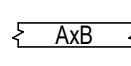
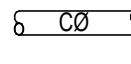
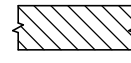
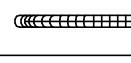


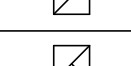

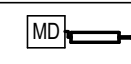



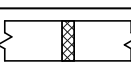



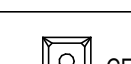
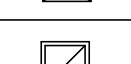


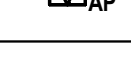
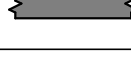






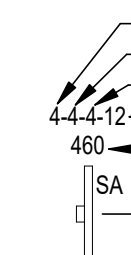
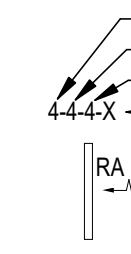
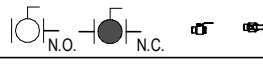
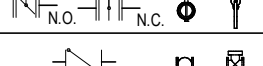



## AIR DISTRIBUTION

	RECTANGULAR SHEET METAL DUCT
	ROUND SHEET METAL DUCT
	DUCT SILENCER
	FLEXIBLE RUNOUT DUCT
	ROUND OR RECTANGULAR TAKE-OFF FITTING WITH BALANCING DAMPER - SEE DETAIL BM502.
	SUPPLY AIR DUCTWORK SECTION
	RETURN AIR DUCTWORK SECTION
	EXHAUST AIR DUCTWORK SECTION
	AIR BALANCING DAMPER (MANUAL)
	CONTROL DAMPER (MOTORIZED)
	FIRE/SMOKE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	DUCTWORK FLEXIBLE CONNECTION
	DUCTWORK ACCESS PANEL
	DUCT ELBOW WITH SINGLE THICKNESS TURNING VANES
	SIDEWALL REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
	SQUARE CEILING SA DIFFUSER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
	RECTANGULAR CEILING RA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) WHERE CFM IS NOT INDICATED, PROVIDE STANDARD SIZE FOR CEILING TYPE INDICATED IN SCHEDULE. SEE DETAIL CM501.
	RECTANGULAR CEILING EA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SEE DETAIL CM501.
	ACCESS PANEL IN INACCESSIBLE CEILING (24x24, UNO) SEE DETAIL EM502.
	NEW DUCT
	NEW DUCT WITH FIRE WRAP
	EXISTING DUCT TO REMAIN
	EXISTING MATERIALS TO BE REMOVED
	SINGLE DUCT AIR TERMINAL UNIT. SEE DETAIL FM503.
	DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR)
	DOOR UNDERCUT (3/4", UNO)
	<p>LENGTH OF DIFFUSER (FEET)</p> <p>NUMBER OF SLOTS</p> <p>SLOT WIDTH (2=1/2", 3=3/4", 4=1", 6=1 1/2")</p> <p>INLET SIZE (INCHES)</p> <p>AIR FLOW (CFM)</p> <p>SA SA SLOT DIFFUSER WITH PLENUM/BOOT (FLOW DIRECTION INDICATED)</p>
	<p>LENGTH OF DIFFUSER (FEET)</p> <p>NUMBER OF SLOTS</p> <p>SLOT WIDTH (2=1/2", 3=3/4", 4=1", 6=1 1/2")</p> <p>OPEN RA SLOT</p> <p>RA</p>

## VALVES

	BALL VALVE (WITH QUARTER TURN HANDLE)
	BUTTERFLY VALVE (WITH QUARTER TURN HANDLE)
	CHECK VALVE

## APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

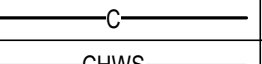
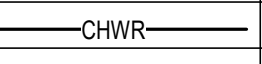
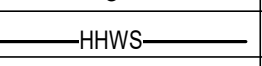
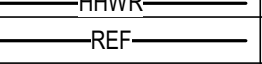
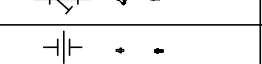

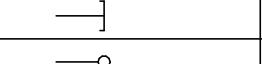
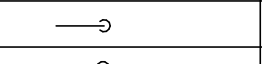
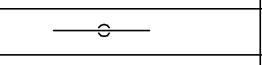
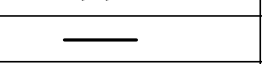
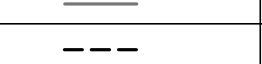



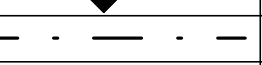
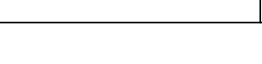



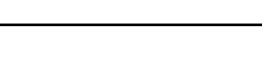
- ASHRAE**
  - a. STANDARD 15 SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
  - b. STANDARD 55 THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY
  - c. STANDARD 62.1 VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2016
  - d. STANDARD 90.1 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS
- ASME**
  - a. BOILER AND PRESSURE VESSEL CODE - 2013
  - 1) SECTION I RULES FOR CONSTRUCTION OF POWER BOILERS
  - 2) SECTION IV RULES FOR CONSTRUCTION OF HEATING BOILERS
  - b. ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS - 2016
- OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA)**
- NATIONAL FIRE CODES**
  - a. NFPA 1 UNIFORM FIRE CODE - 2018 (FLORIDA EDITION)
  - b. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM - 2016
  - c. NFPA 25 STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2017
  - d. NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE - 2018
  - e. NFPA 54 NATIONAL FUEL GAS CODE - 2018
  - f. NFPA 70 NATIONAL ELECTRICAL CODE - 2017
  - g. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE - 2016
  - h. NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2018
  - i. NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2018
  - j. NFPA 91 STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2015
  - k. NFPA 96 STANDARD FOR VENTILATION CONTROL, AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS - 2017
  - l. NFPA 101 LIFE SAFETY CODE - 2018 (FLORIDA EDITION)
- 2020 FLORIDA BUILDING CODE, 7TH EDITION**
  - a. BUILDING CODE
  - b. EXISTING BUILDING CODE
  - c. ENERGY CONSERVATION CODE
  - d. PLUMBING CODE
  - e. FUEL GAS CODE
  - f. ACCESSIBILITY CODE
- FLORIDA STATUTES**
  - a. CHAPTER 471 ENGINEERING
  - b. CHAPTER 533.80 BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
- FLORIDA ADMINISTRATIVE CODE**
  - a. CHAPTER 9B-7 FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
  - b. CHAPTER 61C-5 FLORIDA ELEVATOR SAFETY CODE
  - c. CHAPTER 61G15-34 RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
  - d. CHAPTER 69A-3 FIRE PREVENTION - GENERAL PROVISIONS
  - e. CHAPTER 69A-47 UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
  - f. CHAPTER 69A-60 THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.


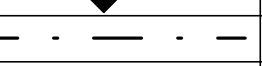
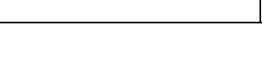

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

## PIPING AND FITTINGS

	CONDENSATE DRAIN PIPING FROM COOLING COIL
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	GAS PIPING
	HEATING HOT WATER SUPPLY PIPING
	HEATING HOT WATER RETURN PIPING
	REFRIGERANT PIPING (ONE LINE REPRESENTS BOTH LIQUID AND GAS LINES)
	STRAINER
	UNION
	FLEXIBLE PIPE CONNECTION
	AUTOMATIC AIR VENT AND ISOLATION BALL VALVE
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	FLOW DIRECTION IN PIPE
	NEW PIPE
	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED

## MISCELLANEOUS

	POINT OF CONNECTION, NEW TO EXISTING
	POINT INDICATED LIMIT OF DEMOLITION
	1 HOUR FIRE RATED WALL
	2 HOUR FIRE RATED WALL

## HVAC NOTES

- PRESSURE TEST PIPING SYSTEMS WITH WATER AT 100 PSI FOR A MINIMUM OF 4 HOURS. SYSTEM SHALL BE VERIFIED AT SAME TIME AND APPROXIMATELY SAME TEMPERATURE 24 HOURS FOLLOWING FILL. PRESSURE SHALL REMAIN ON SYSTEM UNTIL INSPECTED BY ENGINEER.
- TRAP AIR CONDITIONING CONDENSATE AND RUN TO SAFEWASTE AT LOCATION SHOWN ON PLANS.
- PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF CHILLED WATER AND HEATING HOT WATER PIPING SYSTEMS.
- INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING WHILE MAINTAINING ACCESSIBILITY FOR EQUIPMENT AND DEVICES AS APPROPRIATE.
- COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATIONS WITH ELECTRICAL TO PROVIDE THE REQUIRED CLEARANCES AROUND ALL ELECTRICAL PANELS, SWITCHGEAR, ETC.
- INSTALLATION OF EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR REMOVAL OF FILTERS AND FOR MAINTENANCE.
- DUCT SIZES GIVEN ARE SHEET METAL SIZES.
- COORDINATE EXACT LOCATIONS OF AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND THE LIGHTING LAYOUT.
- THE RETURN AIR FROM INDIVIDUAL ROOMS IS THRU AN ABOVE-CEILING RETURN AIR PLENUM.
- THE CEILING DIFFUSERS SHALL BE 4-WAY THRU UNLESS OTHERWISE NOTED.
- PROVIDE NEW AIR FILTERS IN EACH UNIT REQUIRING FILTERS WHEN THE PROJECT IS READY FOR TEST AND BALANCE. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. REPLACE FILTERS DURING CONSTRUCTION ACCORDING TO FILTER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL OPEN ENDS OF DUCT WORK DURING CONSTRUCTION.
- WHEREVER THE DEPTH OF THE TRUNK DUCT IS LESS THAN THE ROUND RUNOUT DUCT DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.
- WHERE ROUND DUCT IS INDICATED ON PLANS, USE SPIRAL WOUND DUCTWORK "SNAPLOCK" DUCTWORK IS NOT ACCEPTABLE.
- PROVIDE 3 DIAMETERS OF STRAIGHT DUCT AT INLET TO AIR TERMINAL UNITS. DUCT SIZE SHALL BE SAME AS BOX INLET. IF INLET DUCT LENGTH EXCEEDS 5 FEET, INCREASE INLET DUCT SIZE BY 4" UP TO 3 FEET FROM BOX INLET.
- PROVIDE FLEXIBLE DUCT CONNECTIONS AT EACH EQUIPMENT CONNECTION.
- PROVIDE FIRE DAMPER AT EVERY DUCT PENETRATION OF FIRE RATED CONSTRUCTION.
- INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIV. 29) IN SUPPLY TRUNK DUCT BEFORE ANY TAKE-OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY GREATER THAN 2000 CFM AND WHERE INDICATED ON PLANS.
- WHERE FIRE DAMPERS ARE REQUIRED, PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
- WHERE DUCT MOUNTED SMOKE DETECTORS ARE REQUIRED, PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
- WHERE CONTROL DAMPERS OR COILS ARE INSTALLED IN DUCTWORK, PROVIDE DUCT ACCESS DOORS TO ALLOW INSPECTION OF DEVICE. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
- IT IS RECOMMENDED THAT DUCTWORK BE FABRICATED FROM FIELD MEASUREMENTS TAKEN AS THE BUILDING STRUCTURE AND SPACE COMPETING SYSTEMS ARE PROGRESSIVELY INSTALLED. THE DUCTWORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS IS DIAGRAMMATIC AND DOES NOT NECESSARILY INCLUDE ALL MODIFICATIONS REQUIRED TO AVOID THESE INTERFERENCES. BEFORE FABRICATING ANY DUCTWORK, CHECK THE PHYSICAL CONDITIONS AT THE JOB SITE AND MAKE CHANGES IN CROSS SECTIONS, ROUTING, OFFSETS AND SIMILAR ITEMS WHETHER SPECIFICALLY INDICATED OR NOT. VERIFY THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING DUCTWORK, PIPING, LIGHT FIXTURES, CEILING SYSTEMS AND TO PROVIDE EQUIPMENT SERVICE, COSTS REQUIRED TO CHANGE DUCTWORK TO FIT THE SPACE AVAILABLE AND AVOID INTERFERENCES CAUSED BY SPACE COMPETING SYSTEMS SHALL BE BORNE BY THE CONTRACTOR. NO ADDITIONAL REMUNERATION WILL BE PAID BY THE OWNER.
- APPLY EXTERNAL INSULATION TO SINGLE WALL SUPPLY DUCTS, RETURN DUCTS AND OUTSIDE AIR DUCTS PER SPECIFICATIONS. DOUBLE WALL DUCTS AND DUCTS INDICATED ON PLANS TO HAVE INTERNAL DUCT LINER SHALL NOT RECEIVE EXTERNAL INSULATION.
- PROVIDE VOLUME CONTROL DAMPERS IN SIDE TAKE-OFF FITTINGS TO SUPPLY AIR DIFFUSERS AND EXHAUST AIR AND RETURN AIR GRILLES AND AT EACH DUCT BRANCH SERVING TWO OR MORE AIR TERMINALS, WHETHER SHOWN ON THE DRAWINGS OR NOT.
- MINIMUM PIPE SIZE FOR CHILLED WATER AND HEATING HOT WATER SHALL BE 3/4". REFER TO SCHEDULE FOR RUNOUT PIPE SIZE TO INDIVIDUAL EQUIPMENT.
- SECTIONS OF PIPE STORED ON SITE SHALL HAVE EACH OPEN END COVERED AT ALL TIMES EXCEPT WHILE MAKING CONNECTIONS. IF DEBRIS IS FOUND INSIDE PIPE, IT SHALL BE COMPLETELY REMOVED PRIOR TO ASSEMBLY.
- PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE, DAMPER OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- COORDINATE ALL DUCT TEST WITNESSING WITH LOCAL MECHANICAL INSPECTOR.
- PRIOR TO FINAL INSPECTION, PROVIDE CERTIFIED TEST & BALANCE REPORT AND OPERATIONS & MAINTENANCE MANUALS TO THE OWNER.
- PROVIDE DUCT ACCESS DOOR AT EACH FLOW MEASURING STATION.
- DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESSES, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS, AND HANGERS AND SUPPORTS, SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE DUCT."
- LOCATIONS OF EXISTING EQUIPMENT ARE BASED ON REFERENCE MATERIALS PROVIDED TO THE ENGINEER AND CONCEALED ELEMENTS HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL LOCATE CONCEALED ELEMENTS AND NOTIFY ENGINEER IF VARIANCES BETWEEN THESE DOCUMENTS AND ACTUAL FIELD CONDITIONS EXIST AND MAY MATERIALLY AFFECT THE DESIGN INTENT.

## GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
- VERIFY ALL DIMENSIONS AND ALL CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
- BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE SUBSEQUENTLY MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
- THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
- CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WORK OF ALL SUBCONTRACTORS TO AVOID INTERFERENCES.
- ALL WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
- ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS, PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
- COORDINATE AND SEQUENCE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
- THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
- THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
- THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
- THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
- PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL MOUNTED FURNISHINGS. FINISHINGS SHALL BE INSTALLED DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
- PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
- SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE. ATTACHMENTS SHALL BE TO STRUCTURAL SYSTEMS ONLY.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 130 MPH WIND LOAD.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
- BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
- CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
- THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE ALL REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE ALL WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
- EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.
- REMOVE AND REPAIR OR RE-INSTALL EXISTING CEILING ASSEMBLIES AS REQUIRED. REPLACE ANY ASSEMBLIES DAMAGED OR SOILED DURING CONSTRUCTION.
- PROVIDE PROPER PROTECTIVE MEASURES TO PROTECT EXISTING FURNITURE, CARPET AND FINISHES DURING THE COURSE OF CONSTRUCTION. TAKE CARE NOT TO DAMAGE EXISTING SURFACES. REPAIR TO MATCH EXISTING CONDITIONS AS REQUIRED.
- SEAL ALL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED.
- ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED IN ACCORDANCE WITH LOCAL REGULATIONS.
- ITEMS REMOVED AND SAVED FOR REUSE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL IDENTIFY ANY DEFECTIVE MATERIALS PRIOR TO DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO MATERIALS AT PROJECT COMPLETION NOT DEMOLISHED PRIOR TO DEMOLITION.
- RELOCATE, AS REQUIRED, ANY EXISTING WIRE AND CONDUIT WHICH INTERFERES WITH INSTALLATION OF THE NEW WORK.
- REMOVE ALL ELECTRICAL EQUIPMENT (CONDUIT, POWER & CONTROL WIRING, DISCONNECT SWITCHES, STARTERS, ETC.) RELATED TO EQUIPMENT BEING REMOVED OR REPLACED.
- CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 563 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

## DRAWING INDEX

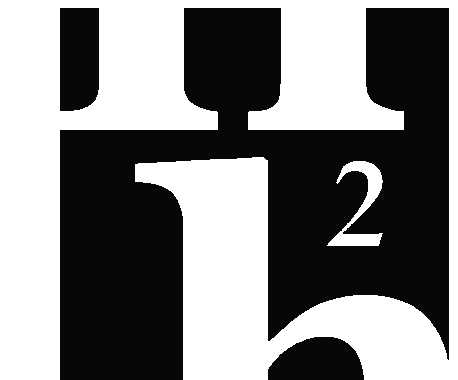
M001	GENERAL NOTES, LEGENDS & SCHEDULES
M002	GENERAL NOTES, LEGENDS & SCHEDULES
M003	SCHEDULES
M004	SCHEDULES
MD101	FIRST FLOOR PLAN - DEMOLITION
MD102	2ND FLOOR PLAN - DEMOLITION
MD103	MEZZANINE FLOOR PLAN - DEMOLITION
M101	FIRST FLOOR PLAN - NEW CONSTRUCTION
M102	2ND FLOOR PLAN - NEW CONSTRUCTION
M103	MEZZANINE - NEW CONSTRUCTION
M104	ROOF PLAN
M301	SECTIONS
M501	DETAILS
M502	DETAILS
M503	DETAILS



ARCHITECTURE  
PLANNING INTERIORS  
GRAPHICS

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NOTE:  
11" x 17" SHEETS ARE PLOTTED AT 1/2  
THE SCALE NOTED ON THESE DRAWINGS



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73938

This item has been electronically signed and sealed by **Scott T. Craig Jr., P.E.** on **10/17/2023** using a Digital Signature.

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## FSU TURNBULL CONFERENCE CENTER RENOVATIONS

REV	DATE	DESCRIPTION

PROJECT PHASE  
CONSTRUCTION DOCUMENTS

DATE  
18 OCTOBER 2023

DRAWN BY  
SAO

PROJECT NO  
74000

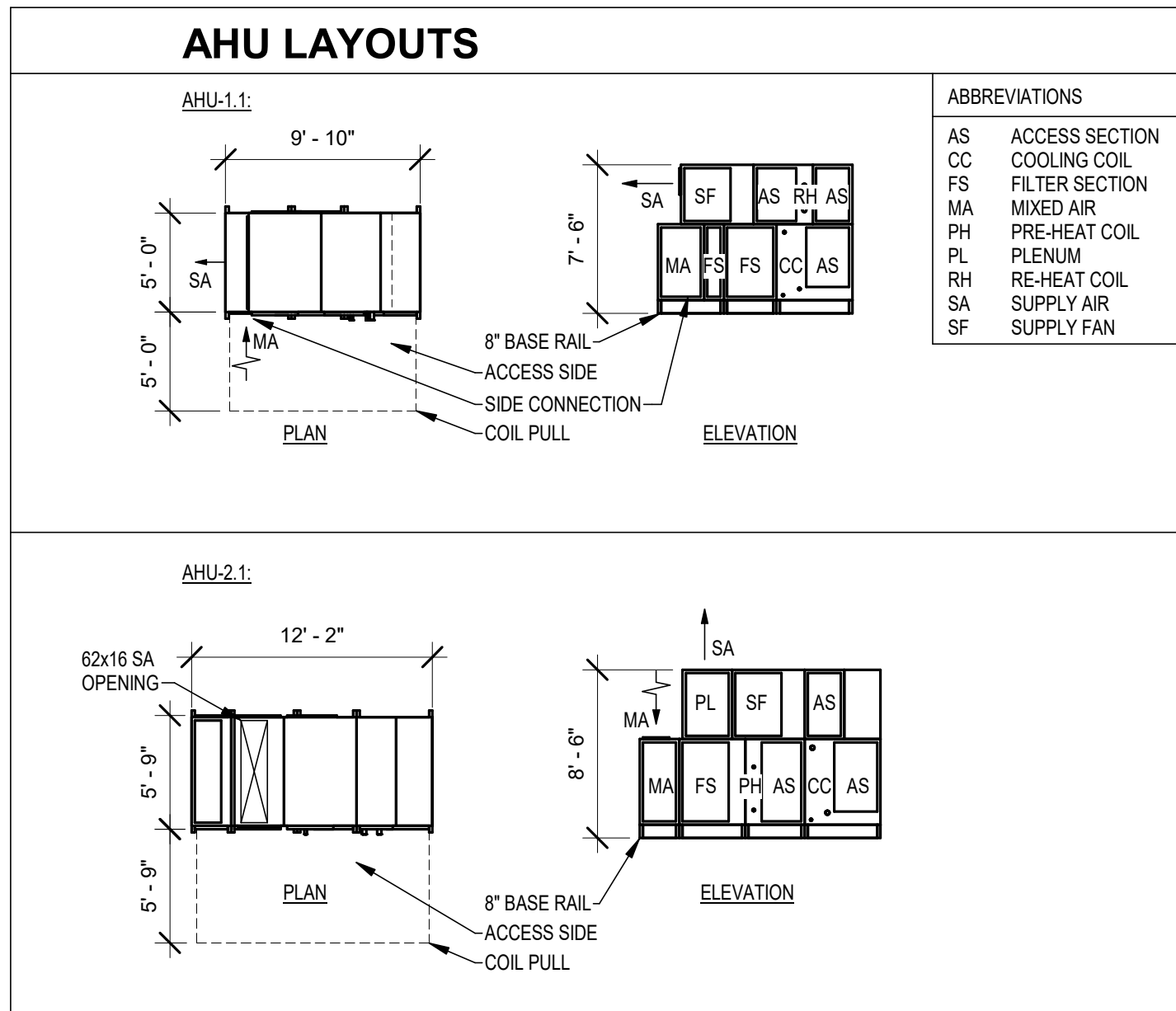
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STC

## GENERAL NOTES, LEGENDS & SCHEDULES

SHEET NO  
**M001**

REV NO





### AIR HANDLING UNITS - CONTINUED

DESIGNATION	AHU-1.1	AHU-2.1
AREA SERVED	KITCHEN	1ST & 2ND FL WEST
RADIATED SOUND DATA		
63 HZ	70	72
125 HZ	68	71
250 HZ	74	76
500 HZ	61	63
1000 HZ	60	61
DISCHARGE SOUND DATA		
63 HZ	80	77
125 HZ	74	71
250 HZ	84	81
500 HZ	81	76
1000 HZ	82	77
MANUFACTURER	DAIKIN	DAIKIN
DETAIL REFERENCE	B, D, JMS03	C, D, JMS03
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 REFER TO SOUND CRITERIA SCHEDULE FOR SOUND PRESSURE LEVELS.		
5 REFER TO OTHER EQUIPMENT SCHEDULES FOR PERFORMANCE REQUIREMENTS OF SPECIAL FEATURES.		
6 SUPPLY AIR OPENING SHALL BE OF SUFFICIENT SIZE TO MINIMIZE SYSTEM EFFECT FOR DISCHARGE INTO SUPPLY PLENUM.		
7 MOTOR SHAFT GROUNDING RINGS ON THE FAN MOTORS.		
8 PREWIRED ELECTRICAL JUNCTION BOXES ON THE FAN SECTIONS.		
9 DOORS ON BOTH SIDES OF THE AIR HANDLER FOR THE FAN AND FILTER SECTIONS.		

### DUCT SILENCER SCHEDULE

DESIGNATION	DS-1.1	DS-1.2
FLOW DIRECTION (NOTE 1)	REVERSE	FORWARD
FACE DIMENSION (WIDTH x HEIGHT)	IN x IN. 46x22	24x24
LENGTH	IN. 84	72
MAXIMUM AIRFLOW	CFM 3,230	4,000
MAXIMUM PRESSURE DROP (INCLUDING SYSTEM EFFECTS)	IN.W.G. 0.16	0.21
OCTAVE BAND DYNAMIC INSERTION LOSS / GENERATED NOISE (NOTE 2)		
63 Hz	dB 35	42
125 Hz	dB 27	27
250 Hz	dB 32	17
500 Hz	dB 37	31
1000 Hz	dB 35	33
2000 Hz	dB 32	28
4000 Hz	dB 22	21
8000 Hz	dB 15	17
BASIS OF DESIGN		
MODEL NUMBER	RL84/5E	RMX72/3E
MANUFACTURER	PRICE	PRICE
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.		

### BUILDING AIR BALANCE

OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
AHU-B.1 (EXISTING, OA FROM MAU-B.1)	1,850	EF-1.1 (EXISTING)	100
AHU-B.2 (EXISTING, OA FROM MAU-B.1)	3,750	EF-3.1 (EXISTING)	2,700
AHU-B.3 (EXISTING, OA FROM MAU-B.1)	2,100	EF-3.2 (NEW)	520
AHU-1.1 (NEW)	500	EF-3.3 (EXISTING)	100
AHU-1.2 (EXISTING, OA FROM MAU-B.1)	4,850	EF-3.4 (NEW)	600
AHU-1.3 (EXISTING, OA FROM MAU-B.1)	60	EF-3.5A (NEW)	1,900
AHU-2.1 (NEW)	2,150	EF-3.5B (NEW)	1,900
FCU-B.3 (EXISTING, OA FROM MAU-B.1)	120	EF-3.6A (NEW)	2,500
		EF-3.6B (NEW)	2,500
TOTAL	(+)15,380		(-)12,820
AIR BALANCE			2,560

### VENTILATION RATE

TYPE OF SPACE	EXHAUST AIR CFM / FT <sup>2</sup>	OUTSIDE AIR CFM / PERSON	VENTILATION AIR CFM / PERSON
BREAK ROOMS		5	15
COMMON CORRIDORS		0	0
CONFERENCE / MEETING		5	15
CORRIDORS		0	0
JANITOR / TRASH	1	0	0
KITCHEN (COOKING)	0.7	5	15
LECTURE CLASSROOM		5	15
LOBBIES		5	15
LOBBIES / PREFUNCTION		5	15
MAIN ENTRY LOBBIES		5	15
OFFICE SPACE		5	15
RESTAURANT DINING ROOMS		5	15
STAGES, STUDIOS		5	15
STORAGE ROOMS		0	0
TOILET (PUBLIC)	50/70	0	0
NOTES:			
1 VENTILATION RATES CALCULATED PER REQUIREMENTS OF FLORIDA EXISTING BUILDING CODE 2020, 809.2 ALTERED EXISTING SYSTEMS.			
2 EXHAUST IS PER WATER CLOSET AND/OR URINAL. HIGHER RATE USED.			

### DESIGN CONDITIONS SCHEDULE

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	55
TELECOMMUNICATION ROOMS	*Fdb - %RH	78	55
MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	*Fdb - %RH	80	50
ELEVATOR MACHINE ROOMS	*Fdb - %RH	80	50
INDOOR CONDITIONS - WINTER			
OFFICE AREAS (EXCEPT AS NOTED BELOW)	*Fdb - %RH	70	30
CLASSROOMS	*Fdb - %RH	70	30
TELECOMMUNICATION ROOMS	*Fdb - %RH	65	30
MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	*Fdb - %RH	70	30
ELEVATOR MACHINE ROOMS	*Fdb - %RH	70	30

### AIR HANDLING UNITS

DESIGNATION	AHU-1.1	AHU-2.1
AREA SERVED	KITCHEN	1ST & 2ND FL WEST
AIR FLOW RATES		
TOTAL SUPPLY AIR	CFM 5,000	6,100
OUTSIDE AIR	CFM 500	2,150
RETURN AIR	CFM 4,500	3,950
MINIMUM SUPPLY FAN SPEED SETTING	% 30	35
MINIMUM OUTSIDE AIR FLOW	CFM 500	2,150
PRE-FILTER SECTION		
FILTER ORIENTATION		FLAT FLAT
TYPE OF FILTER		2" THICK PLEATED 2" THICK PLEATED
FILTER EFFICIENCY		MERV 8 MERV 8
FINAL FILTER SECTION		
FILTER ORIENTATION		ANGLED ANGLED
TYPE OF FILTER		2" THICK PLEATED 2" THICK PLEATED
FILTER EFFICIENCY		MERV 13 MERV 13
PREHEAT COIL DATA - HYDRONIC		
HEATING CAPACITY	MBTUH	65.8
AIR ENTERING HEATING COIL	*F	20
AIR LEAVING HEATING COIL	*F	48
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	180 - 150
WATER FLOW	GPM	4.4
RUNOUT PIPE SIZE	IN.	3/4
CONTROL VALVE (TYPE)		2-WAY
COOLING COIL DATA - HYDRONIC		
TOTAL COOLING CAPACITY	MBTUH	184.8 332.1
SENSIBLE COOLING CAPACITY	MBTUH	141.5 185.8
AIR ENTERING COOLING COIL	*Fdb - *Fwb	78.2 - 64.2 81.2 - 69.8
AIR LEAVING COOLING COIL	*Fdb - *Fwb	52.0 - 51.5 53.0 - 52.5
CHW ENTERING & LEAVING TEMPERATURE	*F - *F	44 - 66 44 - 66
WATER FLOW	GPM	17 30
MINIMUM FACE AREA (@ 450 FPM)	SQ. FT.	11.1 13.6
GLYCOL CONCENTRATION	%	0 0
RUNOUT PIPE SIZE	IN.	1 1/2 2 1/2
CONDENSATE DRAIN SIZE	IN.	1 1/4 1 1/4
CONTROL VALVE (TYPE)		2-WAY 2-WAY
HEATING COIL DATA - HYDRONIC		
HEATING AIRFLOW (% OF TOTAL SUPPLY AIR)	%	30
HEATING CAPACITY	MBTUH	52.6
AIR ENTERING HEATING COIL	*F	53
AIR LEAVING HEATING COIL	*F	84.9
HHW ENTERING & LEAVING TEMPERATURE	*F - *F	180 - 150
WATER FLOW	GPM	3.5
RUNOUT PIPE SIZE	IN.	3/4
CONTROL VALVE (TYPE)		2-WAY
SUPPLY FAN SECTION		
FAN TYPE		PLENUM PLENUM
DRIVE TYPE		DIRECT DIRECT
ELECTRONICALLY COMMUTATED MOTOR (ECM)		NO NO
FAN QUANTITY (INCLUDING REDUNDANCY)	#	1 1
REDUNDANCY		NONE NONE
EXTERNAL STATIC PRESSURE	IN. WG	1.1 1.5
DIRTY PRE-FILTER ALLOWANCE	IN. WG	0.7 0.7
DIRTY FINAL FILTER ALLOWANCE	IN. WG	0.7 0.7
MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTER)	IN. WG	3.8 4.1
FAN MOTOR HORSEPOWER	HP - BHP	7.5 - 4.3 10.0 - 5.7
ELECTRICAL CHARACTERISTICS & NO. OF CIRCUITS	V / PH - #	480 / 3 - 1 480 / 3 - 1
MCA / MOCOP (PER CIRCUIT)	AMPS - AMPS	13.8 - 20 17.5 - 30
VARIABLE FREQUENCY DRIVE (PROVIDED BY DIV 26)		1 PER UNIT 1 PER UNIT

ARCHITECTURE  
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GRAPHICS

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NOTE:  
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**FSU TURNBULL  
CONFERENCE CENTER  
RENOVATIONS**

---

REV	DATE	DESCRIPTION
1	4.17.24	FSU PERMIT

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PROJECT PHASE	
CONSTRUCTION DOCUMENTS	

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DATE	DRAWN BY
18 OCTOBER 2023	SAO

---

PROJECT NO	CHECKED BY
74000	STC

---

SHEET TITLE

## SCHEDULES

---

SHEET NO	REV NO
<b>M003</b>	1

### DUCTLESS SPLIT SYSTEM TYPES

TYPE	C1	
DESCRIPTION	COOLING ONLY	
PERFORMANCE - (NOTES 1 & 2)		
NOMINAL CAPACITY	TONS	1 1/2
TOTAL COOLING CAPACITY	BTUH	18,000
SENSIBLE COOLING CAPACITY	BTUH	14,480
HEATING CAPACITY @ 47 °F	BTUH	N/A
HEATING CAPACITY @ 17 °F	BTUH	N/A
AIR FLOW RATE (HIGH - LOW)	CFM	713 - 448
SEER	BTU / W-HR	18.0
HSPF	BTU / W-HR	N/A
INDOOR UNIT DATA		
FILTERS	1" WASHABLE	
CONDENSATE DRAIN SIZE	IN.	3/4
ELECTRICAL CHARACTERISTICS	V / PH	N/A
MINIMUM CIRCUIT AMPACITY	AMPS	N/A
MAXIMUM OVERLOAD PROTECTION	AMPS	N/A
WEIGHT	LBS.	27
OUTDOOR UNIT DATA		
COMPRESSOR TYPE	INVERTER	
ELECTRICAL CHARACTERISTICS	V / PH	208 / 1
MINIMUM CIRCUIT AMPACITY	AMPS	18.3
MAXIMUM OVERLOAD PROTECTION	AMPS	20
WEIGHT	LBS.	97
MAX REFRIGERANT LINE LENGTH	FT	99
REFRIGERANT TYPE	R410A	
MANUFACTURER	DAIKIN	
MODEL NUMBER (INDOOR UNIT)	FTK18NMVJU	
MODEL NUMBER (OUTDOOR UNIT)	RK18NMVJU	
DETAIL REFERENCE	C, DIM502	
NOTES:		
1	COOLING CAPACITY RATED @ 95 °F AMBIENT, 80°Fdb / 67°Fwb ENTERING AIR TEMPERATURE.	
2	HEATING CAPACITY RATED @ 47 °Fdb / 43°Fwb AMBIENT, 70°Fdb ENTERING AIR TEMPERATURE.	
3	UNIT SHALL BE CAPABLE OF OPERATION FOR AMBIENT TEMPERATURES DOWN TO 14°F.	
4	REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER.	
5	PROVIDE INTEGRAL CONDENSATE SENSOR TO SHUT UNIT OFF IF HIGH CONDENSATE LEVELS ARE DETECTED IN THE DRAIN PAN.	

### FANS

DESIGNATION	EF-3.2	EF-3.5A	EF-3.5B	EF-3.6A	EF-3.6B	TF-1.1
AREA SERVED	1ST & 2ND FL	1ST FL KITCHEN HOOD 1	1ST FL KITCHEN HOOD 1	1ST FL KITCHEN HOOD 2	1ST FL KITCHEN HOOD 2	1ST FL
SERVICE	CLASS 1 OR 2 EXHAUST	GREASE EXHAUST	GREASE EXHAUST	GREASE EXHAUST	GREASE EXHAUST	CLASS 1 OR 2 TRANSFER
MOUNTING METHOD	ROOF	ROOF	ROOF	ROOF	ROOF	SUSPENDED
FAN TYPE	CENTRIFUGAL UPBLAST	CENTRIFUGAL UPBLAST	CENTRIFUGAL UPBLAST	CENTRIFUGAL UPBLAST	CENTRIFUGAL UPBLAST	CENTRIFUGAL SQUARE IN-LINE
AIR FLOW	CFM	520	1,900	1,900	2,500	4,000
STATIC PRESSURE	IN.	0.7	2.5	2.5	2.5	0.4
FAN SPEED	RPM	1,124	1,700	1,700	1,874	775
FAN DRIVE		DIRECT	BELT	BELT	BELT	DIRECT
MOTOR SPEED	RPM	1,450	1,725	1,725	1,725	950
MOTOR POWER	HP or W	1/4 HP	2 HP	2 HP	3 HP	2 HP
MOTOR BRAKE HORSEPOWER	BHP	0.1	1.6	1.5	2.1	0.5
ELECTRONICALLY COMMUTATED MOTOR		YES	NO	NO	NO	YES
ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	480 / 3	480 / 3	480 / 3	208 / 1
WEIGHT	LBS.	66	184	184	225	168
NOISE LEVEL	SONES or LwA	8.6 SONES	18.1 SONES	18.1 SONES	20 SONES	5 SONES
STANDARD NOTES		1, 2, 3, 4, 7, 9	1, 6, 7, 9, 23, 24	1, 6, 7, 9, 23, 24	1, 6, 7, 9, 23, 24	1, 2, 4, 10, 14, 15, 16, 17, 18
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER		CUE-140-VG	CUBE-240XP-VGD	CUBE-240XP-VGD	CUBE-240XP-VGD	SQ-20-VG
DETAIL REFERENCE		HIM503	HIM501	HIM501	HIM501	EIM503
NOTES: (SEE SEQUENCES OF OPERATION ON SHEET IC203 FOR FAN CONTROLS)						
1	ELECTRICAL TO PROVIDE DISCONNECT SWITCH.					
2	PROVIDE SOLID STATE SPEED CONTROLLER, FACTORY MOUNTED.					
3	PROVIDE BIRD SCREEN.					
4	PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.					
6	PROVIDE EXTENDED LUBRICATION LINES.					
7	PROVIDE PRE-FABRICATED INSULATED ROOF CURB, 12-INCH HIGH WITH DAMPER TRAY, SLOPED TO MATCH ROOF SLOPE.					
9	PROVIDE TIE-DOWN EYELETS.					
10	PROVIDE SPRING ISOLATORS.					
14	PROVIDE INSULATED HOUSING.					
15	PROVIDE SIDE DISCHARGE ARRANGEMENT (WHERE INDICATED ON PLANS).					
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).					
23	PROVIDE VENTED EXTENSION WITH HINGED BASE.					
24	PROVIDE GREASE TRAP WITH DRAIN CONNECTION.					

### AIR CURTAIN

DESIGNATION	AC-1.1	
LOCATION	KITCHEN	
AIR QUANTITY	CFM 1380	
FAN QUANTITY & MOTOR SIZE	# - HP 1 - 1/2	
ELECTRICAL CHARACTERISTICS	V / PH 120 / 1	
FULL LOAD AMPS	AMPS 5.1	
MANUFACTURER	MARS	
MODEL NUMBER	STD236	
NOTES:		
1	MATCH COLOR OF INTERIOR MOUNTING SURFACE.	
2	PROVIDE MOTOR PANEL AND DOOR LIMIT SWITCH. AIR CURTAIN SHALL ACTIVATE AS DOOR BEGINS TO OPEN.	

### VARIABLE VOLUME TERMINALS - SHUTOFF WITH HOT WATER REHEAT

DESIGNATION (VVT-)	VVT-1.1-107	
AIR VALVE		
NOMINAL DIAMETER	IN.	10
MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.40
AIR FLOW RATES		
MAXIMUM COOLING	CFM	830
MINIMUM COOLING	CFM	250
MAXIMUM HEATING	CFM	830
MINIMUM HEATING	CFM	250
UNOCCUPIED MINIMUM	CFM	150
HEATING COIL DATA - HYDRONIC		
HEATING CAPACITY	MBTUH	32.9
AIR ENTERING HEATING COIL	°F	48
AIR LEAVING HEATING COIL	°F	84
HHW ENTERING & LEAVING TEMPERATURE	°F - °F	180 - 150
WATER FLOW	GPM	2.2
RUNOUT PIPE SIZE	IN.	3/4
MINIMUM # OF ROWS	#	1
CONTROL VALVE (TYPE)		2-WAY
SOUND CRITERIA - (NOTE 1)		
INTEGRAL SILENCER		NO
MAX DISCHARGE SOUND RATING	NC	30
MAX RADIATED SOUND RATING	NC	30
NOTES:		
1	BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT.	

### DUCTLESS SPLIT SYSTEMS

INDOOR UNIT DESIGNATION	DSSI-B.1	DSSI-1.1
OUTDOOR UNIT DESIGNATION	DSSO-B.1	DSSO-1.1
SCHEDULED TYPE	C1	C1
DESCRIPTION	COOLING ONLY	COOLING ONLY
FAN SPEED	MEDIUM	MEDIUM
NOTES	1, 4	1, 4
NOTES:		
1	PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT.	
4	INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE FIELD SUPPLIED INTERCONNECTED WIRING PER MANUFACTURER'S INSTRUCTIONS.	

### TEST AND BALANCE AIR HANDLING UNITS (EXISTING UNITS)

DESIGNATION	AHU-B.2	
DESIGN AIR QUANTITIES		
SUPPLY AIR FLOW	CFM	6,980
OUTSIDE AIR FLOW	CFM	3,750
DESIGN COOLING & HEATING CAPACITIES		
TOTAL COOLING CAPACITY	MBH	130
HEATING CAPACITY	MBH	355
NOTES:		
1	EXISTING FAN TERMINAL UNIT SCHEDULE INFORMATION; PROVIDED FOR REFERENCE ONLY.	
2	PROVIDE TESTING, ADJUSTING, AND BALANCING (TAB) WORK IN ACCORDANCE WITH SPECIFICATIONS. TAB WORK SHALL INCLUDE DOCUMENTING FAN, COOLING, AND HEATING PERFORMANCE IN ADDITION TO ELECTRICAL CHARACTERISTICS.	
3	CLEAN, LUBRICATE, AND GREASE EXISTING UNIT. PROVIDE NEW BELTS ON BELT-DRIVE EQUIPMENT. TEST FUNCTIONALITY OF UNIT AND ASSOCIATED CONTROLS. REPORT PERFORMANCE OF TESTS TO OWNER AND ENGINEER.	

### TEST AND BALANCE VARIABLE VOLUME UNITS (EXISTING UNITS)

DESIGNATION	WVT-1.1-105	WVT-1.1-106	WVT-1.1-201	WVT-1.1-202	WVT-1.1-203	WVT-1.1-204	WVT-1.1-205
DESIGN AIR QUANTITIES							
NOMINAL AIR VALVE DIAMETER	IN.	12	10	6	6	12	8
MAXIMUM AIR FLOW CAPACITY	CFM	1,800	1,400	500	500	1,800	800
MAXIMUM DESIGN AIR FLOW	CFM	780	770	260	280	1,320	550
MINIMUM DESIGN AIR FLOW	CFM	520	410	150	150	520	240
COIL DESIGN FLOW RATE	GPM	1.6	1.2	0.5	0.5	1.6	0.7
NOTES:							
1	EXISTING TERMINAL UNIT SCHEDULE INFORMATION; PROVIDED FOR REFERENCE ONLY.						
2	PROVIDE TESTING, ADJUSTING, AND BALANCING (TAB) WORK IN ACCORDANCE WITH SPECIFICATIONS.						
3	CLEAN EXISTING UNIT. VERIFY DAMPER IS OPERATING AND SENSORS ARE FUNCTIONING. TEST FUNCTIONALITY OF UNIT AND ASSOCIATED CONTROLS. REPORT PERFORMANCE OF TESTS TO OWNER AND ENGINEER.						
4	COORDINATE CALIBRATION OF UNIT WITH CONTROL CONTRACTOR.						
5	PROVIDE PRE TEST AND BALANCE WORK TO DOCUMENT FAN PERFORMANCE, COOLING PERFORMANCE, HEATING PERFORMANCE AND AIR FLOW CAPACITIES. RECORD AIR FLOWS AT MAXIMUM AND MINIMUM FOR EACH BOX.						

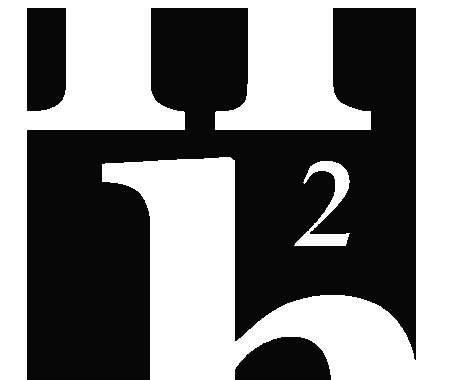


ARCHITECTURE  
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NOTE:  
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Scott T. Craig, Jr., State of Florida,  
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**FSU TURNBULL  
CONFERENCE CENTER  
RENOVATIONS**

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REV	DATE	DESCRIPTION
△	4.17.24	FSU PERMIT

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PROJECT PHASE	
CONSTRUCTION DOCUMENTS	

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DATE	DRAWN BY
18 OCTOBER 2023	SAO

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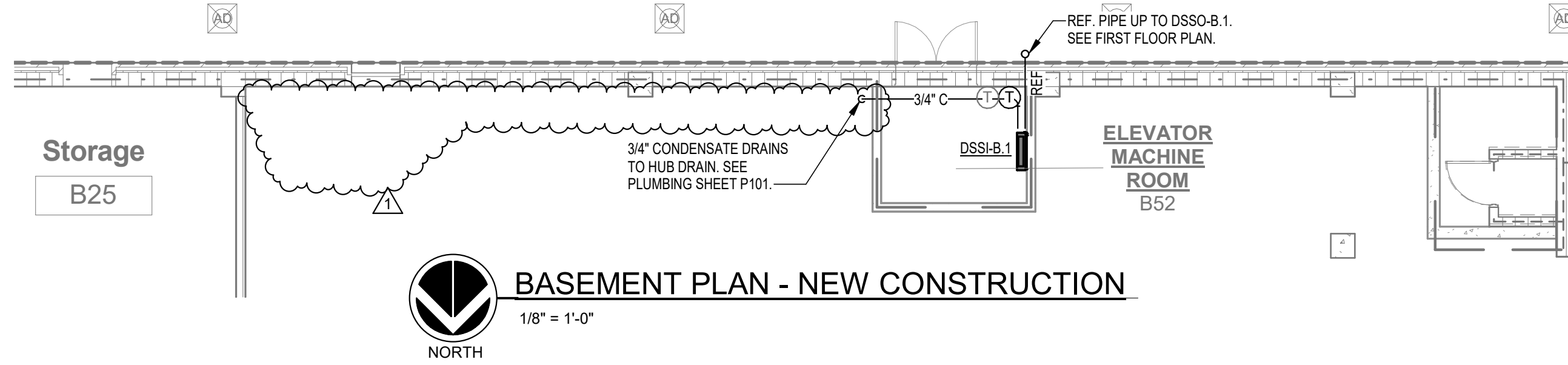
PROJECT NO	CHECKED BY
74000	STC

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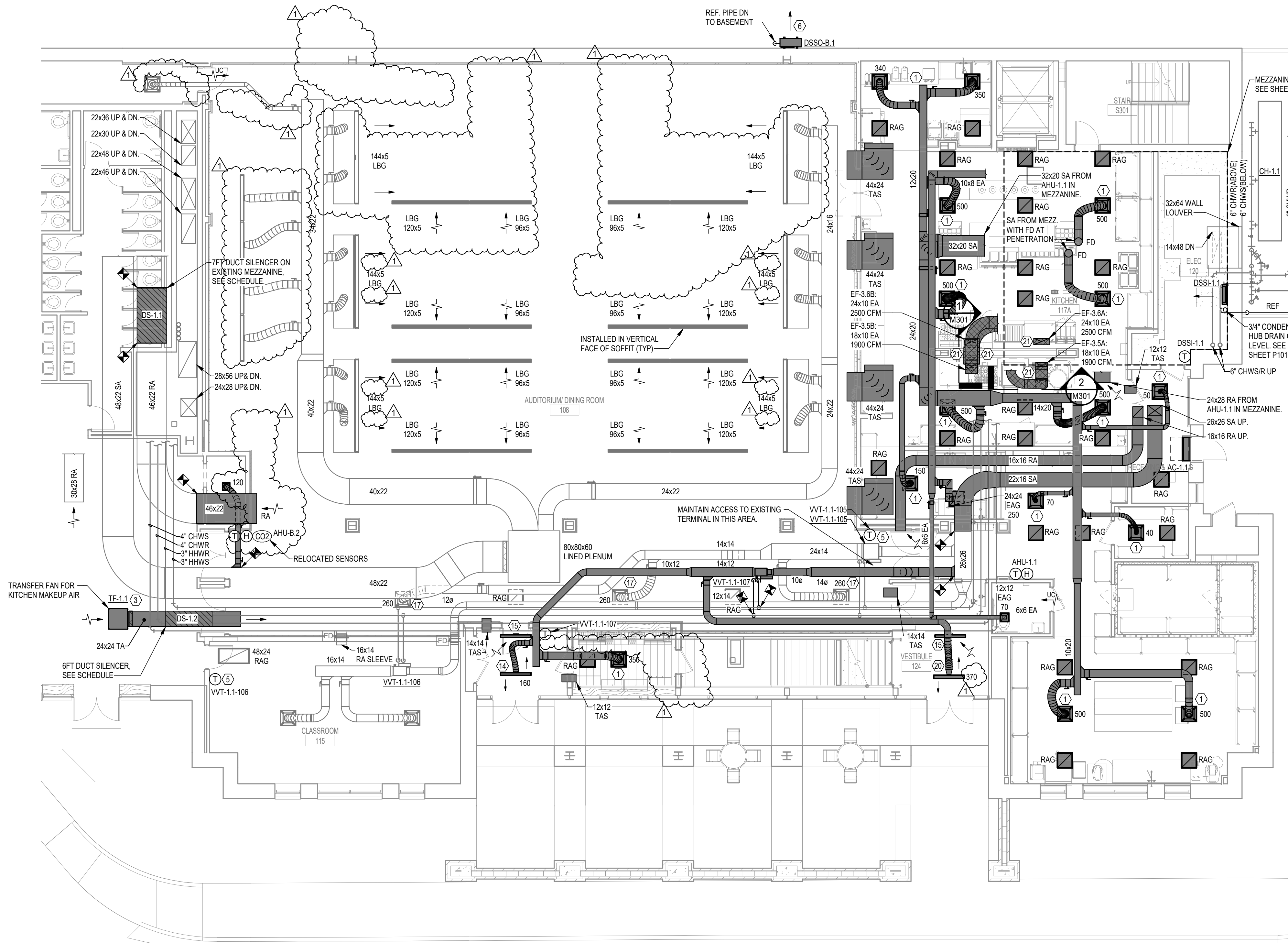
SHEET TITLE  
**SCHEDULES**

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SHEET NO	REV NO
<b>M004</b>	△



**BASEMENT PLAN - NEW CONSTRUCTION**  
1/8" = 1'-0"  
NORTH

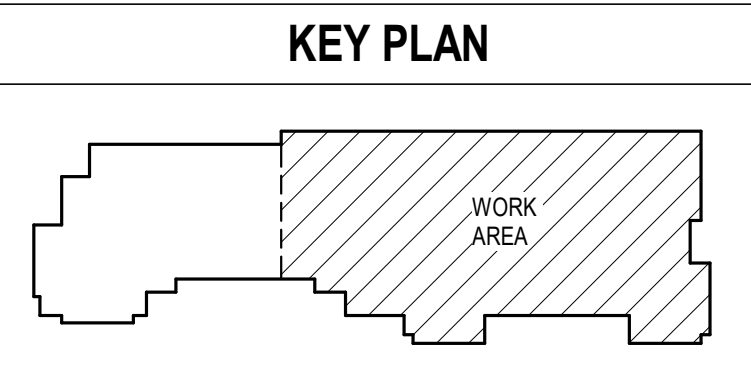


**FIRST FLOOR PLAN - NEW CONSTRUCTION**  
1/8" = 1'-0"  
NORTH

**GENERAL RENOVATION NOTES**

- ALL NEW AND EXISTING MATERIALS WITHIN THE EXISTING RETURN AIR PLENUM, IN THE DEFINED PROJECT AREA SHALL MEET THE REQUIREMENTS FOR FIRE AND SMOKE RATINGS IN A PLENUM PER FBC 2020-M SECTION 602. ITEMS NOT IN COMPLIANCE SHALL BE REMOVED OR ENCAPSULATED IN COMPLIANCE WITH SECTION 602.

- RENOVATION KEYNOTES** (SOME KEYNOTES MAY NOT APPLY TO SHEET)
- PROVIDE SUPPLY AIR DIFFUSER, BALANCE TO VALUE INDICATED.
  - NOT USED.
  - FLEXIBLE DUCT CONNECTOR, (TYPICAL)
  - RELOCATED AIR TERMINAL UNIT.
  - RELOCATED AIR TERMINAL UNIT TEMPERATURE SENSOR. EXTEND AND CONNECT CONTROL WIRE AS REQUIRED.
  - WALL MOUNTED CONDENSING UNIT. SEE DETAIL DIM502.
  - MOUNT OUTDOOR UNIT ON NEW CONCRETE EQUIPMENT PAD.
  - RELOCATED RETURN AIR GRILLE.
  - EXISTING 12x8 EA UP TO NEW EXHAUST FAN ON ROOF. MODIFY EXISTING OPENING IN ROOF AS REQUIRED. PROVIDE NEW ROOF CURB. SEE SHEET M200 FOR ROOF PLAN.
  - PROVIDE SUPPLY SLOT 6-3-4-12 WITH SUPPLY PLENUM. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
  - 14x14 EA FROM KITCHEN HOOD UP TO EF-3.5A ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
  - 24x10 EA FROM KITCHEN HOOD UP TO EF-3.6A ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
  - PROVIDE NEW HYDRONIC COIL PACKAGE AND RECONNECT TO EXISTING HYDRONIC PIPING AS REQUIRED.
  - PROVIDE SUPPLY SLOT 4-2-4-8. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
  - PROVIDE RETURN SLOT 4-2-4-X. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
  - PROVIDE SUPPLY SLOT 6-2-4-8. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
  - 14x14 EA FROM KITCHEN HOOD UP TO EF-3.5A ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
  - 18x10 EA FROM KITCHEN HOOD UP TO EF-3.5B ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
  - PROVIDE SUPPLY SLOT 4-4-4-10. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
  - PROVIDE GREASE DUCTS WITHOUT DIPS AND TRAPS THAT MAY HOLD GREASE, AND SLOPED A MINIMUM OF 2 PERCENT TO DRAIN GREASE BACK TO THE HOOD. PROVIDE FIRE-RATED ACCESS PANEL ASSEMBLIES AT EACH CHANGE IN DIRECTION AND AT MAXIMUM INTERVALS OF 12 FEET IN HORIZONTAL DUCTS, AND AT EVERY FLOOR FOR VERTICAL DUCTS, OR AS INDICATED ON DRAWINGS. GREASE DUCT SHALL BE FIRE WRAPPED PER SPECIFICATIONS. PROVIDE DUCT SUMPS WHERE HORIZONTAL SLOPE CANNOT BE ACHIEVED BACK TO KITCHEN HOOD SEE DETAIL FM502.



**EMI architects**

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PROJECT PHASE  
CONSTRUCTION DOCUMENTS

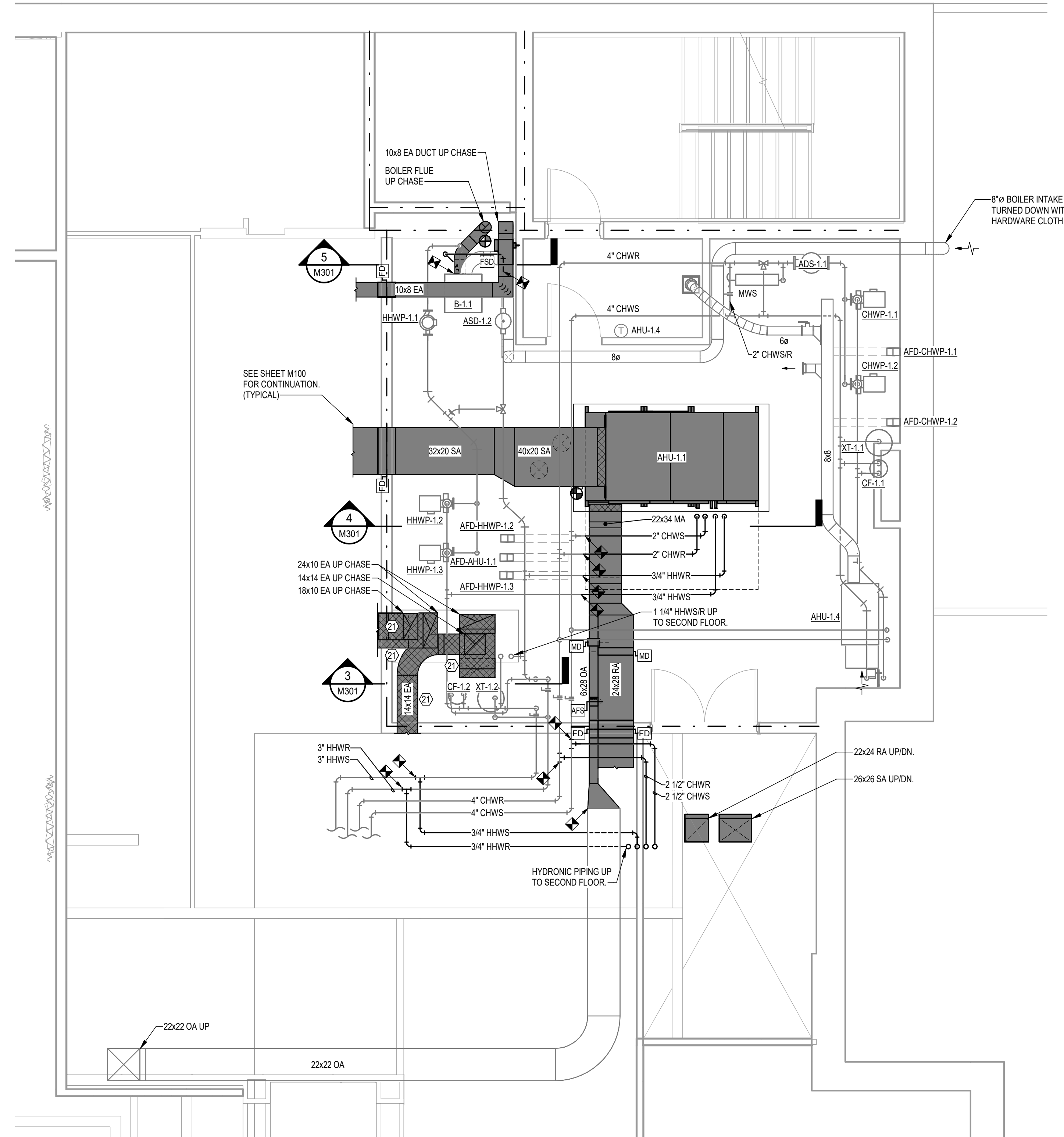
DATE	DRAWN BY
18 OCTOBER 2023	SAO

PROJECT NO	CHECKED BY
74000	STC

SHEET TITLE  
**FIRST FLOOR PLAN - NEW CONSTRUCTION**

SHEET NO	REV NO
<b>M101</b>	Δ





**GENERAL RENOVATION NOTES**

1. ALL NEW AND EXISTING MATERIALS WITHIN THE EXISTING RETURN AIR PLENUM, IN THE DEFINED PROJECT AREA SHALL MEET THE REQUIREMENTS FOR FIRE AND SMOKE RATINGS IN A PLENUM PER FBC 2020-M SECTION 602. ITEMS NOT IN COMPLIANCE SHALL BE REMOVED OR ENCAPSULATED IN COMPLIANCE WITH SECTION 602.

**RENOVATION KEYNOTES**

(SOME KEYNOTES MAY NOT APPLY TO SHEET).

- 1) PROVIDE SUPPLY AIR DIFFUSER. BALANCE TO VALUE INDICATED.
- 2) NOT USED.
- 3) FLEXIBLE DUCT CONNECTOR. (TYPICAL)
- 4) RELOCATED AIR TERMINAL UNIT.
- 5) RELOCATED AIR TERMINAL UNIT TEMPERATURE SENSOR. EXTEND AND CONNECT CONTROL WIRE AS REQUIRED.
- 6) WALL MOUNTED CONDENSING UNIT. SEE DETAIL DM502.
- 7) MOUNT OUTDOOR UNIT ON NEW CONCRETE EQUIPMENT PAD.
- 8) RELOCATED RETURN AIR GRILLE.
- 9) EXISTING 12x8 EA UP TO NEW EXHAUST FAN ON ROOF. MODIFY EXISTING OPENING IN ROOF AS REQUIRED. PROVIDE NEW ROOF CURB. SEE SHEET M200 FOR ROOF PLAN.
- 10) PROVIDE SUPPLY SLOT 6-3-4-12 WITH SUPPLY PLENUM. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
- 11) 14x14 EA FROM KITCHEN HOOD UP TO EF-3.5A ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
- 12) 24x10 EA FROM KITCHEN HOOD UP TO EF-3.6A ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
- 13) PROVIDE NEW HYDRONIC COIL PACKAGE AND RECONNECT TO EXISTING HYDRONIC PIPING AS REQUIRED.
- 14) PROVIDE SUPPLY SLOT 4-2-4-8. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
- 15) PROVIDE RETURN SLOT 4-2-4-X. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
- 16) PROVIDE SUPPLY SLOT 6-2-4-8. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
- 17) BALANCE DIFFUSER / GRILLE TO VALUE INDICATED.
- 18) 24x10 EA FROM KITCHEN HOOD UP TO EF-3.6B ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
- 19) 18x10 EA FROM KITCHEN HOOD UP TO EF-3.5B ON ROOF. FIRE WRAP EA DUCT AND PROVIDE CLEANOUTS PER NFPA 96.
- 20) PROVIDE SUPPLY SLOT 4-4-4-10. SEE SHEET M001 FOR NUMBER IDENTIFICATION. BALANCE TO VALUE INDICATED.
- 21) PROVIDE GREASE DUCTS WITHOUT DIPS AND TRAPS THAT MAY HOLD GREASE, AND SLOPED A MINIMUM OF 2 PERCENT TO DRAIN GREASE BACK TO THE HOOD. PROVIDE FIRE-RATED ACCESS PANEL ASSEMBLIES AT EACH CHANGE IN DIRECTION AND AT MAXIMUM INTERVALS OF 12 FEET IN HORIZONTAL DUCTS, AND AT EVERY FLOOR FOR VERTICAL DUCTS, OR AS INDICATED ON DRAWINGS. GREASE DUCT SHALL BE FIRE WRAPPED PER SPECIFICATIONS. PROVIDE DUCT SUMPS WHERE HORIZONTAL SLOPE CANNOT BE ACHIEVED BACK TO KITCHEN HOOD SEE DETAIL FM502.



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REV	DATE	DESCRIPTION

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CONSTRUCTION DOCUMENTS

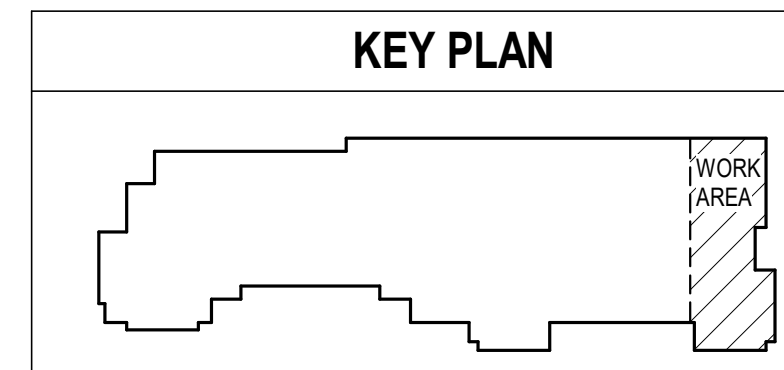
DATE 18 OCTOBER 2023	DRAWN BY SAO
PROJECT NO 74000	CHECKED BY STC

SHEET TITLE

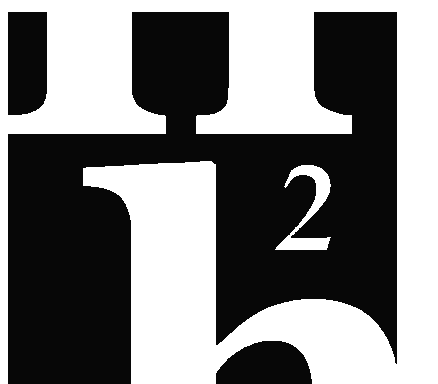
**MEZZANINE - NEW  
CONSTRUCTION**

SHEET NO <b>M103</b>	REV NO
-------------------------	--------

**MEZZANINE - NEW CONSTRUCTION**  
1/4" = 1'-0"  
NORTH



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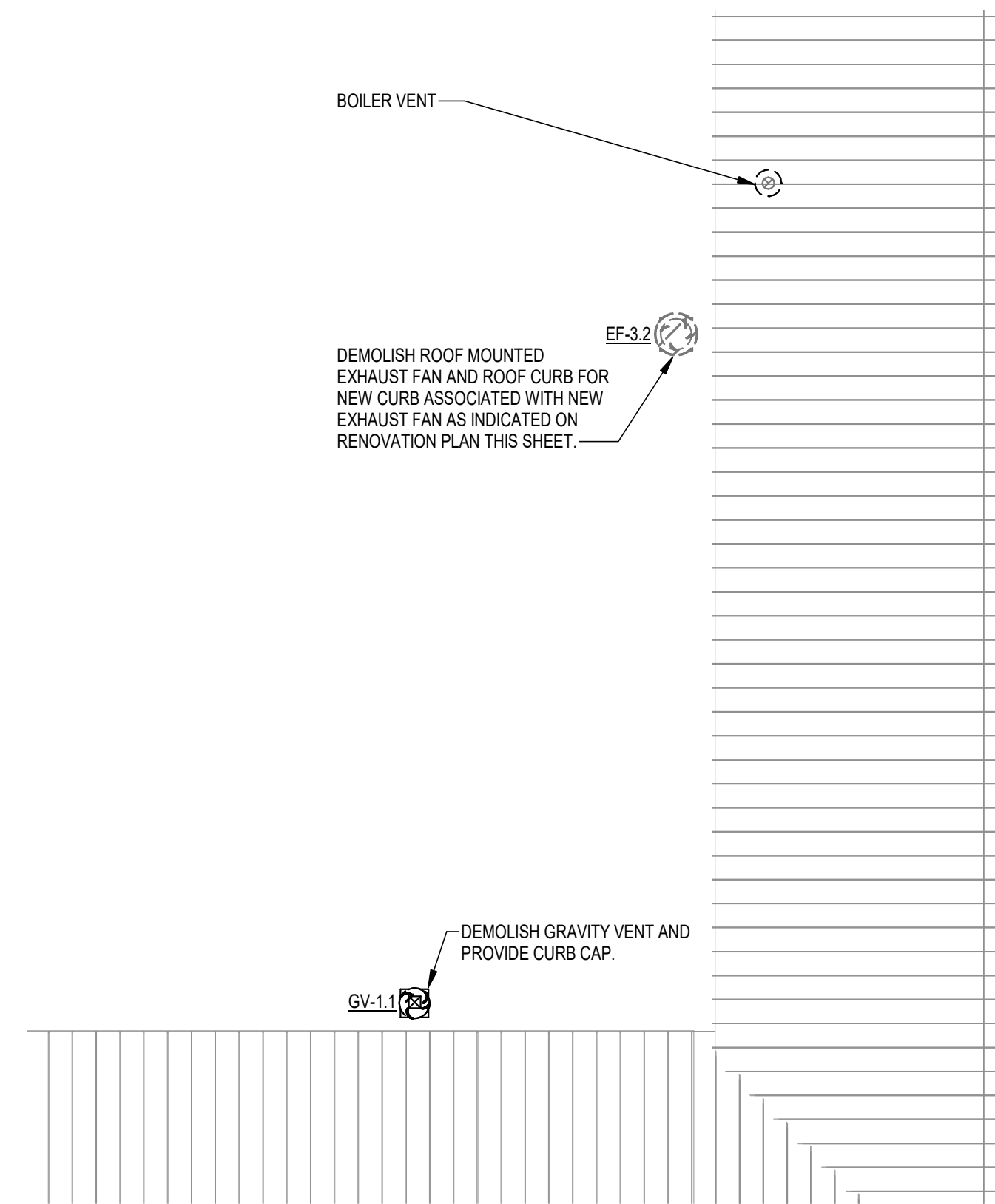
REV	DATE	DESCRIPTION

PROJECT PHASE  
CONSTRUCTION DOCUMENTS

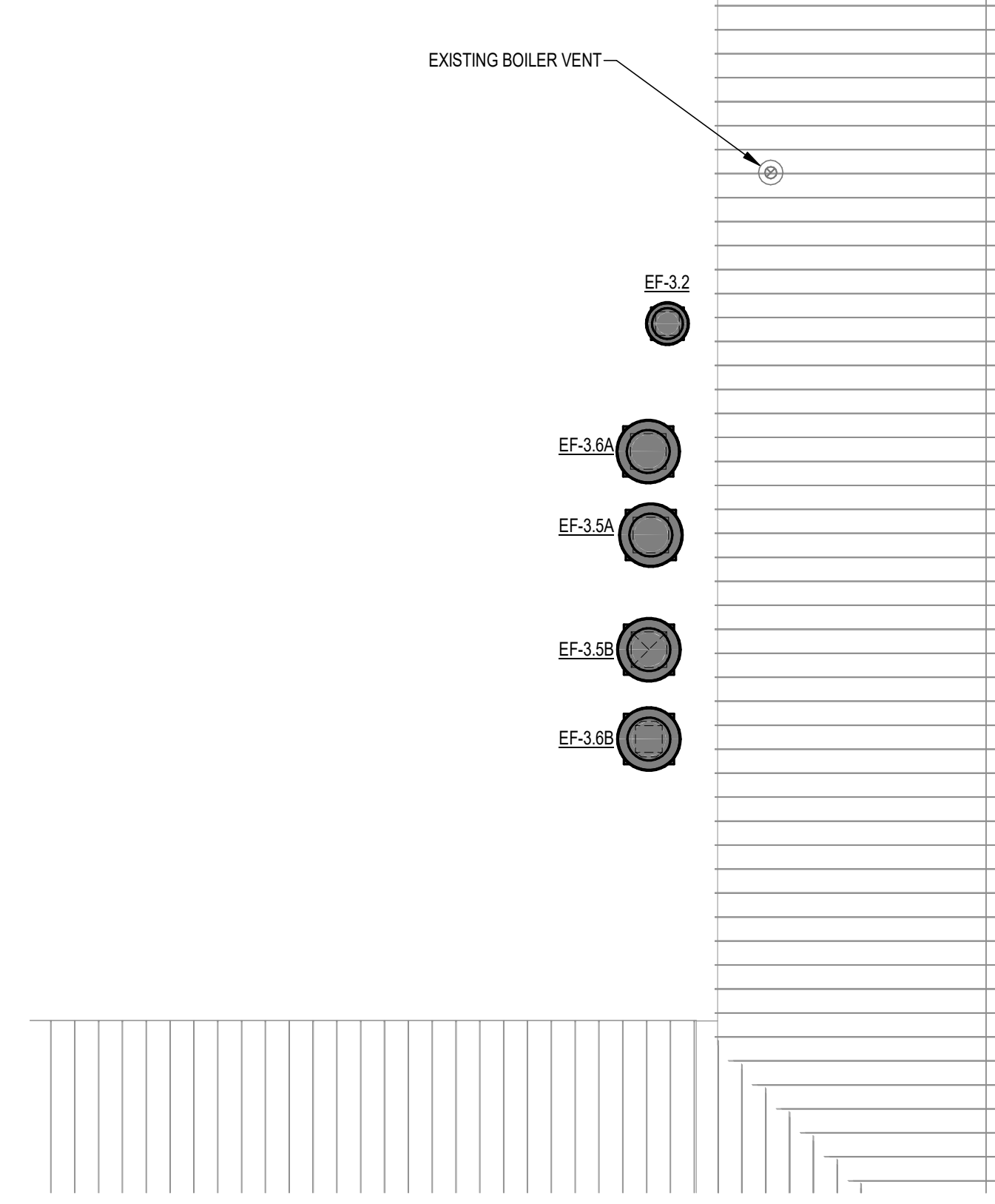
DATE 18 OCTOBER 2023	DRAWN BY SAO
PROJECT NO 74000	CHECKED BY STC

SHEET TITLE  
**ROOF PLAN**

SHEET NO <b>M104</b>	REV NO
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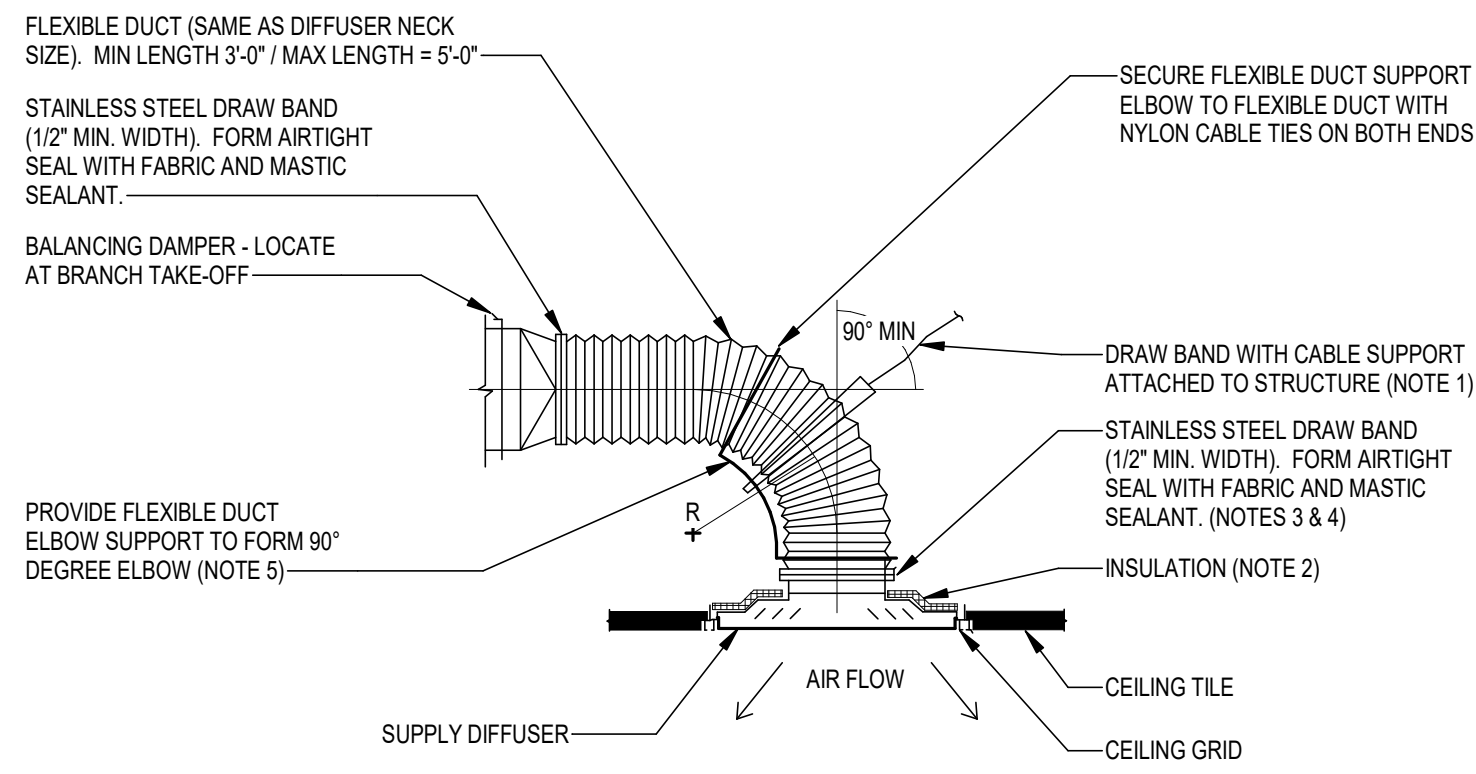
**ROOF PLAN - DEMOLITION**  
1/8" = 1'-0"  
NORTH



**ROOF PLAN - NEW CONSTRUCTION**  
1/8" = 1'-0"  
NORTH





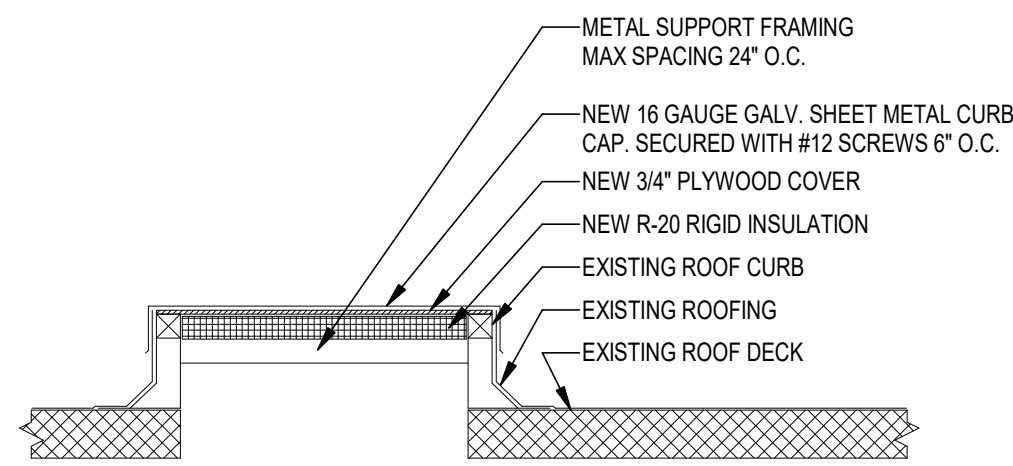


**NOTES:**

1. FLEXIBLE DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT.
2. PROVIDE INSULATION ON BACK OF DIFFUSERS (SEE SPECIFICATIONS). SEAL VAPOR TIGHT WITH FABRIC AND MASTIC.
3. PULL INNER LINER OF FLEXIBLE DUCT OVER DIFFUSER COLLAR AND SECURE WITH DRAW BAND.
4. SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH DRAW BAND.
5. MAINTAIN MINIMUM RADIUS (R) OF 1.5 TIMES THE DUCT DIAMETER.

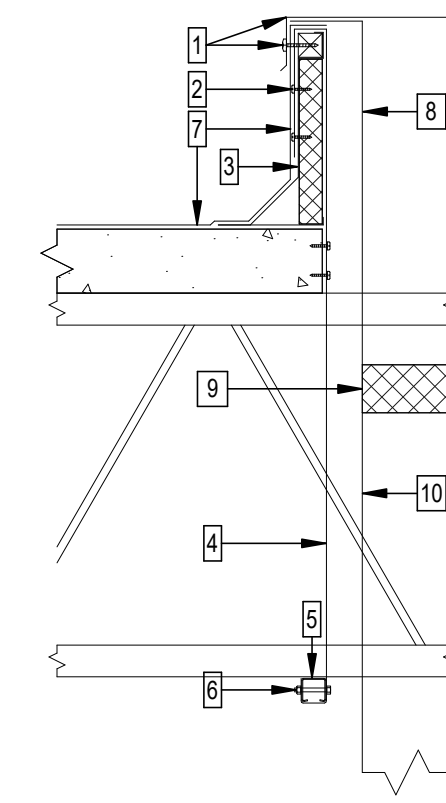
9001

**G FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER**



9071

**D ROOF CURB CAP**

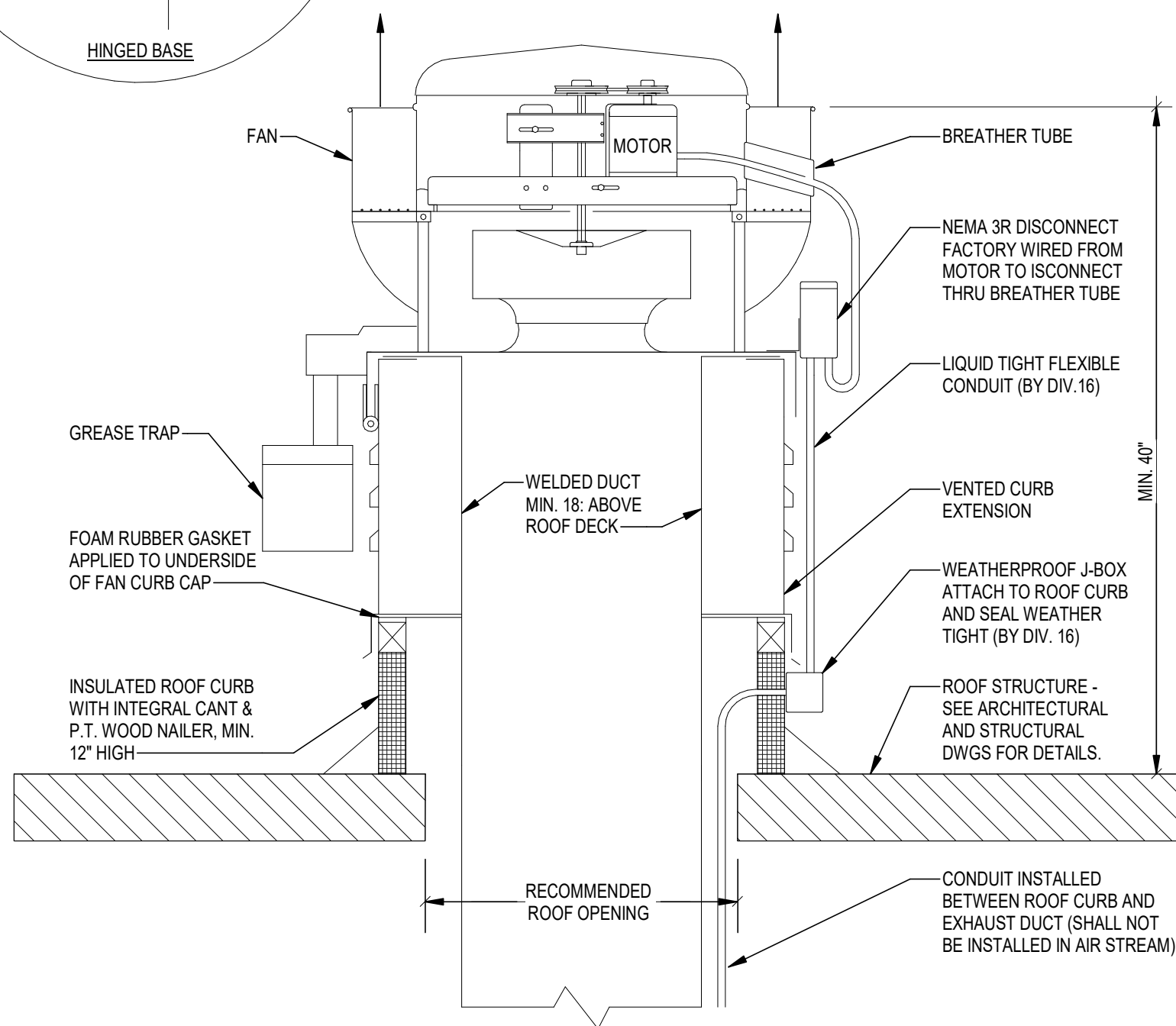
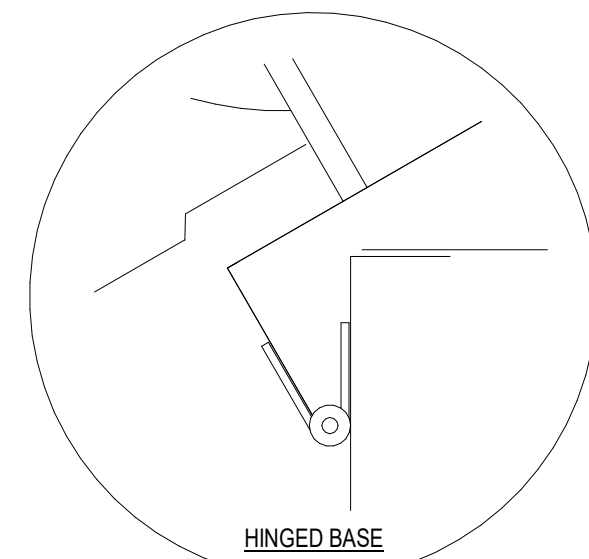


**NOTES: (THIS DETAIL ONLY)**

1. SECURE EQUIPMENT OR CURB CAP TO ROOF CURB WITH 3/8" DIA. 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 NAILED 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" CM5TC16, OR EQUAL. SECURE TO STRUCTURAL STEEL ANGLE WITH #4#12 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 NAILED 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.

9071

**A ROOF CURB AND TIE-DOWN**

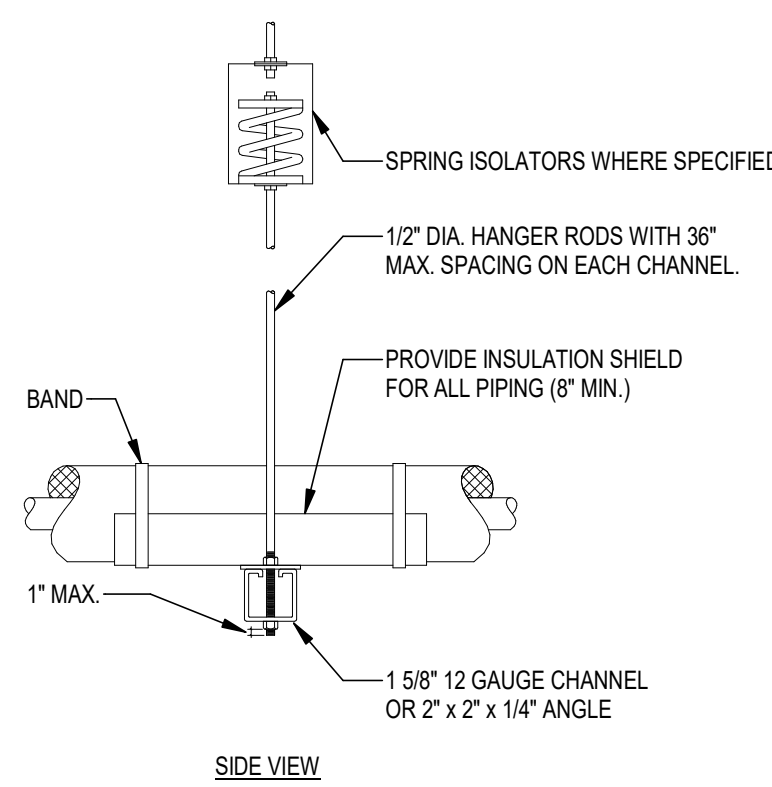
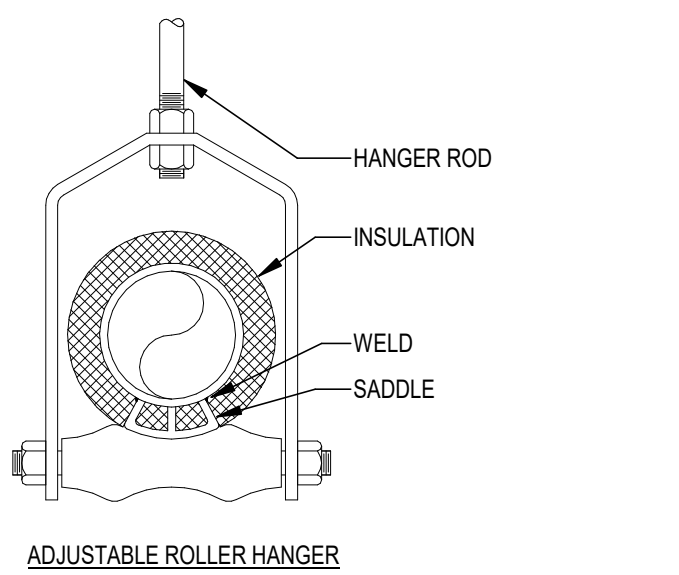
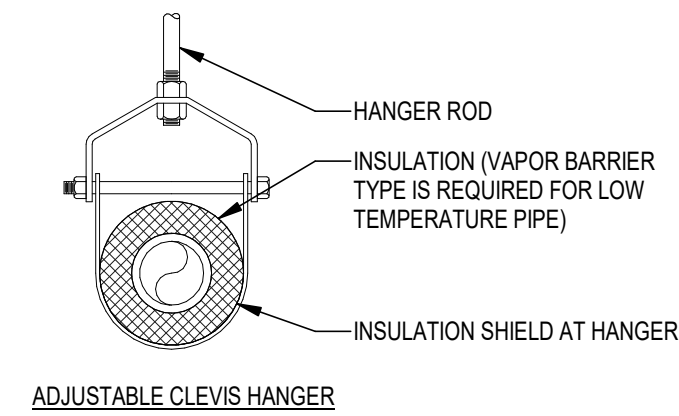


**NOTES:**

1. SECURE FAN TO CURB WITH SHEETMETAL SCREWS, 12" O.C. ALL AROUND.
2. SECURE CURB TO ROOF WITH SHEETMETAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION.
3. WIRING MUST NOT BE INSTALLED IN AIR STREAM.
4. SEE \_M2.1 FOR ROOF CURB TIE-DOWN.

9002

**H KITCHEN UPBLAST ROOF EXHAUST FAN-HINGED COVER**

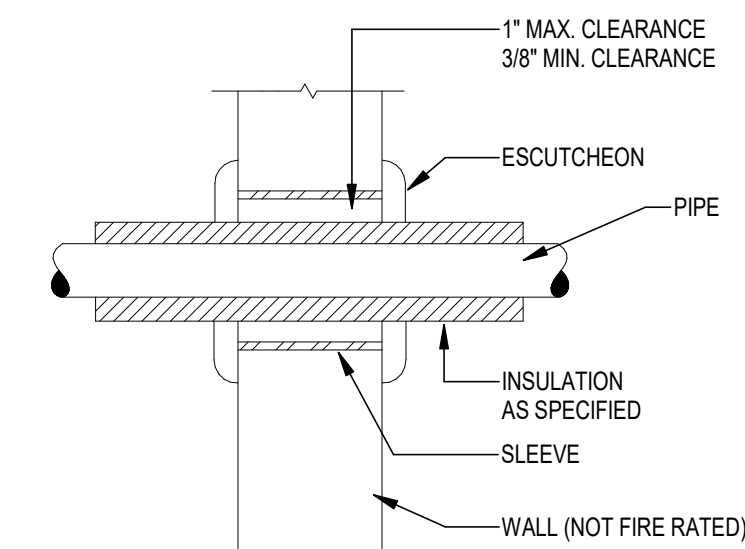


**NOTES:**

1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.
2. PROVIDE SPRING ISOLATORS FOR FIRST 3 HANGERS UP TO AND BEYOND EQUIPMENT CONNECTION AND/OR THROUGHOUT MECHANICAL ROOMS.

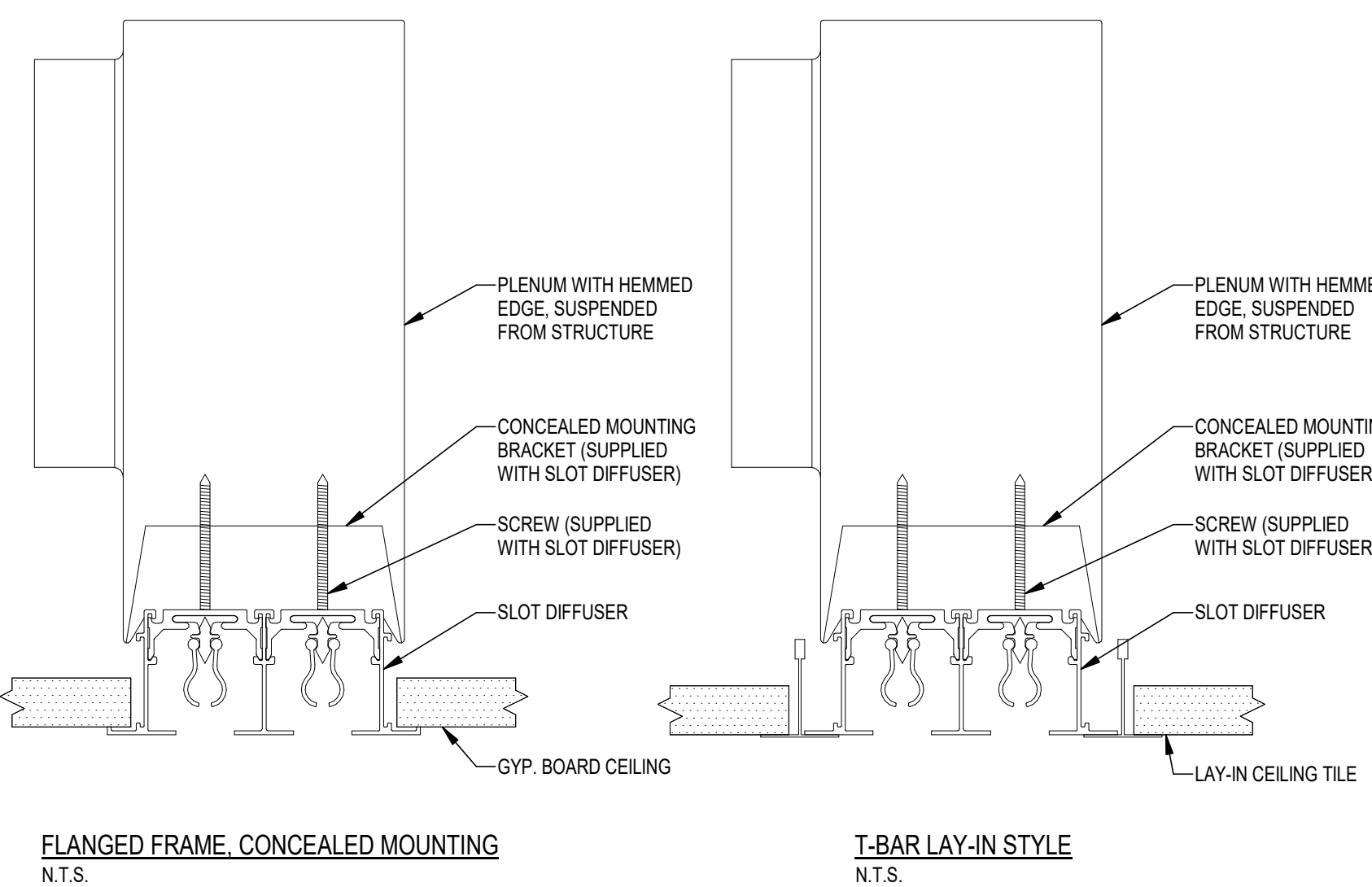
9003

**E TYPICAL PIPE HANGERS**



9002

**B PIPE PENETRATION OF NON-FIRE RATED WALL**

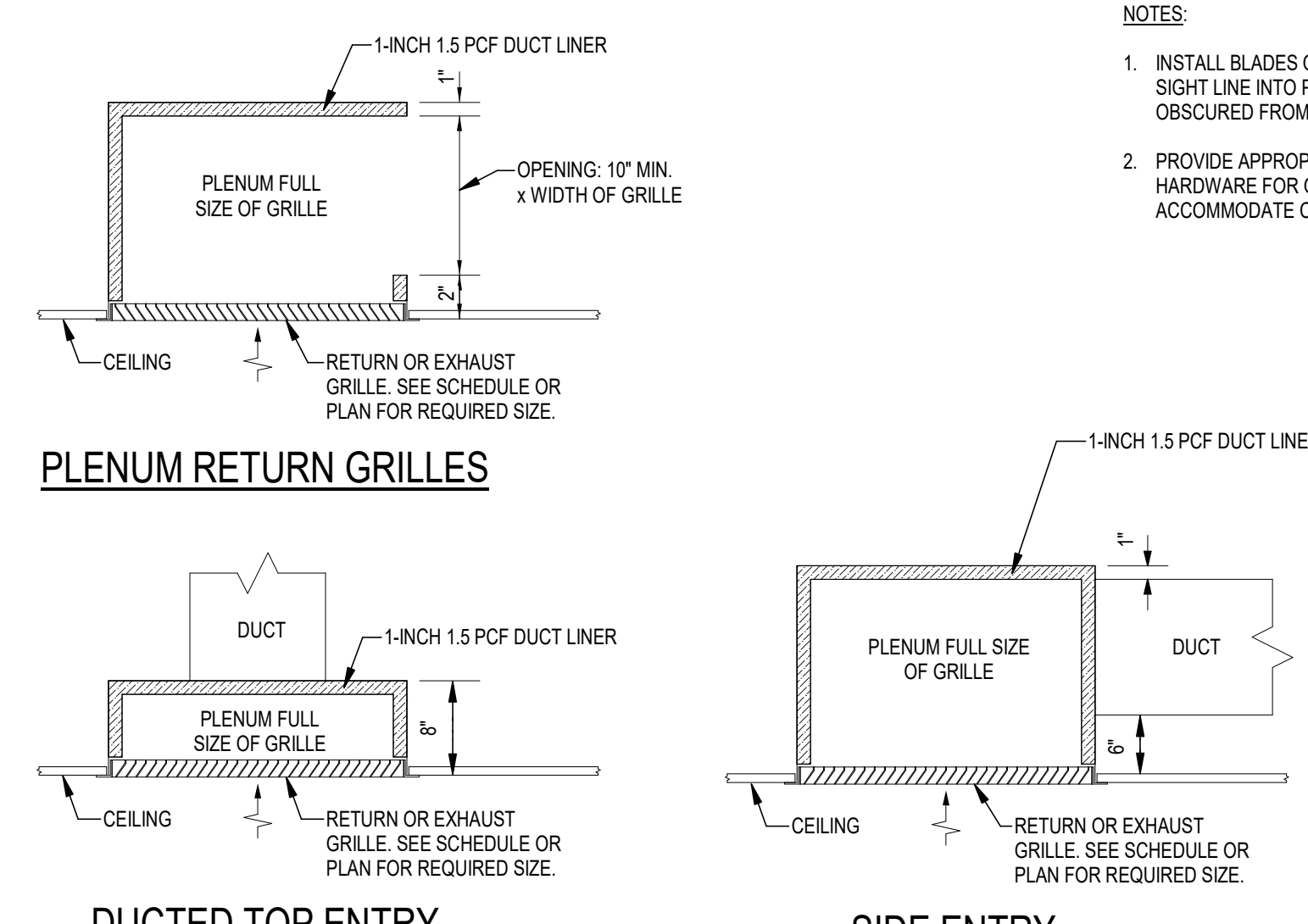


FLANGED FRAME, CONCEALED MOUNTING  
N.T.S.

T-BAR LAY-IN STYLE  
N.T.S.

9002

**F SLOT DIFFUSERS**



**PLENUM RETURN GRILLES**

**DUCTED TOP ENTRY**

**SIDE ENTRY**

**NOTES:**

1. INSTALL BLADES OF GRILLE SO SIGHT LINE INTO PLENUM IS OBSCURED FROM ROOM.
2. PROVIDE APPROPRIATE MOUNTING HARDWARE FOR GRILLE TO ACCOMMODATE CEILING TYPE.

9002

**C RETURN AND EXHAUST CEILING GRILLE**



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PLANNING INTERIORS  
GRAPHICS

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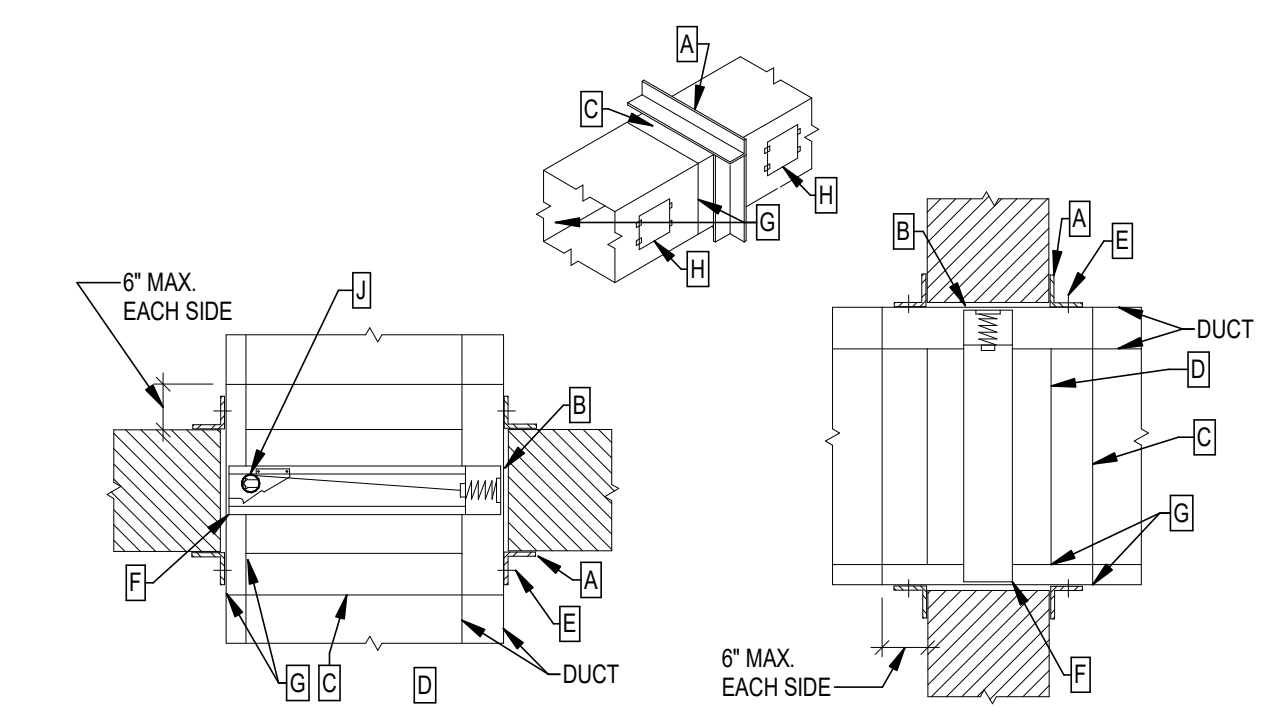
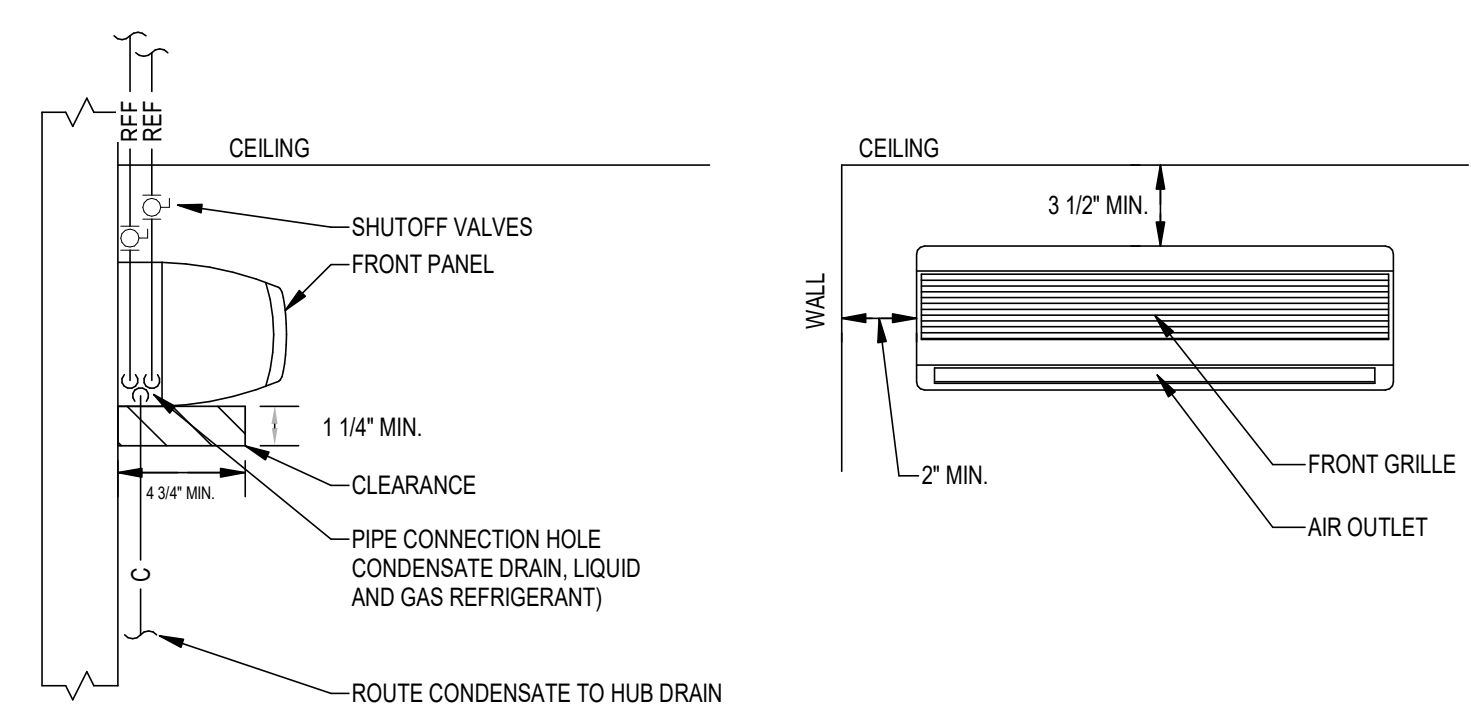
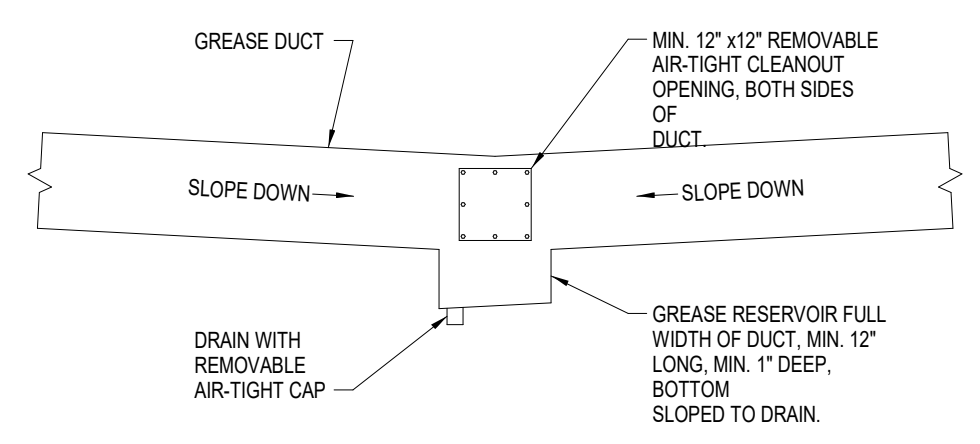
REV	DATE	DESCRIPTION

PROJECT PHASE  
CONSTRUCTION DOCUMENTS

DATE 18 OCTOBER 2023	DRAWN BY SAO
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**DETAILS**

SHEET NO <b>M501</b>	REV NO
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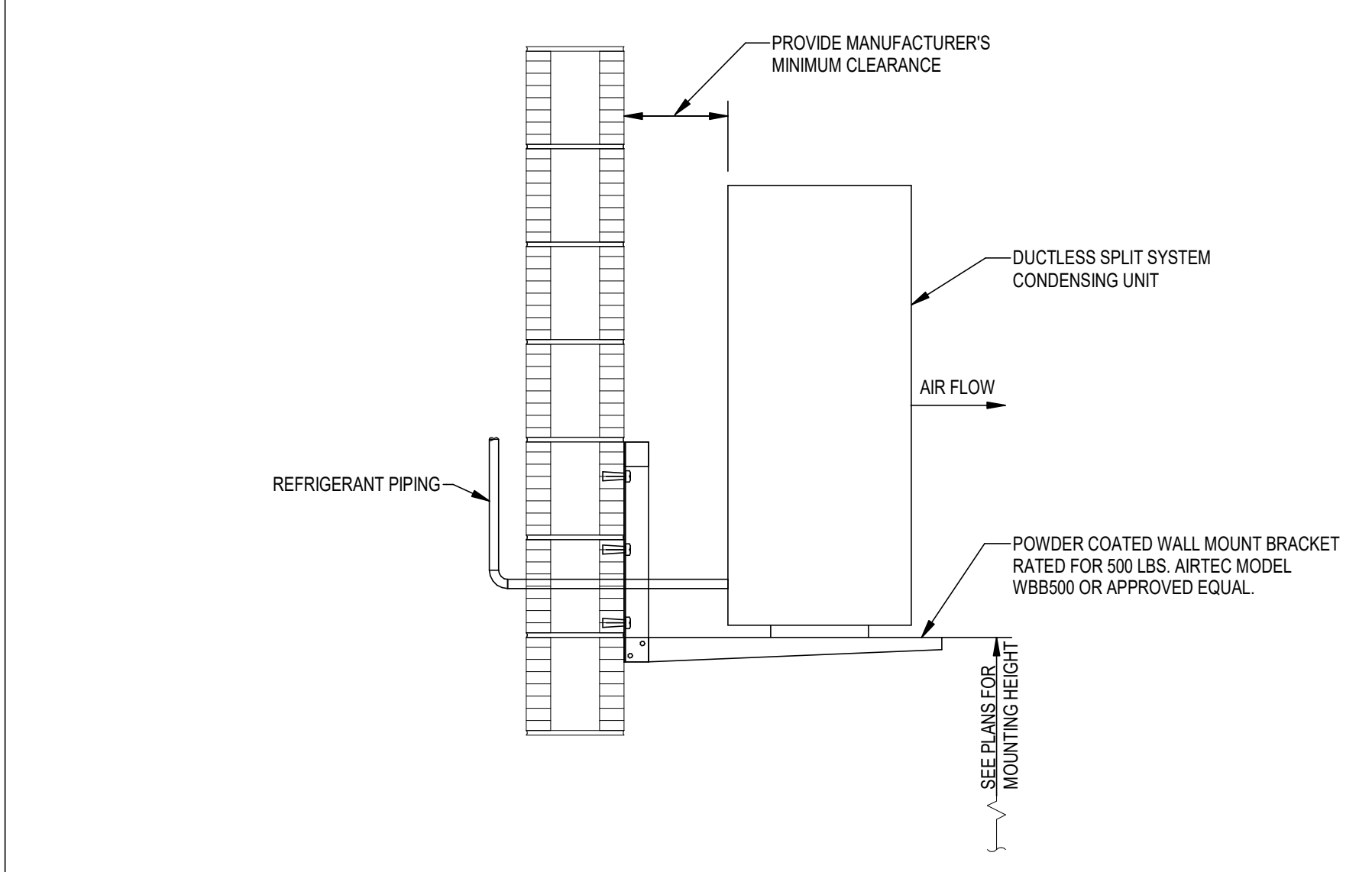
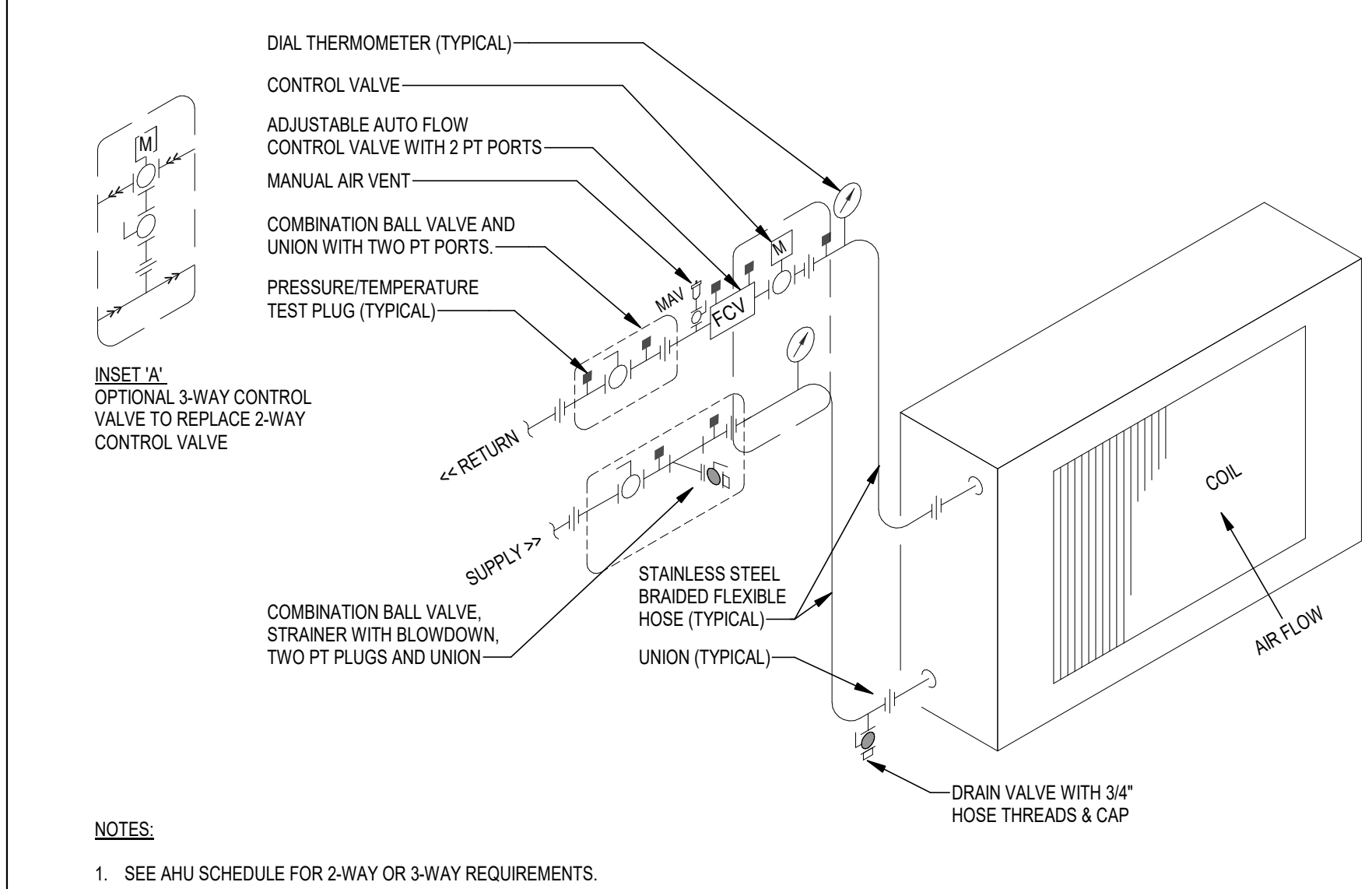


- A** RETAINING ANGLES: MINIMUM 1 1/2" x 1 1/2" x 0.054 (16 GAUGE). RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER OPENINGS OF CORNERS. CAULK THE EXTERIOR PERIMETER OF FIRE DAMPER RETAINING ANGLES WITH A THIN FILLET OF AN APPROVED CAULKING MATERIAL TO PREVENT THE PASSAGE OF SMOKE AND ALLOW MOVEMENT OF THE ANGLE.
- B** CLEARANCE: 1/8" PER LINEAR FOOT IN BOTH DIMENSIONS (SEE NOTE 1 BELOW).
- C** STEEL SLEEVE: 14 GAUGE, OR AS ALLOWED BY U.L. STANDARD 555.
- D** APPROVED FIRE DAMPER: CURTAIN OR BLADE TYPE.
- E** SECURE RETAINING ANGLES TO SLEEVE: ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.
- F** SECURE FIRE DAMPER TO SLEEVE: ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.
- G** CONNECT DUCT TO SLEEVE OR FIRE DAMPER: WITH BREAKAWAY CONNECTION.
- H** INSTALL HINGED ACCESS DOOR
- J** NEGATOR CLOSURE SPRING

- NOTES:**
- 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. THESE MUST OVERLAP THE EDGE OF THE FRAMING BY A MINIMUM OF ANGLE A. THESE MUST OVERLAP THE EDGES 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.
  - 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.

**F GREASE DUCT DRAIN**

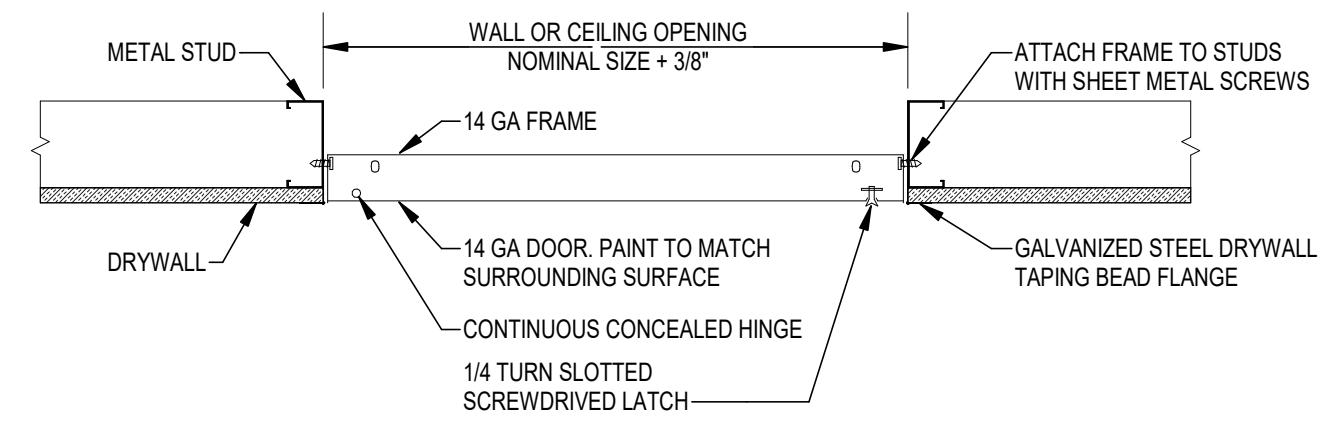
**C DUCTLESS - WALL MOUNTED INDOOR UNIT**



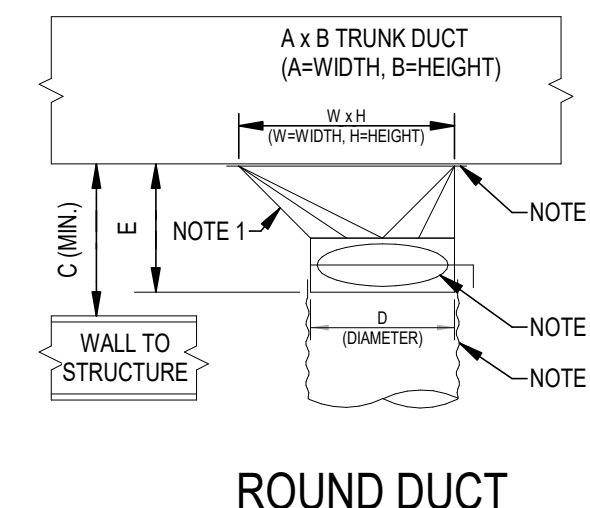
**G COIL PIPING FOR VVTs AND FCUs**

**D DUCTLESS SPLIT SYSTEM - CONDENSING UNIT**

**A FIRE DAMPER INSTALLATION**



- NOTES:**
- ACCESS DOOR SHALL BE NOMINAL 24"x24" UNLESS NOTED OTHERWISE.
  - LOCATE DOOR IN CEILING OR WALL TO ALLOW UNOBSTRUCTED ACCESS TO EQUIPMENT, DAMPERS, ETC. AND NOT IN CONFLICT WITH LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
  - ACCESS PANELS LOCATED IN SECURE CEILINGS SHALL BE SECURITY TYPE.



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:**
- 45° ENTRY.
  - 1" WIDE FLANGE WITH GASKET SEAL AROUND ENTIRE PERIMETER.
  - PROVIDE MANUAL BALANCING DAMPER. OPERATOR SHALL PENETRATE INSULATION.
  - USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.

- L = W/4 (4" MIN.)  
H = B-2 (MAX.)  
C = L+4 (WITH FIRE DAMPER)  
C = L+2 (WITHOUT FIRE DAMPER)

**E EQUIPMENT ACCESS PANEL**

**B TYPICAL DUCT TAKE-OFF FITTINGS**

**H2 ENGINEERING**  
114 EAST 5th AVENUE  
TALLAHASSEE, FL 32303  
PHONE 850.224.7922  
www.H2Engineering.com

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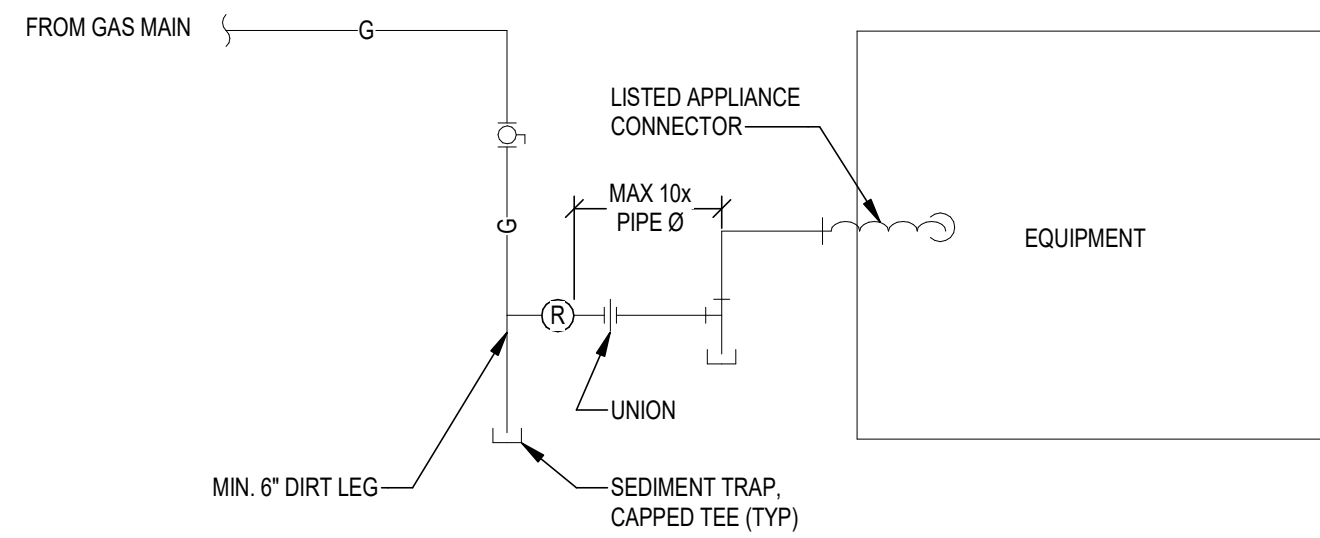
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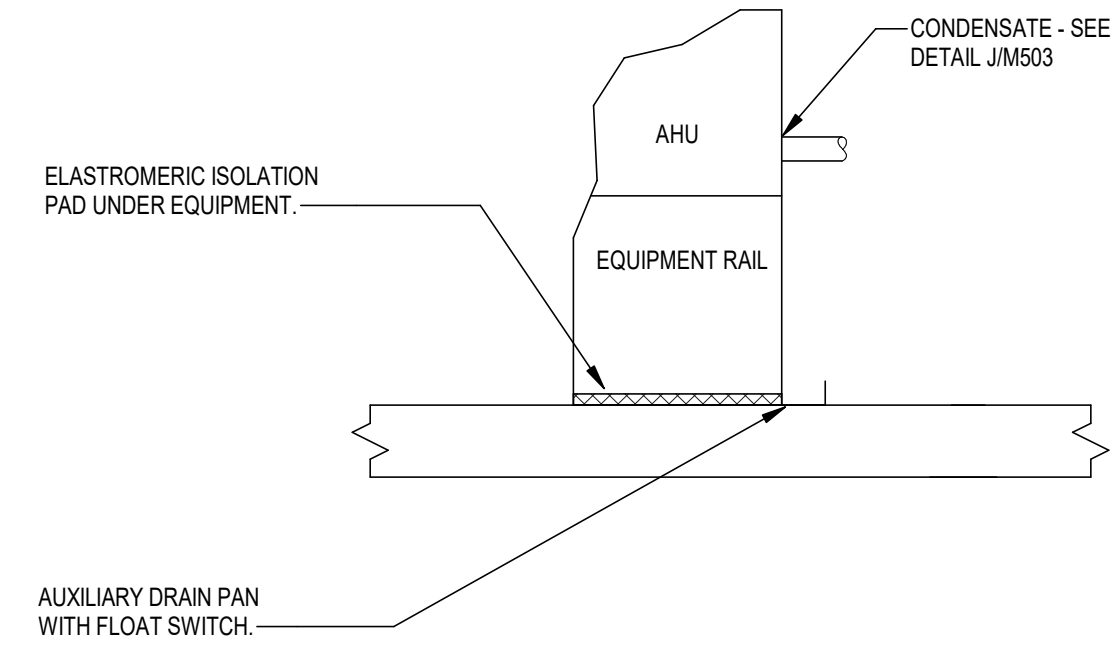
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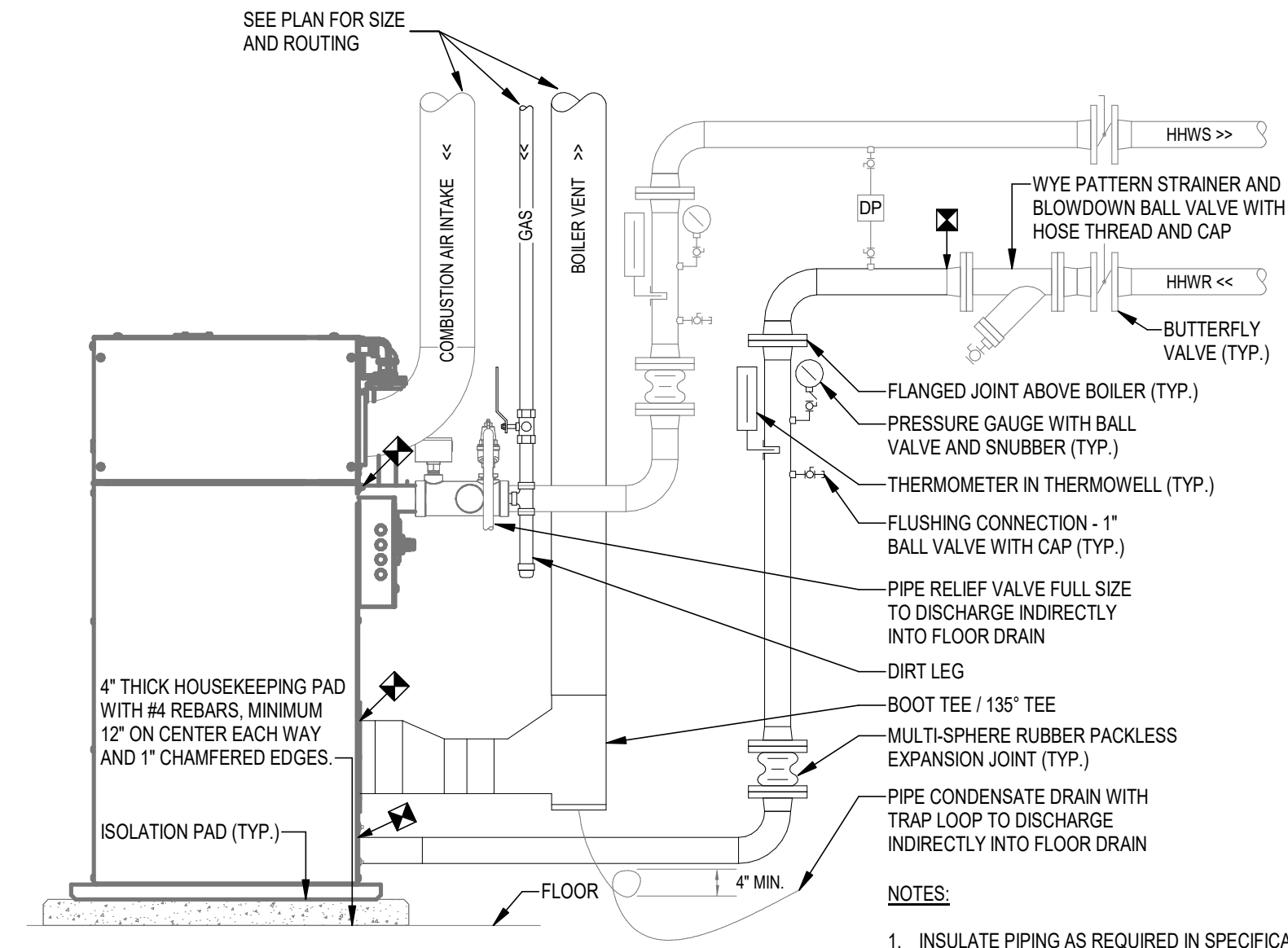
SHEET TITLE  
**DETAILS**



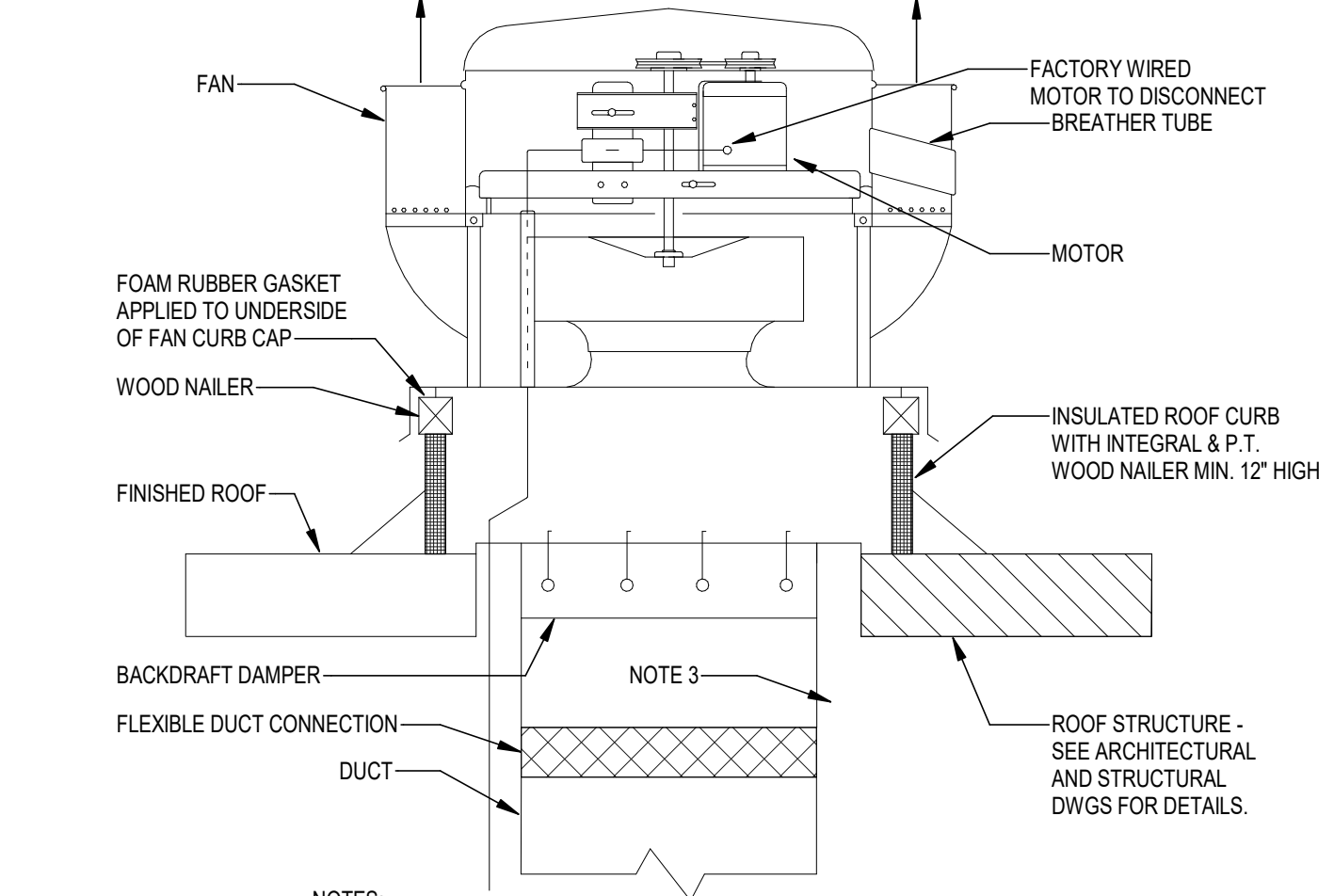
**G GAS APPLIANCE CONNECTION**



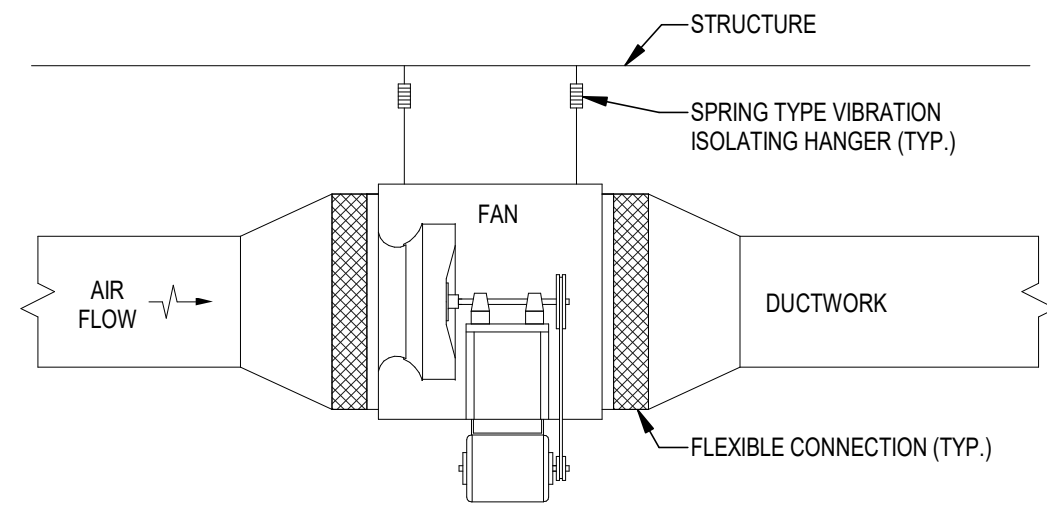
**D AHU EQUIPMENT PAD**



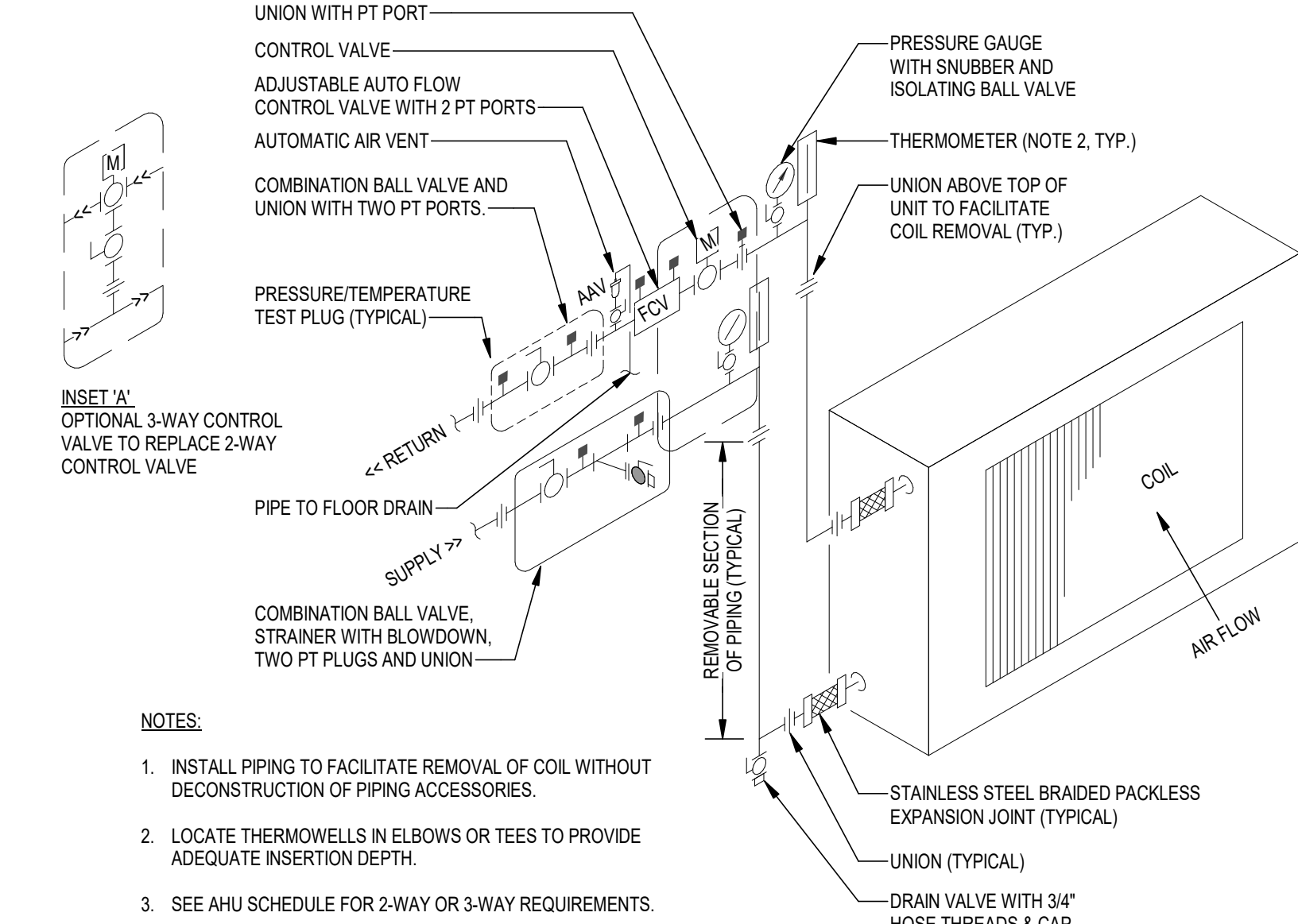
**A HOT WATER BOILER**



**H UPBLAST ROOF EXHAUST FAN**



**E IN-LINE FAN**

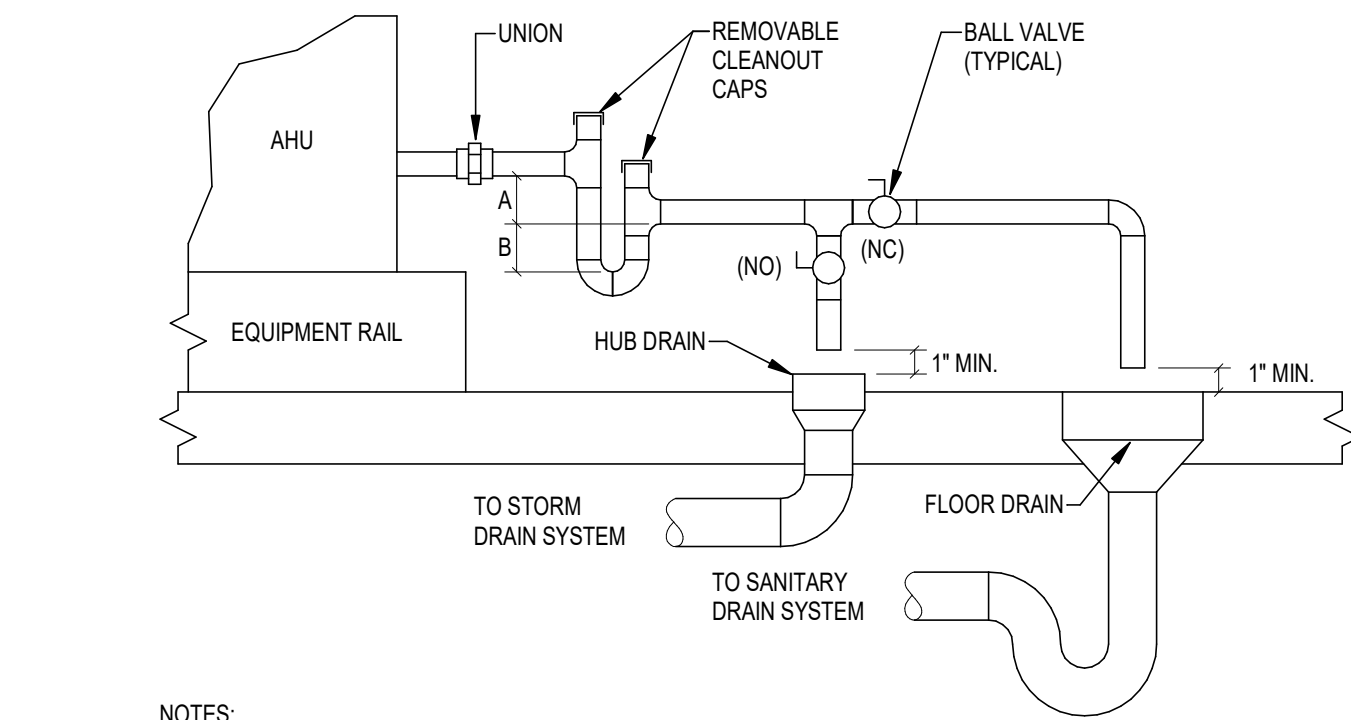


**B AHU COIL PIPING (2" AND SMALLER)**

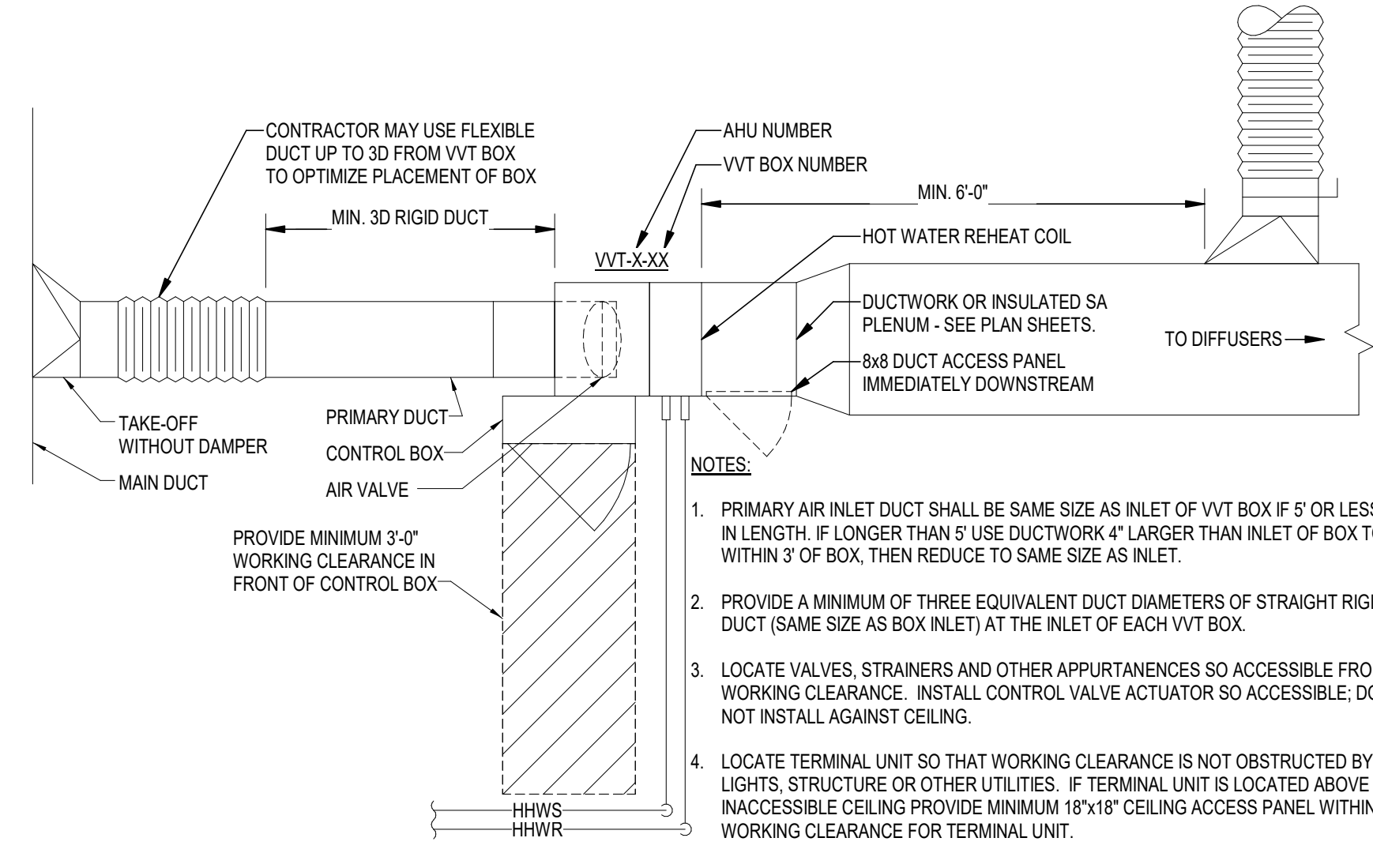
- NOTES:**
1. SECURE FAN TO CURB AS NECESSARY TO MEET CODE REQUIRED WIND LOADING.
  2. SECURE CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION AS NECESSARY TO MEET CODE REQUIRED WIND LOADING.
  3. MINIMUM 1 1/4" CLEARANCE FOR ELECTRICAL CONDUIT

- NOTES:**
1. INSTALL TO ALLOW ACCESS FOR MAINTENANCE.
  2. PROVIDE DIRECT DRIVE FAN WHERE SCHEDULED.

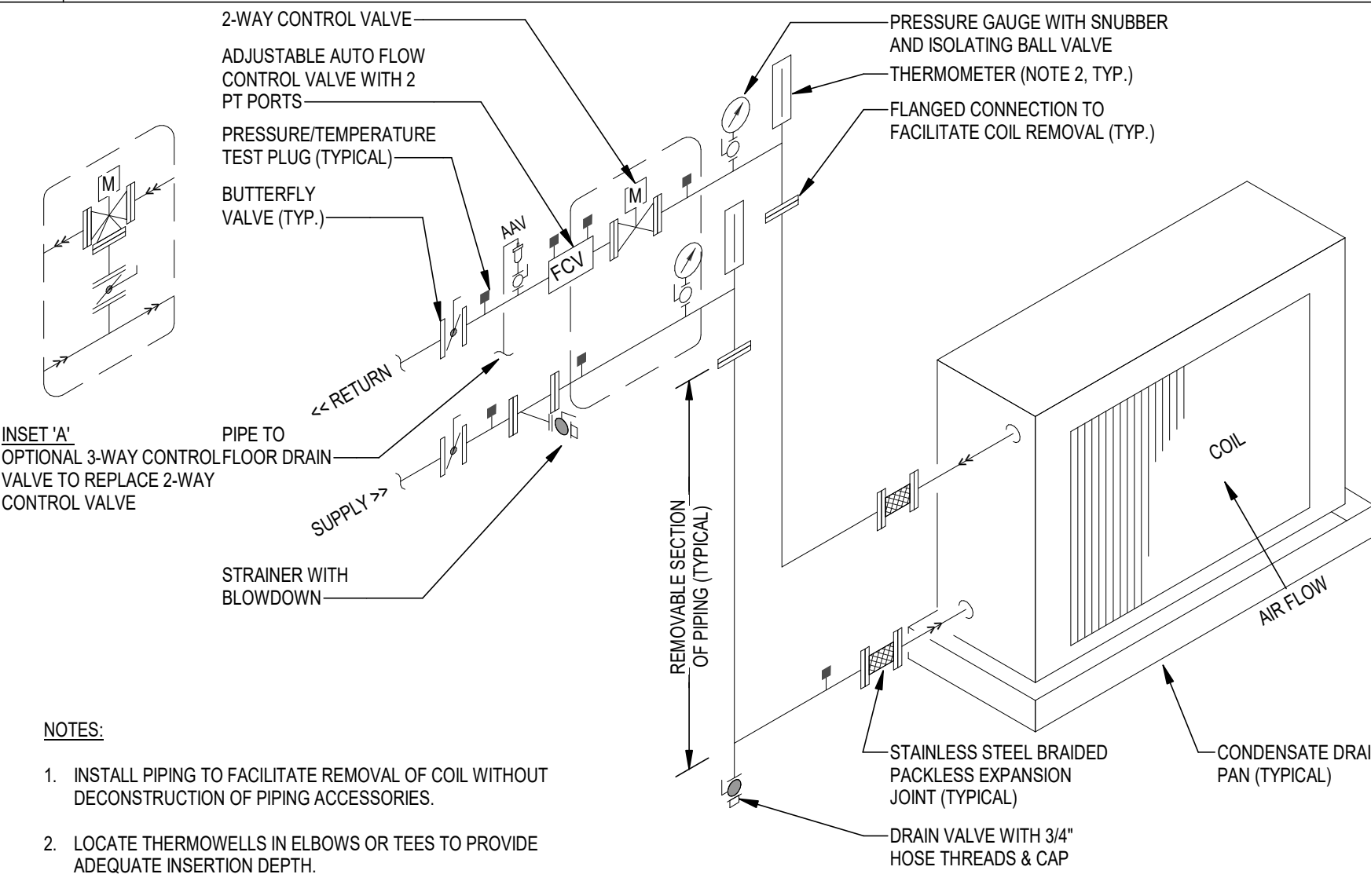
- NOTES:**
1. INSTALL PIPING TO FACILITATE REMOVAL OF COIL WITHOUT DECONSTRUCTION OF PIPING ACCESSORIES.
  2. LOCATE THERMOWELLS IN ELBOWS OR TEES TO PROVIDE ADEQUATE INSERTION DEPTH.
  3. SEE AHU SCHEDULE FOR 2-WAY OR 3-WAY REQUIREMENTS.



**J CONDENSATE DRAIN**



**F VARIABLE VOLUME TERMINAL UNIT**



**C AHU COIL PIPING (1/2" AND LARGER)**

- NOTES:**
1. DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN (1" MIN.)
  2. DRAIN LINE SHALL SLOPE 1/8" PER FOOT (MIN.)
  3. SEE SPECIFICATIONS FOR PIPE AND INSULATION MATERIALS.

UNIT TYPE	A	B
DRAW-THRU	X PLUS 2"	X
BLOW-THRU	1" MIN.	2X

WHERE X=STATIC PRESSURE IN PAN

- NOTES:**
1. PRIMARY AIR INLET DUCT SHALL BE SAME SIZE AS INLET OF VVT 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 VVT BOX.
  3. LOCATE VALVES, STRAINERS AND OTHER APPURTANANCES SO ACCESSIBLE FROM 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.

- NOTES:**
1. INSTALL PIPING TO FACILITATE REMOVAL OF COIL WITHOUT DECONSTRUCTION OF PIPING ACCESSORIES.
  2. LOCATE THERMOWELLS IN ELBOWS OR TEES TO PROVIDE ADEQUATE INSERTION DEPTH.
  3. SEE AHU SCHEDULE FOR 2-WAY OR 3-WAY REQUIREMENTS.



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www.emiarch.com  
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NOTE:  
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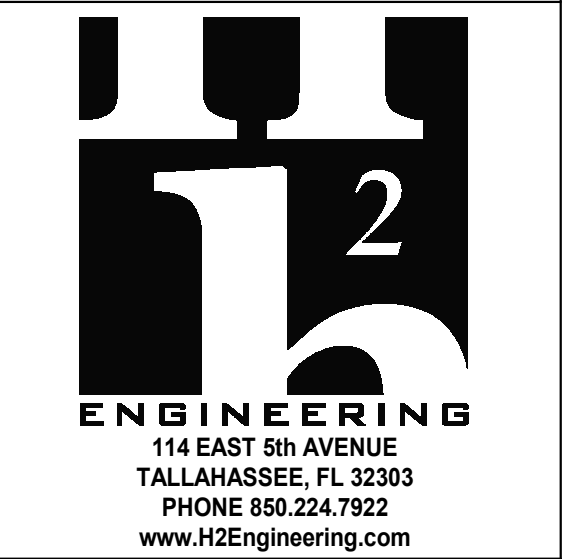
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CONSTRUCTION DOCUMENTS

DATE 18 OCTOBER 2023	DRAWN BY SAO
PROJECT NO 74000	CHECKED BY STC

SHEET TITLE  
**DETAILS**

SHEET NO <b>M503</b>	REV NO
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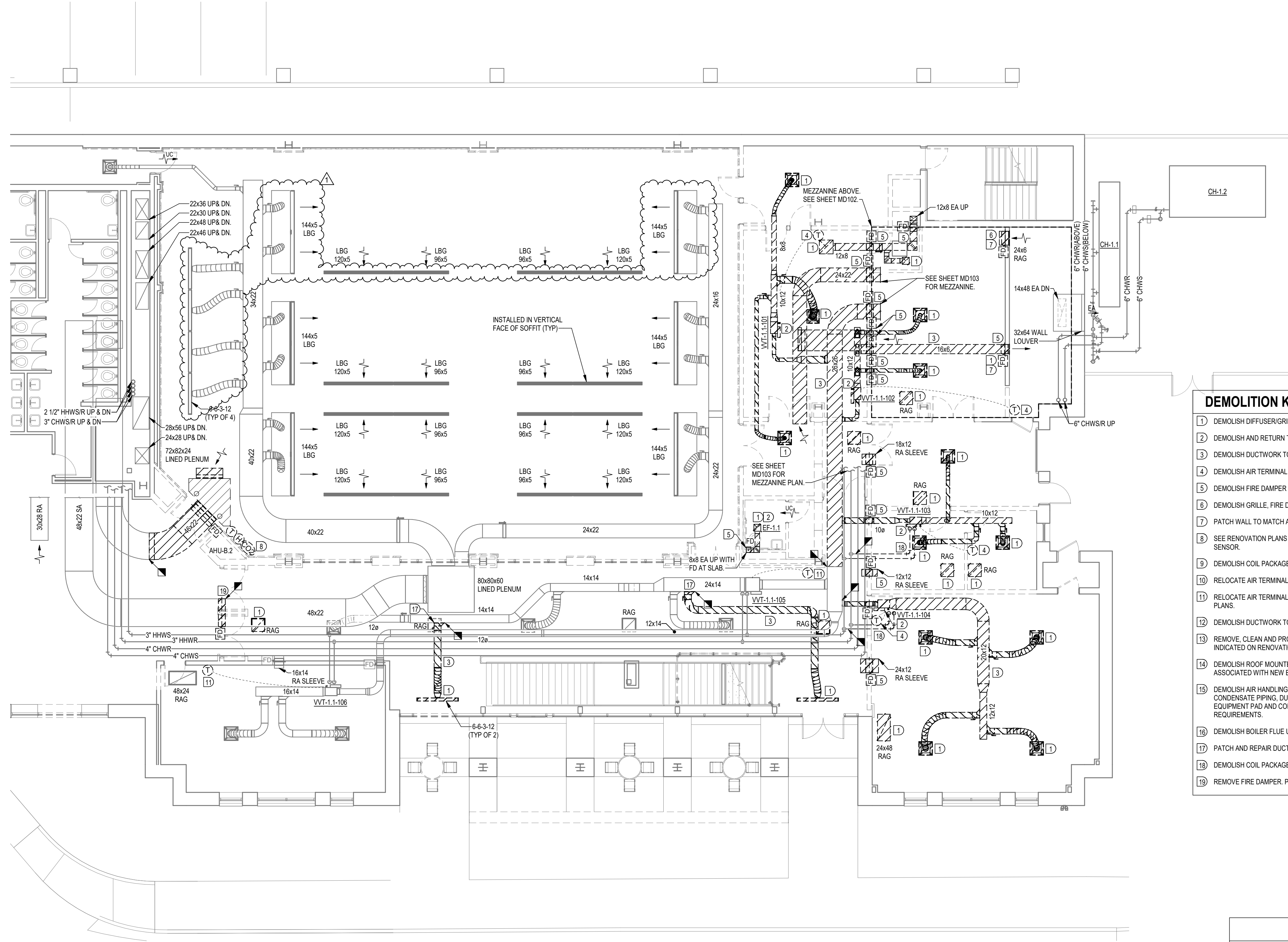
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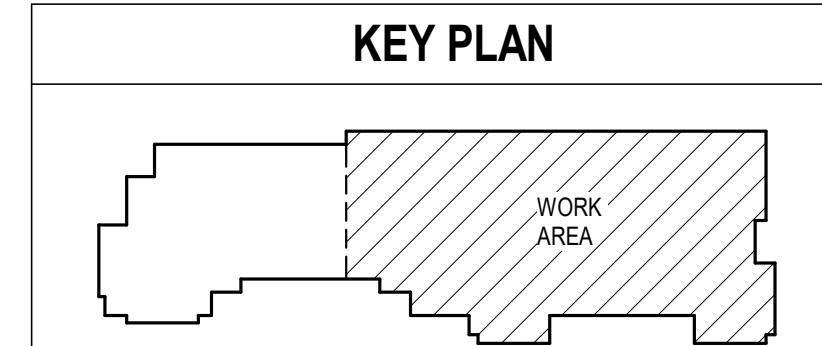
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- 1 DEMOLISH DIFFUSER/GRILLE.
- 2 DEMOLISH AND RETURN TO OWNER OR DISPOSE OF AS DIRECTED BY THE OWNER.
- 3 DEMOLISH DUCTWORK TO LIMIT INDICATED.
- 4 DEMOLISH AIR TERMINAL TEMPERATURE SENSOR.
- 5 DEMOLISH FIRE DAMPER AND ASSOCIATED DUCTWORK.
- 6 DEMOLISH GRILLE, FIRE DAMPER AND ASSOCIATED DUCTWORK.
- 7 PATCH WALL TO MATCH ADJACENT SURFACE. SEE ARCHITECTURAL PLANS.
- 8 SEE RENOVATION PLANS FOR RELOCATED THERMOSTAT, HUMIDISTAT AND CO2 SENSOR.
- 9 DEMOLISH COIL PACKAGE AND HYDRONIC PIPING TO LIMITS INDICATED.
- 10 RELOCATE AIR TERMINAL UNIT AS INDICATED ON RENOVATION PLAN.
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**FIRST FLOOR PLAN - DEMOLITION**  
1/8" = 1'-0"  
NORTH

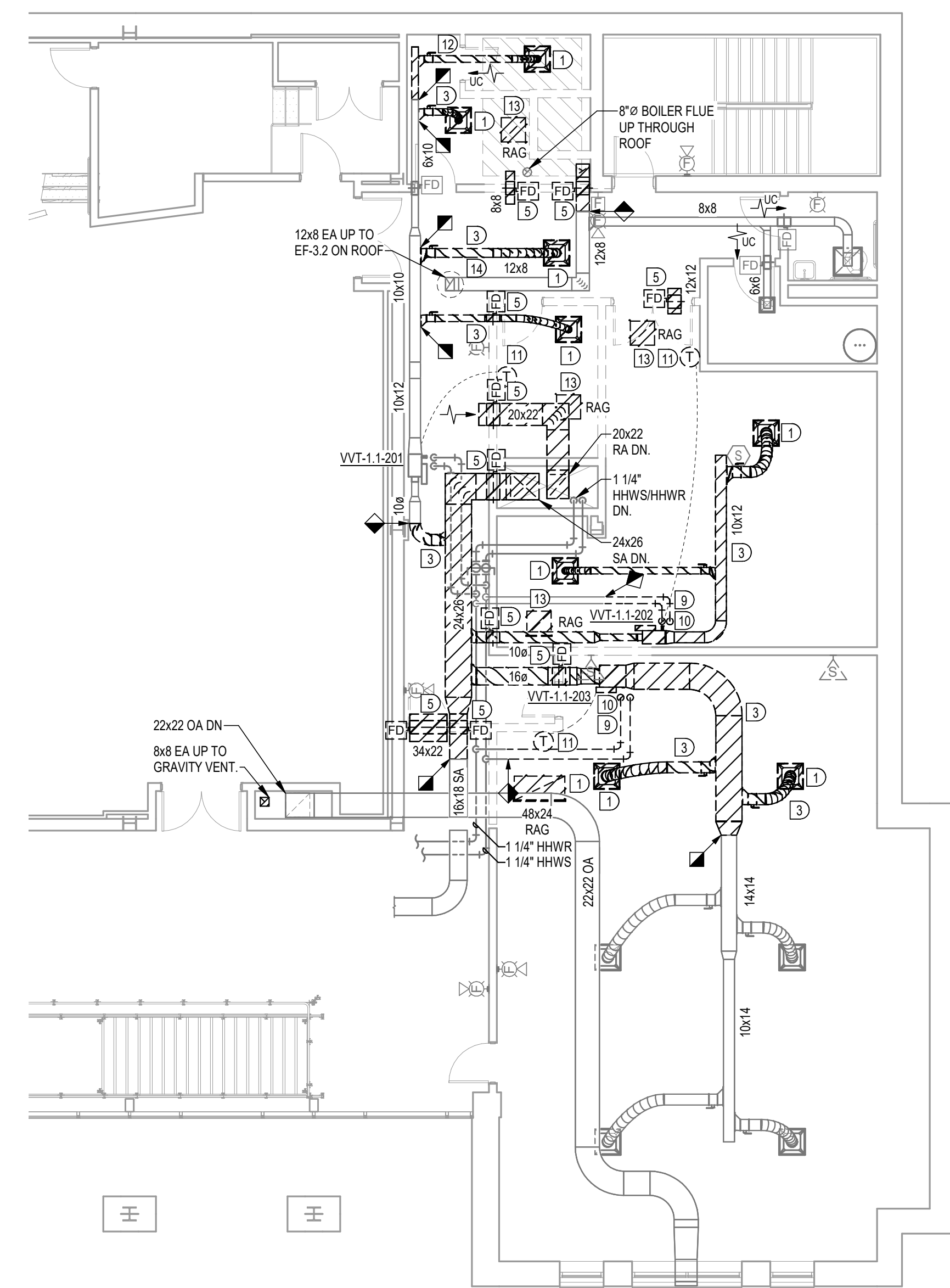


**FIRST FLOOR PLAN -  
DEMOLITION**

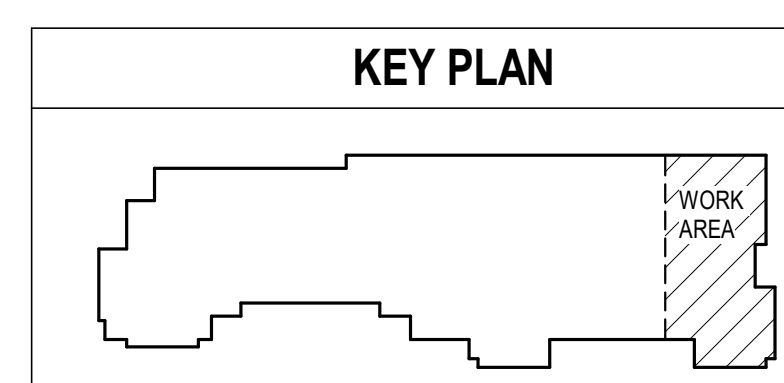
SHEET NO **MD101** REV NO

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**2ND FLOOR PLAN - DEMOLITION**  
1/8" = 1'-0"  
NORTH



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GRAPHICS  
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251 E. 7TH AVENUE TALLAHASSEE FL 32303  
(850) 222-7442  
www.emiarch.com  
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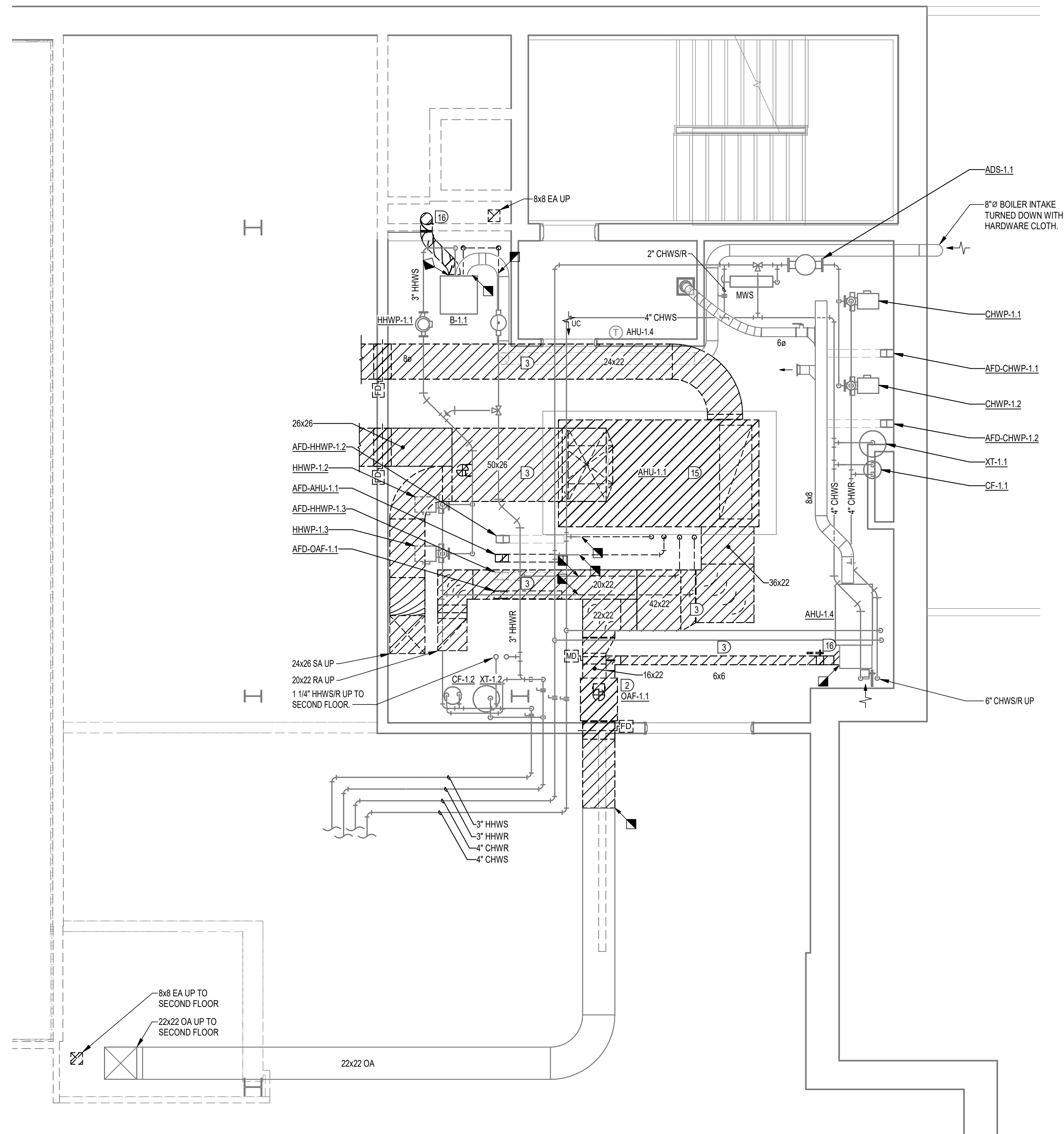
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SHEET TITLE  
**2ND FLOOR PLAN -  
DEMOLITION**

SHEET NO <b>MD102</b>	REV NO
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**MEZZANINE - DEMOLITION PLAN**  
1/4" = 1'-0"  
NORTH

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**FSU TURNBULL  
CONFERENCE CENTER  
RENOVATIONS**

REV	DATE	DESCRIPTION

PROJECT PHASE  
CONSTRUCTION DOCUMENTS

DATE	DRAWN BY
18 OCTOBER 2023	SAO
PROJECT NO	CHECKED BY
74000	STC

SHEET TITLE  
**MEZZANINE FLOOR  
PLAN - DEMOLITION**

SHEET NO	REV NO
<b>MD103</b>	

