

PRELIMINARY
30% REVIEW

Hight Jackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

An Addition for BWHS
BWHS Band Addition
1351 GAMBLE RD CENTERTON, AR

DRAWN BY:
RJK
CHECK BY:
NEW
ISSUE DATE:
02/02/2026

PROJECT NO:
2421

REVISION DATES

HVAC NOTES, LEGEND, DETAILS

SHEET
M1.1

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HSA JOB # 25-200

GENERAL HVAC NOTES

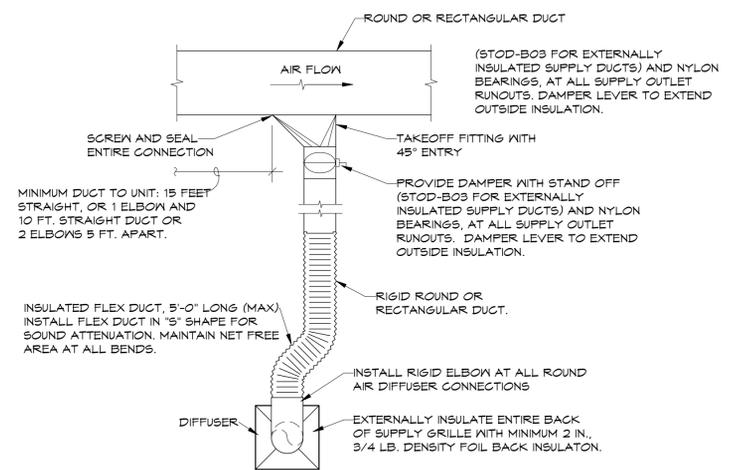
- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
- INDICATED DUCT SIZES ARE NET FREE AREA.
- ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLENUMS AND EXHAUST AIR PLENUMS WITH 2 IN. 3/4 LB DENSITY FOIL BACKED INSULATION.
- EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- INTERIOR OF ALL DUCT PLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
- USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
- PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
- SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
- FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
- SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
- SPRINKLER CONTRACTOR TO BE RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

MECHANICAL LEGEND

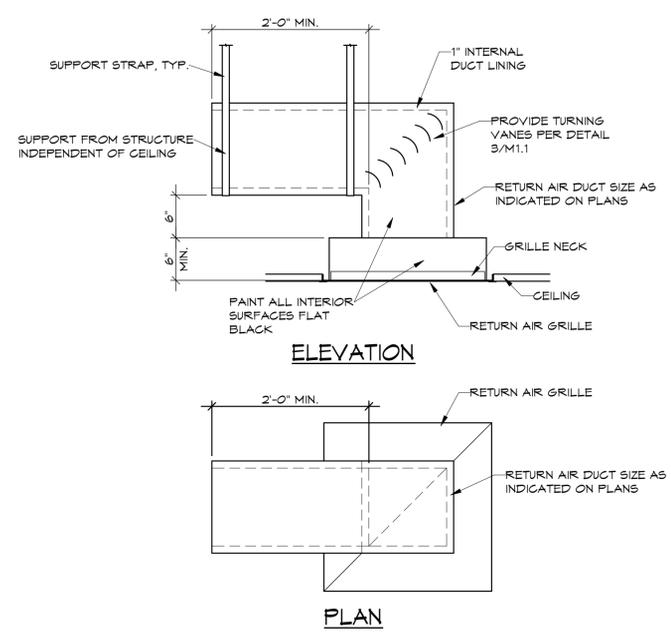
	SUPPLY DUCT SECTION		SUPPLY, RETURN, OR EXHAUST DUCT
	RETURN OR EXHAUST DUCT SECTION		SPIRAL SUPPLY DUCT
	CEILING SUPPLY GRILLE		EXISTING SUPPLY, RETURN, OR EXHAUST DUCT
	CEILING RETURN GRILLE		DEMO DUCT
	CEILING EXHAUST GRILLE		VOLUME DAMPER
	SIDEWALL SUPPLY OR RETURN GRILLE		FLEX DUCT CONNECTION MAXIMUM OF 5 FT.
	SEE KEYED NOTES		THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES VAV BOX OR AIR HANDLER UNIT)

MECHANICAL PIPING LEGEND

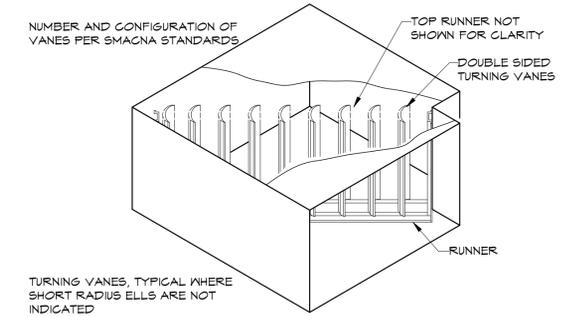
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	EXISTING HOT WATER SUPPLY PIPING
	EXISTING HOT WATER RETURN PIPING
	PIPING TO BE REMOVED
	BALL VALVE
	CONTROL VALVE
	3-WAY CONTROL VALVE



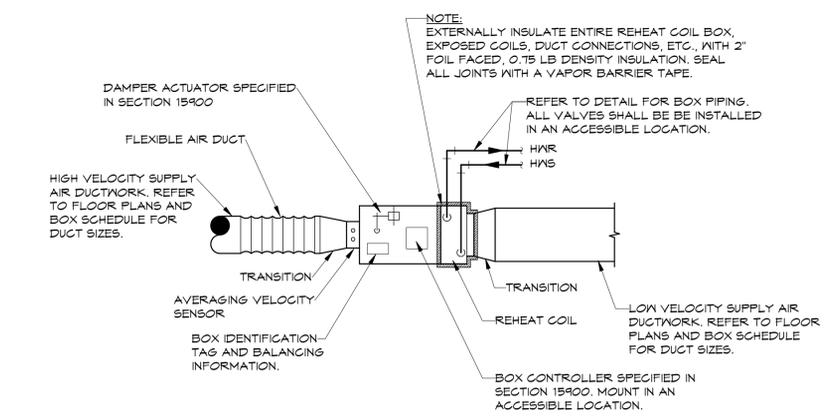
1 SUPPLY DUCT CONNECTION DETAIL
NTS



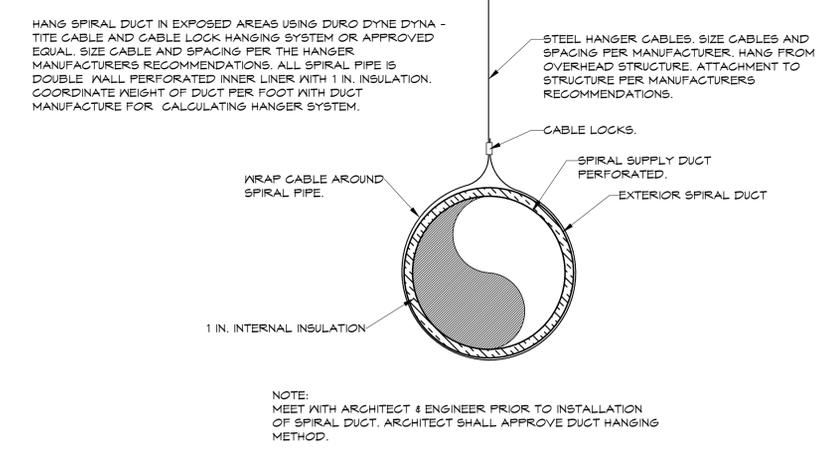
3 RETURN AIR GRILLE BOOT DETAIL
NTS



4 TURNING VANE DETAIL
NTS



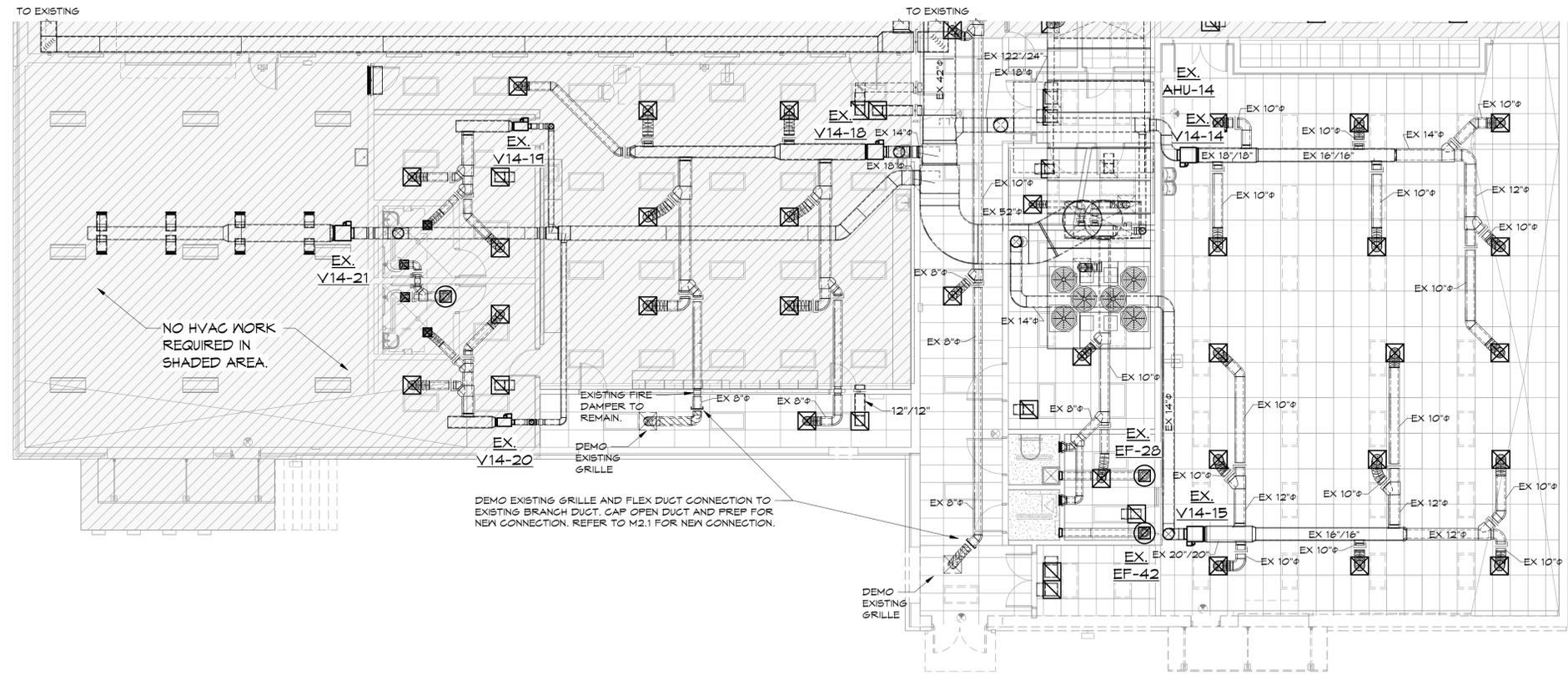
5 HOT WATER REHEAT BOX DETAIL
NTS



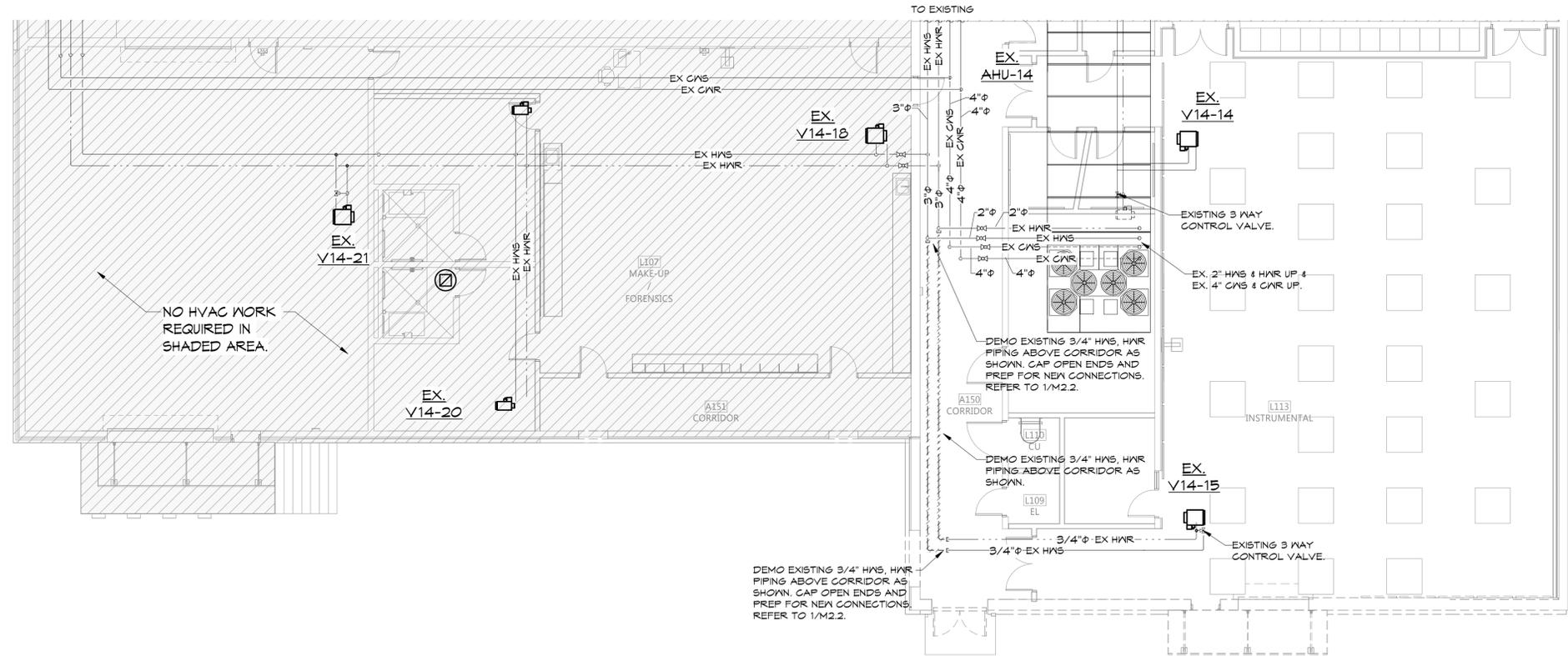
6 CONCEALED SPIRAL DUCT SUPPORT DETAIL
NTS

NOTE:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGENDS, DETAILS.
REFER TO SHEET M2.0 FOR HVAC DEMO PLANS.
REFER TO SHEET M2.1 FOR HVAC PLANS & SCHEDULES.
REFER TO SHEET M2.2 FOR MECHANICAL PIPING PLANS.

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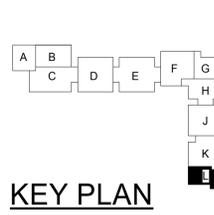
1 FIRST FLOOR - HVAC DEMO PLAN
1/8" = 1'-0"



2 FIRST FLOOR - MECHANICAL PIPING DEMO PLAN
1/8" = 1'-0"



NOTE:
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MECHANICAL DEMOLITION PLAN
SHEET
M2.0
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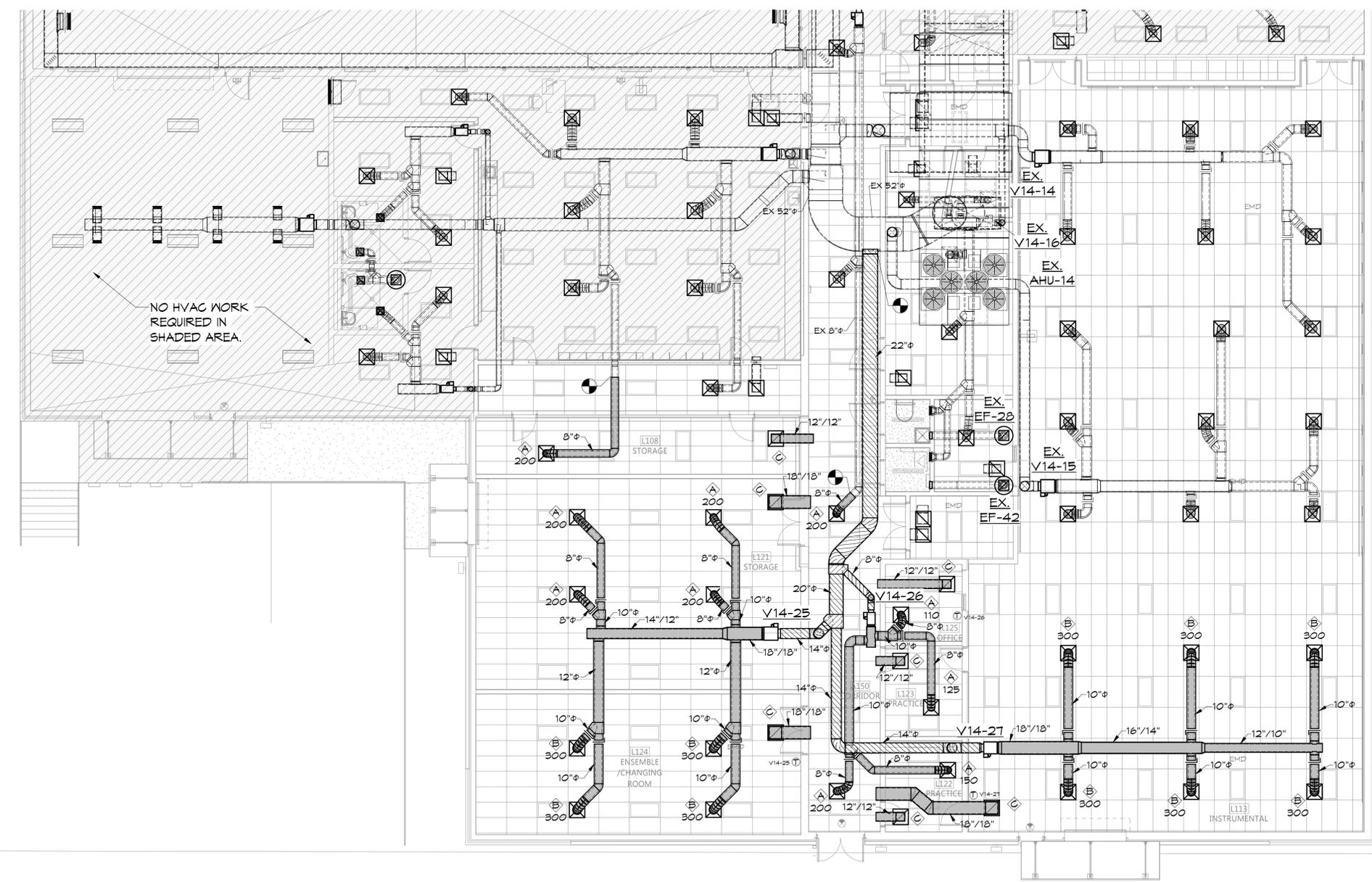
HVAC PLAN AND SCHEDULES

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KEYED NOTES

- 1 LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE TOP OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.



NO HVAC WORK
REQUIRED IN
SHADED AREA.

1 FIRST FLOOR HVAC PLAN
1/8" = 1'-0"



MARK	MFG	MODEL#	COOLING				HEATING WATER COIL				REMARKS/ACCESSORIES					
			CFM	MIN CFM	INLET DIA. (IN.)	MAX A.P.D. (IN.)	CFM	ROWS	UNIT EAT °F	LAT °F		ENT °F	DELTA T °F			
V14-25	METALAIRE	VCCF14	2000	600	14	0.45	1300	3	55	108	160	130	5.03	1.27	75.4	1 THRU 9
V14-26	METALAIRE	VCAF08	585	200	8	0.35	250	2	55	100	160	130	0.82	0.42	12.4	1 THRU 9
V14-27	METALAIRE	VCAF12	1800	900	12	0.66	1300	3	55	108	160	130	5.03	1.27	75.4	1 THRU 9

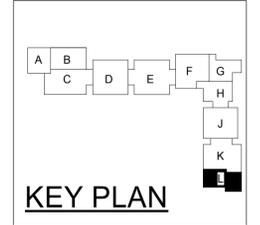
REMARKS / ACCESSORIES

- MAX INLET VELOCITY = 2500 FT/MIN
- BOX SHALL HAVE 1/2" FOIL FACE INTERNAL LINING.
- DDC ACTUATOR PROVIDED BY CONTROL CONTRACTOR AND FACTORY MOUNTED.
- PROVIDE FACTORY INSTALLED 120/24 VOLT TRANSFORMER.
- PROVIDE HORIZONTAL HANGING KIT
- PROVIDE AIR FLOW MEASUREMENT DEVICE.
- MECHANICAL CONTRACTOR SHALL COMPLETELY INSULATE HEATING WATER COIL BOX, EXTERNAL PIPING, AND VALVE BODIES.
- PROVIDE FACTORY DISCONNECT AND POWER FUSE.
- CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL VALVES. MECHANICAL CONTRACTOR SHALL INSTALL ALL VALVES.
- ALL CONTROL VALVES SHALL BE 2-WAY UNLESS INDICATED ON THE PIPING PLAN TO BE 3-WAY VALVES.

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ACCESSORIES
A	105-200	8"Ø	KRUEGER	1450	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
B	205-300	10"Ø	KRUEGER	1450	4-WAY SUPPLY	WHITE	T-BAR LAYIN	1
C	-	22" X 22"	KRUEGER	S05H	RETURN	WHITE	T-BAR LAYIN	1, 2

REMARKS / ACCESSORIES

- STEEL CONSTRUCTION
- NO SCREEN HOLES



KEY PLAN

NOTE:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGENDS, DETAILS.
REFER TO SHEET M2.0 FOR HVAC DEMO PLANS.
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REFER TO SHEET M2.2 FOR MECHANICAL PIPING PLANS.

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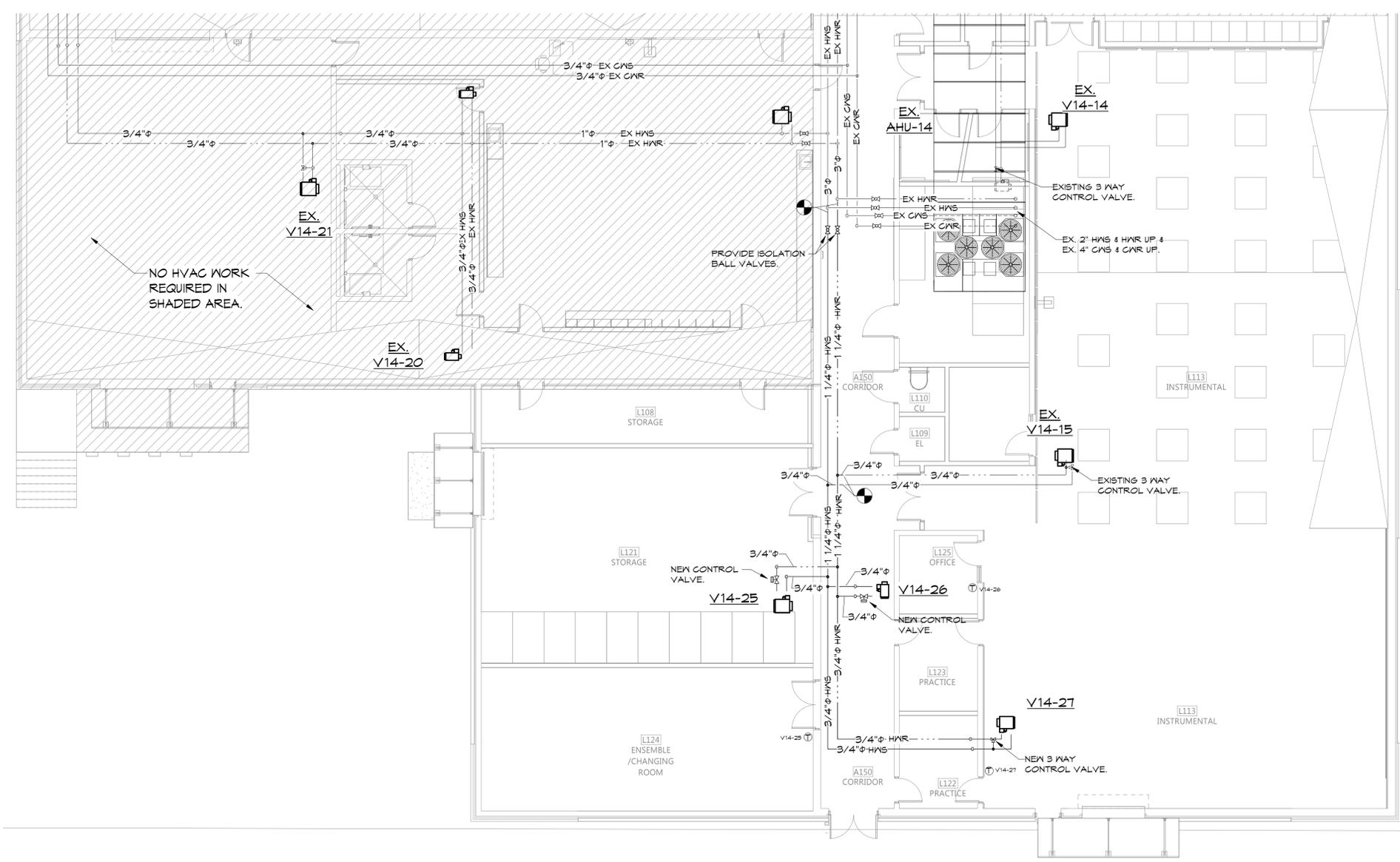
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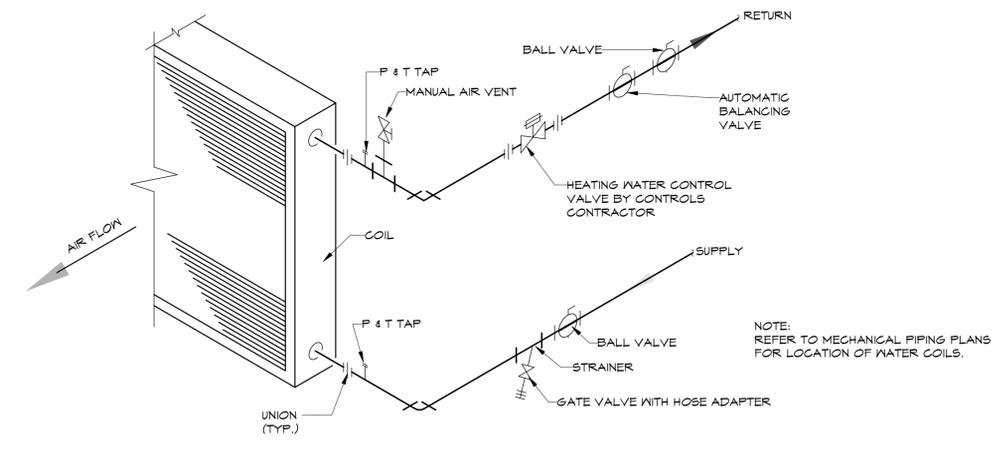
MECHANICAL PIPING PLAN

SHEET
M2.2

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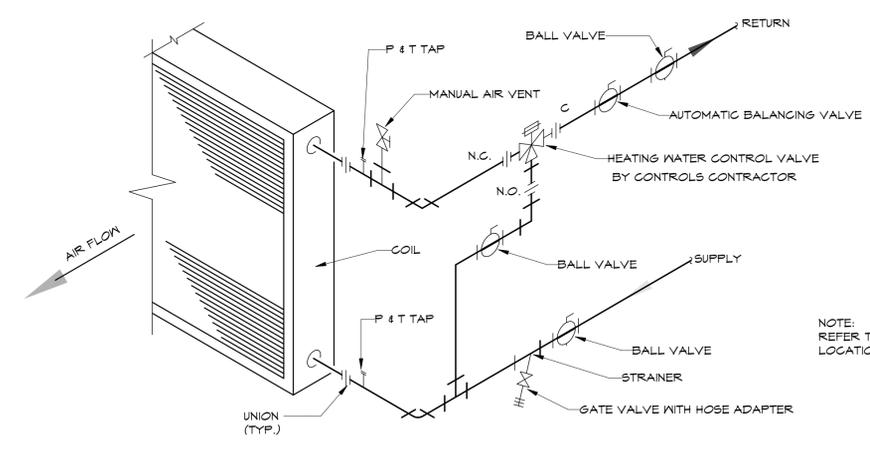


1 FIRST FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"



NOTE:
1. ALL OTHER PIPING ACCESSORIES SHOWN ABOVE WILL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
2. ALL CONTROL VALVES TO BE PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

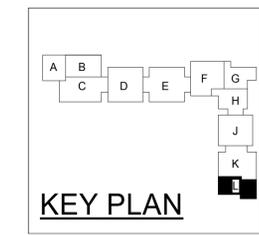
2 COIL 2-WAY VALVE
NTS



NOTE:
1. REFER TO MECHANICAL PIPING PLAN SHEETS FOR 3-WAY VALVE LOCATIONS.
2. ALL CONTROL VALVES TO BE PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
3. ALL OTHER PIPING ACCESSORIES SHOWN ABOVE WILL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

3 COIL 3-WAY VALVE
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