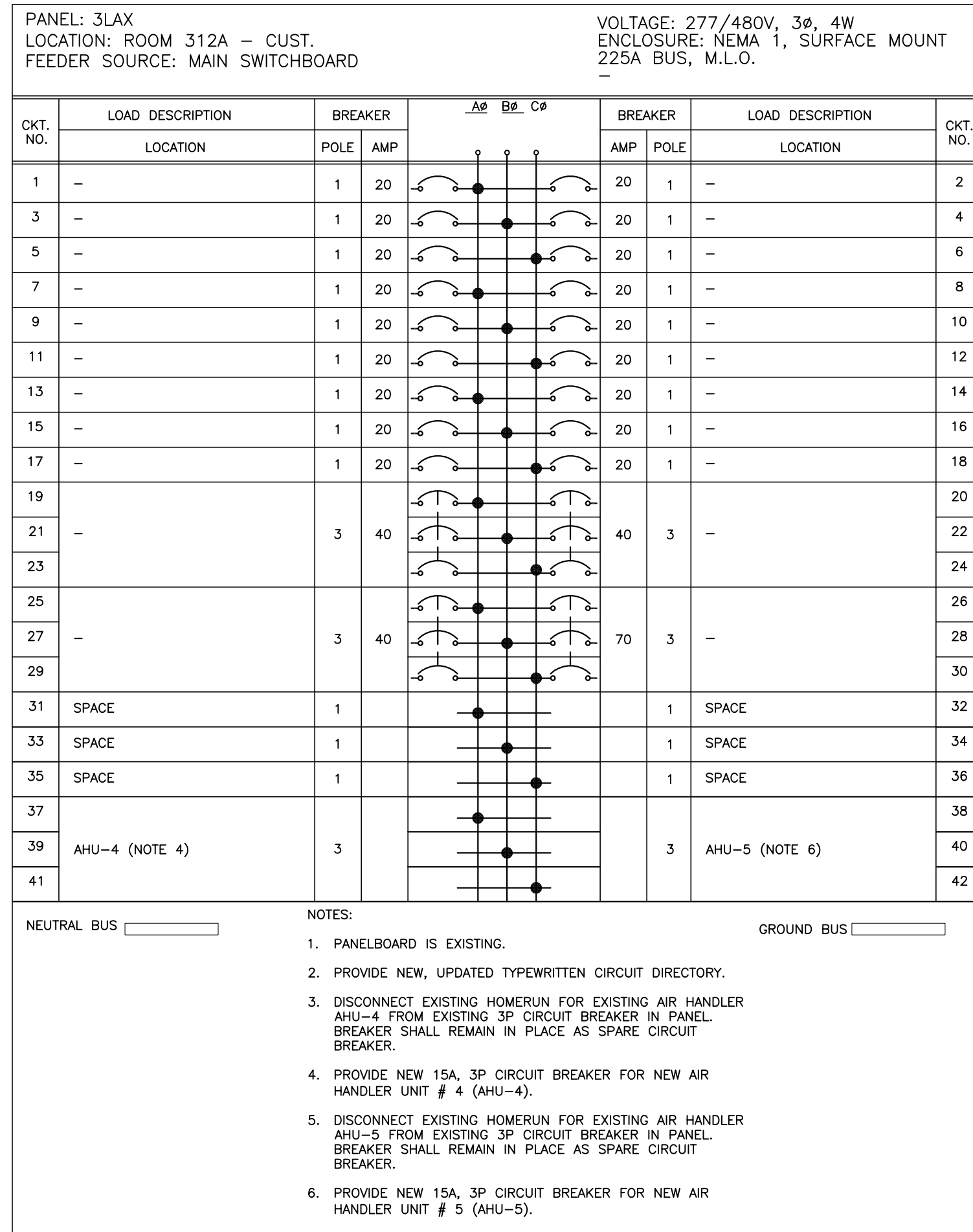
PANEL SCHEDULES AND DETAILS

SHEET NUMBER:

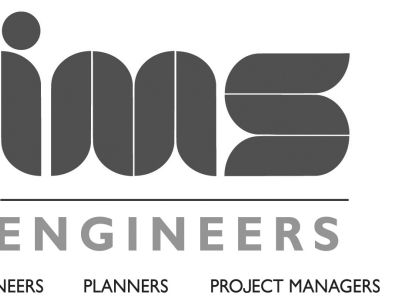
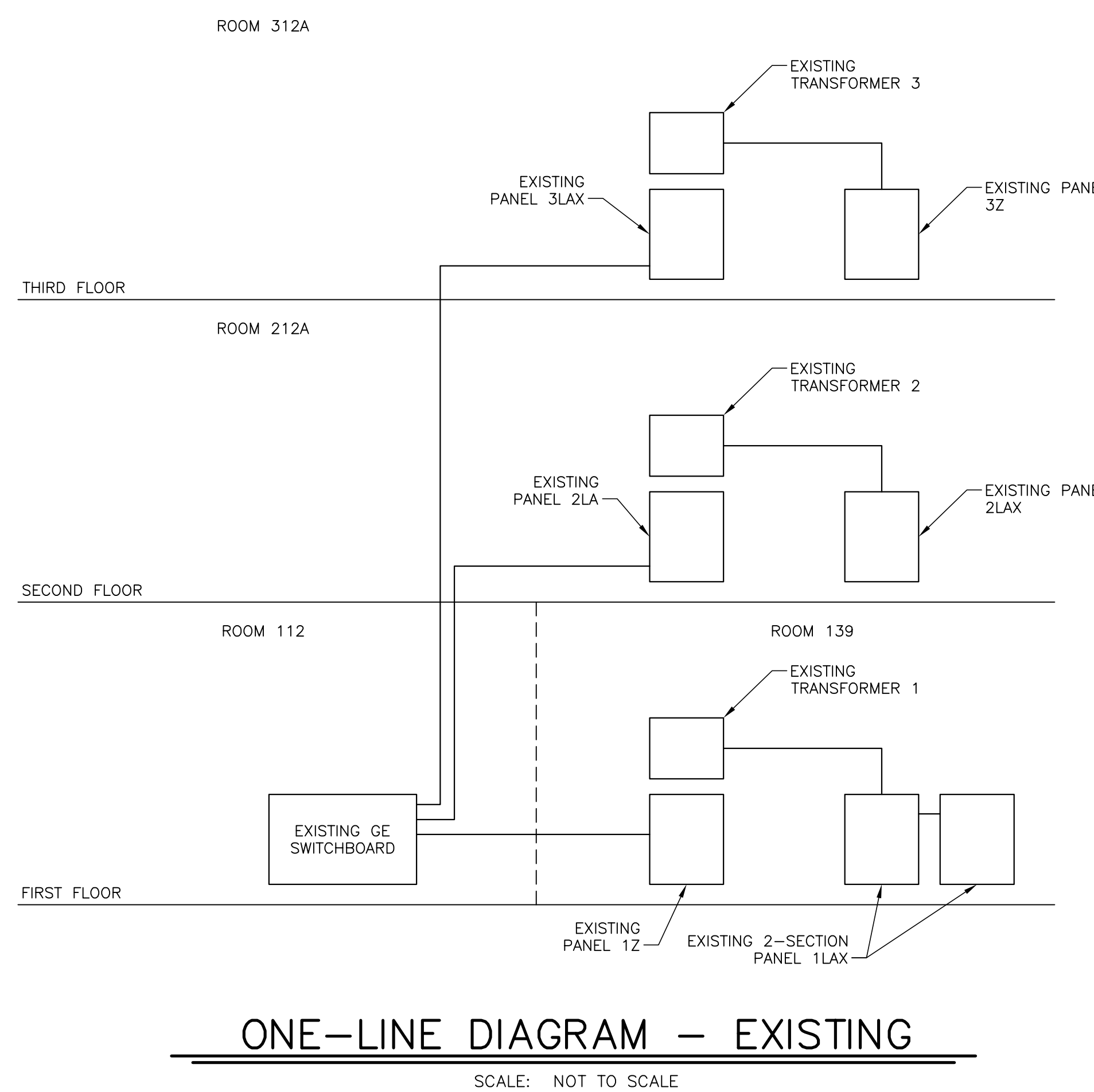
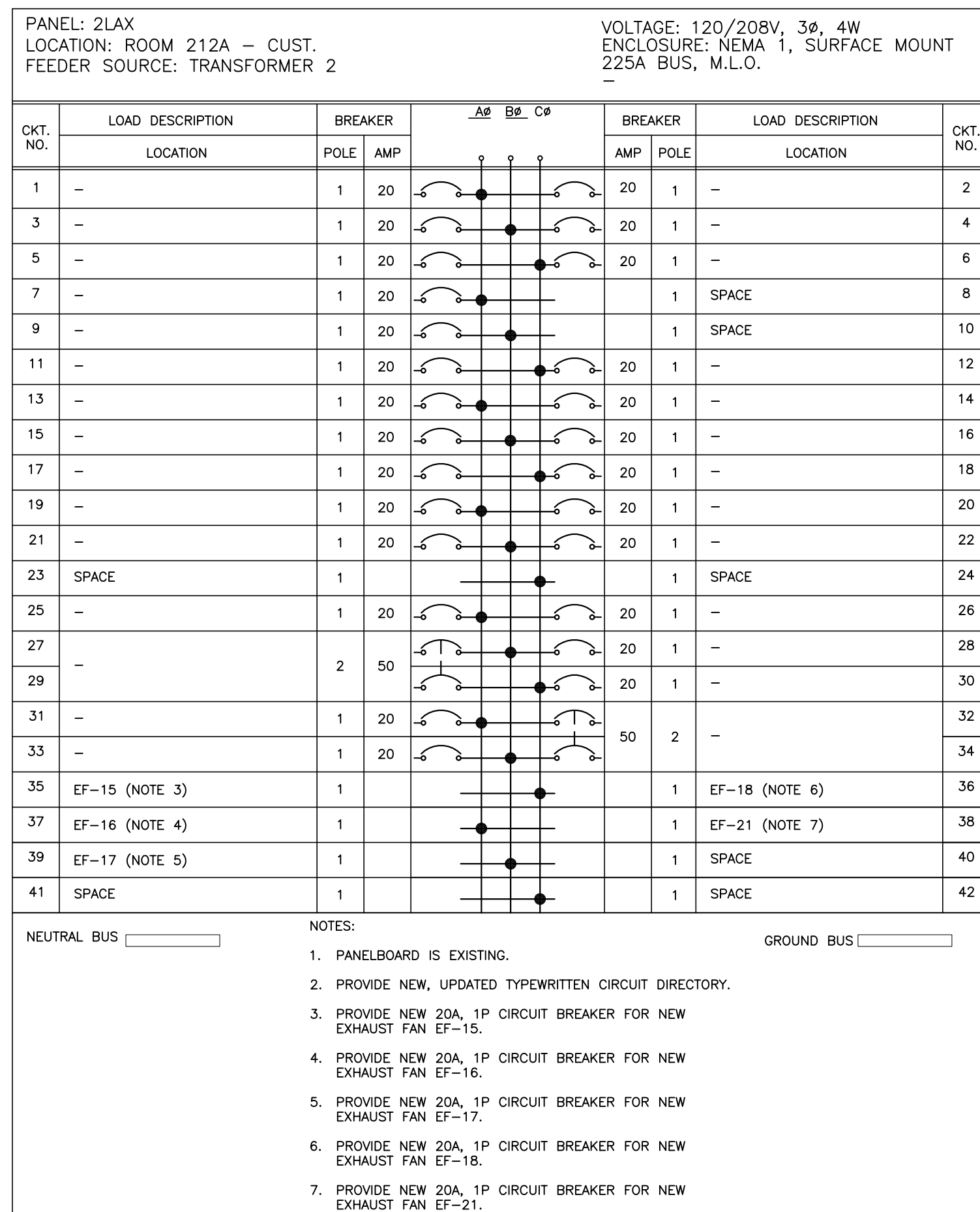
E1.5



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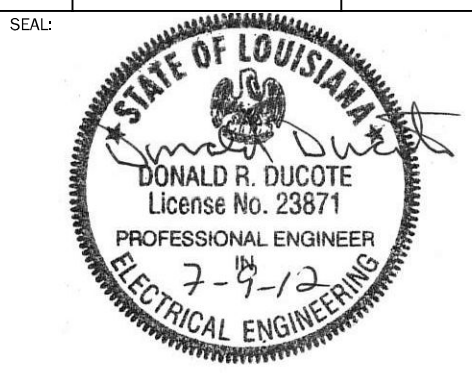
FIXTURE SCHEDULE			
TYPE	CATALOG No.	MANUFACTURER	DESCRIPTION
F1	VSL-2-17-MVOLT-GE810IS-DL	LITHONIA	SURFACE MOUNTED 2' ENCLOSED & GASKETED FLUORECENT FIXTURE WITH STEEL HOUSING, ACRYLIC LENS; TAPER RESISTANT LATCHES, 2-17WATT T8 LAMPS AND ELECTRONIC BALLAST



IMS ENGINEERS, PA
126 EAST AMITE STREET
JACKSON, MS 39201
P: 601.968.9194
F: 601.968.9192

AHU REPLACEMENT AT SYLVANIE WILLIAMS
ELEMENTARY SCHOOL
3127 MARTIN LUTHER KING JR. BOULEVARD
NEW ORLEANS, LA 70125

DRAWING REVISIONS		
NO.	REMARKS	DATE



DRAWN BY: SJC SCALE: AS NOTED
DESIGNED BY: KK DATE: JULY 9, 2012
CHECKED BY: DRD PROJECT: 2011-0876-0001
PATH NAME:
DRAWING TITLE:

PANEL SCHEDULES
AND DETAILS

SHEET NUMBER:
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