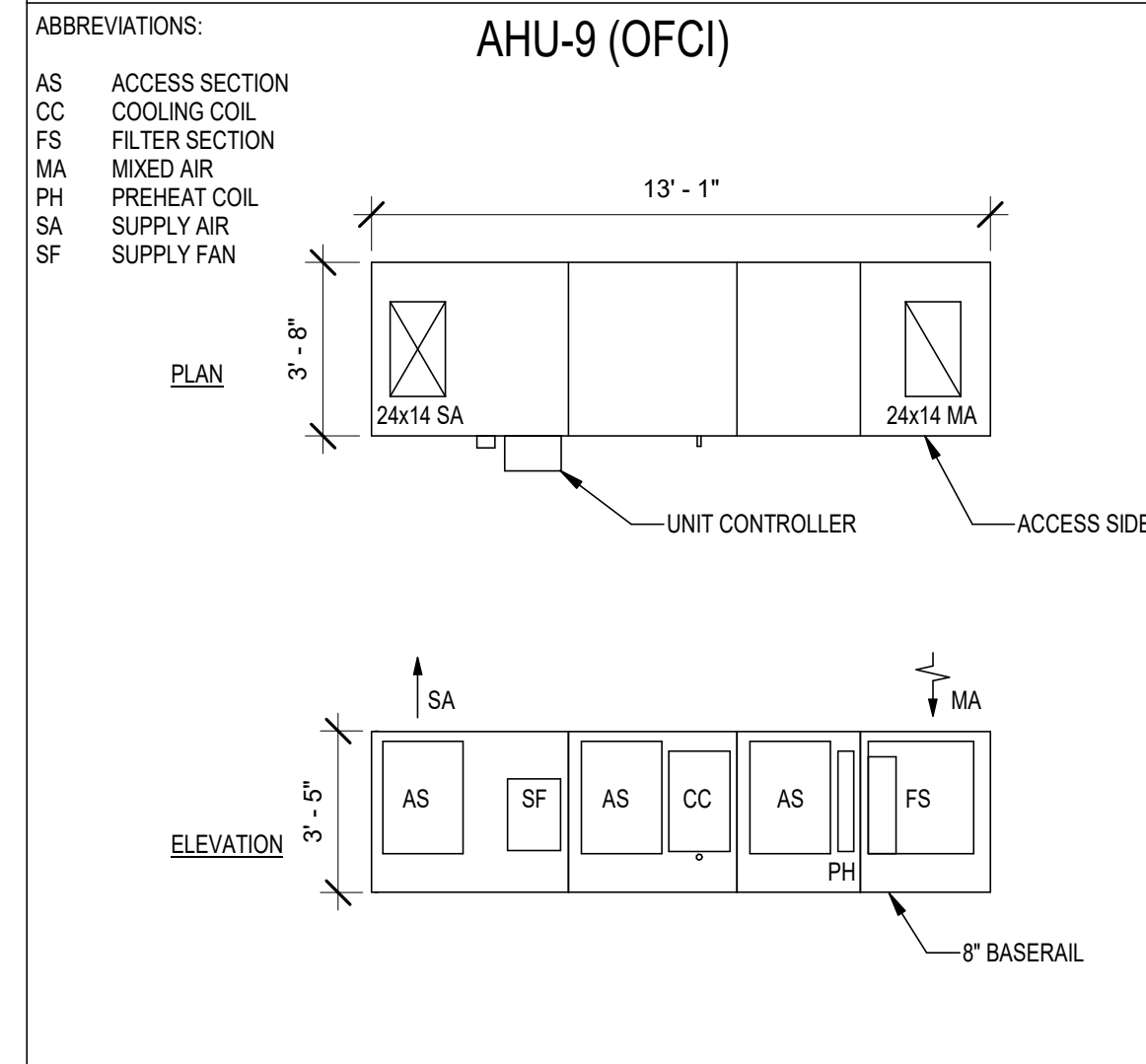


DESIGN CONDITIONS

OUTDOOR CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)			
COOLING (0.4% ANNUAL)	*Fdb - *Fwb	96.2	76.2
HEATING (99.6% ANNUAL)	*Fdb	26.5	
ENTHALPY (0.4% ANNUAL)	*Fdb - *Fwb	89.0	79.9
INDOOR CONDITIONS - SUMMER			
OFFICE AREAS (EXCEPT AS NOTED BELOW)	*Fdb - %RH	74	55
CLASSROOMS	*Fdb - %RH	74	50
TELECOMMUNICATION ROOMS	*Fdb - %RH	78	55
INDOOR CONDITIONS - WINTER			
OFFICE AREAS (EXCEPT AS NOTED BELOW)	*Fdb - %RH	70	30
CLASSROOMS	*Fdb - %RH	70	30
TELECOMMUNICATION ROOMS	*Fdb - %RH	65	30

AIR HANDLING UNIT LAYOUT



AIR HANDLING UNITS (OFCl)

DESIGNATION		AHU-9	
AIR FLOW RATES			
TOTAL SUPPLY AIR	CFM	2,240	
OUTSIDE AIR	CFM	1,700	
MINIMUM SUPPLY FAN SPEED SETTING	%	76	
MINIMUM OUTSIDE AIR FLOW SETTING	CFM	1,700	
PRE-FILTER SECTION			
FILTER ORIENTATION	FLAT		
TYPE OF FILTER	2" THICK PLEATED		
FILTER EFFICIENCY	MERV 8		
FINAL FILTER SECTION			
FILTER ORIENTATION	FLAT		
TYPE OF FILTER	4" THICK PLEATED		
FILTER EFFICIENCY	MERV 13		
PREHEAT COIL DATA - HYDRONIC			
HEATING CAPACITY	MBTUH	52.4	
AIR ENTERING HEATING COIL	*F	20	
AIR LEAVING HEATING COIL	*F	48	
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	150 - 110	
WATER FLOW	GPM	2.6	
RUNOUT PIPE SIZE	IN.	3/4	
CONTROL VALVE (TYPE)	2-WAY		
COOLING COIL DATA - HYDRONIC			
TOTAL COOLING CAPACITY	MBTUH	182.4	
SENSIBLE COOLING CAPACITY	MBTUH	91.7	
AIR ENTERING COOLING COIL	*Fdb - *Fwb	90.9 - 76.4	
AIR LEAVING COOLING COIL	*Fdb - *Fwb	53.0 - 52.5	
CHW ENTERING & LEAVING TEMPERATURE	*F - *F	45 - 61	
WATER FLOW	GPM	23	
MINIMUM FACE AREA (@ 450 FPM)	SQ. FT.	5.0	
GLYCOL CONCENTRATION	%	0	
RUNOUT PIPE SIZE	IN.	2	
CONDENSATE DRAIN SIZE	IN.	2	
CONTROL VALVE (TYPE)	3-WAY		
SUPPLY FAN SECTION			
FAN TYPE	PLENUM		
DRIVE TYPE	DIRECT		
ELECTRICALLY COMMUTATED MOTOR (ECM)	YES		
FAN EFFICIENCY GRADE	FEG 80		
FAN EFFICIENCY INDEX (FEI)	1.4		
FAN QUANTITY (INCLUDING REDUNDANCY)	#	1	
REDUNDANCY	NONE		
EXTERNAL STATIC PRESSURE	IN. WG	1.9	
MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTER)	IN. WG	4.2	
DIRTY PRE-FILTER ALLOWANCE	IN. WG	0.7	
DIRTY FINAL FILTER ALLOWANCE	IN. WG	0.7	
FAN MOTOR HORSEPOWER (PER FAN)	HP - BHP	4 - 2.5	
FAN MOTOR HORSEPOWER (UNIT TOTAL @ DESIGN)	HP - BHP	4 - 2.5	
ELECTRICAL CHARACTERISTICS & NO. OF CIRCUITS	V / PH - #	460 / 3 - 1	
MCA / MOC (PER CIRCUIT)	AMPS - AMPS	5.8 - 15	
VARIABLE FREQUENCY DRIVE	NONE		
INLET / DISCHARGE SOUND DATA			
63 HZ	dB / dB	69 / 70	
125 HZ	dB / dB	66 / 74	
250 HZ	dB / dB	73 / 85	
500 HZ	dB / dB	71 / 79	
1000 HZ	dB / dB	65 / 78	
MANUFACTURER			
TRANE			
NOTES:			
1 BRAKE HORSEPOWER INDICATED IS MAXIMUM ALLOWED.			
2 INSTALL ALL UNITS LOCATED ABOVE GROUND LEVEL FINISHED FLOOR ENTIRELY WITHIN AN AUXILIARY DRAIN PAN. PROVIDE SWITCH INTERLOCKED WITH SUPPLY FAN IN DRAIN PAN.			
3 MAXIMUM ALLOWABLE DIMENSIONS FOR EQUIPMENT SHOWN IN AIR HANDLING UNIT LAYOUTS THIS PAGE. SUBMITTAL DATA SHALL INCLUDE INFORMATION DEMONSTRATING COMPLIANCE WITH MAXIMUM ALLOWABLE WIDTH INCLUDING COIL PULL.			
4 PROVIDE FANS WITH A MINIMUM DIAMETER OF 15 INCHES AND FAN EFFICIENCY GRADE AS INDICATED ABOVE.			
5 SUPPLY AIR OPENING SHALL BE OF SUFFICIENT SIZE TO MINIMIZE SYSTEM EFFECT FOR DISCHARGE INTO SUPPLY PLENUM.			

VENTILATION RATE

TYPE OF SPACE	EXHAUST AIR		OUTSIDE AIR	
	CFM / FT ²	CFM / PERSON	CFM / FT ²	CFM / FT ²
COMMON CORRIDORS		0	0.06	
CONFERENCE / MEETING		5	0.06	
CORRIDORS		0	0.06	
LECTURE CLASSROOM		7.5	0.06	
LIBRARIES		5	0.12	
OFFICE SPACE		5	0.06	
RECEPTION AREAS		5	0.06	
STORAGE ROOMS (UNOCCUPIED)		0	0.00	
TOILET (PUBLIC)	50/70	0	0.00	

NOTES:
 2 VENTILATION RATES CALCULATED PER REQUIREMENTS OF FBC, MECHANICAL 2023.
 3 EXHAUST IS PER WATER CLOSET AND/OR URINAL. HIGHER RATE USED.

PUMPS

DESIGNATION		TP-1, 2	
APPLICATION			
SERVICE	CHW		
DISTRIBUTION TYPE	TERTIARY		
LOCATION TYPE	INTERIOR		
DESIGN CRITERIA			
TOTAL SYSTEM DESIGN FLOW	GPM	500	
PUMP SEQUENCING	DUTY / STANDBY		
PUMP QUANTITY (INCLUDING REDUNDANCY)	#	2	
PERFORMANCE			
PUMP TYPE	CLOSE-COUPLED END SUCTION		
PERCENT OF DESIGN FLOW	%	100	
CAPACITY	GPM	500	
TOTAL DYNAMIC HEAD	FT.	40	
EFFICIENCY	%	85	
SHUT-OFF HEAD	FT.	46	
IMPELLER DIAMETER	IN.	7.05	
PUMP SEAL	MECHANICAL		
MOTOR SPEED	RPM	1,760	
MOTOR HORSEPOWER	HP - BHP	7 1/2 - 6.6	
MOTOR ENCLOSURE	ODP		
MOTOR WINDING	FULL		
ELECTRICAL CHARACTERISTICS	V / PH	460 / 3	
VARIABLE FREQUENCY DRIVE	YES		
MANUFACTURER			
TACO			
MODEL NUMBER			
C44007D			
DETAIL REFERENCE			
JMS.2			

VARIABLE FREQUENCY DRIVES

EQUIPMENT DESIGNATION	ELECTRICAL CHARACTERISTICS (V / PH)	TOTAL HORSEPOWER (HP)	PULSE WIDTH MODULATED INVERTER	HARMONIC MITIGATION	BYPASS DEVICE	MANUFACTURER	MODEL NUMBER
VFD-TP-1	460 / 3	NOTE 1	6-PULSE	3% LINE REACTOR	STARTER	ABB	ACH580
VFD-TP-2	460 / 3	NOTE 1	6-PULSE	3% LINE REACTOR	STARTER	ABB	ACH580

NOTES:
 1 REFER TO EQUIPMENT SCHEDULE FOR HP REQUIREMENTS. COORDINATE FINAL HP WITH SUBMITTAL ENGINEER APPROVED EQUIPMENT.

BUILDING AIR BALANCE - EQUIPMENT SUMMARY

OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
AHU-1	6,005	EF-1	13,510
AHU-2	815	EF-2	445
AHU-3	1,520	EF-3 (NEW)	1,700
AHU-4	1,875		
AHU-5	525		
AHU-6	545		
AHU-7	1,290		
AHU-8	1,380		
AHU-9 (NEW)	1,700		
AHU-1	2,000	EF-1	4,000
AHU-2	2,700		
TOTAL	20,355	TOTAL	19,655
BUILDING PRESSURIZATION		(+)	700

DUCT SILENCER SCHEDULE

DESIGNATION		DS-1		DS-2	
TYPE		DISSIPATIVE	DISSIPATIVE		
SHAPE		RECTANGULAR	RECTANGULAR		
CONFIGURATION		STRAIGHT	STRAIGHT		
FLOW DIRECTION (NOTE 1)		REVERSE	REVERSE		
FACE DIMENSION (WIDTH x HEIGHT / or DIAMETER)	IN x IN.	42 x 14	54 x 14		
LENGTH	IN.	60	60		
MAXIMUM AIRFLOW	CFM	3,700	5,485		
MAXIMUM PRESSURE DROP (INCLUDING SYSTEM EFFECTS)	INCH W.G.	0.2	0.2		
OCTAVE BAND DYNAMIC INSERTION LOSS / GENERATED NOISE (NOTE 2)					
63 Hz	dB / dB	5 / 32	2 / 32		
125 Hz	dB / dB	9 / 20	4 / 20		
250 Hz	dB / dB	18 / 15	9 / 15		
500 Hz	dB / dB	34 / 29	21 / 15		
1000 Hz	dB / dB	37 / 35	28 / 25		
2000 Hz	dB / dB	27 / 31	20 / 30		
4000 Hz	dB / dB	18 / 28	12 / 27		
8000 Hz	dB / dB	14 / 18	10 / 23		
MANUFACTURER					
PRICE					
MODEL NUMBER					
RM60					
RH60					
NOTES:					
1 FORWARD FLOW INDICATES WHERE NOISE AND AIRFLOW MOVE IN SAME DIRECTIONS. REVERSE FLOW INDICATES WHERE NOISE AND AIRFLOW MOVE IN OPPOSITE DIRECTIONS.					
2 DYNAMIC INSERTION LOSS DETERMINED IN ACCORDANCE WITH ASTM E477-99.					
3 DYNAMIC INSERTION LOSS DATA SHOWN FOR EACH SILENCER IS BASED ON ACOUSTICAL DATA FROM BASIS OF DESIGN AIR HANDLING UNITS. IF ACOUSTICAL DATA FOR APPROVED ALTERNATE IS DIFFERENT FROM BASIS OF DESIGN, CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING DUCT SILENCERS THAT DO NOT EXCEED GENERATED NOISE REQUIREMENTS FOR EACH OCTAVE BAND. AS INDICATED IN THE SCHEDULE ABOVE. PROVIDE ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVEL, INCLUDING AIRBORNE AND BREAKOUT NOISE, IN THE OCCUPIED SPACES, MEET NC 30.					

TEST AND BALANCE AIR HANDLING UNITS (EXISTING UNITS)

DESIGNATION		AHU-1	
DESIGN AIR QUANTITIES			
SUPPLY AIR FLOW	CFM	13,400	
OUTSIDE AIR FLOW	CFM	6,005	
DESIGN WATER QUANTITIES			
HEATING HOT WATER FLOW	GPM	20	
CHILLED WATER FLOW	GPM	92	
DESIGN COOLING & HEATING CAPACITIES			
PREHEAT CAPACITY	MBH	545	
TOTAL COOLING CAPACITY	MBH	777	
NOTES:			
1 EXISTING AIR HANDLING UNIT SCHEDULE INFORMATION, PROVIDED FOR REFERENCE ONLY.			
2 PROVIDE TESTING, ADJUSTING, AND BALANCING (TAB) WORK IN ACCORDANCE WITH SPECIFICATIONS.			
3 BEFORE PERFORMING TESTING AND BALANCING OF EXISTING SYSTEMS, INSPECT EXISTING EQUIPMENT THAT IS TO REMAIN AND BE REUSED TO VERIFY THAT EXISTING EQUIPMENT HAS BEEN CLEANED AND REFURBISHED. VERIFY THE FOLLOWING: A. PROVIDE NEW FILTERS B. COILS ARE CLEAN AND FINS COMBED. C. DRAIN PANS ARE CLEAN. D. FANS ARE CLEAN. E. BEARINGS AND OTHER PARTS ARE PROPERLY LUBRICATED.			
4 EXISTING CONTROLS AND SEQUENCE TO REMAIN.			



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Makerspace Improvements
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JOB NO.: 24-103

DESIGNED: FPH

DRAWN: FPH

CHECKED: MPP

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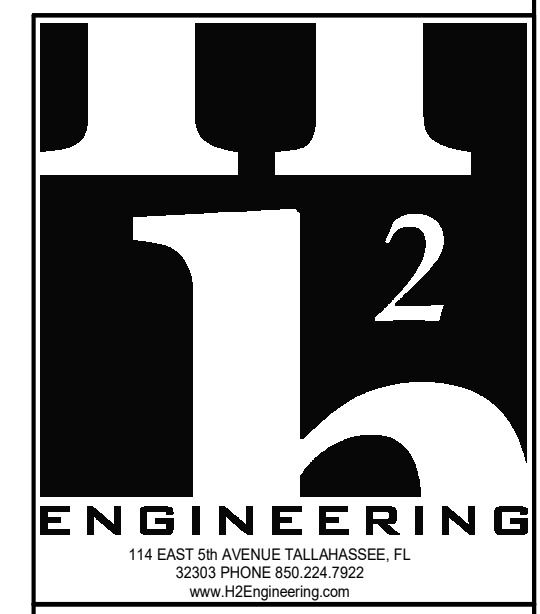
Schedules

SHEET NO.:

M0.2

DATE:

February 7, 2025



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H2E PROJECT No. 24-073

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Florida Registry #2485
 Mark P. Poindexter, P.E. #90615

FANS

DESIGNATION		EF-3
SERVICE		CLASS 1 OR 2 EXHAUST
MOUNTING METHOD		SUSPENDED
FAN TYPE		TUBE AXIAL
AIR FLOW	CFM	1,700
STATIC PRESSURE	IN.	2.6
FAN SPEED	RPM	3,500
FAN DRIVE		DIRECT
MOTOR SPEED	RPM	3,500
MOTOR POWER	HP or W	2 HP
MOTOR BRAKE HORSEPOWER	BHP	1.55
ELECTRONICALLY COMMUTATED MOTOR		NO
ELECTRICAL CHARACTERISTICS	V / PH	460 / 3
WEIGHT	LBS.	122
NOISE LEVEL (RADIATED)	SONES or LwA	94 LwA
STANDARD NOTES		1, 4, 10, 16, 17, 18
MANUFACTURER		GREENHECK
MODEL NUMBER		AX-41-190-0610-M20
DETAIL REFERENCE		GMS.2
NOTES: (SEE SEQUENCES OF OPERATION ON IC SHEETS)		
1	PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED.	
4	PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.	
10	PROVIDE SPRING ISOLATORS.	
16	PROVIDE INLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).	
17	PROVIDE OUTLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).	
18	PROVIDE WIRE GUARD (WHERE NOT CONNECTED TO DUCTWORK).	

FUME EXTRACTOR ARMS

DESIGNATION		EA-1, 2, 3, 4, 5, 6
AIR FLOW	CFM	40
COMBINED ARM LENGTH	IN.	48
MAXIMUM RADIUS	IN.	60
DUCT DIAMETER	IN.	2
MOUNT POSITION		WALL
COLOR		BLACK
MANUFACTURER		MONOXIVENT
MODEL NUMBER		MET-1500-50EX
HOOD		
HOOD COLOR		BLACK
HOOD INLET DIAMETER	IN.	2
HOOD OUTLET SIZE	IN.	20
MANUFACTURER		MONOXIVENT
MODEL NUMBER		MES-300-50
DETAIL REFERENCE		HMS.2

GRAVITY VENTILATOR SCHEDULE

DESIGNATION		GV-1
SERVICE		RELIEF
AIRFLOW	CFM	1,700
THROAT SIZE	IN. x IN.	20 x 20
HOOD DIAMETER	IN. x IN.	30 x 36
CURB CAP	IN. x IN.	26 x 26
WEIGHT	LBS.	58
MANUFACTURER		GREENHECK
MODEL NUMBER		FGR-20x20
DETAIL REFERENCE		DMS.3
NOTES:		
1	PROVIDE PREFABRICATED ROOF CURB WITH WELDED CAP CORNERS AND DAMPER TRAY.	
2	PROVIDE ALUMINUM BIRD SCREEN.	

SUPPLY AIR TERMINALS - NO HEAT

DESIGNATION		V1-4	V1-5	V1-6	V1-7
AIR VALVE					
NOMINAL DIAMETER	IN.	10	10	10	10
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.4	0.4	0.4	0.4
AIR FLOW RATES					
MAXIMUM COOLING	CFM	855	1,020	1,360	1,220
MINIMUM COOLING	CFM	260	310	410	370
UNOCCUPIED MINIMUM	CFM	240	240	240	240
SOUND CRITERIA - (NOTE 1)					
INTEGRAL SILENCER		NO	NO	NO	NO
MAX DISCHARGE SOUND RATING (PRIMARY AIR)	NC	30	30	30	30
MAX RADIATED SOUND RATING (PRIMARY AIR)	NC	30	30	30	30

SUPPLY AIR TERMINALS - FAN POWERED

DESIGNATION		F1-1	F1-2	F1-6	F1-16	FTU-1.1	FTU-1.2	FTU-1.3	FTU-1.4	FTU-1.5	FTU-1.6	FTU-1.7
AIR VALVE												
NOMINAL DIAMETER	IN.	8	12	8	6	12	12	12	12	12	6	6
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
AIR FLOW RATES												
MAXIMUM COOLING	CFM	525	1,400	700	300	1,200	1,200	1,200	1,200	1,450	150	380
MINIMUM COOLING	CFM	150	400	150	80	400	400	400	400	400	80	80
HEATING	CFM	265	700	350	150	1,200	1,200	1,200	1,200	1,450	150	380
UNOCCUPIED MINIMUM	CFM	150	400	150	80	400	400	400	400	400	80	80
HEATING COIL DATA - HYDRONIC												
HEATING COIL LOCATION		PLENUM INLET	PLENUM INLET	PLENUM INLET	PLENUM INLET	UNIT DISCHARGE	UNIT DISCHARGE	UNIT DISCHARGE	UNIT DISCHARGE	UNIT DISCHARGE	UNIT DISCHARGE	UNIT DISCHARGE
HEATING CAPACITY	MBTUH	8.9	23.5	10.9	5.0	15.8	15.8	15.8	15.8	25.7	3.3	6.3
PRIMARY AIR TEMPERATURE (FROM AHU)	*F	53	53	53	53	53	53	53	53	53	53	53
SECONDARY AIR TEMPERATURE (FROM PLENUM)	*F	68	68	68	68	68	68	68	68	68	68	68
HEATING COIL ENTERING AIR TEMPERATURE	*F	68	68	68	68	64	64	64	64	65	63	65
HEATING COIL LEAVING AIR TEMPERATURE	*F	138	139	118	132	75	75	75	75	80	80	80
UNIT LEAVING AIR TEMPERATURE	*F	90	90	90	90	75	75	75	75	80	80	80
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110	150 - 110
WATER FLOW	GPM	0.5	1.2	0.5	0.5	0.8	0.8	0.8	0.8	1.3	0.5	0.5
RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1	1	1	1
CONTROL VALVE (TYPE)		3-WAY	2-WAY	3-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	3-WAY	2-WAY
FAN DATA												
FILTERS		1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7	1" THICK PLEATED MERV 7
FAN POSITION		PARALLEL	PARALLEL	PARALLEL	PARALLEL	SERIES	SERIES	SERIES	SERIES	SERIES	SERIES	SERIES
MOTOR TYPE		ECM	ECM	ECM	ECM	ECM	ECM	ECM	ECM	ECM	ECM	ECM
AIRFLOW	CFM	115	300	200	70	1,200	1,200	1,200	1,200	1,450	150	380
EXTERNAL STATIC PRESSURE	IN. WG	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTER)	IN. WG	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
FILTER	IN. WG	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
FAN MOTOR HORSEPOWER	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/3	1/3
ELECTRICAL CHARACTERISTICS	V / PH	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1
MCA / MOCP	AMPS - AMPS	5.2 - 15	5.2 - 15	5.2 - 15	5.2 - 15	4.5 - 15	4.5 - 15	4.5 - 15	4.5 - 15	4.5 - 15	2.8 - 15	3.3 - 15
SOUND CRITERIA - (NOTE 1)												
INTEGRAL SILENCER		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
MAX RADIATED SOUND RATING (PRIMARY AIR)	NC	28	28	28	27	28	28	28	28	28	27	27
MAX DISCHARGE SOUND RATING (PRIMARY AIR)	NC	26	27	26	20	27	27	27	27	27	20	20
MANUFACTURER		ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC	ENVIRO-TEC
MODEL NUMBER		VFR	VFR	VFR	VFR	CRB	CRB	CRB	CRB	CRB	CRB	CRB
DETAIL REFERENCE		CM5.1	CM5.1	CM5.1	CM5.1	AM5.1	AM5.1	AM5.1	AM5.1	AM5.1	AM5.1	AM5.1
NOTES:												
1	BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT.											
2	PROVIDE SINGLE POINT POWER CONNECTION.											
3	PROVIDE FULL UNIT TOGGLE DISCONNECT.											

SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT

DESIGNATION		SAT-9.1	SAT-9.2	SAT-9.3
AREA SERVED		3D PRINTING	SEMICONDUCTOR	ENG. TECH.
AIR VALVE				
NOMINAL DIAMETER	IN.	8	10	8
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.40	0.25
AIR FLOW RATES				
MAXIMUM COOLING	CFM	600	840	800
MINIMUM COOLING	CFM	600	300	800
MAXIMUM HEATING	CFM	600	400	800
MINIMUM HEATING	CFM	600	300	800
HEATING COIL DATA - HYDRONIC				
HEATING CAPACITY	MBTUH	21.1	14.0	28.1
AIR ENTERING HEATING COIL	*F	53	53	53
AIR LEAVING HEATING COIL	*F	84.9	84.9	84.9
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	150 - 110	150 - 110	150 - 110
WATER FLOW	GPM	1.1	0.7	1.4
RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4
MINIMUM # OF ROWS	#	1	1	1
CONTROL VALVE (TYPE)		2-WAY	3-WAY	2-WAY
SOUND CRITERIA - (NOTE 1)				
INTEGRAL SILENCER		NO	NO	NO
MAX DISCHARGE SOUND RATING	NC	30	30	30
MAX RADIATED SOUND RATING	NC	25	30	25
NOTES:				
1	BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT.			

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H2E PROJECT No. 24-073

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Tallahassee, FL 32304

JOB NO.: **24-103**
DESIGNED: **FPH**
DRAWN: **FPH**
CHECKED: **MPP**

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REVISIONS:

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Schedules

SHEET NO.:
M0.3

DATE:
February 7, 2025

GENERAL NOTES

1. PROVIDE ALL EXPOSED DUCTWORK SPIRAL WOUND WITH PAINTABLE METAL FINISH. EXPOSED EXHAUST DUCT IN FINISHED SPACE SHALL NOT BE INSULATED.
2. BALANCE ALL DIFFUSERS / GRILLES TO VALUES INDICATED.

RENOVATION KEYNOTES

1. 10x12 RA UP TO LEVEL 2. SEE SHEET M1.2 FOR CONTINUATION.
2. 16x16 EA UP TO LEVEL 2. SEE SHEET M1.2 FOR CONTINUATION.
3. 18x18 SA UP TO LEVEL 2. SEE SHEET M1.2 FOR CONTINUATION.
4. TURN TRANSFER DUCT UP. INSTALL AS LOW AS POSSIBLE TO ALLOW ADEQUATE ROOM BETWEEN DUCT OPENING AND FIRE RATED GYPSUM LID.
5. SUPPLY AIR REGISTER. PRICE MODEL SDGE OR APPROVED EQUAL PER SPECIFICATION. LOCK BLADES IN 0 DEGREE DEFLECTION. ARCHITECT TO APPROVE FINISH.
6. PROVIDE PRICE MODEL JET SLOT (JS) LINEAR SLOT DIFFUSER. PROVIDE BLANK OFF FOR ENTIRE LENGTH. MOUNT DIFFUSER FLUSH WITH PERFORATED METAL CEILING AND SUPPORT APPROPRIATELY. COORDINATE WITH ARCHITECTURAL PLAN FOR MOUNTING SPECIFICS.
7. RESERVED
8. PROVIDE PRICE MODEL JET SLOT (JS) LINEAR SLOT DIFFUSER. PROVIDE CABLE OPERATOR FOR BALANCING. MOUNT DIFFUSER FLUSH WITH PERFORATED METAL CEILING AND SUPPORT APPROPRIATELY. COORDINATE WITH ARCHITECTURAL PLAN FOR MOUNTING SPECIFICS.
9. PROVIDE PRICE MODEL JET SLOT (JS) LINEAR SLOT DIFFUSER. PROVIDE CABLE OPERATOR FOR BALANCING. MOUNT DIFFUSER FLUSH WITH PERFORATED METAL CEILING AND SUPPORT APPROPRIATELY. COORDINATE WITH ARCHITECTURAL PLAN FOR MOUNTING SPECIFICS.



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www.bkjarchitecture.com
FL Architecture Corporation AK20002280

SEAL:

PROJECT TITLE:

**Makerspace Improvements
TSC Library - 1st Floor**
444 Appleyard Drive,
Tallahassee, FL 32304

JOB NO.: 24-103

DESIGNED: FPH

DRAWN: FPH

CHECKED: MPP

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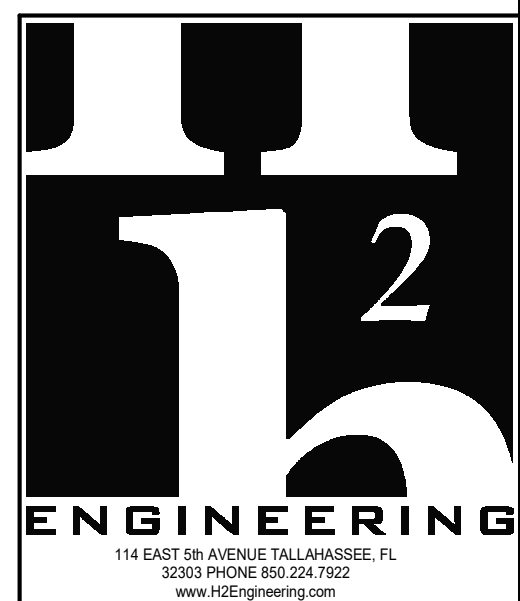
Level 1 Floor Plan

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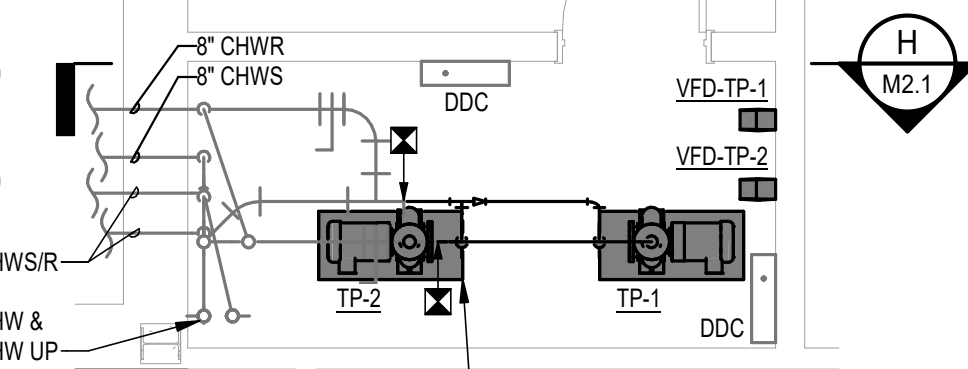
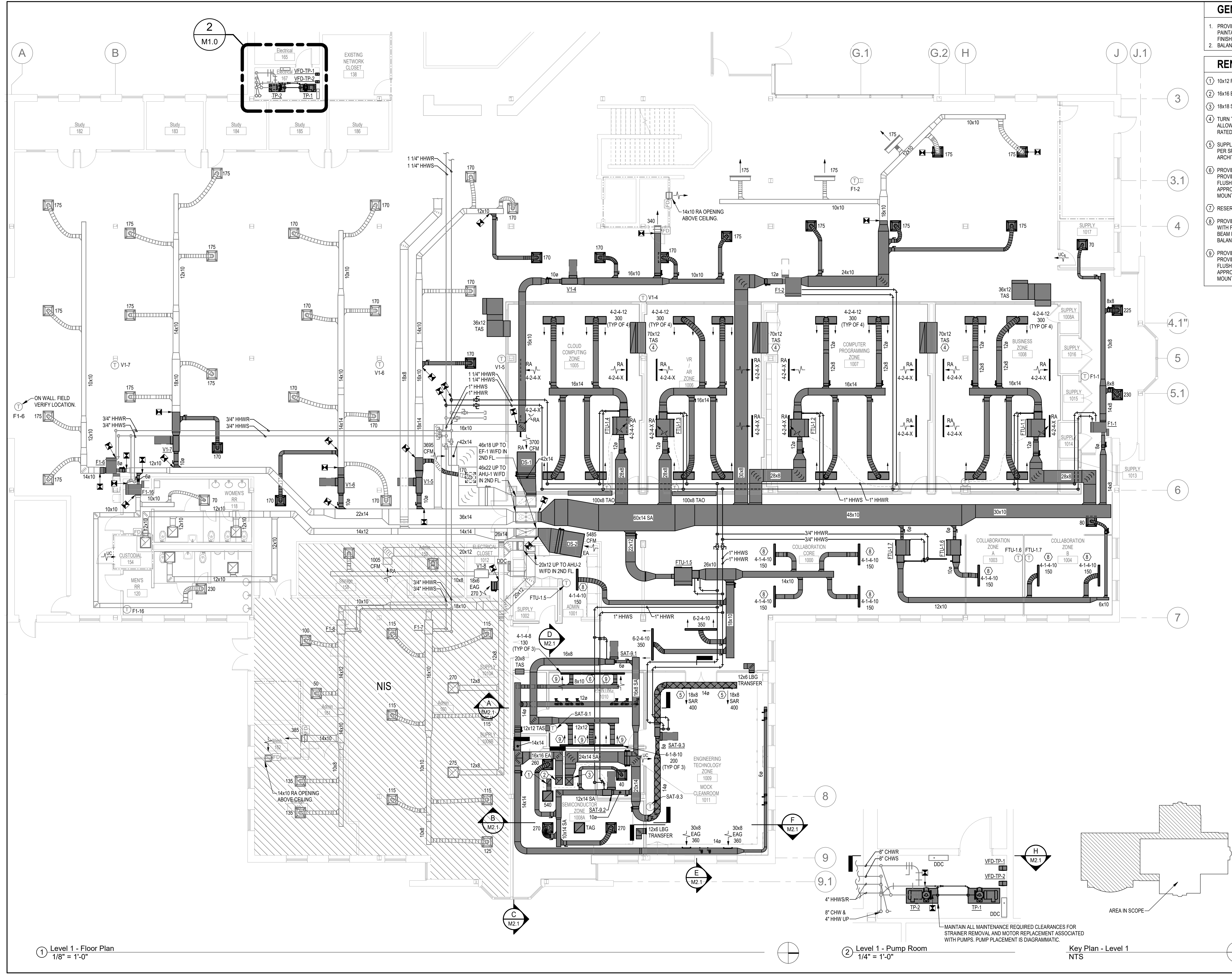
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DATE:

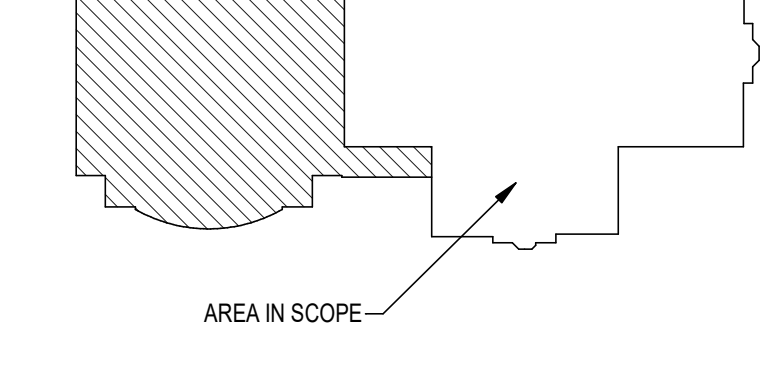
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② Level 1 - Pump Room
1/4" = 1'-0"



Key Plan - Level 1
NTS

① Level 1 - Floor Plan
1/8" = 1'-0"

Autodesk Docs://24-073 TSC Library Maker Space/24-073 MEP_Central_TSC Library Maker Space_R23.rvt 07-02-2025 13:45:38

SEAL:

PROJECT TITLE:
**Makerspace Improvements
 TSC Library - 1st Floor**
 444 Appleyard Drive,
 Tallahassee, FL 32304

JOB NO.: 24.103
 DESIGNED: FPH
 DRAWN: FPH
 CHECKED: MPP

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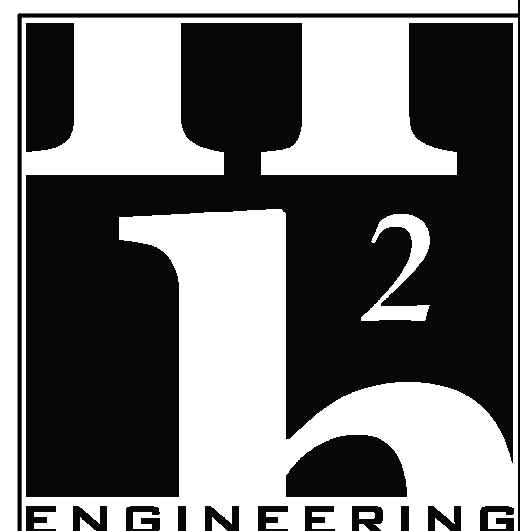
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 Level 2 Floor Plan

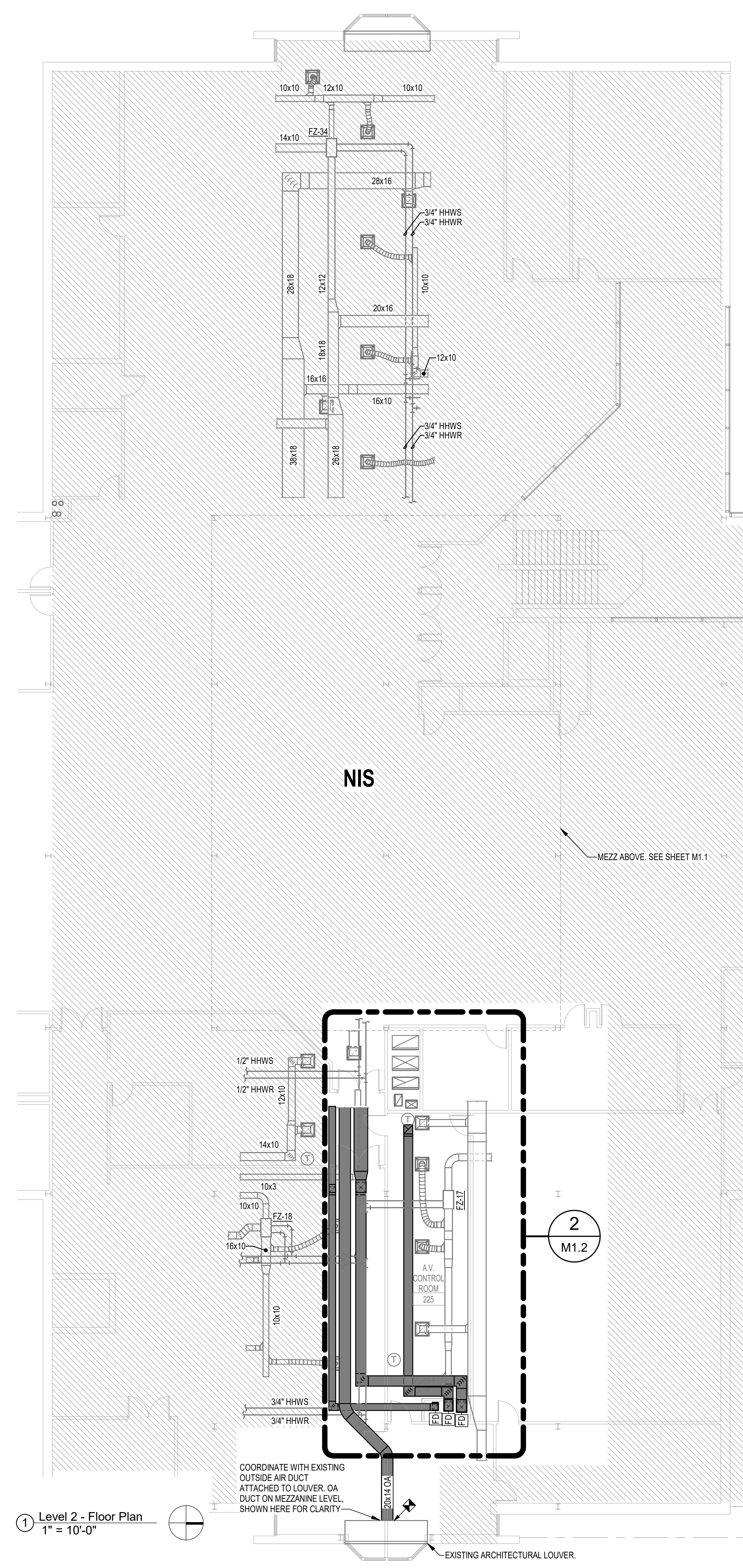
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M1.2

DATE:
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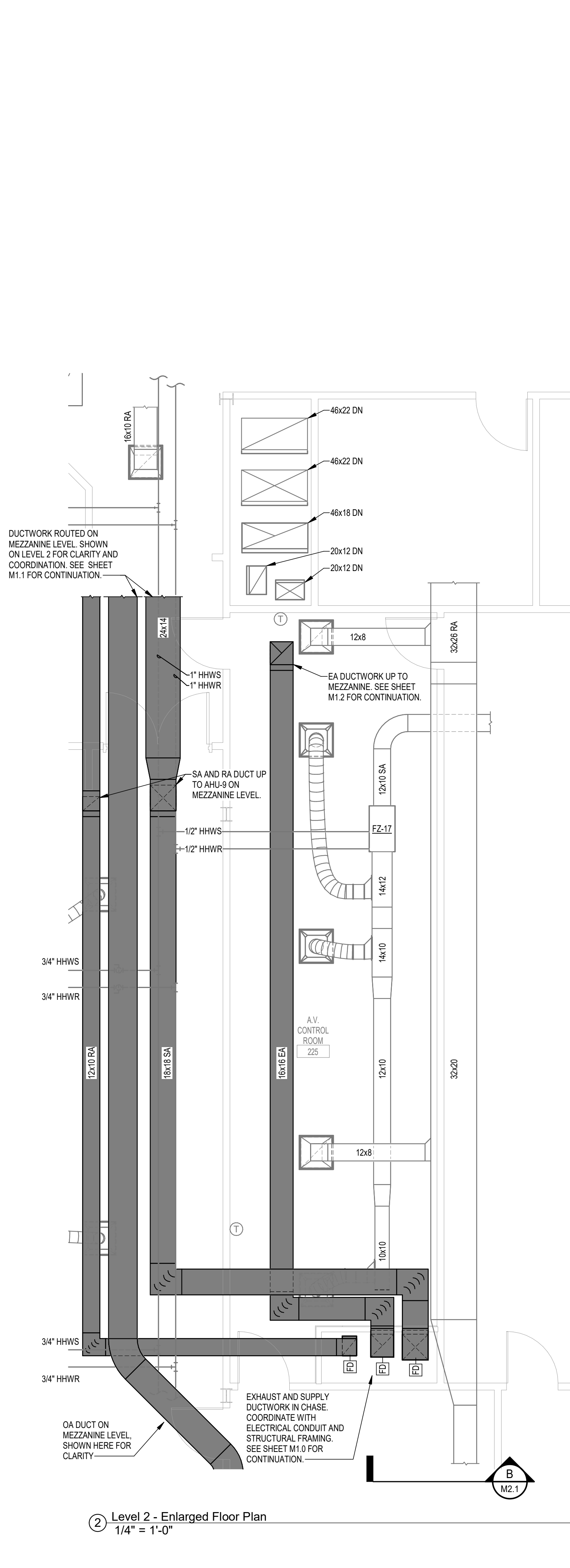


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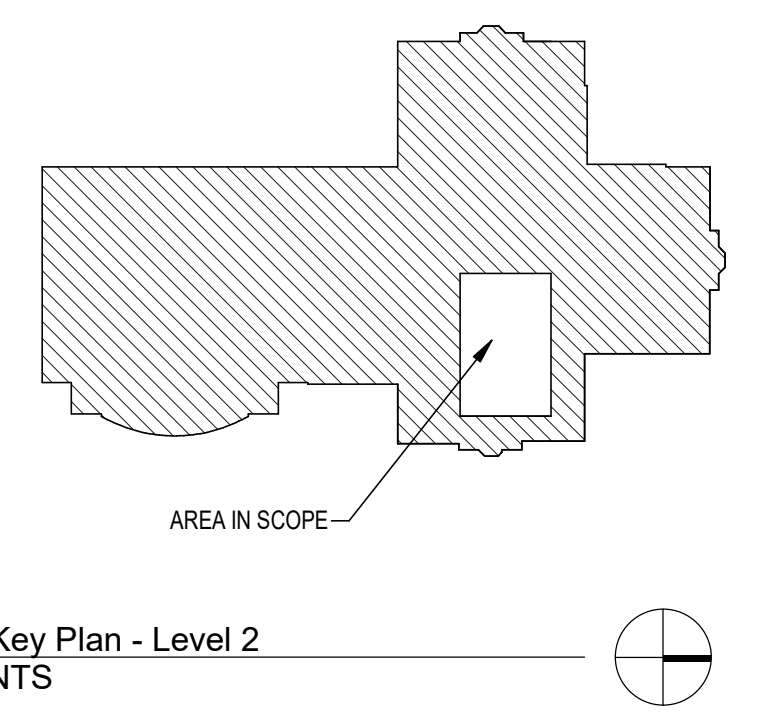
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① Level 2 - Floor Plan
1" = 10'-0"



② Level 2 - Enlarged Floor Plan
1/4" = 1'-0"



Key Plan - Level 2
NTS

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SEAL:

PROJECT TITLE:
**Makerspace Improvements
TSC Library - 1st Floor**
444 Appleyard Drive,
Tallahassee, FL 32304

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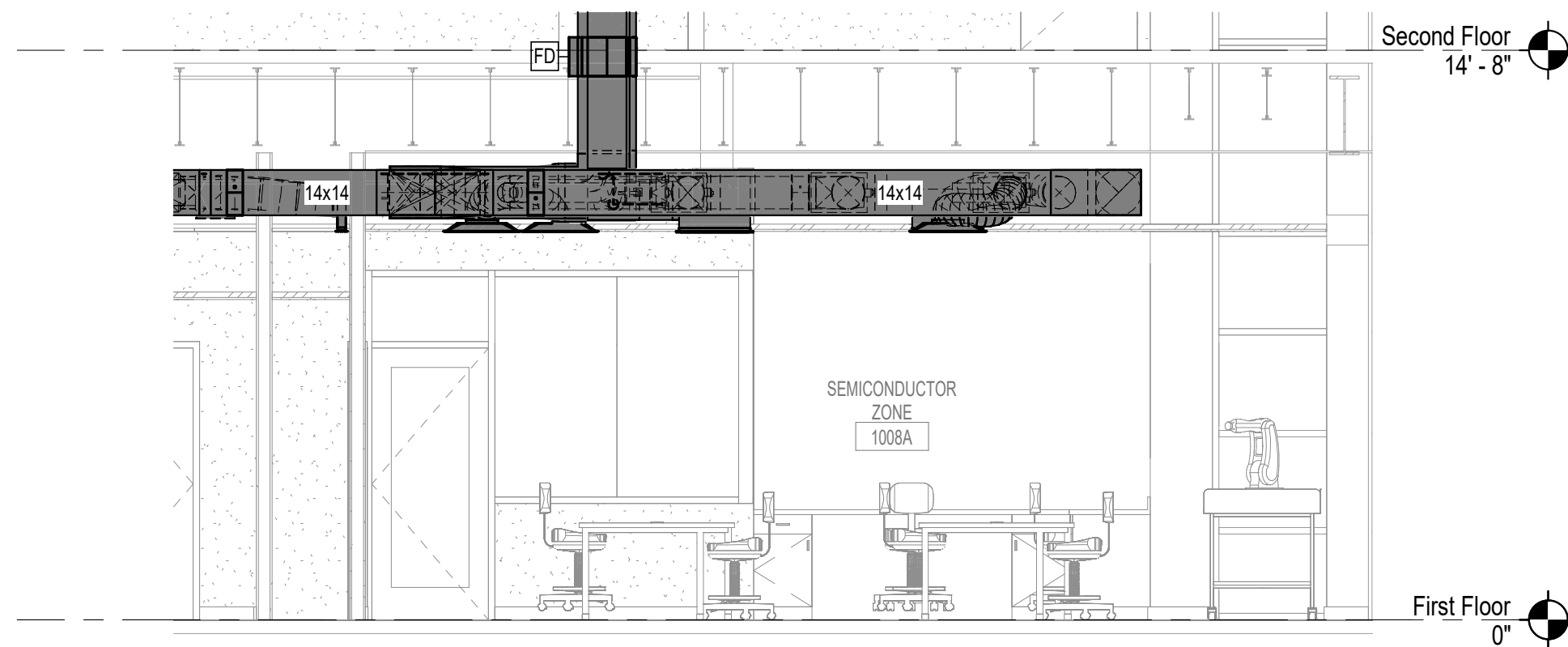
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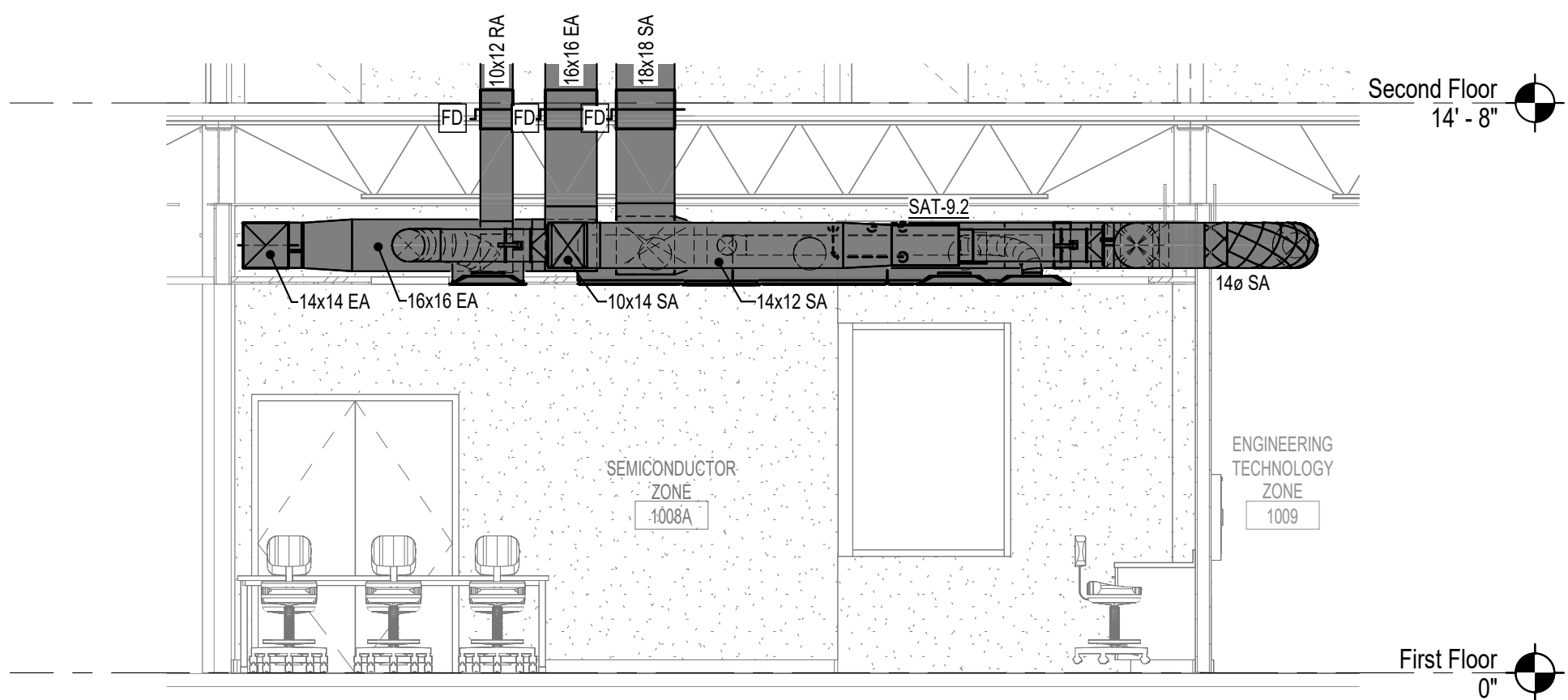
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Sections

SHEET NO.:
M2.1

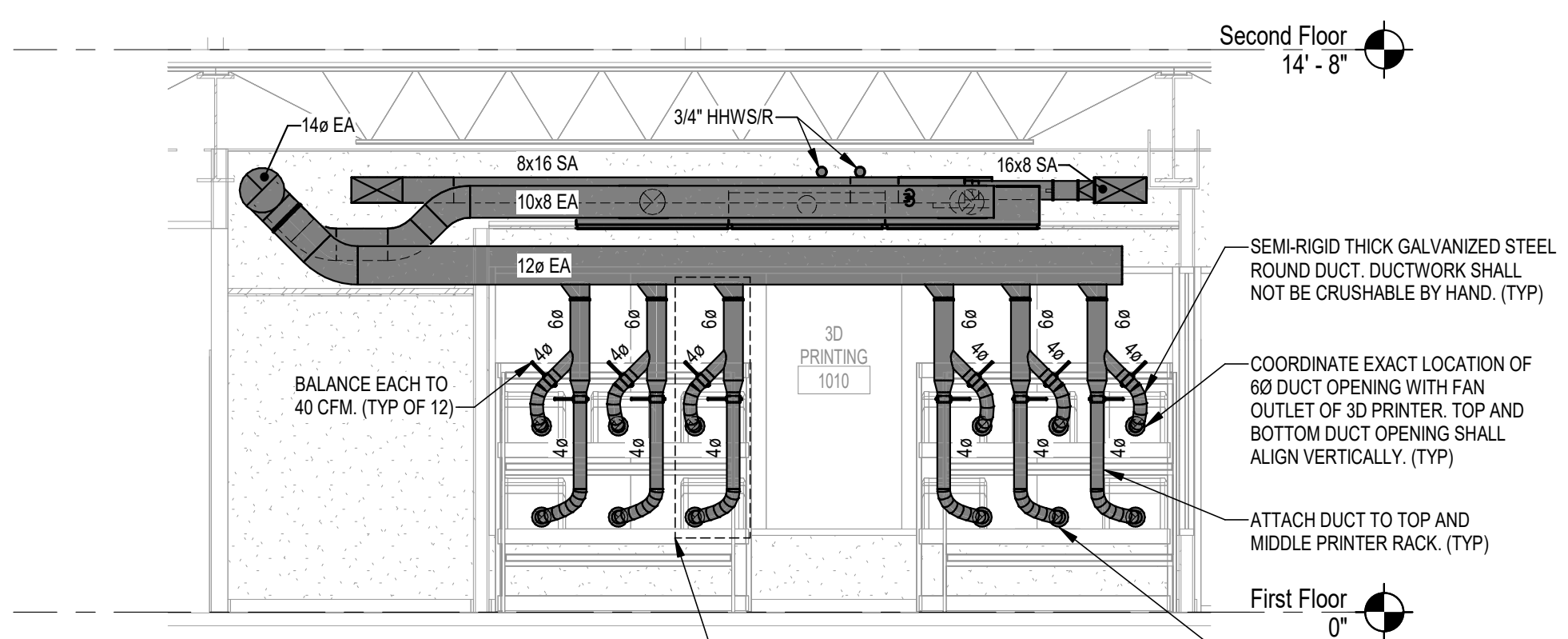
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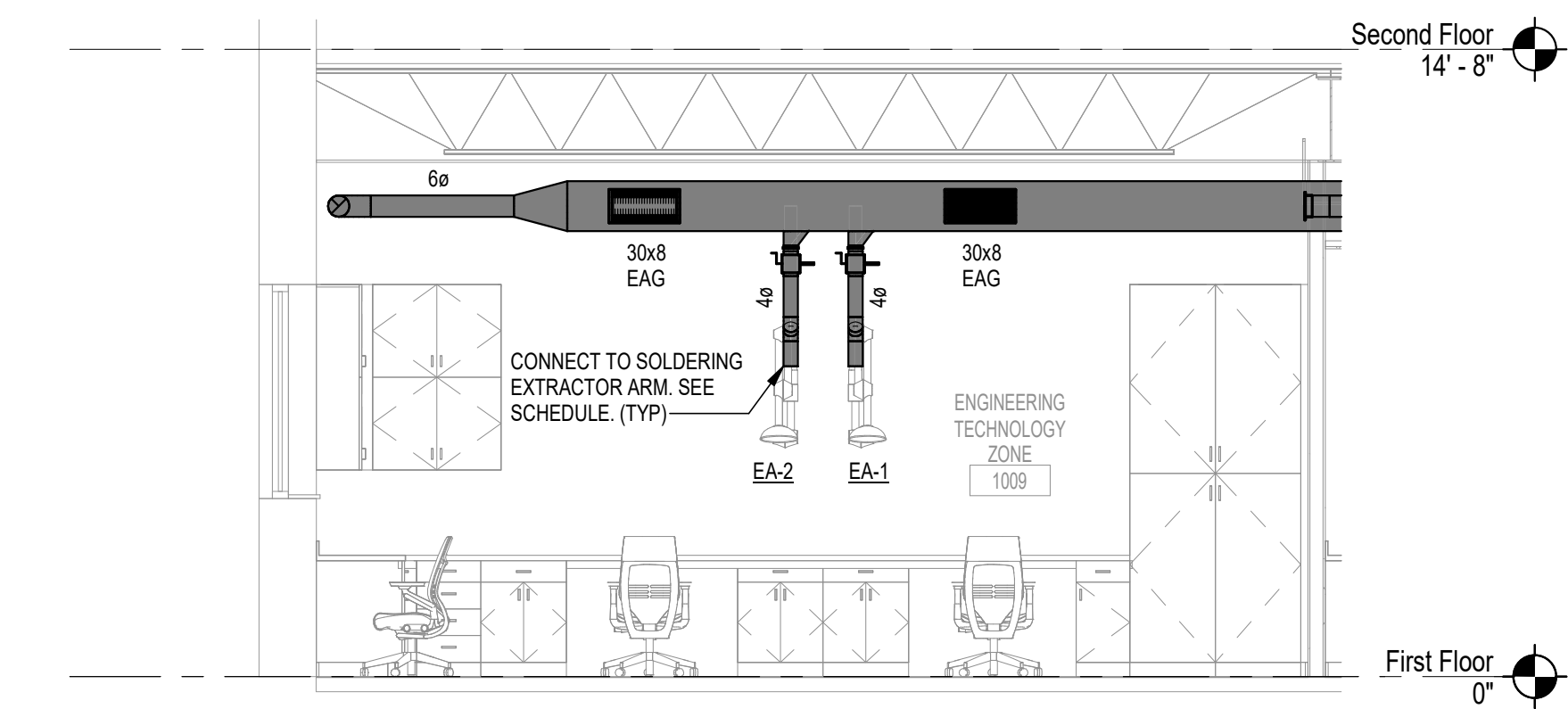
C Section
1/4" = 1'-0"



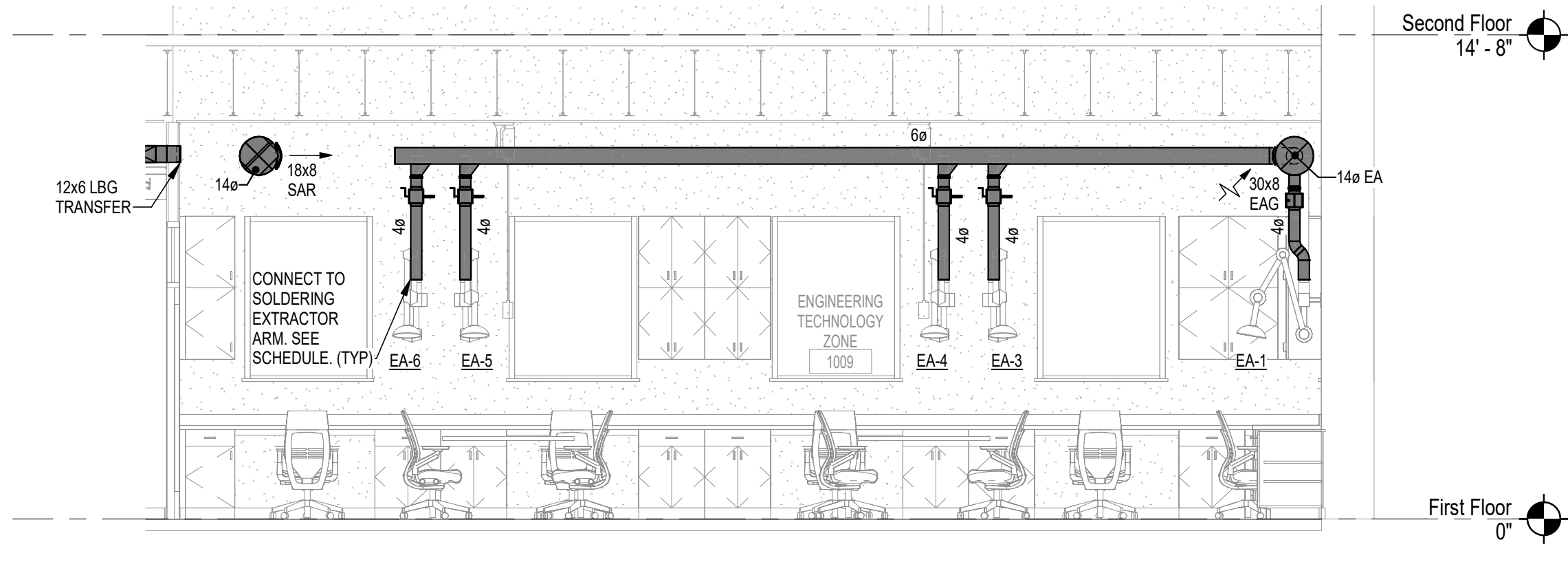
B Section
1/4" = 1'-0"



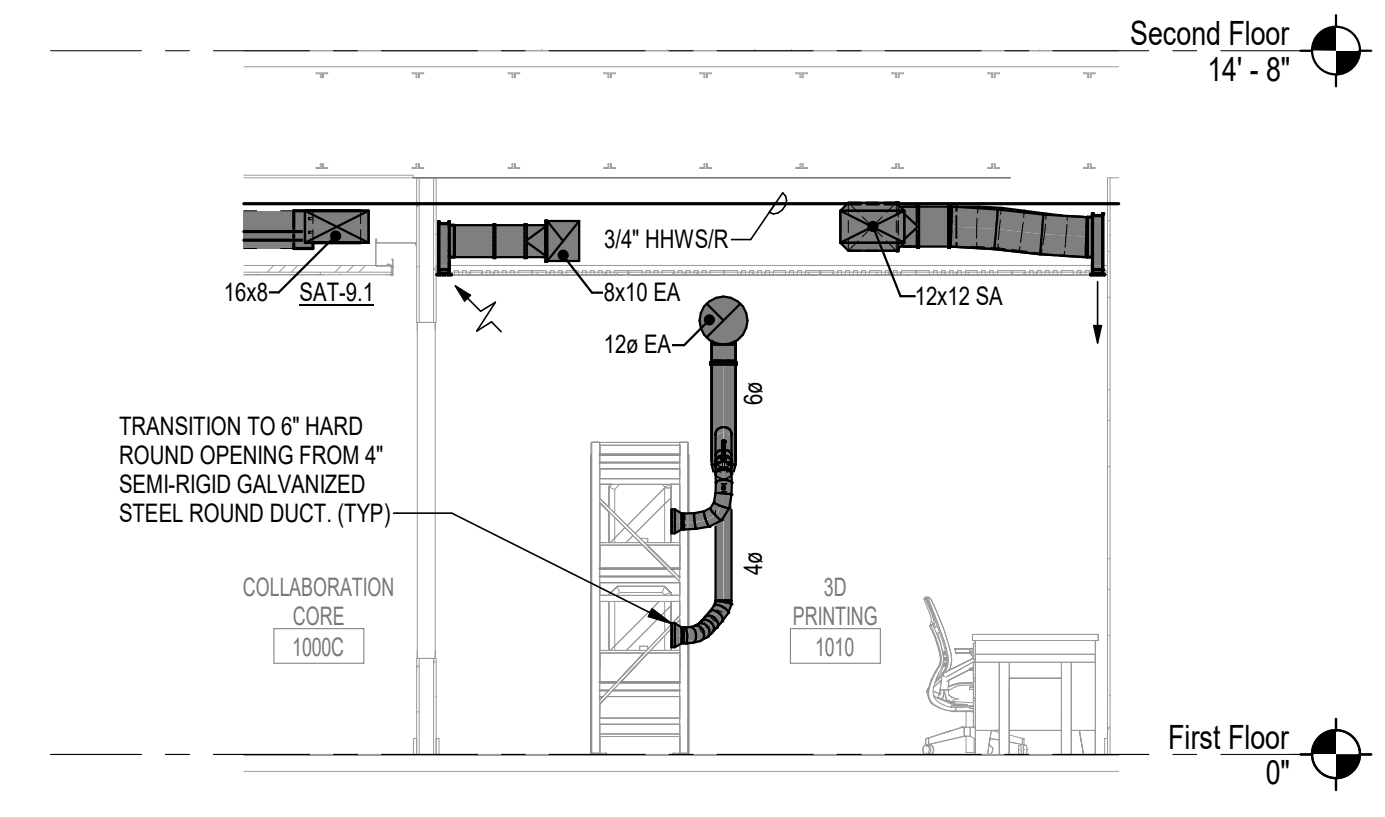
A Section
1/4" = 1'-0"



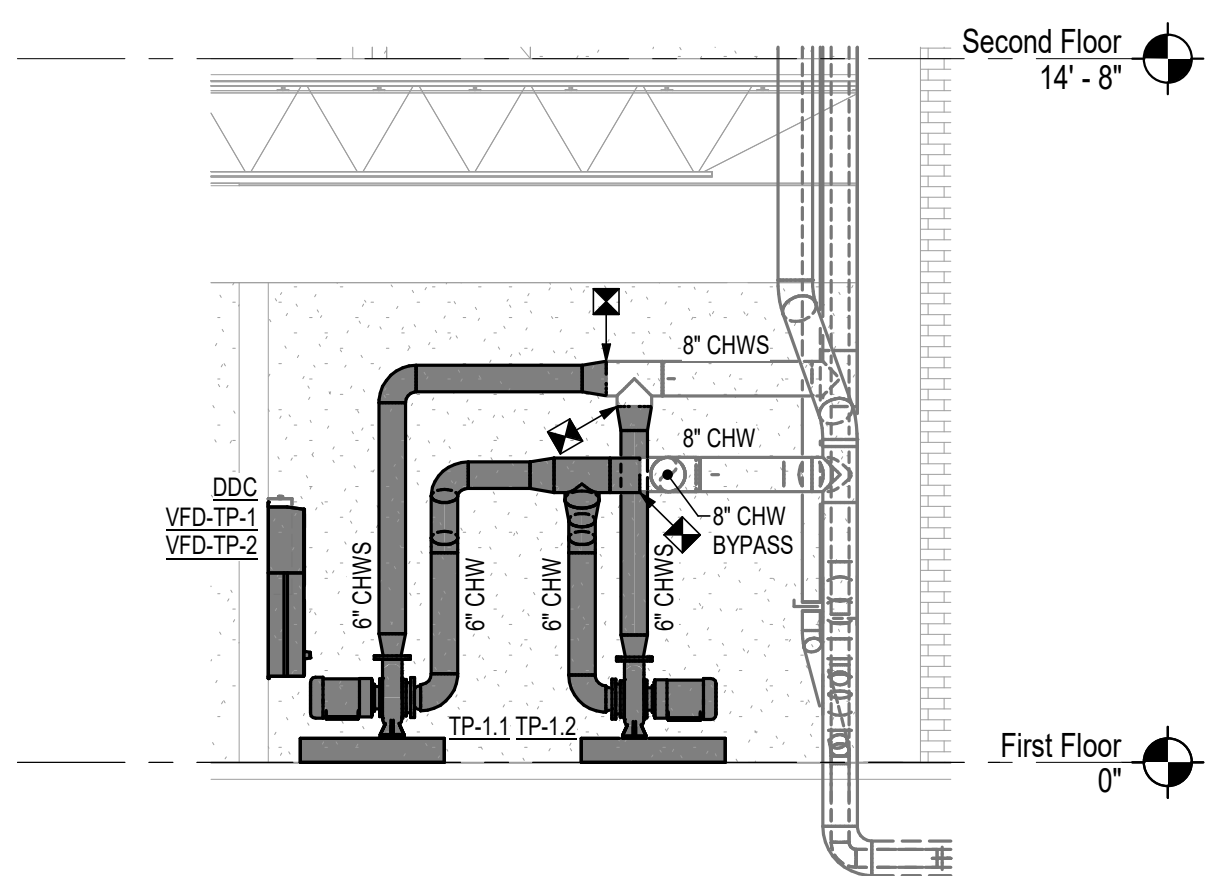
F Section
1/4" = 1'-0"



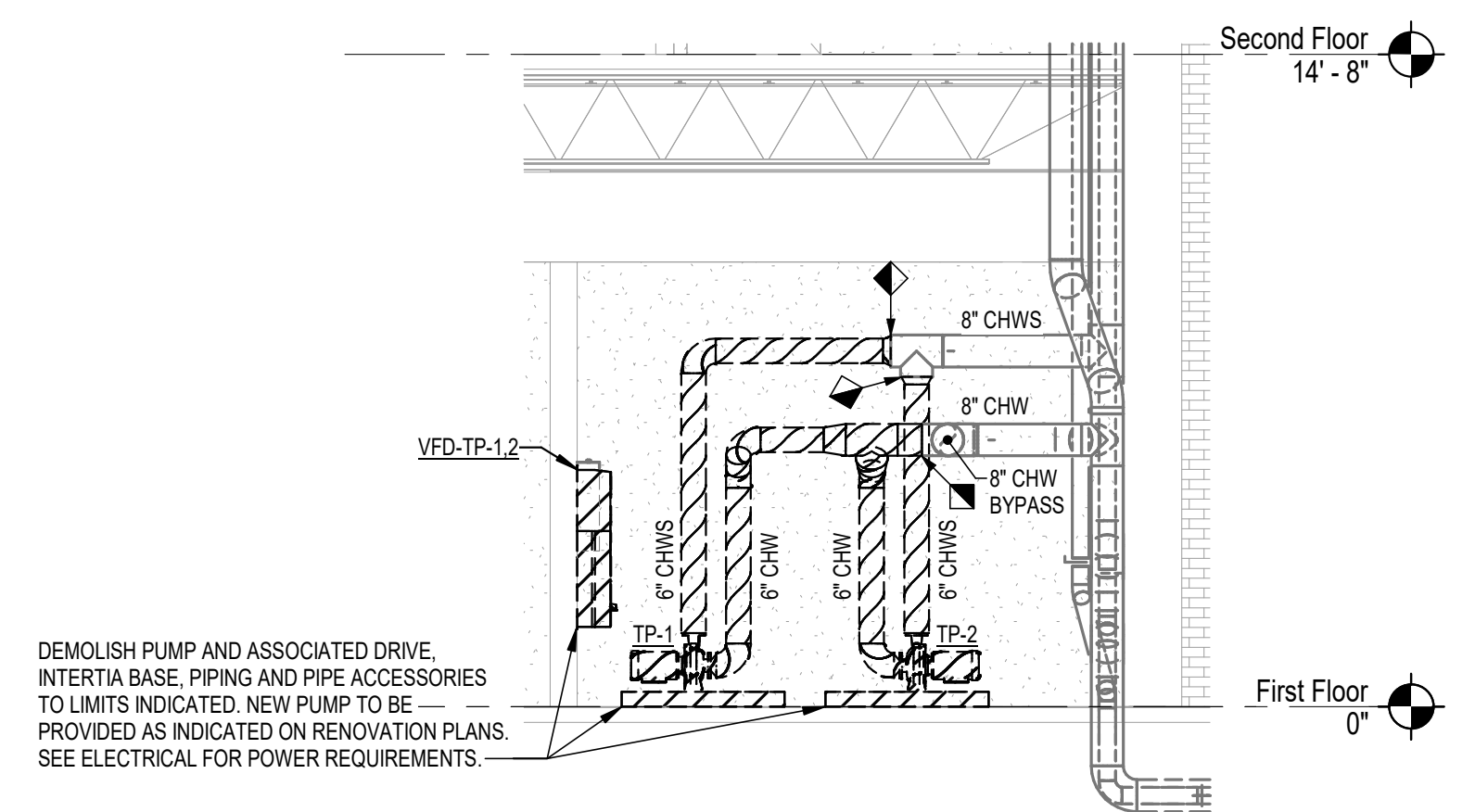
E Section
1/4" = 1'-0"



D Section
1/4" = 1'-0"



H Section
1/4" = 1'-0"



G Section
1/4" = 1'-0"

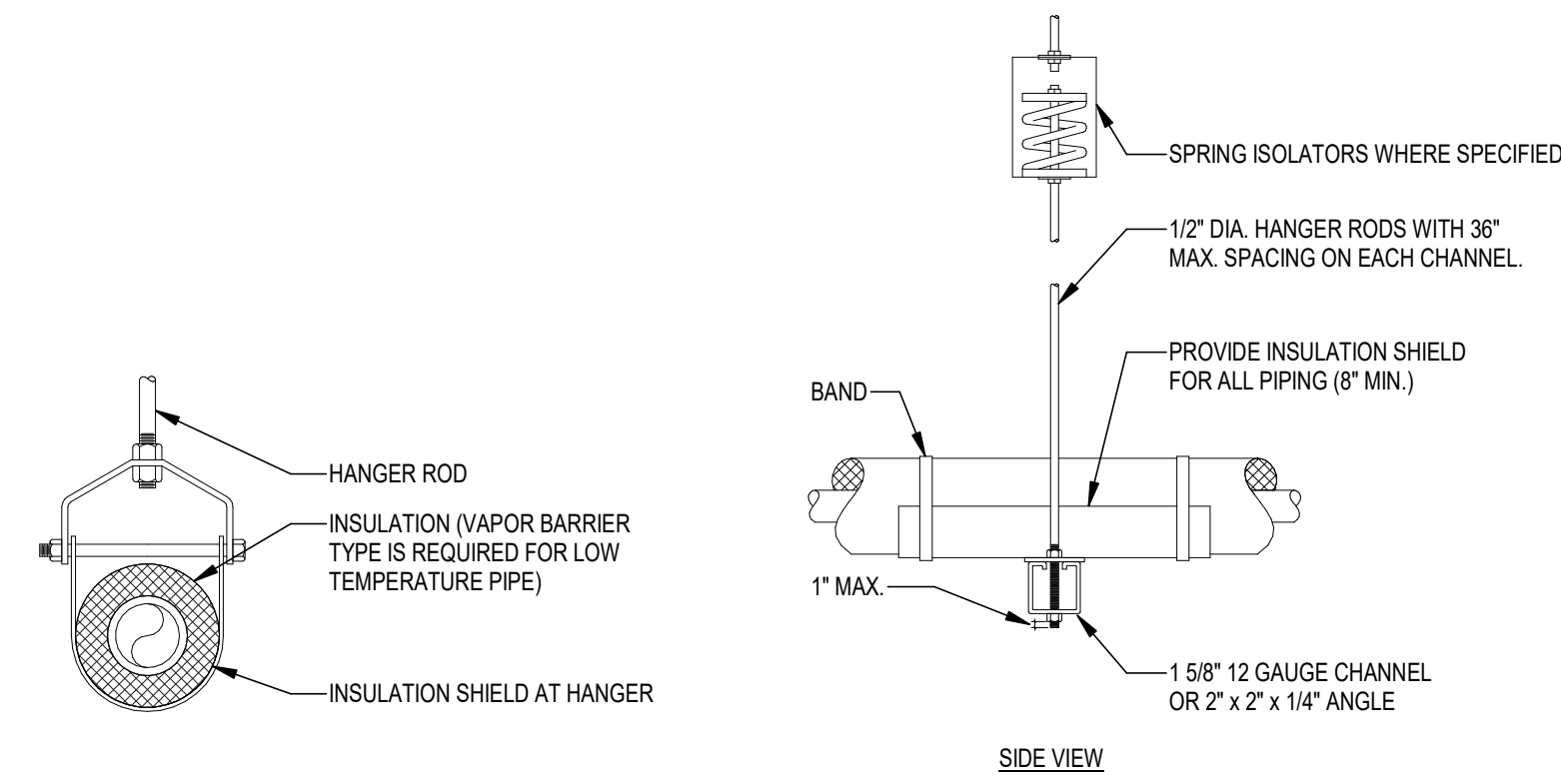
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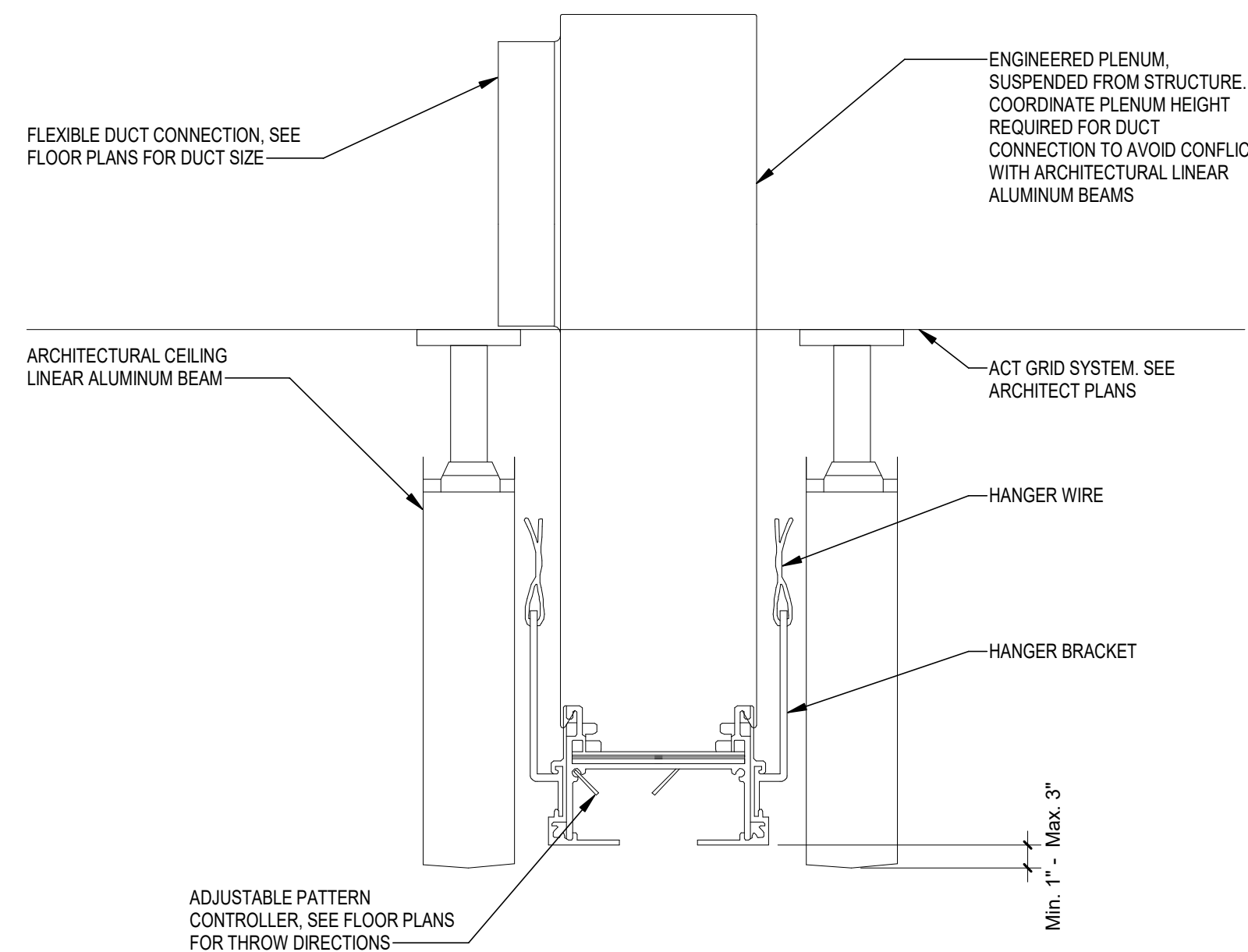
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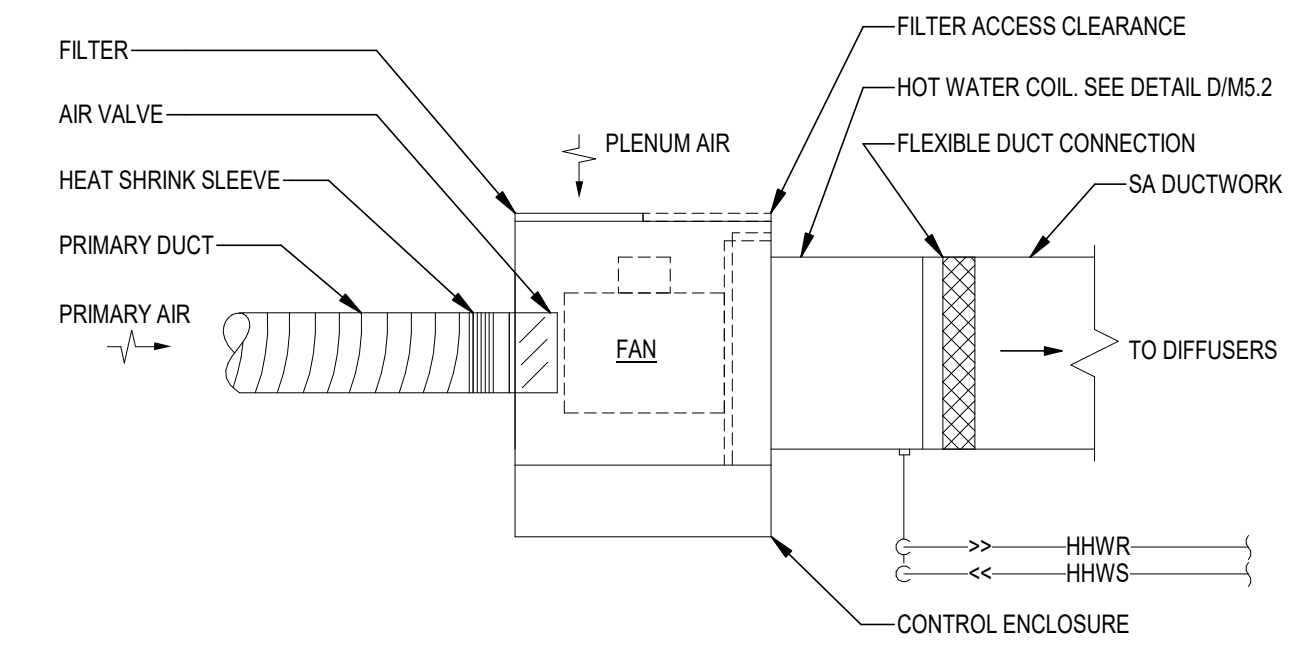
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- NOTES:
1. SEE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.

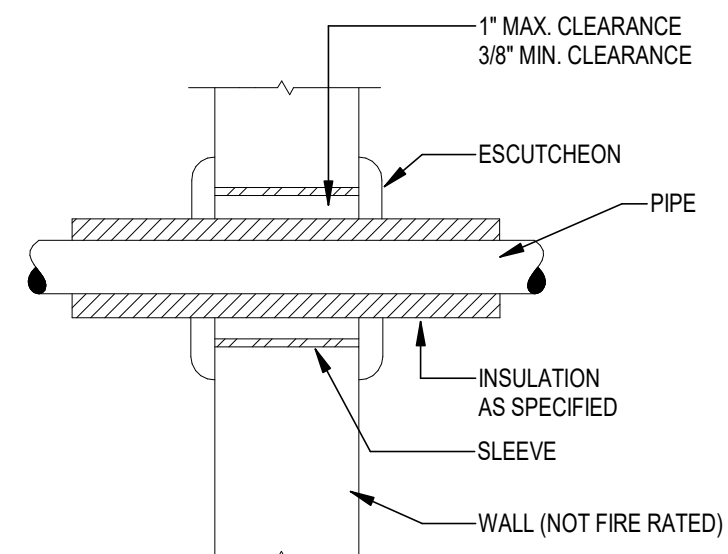


FLUSH MOUNT WITH HANGING BRACKETS
N.T.S.

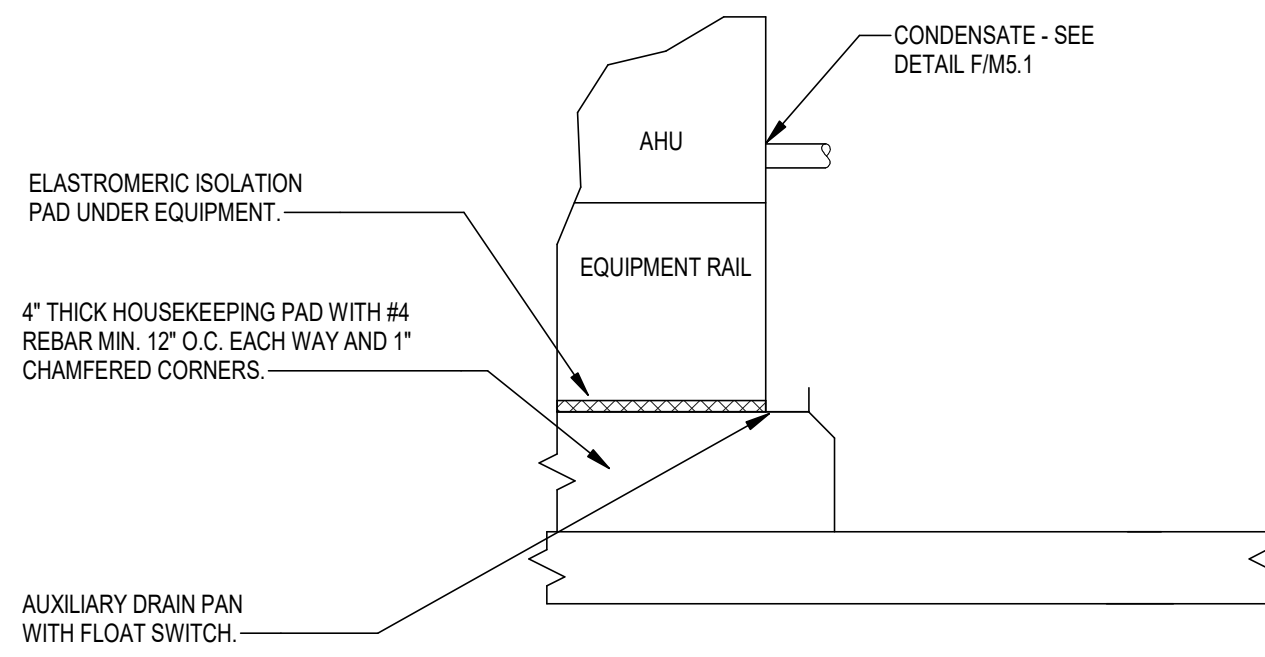


- NOTES:
1. PRIMARY AIR INLET DUCT SHALL BE RIGID DUCT, SAME SIZE AS INLET OF BOX IF 5' OR LESS IN LENGTH. IF LONGER THAN 5' USE DUCTWORK 4\"/>

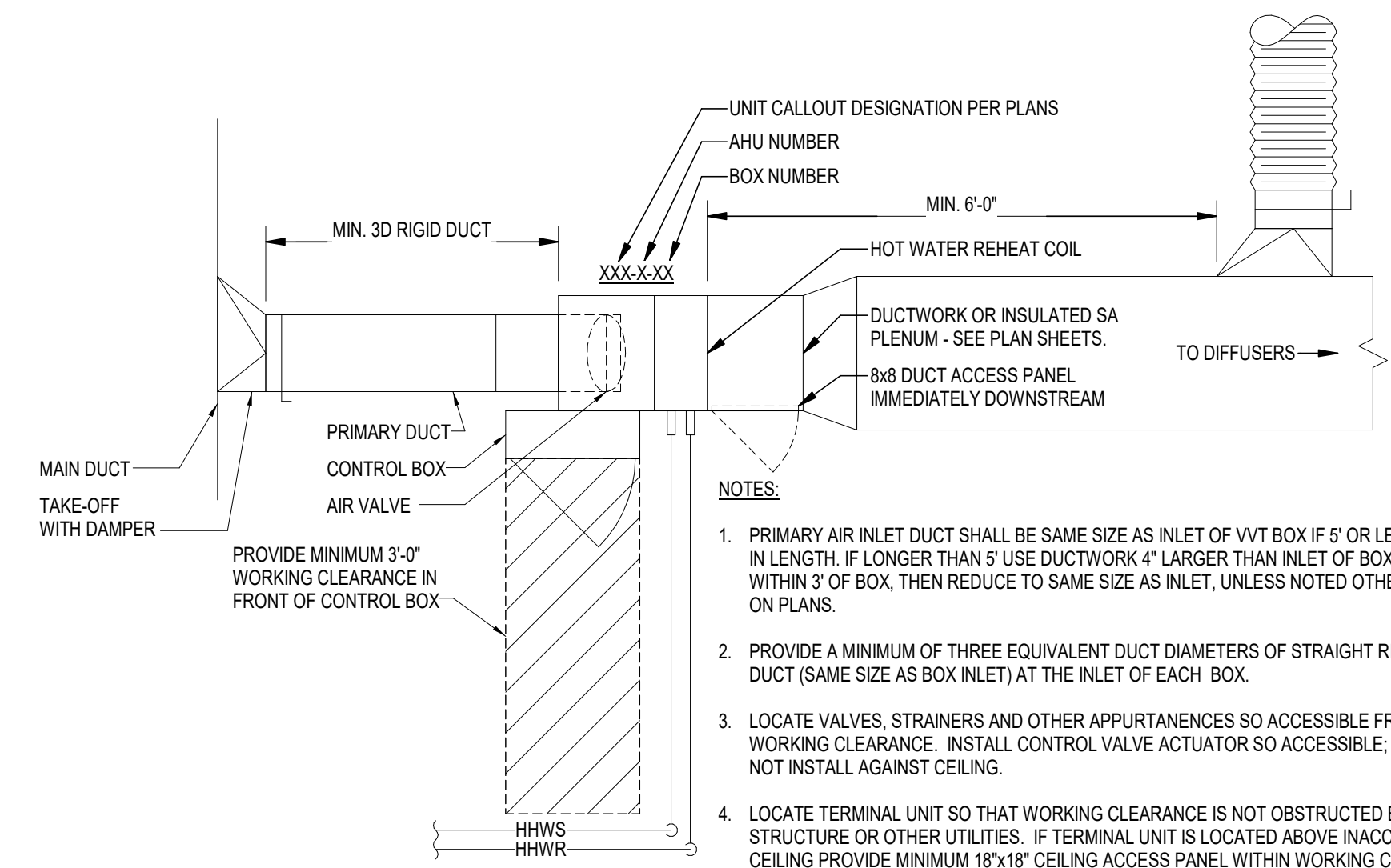
G TYPICAL PIPE HANGERS



D FREELY SUSPENDED LINEAR SLOT DIFFUSER

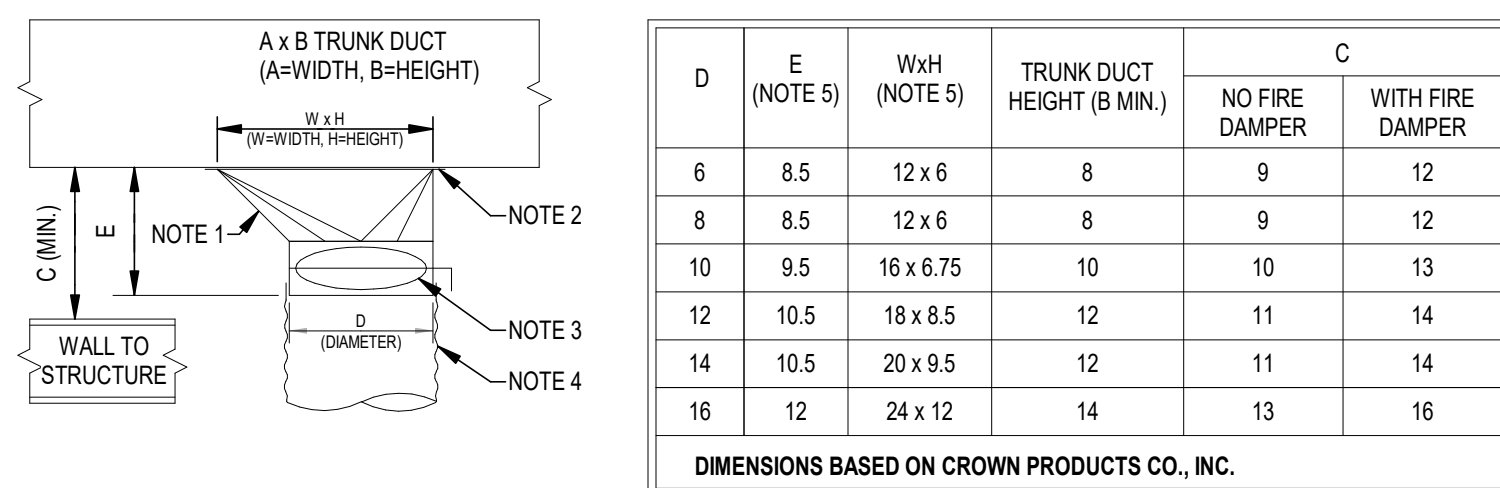


A SERIES FAN TERMINAL VAV BOX



- NOTES:
1. PRIMARY AIR INLET DUCT SHALL BE SAME SIZE AS INLET OF VAV BOX IF 5' OR LESS IN LENGTH. IF LONGER THAN 5' USE DUCTWORK 4\"/>

H PIPE PENETRATION OF NON-FIRE RATED WALL

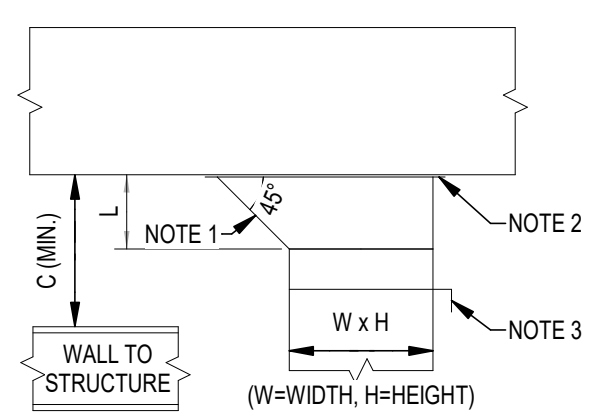


D	E (NOTE 5)	WxH (NOTE 5)	TRUNK DUCT HEIGHT (B MIN.)	C	
				NO FIRE DAMPER	WITH FIRE DAMPER
6	8.5	12 x 6	8	9	12
8	8.5	12 x 6	8	9	12
10	9.5	16 x 6.75	10	10	13
12	10.5	18 x 8.5	12	11	14
14	10.5	20 x 9.5	12	11	14
16	12	24 x 12	14	13	16

DIMENSIONS BASED ON CROWN PRODUCTS CO., INC.

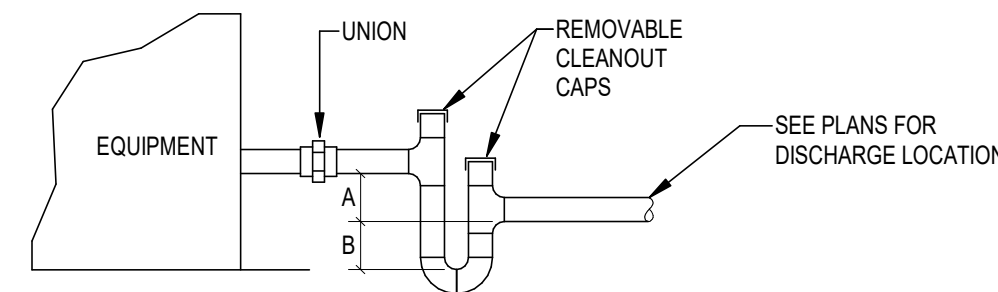
- NOTES:
1. 45° ENTRY.
2. 1\"/>

- L = W/4 (4\"/>



RECTANGULAR DUCT

E AHU EQUIPMENT PAD



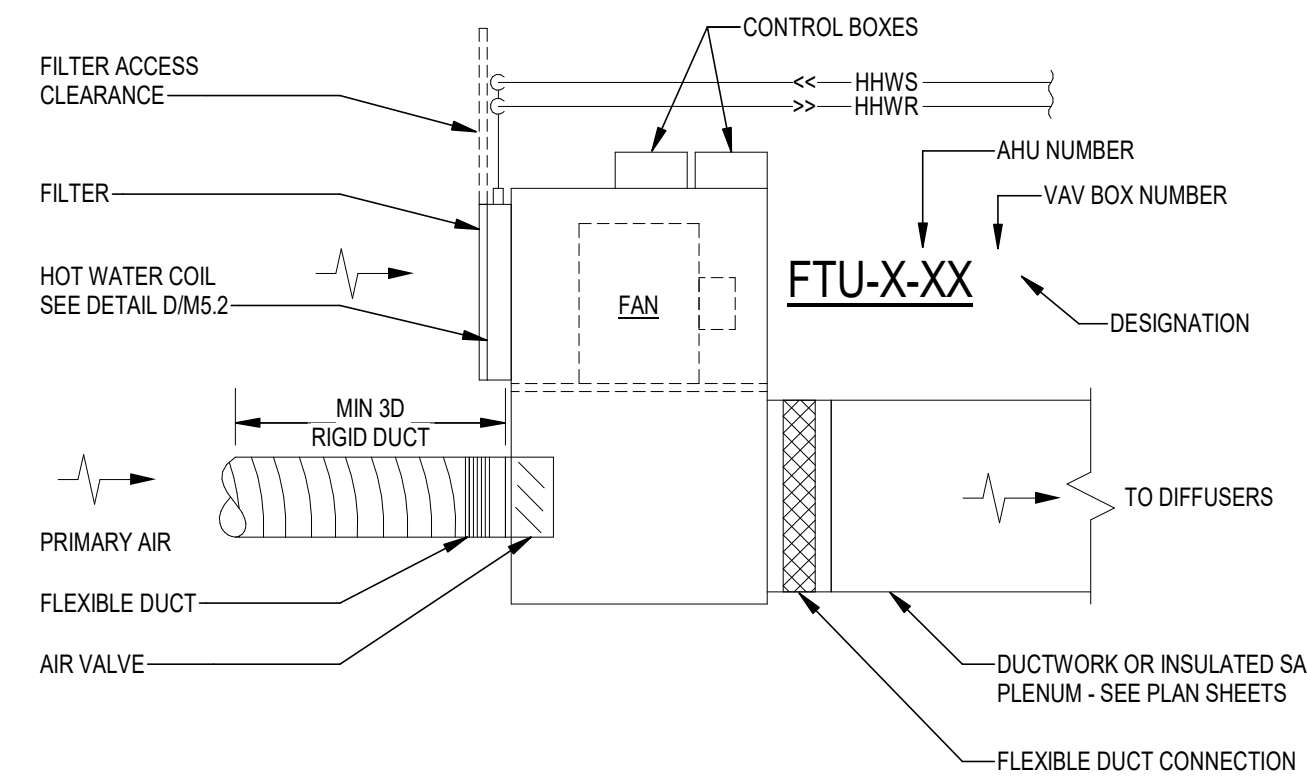
NOTES:

1. DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN (1\"/>

UNIT TYPE	A	B
DRAW-THRU	X PLUS 2"	X
BLOW-THRU	1\"/>	

WHERE X=STATIC PRESSURE IN PAN

B SUPPLY AIR TERMINAL WITH HHW REHEAT



NOTES:

1. INSTALL SO BOTTOM OF BOX IS 12\"/>

J TYPICAL DUCT TAKE-OFF FITTINGS

F CONDENSATE DRAIN

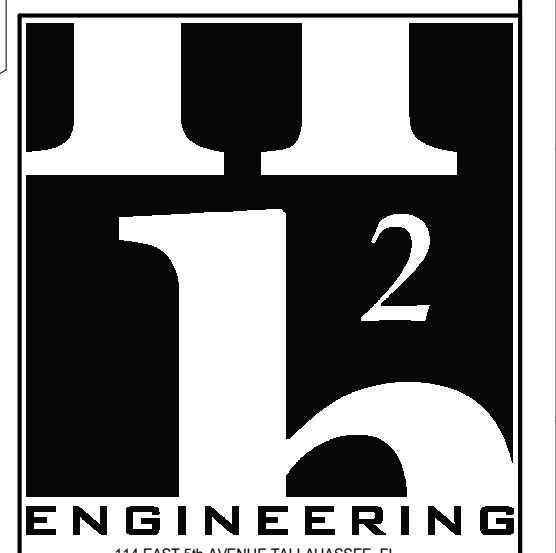
C PARALLEL FAN TERMINAL UNIT

12
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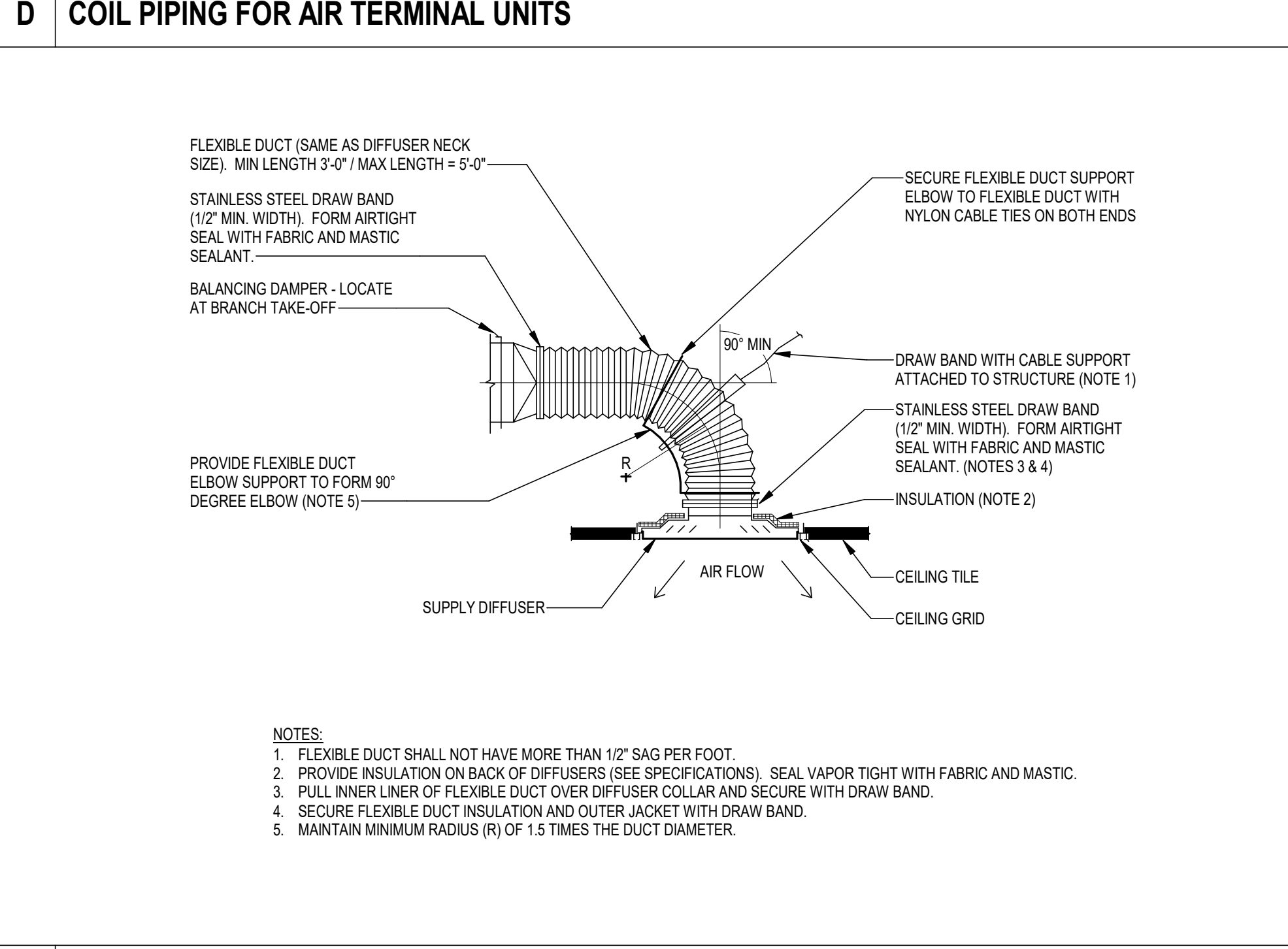
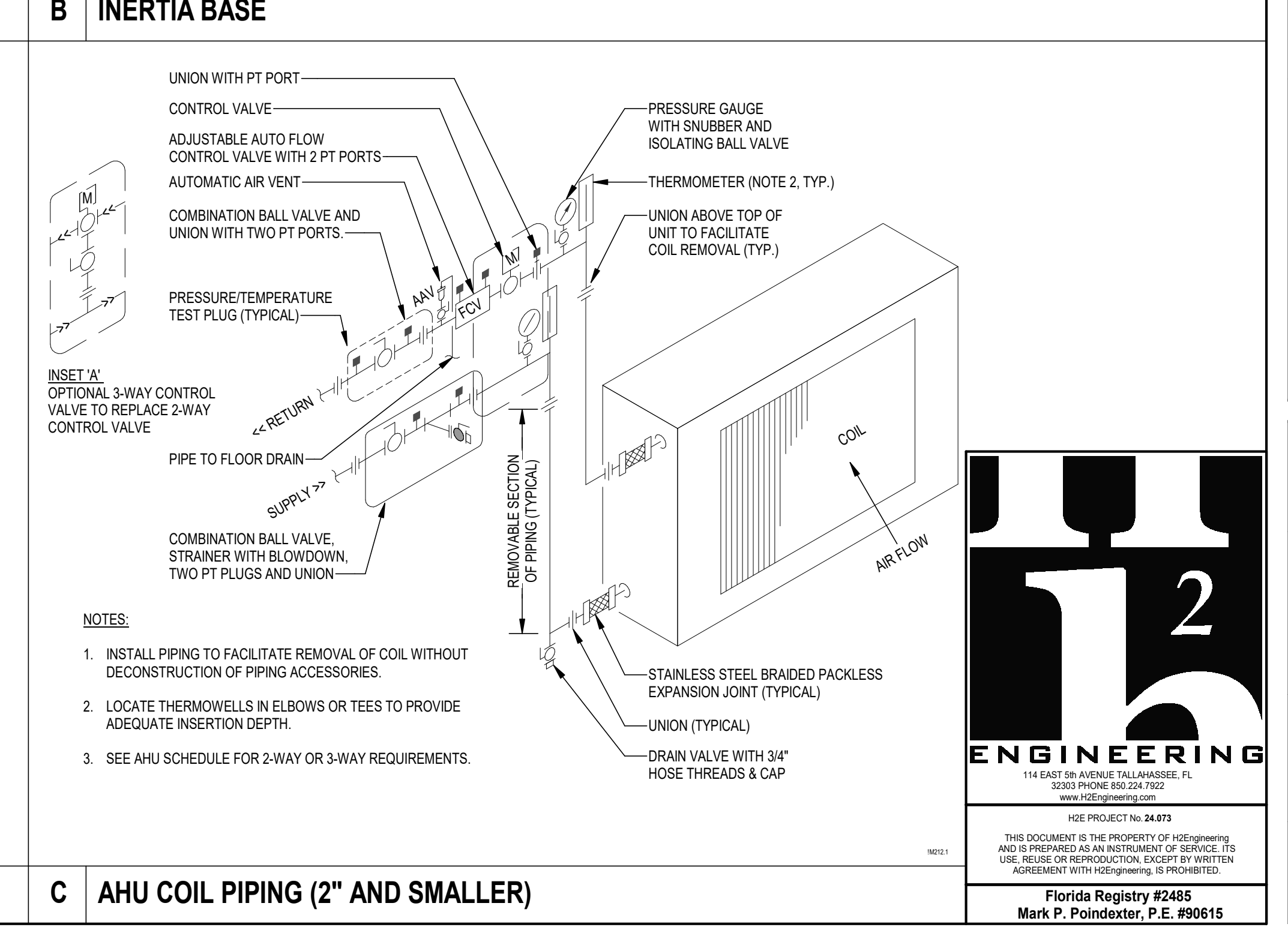
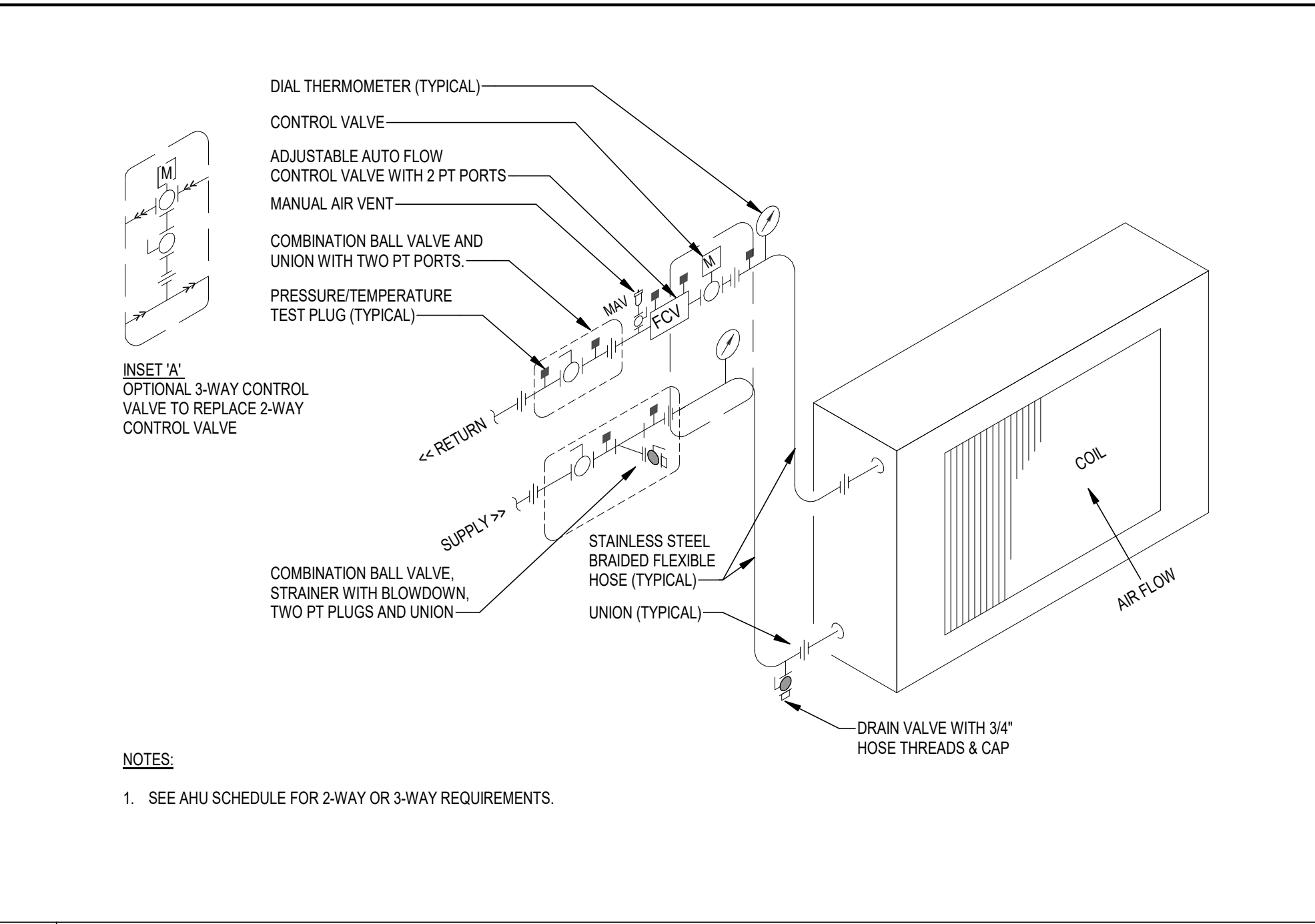
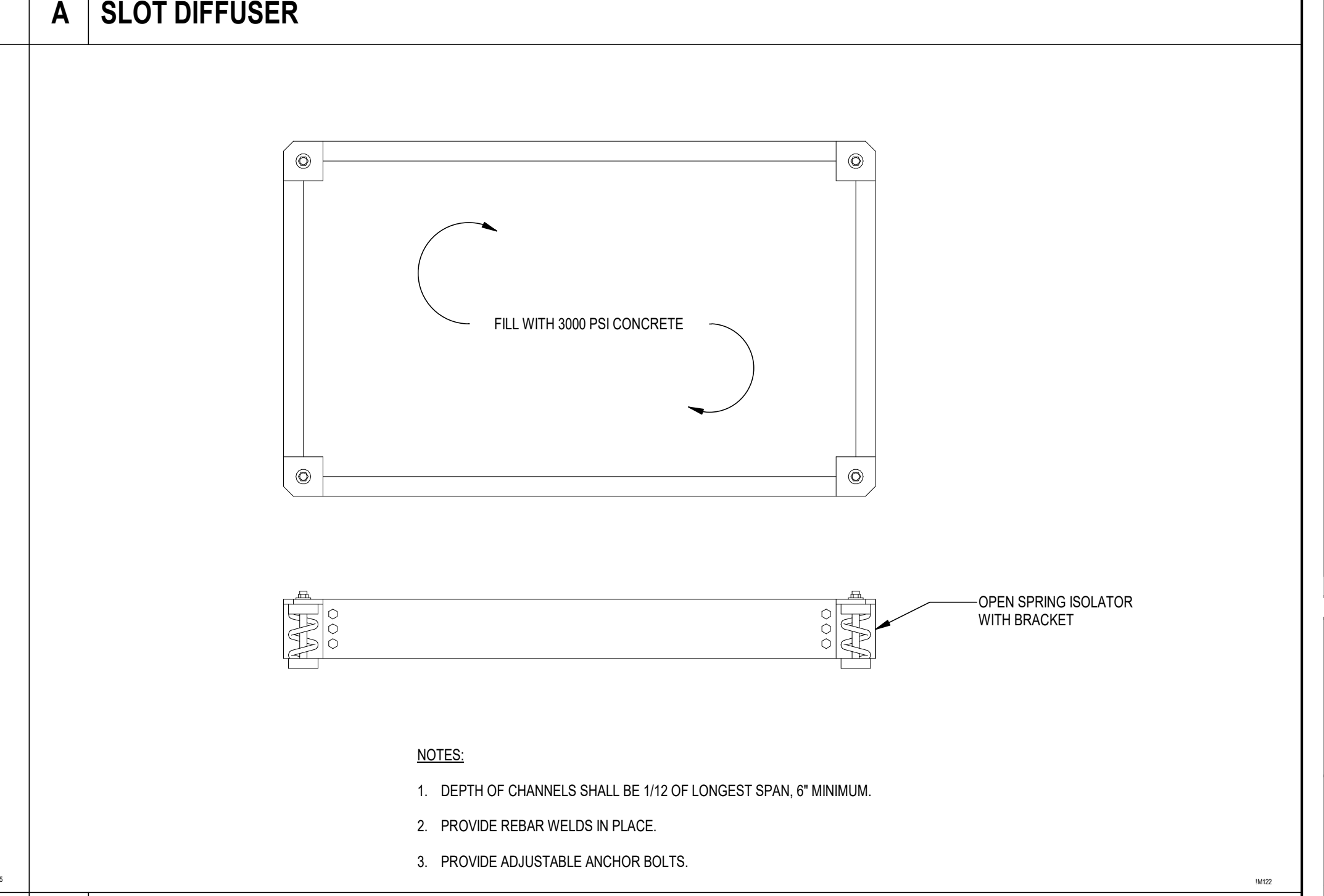
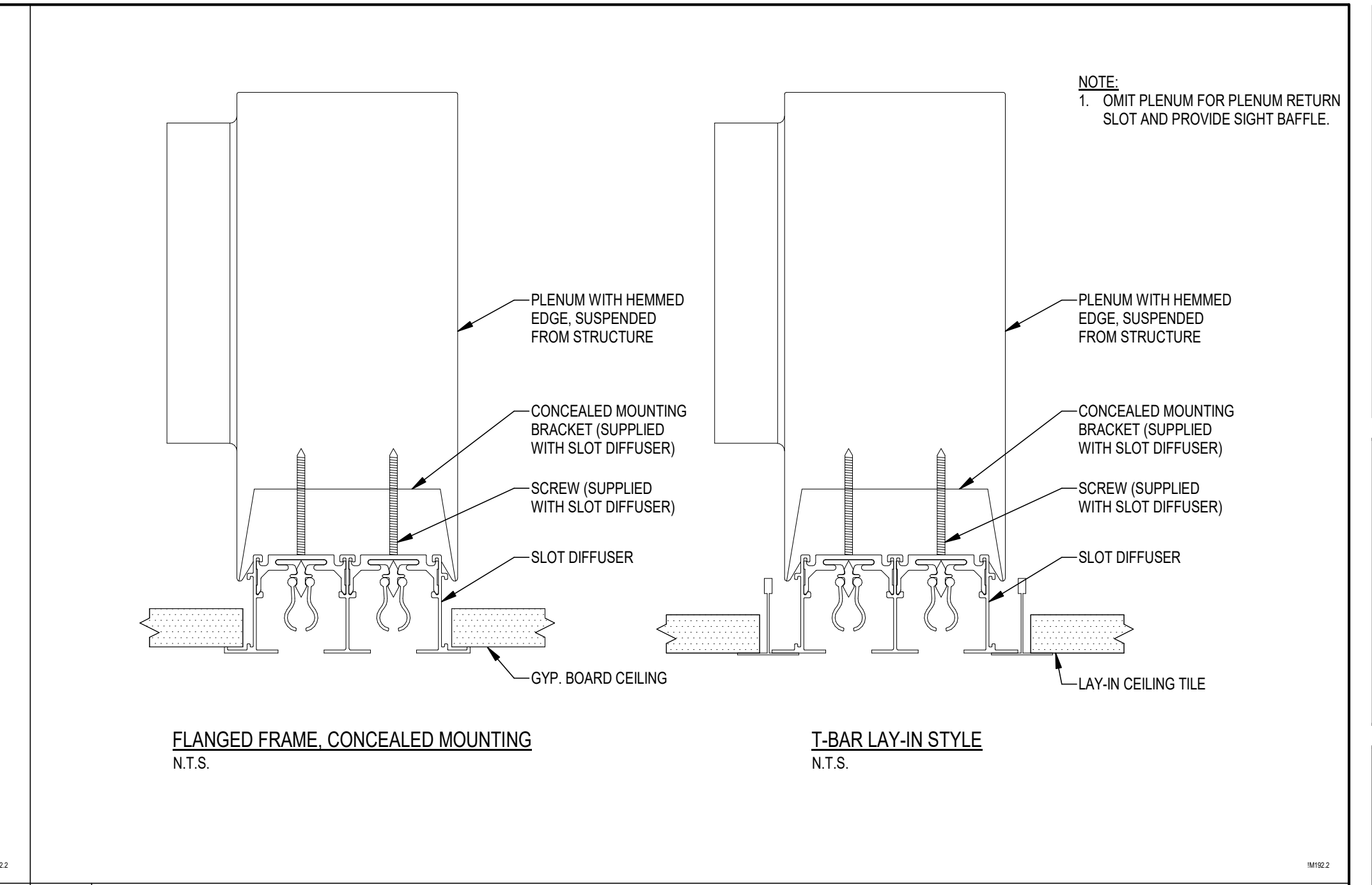
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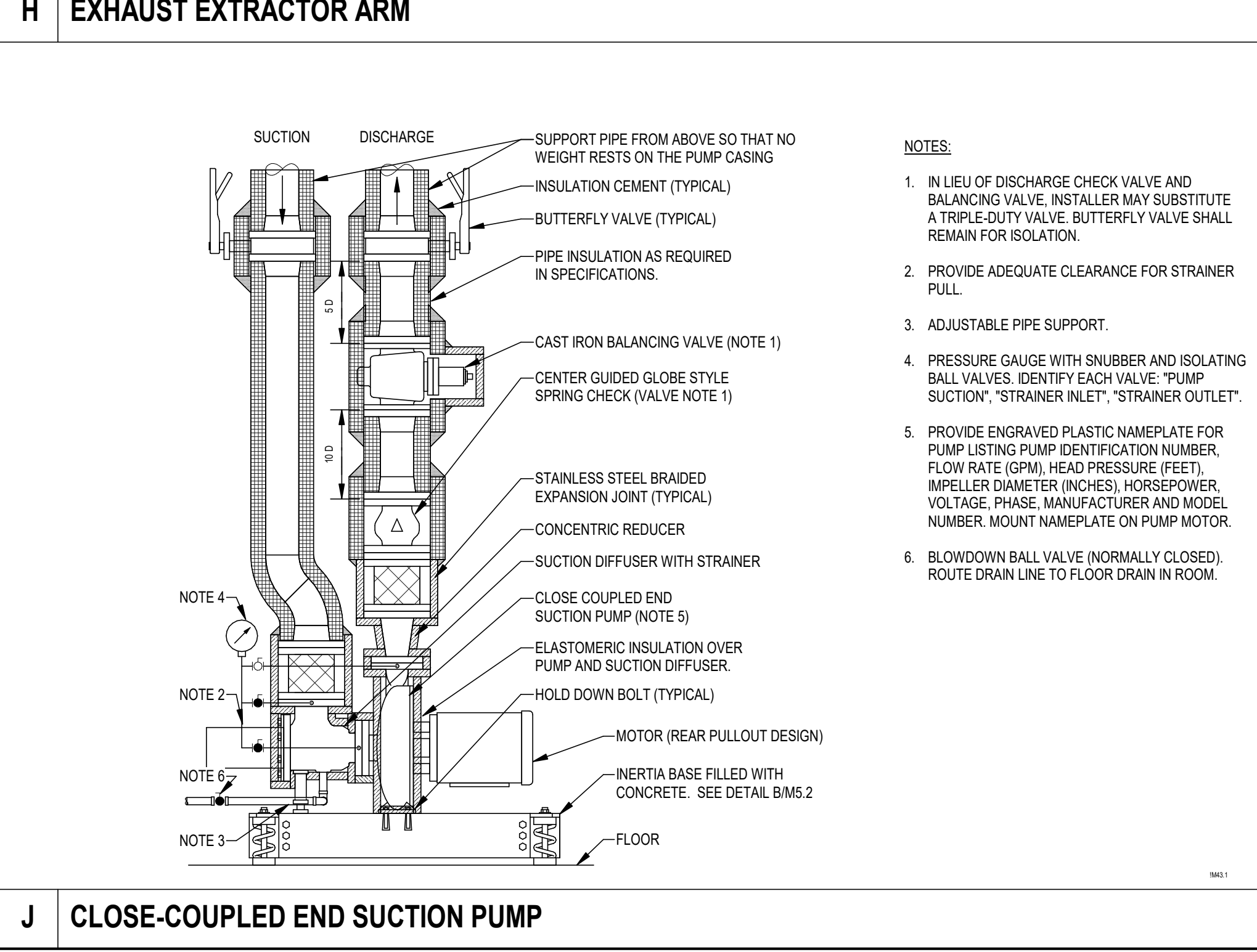
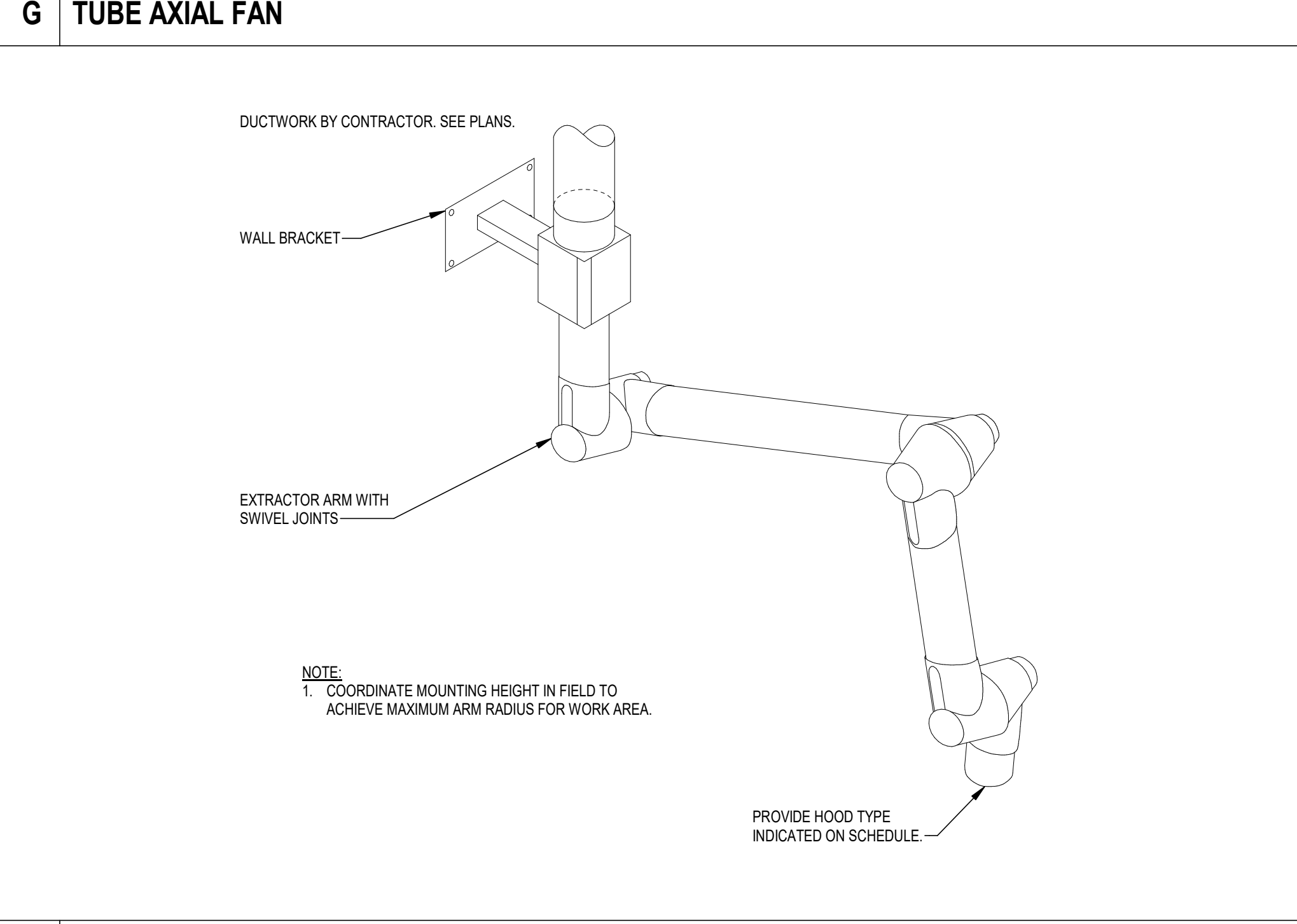
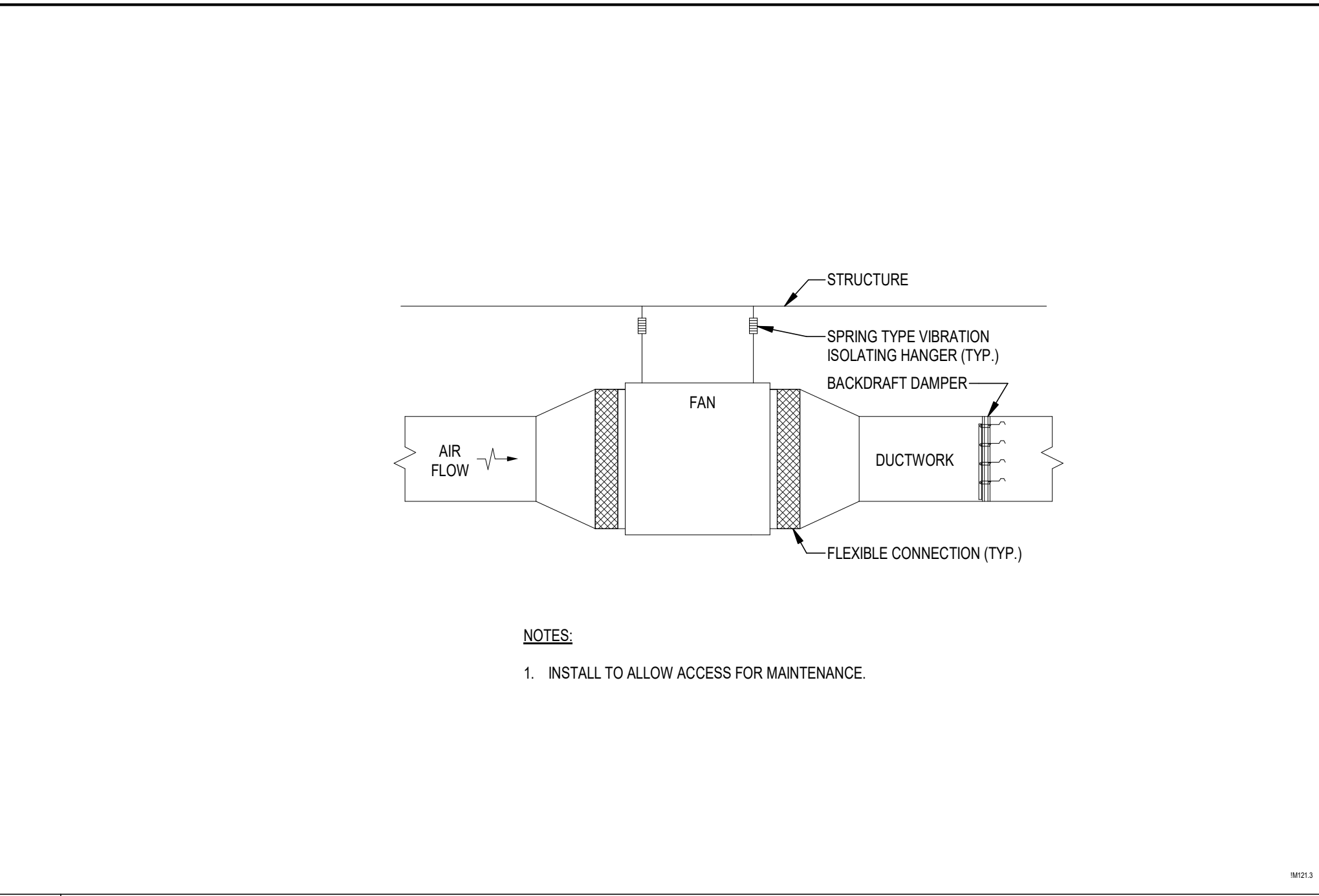
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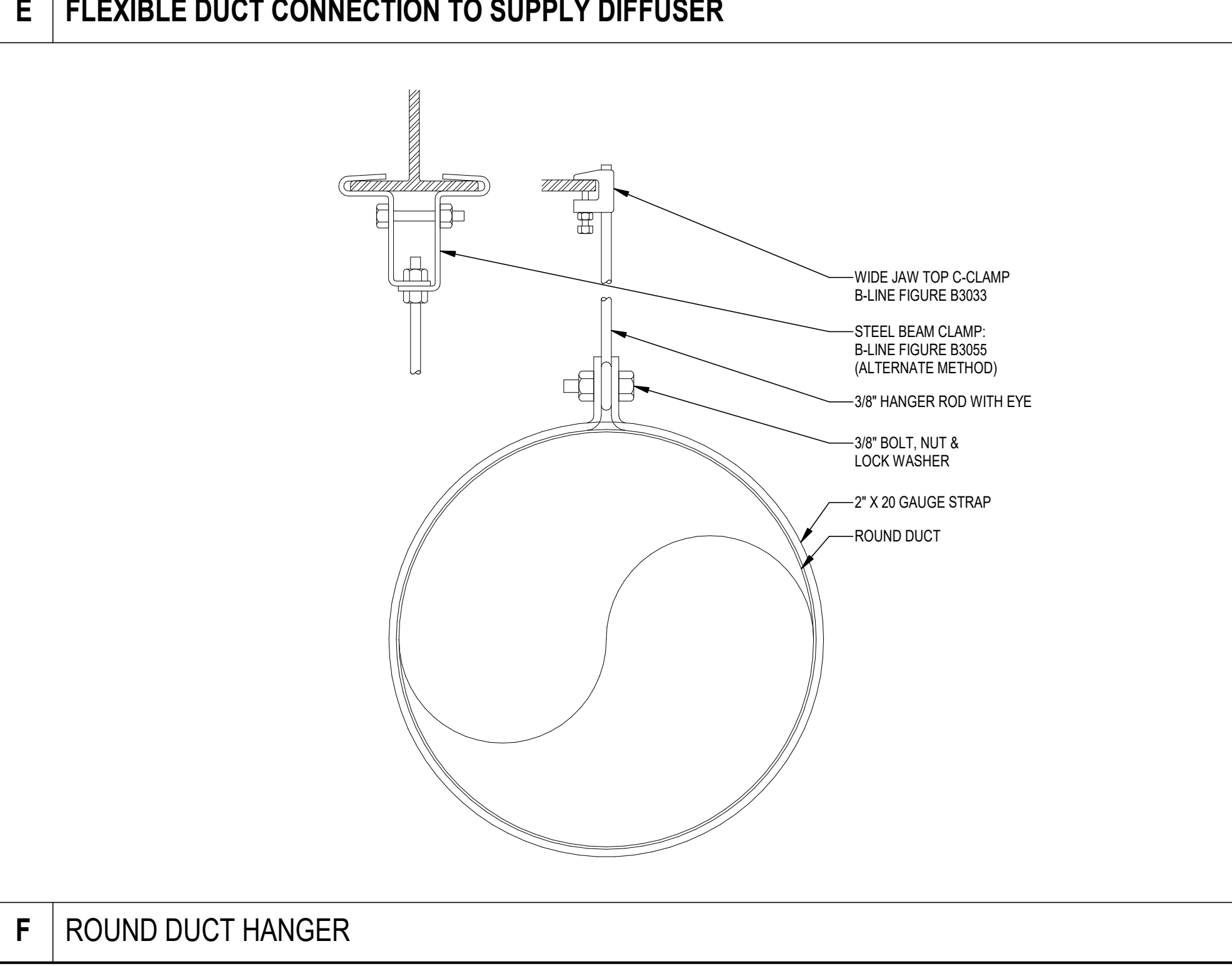
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C AHU COIL PIPING (2" AND SMALLER)



J CLOSE-COUPLED END SUCTION PUMP



F ROUND DUCT HANGER

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SEAL:

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TSC Library - 1st Floor**
444 Appleyard Drive,
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JOB NO.: 24-103

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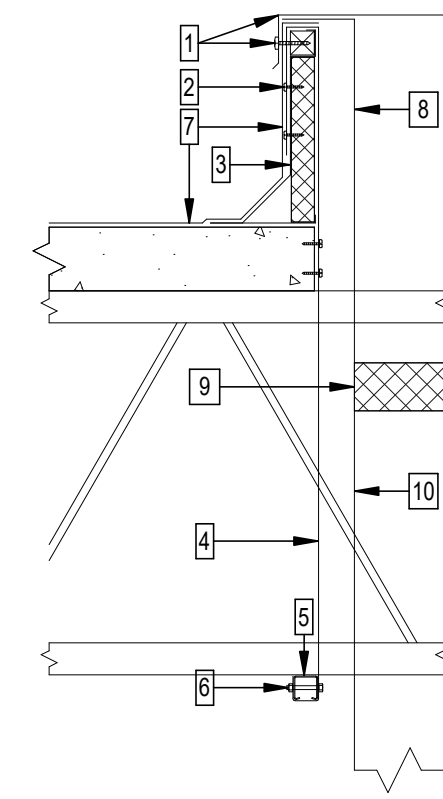
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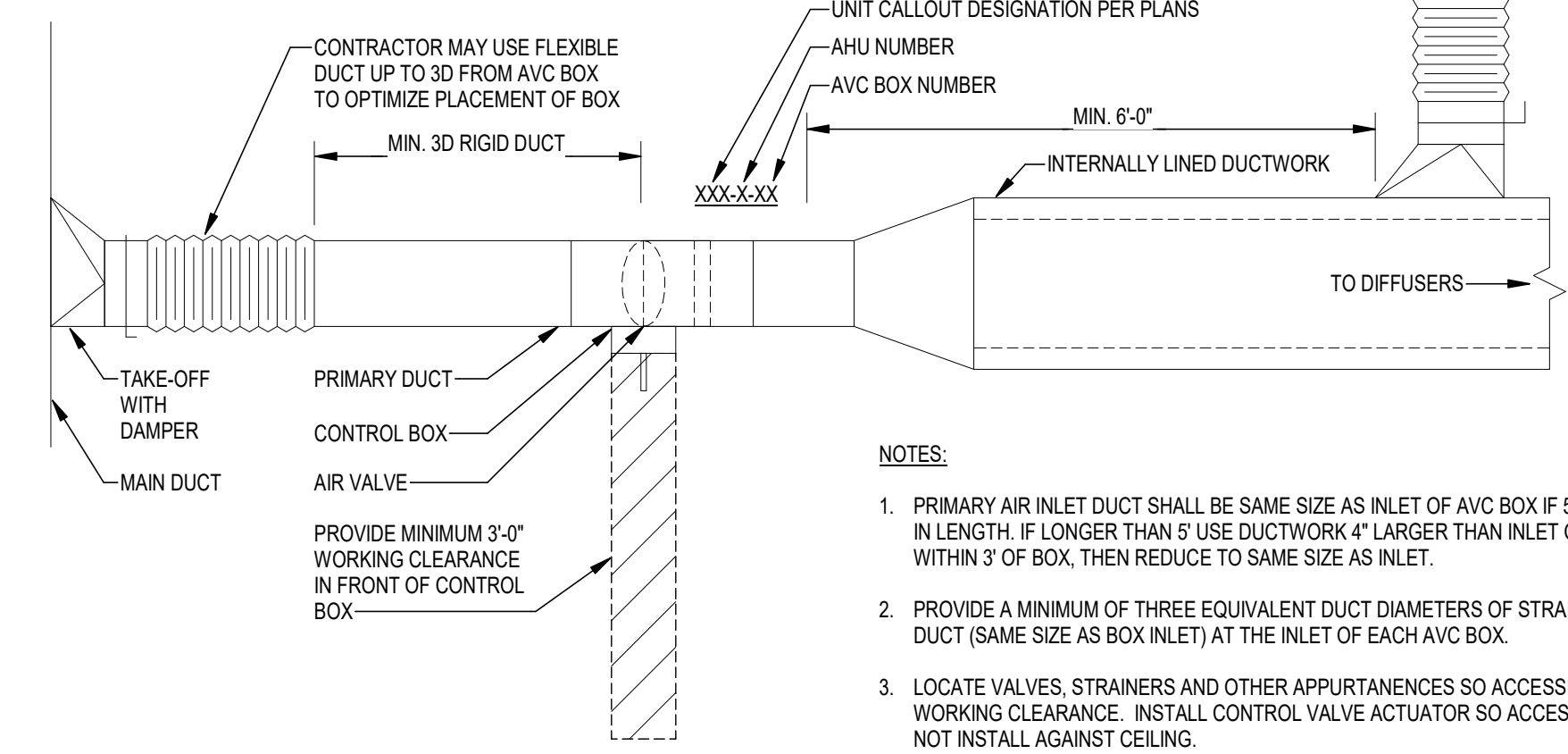
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NOTES: (THIS DETAIL ONLY)

- 1 SECURE EQUIPMENT OR CURB CAP TO ROOF CURB WITH 3/8" 2"x1" LAG BOLTS @ 12" O.C. ALL AROUND. CAULK BOLTS WITH SILICONE. APPLY CONTINUOUS FOAM RUBBER GASKET TO UNDERSIDE OF CURB CAP.
- 2 WRAP STRAP OVER TOP OF CURB AND ATTACH TO OUTSIDE OF CURB WITH FOUR STAINLESS STEEL SHEET METAL SCREWS.
- 3 PREFABRICATED INSULATED ROOF CURB WITH PRESSURE TREATED WOOD NAILER AND INTEGRAL CANT, MIN. 12" HIGH (SEE SPECIFICATIONS). PROVIDE RAISED CANT MODEL FOR INSULATED ROOF.
- 4 GALVANIZED STEEL STRAPS AT CURB CORNERS - SIMPSON "STRONG-TIE" CMSTC16, OR EQUAL. SECURE TO STRUCTURAL STEEL ANGLE WITH #412 SCREWS.
- 5 UNISTRUT BOLTED TO ROOF STRUCTURE (SPAN AT LEAST TWO BAR JOISTS).
- 6 WRAP STRAP AROUND THREE SIDES OF UNISTRUT AND FASTEN WITH 1/4" STAINLESS STEEL BOLT, WASHER, LOCK WASHER AND NUT.
- 7 ROOF MEMBRANE SHALL TURN UP ON OUTSIDE OF ROOF CURB AND COVER THE TIE-DOWN STRAPS. FASTEN TO WOOD NAILER AT TOP OF CURB.
- 8 PROVIDE DUCT (WHERE INDICATED ON PLANS) WITH FLANGE ATTACHED TO TOP OF ROOF CURB. ALLOW SPACE FOR DUCT INSULATION, IF REQUIRED.
- 9 FLEXIBLE DUCT CONNECTION.
- 10 SUPPORT LOWER SECTION OF DUCT FROM ROOF STRUCTURE.

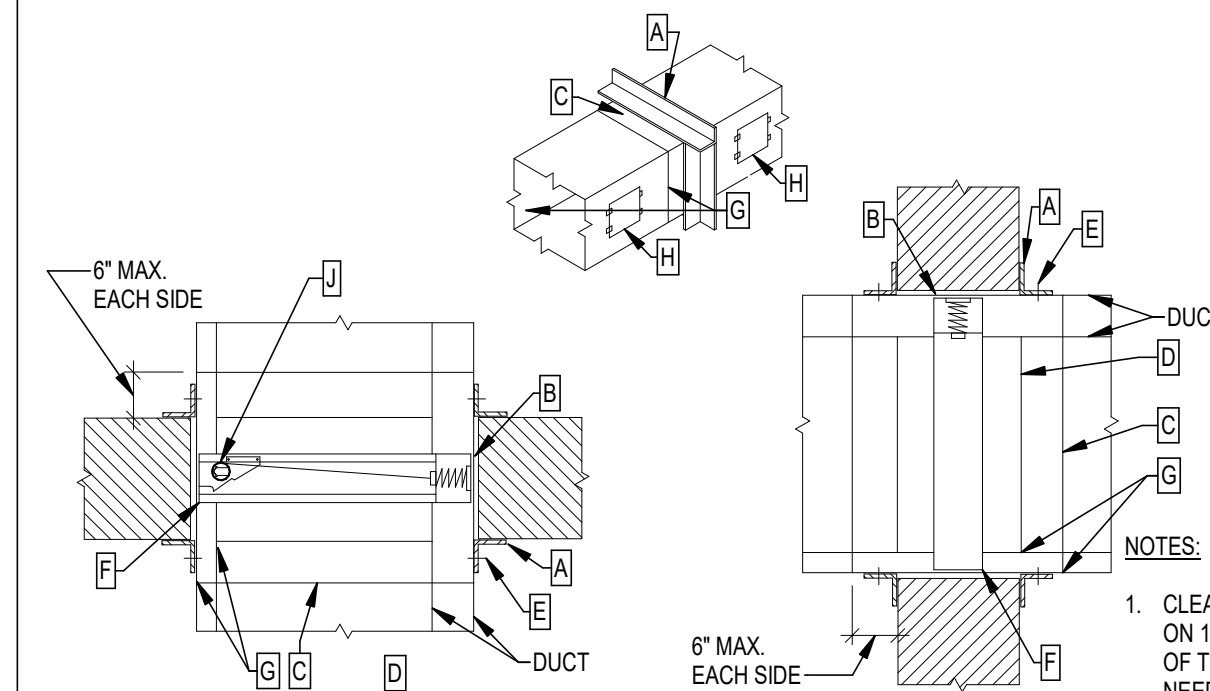
D ROOF CURB AND TIE-DOWN



NOTES:

1. PRIMARY AIR INLET DUCT SHALL BE SAME SIZE AS INLET OF AVC BOX IF 5' OR LESS IN LENGTH. IF LONGER THAN 5' USE DUCTWORK 4" LARGER THAN INLET OF BOX TO WITHIN 3' OF BOX, THEN REDUCE TO SAME SIZE AS INLET.
2. PROVIDE A MINIMUM OF THREE EQUIVALENT DUCT DIAMETERS OF STRAIGHT RIGID DUCT (SAME SIZE AS BOX INLET) AT THE INLET OF EACH AVC BOX.
3. LOCATE VALVES, STRAINERS AND OTHER APPURTENANCES SO ACCESSIBLE FOR WORKING CLEARANCE. INSTALL CONTROL VALVE ACTUATOR SO ACCESSIBLE. DO NOT INSTALL AGAINST CEILING.
4. LOCATE TERMINAL UNIT SO THAT WORKING CLEARANCE IS NOT OBSTRUCTED BY LIGHTS, STRUCTURE OR OTHER UTILITIES. IF TERMINAL UNIT IS LOCATED ABOVE INACCESSIBLE CEILING PROVIDE MINIMUM 18"x18" CEILING ACCESS PANEL WITHIN WORKING CLEARANCE FOR TERMINAL UNIT.
5. PROVIDE MINIMUM 6'-0" OF DUCT BETWEEN TERMINAL UNIT AND FIRST BRANCH TAKE-OFF.

A SUPPLY AIR TERMINAL NO HEAT



NOTES:

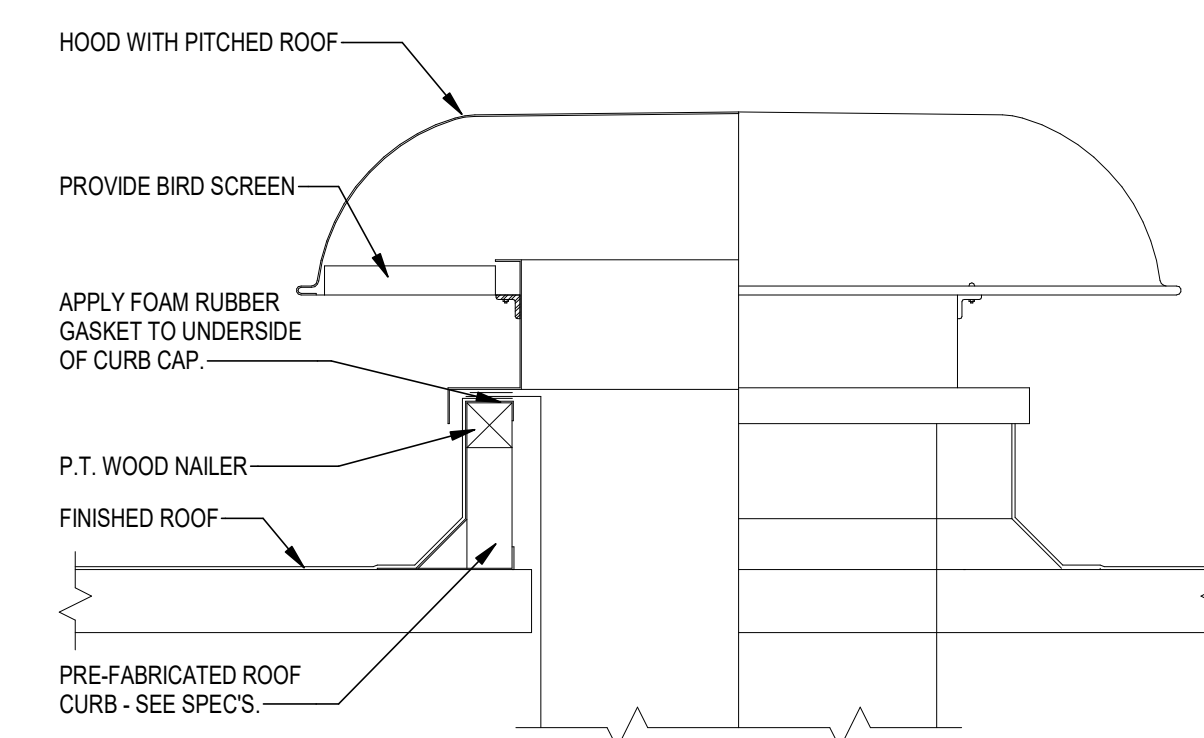
1. CLEARANCE REQUIREMENTS FOR FIRE DAMPER SLEEVES WITHIN OPENING IS BASED ON 1/8" PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTERED. FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGER WHOLE FOOT. EXAMPLE: A 30" x 24" FIRE DAMPER SLEEVE IS INSTALLED IN WALL/FLOOR OPENING. THE OPENING SHALL BE 30 3/8" WIDE (1/8"x 3") BY 24 1/4" HIGH (1/8" x 2).

THE SLEEVE IS RETAINED IN THE WALL/FLOOR BY THE USE OF STEEL RETAINING ANGLES A. THESE MUST OVERLAP THE EDGE OF THE FRAMING BY A MINIMUM OF ONE (1) INCH OVER AND BEYOND ALL MATERIAL IN THE OPENING. THIS MEANS THAT THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1 3/8". (GOOD PRACTICE CALLS FOR AN ADDITIONAL SAFETY FACTOR BY MAKING THE ANGLE IN THIS CASE 1 1/2" WIDE.

THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND THE FIRE RESISTIVE MATERIALS PROVIDED WERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL. SO THAT A CONTINUOUS RATING EXISTS AT THE WALL/FLOOR PENETRATION. THE CONTRACTOR ERECTING THE WALL/FLOOR IS RESPONSIBLE FOR PROVIDING THE FIRE RESISTIVE MATERIAL AND CORRECT SIZE OPENINGS TO ACHIEVE THE REQUIRED CLEARANCE.

2. THE FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.

B FIRE DAMPER INSTALLATION



NOTES:

1. SECURE HOOD TO ROOF CURB WITH SHEET METAL SCREWS @ 12" O.C. ALL AROUND.
2. SECURE CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION.
3. SEE DETAIL DMS.3 FOR ROOF CURB TIE-DOWN.

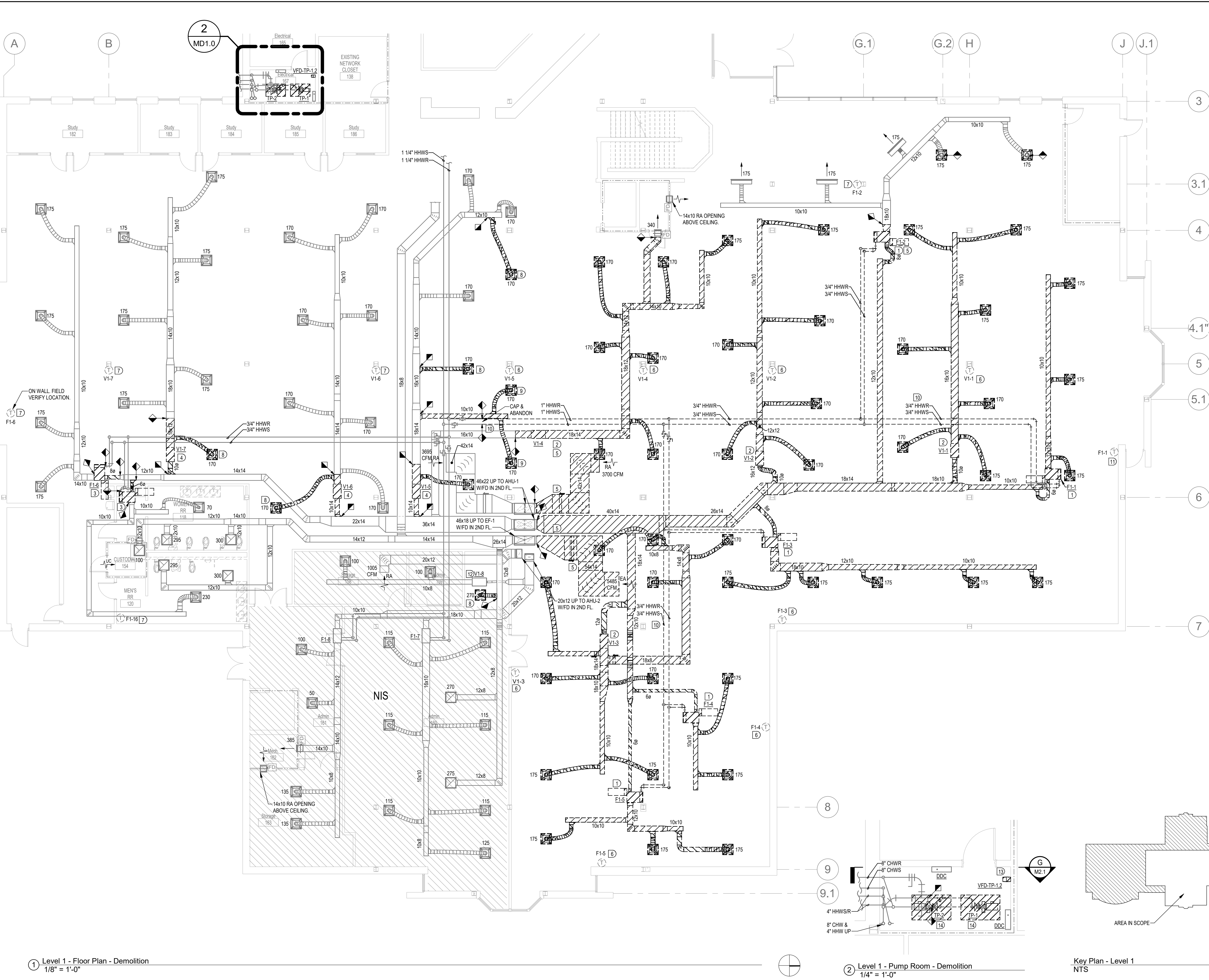
C GRAVITY ROOF VENTILATOR

HZE ENGINEERING
114 EAST 5th AVENUE TALLAHASSEE, FL 32303 PHONE: 850.224.7027
www.HZEEngineering.com

HZE PROJECT No. 24-073

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Florida Registry #2485
Mark P. Poindexter, P.E. #90615



- ### DEMOLITION KEYNOTES
- 1 DEMOLISH FAN POWERED AIR TERMINAL UNIT AND ASSOCIATED CONTROLS, DUCTWORK, PIPING, HANGERS, SUPPORTS AND DIFFUSERS TO LIMITS INDICATED. SEE ELECTRICAL FOR POWER REQUIREMENTS.
 - 2 DEMOLISH AIR TERMINAL UNIT AND ASSOCIATED CONTROLS, DUCTWORK, HANGERS, SUPPORTS AND DIFFUSERS TO LIMITS INDICATED.
 - 3 DEMOLISH FAN POWERED AIR TERMINAL UNIT AND ASSOCIATED CONTROLS AND DUCTWORK TO LIMITS INDICATED. DEMOLISH ENTIRE PIPING COIL PACKAGE. NEW FAN POWERED AIR TERMINAL TO CONNECT TO EXISTING DUCTWORK WITH NEW PIPING COIL PACKAGE AS INDICATED ON RENOVATION PLANS. CONNECTED DUCTWORK AND DIFFUSERS TO REMAIN UNLESS NOTED OTHERWISE. SEE ELECTRICAL FOR POWER REQUIREMENTS.
 - 4 DEMOLISH AIR TERMINAL UNIT AND ASSOCIATED CONTROLS AND DUCTWORK TO LIMITS INDICATED. NEW AIR TERMINAL TO CONNECT TO EXISTING DUCTWORK AS INDICATED ON RENOVATION PLANS. CONNECTED DUCTWORK AND DIFFUSERS TO REMAIN UNLESS NOTED OTHERWISE.
 - 5 DEMOLISH DUCTWORK TO LIMIT INDICATED. EXTEND AND RECONNECT DUCTWORK AS INDICATED ON RENOVATION PLANS.
 - 6 DEMOLISH TEMPERATURE SENSOR. PATCH SURFACE PER ARCHITECT PLANS.
 - 7 DEMOLISH TEMPERATURE SENSOR AND CONTROL WIRE. NEW SENSOR TO BE PROVIDED IN SAME LOCATION BY CONTROLS CONTRACTOR.
 - 8 DEMOLISH DIFFUSER AND DUCTWORK TO LIMIT INDICATED. EXTEND AND RECONNECT DUCTWORK AS INDICATED ON RENOVATION PLANS.
 - 9 DEMOLISH DIFFUSER AND DUCTWORK TO LIMIT INDICATED. PATCH DUCTWORK AIR TIGHT AND INSULATE.
 - 10 DEMOLISH HEATING HOT WATER PIPING TO LIMITS INDICATED.
 - 11 DEMOLISH TEMPERATURE SENSOR AND CONTROL WIRE. NEW SENSOR TO BE PROVIDED BY CONTROLS CONTRACTOR IN LOCATION INDICATED ON RENOVATION PLAN.
 - 12 AIR TERMINAL UNIT TO REMAIN.
 - 13 DEMOLISH VARIABLE FREQUENCY DRIVE. NEW VARIABLE FREQUENCY DRIVE TO BE PROVIDED AS INDICATED ON RENOVATION PLANS.
 - 14 DEMOLISH PUMP AND ASSOCIATED INERTIA BASE, PIPING AND PIPE ACCESSORIES TO LIMITS INDICATED. NEW PUMP TO BE PROVIDED AS INDICATED ON RENOVATION PLANS. SEE ELECTRICAL FOR POWER REQUIREMENTS.



SEAL:

PROJECT TITLE:
**Makerspace Improvements
 TSC Library - 1st Floor**
 444 Appleyard Drive,
 Tallahassee, FL 32304

JOB NO.: 24-103
 DESIGNED: FPH
 DRAWN: FPH
 CHECKED: MPP

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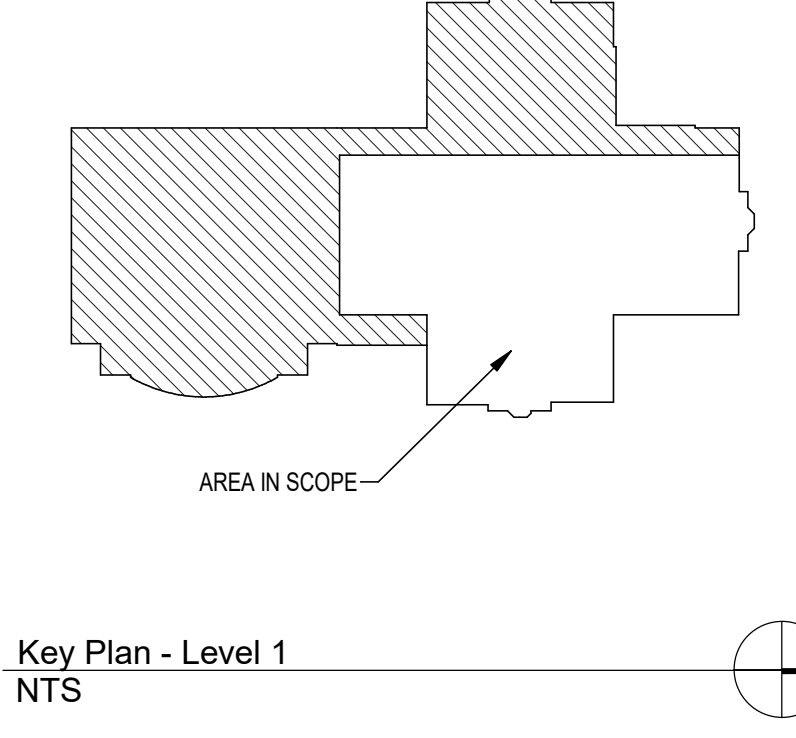
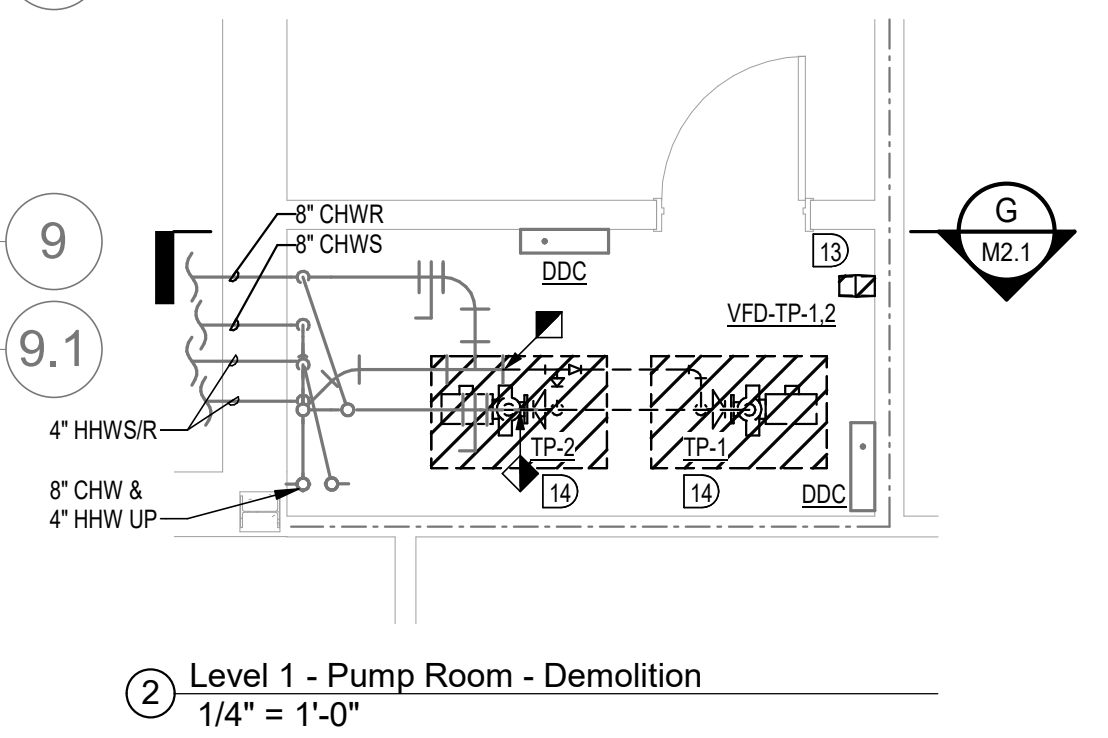
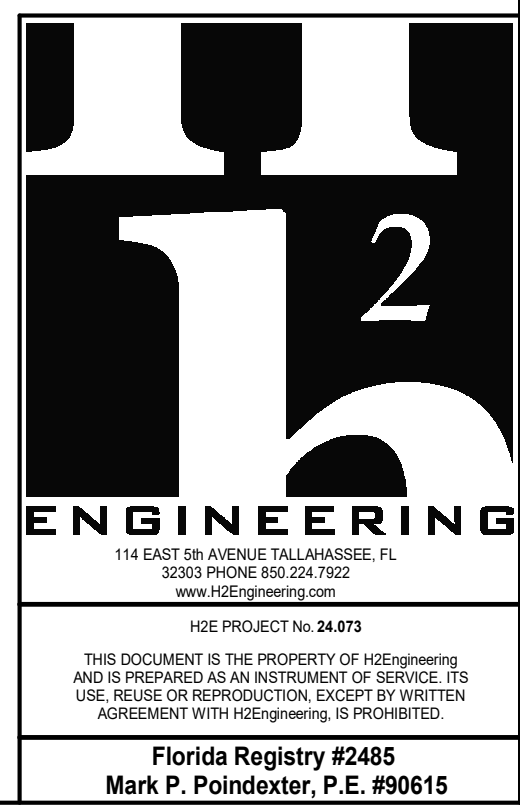
NO.	DESCRIPTION

DRAWING PHASE:
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DRAWING TITLE:
 Level 1 Floor Plan - Demolition

SHEET NO.:
MD1.0

DATE:
 February 7, 2025



Autodesk Docs: \\24-073 TSC Library Makerspace\24-073_MEP_Central_TSC Library Makerspace_R23.rvt 2/6/2025 5:45:34 PM

1 Level 1 - Floor Plan - Demolition
 1/8" = 1'-0"

2 Level 1 - Pump Room - Demolition
 1/4" = 1'-0"

Key Plan - Level 1
 NTS



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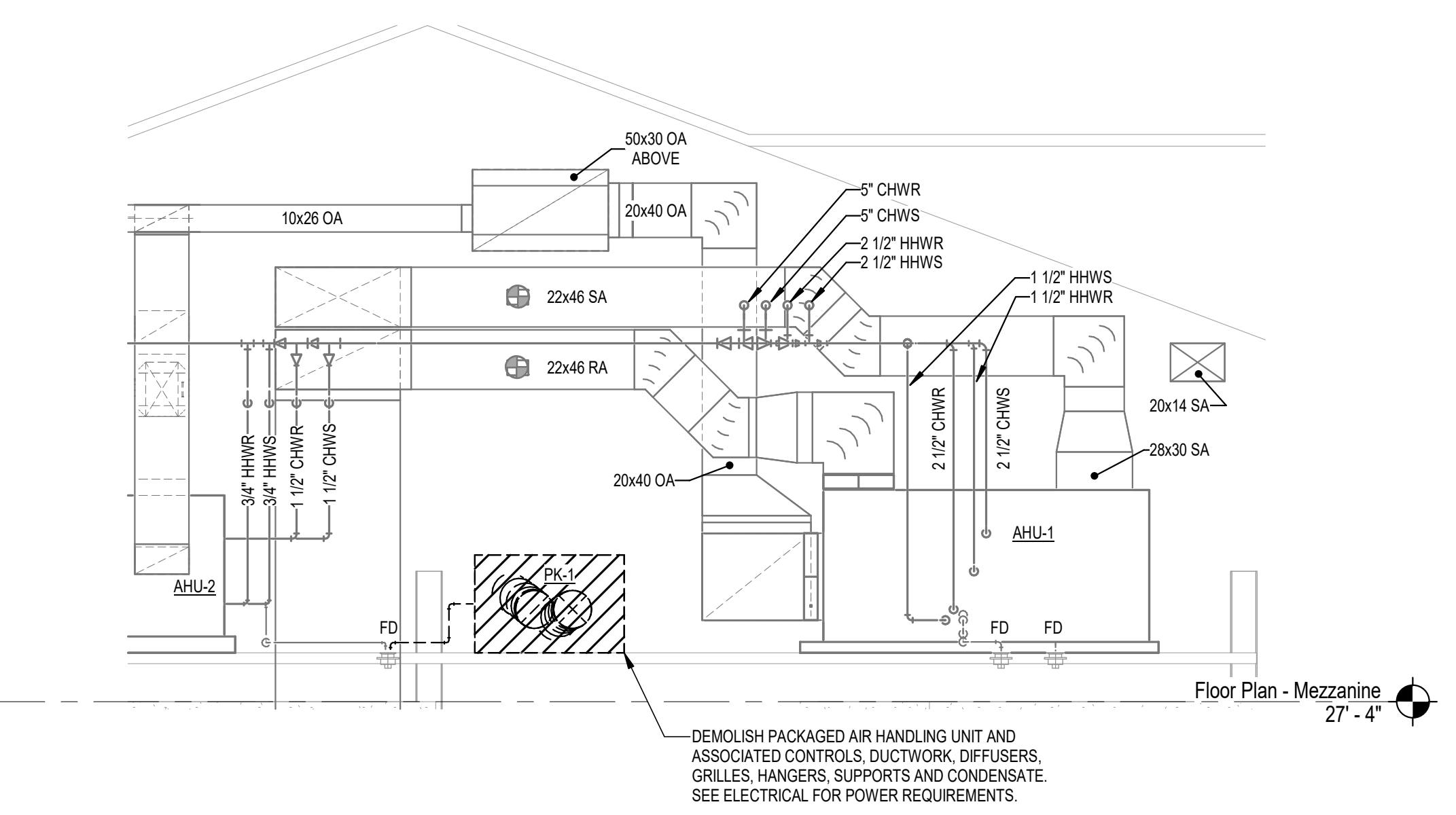
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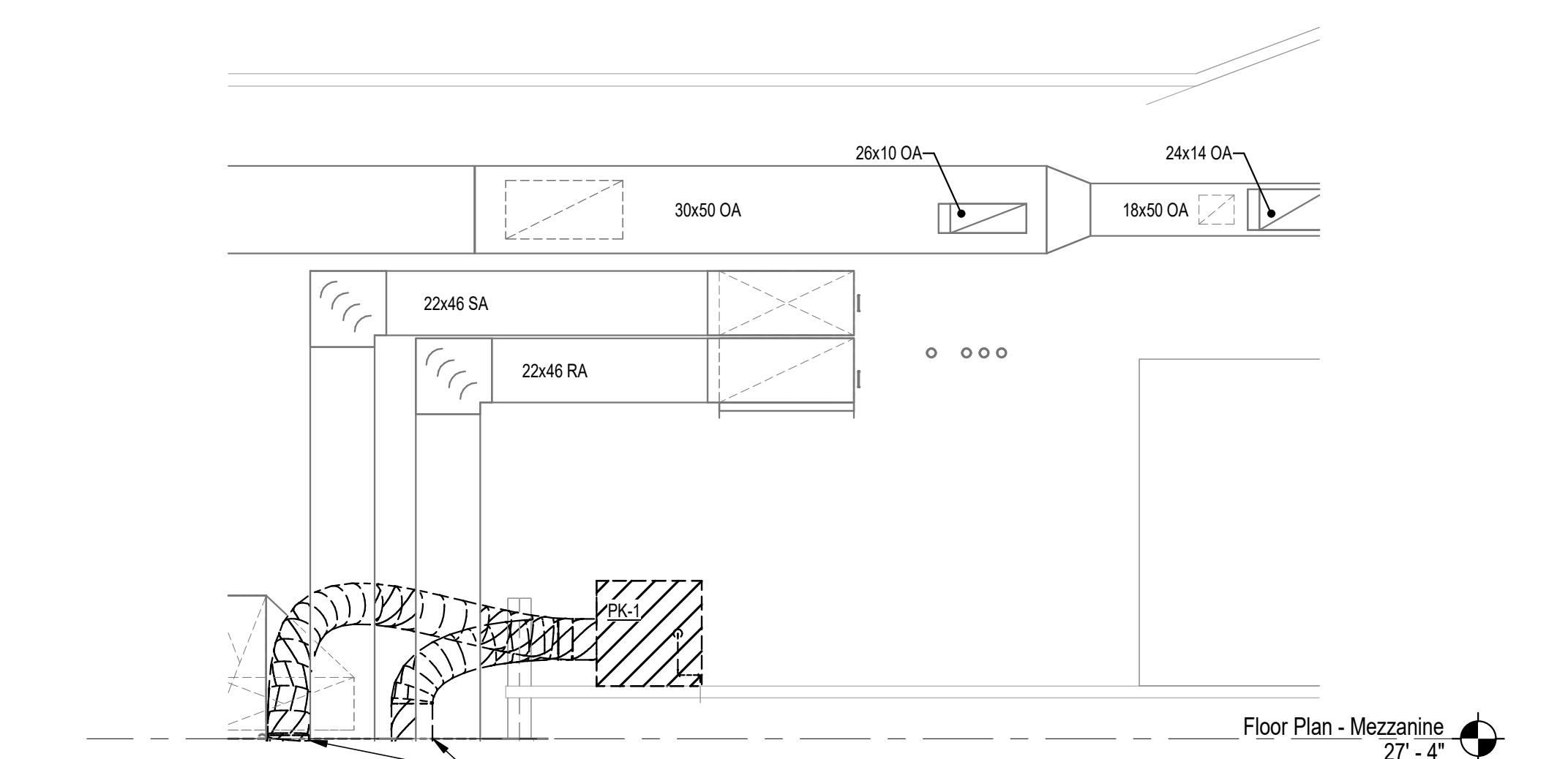
DRAWING TITLE:
 Mezzanine Floor Plan - Demolition

SHEET NO.:
MD1.1

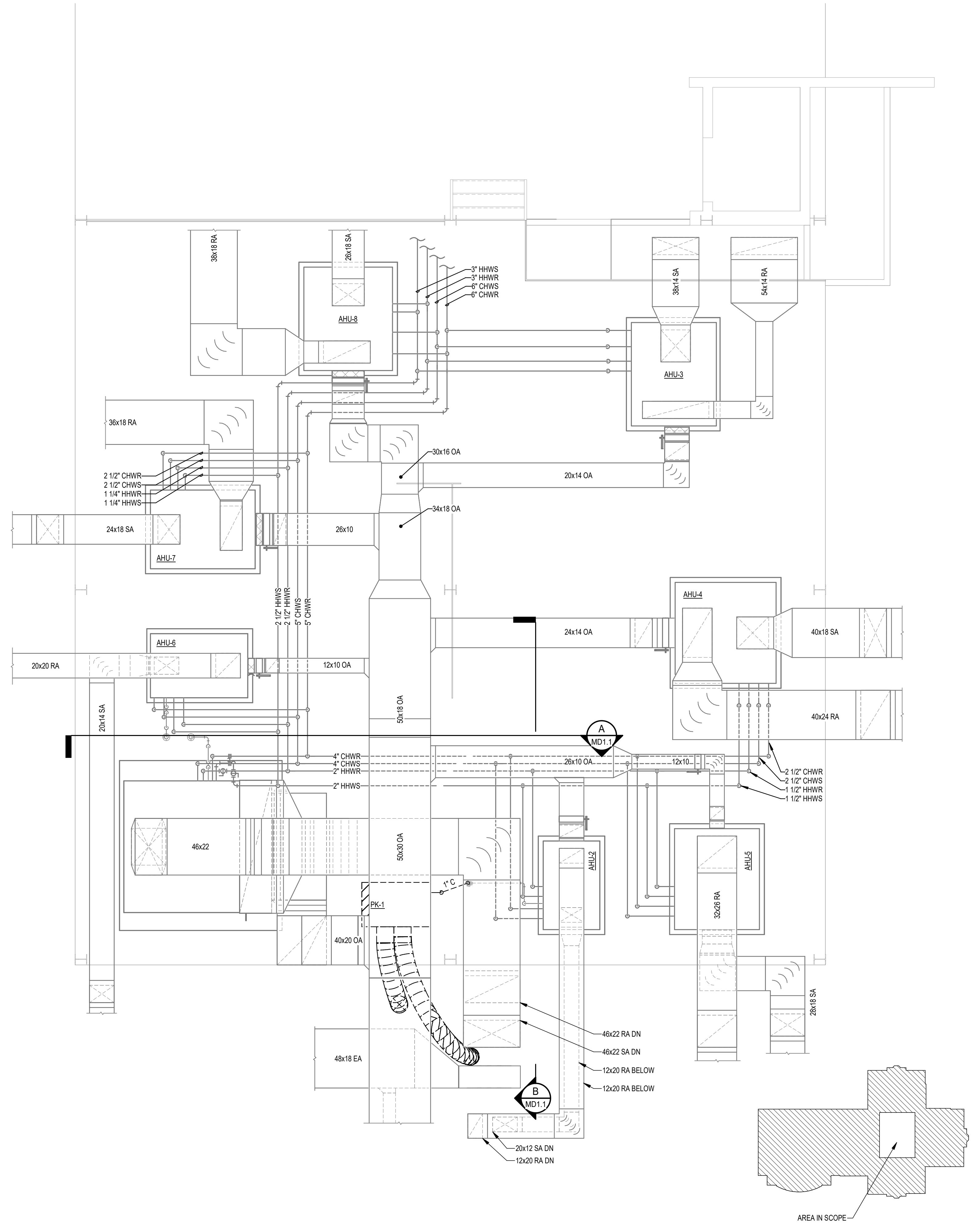
DATE:
 February 7, 2025



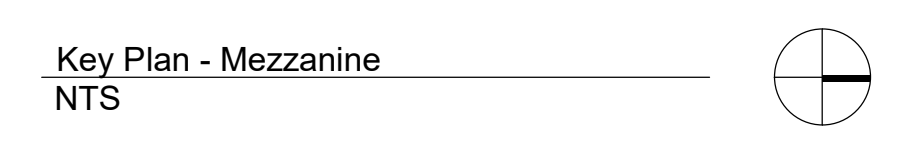
A Section - A
1/4" = 1'-0"



B Section - B
1/4" = 1'-0"



1 Mezzanine - Floor Plan
1/4" = 1'-0"



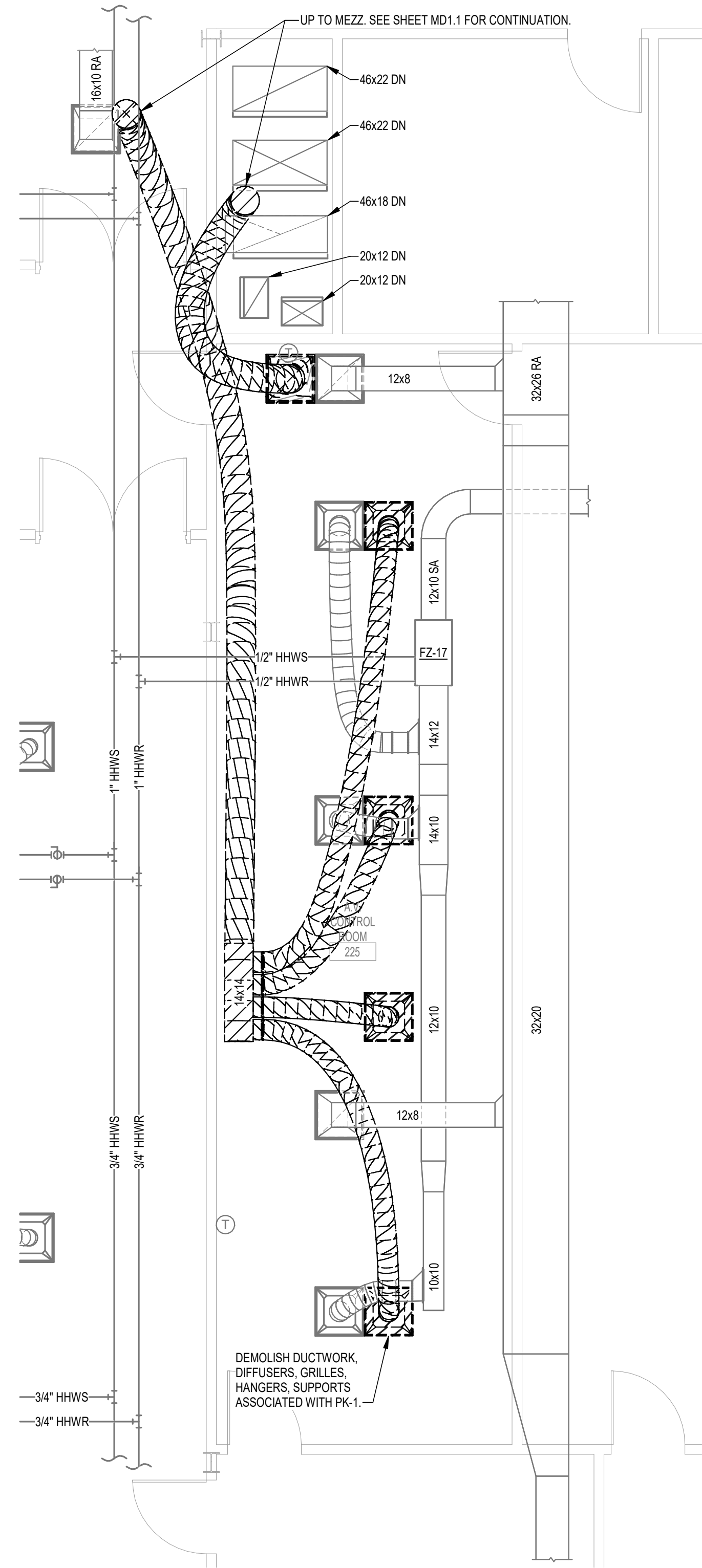
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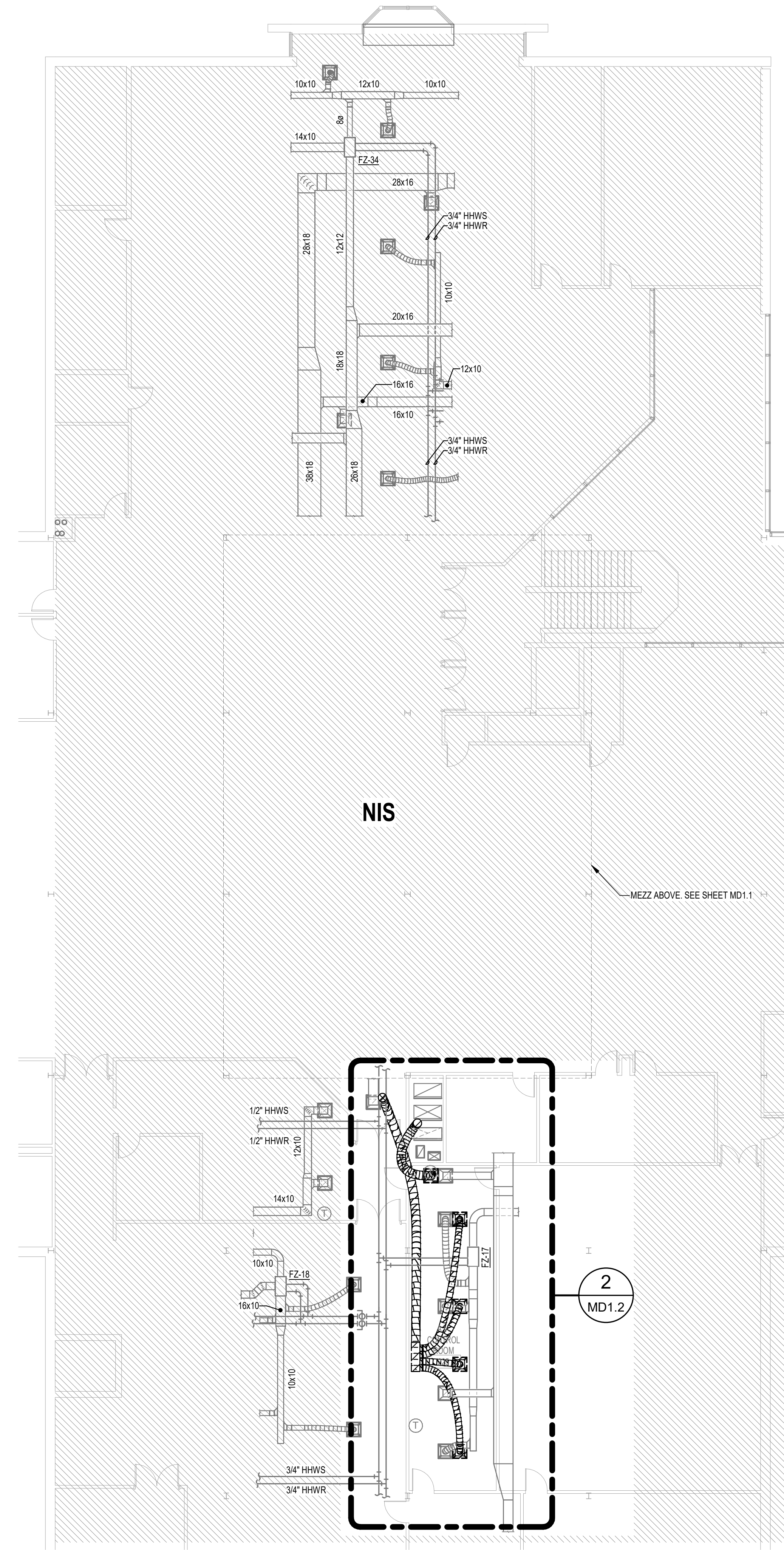
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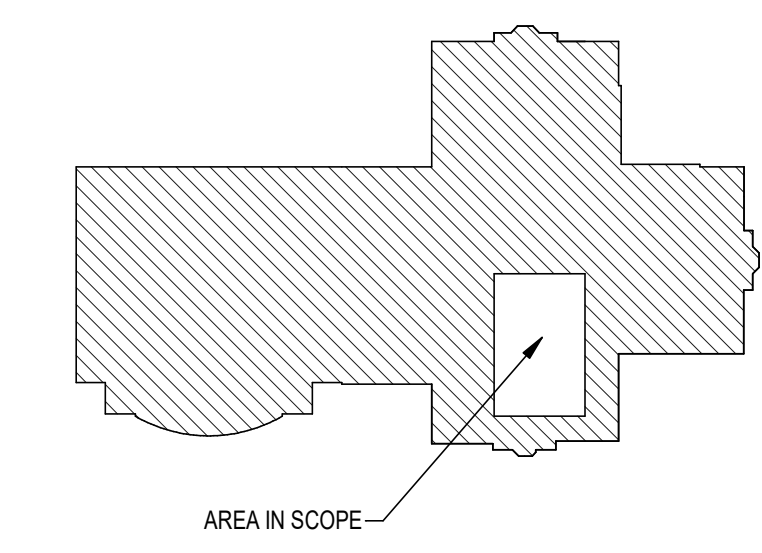
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② Level 2 - Enlarged Floor Plan - Demolition
1/4" = 1'-0"



① Level 2 - Floor Plan - Demolition
1" = 10'-0"



Key Plan - Level 2
NTS

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TSC Library - 1st Floor
444 Appleyard Drive,
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DESIGNED: **FPH**
DRAWN: **FPH**
CHECKED: **MPP**

REVISIONS:

NO.	DESCRIPTION

DRAWING PHASE:
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DRAWING TITLE:
Level 2 Floor Plan - Demolition

SHEET NO.:
MD1.2

DATE:
February 7, 2025