

MECHANICAL NOTES

MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS AND DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.

PIPING SYMBOLS

——CHWS———— CHILLED WATER SUPPLY

CONDENSATE DRAINAGE

HEATING WATER RETURN

HEATING WATER SUPPLY

CONDENSATE RETURN

PLUG

-REDUCING 45

DEGREE TEE

—45 DEGREE TEE

M −−2" M-CNTRL

PRESS REDUCING 3-WAY ELEC. CONTROL

ELEC. CONTROL

M -----4" 3-WAY CNTRL

-PIPE DROP

Z"LOCKED

ı ₹ı **−** 1" PLUG

ı ☐ı - - -1" GAS COCK

LOCK SHIELD VALVE

QUICK OPENING

GAS SHUTOFF COCK

PRESS REGULATOR

USED IN THIS SET OF DRAWINGS.

NATURAL GAS

- CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND NATIONAL CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 2-INCH WC WITH GALVANIZED METAL (26 GUAGE MINIMUM). ALL RADIUS ELBOWS AND TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. ALL SQUARE ELBOWS AND TEES SHALL HAVE TURNING VANES. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS AND CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.
- ALL DUCT JOINTS, SEAMS AND BRANCH TAKEOFFS SHALL BE SEALED AIR-TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON-GRIP OR FOIL-GRIP TAPE EQUAL TO HARDCAST
- ROUND RUNOUTS SHALL HAVE SPIN-INS WITH DAMPERS, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTORS AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.
- FLEX DUCT SHALL HAVE METALIZED VAPOR BARRIER WITH MIN. R-VALUE OF 5.0. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B. RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 2-INCH
- THICK 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER AND A MIN. R-VALUE OF 6.5. STAPLE AND SEAL ALL JOINTS WITH 4-INCH-WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF-683.
- COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED. INSULATE AND SEAL ALL GRILLE AND DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION.
- CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL. STATE. AND LOCAL CODES. CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MFG. CONDENSATE PIPING AND TRAPS SHALL BE SCHEDULE 40 PVC ROUTED TO EXTERIOR OR STORM DRAIN. INSULATE INTERIOR PIPING WITH 1/2-INCH-THICK UNICELLULAR INSULATION.
- REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE 1-INCH-THICK MINIMUM. GAS PIPING SHALL BE A-53 SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. PIPING BELOW GRADE SHALL HAVE FRP COATING AND ABOVE GRADE SHALL BE PRIMED AND
- PAINTED. BOND ALL GAS PIPING ABOVE GRADE AND WITHIN BUILDING. PROVIDE MAGNETIC MARKER TAPE 12-INCHES ABOVE ALL BELOW GRADE PIPING. ALL PIPING SHALL BE SUPPORTED AND SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE
- STANDS, SUPPORT WITH NO DROOPS OR SAGS, ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.
- POWER WIRING, DISCONNECTS AND STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.
- CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.
- UL LISTED DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND TESTED BY THE M.C. THE E.C. SHALL PROVIDE 120V POWER TO EACH DUCT SMOKE DETECTOR WHERE REQUIRED. THE M.C. SHALL PROVIDE REMOTE ALARM/TEST STATIONS FOR EACH DUCT SMOKE DETECTOR.
- TEMPERATURE CONTROLS FOR EACH HEATING-COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING-COOLING THERMOSTAT WITH HEAT-OFF-COOL-AUTO SYSTEM SWITCH AND AUTO-ON FAN SWITCH. MOUNT THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR AND A MINIMUM 8" FROM ANY OTHER SWITCHING DEVICES.
- INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE AND REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
- PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.
- CONTRACTOR SHALL BALANCE AIR SYSTEM TO QUANTITIES INDICATED ON PLANS AND PROVIDE TYPE WRITTEN REPORT WITH O AND M MANUALS.
- ALL EQUIPMENT AND SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. ALL DUCT SYSTEMS AND AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. SYSTEMS THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE CLEANING AGAIN AT THE END OF THE PROJECT.
- CONTRACTOR SHALL INSTALL A NEW SET OF PLEATED FILTERS BEFORE TURNING BUILDING OVER TO OWNER.
- CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING AND MAINTENANCE MANUAL INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES' NAME, PHONE NUMBER, AND

HVAC SHEET INDEX

M000 HVAC TITLE SHEET

M101 HVAC FIRST FLOOR FLOOR PLAN M102 HVAC FIRST FLOOR RCP

M103 HVAC FIRST FLOOR FLOOR EQUIPMENT PLAN

M104 HVAC ZONE PLAN M105 HVAC ROOF PLAN

M302 HVAC SCHEDULES M303 HVAC SCHEDULES

M301 HVAC SCHEDULES

M401 HVAC DETAILS

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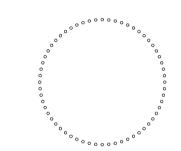
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Edgecomb County Animal Shelter

VETERINARY ARCHITECTURE



KPG PROJECT # 223S47



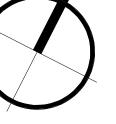
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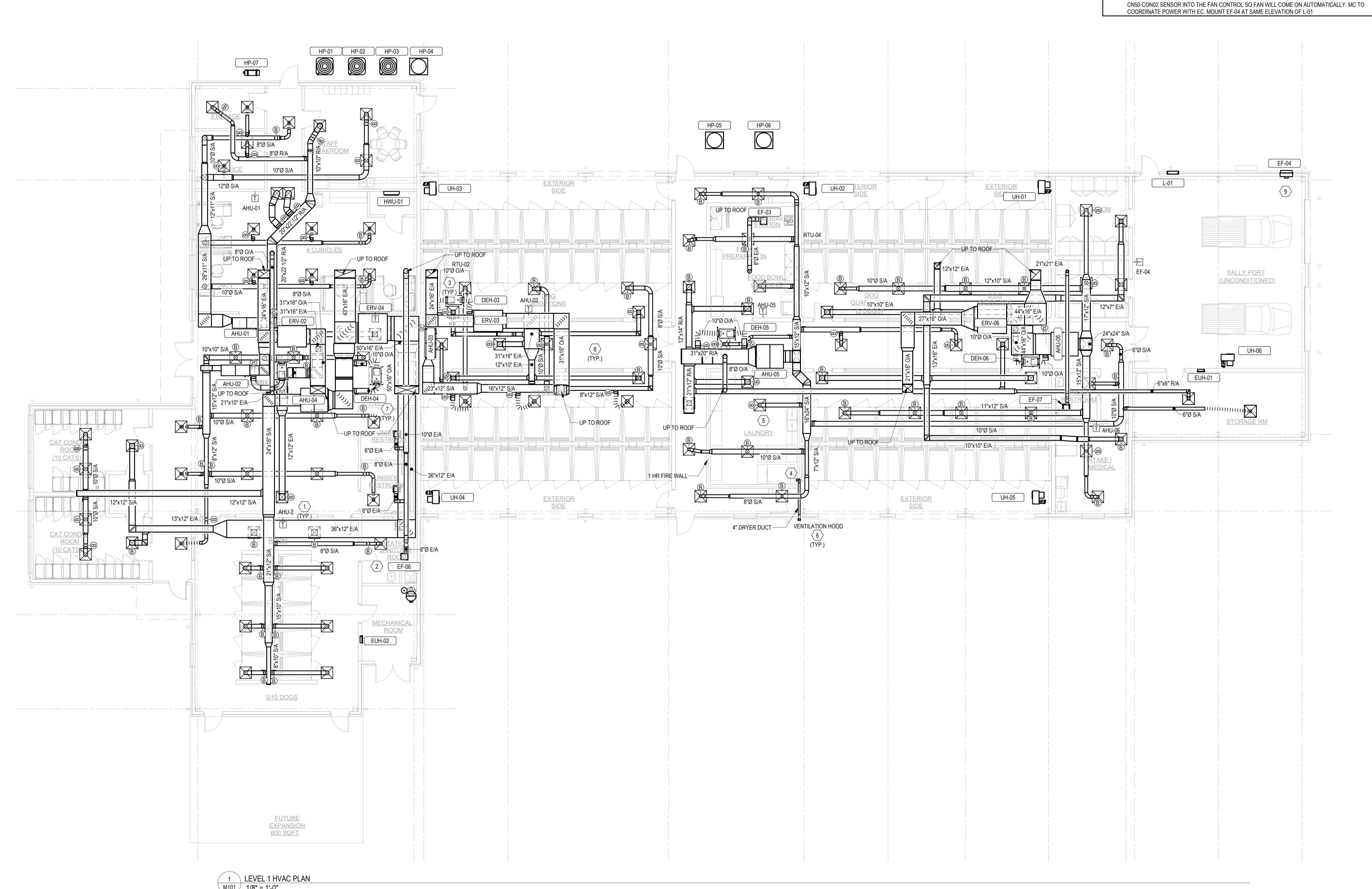
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CONSTRUCTION DOCUMENTS

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- 1 CONTRACTOR TO INSTALL THERMOSTAT, AND ALSO INSTALL VISIBLE/AUDIBLE ALARM WITH KEY SWITCH AND TESTING FUNCTION FOR EACH DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTORS NEED TO BE DUCT MOUNTED ON UNITS 5 TONS OR GREATER. THERMOSTAT TO BE HONEYWELL TC500A COMMERCIAL THERMOSTAT OR EQUAL.
- TC500A COMMERCIAL THERMOSTAT OR EQUAL.

 HVAC CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR SO FAN IS WIRED TO RUN
 CONTINUOUSLY.
- DEHUMIDIFIER TO BE INTERLOCKED WITH RTU AND ERV SO DEHUMIDIFIER ONLY RUNS WHEN RTU & ERV ARE RUNNING. WIRE MOTORIZED DAMPER TO OPEN WHEN DEHUMIDIFIER IS RUNNING. DEUMIDIFIER TO BE CONTROLLED BY THERMOSTAT OR SEPARATE CONTROLER LOCATED NEXT TO THERMOSTAT FOR THAT UNIT. DEHUMIDIFIER CONDESATE LINE SHALL BE RUN TO GRADE, SLOPE PER MANUFACTURE. MC SHALL PROVIDE A CONDENSATE PUMP IF ONE IS NEEDED.
 DRYER DUCT TO BE WRAPPED WITH "FYREWRAP DPS INSULATION" OR EQUAL WHERE DUCT PENETRATES A FIRE RATED STRUCTURE.
- ALL DUCT IN THIS ROOM TO PENETRATE FIRE RATED CEILING. MC TO INSTALL FIRE/SMOKE DAMPERS WHERE DUCT PENETRATES FIRE RATED STRUCTURE.
 M.C. TO ROUTE EXHAUST FANS TO OUTSIDE. COORDINATE WITH ARCHITECT AND G.C. AS TO
- M.C. TO ROUTE EXHAUST FANS TO OUTSIDE. COORDINATE WITH ARCHITECT AND G.C. AS TO WHETHER THEY PENETRATE THE WALL OR THE ROOF STRUCTURE. M.C. TO PROVIDE PROPER RAIN CAP
- EXHAUST FAN SHALL BE SWITCHED WITH LIGHT. M.C. TO COORDINATE SWITCHING WITH E.C.
 FLEXIBLE AIR DUCTS, BOTH METALLIC AND NONMETALLIC, SHALL BE TESTED IN ACCORDANCE WITH UL
 181. SUCH DUCTS SHALL BE LISTED AND LABLED AS CLASS OF CLASS 1 FLEXIBLE AIR DUCTS AND
- 181. SUCH DUCTS SHALL BE LISTED AND LABLED AS CLASS0 OR CLASS1 FLEXIBLE AIR DUCTS AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 304.1 FLEXIBLE DUCTS SHALL BE UNLIMITED IN LENGTH. FLEXIBLE AIR CONNECTORS SHALL BE LIMITED IN LENGTH TO SIX FEET.

 EF-04 TO BE INTERLOCKED WITH MOTORIZED DAMPERS ON L-01. MC. SHALL WIRE A CONSPEC

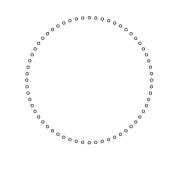


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HVAC FIRST FLOOR FLOOR PLAN

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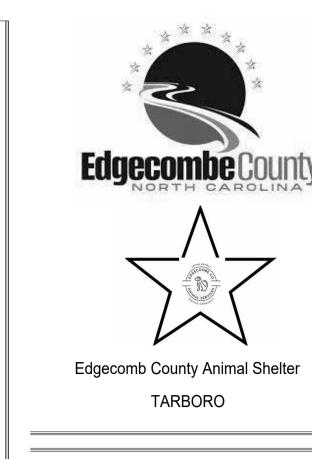
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KEYNOTES

ALL DIFFUSERS AND GRILLES PENETRATING THE FIRE RATED CEILING AND ALL DUCTWORK PENETRATING FIRE RATED WALLS SHALL HAVE A SELF-CLOSING SMOKE AND DRAFT CONTROL ASSEMBLY HAVING A FIRE PROTECTION RATING OF NOT LESS THAN ONE HOUR. HVAC CONTRACTOR TO COORDINATE LOCATION AND INSTALLATION OF LOUVERS WITH GC.. MOUNT LOUVER 12" BELOW THE FINISHED CEILING.

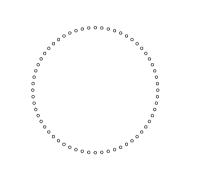


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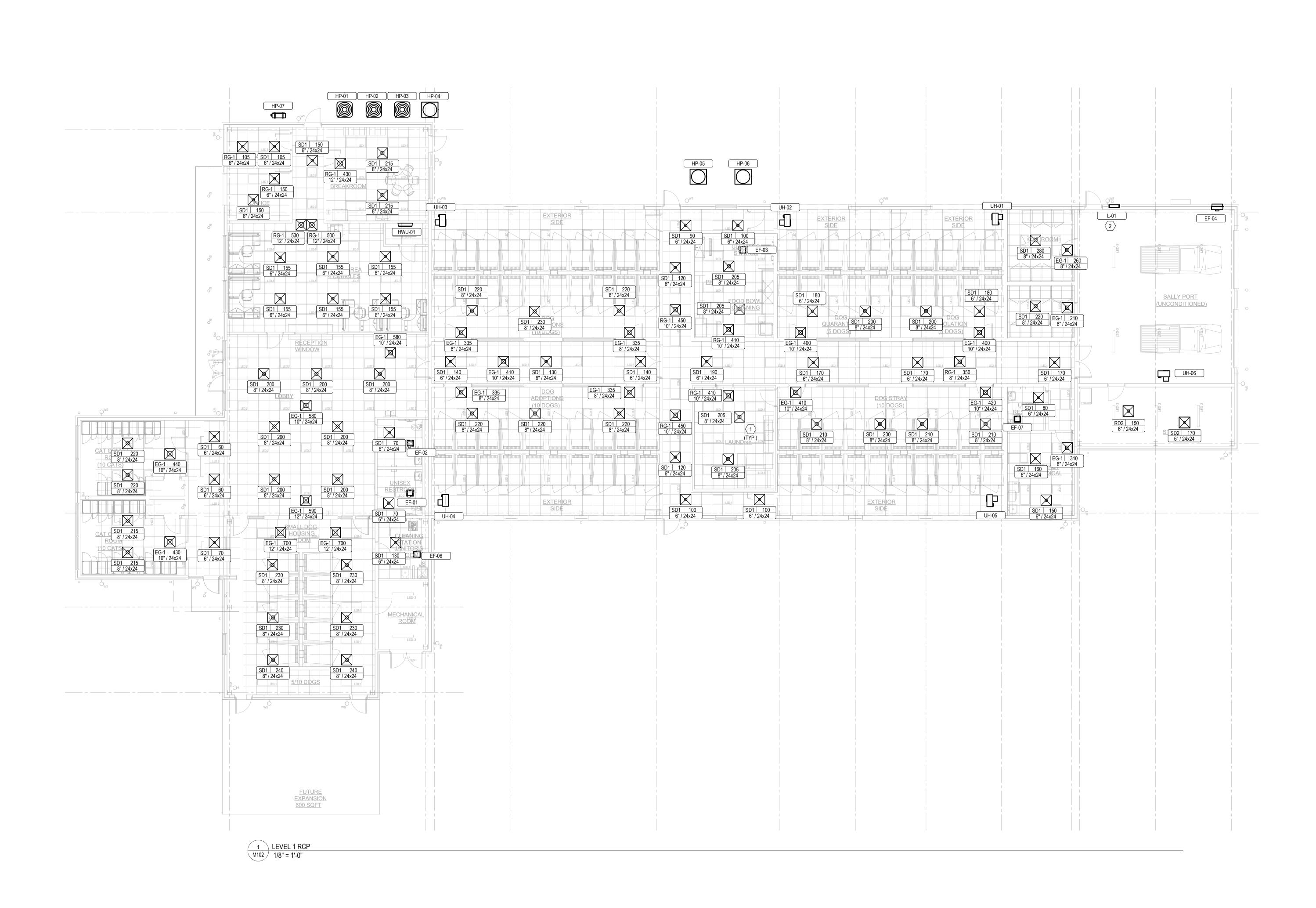
FLOOR RCP **HVAC FIRST**

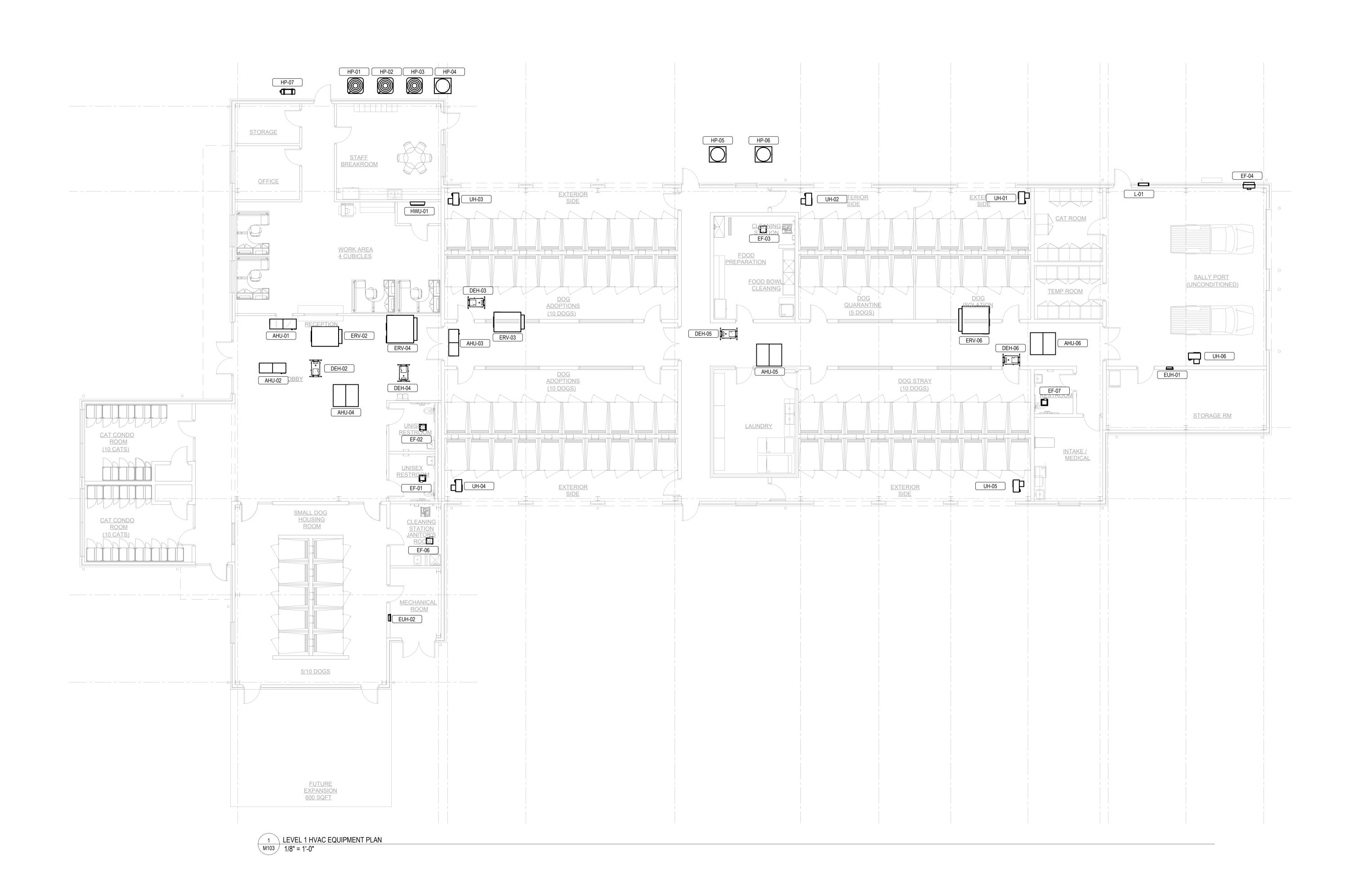
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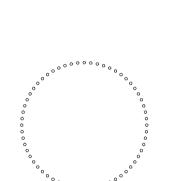


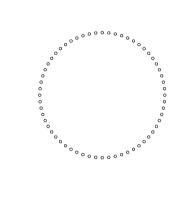


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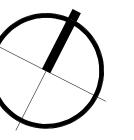


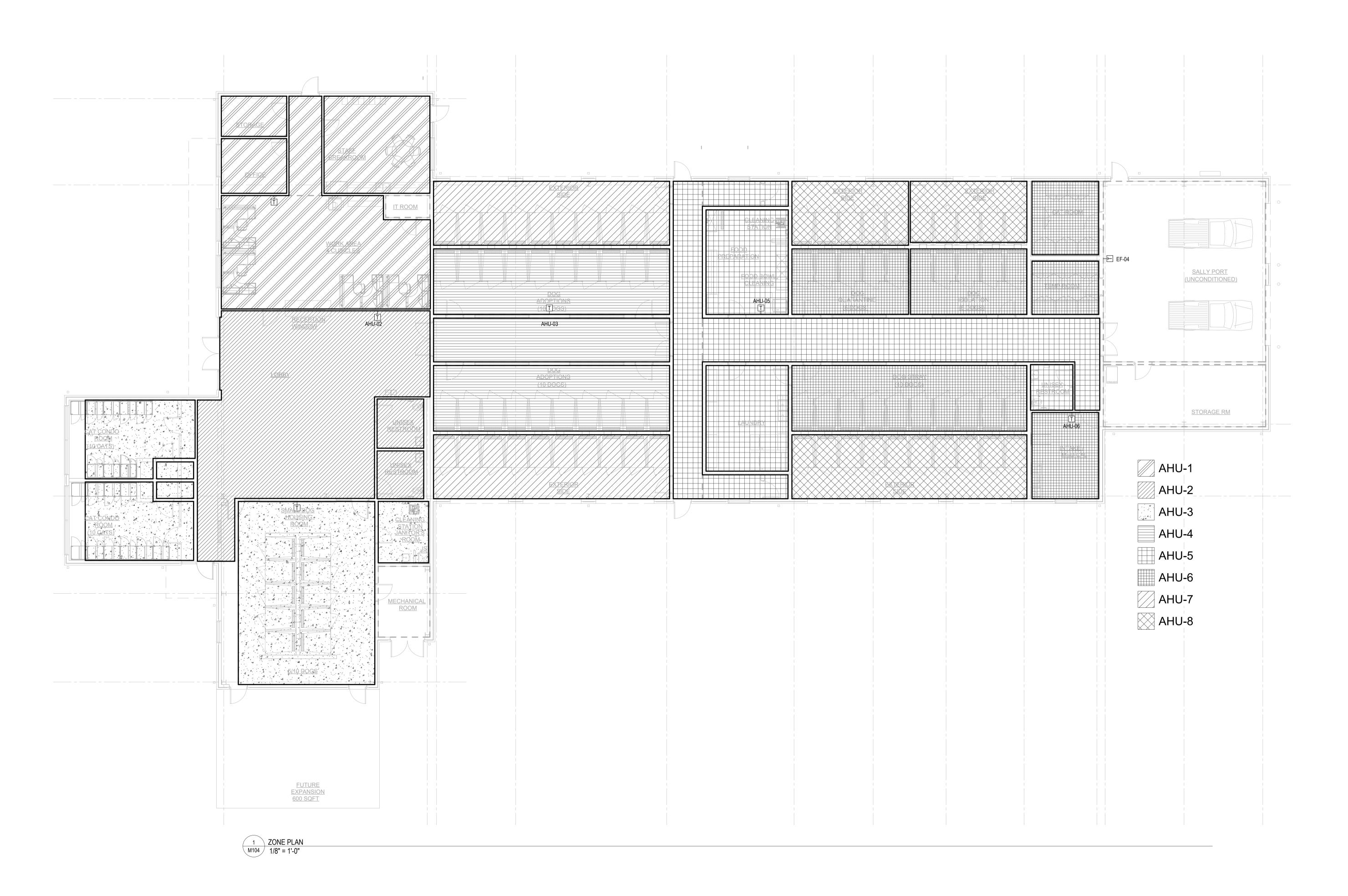
HVAC FIRST FLOOR FLOOR EQUIPMENT PLAN

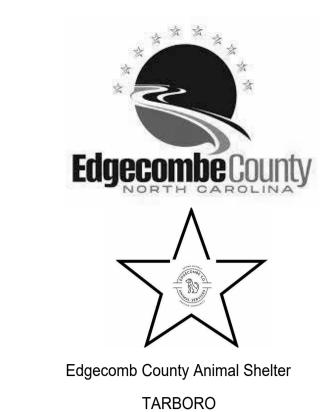
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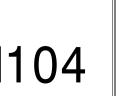


PLAN ZONE HVAC

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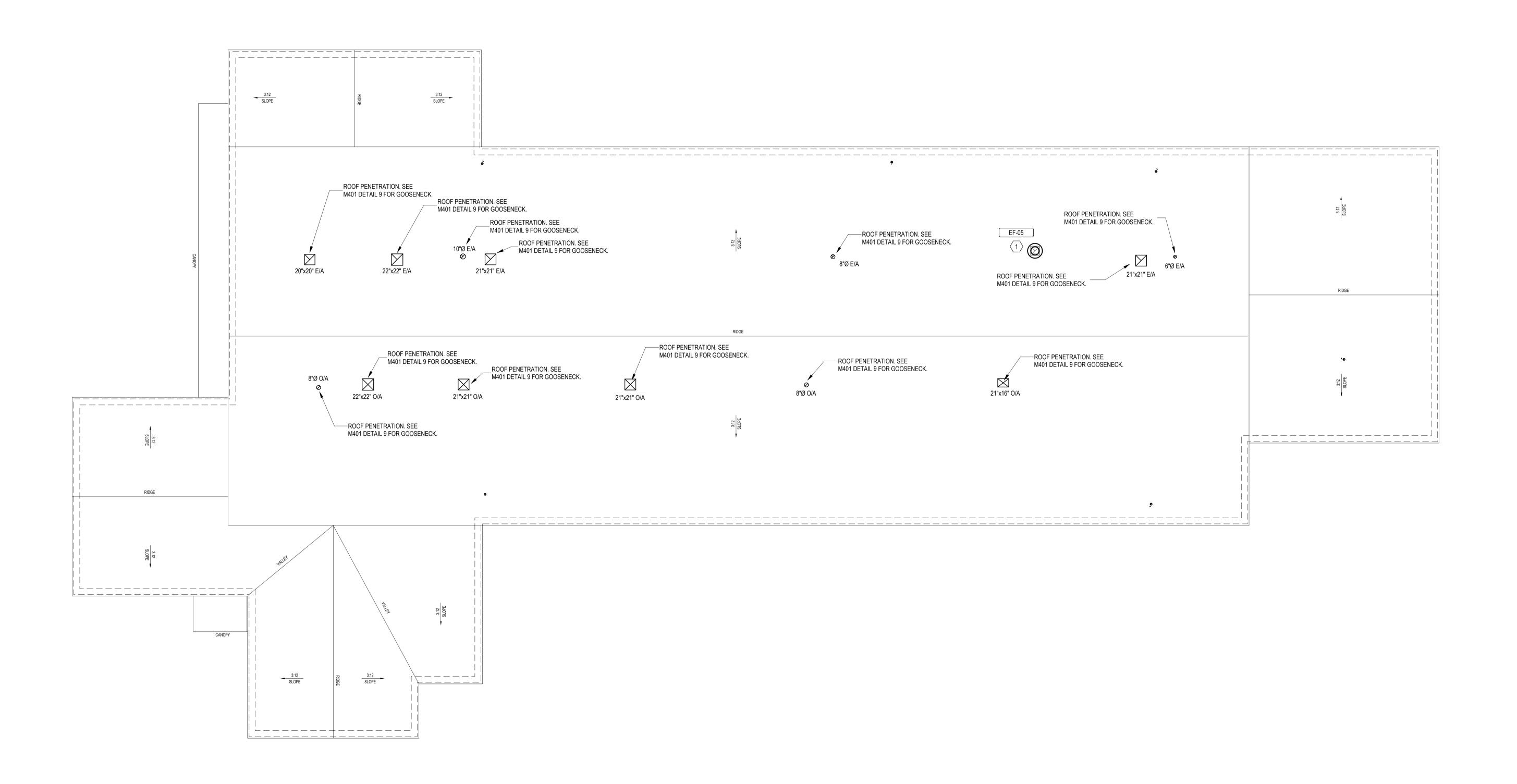
CONSTRUCTION DOCUMENTS

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KEYNOTES

1 EF-05 SHALL BE INTERLOCKED WITH AHU-06 AND RUN WHEN EVER THE FAN FOR AHU-06 IS RUNNING. MC TO COORDINATE POWER WITH EC.



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Edgecomb County Animal Shelter

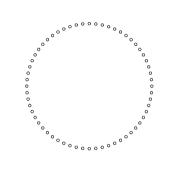
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DRAWING TITLE:
HVAC ROOF PLAN

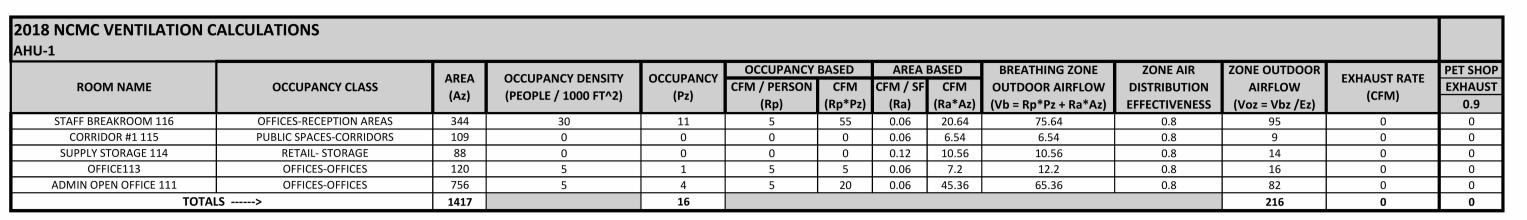
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ISSUE DATE: 07-18-2024

M105



OUTDOOR AIR INTAKE FLOW RATE:	216
PET SHOP EXHAUST FLOW RATE:	0
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	0
FINAL VENT AIR REQUIREMENT (GREATER OF THE AROVE):	216

BALANCE AHU-01 TO PROVIDE 220 CFM OF OUTSIDE AIR.

2018 NCMC VENTILATION CALCULATIONS AHU-2													
		AREA		OCCUPANCY (Pz)	OCCUPANCY BASED		AREA BASED		BREATHING ZONE	ZONE AIR	ZONE OUTDOOR		PET SHOP
ROOM NAME	OCCUPANCY CLASS	OCCUPANCY CLASS (Az) (PEOPLE / 1000 FT^2			CFM / PERSON	CFM	CFM / SF	CFM	OUTDOOR AIRFLOW	DISTRIBUTION	AIRFLOW	(CFM)	EXHAUST
			(PEOPLE / 1000 F1^2)		(Rp)	(Rp*Pz)	(Ra)	(Ra*Az)	(Vb = Rp*Pz + Ra*Az)	EFFECTIVENESS	(Voz = Vbz /Ez)	(CFIVI)	0.9
LOBBY / RECEPTION AREA 101	PET SHOPS (ANIMAL AREAS)	1284	10	13	7.5	97.5	0.18	231.12	328.62	0.8	411	0	1155.6
UNISEX RESTROOM 109	PUBLIC SPACES- TOILETS	77	0	0	0	0	0	0	0	0.8	0	80	0
UNISEX RESTROOM 110	PUBLIC SPACES- TOILETS	75	0	0	0	0	0	0	0	0.8	0	80	0
TOTALS>				13							411	160	1155.6

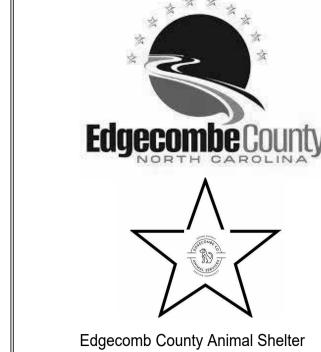
FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	1156
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	172.8
PET SHOP EXHAUST FLOW RATE:	1155.6
OUTDOOR AIR INTAKE FLOW RATE:	411

BALANCE AHU-02 TO PROVIDE 0 CFM OF OUTSIDE AIR. BALANCE ERV-02 TO PROVIDE 1750 CFM OF OUTSIDE AIR.

2018 NCMC VENTILATION CALCULATIONS AHU-3													
	OCCUPANCY CLASS	AREA	OCCUPANCY DENSITY	OCCUPANCY (Pz)	OCCUPANCY BASED		AREA BASED		BREATHING ZONE	ZONE AIR	ZONE OUTDOOR	EXHAUST RATE	PET SHOP
ROOM NAME		(Az)	(PEOPLE / 1000 FT^2)		CFM / PERSON	CFM	CFM / SF	CFM	OUTDOOR AIRFLOW	DISTRIBUTION	AIRFLOW		EXHAUST
					(Rp)	(Rp*Pz)	(Ra)	(Ra*Az)	(Vb = Rp*Pz + Ra*Az)	EFFECTIVENESS	(Voz = Vbz /Ez)	(CFM)	0.9
DOG ADOPTION INTERIOR SIDE 120	PET SHOPS(ANIMAL AREAS)	519	10	6	7.5	45	0.18	93.42	138.42	0.8	174	0	467.1
CORRIDOR #2 119	PUBLIC SPACES-CORRIDORS	346	0	0	0	0	0.06	20.76	20.76	0.8	26	0	0
DOG ADOPTION INTERIOR SIDE 118	PET SHOPS(ANIMAL AREAS)	519	10	6	7.5	45	0.18	93.42	138.42	0.8	174	0	467.1
TOTAL	S>	1384		12							374	0	934.2

OUTDOOR AIR INTAKE FLOW RATE:	374
PET SHOP EXHAUST FLOW RATE:	934.2
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	0
FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	940

BALANCE AHU-03 TO PROVIDE 0 CFM OF OUTSIDE AIR. BALANCE ERV-03 TO PROVIDE 1750 CFM OF OUTSIDE AIR.

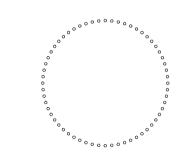




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SCHEDULES HVAC

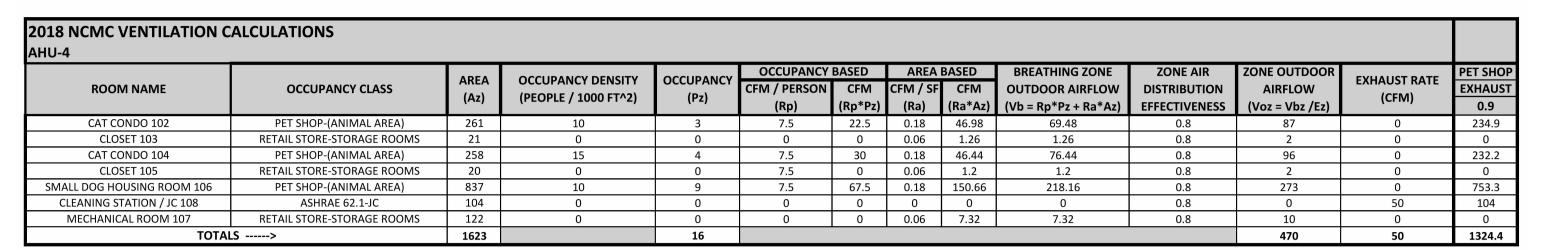
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FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	1324
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	54
PET SHOP EXHAUST FLOW RATE:	1324.4
OUTDOOR AIR INTAKE FLOW RATE:	470

BALANCE AHU-04 TO PROVIDE 0 CFM OF OUTSIDE AIR. BALANCE ERV-04 TO PROVIDE 2400 CFM OF OUTSIDE AIR.

18 NCMC VENTILATION CALCULATIONS U-5 OCCUPANCY BASED AREA BASED BREATHING ZONE ZONE AIR ZONE OUTDOOR														
		AREA	OCCUPANCY DENSITY	OCCUPANCY					BREATHING ZONE	ZONE AIR	ZONE OUTDOOR	EXHAUST RATE	PET SHO	
ROOM NAME	OCCUPANCY CLASS	(Az)	(PEOPLE / 1000 FT^2)	(Pz)	CFM / PERSON	CFM	CFM / SF	CFM	OUTDOOR AIRFLOW	DISTRIBUTION	AIRFLOW	(CFM)	EXHAUS	
		(A2)	(PEOPLE / 1000 F1 ² 2)	(P2)	(Rp)	(Rp*Pz)	(Ra)	(Ra*Az)	(Vb = Rp*Pz + Ra*Az)	EFFECTIVENESS	(Voz = Vbz /Ez)	(Crivi)	0.9	
CORRIDOR #3 122	PUBLIC SPACES-CORRIDORS	310	0	0	7.5	0	0.06	18.6	18.6	0.8	24	0	0	
CORRIDOR #4 123	PUBLIC SPACES-CORRIDORS	69	0	0	7.5	0	0.06	4.14	4.14	0.8	6	0	0	
CORRIDOR #5 124	PUBLIC SPACES-CORRIDORS	72	0	0	7.5	0	0.06	4.32	4.32	0.8	6	0	0	
CORRIDOR #6 125	PUBLIC SPACES-CORRIDORS	621	0	0	7.5	0	0.06	37.26	37.26	0.8	47	0	0	
LAUNDRY 127	DRY CLEANER-COMERCIAL LAUNDRY	291	10	3	25	75	0	0	75	0.8	94	0	0	
FOOD PREP AREA 126	ASHRAE 62.1-2019-BREAK ROOM	288	25	8	5	40	0.06	17.28	57.28	0.8	72	0	0	
UNISEX TOILET 135	PUBLIC SPACES-TOILETS	65	0	0	0	0	0.06	3.9	3.9	0.8	5	0	0	
тот	TALS>	1716		11							254	0	0	

OUTDOOR AIR INTAKE FLOW RATE:	254
PET SHOP EXHAUST FLOW RATE:	0
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	0
FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	254

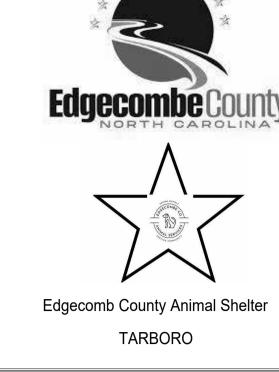
BALANCE AHU-05 TO PROVIDE 260 CFM OF OUTSIDE AIR.

		ADEA	OCCUPANCY DENGITY	OCCUPANCY	OCCUPANCY	BASED	AREA	BASED	BREATHING ZONE	ZONE AIR	ZONE OUTDOOR	EVITALICE DATE	PET SHO
ROOM NAME	OCCUPANCY CLASS	AREA	OCCUPANCY DENSITY	OCCUPANCY	CFM / PERSON	CFM	CFM / SF	CFM	OUTDOOR AIRFLOW	DISTRIBUTION	AIRFLOW	EXHAUST RATE	EXHAUS
		(Az)	(PEOPLE / 1000 FT^2)	(Pz)	(Rp)	(Rp*Pz)	(Ra)	(Ra*Az)	(Vb = Rp*Pz + Ra*Az)	EFFECTIVENESS	(Voz = Vbz /Ez)	(CFM)	0.9
DOG STRAY INTERNAL SIDE 132	PET SHOPS (ANIMAL AREAS)	516	10	6	7.5	45	0.18	92.88	137.88	0.8	173	0	464.4
DOG QUARTINE INTERNAL SIDE 129	PET SHOPS (ANIMAL AREAS)	256	10	3	7.5	22.5	0.18	46.08	68.58	0.8	86	0	230.4
DOG ISO INTERNAL SIDE 131	PET SHOPS (ANIMAL AREAS)	256	10	3	7.5	22.5	0.18	46.08	68.58	0.8	86	0	230.4
INTAKE/MEDICAL 134	PET SHOPS (ANIMAL AREAS)	192	10	2	7.5	15	0.18	34.56	49.56	0.8	62	0	172.8
CAT ROOM 137	PET SHOPS (ANIMAL AREAS)	164	10	2	7.5	15	0.18	29.52	44.52	0.8	56	0	147.6
TEMP ROOM 136	PET SHOPS (ANIMAL AREAS)	119	10	2	7.5	15	0.18	21.42	36.42	0.8	46	0	107.1
TOTALS	>	1503		18							509	0	1352.7

OUTDOOR AIR INTAKE FLOW RATE:	509
PET SHOP EXHAUST FLOW RATE:	1352.7
EXHAUST FLOW RATE PLUS 8% FOR PRESSURIZATION	0
FINAL VENT. AIR REQUIREMENT (GREATER OF THE ABOVE):	1353

BALANCE AHU-06 TO PROVIDE 0 CFM OF OUTSIDE AIR. BALANCE ERV-06 TO PROVIDE 2400 CFM OF OUTSIDE AIR.



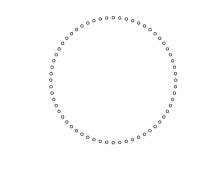


VETERINARY ARCHITECTURE

Davidson, NC 28036 ph. 704.756.3540

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SCHEDULE HVAC

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CONSTRUCTION DOCUMENTS

		REVISIONS	
NO.	DATE	DESCRIPTION	



ID MANUFAC	CTURER	MODEL NO.	VENTILA	DESIGN	LY FAN MOTOR	RETURN/EXHAUST FAN R AIRFLOW	-		UNIT DIMENSIONS									INTERLOCK	
	CTURER	MODEL NO.	DTY DESIGN A		-	R AIRFLOW	NET COOLING								1	1	1		
	ACTURER	MODEL NO.	DTY DESIGN A				NET COOLING				UNIT							CONDENSING UNIT	
AULI 04 CADE			L. DEGIGITA	RFLOW AIRFLOW	/ POWER	R DESIGN	CAP	LENGTH	WIDTH	HEIGHT	WEIGHT	FLA	MCA	MOCP	VOLT	PH	FREQ	ID	REMARKS
ANU-UI CARP	RIER	FT4BNBD60L	1 220 C	FM 1750 CFN	0.75 hp	0 CFM	60000 Btu/h	2' - 0 11/16"	1' - 10 1/16"	4' - 11 3/16"	203 lb	5.7 A	7.1 A	15.0 A	208 V	1	60 Hz		FIELD INSTALL 10 KW AUX ELECTRIC HEATERS
AHU-02 CARR	RIER	FT4BNBD60L	1 0 CF	M 1750 CFN	0.75 hp	0 CFM	60000 Btu/h	2' - 0 11/16"	1' - 10 1/16"	4' - 11 3/16"	203 lb	5.7 A	7.1 A	15.0 A	208 V	1	60 Hz	ERV-02, DEH-02	FIELD INSTALL 10 KW AUX ELECTRIC HEATERS
AHU-03 CARR	RIER	FT4BNBD60L	1 0 CF	M 1750 CFN	1 0.75 hp	0 CFM	60000 Btu/h	2' - 0 11/16"	1' - 10 1/16"	4' - 11 3/16"	203 lb	5.7 A	7.1 A	15.0 A	208 V	1	60 Hz	ERV-03 , DEH-03	FIELD INSTALL 10 KW AUX ELECTRIC HEATERS
AHU-04 CARR	RIER 4	40RFQA07A2A5-UA1A0	1 0 CF	M 2400 CFN	1 2.40 hp	0 CFM	72000 Btu/h	2' - 4 3/16"	4' - 1"	4' - 8 1/16"	381 lb	6.4 A	8.0 A	15.0 A	208 V	3	60 Hz	ERV-04, DEH-04	FIELD INSTALL 10 KW AUX ELECTRIC HEATERS
AHU-05 CARR	RIER 4	40RFQA07A2A5-UA1A0	1 260 C	FM 2400 CFN	1 2.40 hp	0 CFM	72000 Btu/h	2' - 4 3/16"	4' - 1"	4' - 8 1/16"	381 lb	6.4 A	8.0 A	15.0 A	208 V	3	60 Hz	DEH-05	FIELD INSTALL 10 KW AUX ELECTRIC HEATERS
AHU-06 CARR	RIER 4	40RFQA07A2A5-UA1A0	1 0 CF	M 2400 CFN	1 2.40 hp	0 CFM	72000 Btu/h	2' - 4 3/16"	4' - 1"	4' - 8 1/16"	381 lb	6.4 A	8.0 A	15.0 A	208 V	3	60 Hz	ERV-06, DEH-06	FIELD INSTALL 10 KW AUX ELECTRIC HEATERS

1. APPROVED EQUAL ACCEPTED.

2018 APPENDIX B	
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	
MECHANICAL DESIGN	
(PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)	
MECHANICAL SUMMARY	
CHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
Thermal Zone 3A	
winter dry bulb: 21F	
summer dry bulb: 95F	
Interior design conditions	
winter dry bulb: 68 F	
summer dry bulb: 78 F	
relative humidity: <u>50 %</u>	
Building heating load:391998 BTU_	

Building cooling load: 352350 BTU

Chiller

Mechanical Spacing Conditioning System

description of unit:

heating efficiency:

cooling efficiency:

SEE PLAN

SEE PLAN

SEE PLAN

size category of unit: SEE PLAN

List equipment efficiencies: N/A

Size category. If oversized, state reason.:

N/A

Size category. If oversized, state reason.:

N/A

							ELEC.	TRIC L	JNIT HEATEI	R SCHEDI	JLE									
							T A NI		FLECTI	DIC LIE ATING		115	TATING ELE	AFNT						
							FAN		ELECTI	RIC HEATING		HE	EATING ELE	MENI						
						DESIGN	MO	TOR		AIR	SIDE				AFF	UNIT				
ID	MANUFACTURER	MODEL NO.	QTY	TYPE	ARRANGEMENT	AIRFLOW	QTY	ECM	CAP	EAT(db)	LAT(db)	QTY	POWER	SCR	ELEVATION	WEIGHT	FLA	VOLT	PH	REMARKS
EUH-01	BERKO	FRC	1	CABINET	RECESSED MOUNT	100 CFM	1	No	16378 Btu/h	55.0 °F	206.7 °F	1	4.8 kW	No	1' - 0"	25 lb	13.3 A	208 V	3	SET TO KEEP ROOM FROM FREEZING
EUH-02	BERKO	FRC	1	CABINET	RECESSED MOUNT	100 CFM	1	No	16378 Btu/h	55.0 °F	206.7 °F	1	4.8 kW	No	1' - 0"	25 lb	13.3 A	208 V	3	SET TO KEEP ROOM FROM FREEZING
NOTES:				_					_						_					

 PROVIDE UNIT-MOUNTED FACTORY THERMOSTAT.
 PROVIDE INTEGRAL FACTORY DISCONNECT SWITCH. PROVIDE WALL MOUNTING BRACKET.
 APPROVED EQUAL ACCEPTED

									G	AS-FII	RED U	NIT HEAT	ER SCHEI	DULE									
							F <i>F</i>	\N						GAS-FIRE	D HEAT E	XCHANGER							
									MO	TOR			G	AS BURNER			AIRS	SIDE		SOUND			
					DESIGN	OUTLET	DRIVE									FUEL				PRESS			
ID	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	AIRFLOW	VELOCITY	TYPE	QTY	POWER	RPM	ECM	INPUT	CAP	STAGES	TYPE	PRESS AVAIL	EAT(db)	LAT(db)	AFUE	LEVEL	VOLT	PH	REMARKS
UH-01	REZNOR	UDXC-30	POWER VENTED	HORIZONTAL	456 CFM	475 FPM	DIRECT	1	0.06 hp	1550	No	30000 Btu/h	24600 Btu/h	1	NG	2.0 psi	55.0 °F	105.0 °F	83%	40	120 V	1	PROVIDE PROPANE CONVERSION IF NEEDED
UH-02	REZNOR	UDXC-30	POWER VENTED	HORIZONTAL	456 CFM	475 FPM	DIRECT	1	0.06 hp	1550	No	30000 Btu/h	24600 Btu/h	1	NG	2.0 psi	55.0 °F	105.0 °F	83%	40	120 V	1	PROVIDE PROPANE CONVERSION IF NEEDED
UH-03	REZNOR	UDXC-30	POWER VENTED	HORIZONTAL	456 CFM	475 FPM	DIRECT	1	0.06 hp	1550	No	30000 Btu/h	24600 Btu/h	1	NG	2.0 psi	55.0 °F	105.0 °F	83%	40	120 V	1	PROVIDE PROPANE CONVERSION IF NEEDED
UH-04	REZNOR	UDXC-30	POWER VENTED	HORIZONTAL	456 CFM	475 FPM	DIRECT	1	0.06 hp	1550	No	30000 Btu/h	24600 Btu/h	1	NG	2.0 psi	55.0 °F	105.0 °F	83%	40	120 V	1	PROVIDE PROPANE CONVERSION IF NEEDED
UH-05	REZNOR	UDXC-30	POWER VENTED	HORIZONTAL	456 CFM	475 FPM	DIRECT	1	0.06 hp	1550	No	30000 Btu/h	24600 Btu/h	1	NG	2.0 psi	55.0 °F	105.0 °F	83%	40	120 V	1	PROVIDE PROPANE CONVERSION IF NEEDED
UH-06	REZNOR	UDXC-30	POWER VENTED	HORIZONTAL	456 CFM	475 FPM	DIRECT	1	0.06 hp	1550	No	30000 Btu/h	24600 Btu/h	1	NG	2.0 psi	55.0 °F	105.0 °F	83%	40	120 V	1	PROVIDE PROPANE CONVERSION IF NEEDED

1. PROVIDE INTEGRAL FACTORY DISCONNECT SWITCH.

2. PROVIDE THREADED ROD HANGERS. 3. COORDINATE TEMPERATURE SETTING WITH OWNER/ARCHITECT.4. PROVIDE WITH A CONCENTRIC VENT TERMINATION KIT.

5. PROVIDE UNIT-MOUNTED FACTORY THERMOSTAT.6. APPROVED EQUAL ACCEPTED.

DUCTLESS INTERIOR UNIT SCHEDULE														
				SUPPLY FAN			UNIT DIMENSION	IS					INTERLOCK	
				DESIGN	NET COOLING				UNIT				CONDENSING	
D	MANUFACTURER	MODEL NO.	QTY	AIRFLOW	CAP	LENGTH	WIDTH	HEIGHT	WEIGHT	MCA	VOLT	PH	UNIT ID	REMARKS
J-01	CARRIER	40MAQB09B3	1	360 CFM	9000 Btu/h	2' - 8 7/8"	7 29/32"	11 3/16"	19 lb	0.2 A	208 V	1	HP-7	POWERED BY OUTDOOR UNIT. ADD CONDENSATE PUMP.

	EXHAUST FAN SCHEDULE														
							FAN							T	
					DESIGN		DRIVE		MOTOR		UNIT				
ID	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	AIRFLOW	ESP	TYPE	POWER	RPM	ECM	WEIGHT	FLA	VOLT		
EF-01	GREENHECK	SP-110-VG	CEILING	ROUND OUTLET	80 CFM	0.50 in-wg	DIRECT	0.01 hp	940	Yes	12 lb	0.2 A	120 V		
EF-02	GREENHECK	SP-110-VG	CEILING	ROUND OUTLET	80 CFM	0.50 in-wg	DIRECT	0.01 hp	940	Yes	12 lb	0.2 A	120 V		
EF-03	GREENHECK	SP-A200	CEILING	ROUND OUTLET	200 CFM	0.50 in-wg	DIRECT	0.01 hp	940	Yes	24 lb	0.2 A	120 V		
EF-04	GREENHECK	AER-20-02-0610-VG	WALL-MOUNT	WALL-MOUNT	736 CFM	0.50 in-wg	DIRECT	0.23 hp	974	Yes	61 lb	6.6 A	120 V		
EF-05	GREENHECK	G-120-B	ROOFTOP	DOWNFLOW	800 CFM	0.59 in-wg	DIRECT	0.14 hp	1140	Yes	54 lb	4.4 A	120 V		
EF-06	GREENHECK	SP-A200	CEILING	ROUND OUTLET	140 CFM	0.00 in-wg	DIRECT	0.01 hp	940	Yes	24 lb	0.2 A	120 V		
EF-07	GREENHECK	SP-110-VG	CEILING	ROUND OUTLET	90 CFM	0.00 in-wg	DIRECT	0.01 hp	940	Yes	12 lb	0.2 A	120 V		

NOTES:

1. APPROVED EQUAL ACCEPTED.

	GRILLES, REGISTERS AND DIFFUSERS SCHEDULE										
ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FINISH	QTY	FACE SIZE	INSTALLATION TYPE			
	PERFORATED DIFFUSER WITH DEFLECTORS	Titus	PAR-AA	ALUMINUM	WHITE ENAMEL	19	24x24	LAY-IN INSTALLATION			
RD2	PERFORATED DIFFUSER WITH DEFLECTORS	Titus	PAR-AA	ALUMINUM	WHITE ENAMEL	1	24x24	SURFACE MOUNT INSTALLATION			
RG-1	PERFORATED DIFFUSER WITH DEFLECTORS	Titus	PAR-AA	ALUMINUM	WHITE ENAMEL	10	24x24	LAY-IN INSTALLATION			
SD1	3-CONE DIFFUSER	Titus	TMS-AA	ALUMINUM	WHITE ENAMEL	70	24x24	LAY-IN INSTALLATION			
SD2	3-CONE DIFFUSER	Titus	TMS-AA	ALUMINUM	WHITE ENAMEL	1	24x24	SURFACE MOUNT INSTALLATION			

DEHUMIDIFIER SCHEDULE										
				UNIT					INTERLOCK	
ID	MANUFACTURER	Model	QTY	WEIGHT	MCA	MOCP	VOLT	PH	ID	
DEH-02	DRISTEEM	RL-9	1	85 lb	8.6 A	15.0 A	208 V	1	AHU-02, ERV-02	
DEH-03	DRISTEEM	RL-9	1	85 lb	8.6 A	15.0 A	208 V	1	AHU-03, ERV-03	
DEH-04	DRISTEEM	RL-9	1	85 lb	8.6 A	15.0 A	208 V	1	AHU-04, ERV-03	
DEH-05	DRISTEEM	RL-9	1	85 lb	8.6 A	15.0 A	208 V	1	AHU-05	
DEH-06	DRISTEEM	RL-9	1	85 lb	8.6 A	15.0 A	208 V	1	AHU-06, ERV-06	

NOTES:
1. APPROVED EQUAL ACCEPTED.

APPROVED EQUAL ACCEPTED.

	LOUVER SCHEDULE																
							DESIGN	FREE	FREE AREA		DAMPER			DIMEN	ISIONS	UNIT	
ID	MANUFACTURER	MODEL NO.	QTY	MATERIAL	FINISH	TYPE	AIRFLOW	AREA	VELOCITY	PD	TYPE	DUTY TYPE	QTY	WIDTH	HEIGHT	WEIGHT	REMARKS
L-01	GREENHECK	EHH-701-24X14	1	ALUMINUM	MFG. STANDARD COLOR	HORIZONTAL	736 CFM	0.8 SF	954 FPM	0.25 in-wg	ADJUSTABLE	DRAINABLE	1	2' - 0"	1' - 2"	18 lb	INTERLOCK DAMPER WITH EF-04
ACTUATO COLOR B	FACTORY MOTORIZED DR. BY ARCHITECT. ED EQUAL ACCEPTED.	DAMPER WITH 120\	/														

	ENERGY RECOVERY VENTILATOR SCHEDULE																		
						SUPPLY	'FAN			EXHAUS	ΓFAN								INTERLOCK
					DESIGN	DRIVE	MOT	OR	DESIGN	DRIVE	MO.	ΓOR	UNIT						
ID	MANUFACTURER	MODEL NO.	TYPE	QTY	AIRFLOW	TYPE	POWER	RPM	AIRFLOW	TYPE	POWER	RPM	WEIGHT	MCA	MOCP	VOLT	PH	FREQ	ID
ERV-02	GREENHECK	ECV-20H	INTERIOR	1	1750 CFM	DIRECT	1.50 hp	1750	1750 CFM	DIRECT	1.50 hp	1750	691 lb	18.1 A	25.0 A	208 V	1	60 Hz	AHU02, DEH-02
ERV-03	GREENHECK	ECV-20H	INTERIOR	1	1750 CFM	DIRECT	1.50 hp	1750	1750 CFM	DIRECT	1.50 hp	1750	691 lb	25.0 A	30.0 A	208 V	1	60 Hz	AHU-03 DEH-03
ERV-04	GREENHECK	ECV-30-P-H	INTERIOR	1	2400 CFM	DIRECT	0.75 hp	1750	2400 CFM	DIRECT	0.75 hp	1750	803 lb	18.8 A	20.0 A	208 V	1	60 Hz	AHU-04, DEH-04
ERV-06	GREENHECK	ECV-30-P-H	INTERIOR	1	2400 CFM	DIRECT	0.75 hp	1750	2400 CFM	DIRECT	0.75 hp	1750	803 lb	18.8 A	20.0 A	208 V	1	60 Hz	AHU-06, DEH-06
NOTES:			_																_
	'ED EQUAL ACCEPTED.																		

						SPLIT	SYSTEM	AIR :	SOUR	CE HE	AT PUMP								
								COM	PRESSOR										INTERLOCK
			NOMINAL	NOMINAL	INCLUDE			MO.	ΓOR	LOW									
ID	MANUFACTURER	MODEL NO.	COOLING CAP	HEATING CAP	CRANKCASE HEATER	TYPE	STAGES	RLA	LRA	AMBIENT KIT	REFRIGERANT TYPE	SEER2	SEACOAST PROT	UNIT WEIGHT	MCA	MOCP	VOLT	PH	ID
HP-01	CARRIER	25TPA760A*0	5.00 ton	60000 Btu/h	No	SCROLL	TWO	26.9 A	158.0 A	Yes	R410A	17	No	295 lb	35.1 A	60.0 A	208 V	1	AHU-01
HP-02	CARRIER	25TPA760A*0	5.00 ton	60000 Btu/h	No	SCROLL	TWO	26.9 A	158.0 A	Yes	R410A	17	No	295 lb	35.1 A	60.0 A	208 V	1	AHU-02
HP-03	CARRIER	25TPA760A*0	5.00 ton	60000 Btu/h	No	SCROLL	TWO	26.9 A	158.0 A	Yes	R410A	17	No	295 lb	35.1 A	60.0 A	208 V	1	AHU-03
HP-04	CARRIER	38AUQD07A0A5-0AOAO	6.00 ton	66000 Btu/h	No	SCROLL	TWO	17.5 A	136.0 A	Yes	R410A	0		444 lb	25.0 A	30.0 A	208 V	3	AHU-04
HP-05	CARRIER	38AUQD07A0A5-0AOAO	6.00 ton	66000 Btu/h	No	SCROLL	TWO	17.5 A	136.0 A	Yes	R410A	0		444 lb	25.0 A	30.0 A	208 V	3	AHU-05
HP-06	CARRIER	38AUQD07A0A5-0AOAO	6.00 ton	66000 Btu/h	No	SCROLL	TWO	17.5 A	136.0 A	Yes	R410A	0		444 lb	25.0 A	30.0 A	208 V	3	AHU-06
HP-07	CARRIER	38MARBQ09AA1	0.75 ton	12000 Btu/h	No	ROTARY		0.0 A	0.0 A	Yes	R410A	28.1	No	74 lb	15.0 A	15.0 A	208 V	1	HWU-01

1. APPROVED EQUAL ACCEPTED.

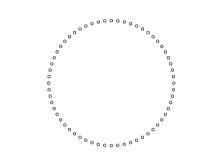


VETERINARY ARCHITECTURE

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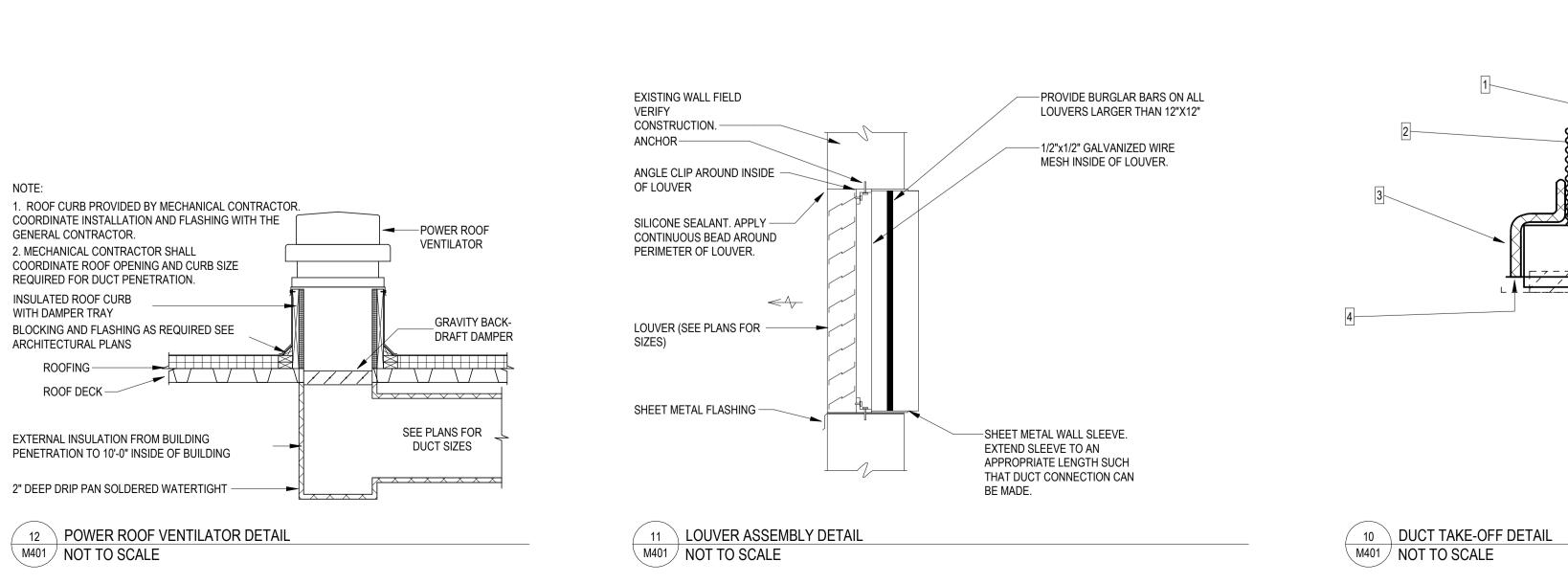
SCHEDULES HVAC

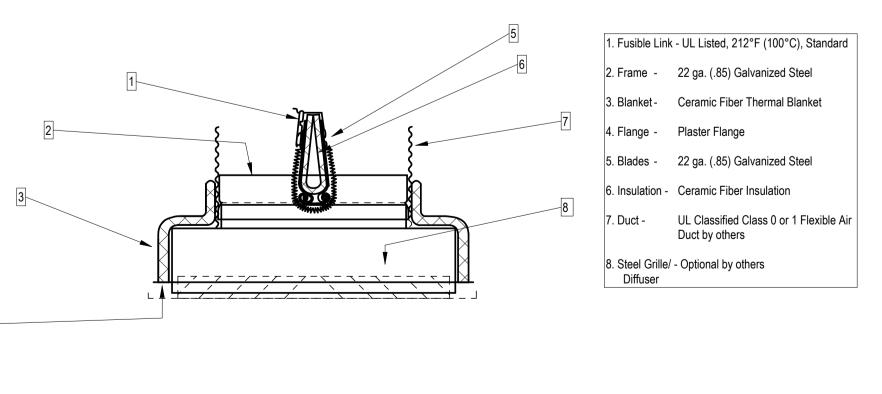
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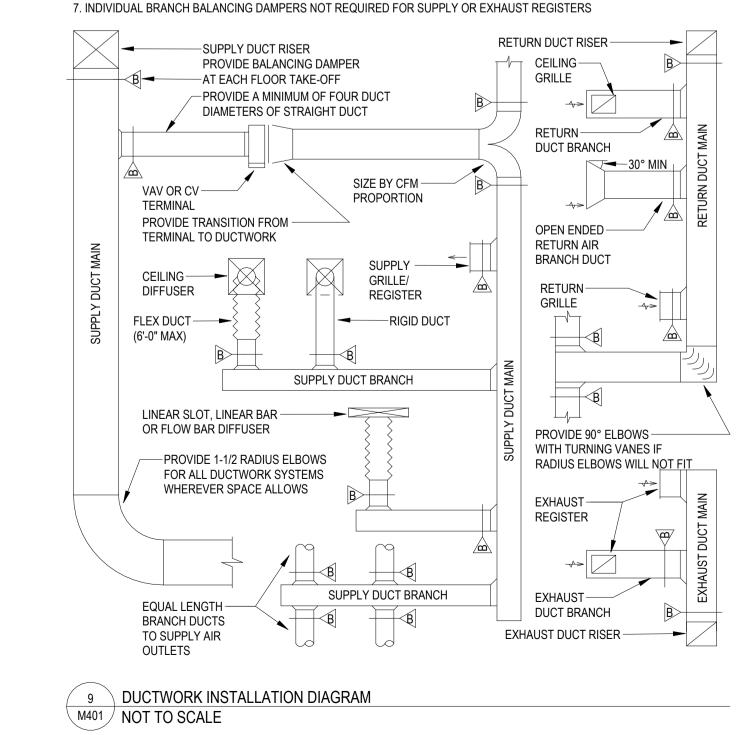
CONSTRUCTION DOCUMENTS

			REVISIONS
	NO.	DATE	DESCRIPTION
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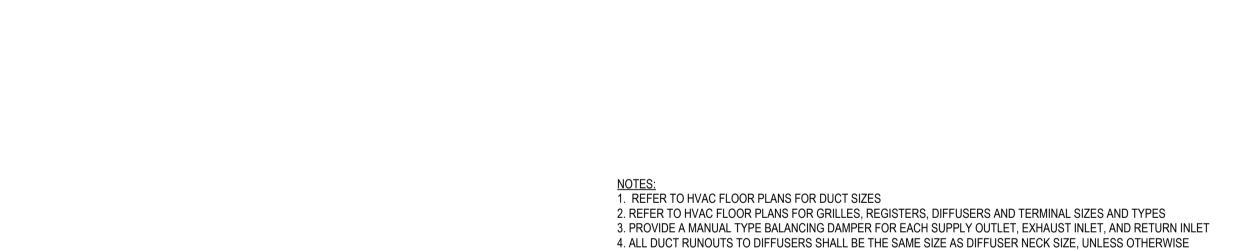


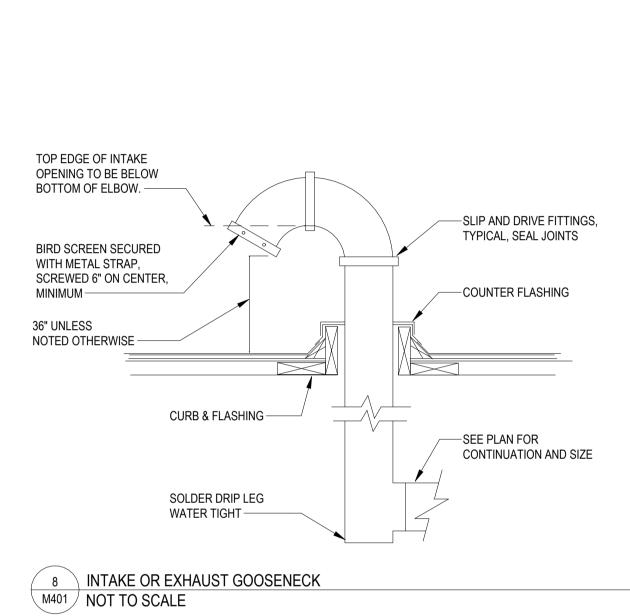


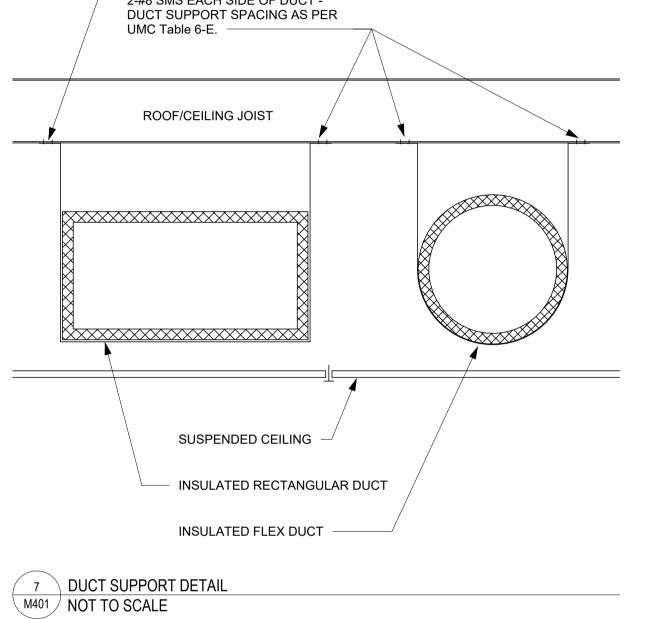


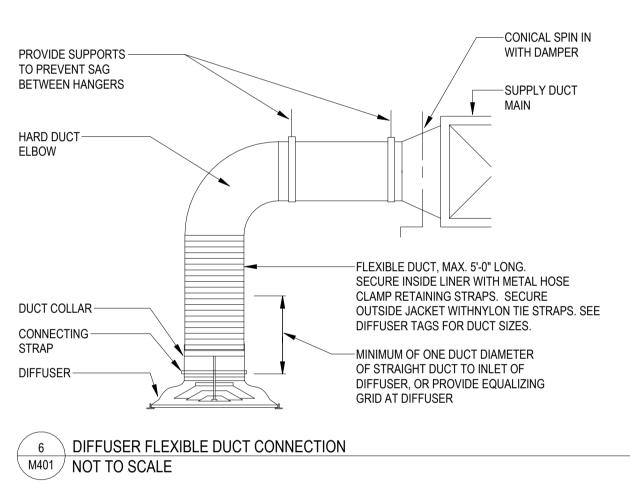


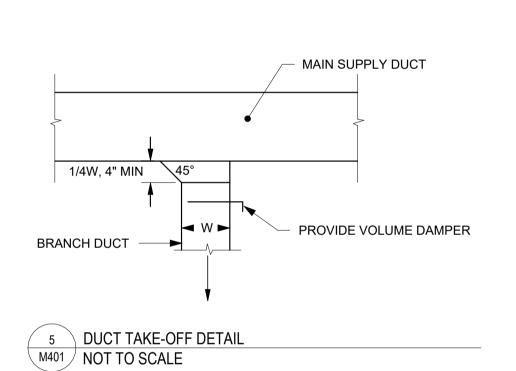
5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS 6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT

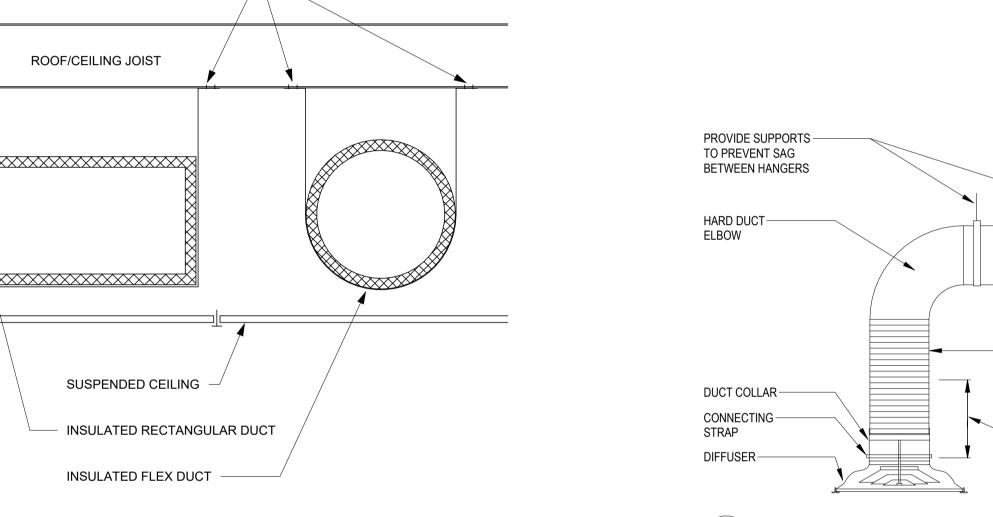












-SMOKE DETECTOR PROVIDED BY FIRE ALARM CONTRACTOR, INSTALLED BY

-- REFRIGERANT PIPING

(INSULATE VAPOR LINE)

-1" PVC CONDENSATE

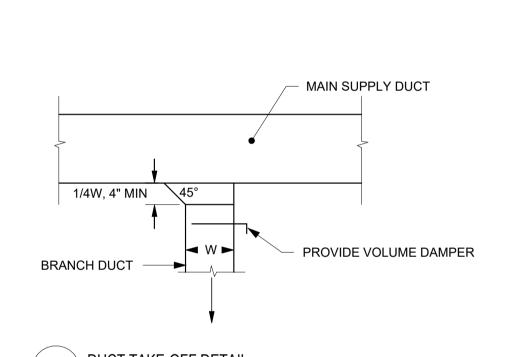
DRAIN PIPE AND TRAP

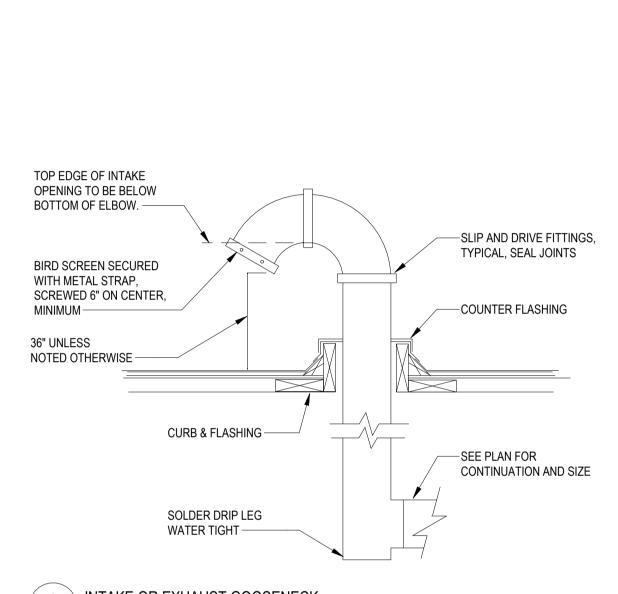
MECHANICAL CONTRACTOR

-2" DEEP AUXILIARY DRAIN PAN, 4" LARGER THAN EQUIPMENT. PROVIDE A FLOAT SWITCH THAT WILL

OF CONDENSATE IN THE PAN.

SHUTDOWN THE EQUIPMENT UPON ACCUMULATION





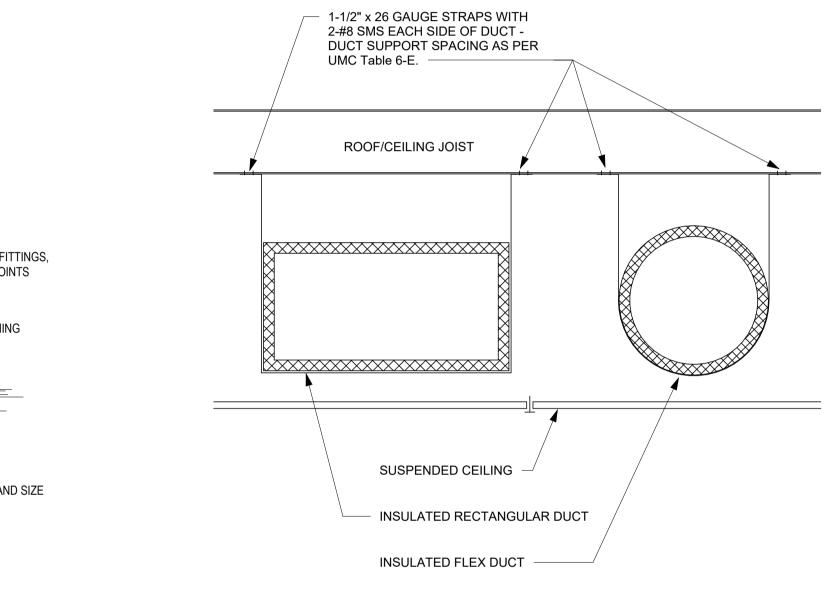
DRAIN PAN

A= SCHEDULED FAN STATIC PLUS ONE INCH

4 COOLING COIL CONDENSATE DRAIN DETAIL

B= 1/2 OF SCHEDULED FAN STATIC

M401 NOT TO SCALE



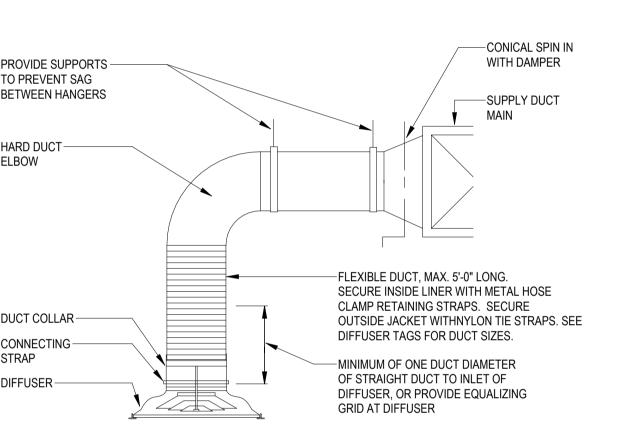
HANG UNIT FROM STRUCTURE PROVIDE VIBRATION ISOLATION

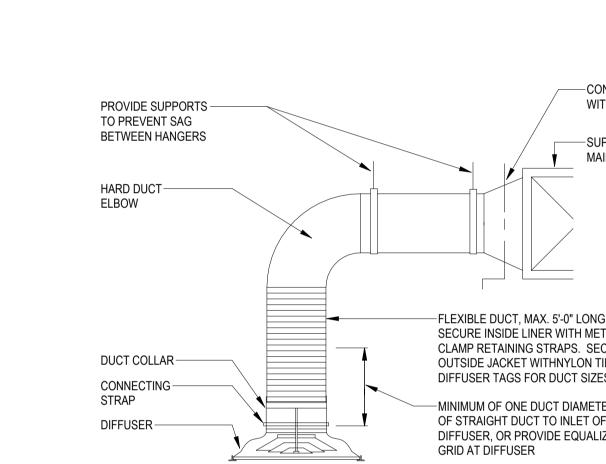
TRANSITION AS REQUIRED -

3 AHU HORIZONTAL MOUNTING

M401 NOT TO SCALE

IF FAN MOTOR IS NOT INTERNALLY ISOLATED —





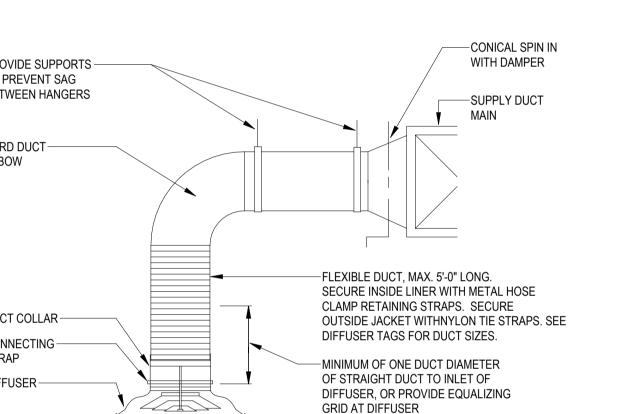
UNIT HEATER - SUSPEND

FROM STRUCT. W/STEEL RODS, ANGLES, & VIB.

M401 NOT TO SCALE

2 GAS FIRED UNIT HEATER DETAIL

ISOLATORS -





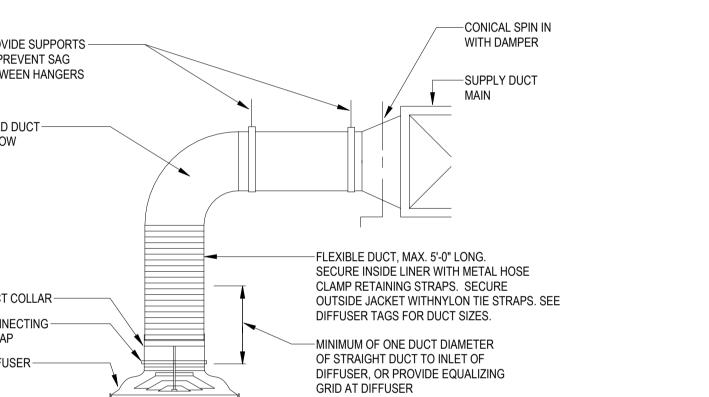
AIR COOLED

CONDENSING

UNIT

`—DRIER

SERVICE VALVE IF NOT FURNISHED WITH UNIT



EXHAUST TERMINAL SUPPLIED W/HEATER

—COMB. AIR INLET

MAX. 5'

SUPPLIED W/HEATER

—CONCENTRIC ADAPTER

SUPPLIED W/HEATER

GAS LINE SIZED ON PLANS

—COMBUSTION AIR

EXPANSION VALVE -

COOLING

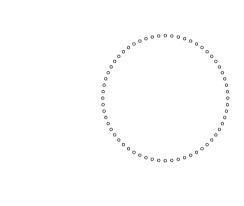
COIL

M401 NOT TO SCALE

> LINE--

LINE-

SPLIT SYSTEM FAN COIL UNIT PIPING SCHEMATIC



DETAIL

0

HVA

NO. DATE

ISSUE DATE: 07-18-2024

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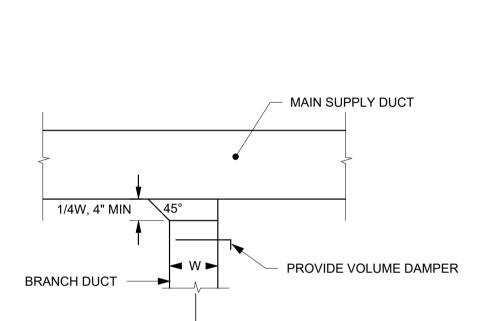
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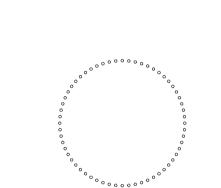
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CONSTRUCTION DOCUMENTS

REVISIONS

DESCRIPTION























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