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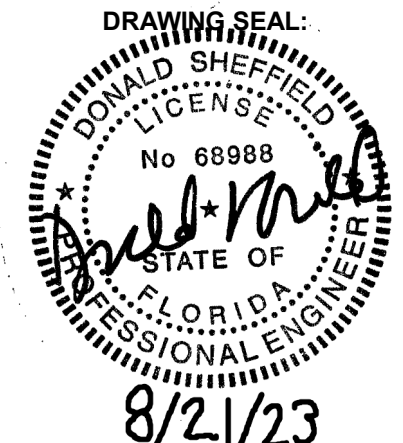
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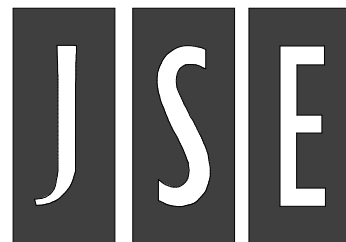
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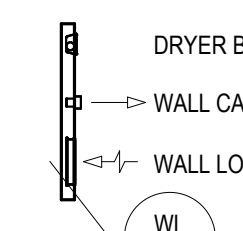
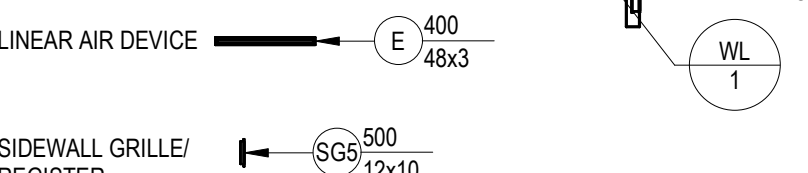
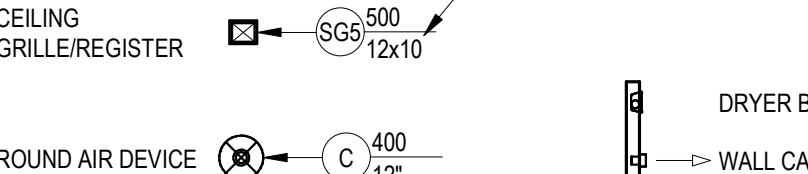
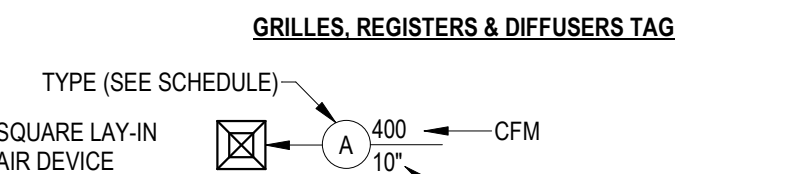
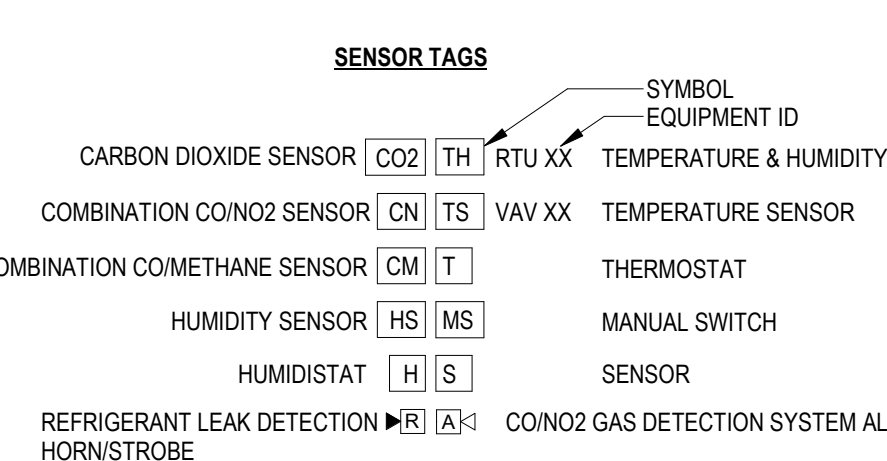
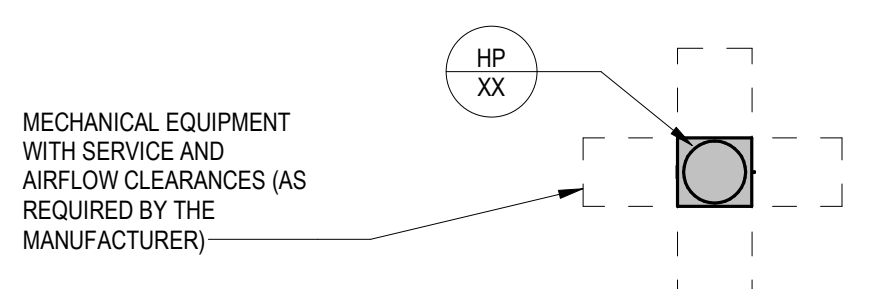
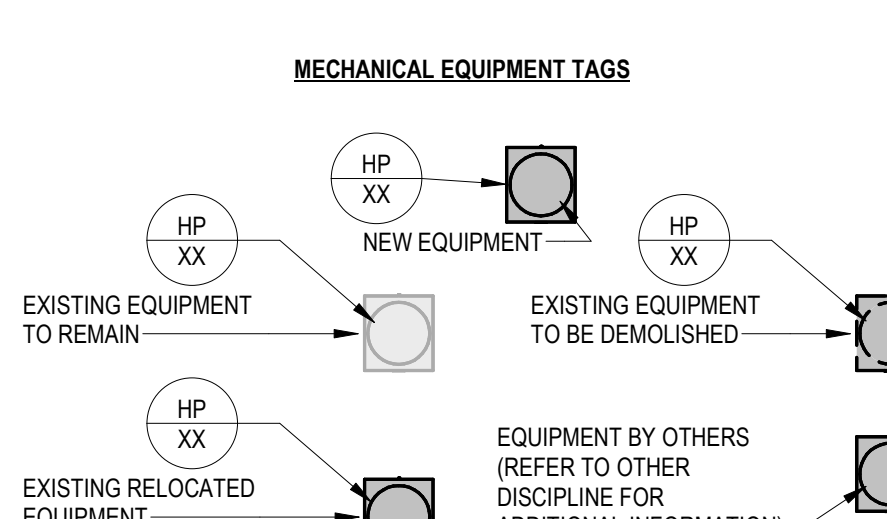
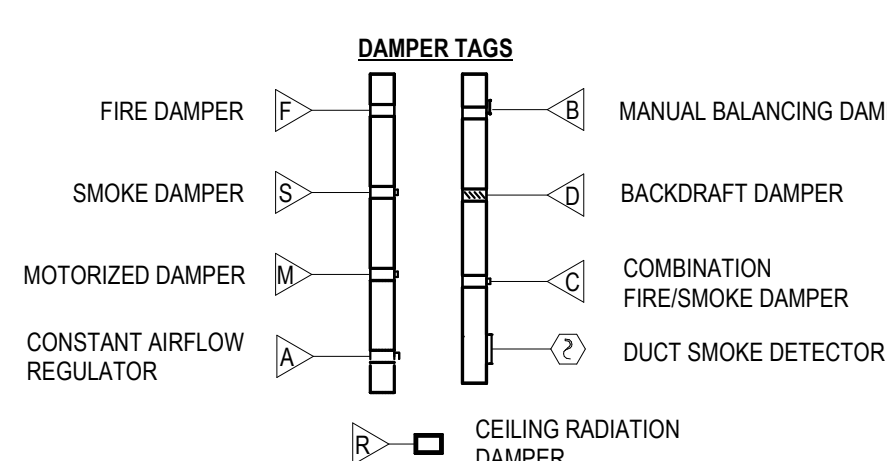
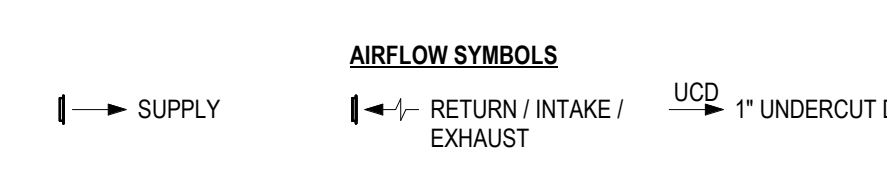
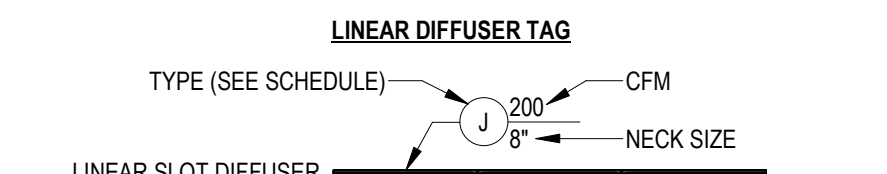
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No.	Description	Date

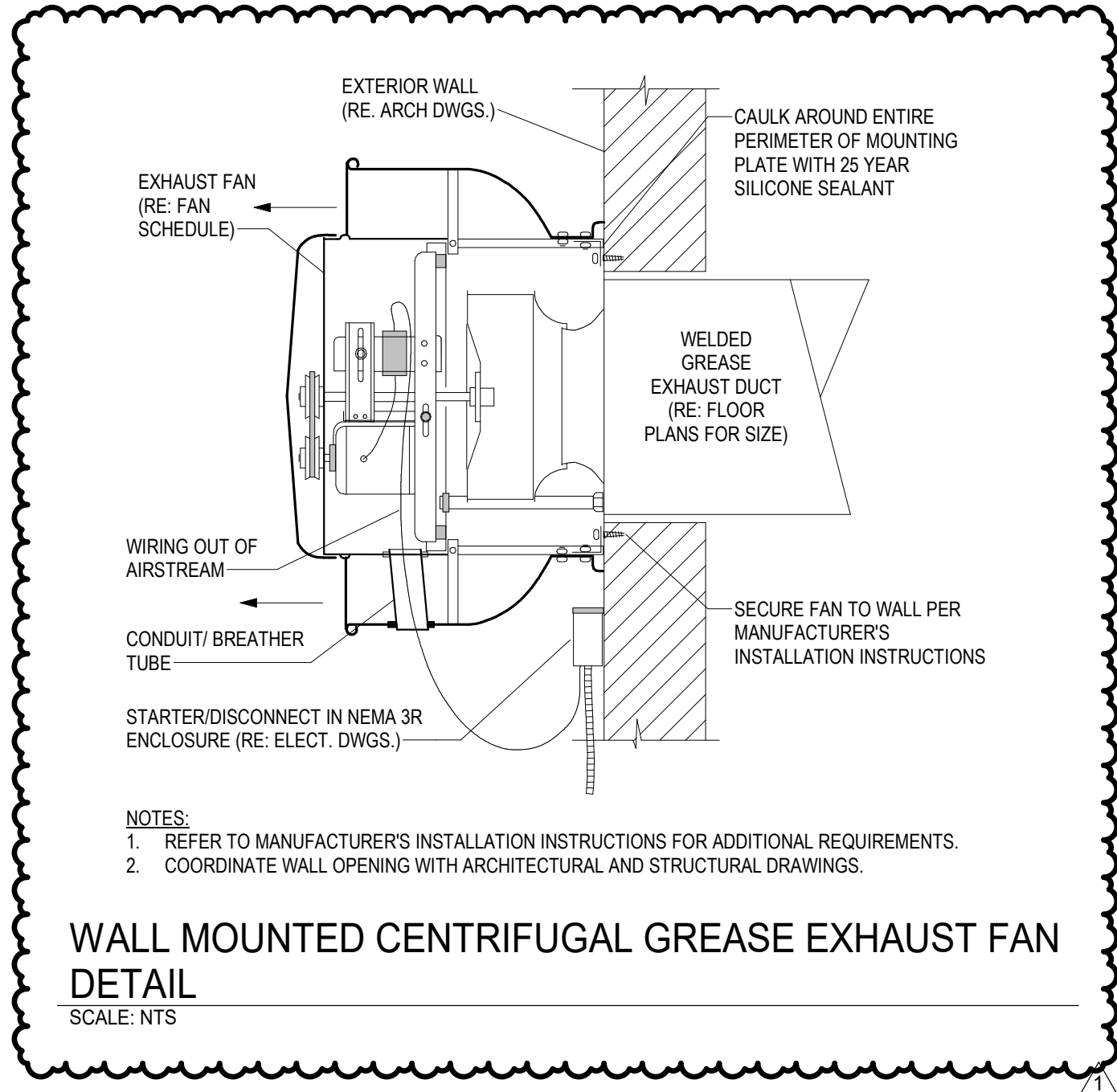
SYMBOLS AND
ABBREVIATIONS
LEGEND - HVAC

PROJECT NUMBER	22038
DATED	8/21/2023

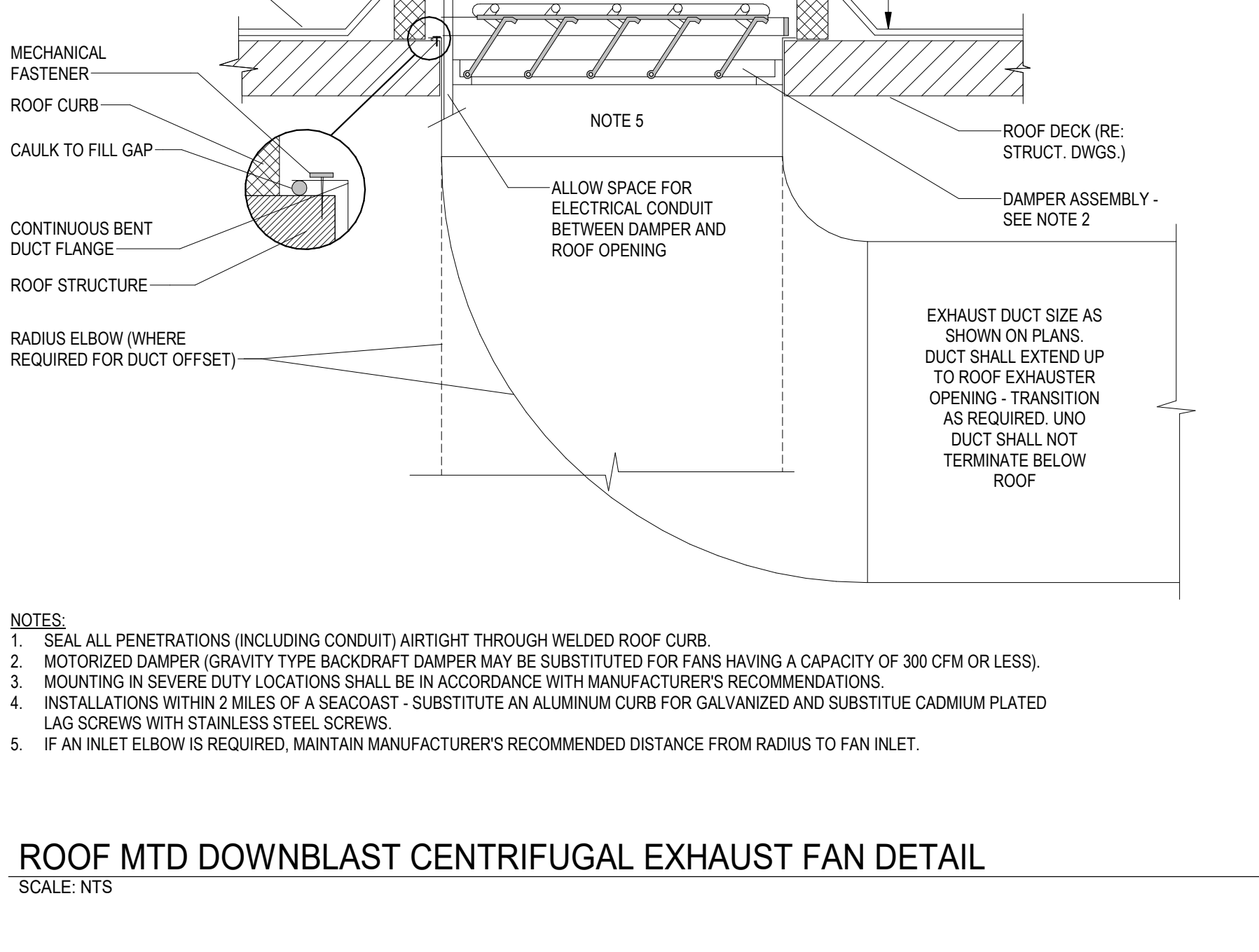


ABBREVIATIONS		PIPING SYMBOLS		MECHANICAL SYMBOLS	
Ø	ROUND	CD	CONDENSATE DRAINAGE	△	REVISION NUMBER - SHOWN ON PLANS
(F)	FUTURE	REF-L	REFRIGERANT LIQUID	●	POINT WHERE NEW CONNECTS TO EXISTING
A/C	ABOVE CEILING	REF-S	REFRIGERANT SUCTION	●	POINT WHERE DEMO CONNECTS TO EXISTING
AAV	AUTOMATIC AIR VENT	REF-HG	REFRIGERANT HOT GAS	○	NUMBER OF DETAIL ON SHEET
ABV	ABOVE	FOV	FUEL OIL VENT	○	NUMBER OF SHEET WHERE DETAIL APPEARS
AC	AIR CONDITIONING	FOS	FUEL OIL SUPPLY	①	KEYNOTE
ACC	AIR COOLED CONDENSER	FOS	FUEL OIL RETURN	⋈	CONTINUATION SYMBOL
ACH	AIR COOLED CHILLER	2"	PIPE SIZE TAG (DIAMETER)	Room 15	ROOM NAME AND NUMBER
ACF	AIR CURTAIN FAN	1/8" / 12" SLOPE	PIPE SLOPE TAG	▨	ITEM TO BE DEMOLISHED
AD	ACCESS DOOR	(E)	EXISTING PIPE TAG	▨	AREA NOT IN CONTRACT
ADD	ADDENDUM	---	PIPING BEING DEMOLISHED	▨	PLENUM RATED SOFFIT
AFF	ABOVE FINISHED FLOOR	CHWR	CHILLED WATER RETURN	▨	CHILLED WATER SUPPLY
AFG	ABOVE FINISHED GRADE	CHWS	CHILLED WATER SUPPLY	---	NON-PLENUM RATED SOFFIT
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	CWR	CONDENSER WATER RETURN	16x8	NEW SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
AH	AIR HANDLER	CWS	CONDENSER WATER SUPPLY	16S	NEW OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
AHU	AUTHORITY HAVING JURISDICTION	GW	GEO THERMAL WATER SUPPLY	160	NEW ROUND DUCT SIZE TAG (DIAMETER)
AHU	AIR HANDLING UNIT	GW	GEO THERMAL WATER RETURN	(E)	EXISTING DUCT TAG
ALT	ALTERNATE	HWR	HEATING WATER RETURN	16x8 24x8	DUCT TRANSITION
ALUM	ALUMINUM	HWS	HEATING WATER SUPPLY	---	FLEX DUCT
AP	ACCESS PANEL	LPS	LOW PRESSURE STEAM (0-15 PSIG)	---	MECHANICAL EQUIPMENT TAGS
ARCH	ARCHITECT/ARCHITECTURAL	MPS	MEDIUM PRESSURE STEAM (16 TO 100 PSIG)	HP XX	NEW EQUIPMENT
AS	AIR SEPARATOR	OPS	HIGH PRESSURE STEAM (ABOVE 100 PSIG)	HP XX	EXISTING EQUIPMENT TO REMAIN
B	BOILER	OW	OPENING	HP XX	EXISTING EQUIPMENT TO BE DEMOLISHED
BAS	BUILDING AUTOMATION SYSTEM	OD	OUTSIDE DIAMETER	HP XX	EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION)
BDD	BACKDRAFT DAMPER	OP	OPEN ENDED DUCT	---	MECHANICAL EQUIPMENT WITH SERVICE AND AIRFLOW CLEARANCES (AS REQUIRED BY THE MANUFACTURER)
BF	BOOSTER FAN	ORD	OVERFLOW ROOF DRAIN	HP XX	SENSOR TAGS
BFF	BELOW FINISHED FLOOR	POHP	PRIMARY CHILLED WATER PUMP	CO2	CARBON DIOXIDE SENSOR
BLW	BELOW	PD	PRESSURE DROP	CN TS	COMBINATION COIN2 SENSOR
BLW	BOTTOM OF DUCT	POU	POOL DEHUMIDIFICATION UNIT	CM T	COMBINATION COMETHANE SENSOR
BPD	BYPASS DAMPER	PER	POOL EQUIPMENT ROOM	HS MS	HUMIDITY SENSOR
BTU	BRITISH THERMAL UNITS	PLBG	PLUMBING	H S	HUMIDISTAT
BTU	BRITISH THERMAL UNITS PER HOUR	POC	POINT OF CONNECTION	H S	SENSOR
C	AIR COMPRESSOR	PRSS	PRESSURE	RTU XX	TEMPERATURE & HUMIDITY SENSOR
CA	COMBUSTION AIR	PRV	PRESSURE REDUCING VALVE	VAV XX	TEMPERATURE SENSOR
CD	CONDENSATE DRAIN	PSI	POUNDS PER SQUARE INCH	TH	THERMOSTAT
CEH	CEILING HEATER	PSIG	POUNDS PER SQUARE INCH GAUGE	MS	MANUAL SWITCH
CF	CIRCULATION FAN	PTAC	PACKAGED TERMINAL AIR CONDITIONER	W	WALL CAP
CFM	CUBIC FEET PER MINUTE	PTHP	PACKAGED TERMINAL HEAT PUMP	W	WALL LOUVER
CH	WATER-COOLED CHILLER	R	RISE	W	WALL LOUVER
CH	CHILLER	RA	RETURN AIR	W	WALL LOUVER
CHP	CHILLED WATER PUMP	RAG	RETURN AIR GRILLE	W	WALL LOUVER
CLG	COOLING	RCP	RADIANT CEILING PANEL	W	WALL LOUVER
CO	CLEAN OUT	REC	RECESSED	W	WALL LOUVER
COP	COEFFICIENT OF PERFORMANCE	RED	REDUCER	W	WALL LOUVER
CRD	CEILING RADIATION DAMPER	REG	REGISTER (AIR DEVICE WITH FACE)	W	WALL LOUVER
CRP	CONDENSATE RECEIVER & PUMP	RLA	RELIEF AIR	W	WALL LOUVER
CT	COOLING TOWER	RLH	RELIEF HOOD	W	WALL LOUVER
CU	AIR COOLED CONDENSING UNIT	RH	RELATIVE HUMIDITY	W	WALL LOUVER
CUH	CABINET UNIT HEATER	RHG	REFRIGERANT HOT GAS	W	WALL LOUVER
CW	COLD WATER	RL	REFRIGERANT LIQUID	W	WALL LOUVER
CWP	CONDENSER WATER PUMP	RLA	RELIEF AIR	W	WALL LOUVER
D	DEGREE	RM	ROOM	W	WALL LOUVER
DAD	DRY BULB	RTM	REVOLUTIONS PER MINUTE	W	WALL LOUVER
DCU	DUCTLESS CONDENSING UNIT	RS	REFRIGERANT SUCTION	W	WALL LOUVER
DE	DISHWASHER EXHAUST	RU	ROOF TOP UNIT	W	WALL LOUVER
DPC	DUCTLESS COOLING ONLY FAN COIL	S	SUPPLY AIR	W	WALL LOUVER
DFH	DUCTLESS HEATPUMP FAN COIL	SA	SECONDARY CHILLED WATER PUMP	W	WALL LOUVER
DHP	DUCTLESS HEATPUMP	SCU	WATER-COOLED SELF-CONTAINED	W	WALL LOUVER
DA	DIAMETER	SA	AIR CONDITIONING UNIT	W	WALL LOUVER
DN	DOWN	SCHP	SMOKE DAMPER	W	WALL LOUVER
DP	DEW POINT	SD	SEASONAL ENERGY EFFICIENCY RATIO	W	WALL LOUVER
DS	DUCT SILENCER	SEF	SEASONAL ENERGY EFFICIENCY RATIO	W	WALL LOUVER
EA	EXHAUST AIR	SENS	SENSIBLE	W	WALL LOUVER
EAT	ENTERING AIR TEMPERATURE	SF	SUPPLY FAN	W	WALL LOUVER
EBH	ELECTRIC BASEBOARD HEATER	SG	SQUARE FOOT	W	WALL LOUVER
EF	EXHAUST FAN	SM	SURFACE MOUNT	W	WALL LOUVER
ELEC	ELECTRICAL	SPF	STAIR PRESSURIZATION FAN	W	WALL LOUVER
EPF	ELEVATOR PRESSURIZATION FAN	SR	SUPPLY REGISTER	W	WALL LOUVER
EQUIP	EQUIPMENT	SS	STAINLESS STEEL (TYPE 316 UNO)	W	WALL LOUVER
ER	EXHAUST REGISTER	STM	STEAM	W	WALL LOUVER
ERU	ENERGY RECOVERY UNIT	T	THERMOSTAT	W	WALL LOUVER
ERV	ENERGY RECOVERY VENTILATOR	TD	TRANSFER DUCT	W	WALL LOUVER
ESP	EXTERNAL STATIC PRESSURE	TD	TEMPERATURE DROP	W	WALL LOUVER
ET	EXPANSION TANK	TE	TOILET EXHAUST	W	WALL LOUVER
EUH	ELECTRIC UNIT HEATER	TWP	TEMPERED WATER PUMP	W	WALL LOUVER
EWC	ELECTRIC WATER COOLER	TXR	TRANSFER	W	WALL LOUVER
EWH	ELECTRIC WALL HEATER	US	UNDERGROUND	W	WALL LOUVER
EWT	ENTERING WATER TEMPERATURE	UNO	UNLESS NOTED OTHERWISE	W	WALL LOUVER
EX	EXISTING	V	VENT	W	WALL LOUVER
EXIST	EXISTING	VAV	VARIABLE AIR VOLUME	W	WALL LOUVER
F	DEGREES FAHRENHEIT	VENT	VENTILATION	W	WALL LOUVER
F	FURNACE	VFD	VARIABLE FREQUENCY DRIVE	W	WALL LOUVER
FA	FREE AREA	VVIR	VARIABLE REFRIGERANT VOLUME	W	WALL LOUVER
FCU	FAN COIL UNIT	VVIR	VARIABLE REFRIGERANT FLOW	W	WALL LOUVER
FD	FLOOR DRAIN	VVT	VERTICAL PACKAGED TERMINAL AC UNIT	W	WALL LOUVER
FD	FIRE DAMPER	WB	WET BULB	W	WALL LOUVER
FL	FLOOR	WC	WATER COLUMN	W	WALL LOUVER
FO	FUEL OIL	WG	WATER GAUGE	W	WALL LOUVER
FOF	FUEL OIL FILL	WL	WALL LOUVER	W	WALL LOUVER
FOS	FUEL OIL RETURN	WMS	WIRE MESH SCREEN	W	WALL LOUVER
FOR	FUEL OIL SUPPLY	WSP	WATER SOURCE HEAT PUMP	W	WALL LOUVER
FOT	FLAT ON TOP	ZD	ZONE DAMPER	W	WALL LOUVER
FOV	FUEL OIL VENT			W	WALL LOUVER
FPM	FEET PER MINUTE			W	WALL LOUVER
FSCP	FIREFIGHTERS SMOKE CONTROL PANEL			W	WALL LOUVER
FSD	COMBINATION FIRE/SMOKE DAMPER			W	WALL LOUVER
FT	H2O FEET OF WATER			W	WALL LOUVER
FT	FOOTFEET			W	WALL LOUVER
QAL	QUALLON			W	WALL LOUVER
GC	GENERAL CONTRACTOR			W	WALL LOUVER
GE	GREASE EXHAUST			W	WALL LOUVER
GEF	GARAGE EXHAUST FAN			W	WALL LOUVER
GPM	GALLONS PER MINUTE			W	WALL LOUVER
GR	GRILLE (AIR DEVICE WITHOUT A BALANCING DAMPER)			W	WALL LOUVER
GUH	GAS FIRED UNIT HEATER			W	WALL LOUVER
GWP	GLYCOL WATER PUMP			W	WALL LOUVER
H	HUMIDISTAT			W	WALL LOUVER
HEX	HEAT EXCHANGER			W	WALL LOUVER
HP	HEAT PUMP			W	WALL LOUVER
HP	HORSE POWER			W	WALL LOUVER
HSPF	HEATING SEASONAL PERF			W	WALL LOUVER
HTG	HEATING			W	WALL LOUVER
HV	HEATING AND VENTILATING UNIT			W	WALL LOUVER
HVLS	HIGH VOLUME LOW SPEED			W	WALL LOUVER
HW	HOT WATER			W	WALL LOUVER
HWP	HOT WATER PUMP			W	WALL LOUVER
ID	INSIDE DIAMETER			W	WALL LOUVER
IER	INTEGRATED ENERGY EFFICIENCY RATIO			W	WALL LOUVER
DEMOLITION ABBREVIATIONS					
(E)	EXISTING TO REMAIN	(N)	NEW		
(ER)	EXISTING TO REMAIN	(R)	REMOVE		
		(RR)	REMOVE AND REPLACE		

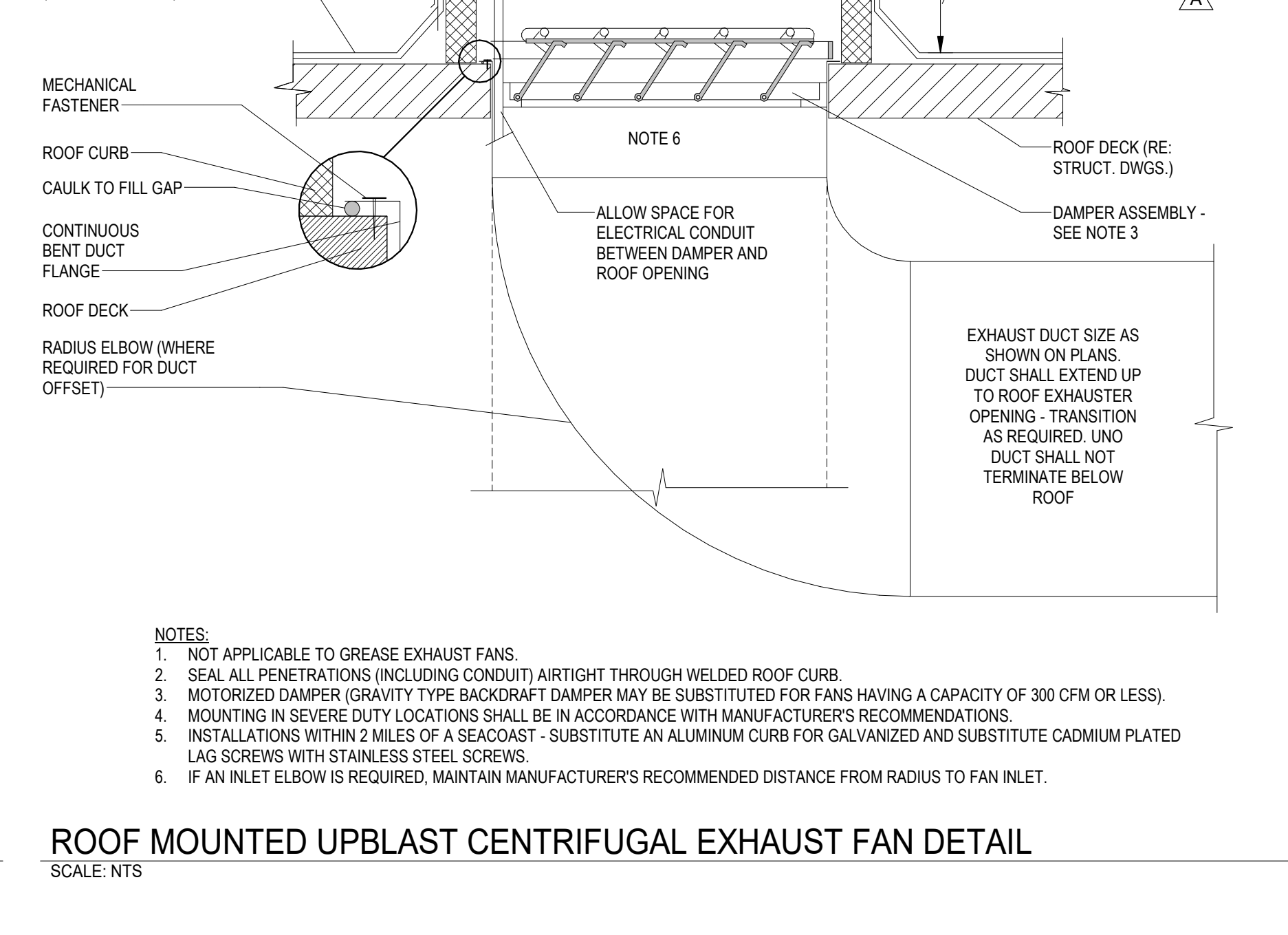




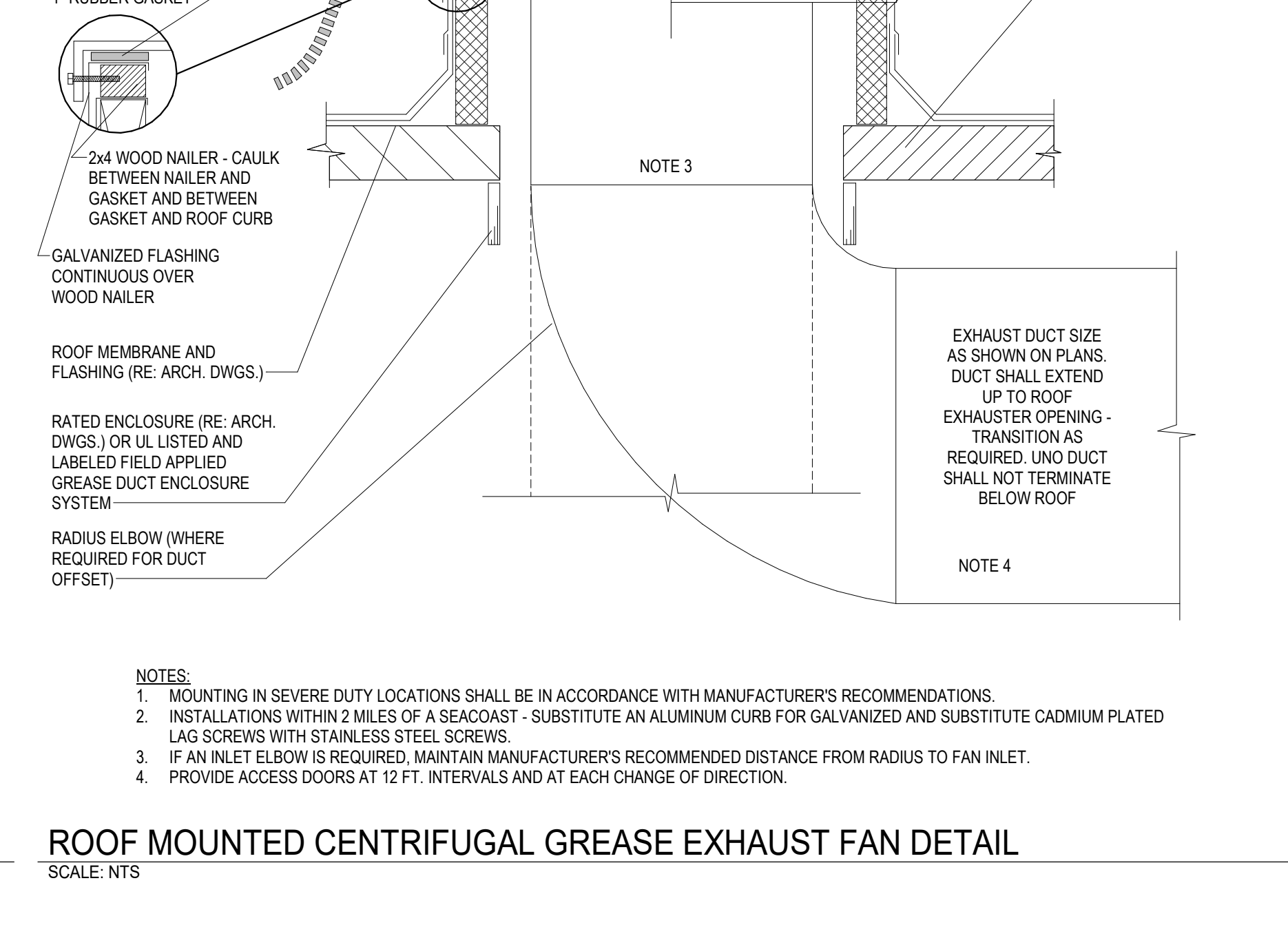
WALL MOUNTED CENTRIFUGAL GREASE EXHAUST FAN DETAIL
SCALE: NTS



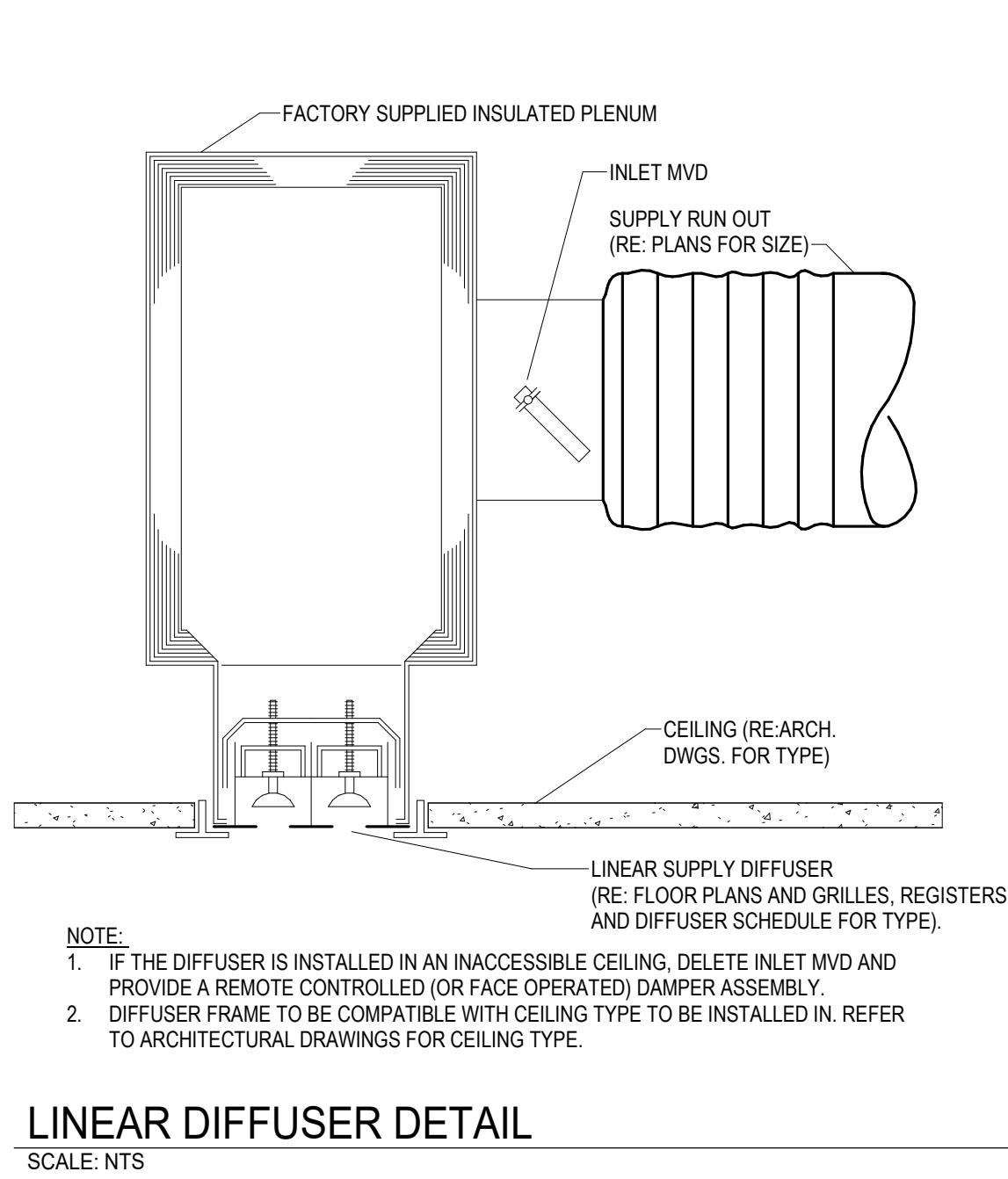
ROOF MTD DOWNBLAST CENTRIFUGAL EXHAUST FAN DETAIL
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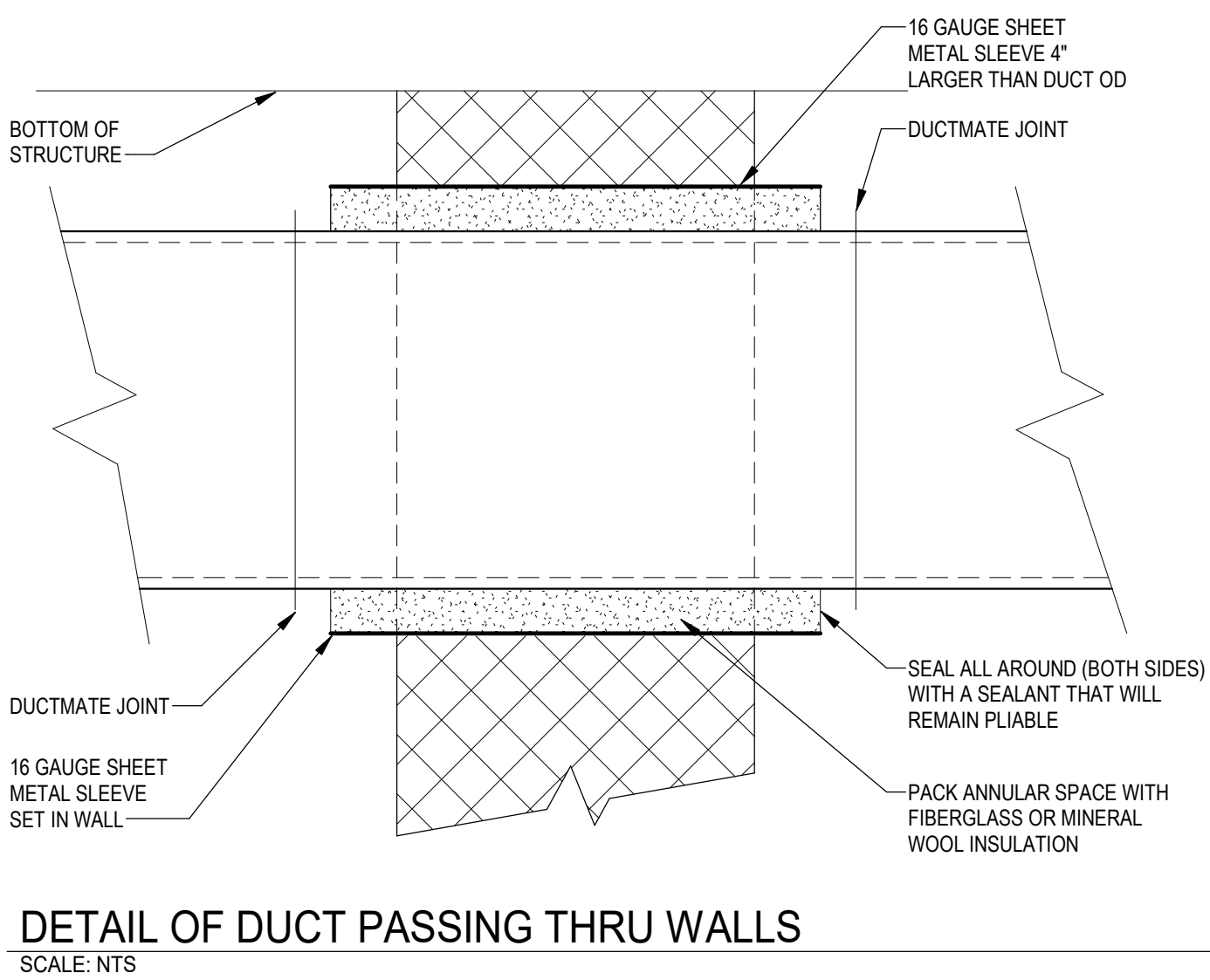
ROOF MOUNTED UPBLAST CENTRIFUGAL EXHAUST FAN DETAIL
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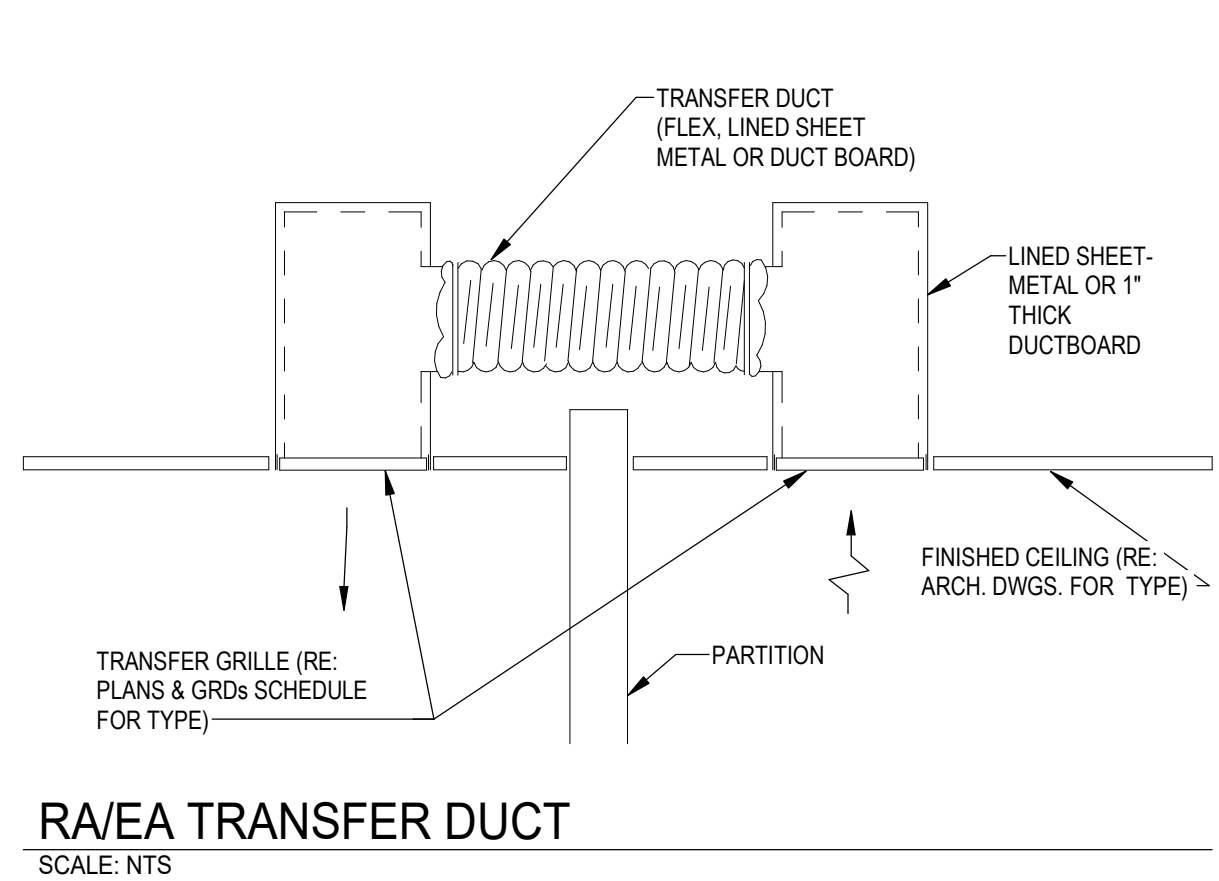
ROOF MOUNTED CENTRIFUGAL GREASE EXHAUST FAN DETAIL
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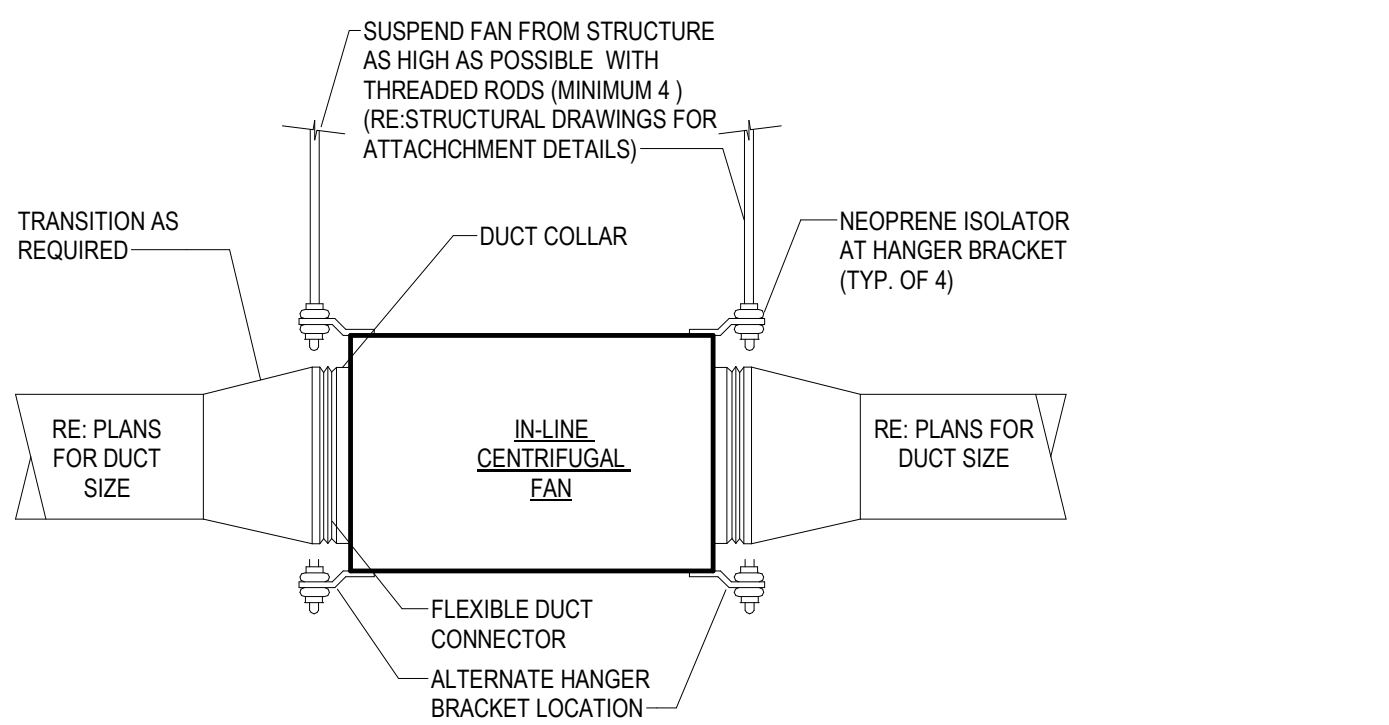
LINEAR DIFFUSER DETAIL
SCALE: NTS



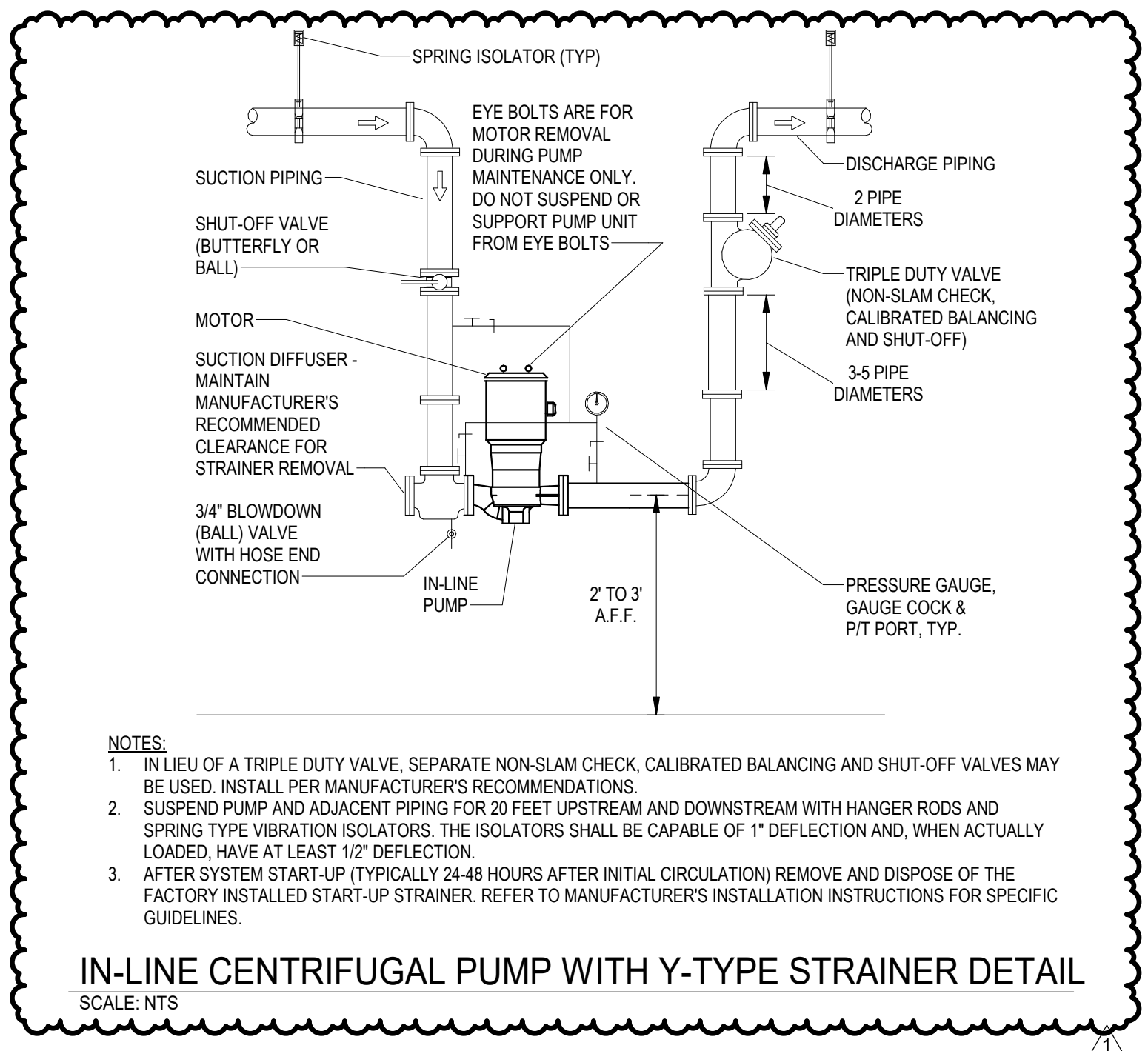
DETAIL OF DUCT PASSING THRU WALLS
SCALE: NTS



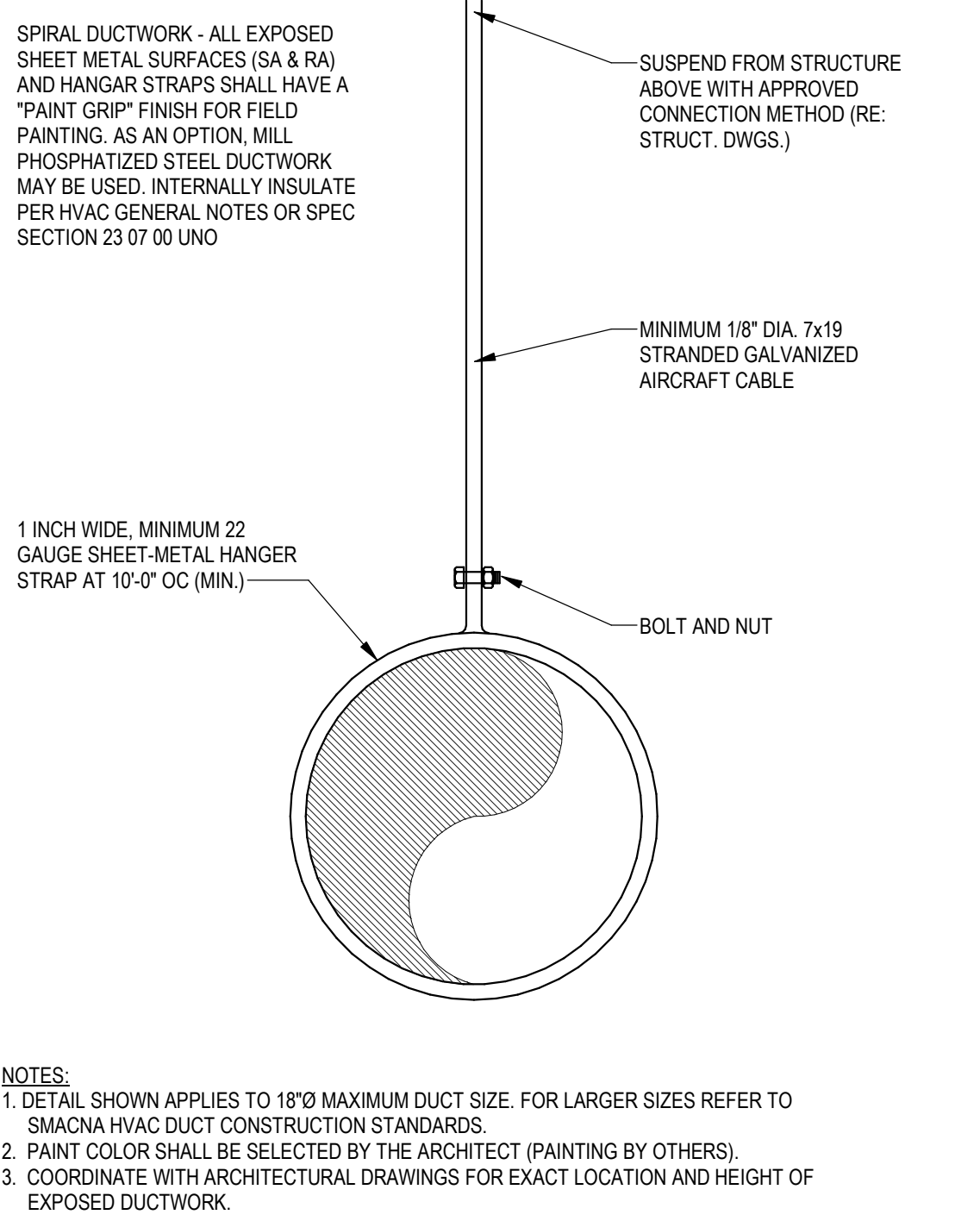
RA/EA TRANSFER DUCT
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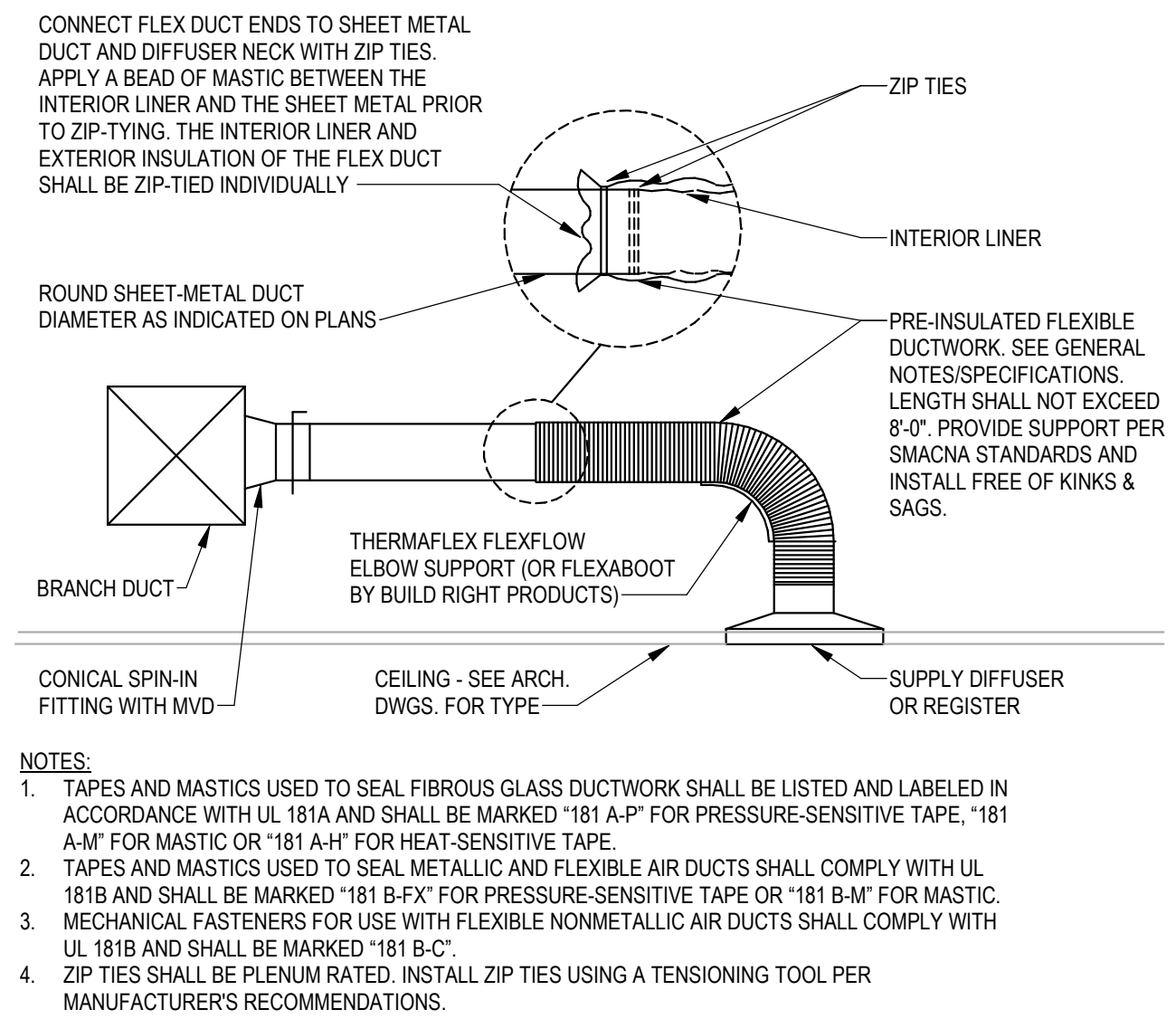
IN-LINE CENTRIFUGAL FAN DETAIL
SCALE: NTS



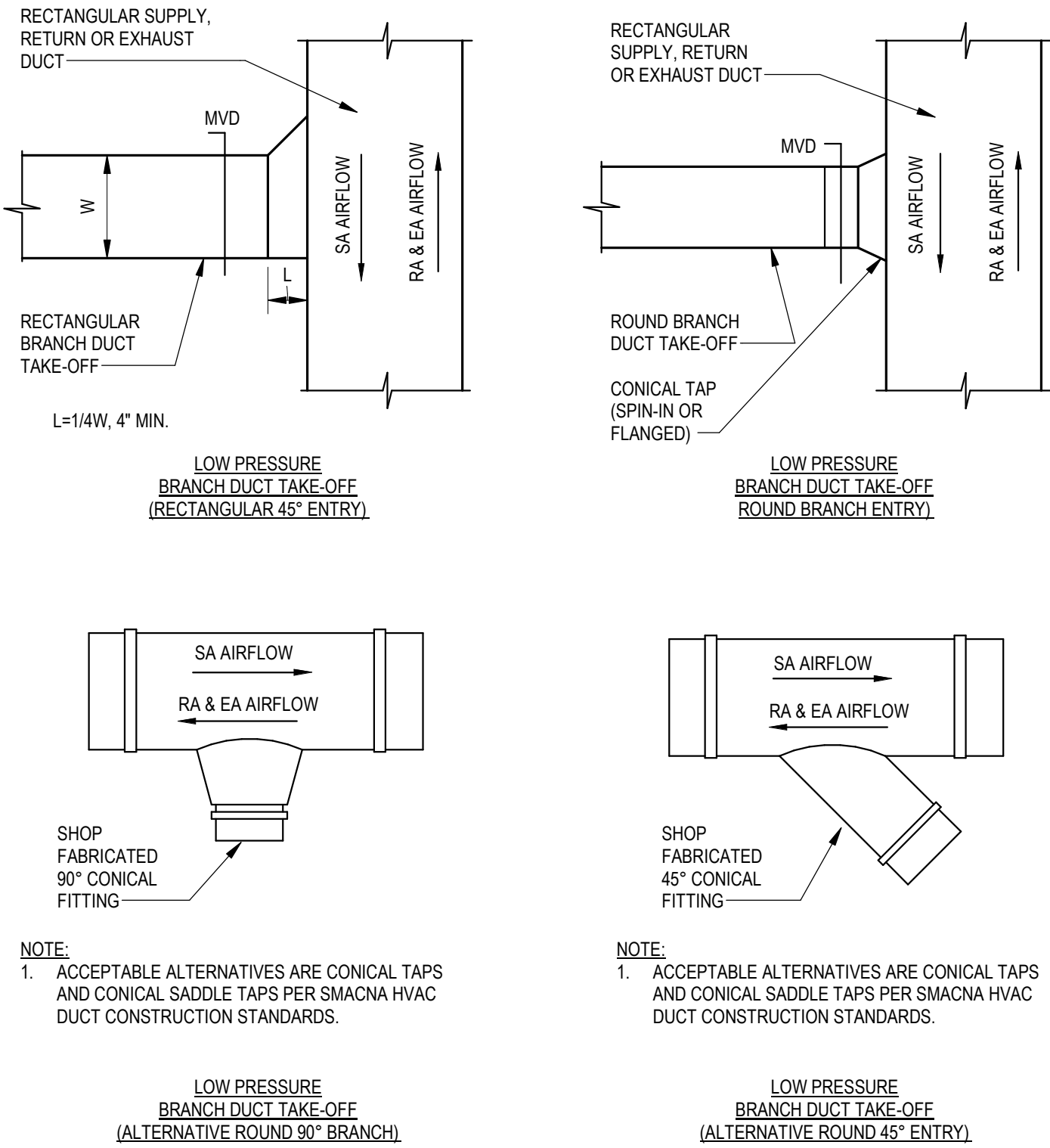
IN-LINE CENTRIFUGAL PUMP WITH Y-TYPE STRAINER DETAIL
SCALE: NTS



EXPOSED SPIRAL DUCT HANGER DETAIL
SCALE: NTS



COMMERCIAL FLEXIBLE DUCT TAKE-OFF DETAIL
SCALE: NTS



BRANCH DUCT TAKE-OFF DETAIL
SCALE: NTS

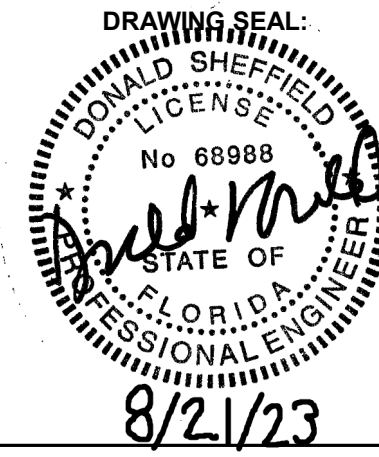
KILLEARN COUNTRY CLUB, LLC
CLUBHOUSE

100 TYRON CIRCLE BUILDING 1, TALLAHASSEE, FL 32309

DAG
ARCHITECTS

DAG Architects ARO0009694
850 S. GADSDEN ST., SUITE 140
TALLAHASSEE, FL 32301
850.656.7506
www.DAGarchitects.com

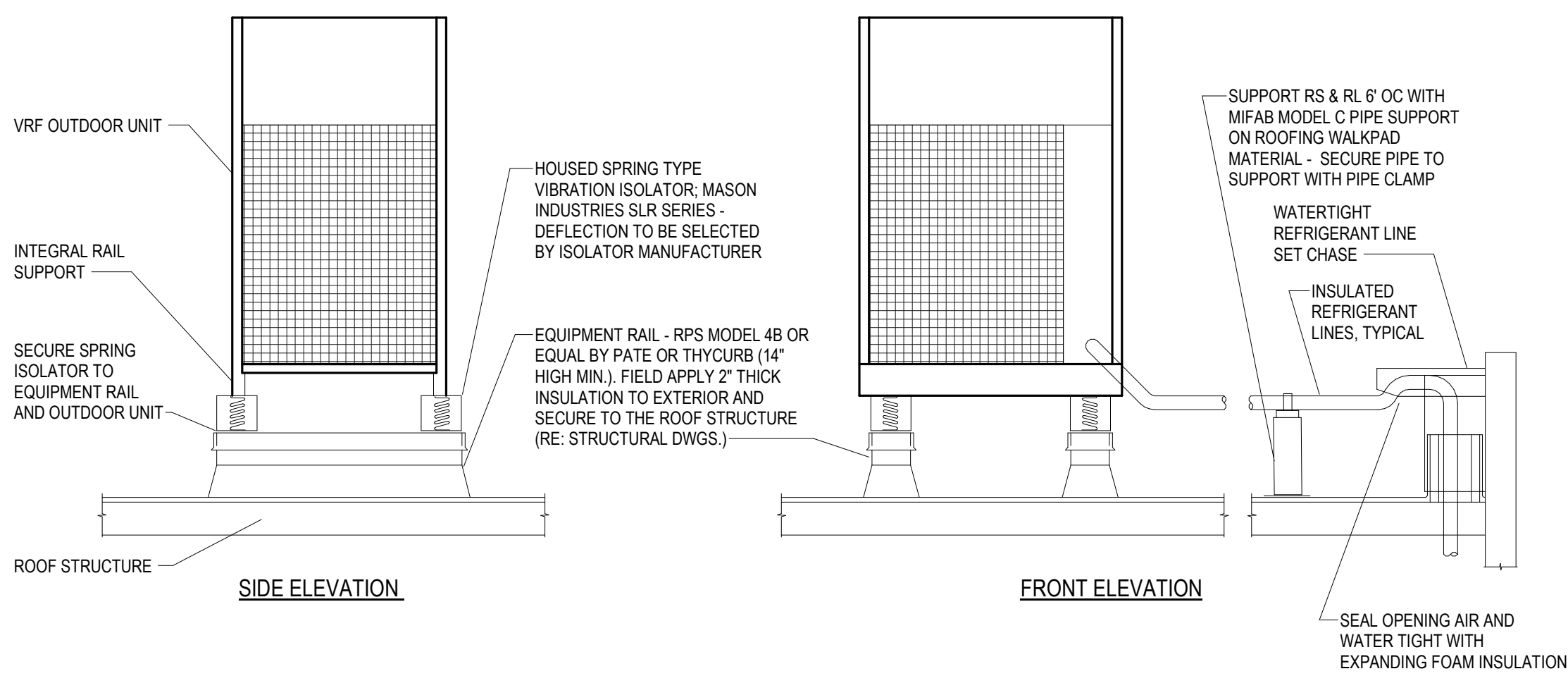
CONSTRUCTION
DOCUMENTS



DETAILS - HVAC

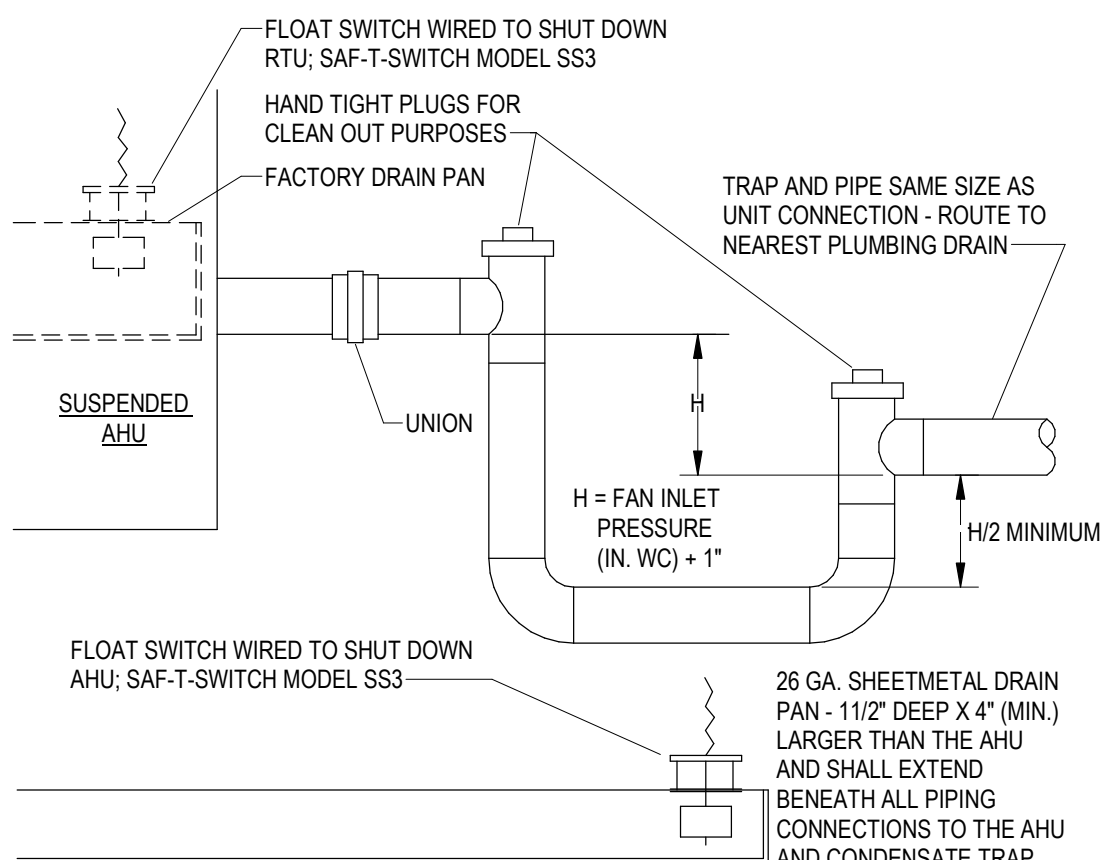
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A	COT RESPONSE	08/21/23

M-003



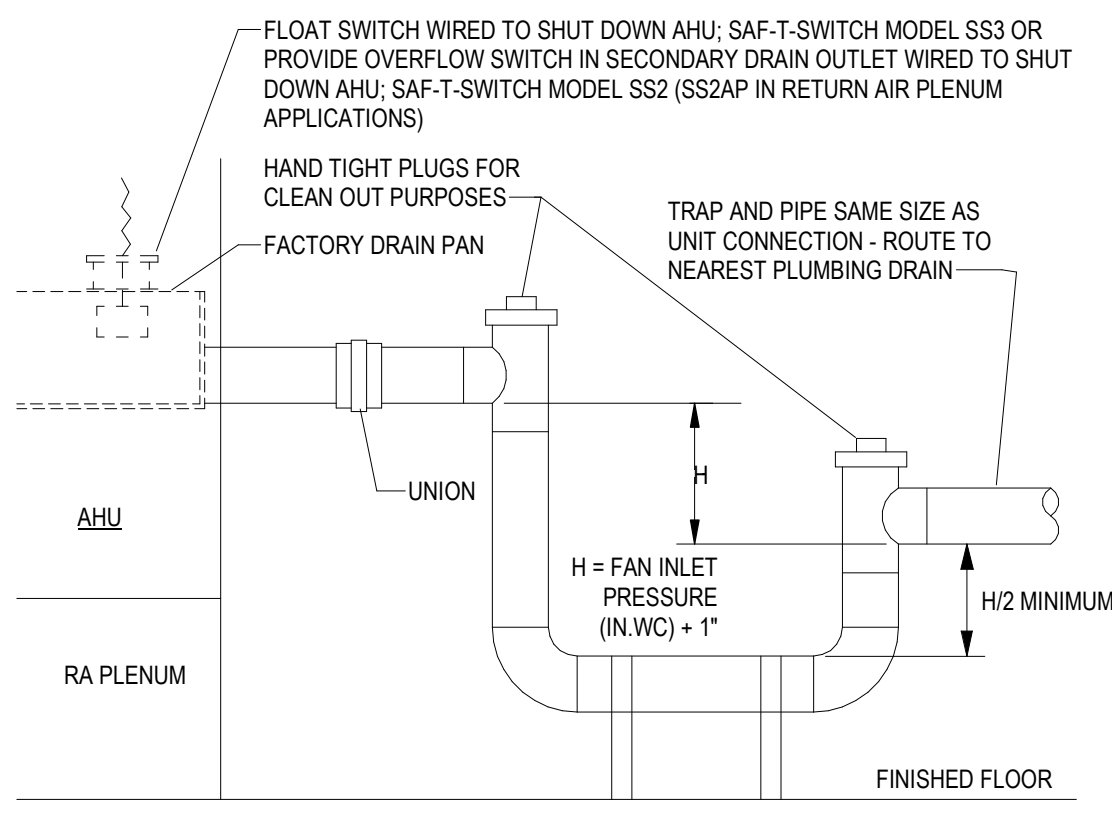
- NOTES:
1. MIFAB PIPE SUPPORT TO HAVE 14 GA. X 3/16\"/>
 2. MAINTAIN ALL CODE ACCESS AND MANUFACTURER CLEARANCES AROUND UNITS. REFER TO GENERAL NOTES FOR REQUIRED NEC CLEARANCES.
 3. INSTALL ELECTRICAL DISCONNECT ON UNISTRUT SO AS TO NOT OBSTRUCT EQUIPMENT ACCESS OR CLEARANCES.

VRF ROOF MOUNTING DETAIL
SCALE: NTS



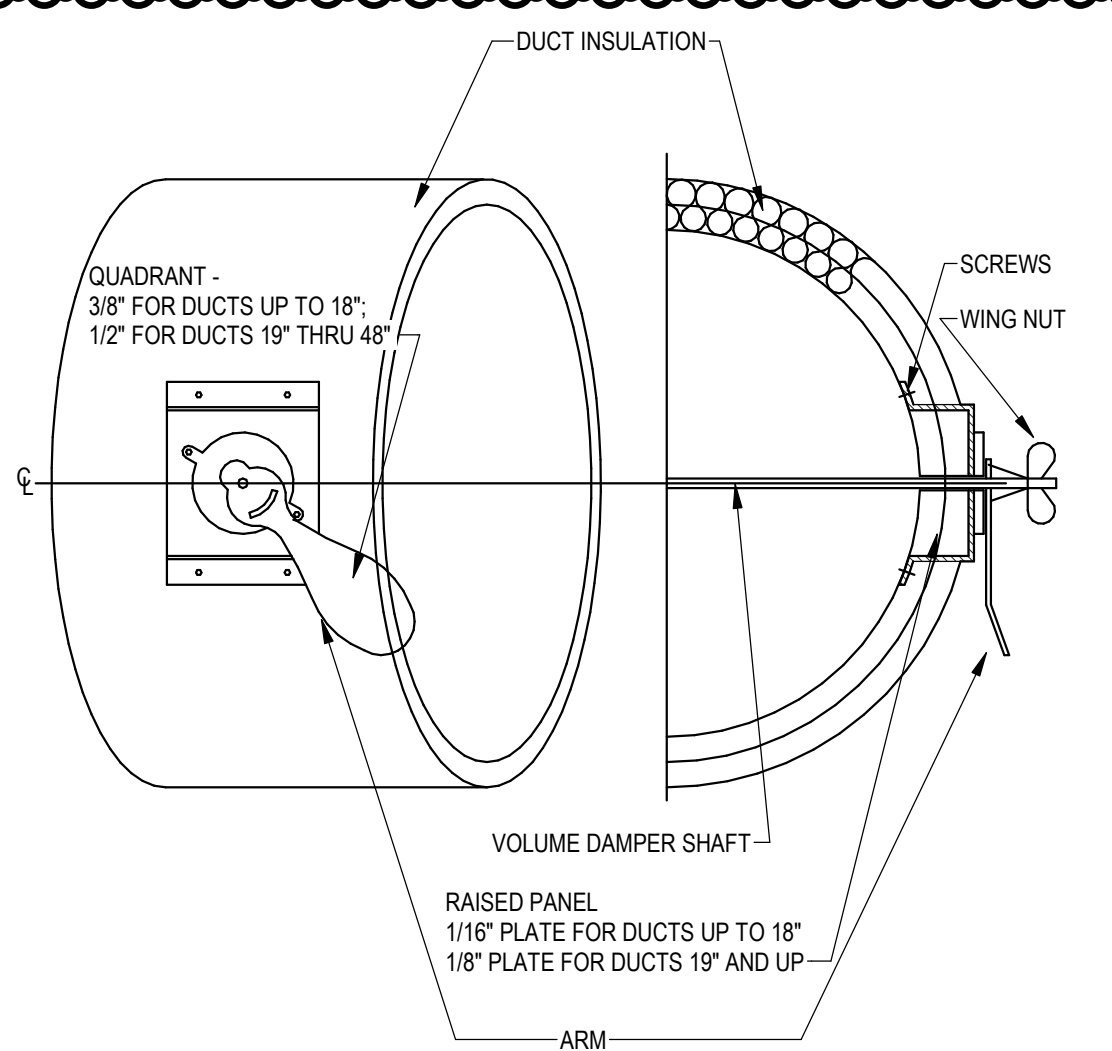
- NOTES:
1. SLOPE PIPING DOWN TOWARDS PLUMBING DRAIN AT 1/8\"/>
 2. RUNNING TRAPS ARE NOT ALLOWED.
 3. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM MUST MEET FLAME SPREAD/SMOKE DEVELOPED RATINGS OF 25/50.
 4. TEST THE FLOAT SWITCH IN THE DRAIN PAN FOR PROPER OPERATION AT LEAST ONCE A YEAR.

CONDENSATE DRAIN TRAP DETAIL
SCALE: NTS



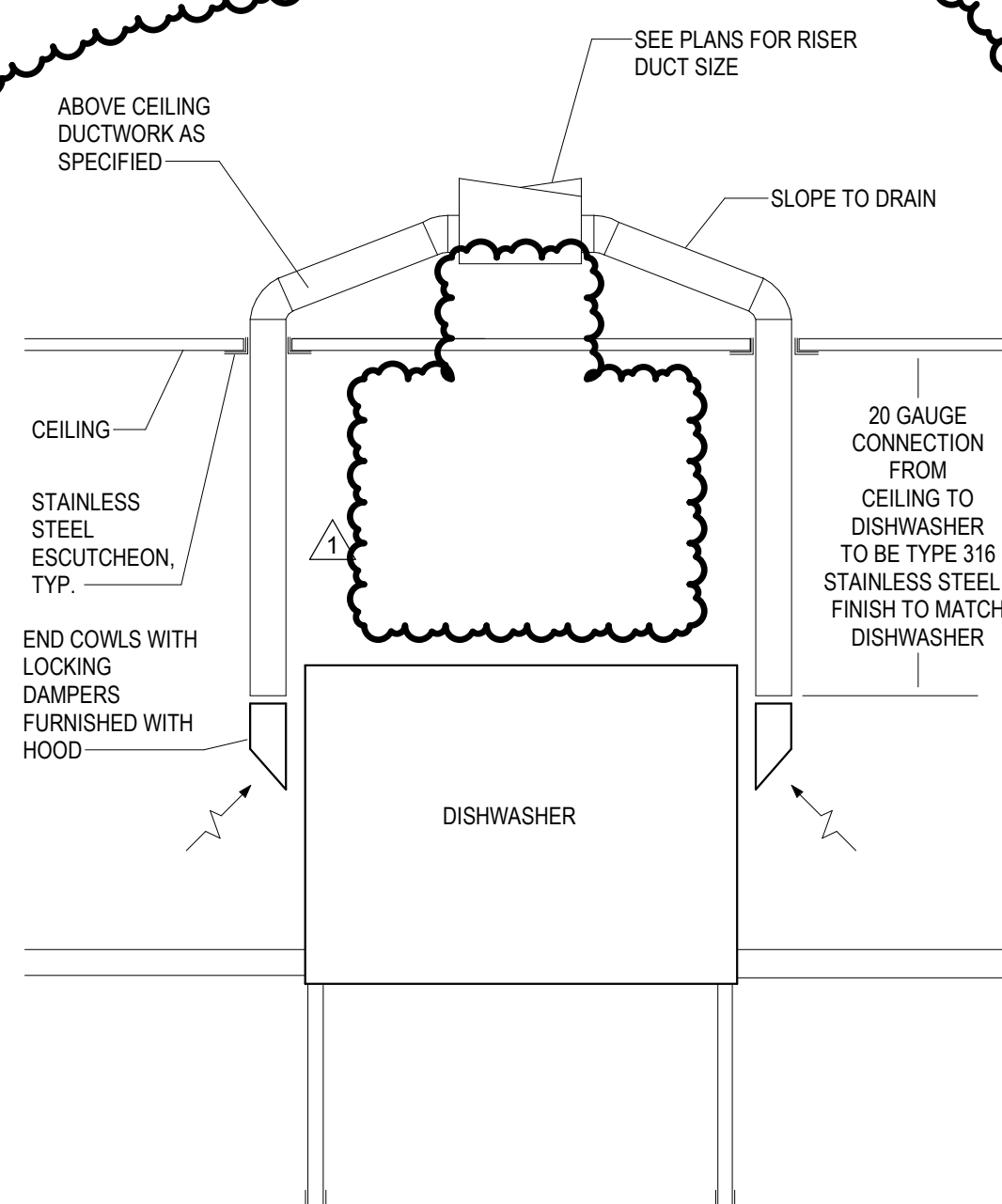
- NOTES:
1. SLOPE PIPING DOWN TOWARDS PLUMBING DRAIN AT 1/8\"/>
 2. RUNNING TRAPS ARE NOT ALLOWED.
 3. ALL PIPING LOCATED WITHIN A RETURN AIR PLENUM MUST MEET FLAME SPREAD/SMOKE DEVELOPED RATINGS OF 25/50.
 4. TEST THE FLOAT SWITCH IN THE DRAIN PAN FOR PROPER OPERATION AT LEAST ONCE A YEAR.

CONDENSATE DRAIN TRAP DETAIL
SCALE: NTS

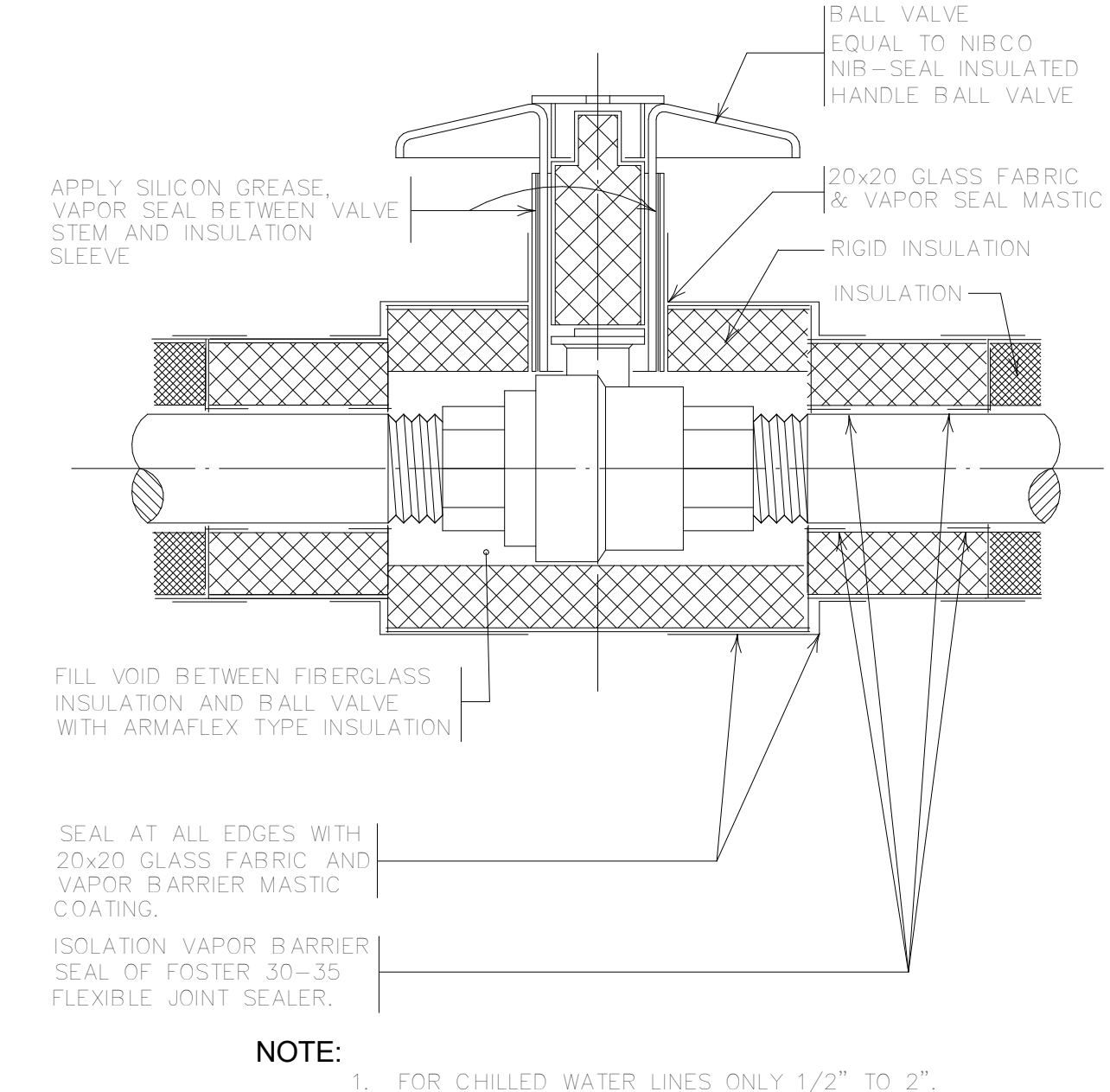


MANUAL VOLUME DAMPER DETAIL
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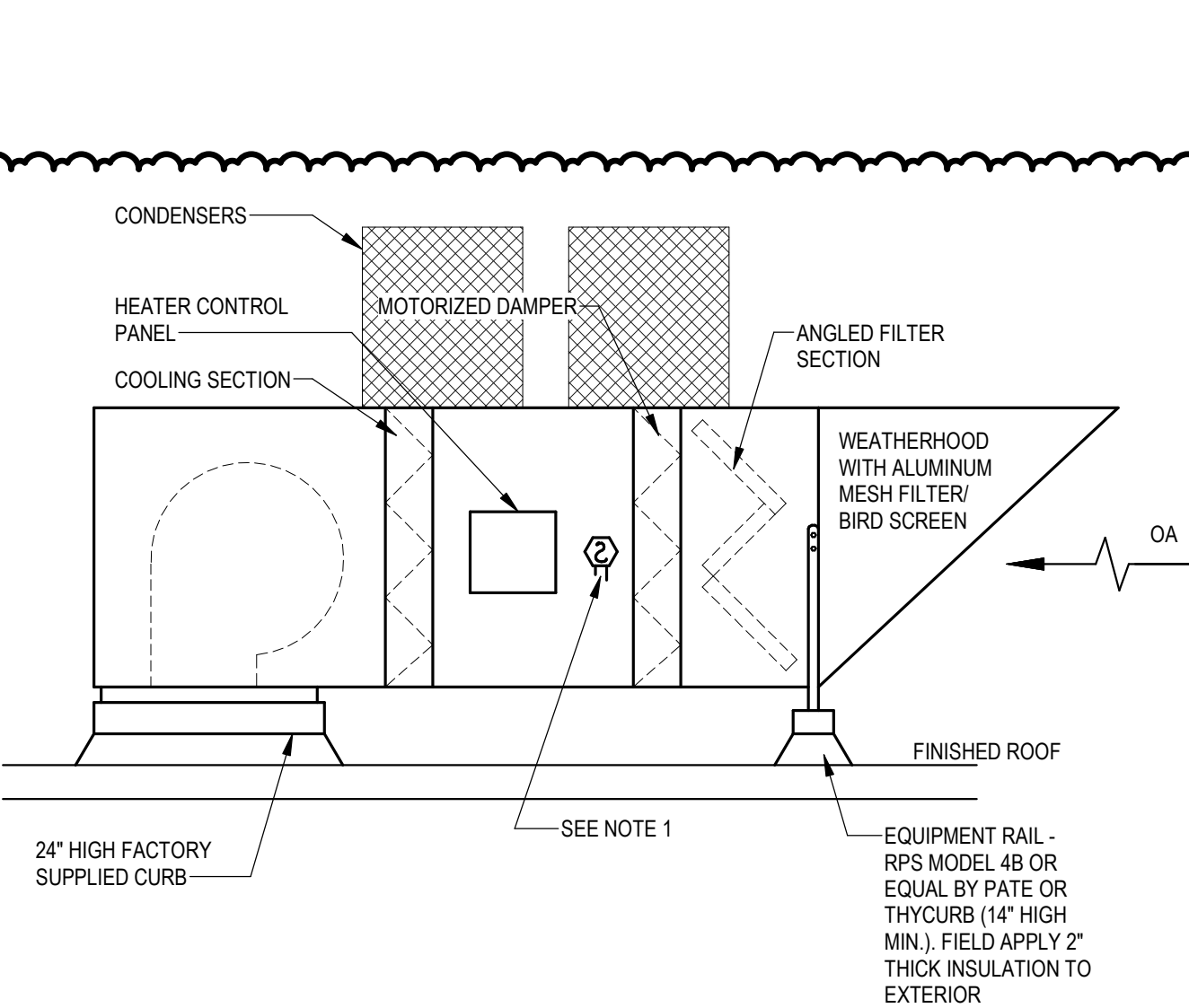
HORIZONTAL FIRE/SMOKE DAMPER DETAIL
SCALE: NTS



DISHWASHER HOOD DETAIL - COWL TYPE
SCALE: NTS

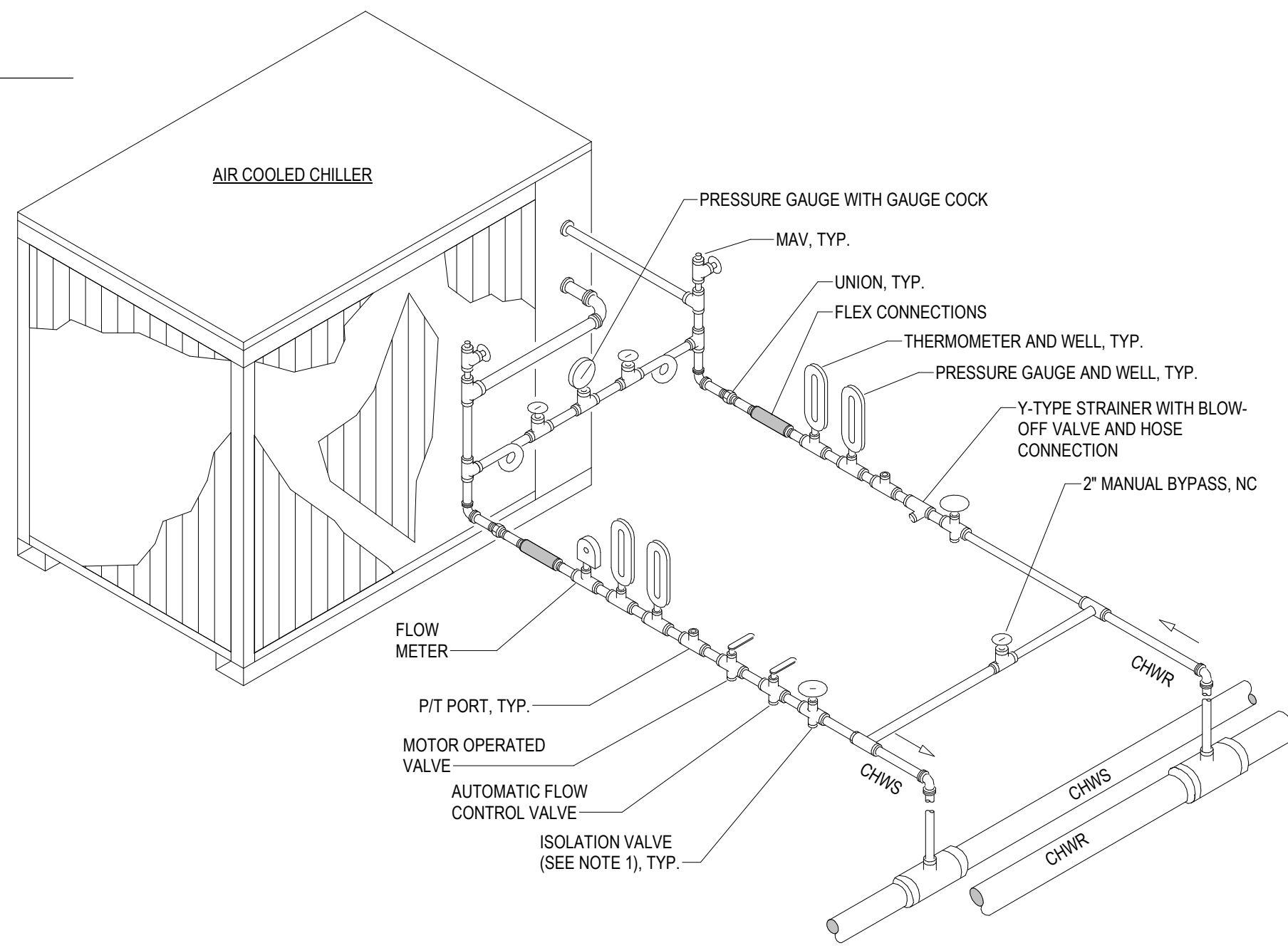


BALL VALVE INSULATION DETAIL
SCALE: NTS



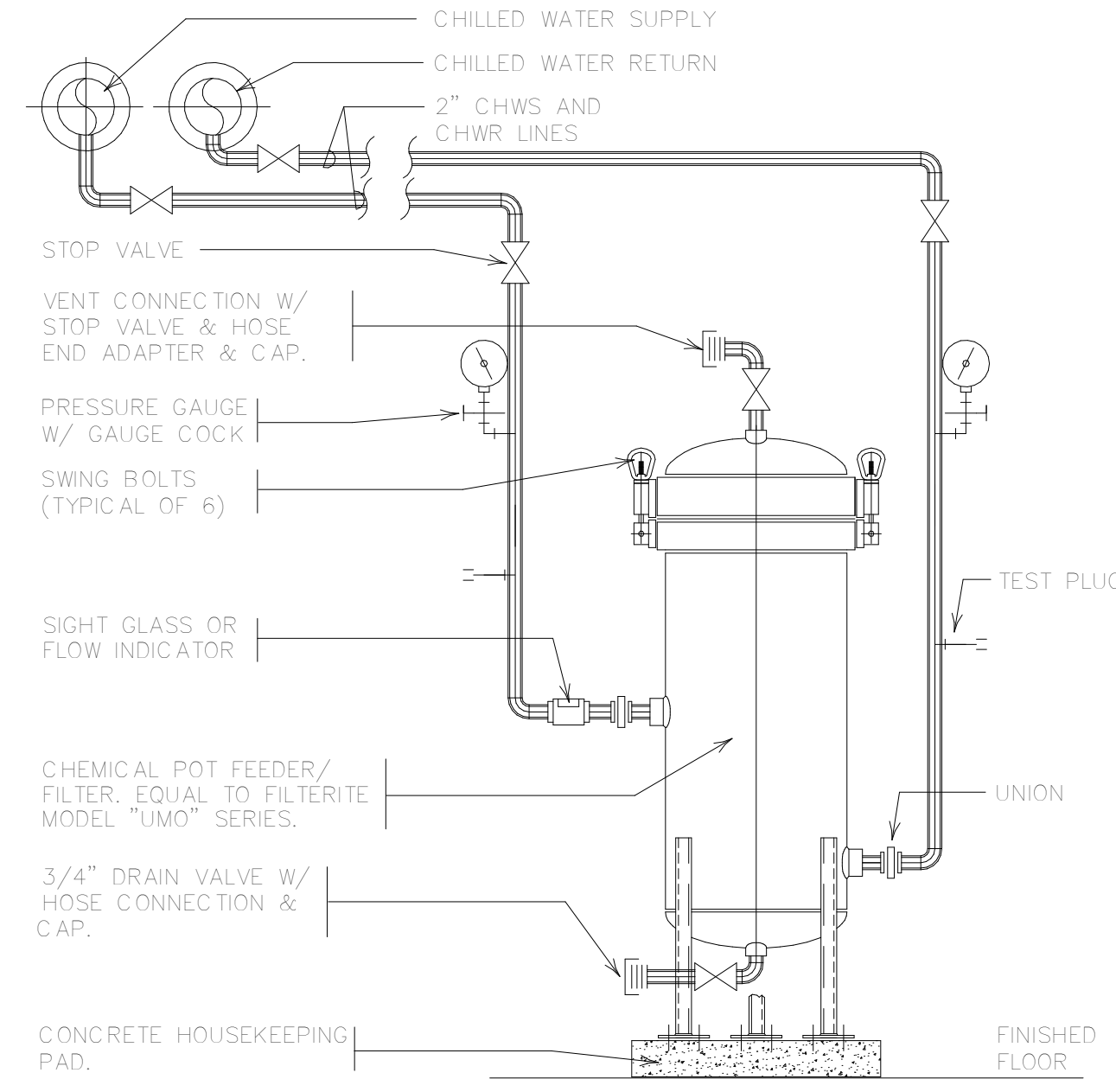
- NOTE:
1. COORDINATE DUCT SMOKE DETECTOR LOCATION WITH UNIT MANUFACTURER AND ELECTRICAL SUBCONTRACTOR.

MAKE-UP AIR UNIT DETAIL
SCALE: NTS



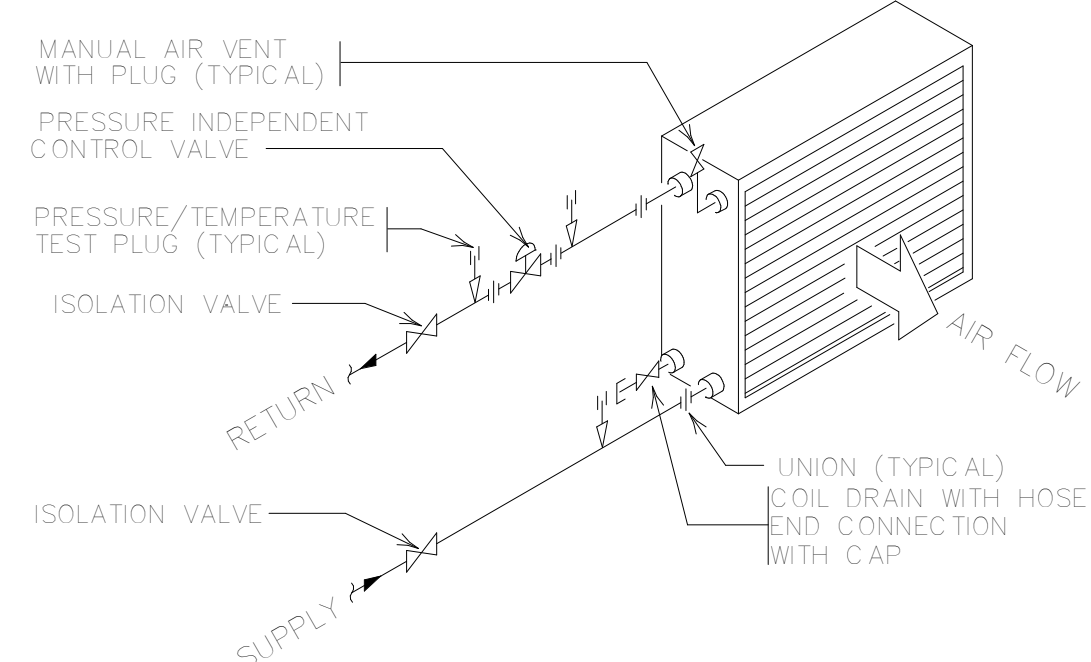
- NOTES:
1. 2 1/2\"/>
 2. PIPE STANDS SHALL BE PROVIDED AT 6' OC AND AT EACH CHANGE OF DIRECTION.
 3. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL TAKE PRECEDENCE OVER THIS DETAIL.
 4. MOUNT CHILLER ON A 6\"/>

AIR COOLED CHILLER PIPING DETAIL
SCALE: NTS

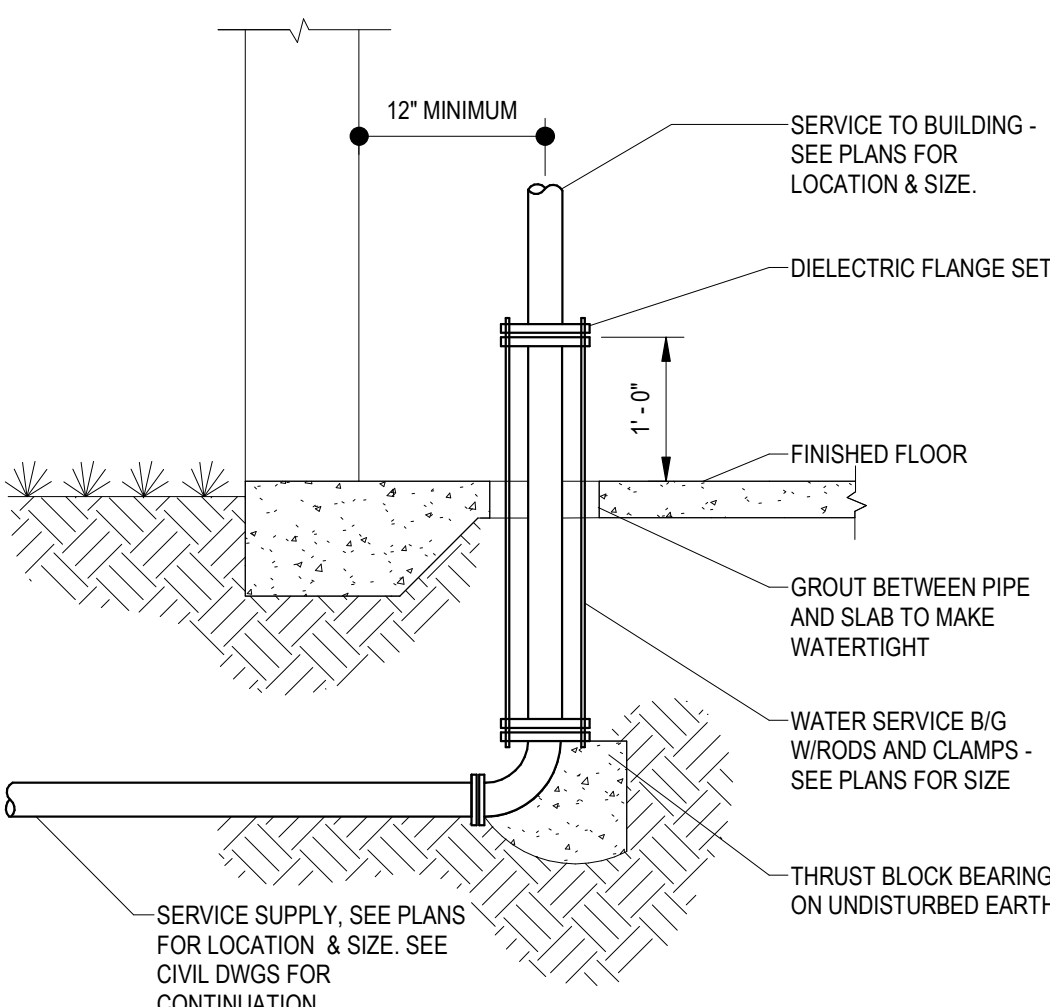


CHEMICAL POT FEEDER/FILTER DETAIL
SCALE: NTS

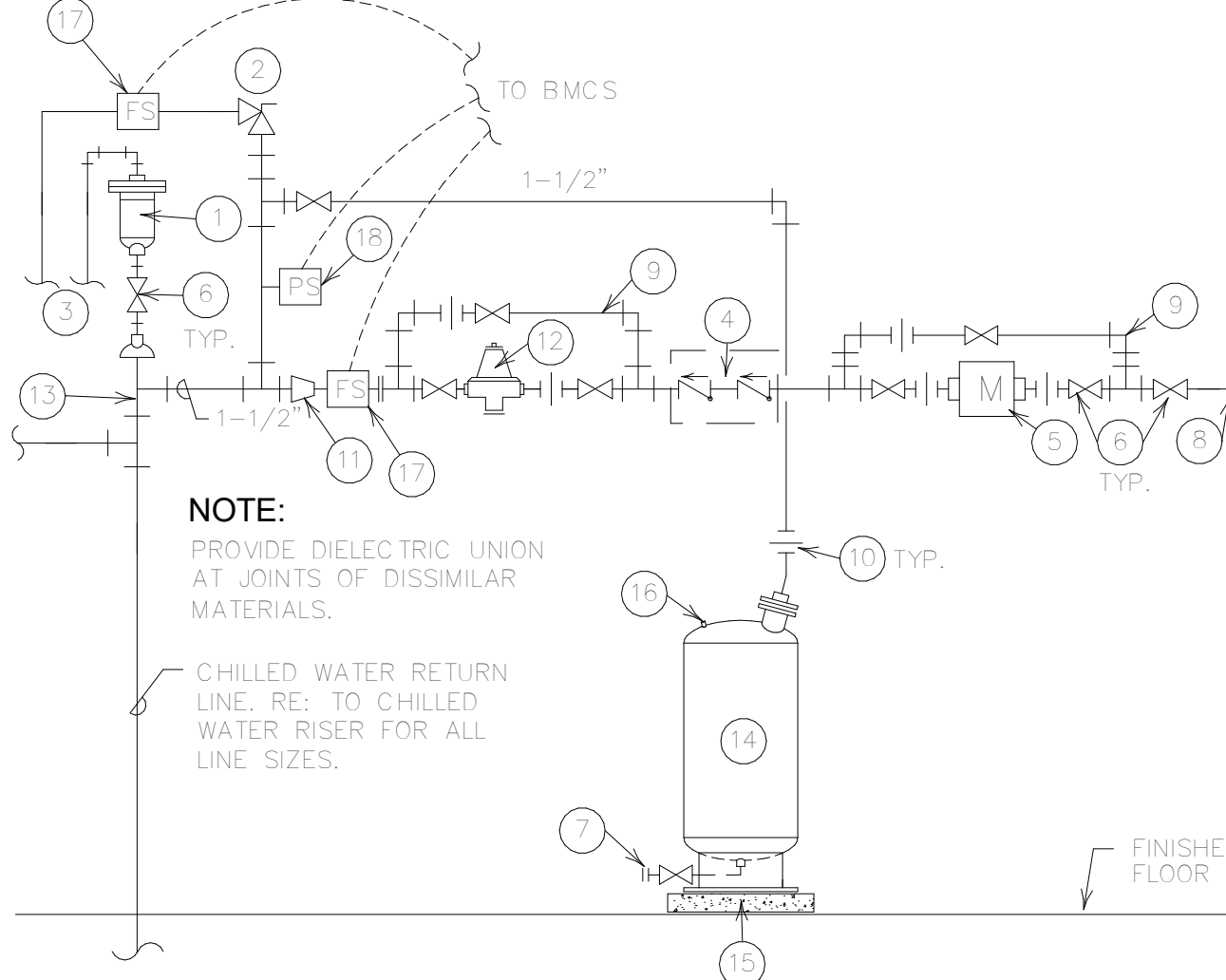
- NOTES:
1. INSULATE ALL PIPING, VALVES, FITTINGS AND ACCESSORIES.
 2. INSTALL TEST PLUGS IN EASILY ACCESSIBLE LOCATIONS WITH MINIMUM OF 12\"/>



TYPICAL 2-WAY CONTROL VALVE
SCALE: NTS

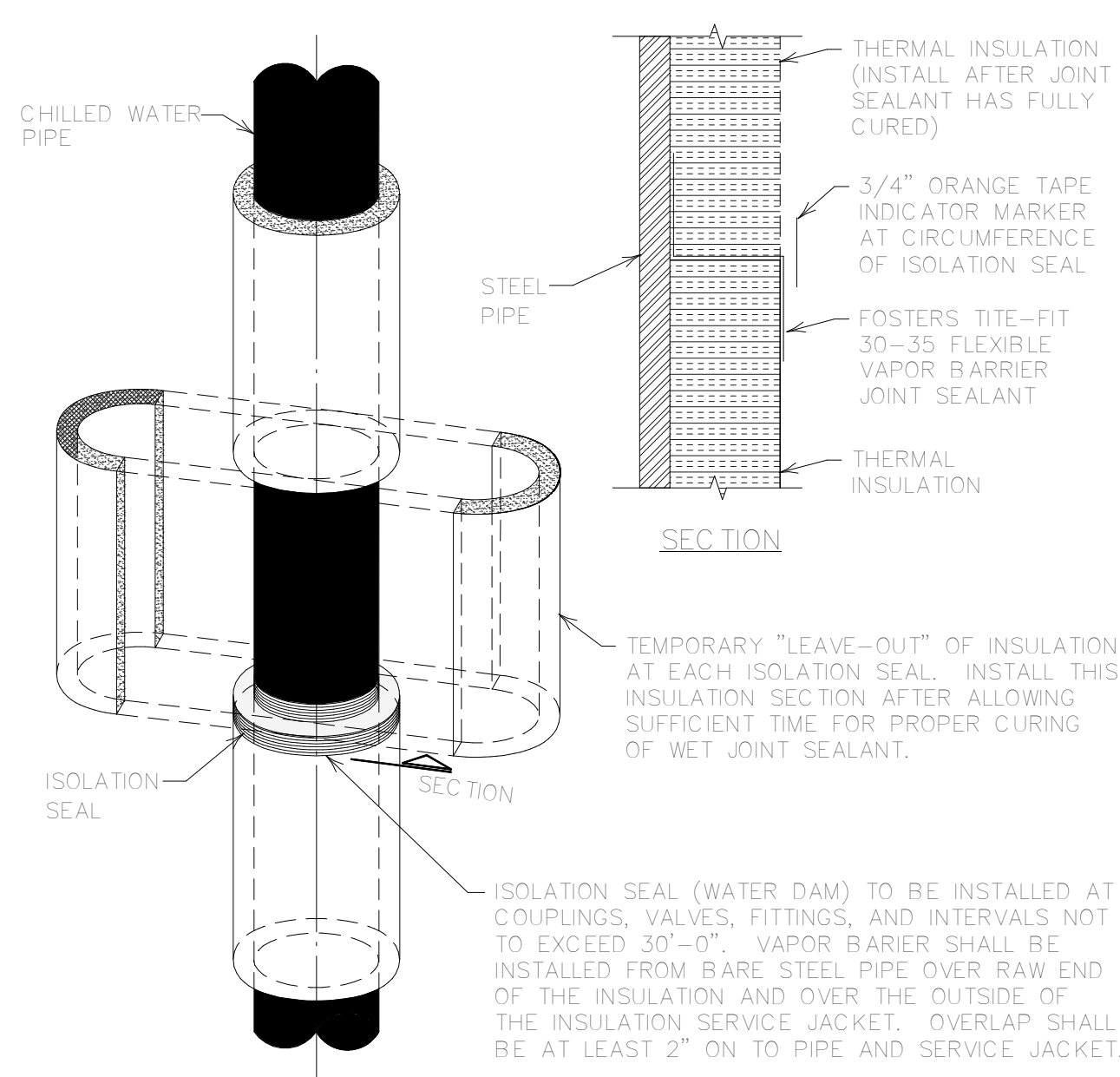


PIPE PENETRATION THRU SLAB ON GRADE
SCALE: NTS

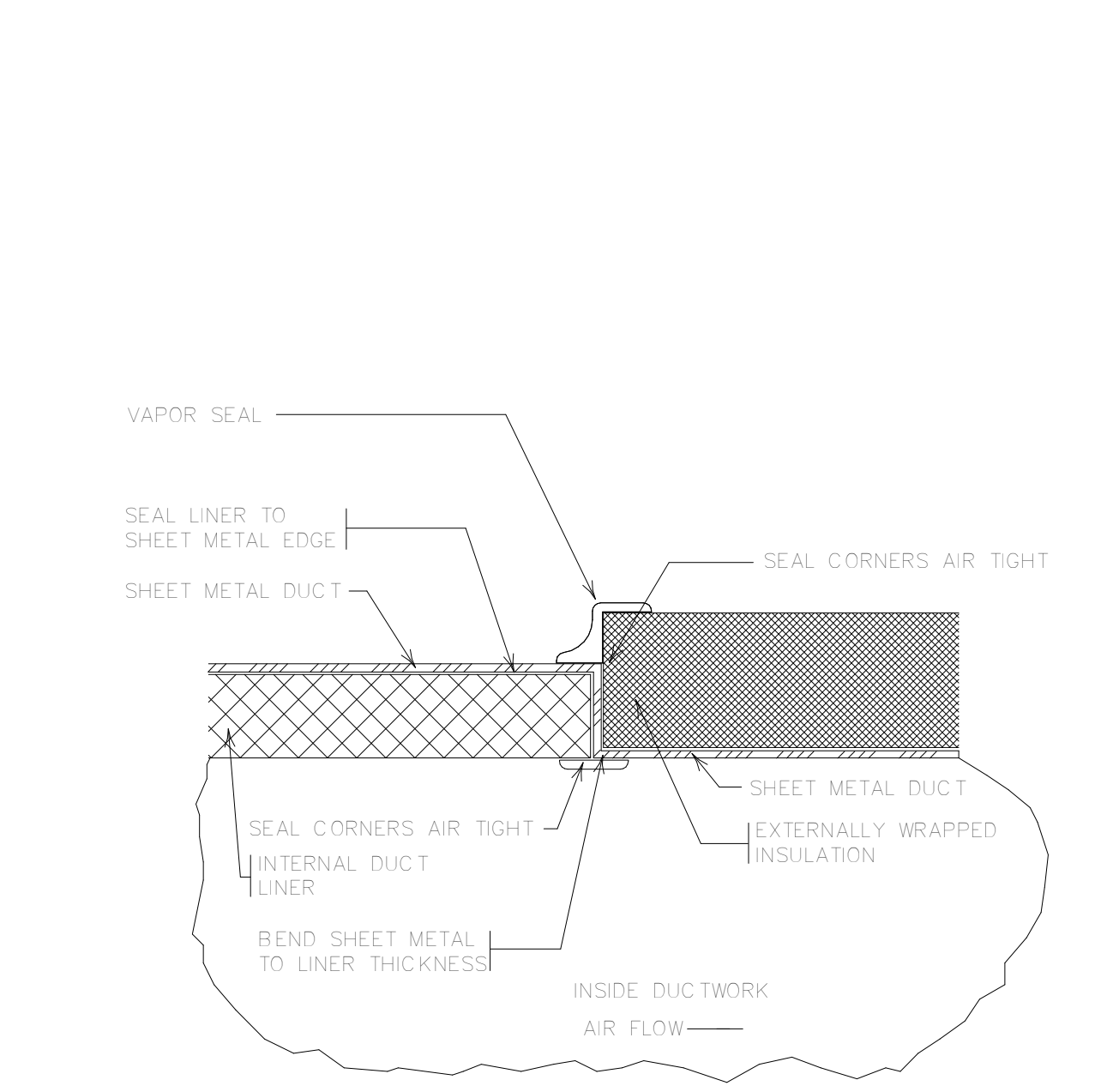


- KEYED NOTES:
1. AUTOMATIC AIR VENT. SEE AUTOMATIC AIR VENT FOR ADDITIONAL INFORMATION.
 2. PRESSURE RELIEF VALVE.
 3. ROUTE DRAIN LINES TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
 4. BACK FLOW PREVENTER. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 5. DOMESTIC WATER METER. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
 6. STOP VALVE. (FULL PORT BALL VALVE)
 7. 3/4\"/>
 8. DOMESTIC COLD WATER LINE. RE: TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
 9. FULL SIZE BY-PASS LINE.
 10. UNION
 11. CONCENTRIC REDUCER.
 12. DOMESTIC WATER PRESSURE REDUCING VALVE.
 13. DO NOT INSTALL VALVES BETWEEN SYSTEM AND RELIEF VALVE.
 14. DIAPHRAGM TYPE EXPANSION TANK. SEE SCHEDULE ABOVE FOR CAPACITY.
 15. CONCRETE HOUSEKEEPING PAD.
 16. AIR CHARGE CONNECTION
 17. FLOW SWITCH WITH ALARM OUTPUT FOR BMCS CONNECTION. REFER TO SPECIFICATION.
 18. PRESSURE SENSOR BY DIVISION 25 FOR HIGH AND LOW PRESSURE ALARM TO BMCS.

CLOSED SYSTEM EXPANSION TANK DETAIL
SCALE: NTS



THERMAL INSULATION ISOLATION SEAL FOR CHILLED WATER PIPE AND FITTINGS
SCALE: NTS



INTERNAL/EXTERNAL INSULATION DETAIL
SCALE: NTS

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Project Number: 22010703 Drawn By: STH Checked By: SP

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CONSTRUCTION
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LICENSED
No. 68988
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
8/21/23

KILLEARN COUNTRY CLUB, LLC
CLUBHOUSE

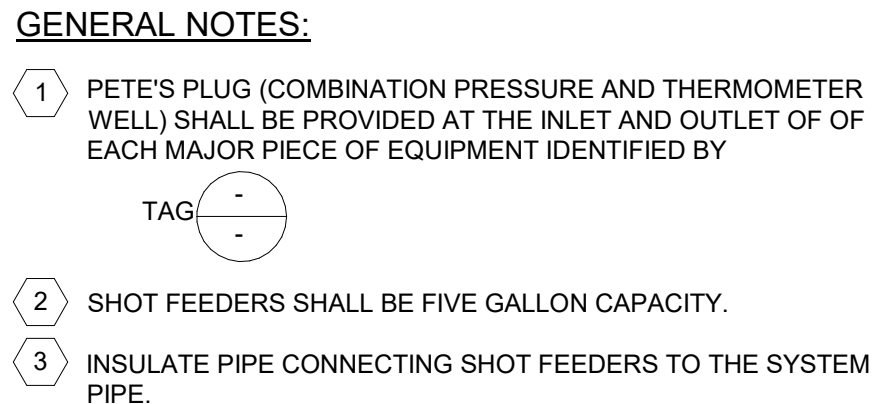
100 TYRON CIRCLE BUILDING 1, TALLAHASSEE, FL 32309

REVISIONS:		
No.	Description	Date
1	REVISION 1	08/21/23

DETAILS - HVAC

PROJECT NUMBER	22038
DATED	8/21/2023

M-004



HVAC AIR SEPARATOR							
TAG	MANUFACTURER	MODEL NUMBER	FLUID	FLOW RATE (GPM)	PD (FT H ₂ O)	SIZE (IN)	ACCESSORIES
AS-1.1	SPIRO THERM	SR400FAV	WATER	240	5.0	4	1.2

SPECIFICATION NOTES (APPLY TO ALL UNITS):

- UNIT SHALL BE RATED FOR 125 PSIG MAXIMUM WORKING PRESSURE AND 270°F MAXIMUM OPERATING TEMPERATURE.
- UNIT SHALL BE DESIGNED, CONSTRUCTED, INSPECTED AND STAMPED PER ASME CODE SECTION VIII, DIVISION 1.
- UNIT SHALL BE EQUIPPED WITH A REMOVABLE HEAD, BLOWDOWN BALL VALVE WITH HOSE END CONNECTION AND AUTOMATIC AIR VENT.
- END CONNECTIONS SHALL MATCH END CONNECTIONS IN PIPING SYSTEM.

ACCESSORIES:

- BRASS SKIM VALVE
- BRASS BALL VALVE

SELECTIONS BASED ON PRODUCTS BY SPIRO THERM.
 EQUAL PRODUCTS BY BELL & GOSSETT, CALEFFI, ARMSTRONG, TACO, AMTROL PROVIDED THEY MEET OR EXCEED THE SPECIFICATIONS.

HVAC BUFFER TANKS							
TAG	MANUFACTURER	MODEL NUMBER	FLUID	VOLUME (GAL)	PD (FT H2O)	FLANGE SIZE (IN)	ACCESSORIES
BT-1-1	ELBI	CWT-120	CHILLED WATER	120	5.0	4	1,2,3,4,5

SPECIFICATION NOTES (APPLY TO ALL UNITS)

A. UNIT SHALL BE RATED FOR 125 PSIG MAXIMUM WORKING PRESSURE AND 270°F MAXIMUM OPERATING TEMPERATURE.

B. UNIT SHALL BE DESIGNED, CONSTRUCTED, INSPECTED AND STAMPED PER ASME CODE SECTION VIII, DIVISION 1.

ACCESSORIES:

1. INTERNAL BAFFLE

2. FLANGED CONNECTIONS

3. ASME CERTIFIED

4. HORIZONTAL FLOOR MOUNTED ON A 4" THICK CONCRETE HOUSEKEEPING PAD

5. AIR VENT AND DRAIN

SELECTIONS BASED ON PRODUCTS BY SPIROTHERM.

EQUAL PRODUCTS BY BELL & GOSSETT, CALEFFI, ARMSTRONG, TACO, AMTROL PROVIDED THEY MEET OR EXCEED THE SPECIFICATIONS.

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Project Number: 22010703 Drawn By: STH Checked By: SP

TABLE 15.10-10 CLEARANCE BELOW HANGING ROOF MOUNTED MECHANICAL UNITS		
WIDTH OF MECHANICAL UNIT (INCHES)	MINIMUM CLEARANCE ABOVE (INCHES)	MINIMUM CLEARANCE ABOVE (FEET)
1-24	18	1.5
25-36	24	2.0
37-48	30	2.5
49-60	36	3.0
61-72	42	3.5
73-84	48	4.0

AIR PURIFICATION UNIT				
TAG	MODEL NO.	TOTAL CFM	ACCESSORIES	
APU 1	S1000	1000	1,2,3,4	
ACCESSORIES:				
1. HYDROXYL CONTROLLER TO ACTIVATE UVV LAMP AT 0.025 PPM				
2. PREFILTER				
3. J LAMP, UVV LAMP, AND UVV LAMP				
4. PROVIDE DISCONNECT SWITCH				
BASIS OF DESIGN IS SANUVAIR				

HVAC AIR CURTAIN										
TAG	MANUFACTURER	MODEL	LENGTH (IN)	FAN			HEATING	SOUND LEVEL (dBA)	WEIGHT (LBS)	ACCESSORIES
				AIRFLOW (CFM)	MOTOR					
					QTY.	HP				
EAC 1	MARS	STD296-ZU	96	2884	2	0.5	N/A	68	135	1,2,3
EAC 2	MARS	STD296-ZU	96	2884	2	0.5	N/A	68	135	1,2,3
ACCESSORIES										
1. DOOR LIMIT SWITCH										
2. MOTOR CONTROL PANEL										
3. ADJUSTABLE MOUNTING BRACKET										
SELECTIONS BASED ON PRODUCTS BY MARS AIR SYSTEMS										

HVAC ELECTRIC HEATERS							
TAG	MANUFACTURER	MODEL NO.	TYPE	CAPACITY (KW)	MOUNTING HEIGHT (IN.)	WEIGHT (LBS)	ACCESSORIES
ERH-A	INFRA TECH	C-15	RADIANT	1.5	-	15	2,3,5
ERH-B	INFRA TECH	C-25	RADIANT	2.5	-	15	2,3,6
ERH-C	INFRA TECH	C-40	RADIANT	4.0	-	20	2,3,7
EUH 1-1	RAYWALL	5100	UNIT	3.0	9	20	1,2,3,4
NOTES (APPLY TO ALL HEATERS): A. ALL HEATERS SHALL BE UL OR ETL TESTED AND LISTED. B. OUTPUT CAPACITY SCHEDULED IS AT INSTALLED VOLTAGE. COORDINATE WITH ELECTRICAL DWGS. C. ALL HEATERS SHALL HAVE THERMAL OVERLOAD PROTECTION. D. STAIRWELL AND SPRINKLER RISER ROOM HEATERS - THERMOSTAT SETPOINT SHALL BE 45°F. E. FOR ECH, REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND PROVIDE MOUNTING FRAME COMPATIBLE WITH CEILING.							
ACCESSORIES: 1. INTEGRAL TAMPERPROOF THERMOSTAT 2. INTEGRAL DISCONNECT SWITCH 3. UNIVERSAL WALL/CEILING MOUNTING BRACKET 4. FAN GUARD AND COVER DIFFUSER 5. TYPICAL OF 5 6. TYPICAL OF 6 7. TYPICAL OF 16							
SELECTIONS BASED ON PRODUCTS BY MARVEL, BERKO, QMARK, INCECO, MARLEY, REDDI, STEPLRO							

HVAC FANS												
TAG	MANUFACTURER	MODEL	TYPE	DUTY	CFM	ESP (IN WG)	MOTOR SIZE (HP)	RPM	DRIVE	SONES	WEIGHT (LBS)	ACCESSORIES
EF-1-1	GREENHECK	G-090-VG	RCD	RESTROOM EXHAUST	650	0.5	1/10	1725	D	8.8	62	1,2,5,6,7,8
EF-1-2	GREENHECK	G-040-VG	ILC	RESTROOM EXHAUST	225	0.375	1/10	1448	D	6.5	64	1,2,4,5,6,8
EF-1-3	GREENHECK	G-045-VG	ILC	WOMENS LOCKER EXHAUST	620	0.375	1/6	1585	D	8.4	65	1,2,4,5,6,8
EF-1-4	GREENHECK	G-045-VG	ILC	MENS LOCKER EXHAUST	695	0.375	1/6	1673	D	9.4	65	1,2,4,5,6,8
EF-B-1	GREENHECK	G-045-VG	ILC	RESTROOM EXHAUST	500	0.5	1/6	1606	D	8.5	65	1,2,4,5,6,8
EF-B-2	GREENHECK	G-045-VG	ILC	RESTROOM EXHAUST	500	0.5	1/6	1606	D	8.5	65	1,2,4,5,6,8
EF-B-3	GREENHECK	G-045-VG	ILC	WINE COOLER EXHAUST	500	0.5	1/6	1606	D	8.5	65	1,2,4,5,6,8
EF-B-4	GREENHECK	G-045-VG	ILC	WINE COOLER EXHAUST	500	0.5	1/6	1606	D	8.5	65	1,2,4,5,6,8
KEF-2	GREENHECK	CUE-160-VG	RCD	HOOD EXHAUST	3380	1.3	2	1890	D	23.0	169	2,3,5,6,7,9
KEF-3	GREENHECK	CUE-160-VG	RCD	HOOD EXHAUST	3380	1.3	2	1890	D	23.0	169	2,3,5,6,7,9
KEF-4	GREENHECK	CUE-160-VG	RCD	HOOD EXHAUST	3380	1.3	2	1890	D	23.0	169	2,3,5,6,7,9
KEF-5	GREENHECK	CUE-140-VG	RCD	HOOD EXHAUST	2120	1.375	1	1710	D	14.0	79	2,3,5,6,9,11
NOTES:										FAN TYPES: RCD - ROOF CENTRIFUGAL DOWNBLAST RDU - ROOF CENTRIFUGAL UPBLAST ILC - IN-LINE CENTRIFUGAL		DRIVE TYPE: D - DIRECT
A. GREASE REMOVAL FANS SHALL BE LISTED FOR GREASE REMOVAL (UL 762) AND ELECTRICAL (UL 705)												
B. REFER TO DETAILS FOR ADDITIONAL OPTIONS: ACCESSORIES, MOUNTING ARRANGEMENT, ETC.												
C. WEIGHTS INCLUDE ACCESSORIES, CURBS, MOTORS, ETC.												
D. FANS THAT ARE SCHEDULED TO RUN CONTINUOUSLY SHALL HAVE IEC 60304-1 CONTINUOUS DUTY RATED MOTORS.												
E. FANS THAT ARE INTERCONNECTED WITH LIGHTING CONTROLS (E.G. LIGHT SWITCH) MAY NOT BE THE SAME VOLTAGE AS THE LIGHTING CIRCUIT. COORDINATE WITH THE ELECTRICAL CONTRACTOR AND PROVIDE RELAY/CONTROLS AS REQUIRED.												
F. REFER TO AIR HANDLING UNIT SCHEDULE FOR OA CFM AND BALANCE ACCORDINGLY.												
G. FANS SHALL BE CERTIFIED AND BEAR THE HVL-2100 OR ANCA LABEL FOR AIR AND SOUND PERFORMANCE.												
H. MOTORS CONTROLLED BY A VARIABLE FREQUENCY DRIVE (VFD) SHALL BE INVERTER DUTY MOTORS AND SHALL BE COMPATIBLE WITH THE PARTICULAR MANUFACTURER'S DRIVE THAT IS USED. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.												
I. FANS WITH SELECTABLE CFM SHALL BE SET TO THE APPROPRIATE SETTING DURING INSTALLATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.												
ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMEND ACCESSORIES FOR SAFE AND PROPER OPERATION):												
1. BACKDRAFT DAMPER												
2. DISCONNECT SWITCH												
3. VENTILATED ROOF CURB, HINGED BASE AND GREASE RESERVOIR												
4. HANGING ISOLATORS												
5. SOLID STATE SPEED CONTROLLER MOUNTED AT FAN FOR INITIAL BALANCE												
6. CONTROL INTERLOCK TO BUILDING AUTOMATION SYSTEM (BAS)												
7. MINIMUM 24" ROOF CURB, MINIMUM 14" ABOVE FINISHED ROOF												
8. BAS CONTROLLED ON TIME SCHEDULE												
9. CONTROL INTERLOCK TO RANGE HOOD												
10. CONTROL INTERLOCK TO PIZZA OVEN												
11. SIDEWALL RANGE EXHAUST FAN												
12. WALL SWITCH												
EQUIPMENT SELECTIONS BASED ON PRODUCTS BY GREENHECK.												
EQUAL PRODUCTS: SUBJECT TO COMPLIANCE WITH ALL CRITERIA, BY PENN. COOK, MACDORAE												

HVAC HYDRONIC AIR HANDLING UNITS																		
TAG	MODEL SIZE	AREA SERVED	FAN DATA			OA CFM	TYPE	MBH TOT COOL	MBH SENS COOL	GPM	COOLING (FT)		EWT/LWT (°F)	EAT DBWB (°F)	LAT DBWB (°F)	HEATING		EAT (°F)
			TOTAL CFM	FAN HP	ESP						WPD (FT)	EWTLWT (°F)				KW	MIN NO. STAGE	
AHU 1-1	BCVE072	PRO SHOP	2330	3.0	0.75	540	DIRECT	73.33	54.97	13.23	5.43	44.00/56.00	76.30/63.00	54.77/53.18	20.0	61.70	SCR	2" MERV 8
AHU 1-2	BCVE072	MENS LOUNGE	1750	1.0	0.75	120	DIRECT	29.42	28.52	5.33	0.77	44.00/56.00	74.00/62.70	58.39/57.08	15.0	66.90	SCR	2" MERV 8
AHU 1-3	BCVE072	CONFERENCE	680	0.5	0.75	100	DIRECT	16.78	14.17	3.03	1.78	44.00/56.00	73.80/61.90	54.60/53.33	5.0	66.40	SCR	2" MERV 8
AHU 1-4	BCVE060	BREAK ROOM	1660	1.0	0.75	170	DIRECT	49.94	35.55	8.54	3.74	44.00/56.00	72.80/62.70	53.31/52.47	15.0	65.50	SCR	2" MERV 8
AHU 1-5	BCVE072	OPEN OFFICE SUITE	1850	1.5	0.75	160	DIRECT	50.26	37.51	8.95	2.71	44.00/56.00	72.50/62.70	53.95/52.83	15.0	66.50	SCR	2" MERV 8
AHU 1-6	BCVE024	OFFICE	500	0.5	0.75	90	DIRECT	17.47	10.77	3.03	1.77	44.00/56.00	74.10/65.10	54.55/53.46	5.0	66.10	SCR	2" MERV 8
AHU 1-7	BCVE038	CORRIDOR 03	1270	1.0	0.75	150	DIRECT	34.37	28.47	6.11	3.13	44.00/56.00	73.30/62.90	54.79/53.99	10.0	65.20	SCR	2" MERV 8
AHU 1-8	BCVE048	WOMEN'S LOUNGE	1540	1.0	0.75	120	DIRECT	45.03	34.45	7.91	4.41	44.00/56.00	72.80/62.70	53.69/52.73	15.0	66.70	SCR	2" MERV 8
AHU 1-9	BCVE048	GAME ROOM	1380	1.0	0.75	370	DIRECT	54.60	31.21	9.39	5.98	44.00/56.00	74.10/65.90	53.55/52.71	15.0	58.00	SCR	2" MERV 8
AHU 1-10	BCVE120	CO-WORK	3800	3.0	0.75	440	DIRECT	110.58	86.38	19.69	6.01	44.00/56.00	75.00/63.00	54.24/52.97	30.0	66.00	SCR	2" MERV 8
AHU 1-11	BCVE090	TRACKMAN	3240	3.0	0.75	430	DIRECT	91.78	70.15	16.44	3.15	44.00/56.00	75.60/64.00	55.88/54.50	30.0	64.00	SCR	2" MERV 8
AHU 1-12	BCVE024	GM OFFICE	500	0.5	0.75	40	DIRECT	8.68	8.42	1.56	0.38	44.00/56.00	73.30/61.70	56.92/55.78	5.0	67.00	SCR	2" MERV 8
AHU 1-13	BCVE024	PRIVATE TRACKMAN 1	1100	0.5	0.75	130	DIRECT	35.95	27.29	6.21	2.88	44.00/56.00	75.00/63.00	52.34/51.58	10.0	64.80	SCR	2" MERV 8
AHU 1-14	FCDB040	ELEC	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8
AHU 1-15	FCDB080	MDP	800	277 W	0.375	-	DIRECT	24.00	18.56	3.53	6.50	45.00/58.55	80.00/67.00	58.72/57.46	-	-	-	2" MERV 8
AHU 1-16	BCVE036	PRIVATE DINING	1400	1.0	0.75	400	DIRECT	34.85	29.23	6.29	3.30	44.00/56.00	74.40/62.50	55.32/53.94	10.0	66.20	SCR	2" MERV 8
AHU 1-17	BCVE120	LOUNGE	4320	5.0	0.75	1500	DIRECT	120.13	96.87	21.80	6.00	44.00/56.00	75.40/62.90	54.92/53.33	30.0	64.00	SCR	2" MERV 8
AHU 1-18	BCVE090	BAR	3570	3.0	0.75	1400	DIRECT	93.75	77.84	17.07	3.37	44.00/56.00	75.80/63.00	55.98/54.29	30.0	63.40	SCR	2" MERV 8
AHU 1-19	UCCAC12	BACK KITCHEN	5560	3.0	0.75	600	DIRECT	121.12	112.52	20.12	1.18	44.00/56.00	74.20/62.80	55.76/55.44	30.0	66.10	SCR	2" MERV 8
AHU 1-20	FCDB080	ELECTRICAL	800	277 W	0.375	-	DIRECT	24.00	18.56	3.53	6.50	45.00/58.55	80.00/67.00	58.72/57.46	-	-	-	2" MERV 8
AHU 1-21	FCDB040	DRY STORAGE	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8
AHU 1-22	FCDB040	TRASH	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8
AHU B1-2	BCVE090	CART BARN	3410	3.0	0.75	300	DIRECT	122.42	76.20	21.86	6.64	44.00/56.00	74.20/64.00	53.66/52.38	20.0	60.00	SCR	2" MERV 8
AHU B1-3	BCVE090	CART BARN	3410	3.0	0.75	300	DIRECT	122.42	76.20	21.86	6.64	44.00/56.00	74.20/64.00	53.66/52.38	20.0	60.00	SCR	2" MERV 8
AHU B1-4	BCVE072	WINE CELLAR	1850	1.5	0.75	460	DIRECT	50.26	37.51	8.95	2.71	44.00/56.00	72.50/62.70	53.95/52.83	15.0	66.50	SCR	2" MERV 8
AHU B1-5	FCDB040	MECH/ELEC	400	152 W	0.375	-	DIRECT	12.00	9.30	1.67	5.88	45.00/59.28	80.00/67.00	58.66/57.46	-	-	-	2" MERV 8

SPECIFICATION NOTES (APPLY TO ALL UNITS):
A. COOLING CAPACITY BASED ON DESIGN (DB & MCBW) (DP & MCBW) (WB & MCBW) LISTED.
B. MINIMUM CAPACITIES SCHEDULED ABOVE INCLUDE DE-RATING FOR ASSOCIATED PIPING AND SYSTEM DESIGN.
C. UNITS SHALL HAVE DC ECM FAN MOTORS OR VFD DRIVEN MOTORS.
D. UNITS SHALL BE CAPABLE OF OPERATING INDEPENDENT OF AUXILIARY PRE-HEAT OR PRE-COOLING COILS WHEN THE ENTERING CONDITIONS ARE ABOVE 23°F AND BELOW 125°F DRY BULB.
E. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILS.
F. ESP DOES NOT INCLUDE COIL, FILTER, CASING, AND ACCESSORY LOSSES.
G. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED, AND ROUTED PER PLANS AND DETAILS.
H. IN DEHUMIDIFICATION MODE, THE UNIT SHALL COOL AIR TO 55°F OR LOWER BEFORE REHEATING THE AIR TO 70°F.
I. UNITS SHALL BE EQUIPPED WITH CONDENSATE OVERFLOW PROTECTION VIA A SAF-T-SWITCH INSTALLED IN THE SECONDARY CONDENSATE DRAIN CONNECTION OR PRIMARY DRAIN PAN.
J. HORIZONTAL AND CONCEALED UNITS SHALL BE PROVIDED WITH A HINGED AND GASKETED CEILING ACCESS PANEL FOR MAINTENANCE AND REMOVAL OF UNIT.
K. ENTHALPY SENSOR IN THE INLET AIRSTREAM SHALL CONTROL THE UNIT FOR DEHUMIDIFICATION OR HEATING MODE.
L. UNITS SHALL BE EQUIPPED WITH A CLASS 1, LOW LEAKAGE OUTSIDE AIR SHUTOFF DAMPER WITH BLADE AND JAMB SEALS EITHER INTEGRAL TO THE UNIT OR IN THE OUTWORK.
M. PROVIDE MANUFACTURER STARTUP AND REPORT.
N. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE CALCULATED AVAILABLE FAULT CURRENT AT THE PANELBOARD SERVING MULTI-MOTOR AND COMBINATION LOAD EQUIPMENT OR THE CALCULATED AVAILABLE FAULT CURRENT INDICATED AT THE EQUIPMENT. THIS FAULT CURRENT VALUE SHALL BE UTILIZED TO DETERMINE THE CORRECT SHORT CIRCUIT CURRENT RATING (SCCR) FOR THE EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING OR THE CALCULATED FAULT CURRENT.

ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE. IN ADDITION, PROVIDE MANUFACTURER RECOMMENDED ACCESSORIES FOR SAFE AND PROPER OPERATION):
1. SMOKE DETECTOR MOUNTED IN SUPPLY AIRSTREAM
2. FILTER BOX WITH 2" MERV 8 FILTER
3. DISCONNECT SWITCH FURNISHED BY MECHANICAL AND INSTALLED BY ELECTRICAL
4. MINIMUM 4-ROW CHILLED WATER COIL
5. 1" MATTIE FACE INSULATION
6. FIELD INSTALLED SUPPLY AIR TEMPERATURE SENSOR
7. DIGITAL DISPLAY THERMOSTAT
8. BACNET IP CONTROLLER INTERLOCK WITH BAS
9. CONDENSATE OVERFLOW SENSOR
10. AUXILIARY DRAIN PAN
11. NEOPRENE ISOLATORS
12. CONDENSATE PUMP LOCATED IN AUXILIARY DRAIN PAN
13. ECM MOTORS WITH SPEED CONTROL
SELECTIONS BASED ON FRAME
EQUAL PRODUCTS: JCI, CARRIER, OR APPROVED EQUAL.

HVAC VRF DOAS UNITS																			
INDOOR UNIT TAG	OUTDOOR UNIT TAG	MANUFACTURER	MODEL NO. (INDOOR/OUTDOOR)	AREA SERVED	SUPPLY FAN CFM	ESP (IN WG)	FAN POWER (HP)	COOLING				HEATING				FILTERS MERV RATING	WEIGHT (LBS)	ACCESSORIES	
								MIN TOTAL CAP (MBH)	MIN SENS CAP (MBH)	MIN HGR CAP (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	MIN TOTAL CAP (MBH)	EAT (°F)				LAT (°F)
DOAS IDU-1	DOAS ODU-1	LG	ARN203/ARUMH44	MEZZANINE 3	1900	1.5	1.0	131.3	79.2	30.0	93.9	73.9	51.2	125.5	17.1	75.2	364	1,2,3,4,5,6	
DOAS IDU-2	DOAS ODU-2	LG	ARN203/ARUMH44	MEZZANINE 2	1900	1.5	1.0	131.3	79.2	30.0	93.9	73.9	51.2	125.5	17.1	75.2	364	1,2,3,4,5,6	
DOAS IDU-3	DOAS ODU-3	LG	ARN203/ARUMH44	MEZZANINE 1	1900	1.5	1.0	131.3	79.2	30.0	93.9	73.9	51.2	125.5	17.1	75.2	364	1,2,3,4,5,6	
DOAS IDU-4	DOAS ODU-4	LG	ARN203/ARUMH44	MEZZANINE 1	2000	1.5	1.0	131.3	79.2	30.0	93.9	73.9	51.2	125.5	17.1	75.2	364	1,2,3,4,5,6	
SPECIFICATION NOTES (APPLY TO ALL UNITS):																			
A. COOLING CAPACITY BASED ON DESIGN DB & MOWB (DP & MCOB) (WB & MCOB) LISTED AND A PROJECT ELEVATION OF XXXXX.																			
B. MINIMUM CAPACITIES SCHEDULED ABOVE INCLUDE DE-RATING FOR ASSOCIATED PIPING AND SYSTEM DESIGN.																			
C. UNITS SHALL HAVE DO ECM FAN MOTORS OR VFD DRIVEN MOTORS.																			
D. UNITS SHALL BE CAPABLE OF OPERATING INDEPENDENT OF AUXILIARY PRE-HEAT OR PRE-COOLING COILS WHEN THE ENTERING CONDITIONS ARE ABOVE 23°F AND BELOW 125°F DRY BULB.																			
E. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILS.																			
F. ESP DOES NOT INCLUDE COIL, FILTER, CASING, AND ACCESSORY LOSSES.																			
G. PRIMARY CONDENSATE SHALL BE SIZED, TRAPPED, AND ROUTED PER PLANS AND DETAILS.																			
H. IN DEHUMIDIFICATION MODE, THE UNIT SHALL COOL AIR TO 55°F OR LOWER BEFORE REHEATING THE AIR TO 70°F.																			
I. UNITS SHALL BE EQUIPPED WITH CONDENSATE OVERFLOW PROTECTION VIA A SAF-T-SWITCH INSTALLED IN THE SECONDARY CONDENSATE DRAIN CONNECTION OR PRIMARY DRAIN PAN.																			
J. HORIZONTAL AND CONCEALED UNITS SHALL BE PROVIDED WITH A HINGED AND GASKETED CEILING ACCESS PANEL FOR MAINTENANCE AND REMOVAL OF UNIT.																			
K. ENTHALPY SENSOR IN THE INLET AIRSTREAM SHALL CONTROL THE UNIT FOR DEHUMIDIFICATION OR HEATING MODE.																			
L. UNITS SHALL BE EQUIPPED WITH A CLASS 1 LOW-LEAKAGE OUTSIDE AIR SHUTOFF DAMPER WITH BLADE AND JAMB SEALS EITHER INTEGRAL TO THE UNIT OR IN THE OUTDOOR/OK.																			
M. PROVIDE MANUFACTURER STARTUP AND REPORT.																			
N. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE CALCULATED AVAILABLE FAULT CURRENT AT THE PANELBOARD SERVING MULTIMOTOR AND COMBINATION LOAD EQUIPMENT OR THE CALCULATED AVAILABLE FAULT CURRENT INDICATED AT THE EQUIPMENT. THIS FAULT CURRENT VALUE SHALL BE UTILIZED TO DETERMINE THE CORRECT SHORT CIRCUIT CURRENT RATING (SCCR) FOR THE EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING OR THE CALCULATED FAULT CURRENT.																			
O. SUSPENDED WITH MINIMUM 1" DEFLECTION SPRING VIBRATION TYPE HANGERS.																			
ACCESSORIES (THIS LIST IS NOT ALL INCLUSIVE) - PROVIDE MANUFACTURER RECOMMENDED ACCESSORIES FOR SAFE AND PROPER OPERATION:																			
1. SMOKE DETECTOR MOUNTED IN SUPPLY AIRSTREAM																			
2. FILTER BOX WITH MERV 13 FILTERS																			
3. DISCONNECT SWITCH FURNISHED BY MECHANICAL AND INSTALLED BY ELECTRICAL																			
4. CONDENSATE PUMP																			
5. FOR PROTECTION FROM SEA COAST ENVIRONMENT, PROVIDE A FACTORY APPLIED FLEXIBLE POLYMER E-COATING ON THE EVAPORATOR AND HOT GAS REHEAT COILS																			
6. AIRFLOW MONITORING STATION																			
SELECTIONS BASED ON MANUFACTURER INDICATED.																			
EQUAL PRODUCTS: LG, DAIKIN, TRANE/MTSUSHI, CARRIER, AND TOSHIBA CARRIER.																			

MECHANICAL VENTILATION SUMMARY - AHU 1-1													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
180	Pro Shop	1851	0.12	222	15	28	7.5	208	430	0.8	538	2330	0.23
Totals		1851		222		28		208	430		538	2330	0.23
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

MECHANICAL VENTILATION SUMMARY - AHU 1-2													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
150	Mens Lounge	655	0	0	0	0	0	0	0	0.8	0	2330	0.00
161	Mens Locker	617	0	0	0	0	0	0	0	0.8	0	750	0.00
Totals		1272		0		0		0	0		0	3080	0.00

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-3													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
141	Conference	251	0.06	15	50	13	5	63	78	0.8	97	675	0.14
Totals		251		15		13		63	78		97	675	0.14
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

MECHANICAL VENTILATION SUMMARY - AHU 1-4													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100 D.1	Laundry Room	78	0.12	9	29	2	7.5	12	21	0.8	26	85	0.31
100 E.1	Mail Room	85	0.06	5	5	0	5	2	7	0.8	9	55	0.16
170	Break Room	480	0.06	29	30	14	5	72	101	0.8	126	1380	0.09
171	Vestibule	115	0.06	7	0	0	0	0	7	0.8	9	50	0.17
Totals		758		50		16		86	136		170	1870	0.11

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-5													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
140	Open Office Suite	773	0.05	46	5	4	5	19	66	0.8	82	1840	0.04
Totals		773		46		4		19	66		82	1840	0.04

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-6													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
140 A	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
140 B	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
140 C	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
140 D	Office	137	0.06	8	5	1	5	3	12	0.8	15	125	0.12
Totals		548		33		3		14	47		58	500	0.12

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-7													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100 E	Pro Shop Lobby	574	0.08	34	19	6	5	29	63	0.8	79	650	0.12
100 D	Condo B3	932	0.08	56	0	0	0	0	56	0.8	70	615	0.11
Totals		1506		90		6		29	119		149	1265	0.12

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-8													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
150	Women's Lounge	657	0	0	0	0	0	0	0	0.8	0	800	0.00
151	Women's Locker	429	0	0	0	0	0	0	0	0.8	0	670	0.00
Totals		429		0		0		0	0		0	1470	0.00

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-9													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction	
131	Game Room	880	0.18	158	20	18	7.5	132	290	0.8	363	1380	0.26
Totals		0		0		0		0			363	1380	0.26

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-10													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction	
130 A	Storage	122	0.12	15	0	0	0	15	0.8	18	100	0.18	
130 B	Phone Booth	65	0.06	4	5	0	5	6	0.8	5	50	0.14	
130 C	Phone Booth	58	0.06	3	5	0	5	1	0.8	6	50	0.12	
130 D	Restroom	39	0	0	0	0	0	0	0.8	0	50	0.00	
109	Coffee Bar	1052	0.06	63	30	32	5	156	0.8	276	2070	0.13	
109	Co-Work	1224	0.06	73	5	6	5	31	0.8	104	1725	0.08	
Totals		2960		159		38		191		350	438	4045	0.11

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-11													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
106	Trackman	1702	0.06	102	10	17	5	85	187	0.8	234	2560	0.09
107	Private Trackman 2	517	0.06	31	10	5	5	26	57	0.8	71	640	0.11
Totals		2219		133		22		111	244		305	3200	0.10
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

MECHANICAL VENTILATION SUMMARY - AHU 1-12													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
140E	GM Office	181	0.08	11	5	4	5	20	31	0.8	39	500	0.08
Totals		181		11		4		20	31		39	500	0.08
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

MECHANICAL VENTILATION SUMMARY - AHU 1-14													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100C.2	Elec	89	0	0	0	0	0	0	0	0.8	0	400	0.00
Totals		89		0		0		0	0		0	400	0.00
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

MECHANICAL VENTILATION SUMMARY - AHU 1-15													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100C.1	MDF	76	0	0	0	0	0	0	0	0.8	0	800	0.00
Totals		76		0		0		0	0		0	800	0.00

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-16													
Room	Description	Area (ft ²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
103	Private Dining	450	0.18	81	70	32	7.5	236	317	0.8	397	1180	0.34
Totals		450		81		32		236	317		397	1180	0.34
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													

MECHANICAL VENTILATION SUMMARY - AHU 1-17													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
100A	Corridor 02	785	0.06	47	0	0	0	0	47	0.8	59	400	0.15
100	Entry Lobby	267	0.08	16	10	3	5	13	29	0.8	37	400	0.09
101	Lounge	321	0.18	58	70	22	7.5	168	225	0.8	283	1100	0.25
102	Dining	1025	0.18	185	70	72	7.5	538	723	0.8	903	1800	0.56
104	Bar	180	0.18	32	100	18	7.5	135	167	0.8	209	600	0.23
Totals		785		338		115		855	1193		1491	4400	0.34

Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-18													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
101	Lounge	321	0.18	58	70	22	7.5	168	225	0.8	283	810	0.55
102	Dining	1025	0.18	185	70	72	7.5	538	723	0.8	903	1275	0.71
104	Bar	180	0.18	32	100	18	7.5	135	167	0.8	209	1275	0.16
Totals		1526		275		112		842	1116		1395	3860	0.46

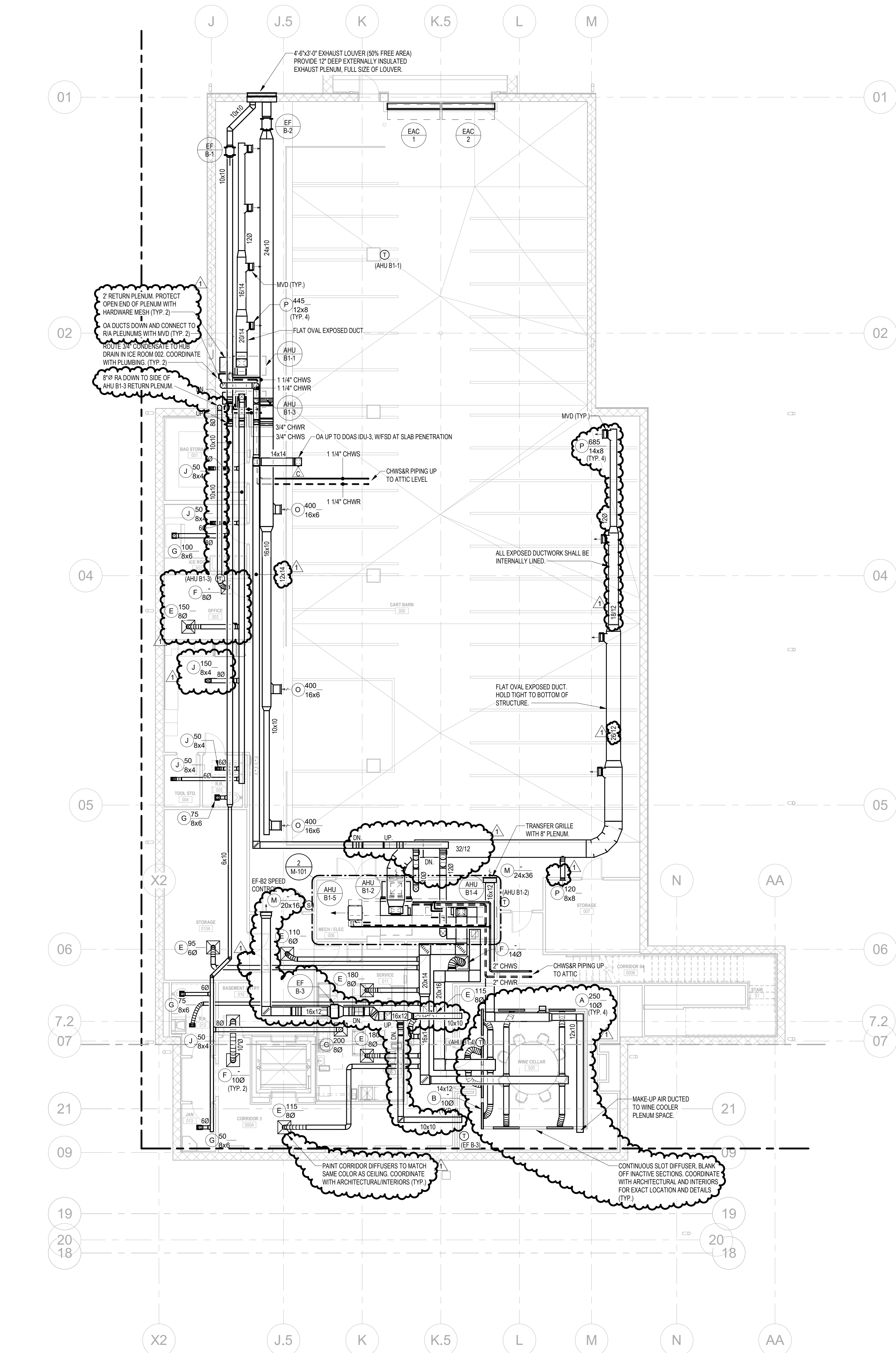
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1

MECHANICAL VENTILATION SUMMARY - AHU 1-19													
Room	Description	Area (ft²)	Area Outdoor Air Rate per Table 403.3.1.1	Area Outdoor Air	Occupant Load rate per Table 403.3.1.1 (People/1000 s.f.)	Occupancy	Occupant Outdoor Air Rate per Table 403.3.1.1	Occupant Outdoor Air	Breathing Zone Outdoor air	Zone Air Distribution Effectiveness	Zone Outdoor Air	Supply Air Design	Outdoor Air Fraction
110A	Corridor	158	0.06	9	0	0	0	0	9	0.8	12	510	0.02
114	Vestibule	57	0.06	3	0	0	0	0	3	0.8	4	50	0.08
115	Chief's Office	179	0.06	11	5	1	5	4	15	0.8	19	250	0.08
116	Storage	113	0.12	14	0	12	0	14	17	0.8	24	177	0.17
111	Black Kitchen*	919	0.06	110	20	18	7.5	138	245	0.8	310	2960	0.10
110	Front Kitchen*	598	0.12	68	0	4	7.5	180	208	0.8	228	1614	0.14
Totals		3231			231	30		247	477		597	5660	0.11
Based on 2020 Florida Mechanical Code Chapter 4, Ventilation, Table 403.3.1.1													
*Kitchens are supplied with 0.07 cfm/kitchen exhaust													

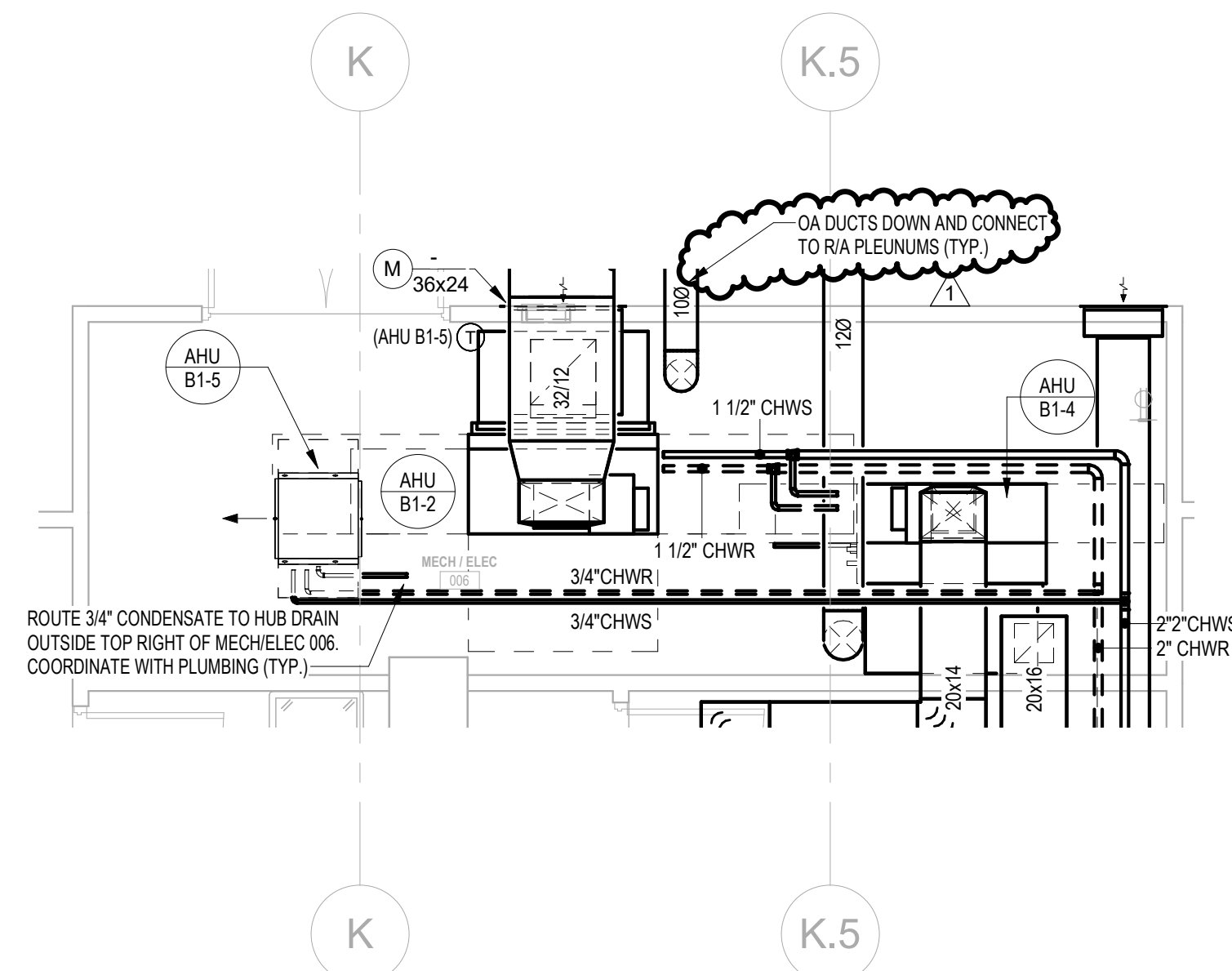
Zone Checksums											
By JSE											
COOLING COIL PEAK				CLOG SPACE PEAK				HEATING COIL PEAK			
Peak at Time: Outside Air: 7/1/18				Moist: 6/1/18				Moist: Heating Design			
Outside Air: 7/1/18				Outside Air: 7/1/18				Outside Air: 7/1/18			
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22038
CONSTRUCTION DOCUMENTS
8/21/2023

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1 OVERALL BASEMENT PLAN - HVAC
Scale: 1/8" = 1'-0"



2 ENLARGED MECH/ELEC ROOM - HVAC
Scale: 1/4" = 1'-0"

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CLUBHOUSE

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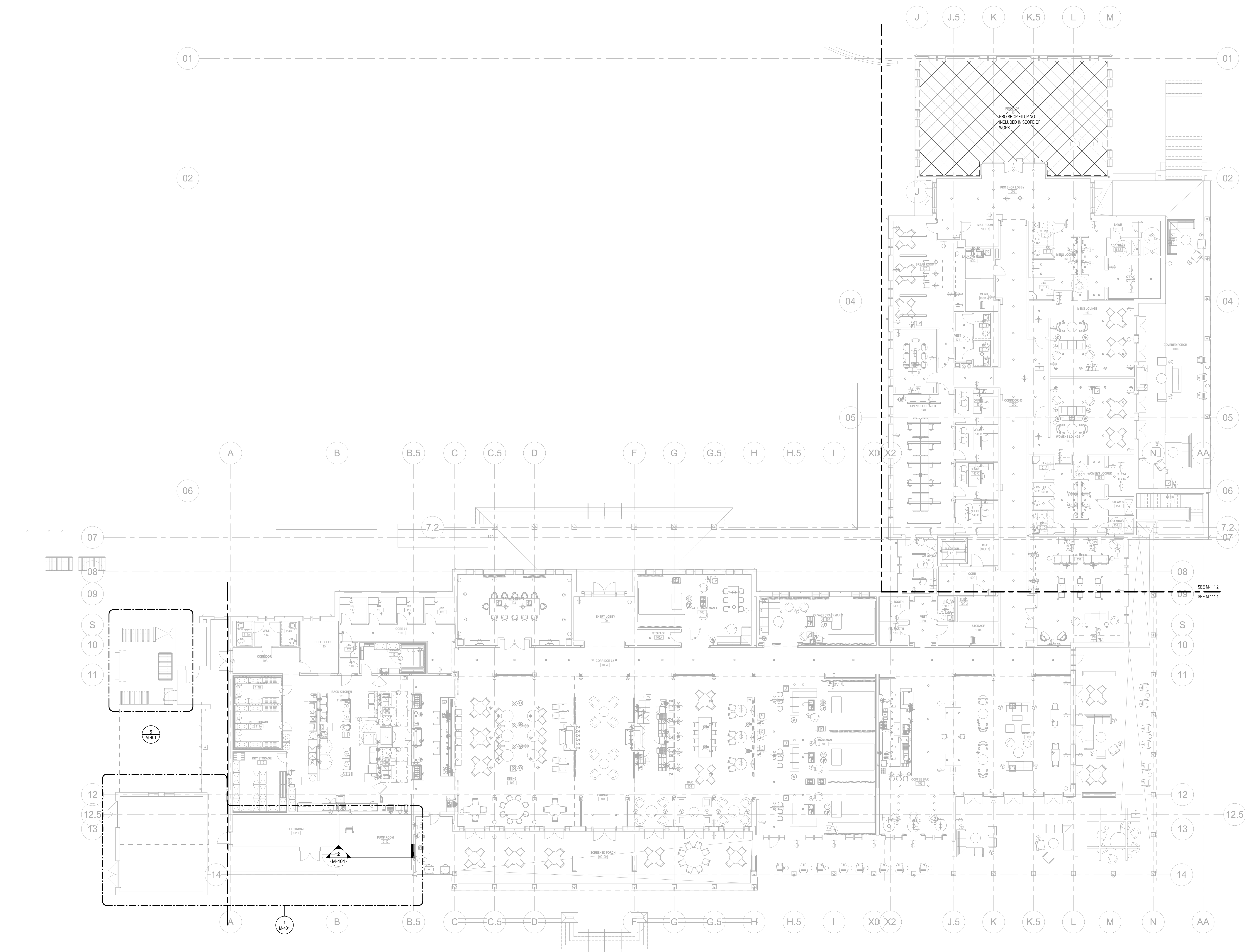
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No.	Description	Date
1	REVISION 1	08/21/23

BASEMENT FLOOR
PLAN - HVAC

JSE Jordan & Skala Engineers
4275 Shackelford Road, Suite 200 • Norcross, GA 30093
p. 770.447.5547 • f. 770.448.0262
Project Number: 22010703 Drawn By: STH Checked By: SP

PROJECT NUMBER 22038
DATED 8/21/2023

M-101

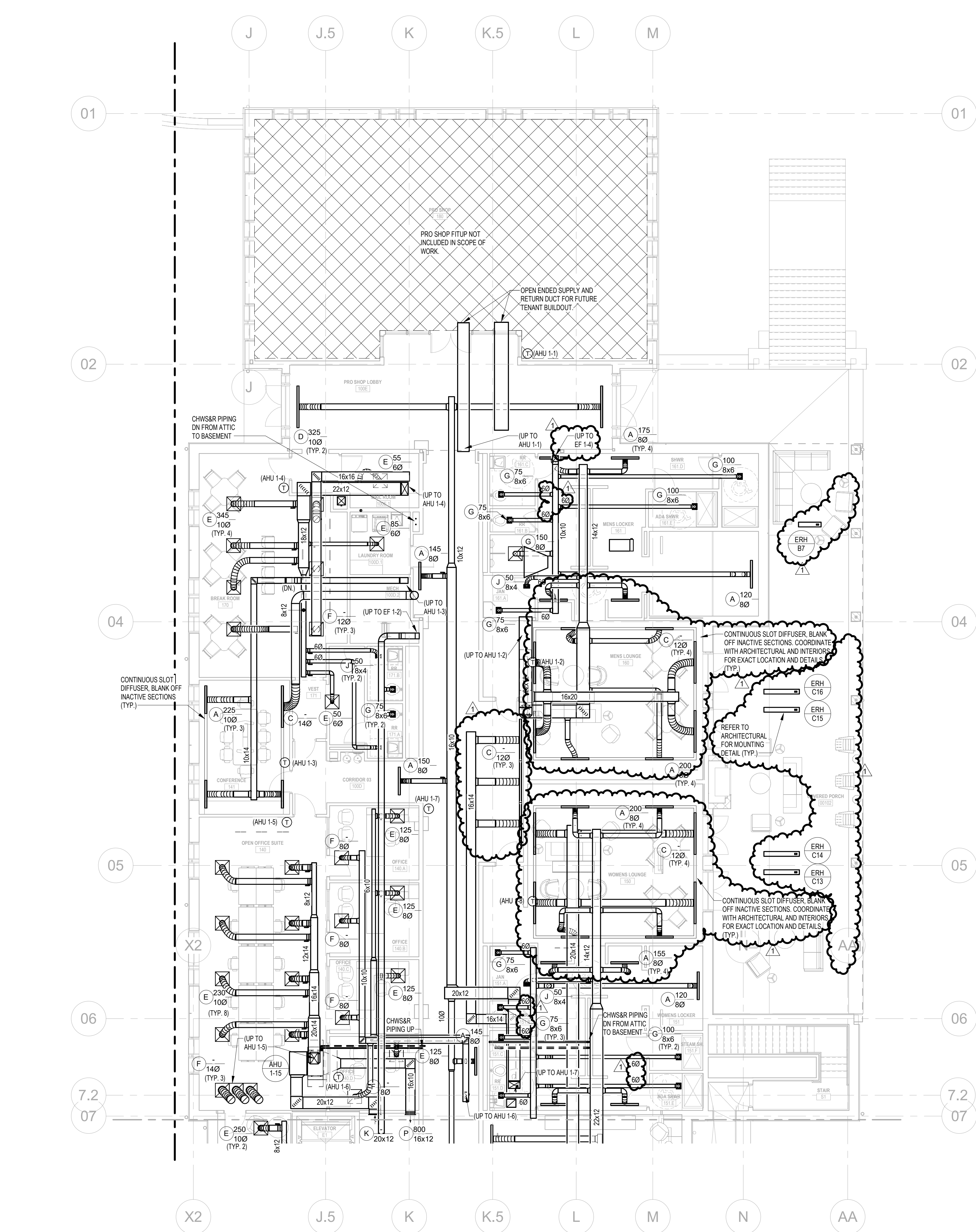


1 OVERALL FLOOR PLAN - HVAC
Scale: 3/32" = 1'-0"



Checked By: SP





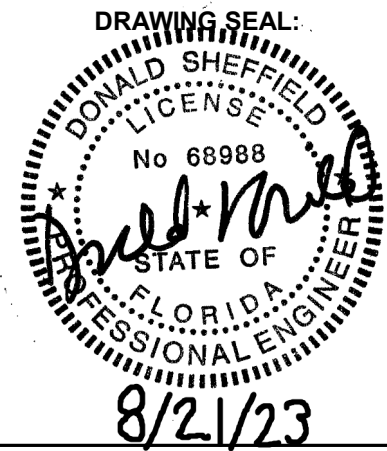
1 GROUND FLOOR PLAN - HVAC B
Scale: 1/8" = 1'-0"



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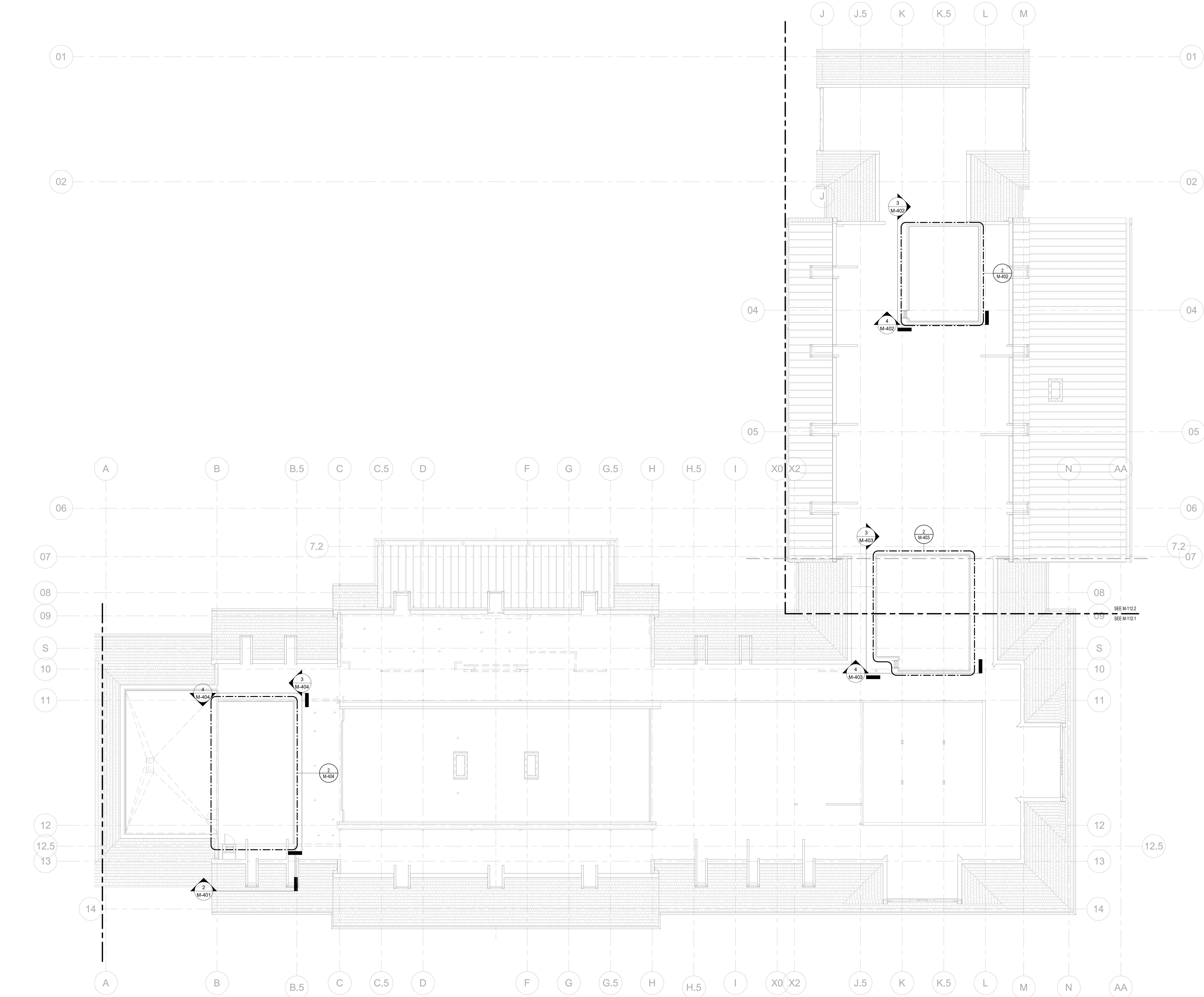
100 TYRON CIRCLE BUILDING 1, TALLAHASSEE, FL 32309

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GROUND FLOOR
PLAN - HVAC - B

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CONSTRUCTION DOCUMENTS
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1 OVERALL ATTIC PLAN - HVAC
Scale: 3/32" = 1'-0"

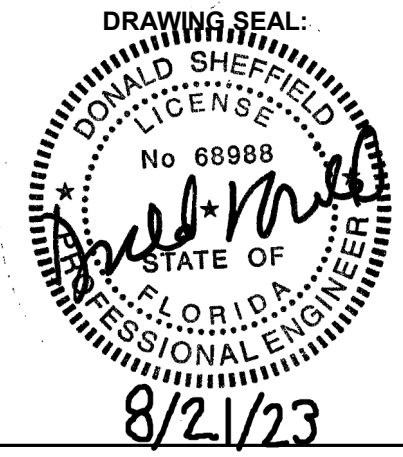
JSE Jordan & Skala Engineers
4275 Shackelford Road, Suite 200 • Norcross, GA 30093
p. 770.447.5547 • f. 770.448.0262
Project Number: 22010703 Drawn By: STH Checked By: SP



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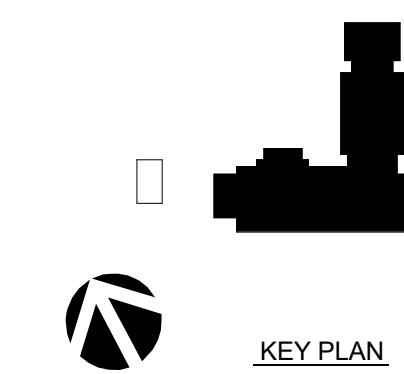
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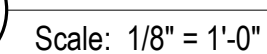
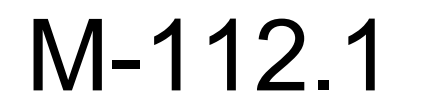


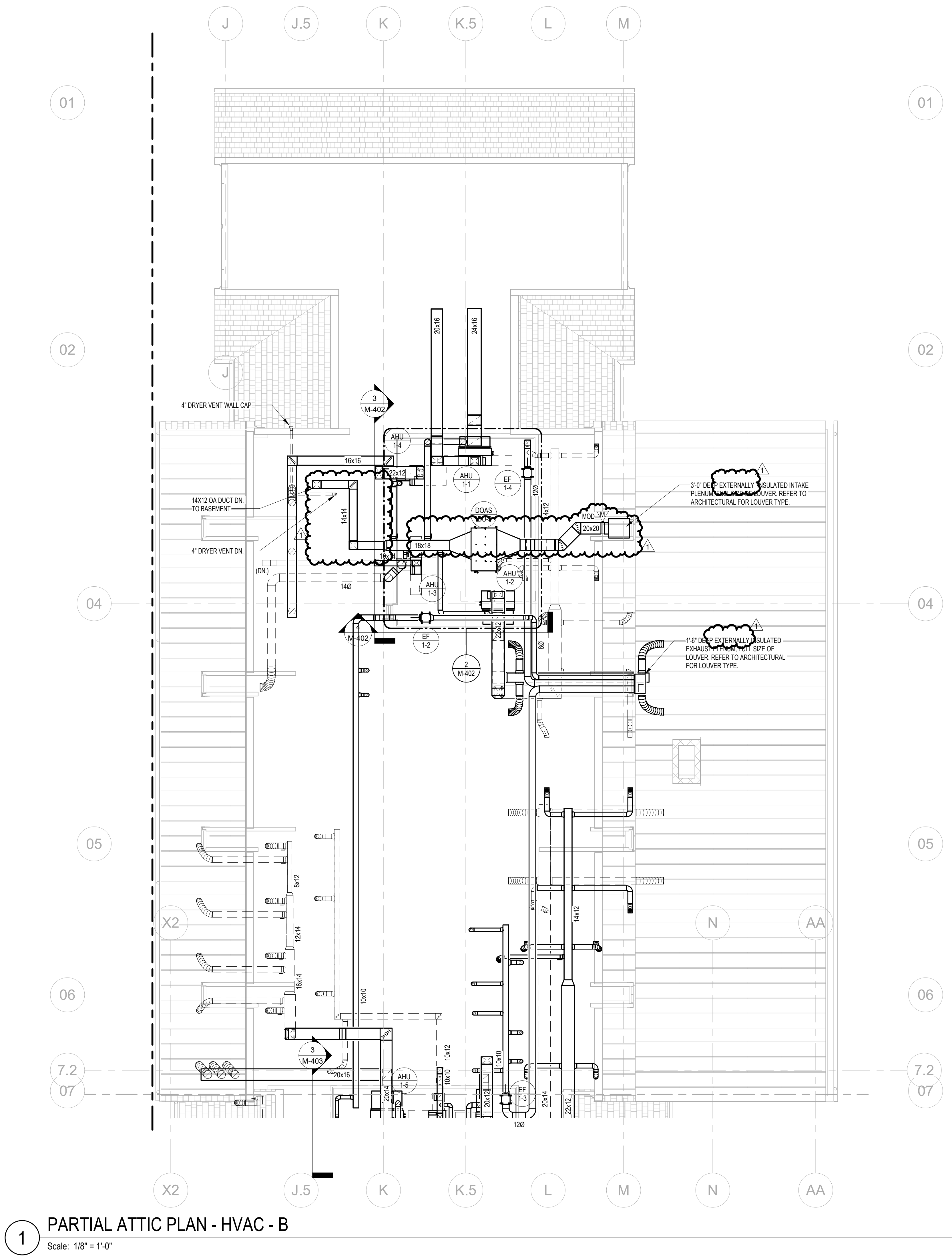
REVISIONS:		
No.	Description	Date

ATTIC PLAN -
HVAC

PROJECT NUMBER 22038
DATED 8/21/2023

M-112





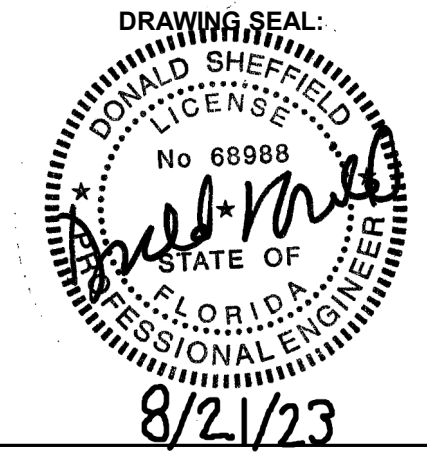
1 PARTIAL ATTIC PLAN - HVAC - B
Scale: 1/8" = 1'-0"



ARCHITECTS

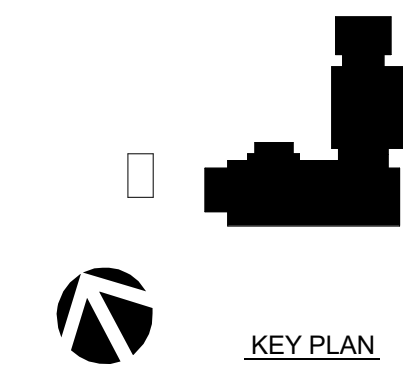
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No.	Description	Date
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ATTIC PLAN -
HVAC - B

PROJECT NUMBER	22038
DATED	8/21/2023

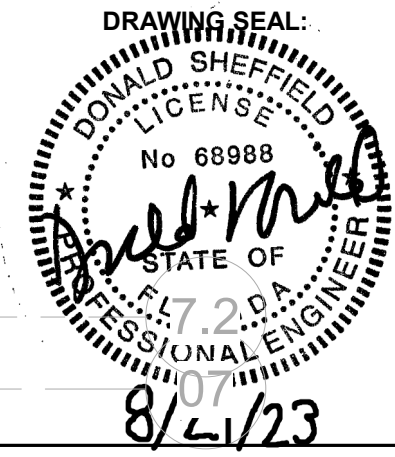
M-112.2

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No.	Description	Date
1	REVISION 1	08/21/23

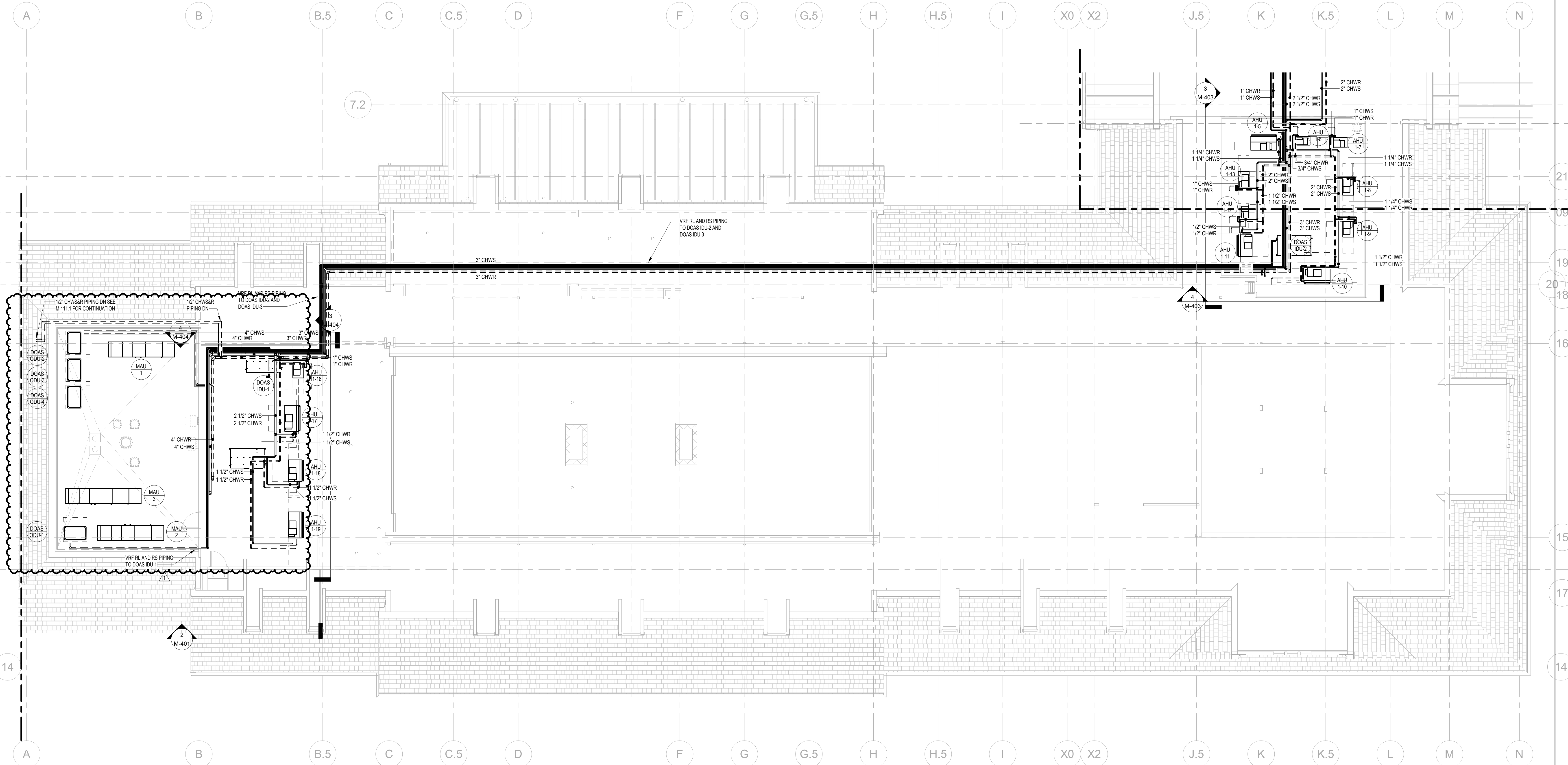
ATTIC PLAN -
HVAC - PIPING - A

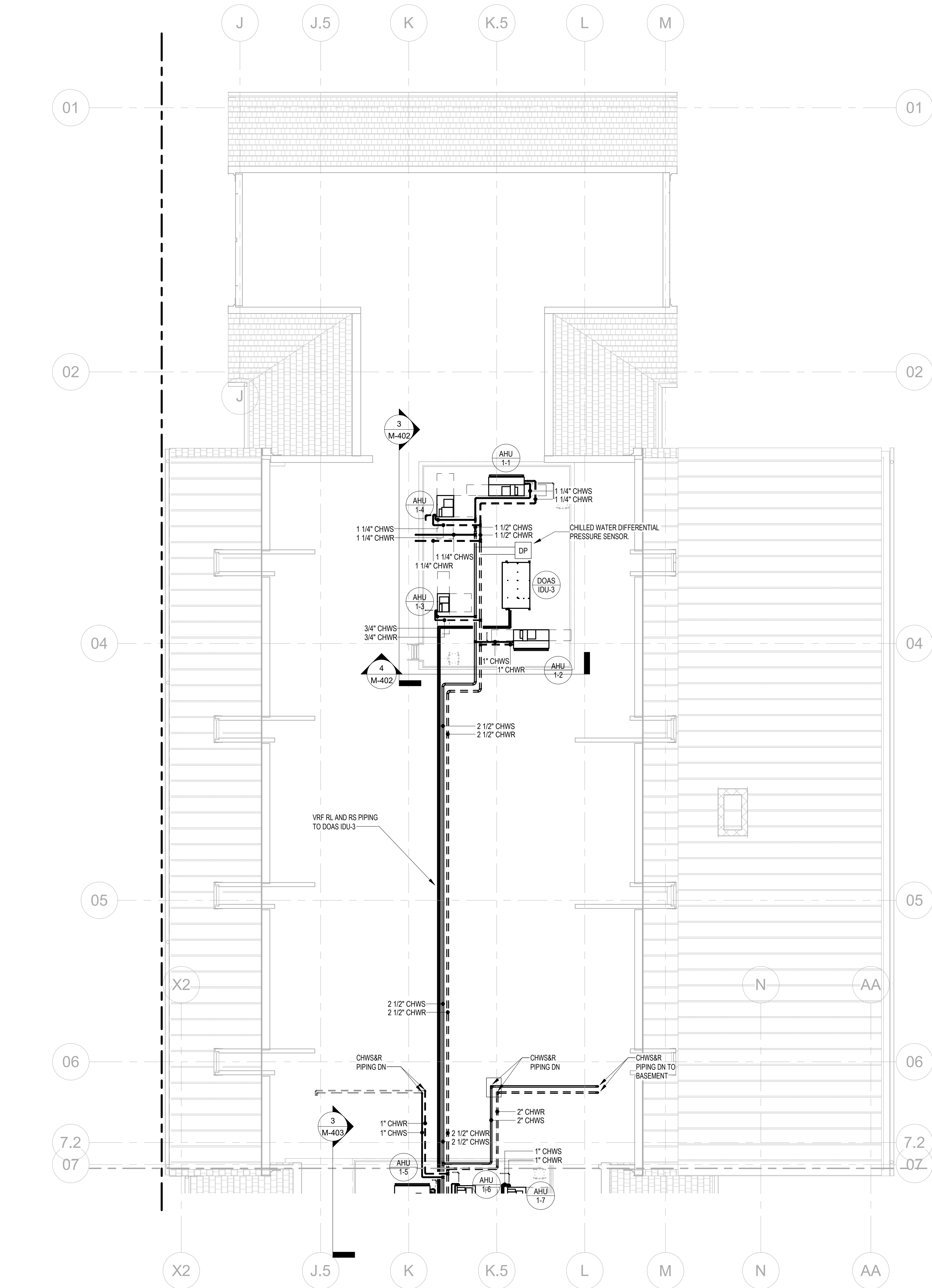
PROJECT NUMBER	22038
DATED	8/21/2023

M-112.3

JSE Jordan & Skala Engineers
4275 Shackelford Road, Suite 200 • Norcross, GA 30093
p. 770.447.5547 • f. 770.448.0262
Project Number: 22010703 Drawn By: STH Checked By: SP

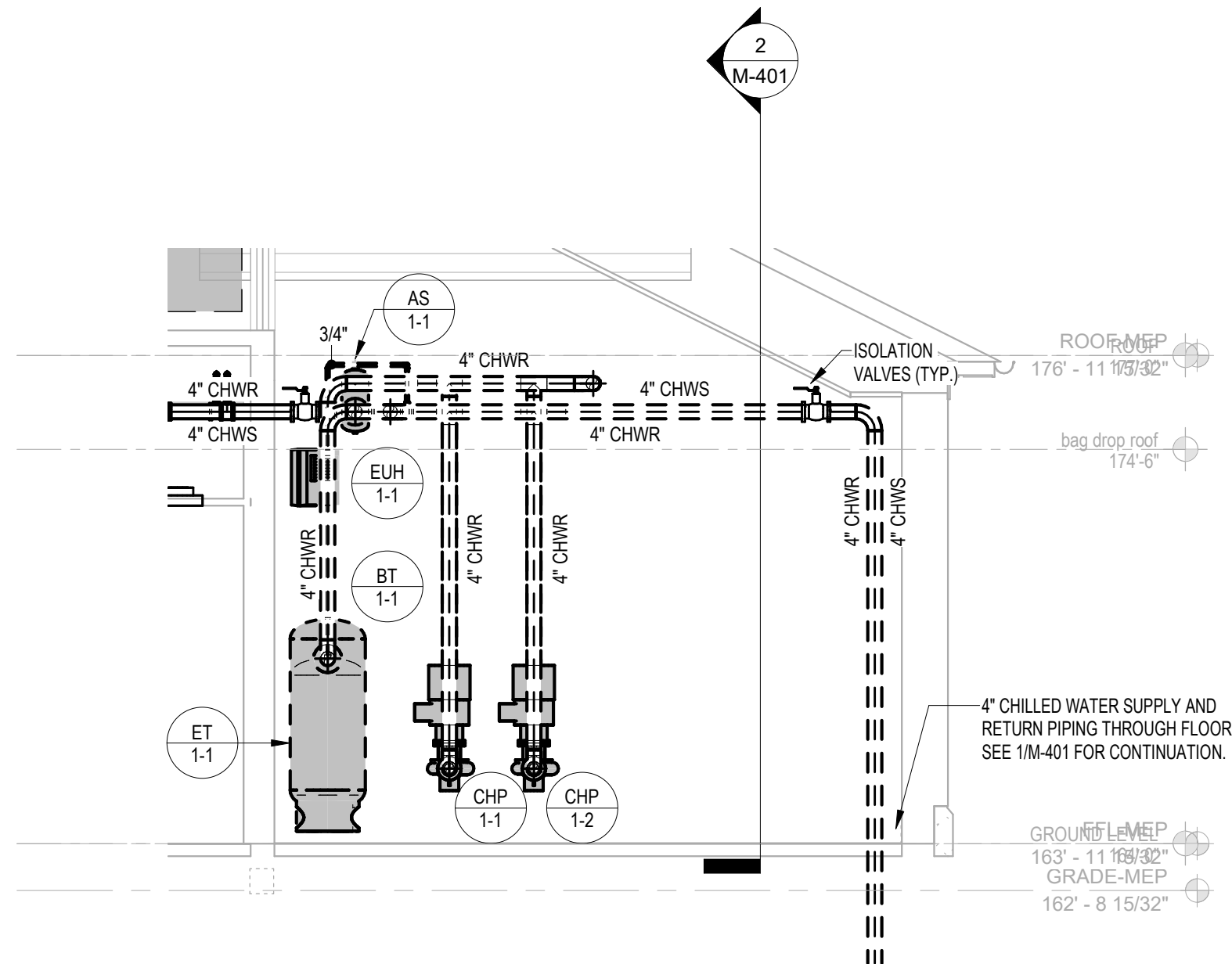
1 PARTIAL ATTIC PLAN - HVAC PIPING A
Scale: 1/8" = 1'-0"



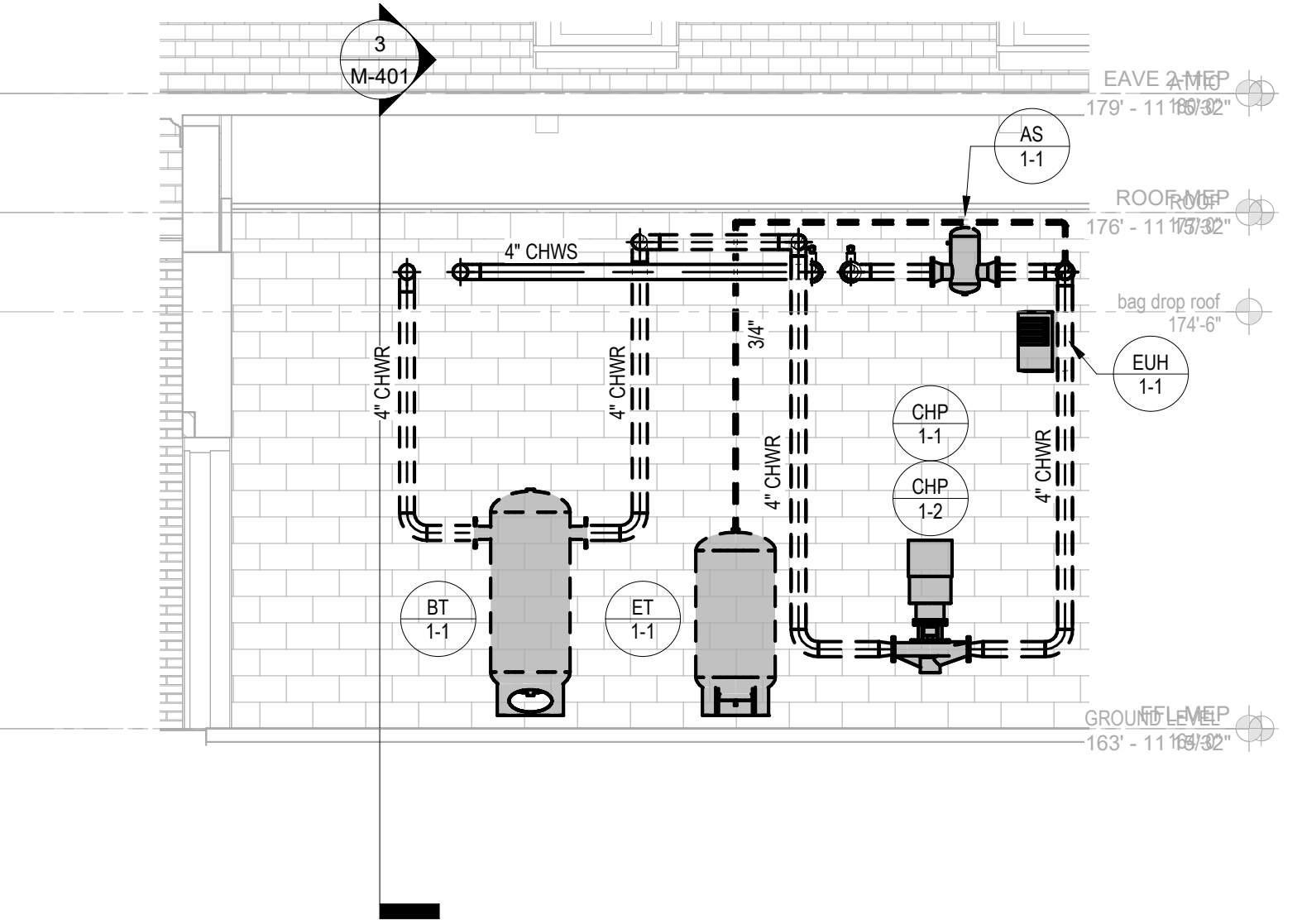


1 PARTIAL ATTIC PLAN - HVAC PIPING B
Scale: 1/8" = 1'-0"

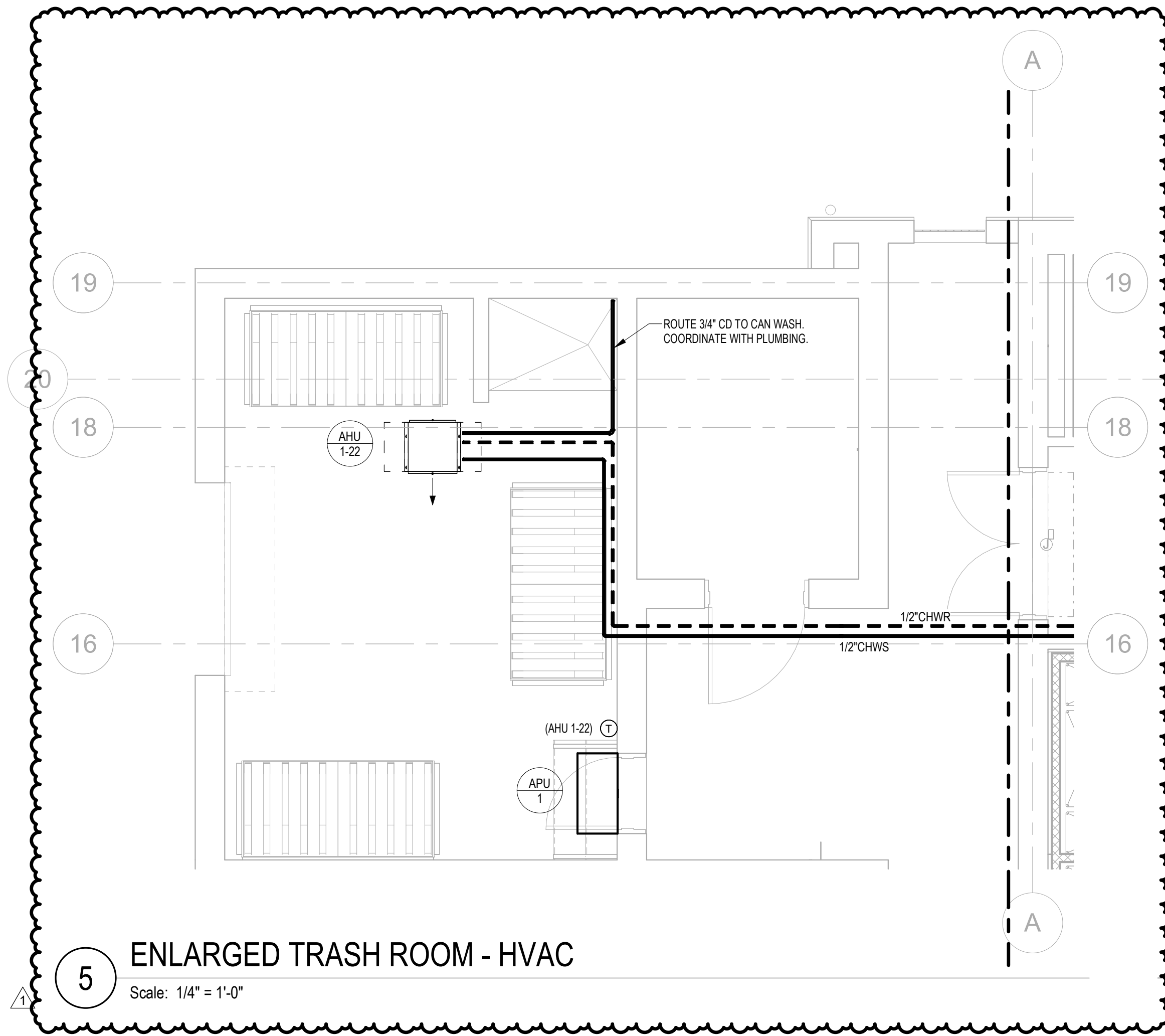
REVISIONS:		
No.	Description	Date



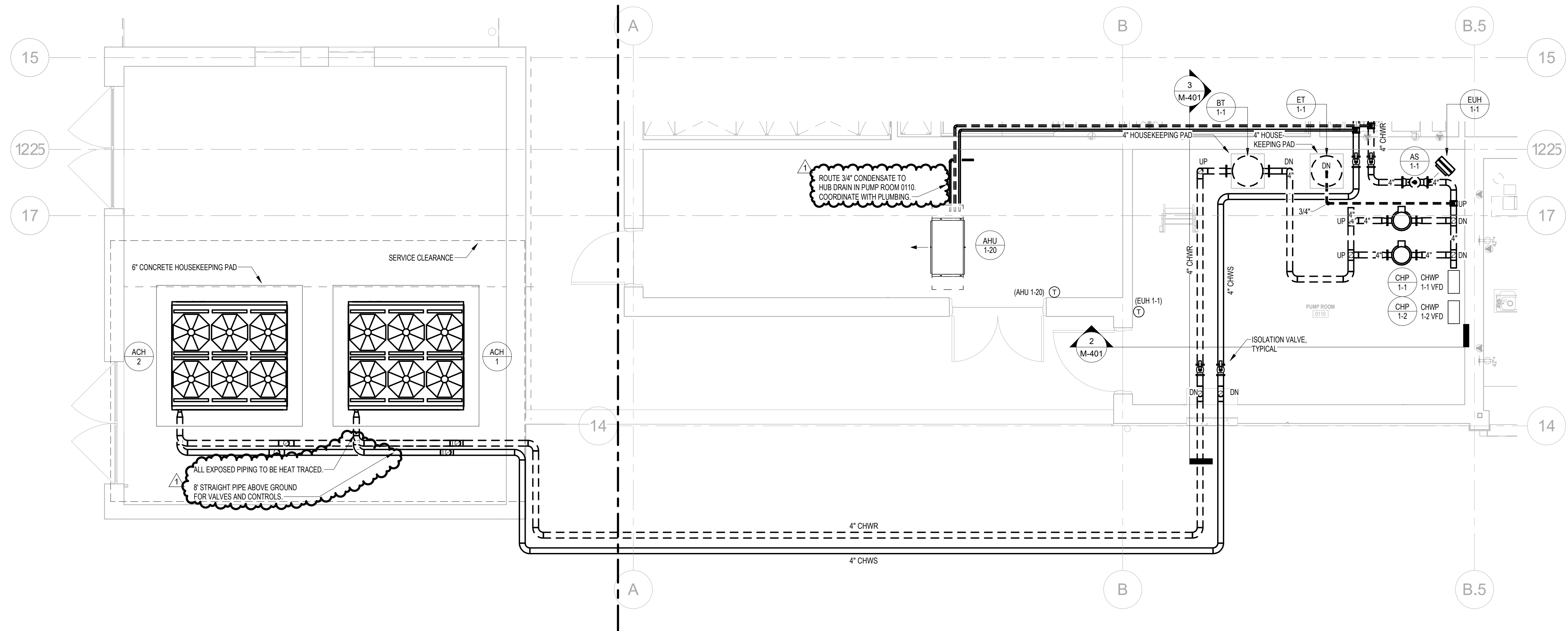
3 HVAC PUMP ROOM SECTION 2
Scale: 1/4" = 1'-0"



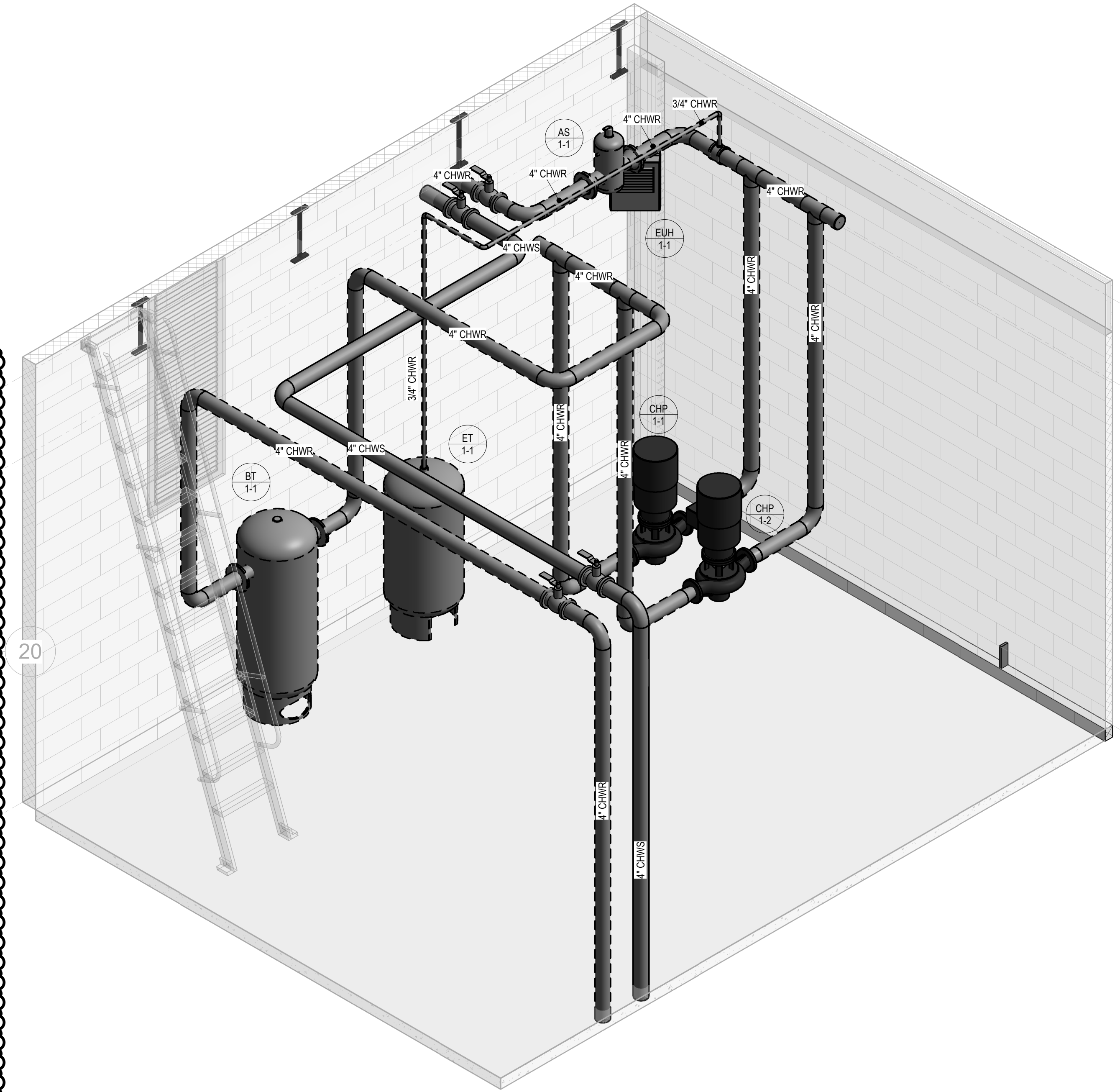
2 HVAC PUMP ROOM SECTION 1
Scale: 1/4" = 1'-0"



5 ENLARGED TRASH ROOM - HVAC
Scale: 1/4" = 1'-0"



1 ENLARGED PUMP ROOM/CHILLER YARD PLAN - HVAC
Scale: 1/4" = 1'-0"



PUMP ROOM 3D FLOOR PLAN - HVAC
SCALE: NTS

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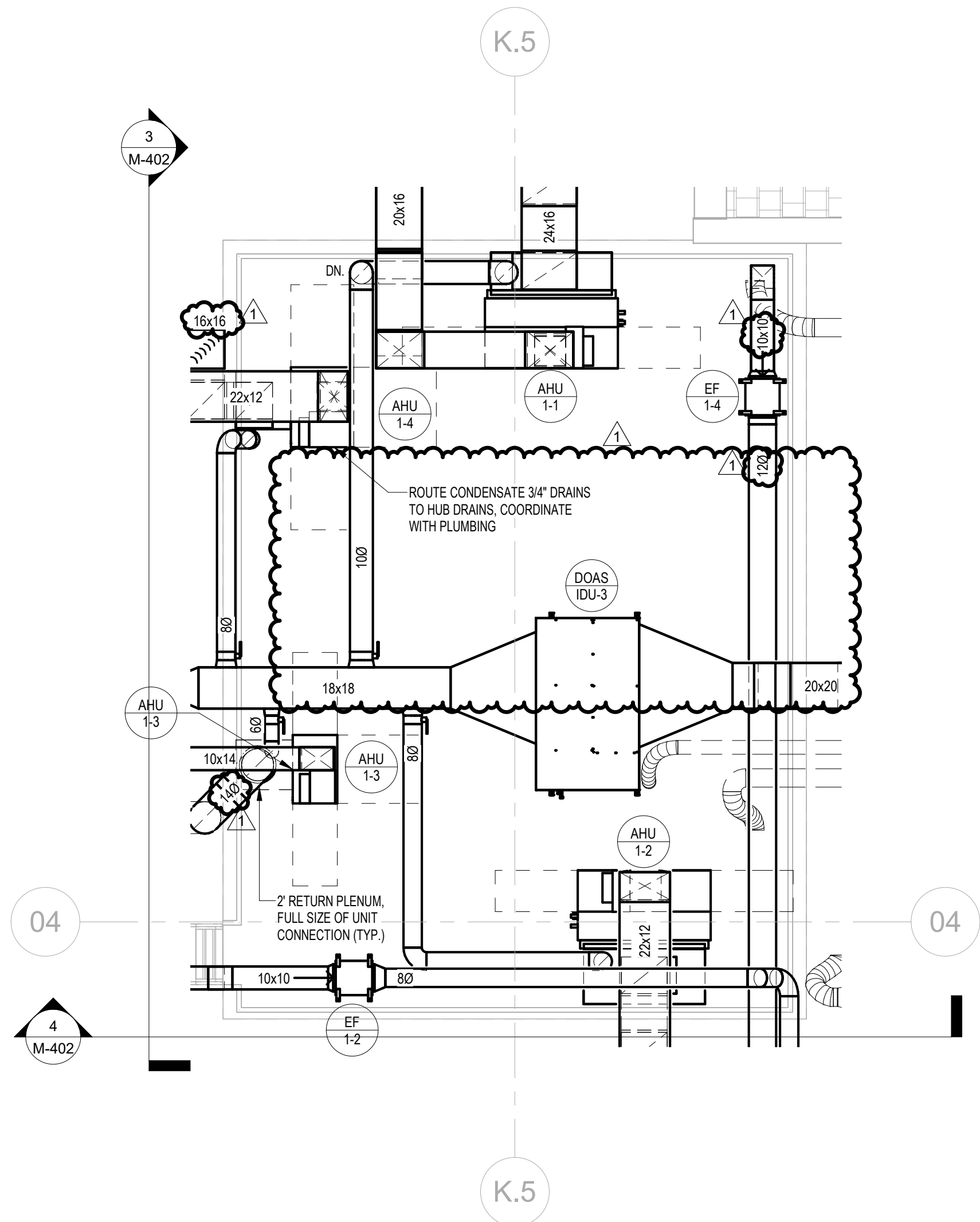
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1	REVISION 1	08/21/23

ENLARGED PUMP
ROOM PLAN -
HVAC

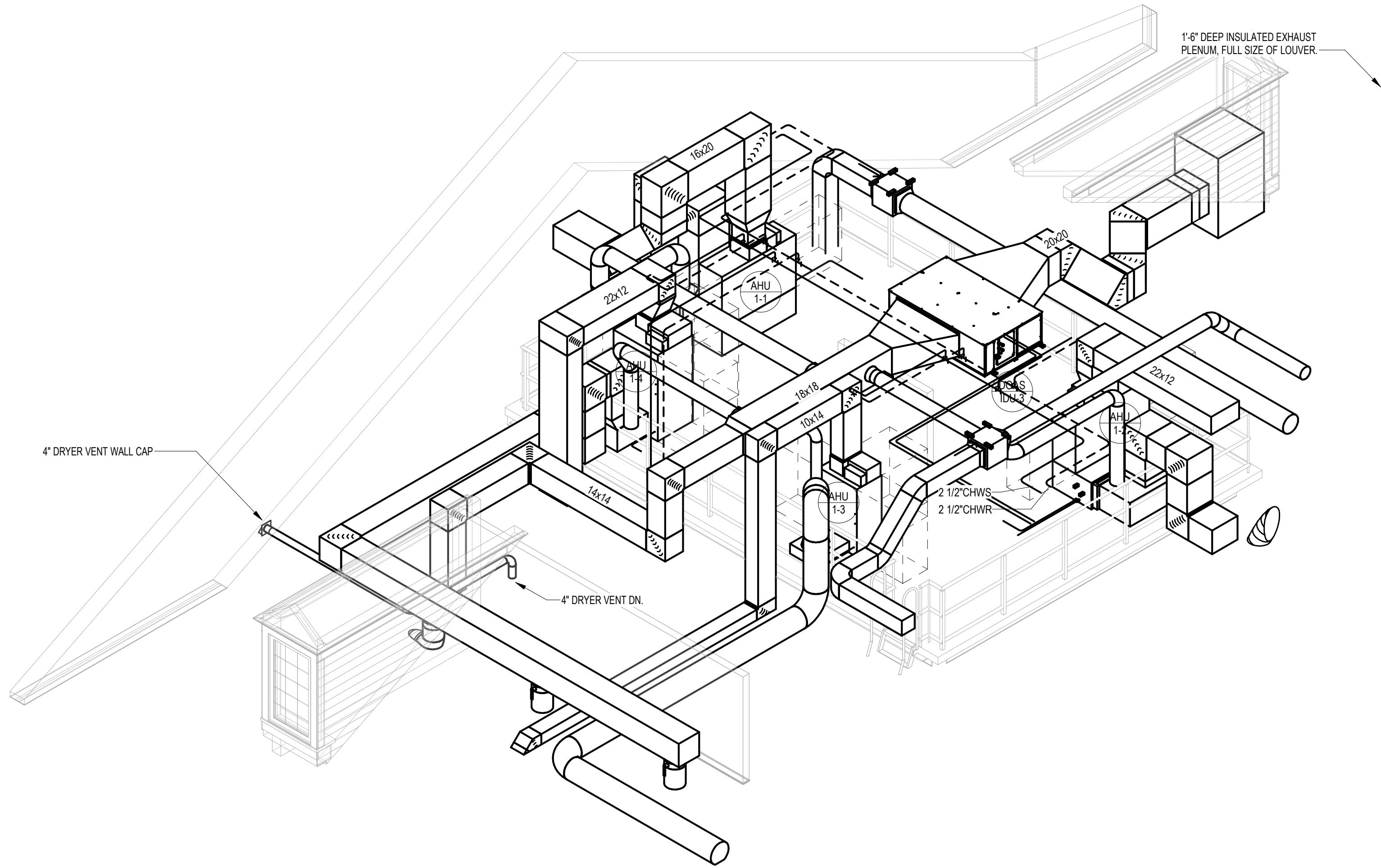
PROJECT NUMBER 22038
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M-401

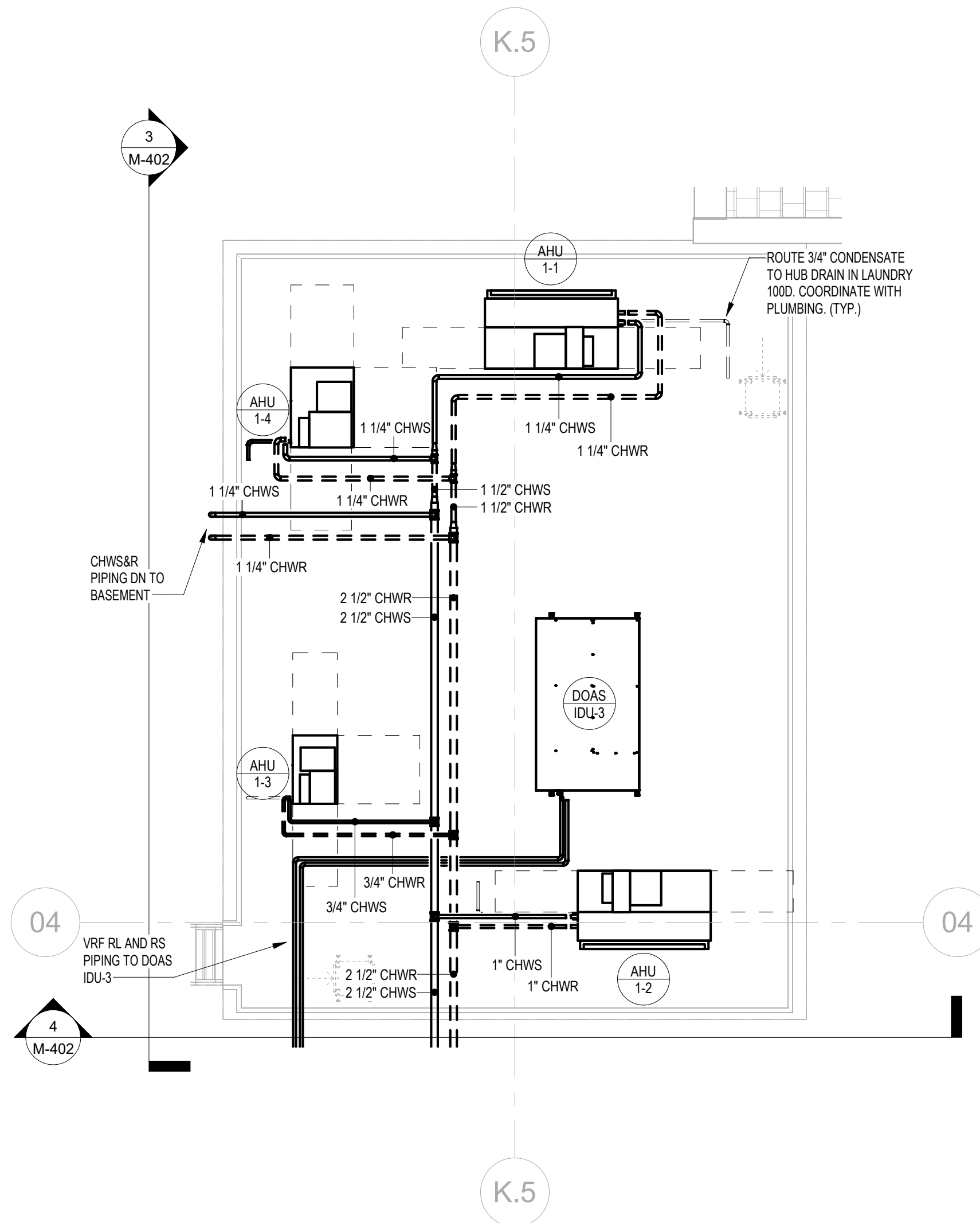
JSE Jordan & Skala Engineers
4275 Shackelford Road, Suite 200 • Norcross, GA 30093
p. 770.447.5547 • f. 770.448.0262
Project Number: 22010703 Drawn By: STH Checked By: SP



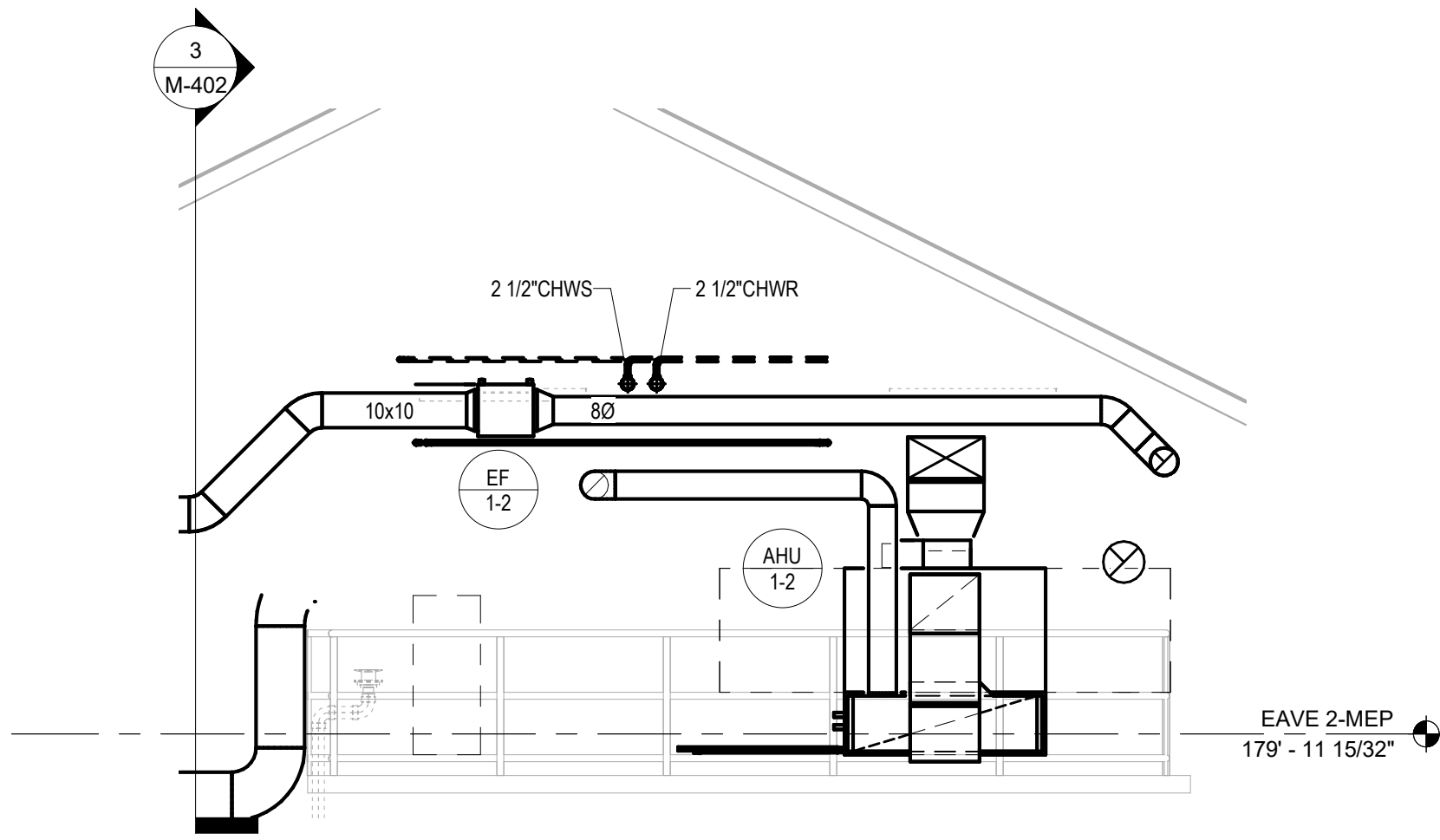
2 ENLARGED MEZZANINE 1 - HVAC
Scale: 1/4" = 1'-0"



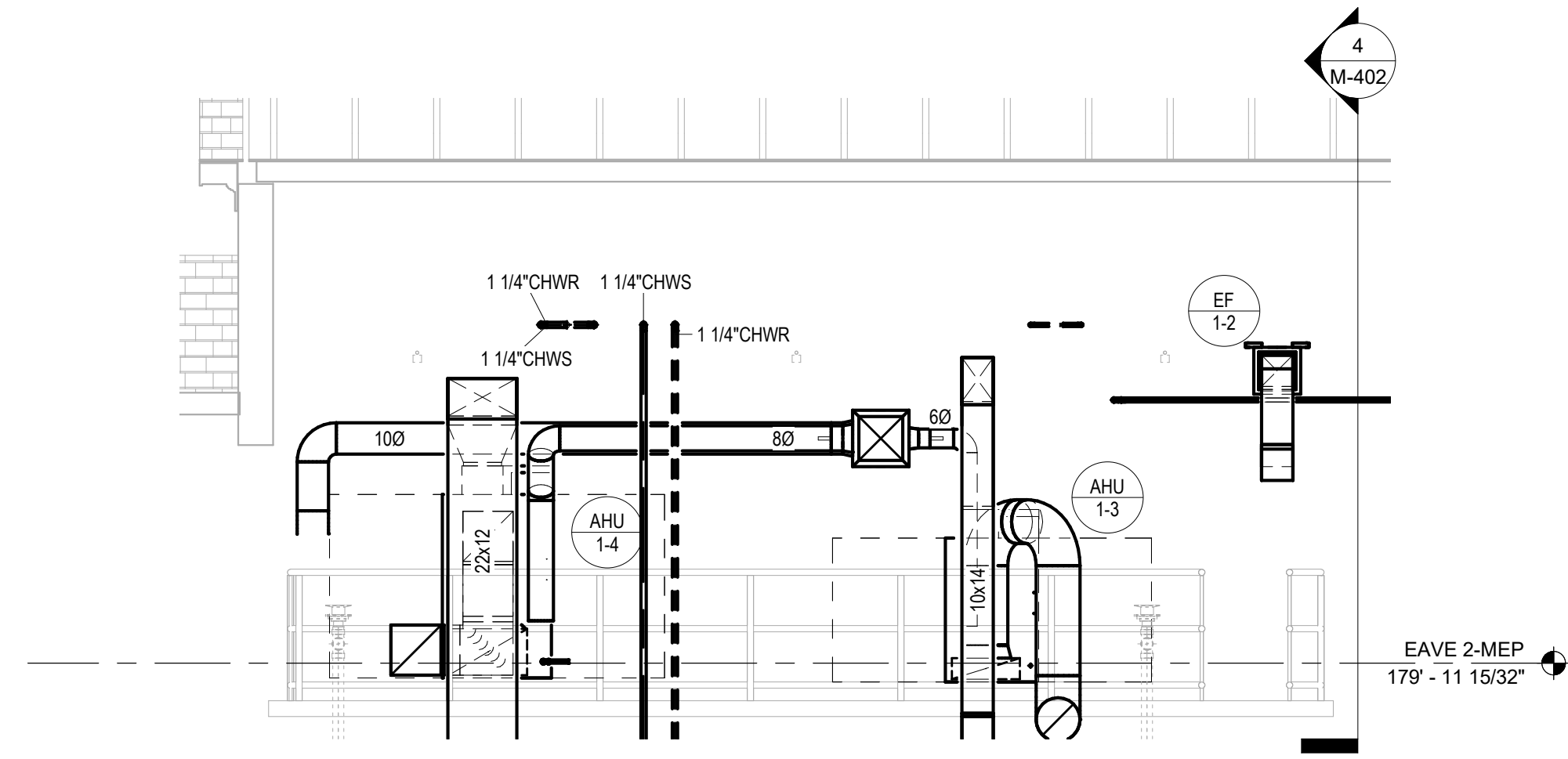
1 MEZZANINE 1
Scale:



5 ENLARGED MEZZANINE 1 - HVAC PIPING
Scale: 1/4" = 1'-0"



4 MEZZANINE 1 SECTION 2
Scale: 1/4" = 1'-0"



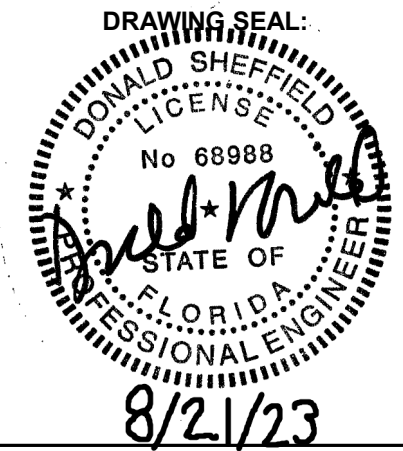
3 MEZZANINE 1 SECTION 1
Scale: 1/4" = 1'-0"

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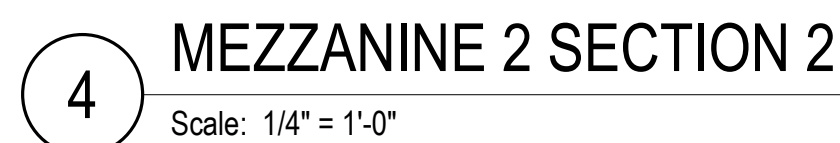
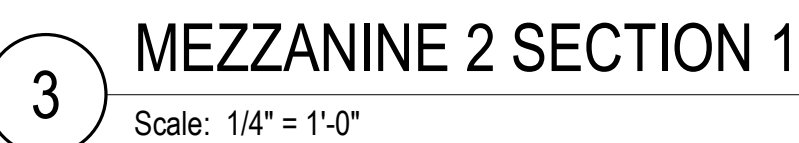
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No.	Description	Date
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ENLARGED
MEZZANINE PLAN -
HVAC

PROJECT NUMBER 22038
DATED 8/21/2023

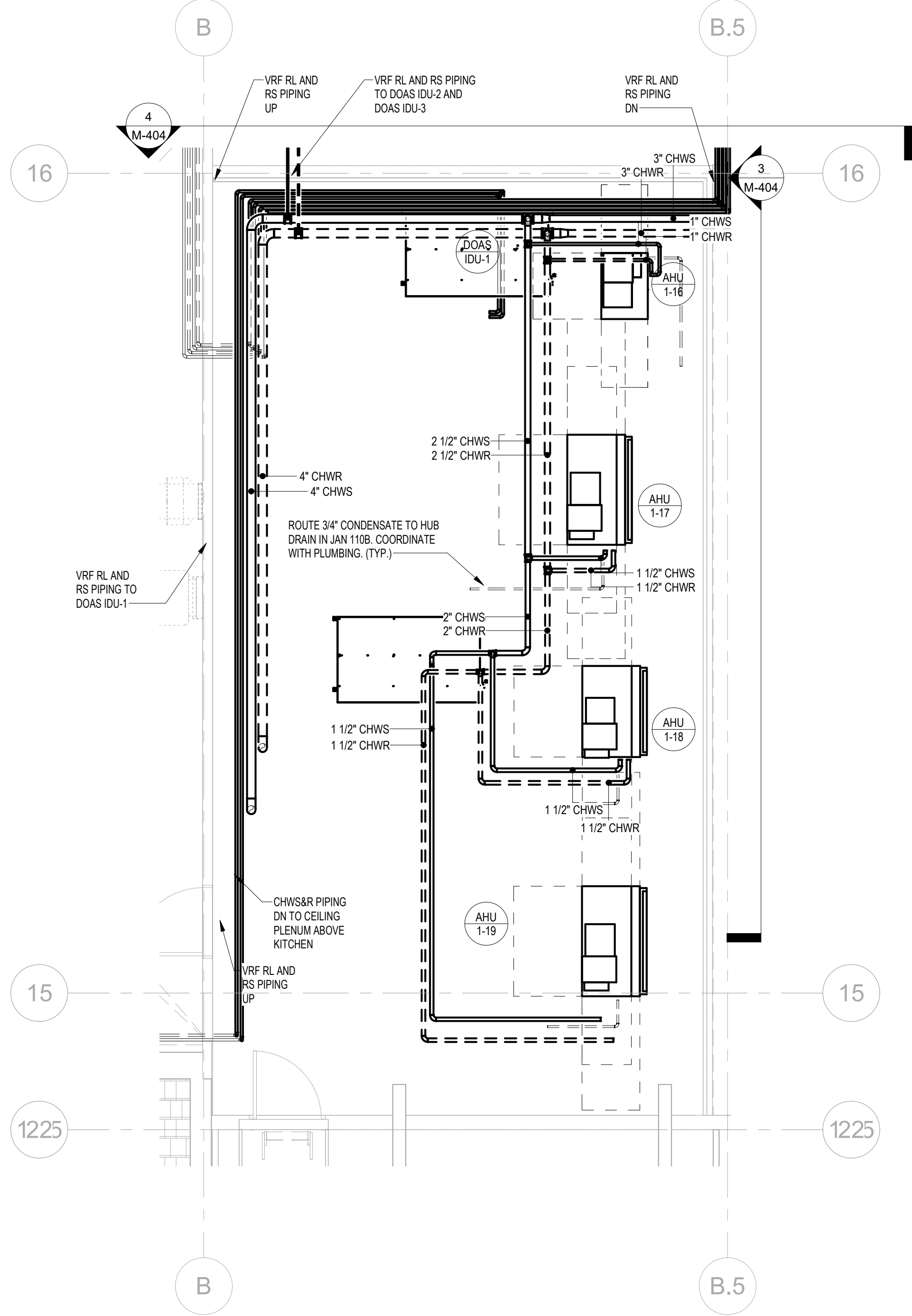
M-402

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4275 Shackelford Road, Suite 200 • Norcross, GA 30093
p. 770.447.5547 • f. 770.448.0262
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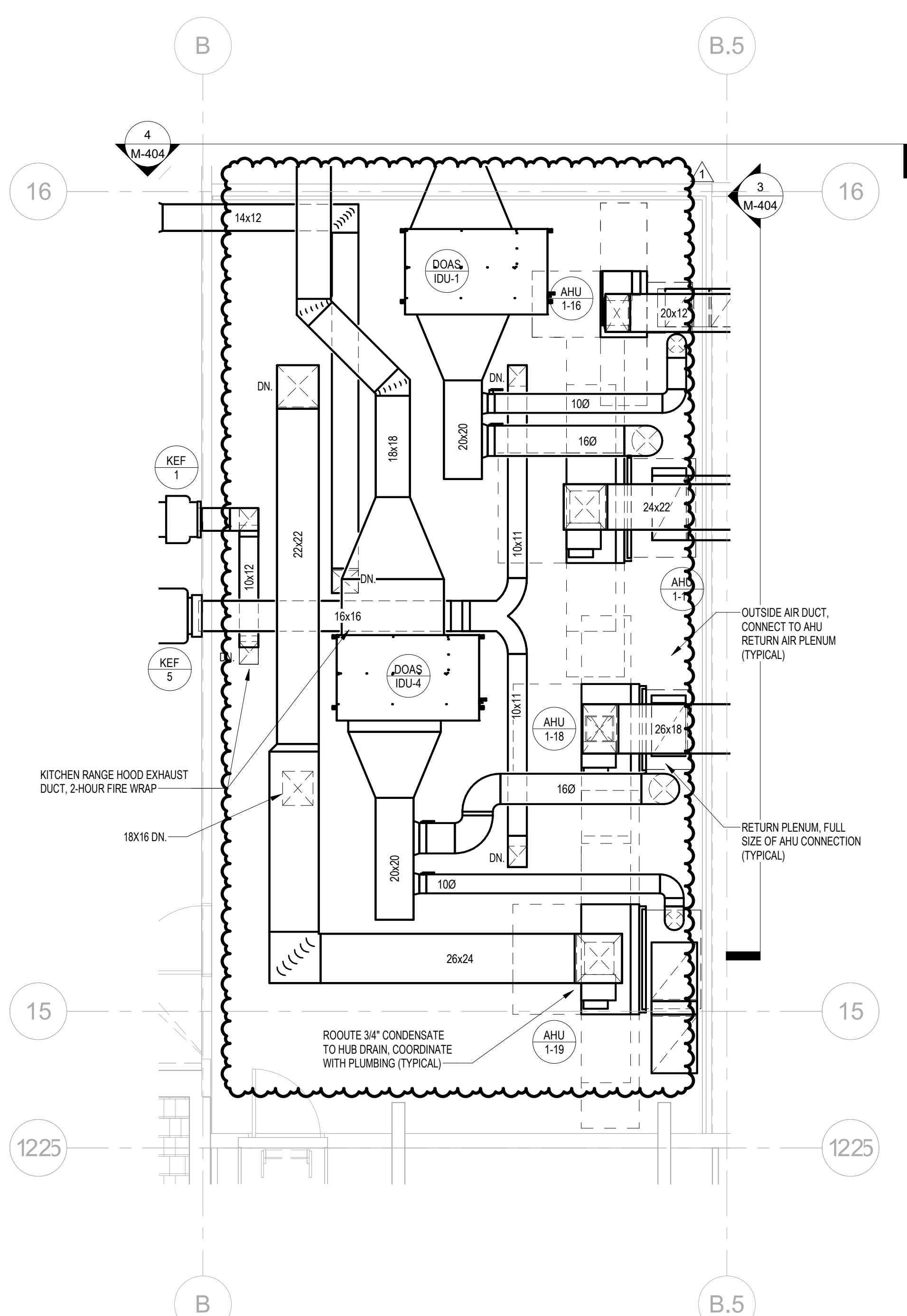
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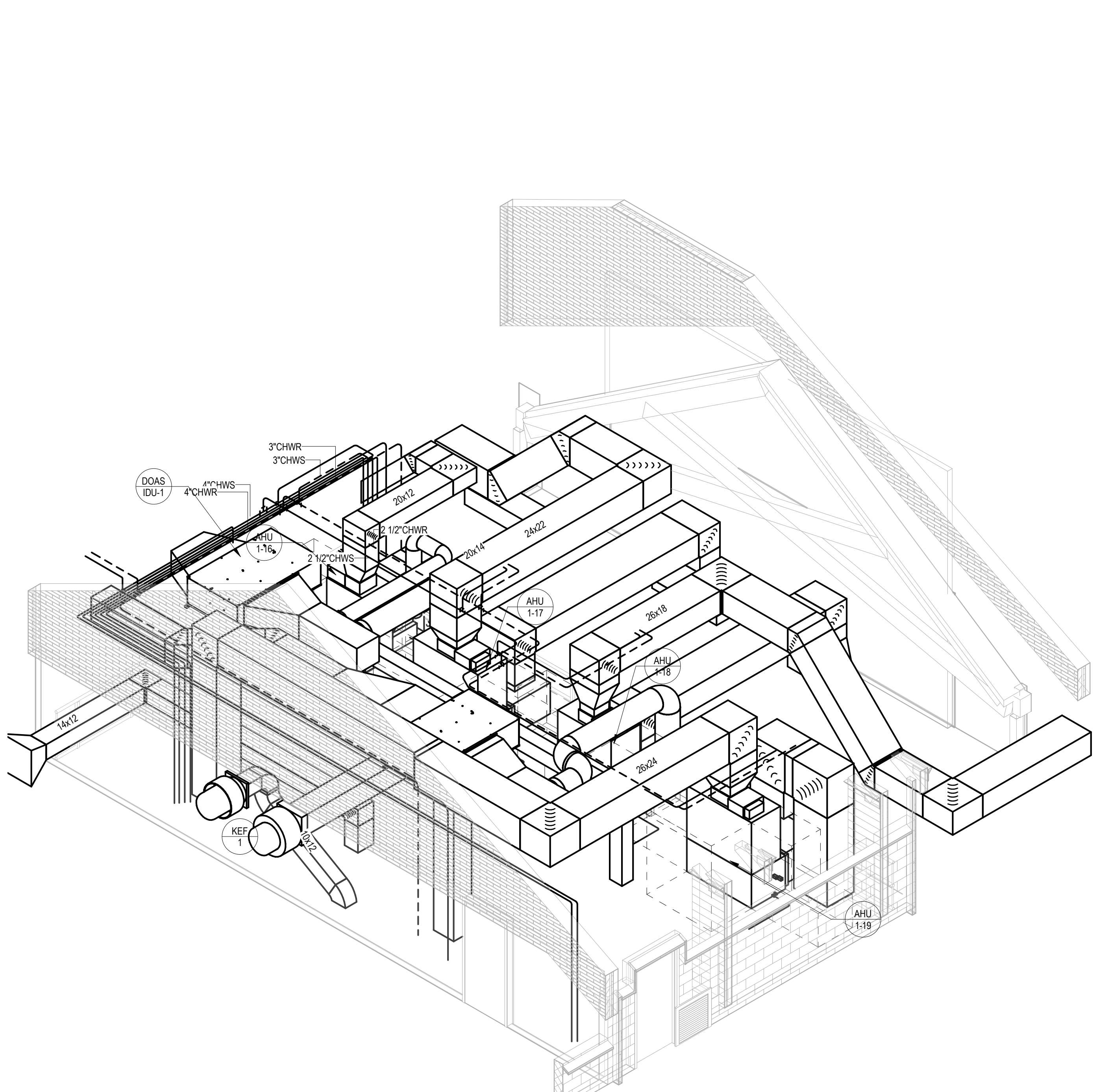
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8/21/2023



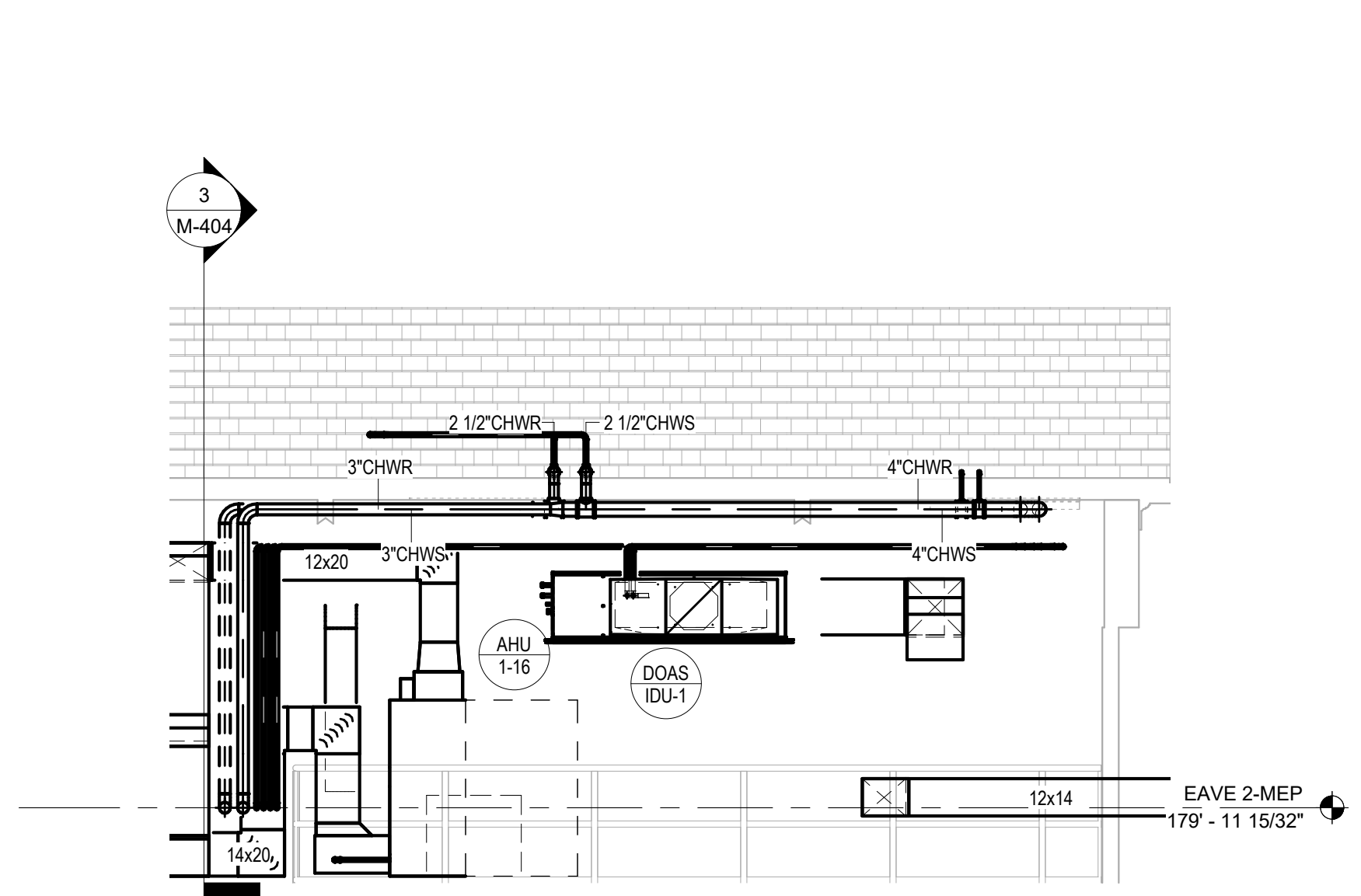
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Scale: 1/4" = 1'-0"



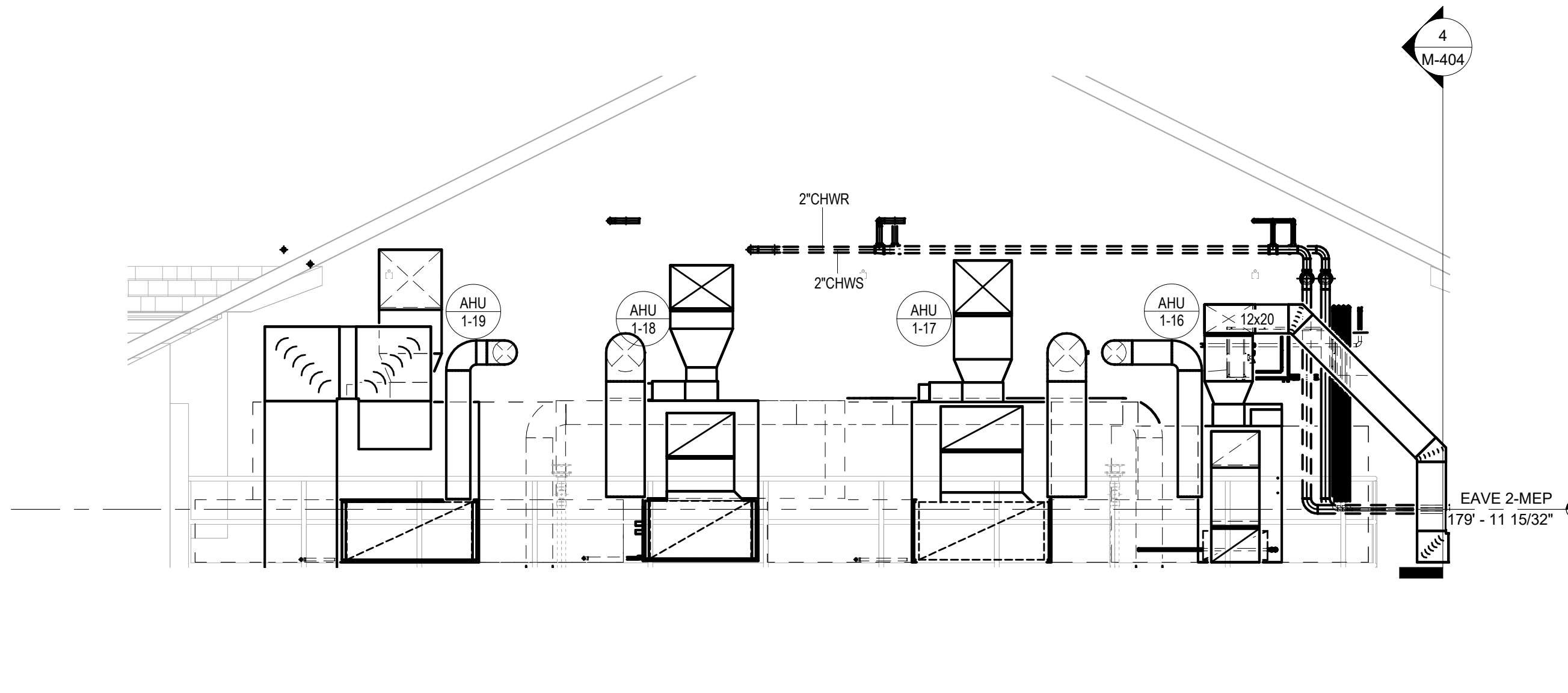
2 ENLARGED MEZZANINE 3 - HVAC
Scale: 1/4" = 1'-0"



1 MEZZANINE 3
Scale:



4 MEZZANINE 3 SECTION 2
Scale: 1/4" = 1'-0"



3 MEZZANINE 3 SECTION 1
Scale: 1/4" = 1'-0"

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ENLARGED
MEZZANINE PLAN -
HVAC

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M-404

