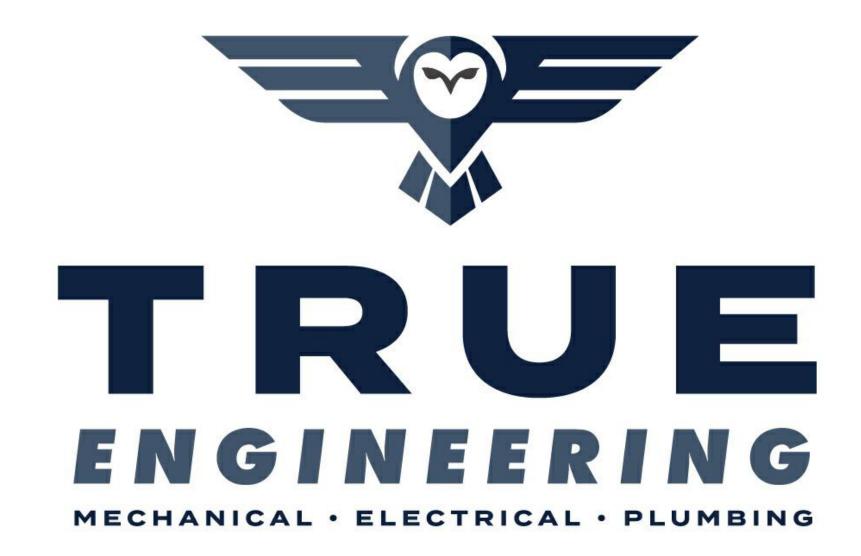
GENTRY RESIDENTIAL TREATMENT CENTER REPLACE HVAC CABOOL, MISSOURI



1200 E WOODHURST DR, STE P

SPRINGFIELD, MO 65804

417.708.7025

WWW.TRUE-MEP.COM

OWNER:

STATE OF MISSOURI

MIKE KEHOE, GOVERNOR

DEPARTMENT OF SOCIAL SERVICES

DIVISION OF YOUTH SERVICES

PROJECT

OFFICE OF ADMINISTRATION

MANAGEMENT:

DIVISION OF FACILITIES MANAGEMENT,

DESIGN AND CONSTRUCTION

DESIGNER:

TRUE ENGINEERING GROUP, LLC

PROJECT NUMBER: H2409-01

7712

SITE NUMBER:

FACILITY NUMBER: 8877712003

SHEET NUMBER:

GAS LOAD TABLE:

NEW GAS LOAD FOR EXISTING BUILDING

1. EXISTING GAS LOADS REMOVED.

A. FURNACE F01 = 120 MBH B. FURNACE F02 = 160 MBH

C. FURNACE F03 = 160 MBHD. FURNACE F04 = 120 MBH

E. FURNACE F05 = 120 MBH F. FURNACE F06 = 120 MBH

TOTAL = 800 MBH

2. NEW GAS LOAD TOTALS.

A. FURNACE F02 = 70 MBH B. FURNACE F03 = 84 MBH

C. FURNACE F04 = 84 MBH D. FURNACE F05 = 70 MBH

E. DOA01 = 140 MBH F. DOA02 = 140 MBHG. DOA03 = 140 MBH

TOTAL = 728 MBH

3. DECREASE IN GAS LOAD.

A. GAS LOADS REMOVED = 800 MBH B. GAS LOADS ADDED = 728 MBH

DECREASE IN GAS LOAD = 72 MBH

DIVISION 26 POWER LEGEND

JUNCTION BOX

DUPLEX, 20-AMP RECEPTACLE

DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, 20-AMP RECEPTACLE

DUPLEX WITH WEATHERPROOF ENCLOSURE, 20-AMP RECEPTACLE

SIMPLEX, 20-AMP RECEPTACLE

SIMPLEX WITH NEMA CONFIGURATION ⊖₁₄₋₃₀ AS INDICATED

DOUBLE DUPLEX, 20-AMP RECEPTACLE

LIGHTING AND POWER PANELBOARD

DISTRIBUTION POWER PANELBOARD

DIVISION 23 HVAC LEGEND

MITER ELBOW

FURNACE

CONDENSING UNIT

FLEX DUCT

RECTANGULAR TO ROUND TAKE-OFF WITH DAMPER

RETURN GRILLE

MANUAL BALANCING DAMPER

FIRE/SMOKE DAMPER

CONTROL DAMPER WITH ACTUATOR

EXHAUST FAN THERMOSTAT

HVAC EQUIPMENT HATCHING. INDICATES NEW EQUIPMENT TO BE PROVIDED AND INSTALLED REFER TO MECHANICAL SCHEDULE(S).

SUPPLY ELBOW UP SUPPLY ELBOW DOWN

RETURN ELBOW UP

RETURN ELBOW DOWN

DTV 33 BUILDING LECEND

DIV 22 PL	UMBING LEGEND
	VENT PIPING
—— G——	NATURAL GAS PIPING
——D——	CONDENSATE DRAIN PIPING
—— F ——	FIRE SPRINKLER PIPING
اور	MANUAL SHUT-OFF VALVE
M	REDUCER
遠	PRESSURE REDUCING VALVE
0	FINISH FLOOR OR FINISH GRADE CLEANOUT
0	FLOOR DRAIN
	PLUMBING FIXTURE HATCHING. INDICATES NEW PLUMBING FIXTURE TO BE PROVIDED

AND INSTALLED. REFER TO PLUMBING

FIXTURE SCHEDULE





TITLE SHEET

GENERAL SCOPE PLAN

MEP COORDINATION PLAN **DEMO MECHANICAL PLAN** MECHANICAL PLAN

SHEET INDEX

MECHANICAL PIPING PLAN BUILDING AUTOMATION CONTROL DRAWINGS

MECHANICAL DETAILS

MECHANICAL SCHEDULES **DEMO ELECTRICAL PLAN**

ELECTRICAL PLAN ELECTRICAL DETAILS AND SCHEDULES

MEP BID ALTERNATE

ALTERNATE NO. 1:

EXISTING FIRE/SMOKE DAMPERS; ADD.

FURTHER REQUIREMENTS AND CLARIFICATIONS.

PERMITTING NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL

TEMPORARY HVAC NOTE:

PORTABLE AIR CONDITIONING AND HEATING UNITS SHALL BE INSTALLED AND OPERABLE FOR DORMITORY UNITS 116, 116A, 116B

116C, 123, 123A, 123B AND 123C. REFER TO SPECIFICATIONS FOR

INSTALLATION PERMITS REQUIRED FOR THE PROJECT.

1. REMOVE AND REPLACE ALL EXISTING FIRE/SMOKE DAMPERS AND ASSOCIATED ELECTRICAL CONNECTIONS AS INDICATED ON THE DRAWINGS LABELED "ALTERNATE NO. 1." SPECIFICATION SECTION 23 33 00 INCLUDES COMPLETE PRODUCT AND EXECUTION REQUIREMENTS FOR NEW FIRE/SMOKE DAMPERS.

DIVISION 26 SPECIFICATIONS:

26 05 00 - COMMON WORK FOR ELECTRICAL

1. ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2023 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING

2. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR

TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

PIPING, LIGHT FIXTURES, CONDUITS, ETC.

REQUIREMENTS.

4. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. 5. CONDUIT/CONDUCTOR LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE,

6. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

7. MAINTAIN ALL CLEARANCES REQUIRED BY ELECTRICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

8. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS. 9. REFER TO SPECIFICATION SHEET SECTIONS FOR ADDITIONAL

DIVISION 23 SPECIFICATIONS:

23 05 00 - COMMON WORK FOR HEATING, VENTILATION, AND AIR CONDITIONING

1. ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED MECHANICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2024 INTERNATIONAL MECHANICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID. 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO

4. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED.

UNANTICIPATED EXISTING CONDITIONS.

5. DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, LIGHT FIXTURES, CONDUITS, ETC. 6. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE

CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE

ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES. 7. MAINTAIN ALL CLEARANCES REQUIRED BY MECHANICAL EQUIPMENT. COORDINATE WITH ELECTRICAL AND PLUMBING CONTRACTOR TO

MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS. 8. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF

ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS. 9. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

DIVISION 22 SPECIFICATIONS:

22 05 00 - COMMON WORK FOR PLUMBING

1. ALL PLUMBING WORK SHALL BE PERFORMED BY LICENSED PLUMBING CONTRACTORS AND SHALL BE IN ACCORDANCE WITH REOUIREMENTS OF THE 2024 INTERNATIONAL PLUMBING CODE AND THE 2024 INTERNATIONAL FUEL GAS CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.

4. THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED.

5. PIPING LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, DUCTWORK, LIGHT FIXTURES, CONDUITS, ETC.

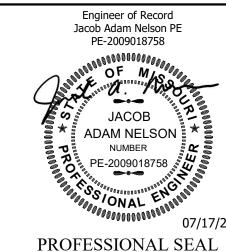
6. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.

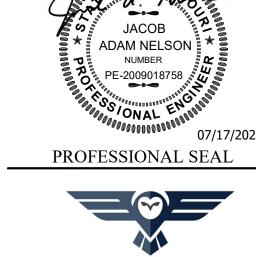
7. MAINTAIN ALL CLEARANCES REQUIRED BY PLUMBING EQUIPMENT. COORDINATE WITH ELECTRICAL AND HVAC CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.

8. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIALS FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL

9. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

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GENTRY RESIDENTIAL TREATMENT CENTER REPLACE HVAC

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SERVICES

2001 DYS DR, CABOOL, MO 65689-9166

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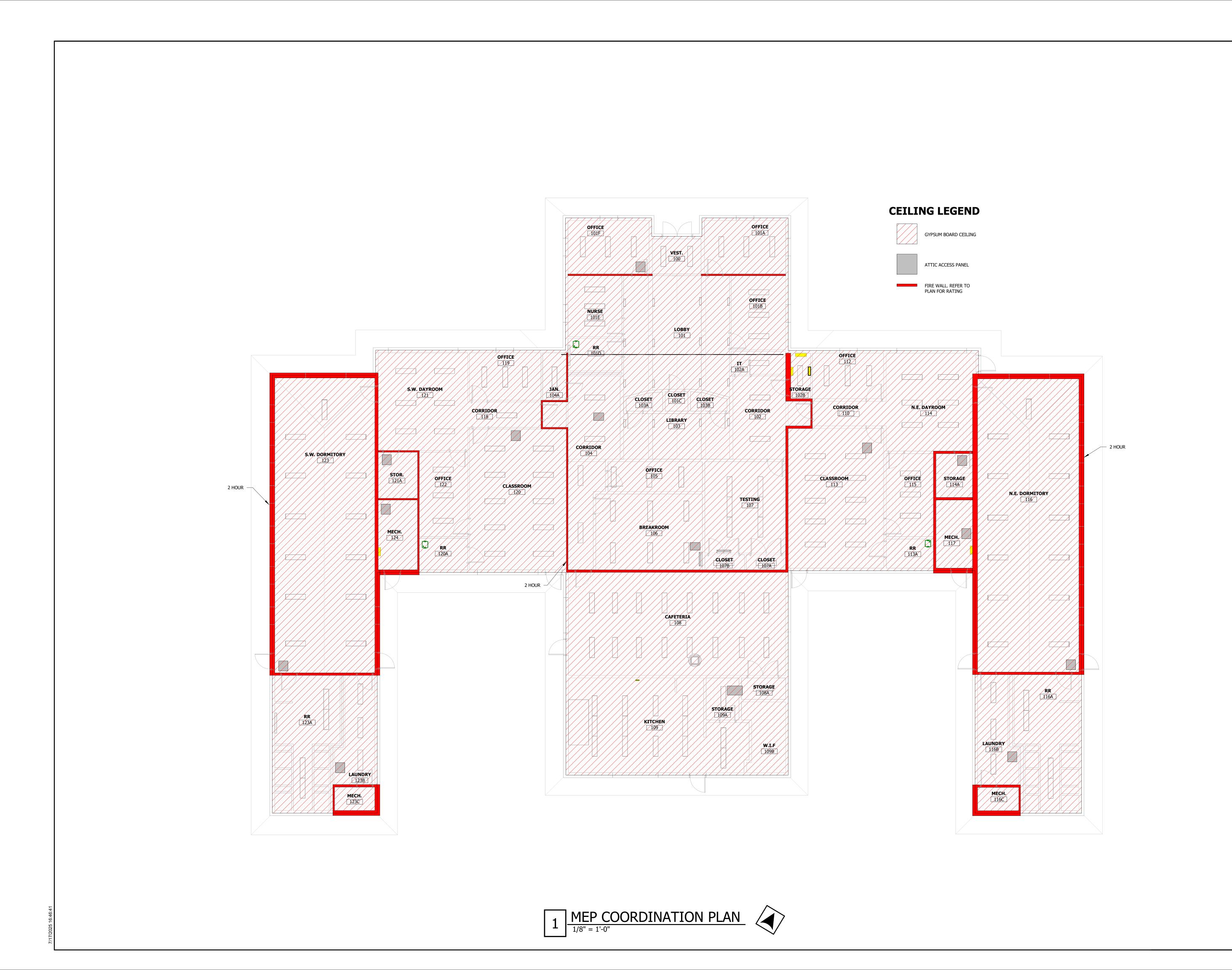
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GENERAL SCOPE PLAN

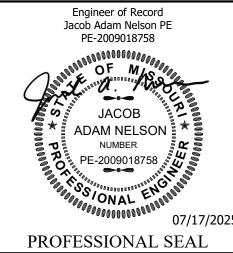
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2 OF 12 SHEETS

07/17/2025



STATE OF MISSOURI MIKE KEHOE, GOVERNOR





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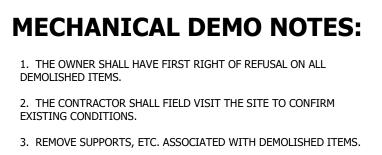
CAD DWG FILE: H2409-01 DRAWN BY: KP CHECKED BY: JN DESIGNED BY: JK

SHEET TITLE:

MEP COORDINATION PLAN

SHEET NUMBER:

MEP-101



4. CONTRACTOR SHALL REPAIR ALL HOLES CREATED BY REMOVAL OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

> WIRING. CONTRACTOR SHALL HAVE OPTION TO REUSE EXISTING BACKBOX AND CONDUIT FOR NEW SYSTEM IF APPLICABLE.

D23.03 REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING. REFER TO IMPROVEMENT PLANS FOR ADDITIONAL REQUIREMENTS.

D23.04 REMOVE EXISTING FURNACE, EVAPORATOR COIL, EXISTING PIPING. REFER TO IMPROVEMENT PLANS FOR ADDITIONAL

D23.05 REMOVE EXISTING LOUVER. PATCH AND REPAIR WALL PENETRATION INTO BUILDING TO MATCH EXISTING WALL CONSTRUCTION. REFER TO DETAIL 8/M202 FOR ADDITIONAL REQUIREMENTS.

REPAIR ROOF PENETRATION. PROVIDE SHEET METAL CAP AND 6" BATT INSULATION ON EXISTING VENTILATOR CURB. DUCTWORK FOR INSTALLATION OF NEW FIRE AND SMOKE DAMPER. REFER TO IMPROVEMENT PLANS FOR ADDITIONAL REQUIREMENTS.

D23.09 REMOVE EXISTING EXHAUST FAN. ASSOCIATED DUCTWORK SHALL

D23.12 REMOVE EXISTING AIR DEVICE AND ASSOCIATED DUCTWORK CONNECTION. PREPARE OPENING AND DUCTWORK FOR NEW AIR DEVICE. REFER TO IMPROVEMENT PLAN FOR FURTHER

METAL CAP AND 6" BATT INSULATION ON EXISTING VENTILATOR

REQUIREMENTS D23.13 REMOVE EXISTING REFRIGERANT PIPING IN UNDERGROUND PIPE

SLEEVE. SEAL SLEEVE WEATHER TIGHT INSIDE BUILDING.

KEYNOTE LEGEND

KEY **KEYNOTE TEXT** VALUE

23.02 EXISTING DUCTWORK SHALL REMAIN.

23.03 EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPI SHALL REMAIN. 23.06 EXISTING GAS PIPING LOCATED IN ATTIC SPACE SHALL REMAIN.

23.07 EXISTING GAS METER LOCATION.

23.08 EXISTING KITCHEN HOOD AND ASSOCIATED DUCTWORK SHALL 23.09 EXISTING MAKEUP AIR UNIT LOCATED IN ATTIC AND ASSOCIATED

DUCTWORK SHALL REMAIN. 23.17 EXISTING WALL MOUNT FAN TERMINAL UNIT AND ASSOCIATED REFRIGERANT LINES OUT TO CONDENSING UNIT SHALL REMAIN. D23.01 REMOVE EXISTING THERMOSTAT AND ASSOCIATED LOW VOLTAGE

DUCTWORK SHOWN DASHED, NATURAL GAS PIPING CONNECTION, ASSOCIATED REFRIGERANT PIPING, CONDENSATE PIPING, AND FLUE REQUIREMENTS. SEAL ANY WALL AND ROOF PENETRATIONS WEATHER

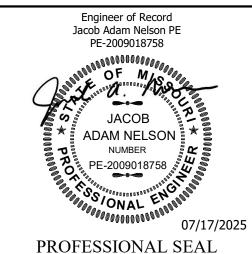
D23.06 REMOVE EXISTING FRESH AIR DUCTWORK SHOWN DASHED. PATCH RETURN DUCTWORK AS REQUIRED. D23.07 REMOVE EXISTING GRAVITY VENTILATOR ON ROOF. PATCH AND

D23.08 | ALTERNATE NO. 1: REMOVE EXISTING FIRE/SMOKE DAMPER. PREPAR FIELD VERIFY EXISTING SIZE AND LOCATION.

D23.10 REMOVE EXISTING DUCTWORK SHOWN DASHED. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. D23.11 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. PATCH AND REPAIR PENETRATION THROUGH ROOF, PROVIDE SHEET

D23.14 REMOVE EXISTING HIGH AND LOW LOUVERS. PATCH AND REPAIR WALL PENETRATION INTO BUILDING TO MATCH EXISTING WALL CONSTRUCTION. REFER TO DETAIL 8/M202 FOR ADDITIONAL

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GENTRY RESIDENTIAL TREATMENT CENTER REPLACE HVAC

2001 DYS DR, CABOOL, MO 65689-9166

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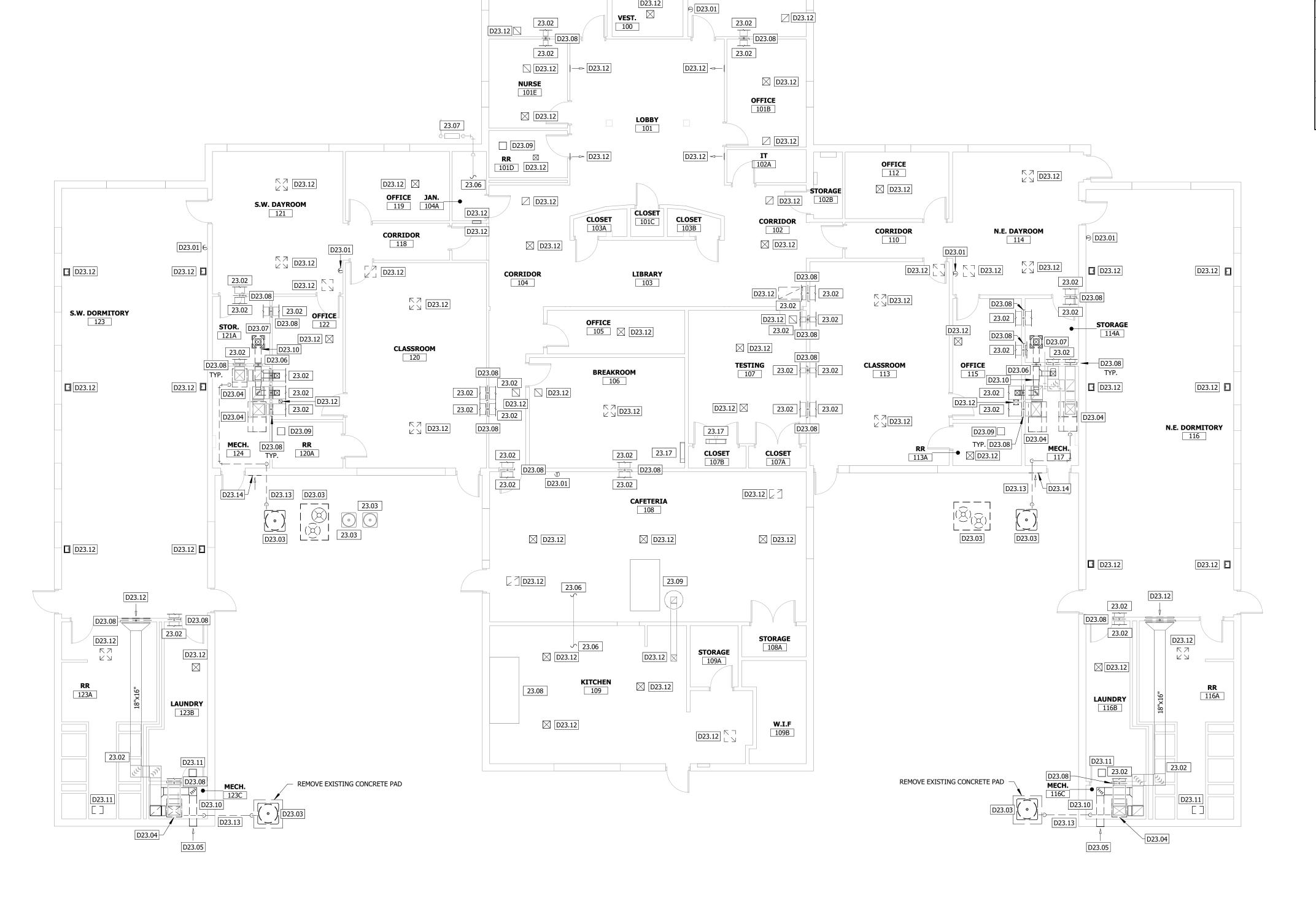
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DEMO MECHANICAL PLAN

SHEET NUMBER:



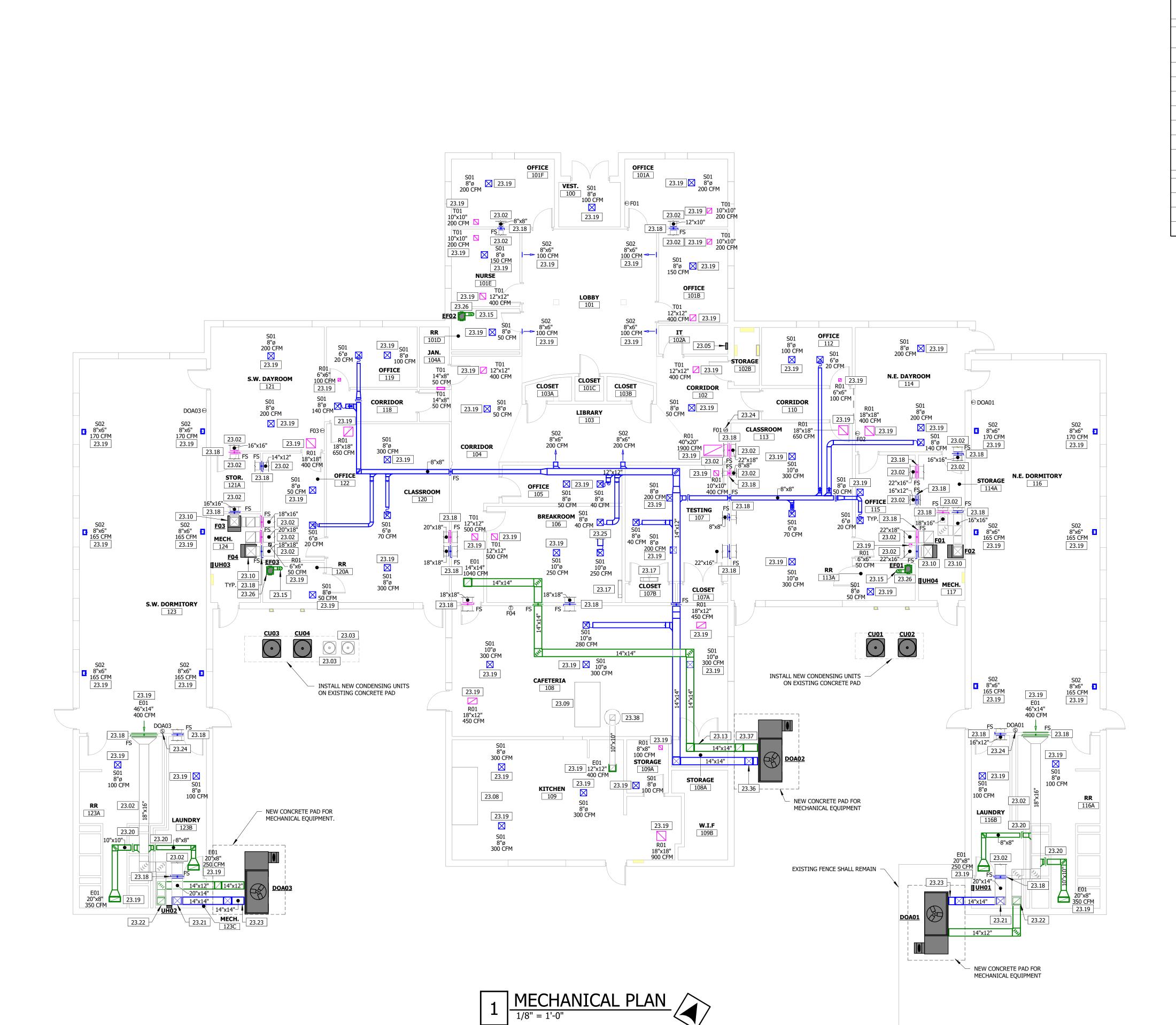
07/17/2025



OFFICE

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OFFICE



KEYNOTE LEGEND

KEYNOTE TEXT

23.02 EXISTING DUCTWORK SHALL REMAIN. 23.03 EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPI

23.05 LOCATION OF NEW BAS PANEL. 23.08 EXISTING KITCHEN HOOD AND ASSOCIATED DUCTWORK SHALL

23.09 EXISTING MAKEUP AIR UNIT LOCATED IN ATTIC AND ASSOCIATED DUCTWORK SHALL REMAIN.

23.10 INSTALL NEW FURNACE AND EVAPORATOR COIL IN PLACE OF EXISTING EQUIPMENT. CONNECT EXISTING SUPPLY AND RETURN DUCTWORK TO NEW EQUIPMENT. MAKE DUCTWORK MODIFICATIONS AS REQUIRED FOR NEW EQUIPMENT CONNECTIONS.

23.13 NEW VENTILATION AND EXHAUST DUCTWORK UP INTO ATTIC SPACE 23.15 ROUTE NEW 6" EXHAUST DUCT THROUGH EXISTING ROOF PENETRATION. TERMINATE IN ROOF CAP EQUIVALENT TO FAMCO BKXP. ROOF CAP SHALL HAVE BACKDRAFT DAMPER AND BIRD SCREE 23.17 EXISTING WALL MOUNT FAN TERMINAL UNIT AND ASSOCIATED

REFRIGERANT LINES OUT TO CONDENSING UNIT SHALL REMAIN. 23.18 ALTERNATE NO. 1: INSTALL NEW FIRE/SMOKE DAMPER IN EXISTING DUCTWORK. FIELD VERIFY EXISTING SIZE AND LOCATION.

23.19 INSTALL AIR DEVICE IN EXISTING CEILING/WALL OPENING. FIELD VERIFY EXISTING OPENING SIZE. 23.20 CONNECT NEW EXHAUST DUCT INTO EXISTING DUCT. FIELD VERIFY

EXISTING SIZE AND LOCATION. 23.21 CONNECT NEW 14"X14" SUPPLY DUCT TO EXISTING 20"X14" DUCT. FIELD VERIFY EXISTING SIZE AND LOCATION.

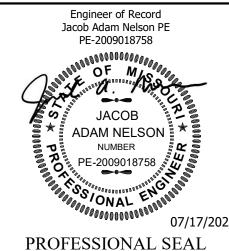
23.22 CONNECT NEW 14"X12" EXHAUST DUCT TO EXISTING 18"X16" DUCT. FIELD VERIFY EXISTING SIZE AND LOCATION. 23.23 CONNECT NEW 14"X14" SUPPLY AND 14"X12" EXHAUST TO NEW DOA

UNIT. PROVIDE FLEXIBLE CONNECTION TO UNIT. 23.24 PROVIDE TEMPERATURE AVERAGING SENSOR FOR EQUIPMENT CONTROL. COORDINATE REQUIREMENTS WITH CONTROLS AND ELECTRICAL CONTRACTOR.

23.25 CONNECT NEW SUPPLY AIR DUCT TO EXISTING SUPPLY DUCTWORK. 23.26 INSTALL NEW EXHAUST FAN IN EXISTING CEILING OPENING. MODIFY OPENING AS REQUIRED FOR NEW INSTALLATION. 23.36 ROUTE DUCTWORK UP OUTSIDE OF BUILDING AS HIGH AS POSSIBLE

BEFORE PENETRATING BUILDING. 23.37 CONNECT NEW 14"X14" SUPPLY AND 14"X14" EXHAUST TO NEW DOA UNIT. PROVIDE FLEXIBLE CONNECTION TO UNIT. 23.38 EXISTING EXHAUST FAN LOCATED ON ROOF AND ASSOCIATED DUCTWORK SHALL REMAIN.

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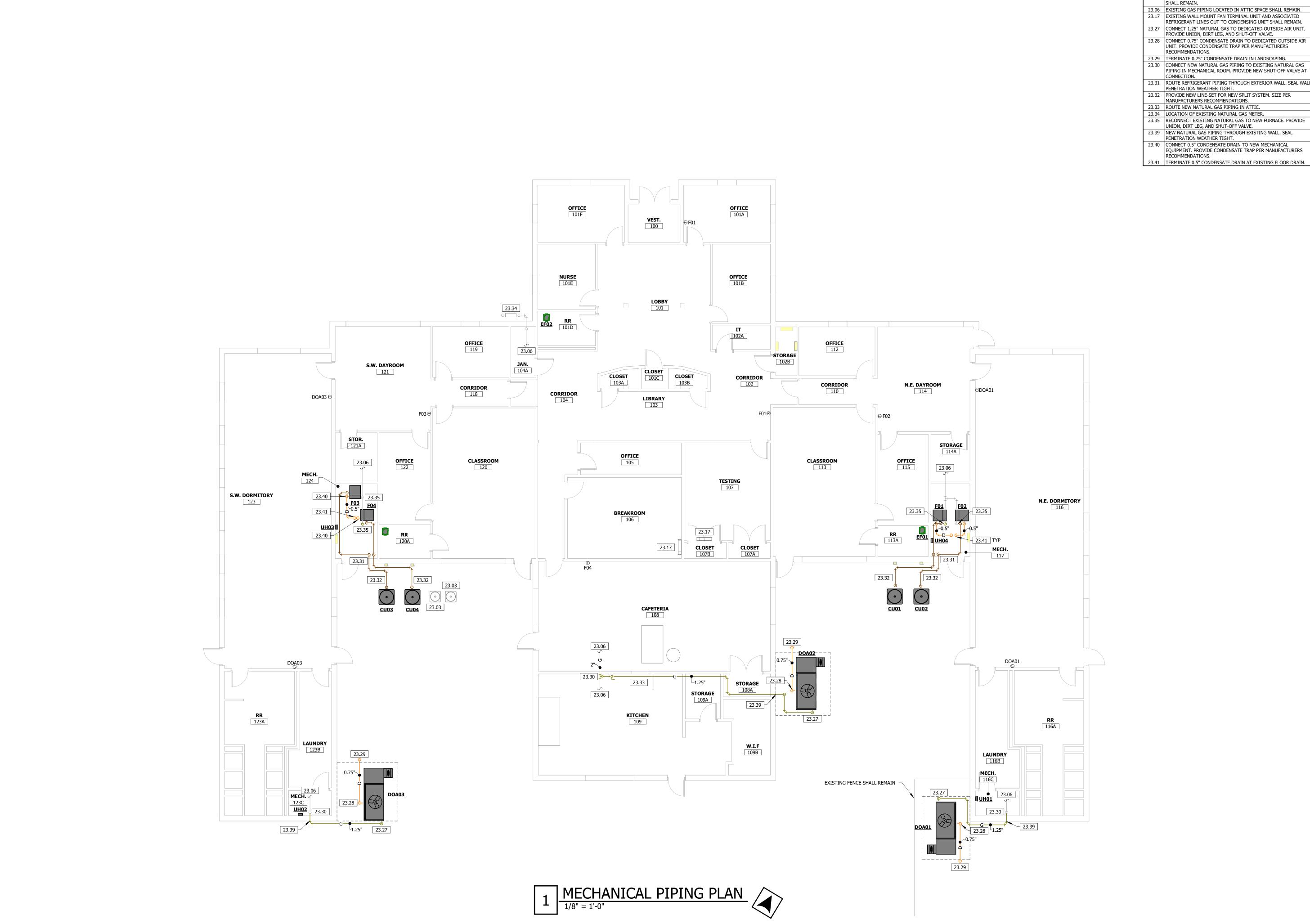
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MECHANICAL PLAN

SHEET NUMBER:

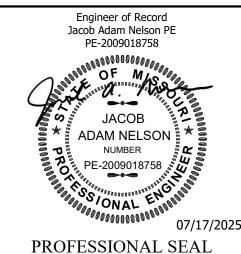
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KEYNOTE LEGEND

KEYNOTE TEXT 23.03 EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING

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MECHANICAL PIPING PLAN

SHEET NUMBER:

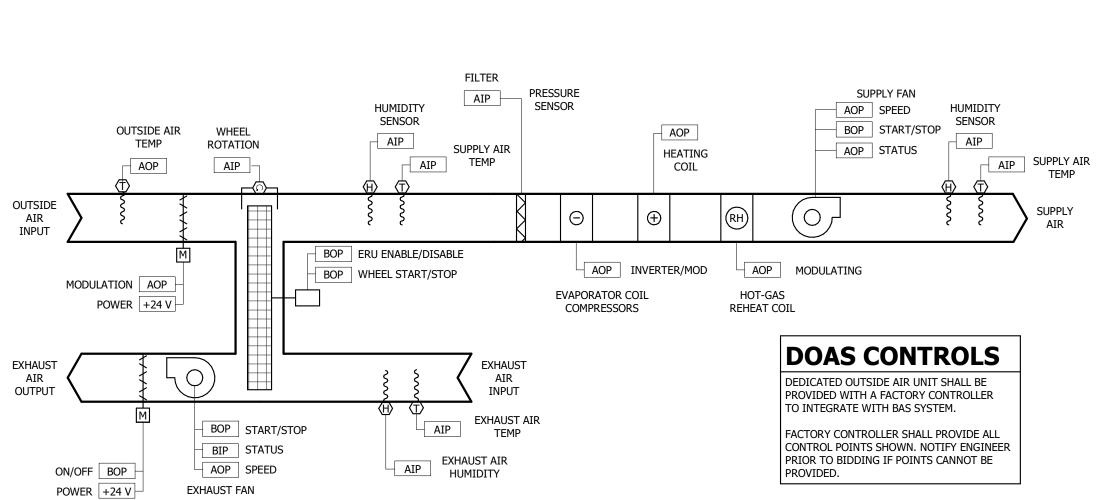




PENETRATION FOR TEMPERATURE -

SENSOR IN FREEZER/COOLER WALL.

COORDINATE PENETRATION WITH MANUFACTURER.



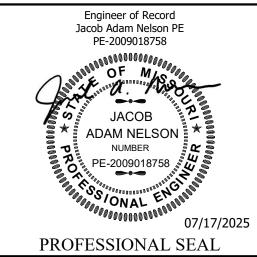
SUPPLY AIR TEMP

BAS - FREEZER/COOLER SENSOR
NOT TO SCALE

AIP TEMPERATURE

BAS - DEDICATED OUTSIDE AIR UNIT NOT TO SCALE

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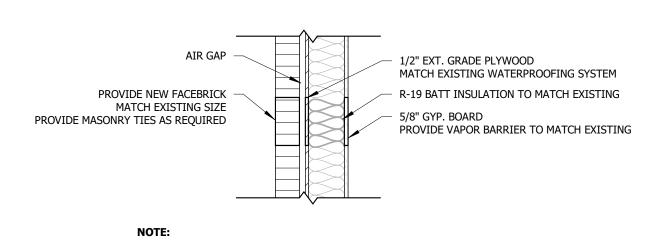
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SHEET TITLE:

BUILDING **AUTOMATION** CONTROL **DRAWINGS**

SHEET NUMBER:



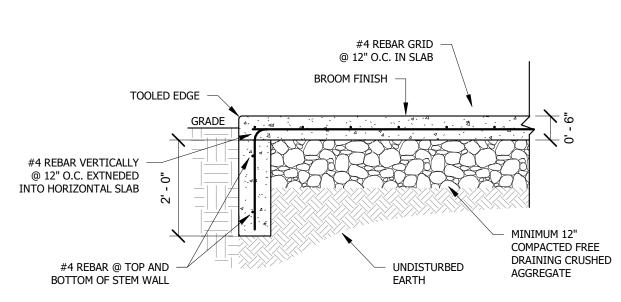


1. CONTRACTOR SHALL FIELD VERIFY AND MATCH EXISTING CONDITIONS.

8 EXTERIOR WALL REPAIR DETAIL





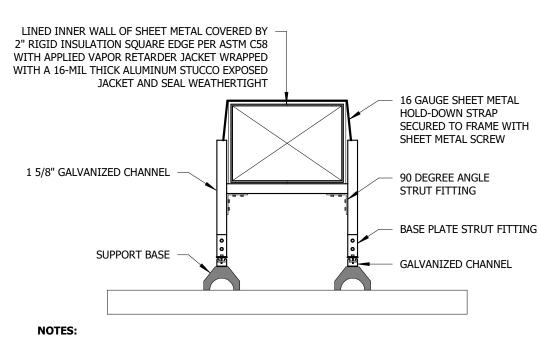


NOTES:

- 1. COORDINATE DIMENSIONS OF PAD WITH EQUIPMENT AND INCLUDE SUFFICIENT SPACE ON ALL SIDE FOR MAINTENANCE.
- 2. INSTALL EQUIPMENT ANCHOR BOLTS AS REQUIRED.

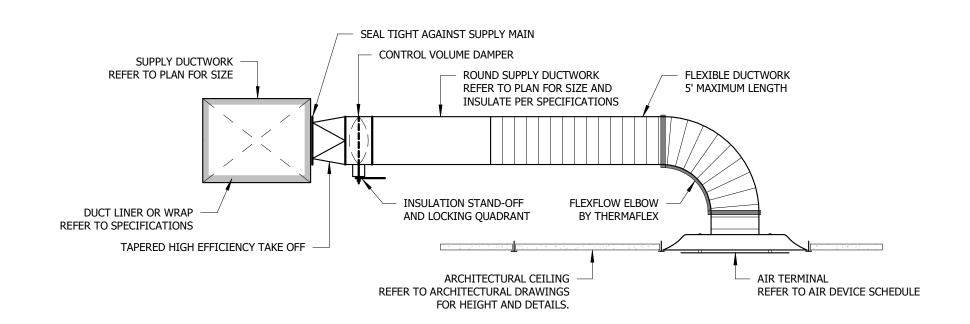
6 CONCRETE PAD

NOT TO SCALE

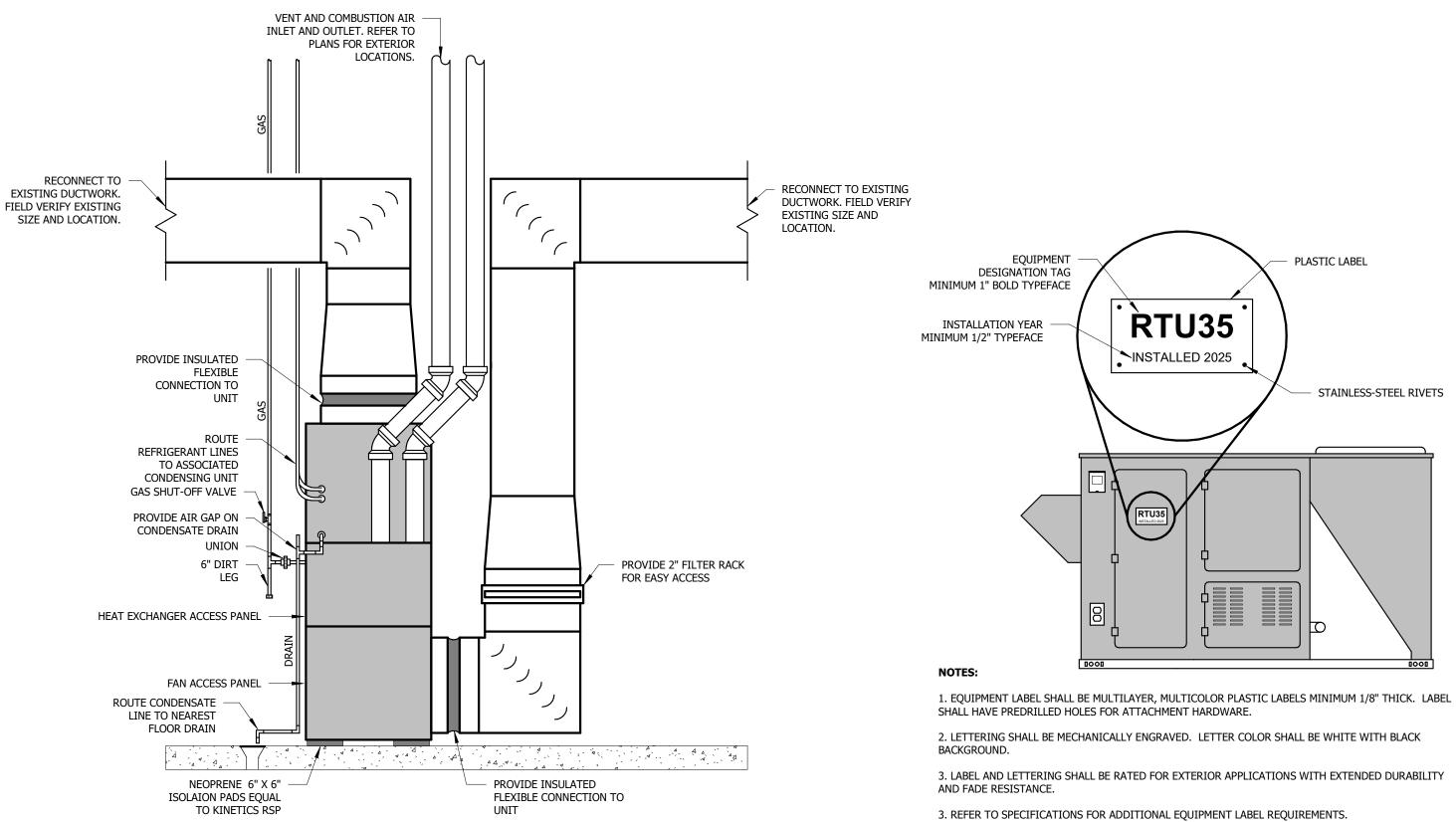


- 1. SUPPORT ASSEMBLY SHALL BE ADEQUATELY SIZED PER MANUFACTURERS REQUIREMENTS.
- 2. SPACE DUCT SUPPORTS IN ACCORDANCE WITH APPLICABLE CODES INCLUDING IMC.
- 3. SUPPORT ASSEMBLY SHALL BE EATON B-LINE SERIES STRUT SYSTEM WITH DURA-BLOK SUPPORT BASES OR APPROVED EQUAL.
- 4. PAINT SUPPORT ASSEMBLY WITH (2) COATS OF EXTERIOR RATED/UV RESISTANT ACRYLIC/ENAMAL.

5 EXTERIOR DUCTWORK



4 SUPPLY AIR DIFFUSER NOT TO SCALE

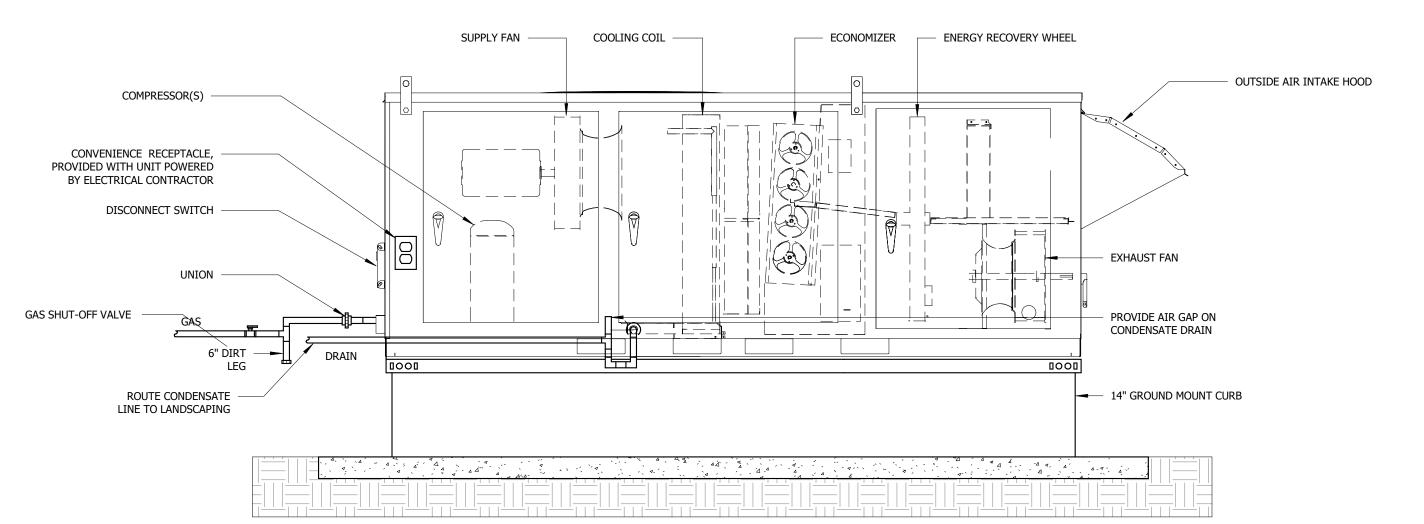


3 FURNACE

NOT TO SCALE

2 EQUIPMENT LABEL

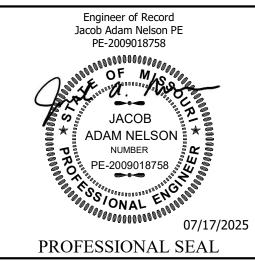
NOT TO SCALE



1 GROUND MOUNT DOA UNIT

NOT TO SCALE

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DIVISION OF YOUTH
SERVICES

GENTRY RESIDENTIAL TREATMENT CENTER REPLACE HVAC

2001 DYS DR, CABOOL, MO 65689-9166

PROJECT # H2409-01 SITE # 7712

FACILITY # 8877712003

REVISION:
DATE:
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REVISION:

DATE: ISSUE DATE: 07/17/2025

CAD DWG FILE: H2409-01 DRAWN BY: KP CHECKED BY: JN DESIGNED BY: JK

SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:



	UNIT HEATER SCHEDULE												
NOTES:													
1.	FACTORY MOUNTED	THERMOSTAT											
2.	FACTORY INSTALLED ELECTRICAL SERVICE DISCONNECT SWITCH.												
3.	PROVIDE SURFACE	MOUNT KIT.											
TYPE MARK	MANUFACTURER	MODEL NUMBER	KW	FLA	МОСР	VOLTAGE	NOTES	EQUIVALENTS					
UH01	QMARK	LKF151F	1.5	12.5	20	120/1	1,2,3	SEE SPECS					
UH02	QMARK	LKF151F	1.5	12.5	20	120/1	1,2,3	SEE SPECS					
UH03	QMARK	LKF151F	1.5	12.5	20	120/1	1,2,3	SEE SPECS					
UH04	OMARK	LKF151F	1.5	12.5	20	120/1	1,2,3	SEE SPECS					

				AIR	DEVIC	E SCH	DULE				
NOTES:											
1.	GRILLE/DIFFUSER	NECK SHALL BE SAME	SIZE AS BRANCH	DUCTWORK U	NLESS NOTED OT	HERWISE ON PLAN	١.				
2.	DIFFUSER DISCHA	RGE AIR PATTERN SH	ALL BE 4-WAY UN	LESS NOTED BY	DIRECTION ON I	PLANS.					
3.	GRILLE/DIFFUSER	SHALL BE FIELD PAIN	TABLE.								
4.	PROVIDE PLASTER	R FRAME ADAPTER FOR	R LAY-IN INTO GY	PSUM CEILING.							
TYPE MARK	SYTEM TYPE	MANUFACTURER	MODEL NUMBER	MODULE SIZE	FRAME	FINISH	DAMPER	MAX NC RATING	EXTERNAL STATIC (WC)	NOTES	EQUIVALENTS
E01	EXHAUST	KRUEGER	EGC5	SEE PLAN	SURFACE	PAINT	OBD	30	0.1"	1,3	TITUS, PRICE
R01	RETURN	KRUEGER	EGC5	SEE PLAN	SURFACE	PAINT	-	30	0.08"	1,3	TITUS, PRICE
S01	SUPPLY	KRUEGER	PLQ	12" X 12"	SURFACE	WHITE	PRN100	30	0.1"	1,2,4	TITUS, PRICE
S02	SUPPLY	KRUEGER	880	SEE PLAN	SURFACE	PAINT	OBD	30	0.1"	1,3	TITUS, PRICE
T01	TRANSFER	KRUEGER	EGC5	SEE PLAN	SURFACE	PAINT	-	30	0.08"	1,3	TITUS, PRICE

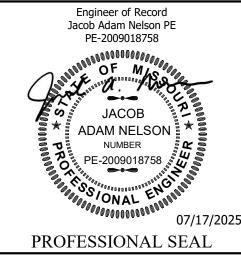
				EXHAUS	T FAN S	CHEDUI	LE			
NOTES:										
1.	FACTORY MOUNTED DISC	ONNECTING MEANS.								
2.	FAN SPEED CONTROLLER.									
3.	VIBRATION ISOLATION SI	JPPORTS.								
4.	WHITE PLASTIC GRILLE.									
5.	FAN SHALL BE WIRED THI	ROUGH LIGHT SWITCH.								
TYPE MARK	MANUFACTURER	MODEL NUMBER	CFM	EXTERNAL STATIC (WC)	MOUNTING	FINISH	VOLTAGE	MOTOR HP (WATTS)	NOTES	EQUIVALENTS
EF01	COOK	GC-128	75	0.25"	CEILING	STANDARD	120/1	(26)	1,2,3,4,5	SEE SPECS
EF02	COOK	GC-128	75	0.25"	CEILING	STANDARD	120/1	(26)	1,2,3,4,5	SEE SPECS
EF03	COOK	GC-128	75	0.25"	CEILING	STANDARD	120/1	(26)	1,2,3,4,5	SEE SPECS

				CONDE	NSIN	G UN	IT SC	HED	ULE				
NOTES:													
1.	REFER TO SPECIFIC	ATIONS FOR RE	FRIGERANT PIPING I	INSULATION REQUIREM	1ENTS.								
2.	PROVIDE ALL REFRI	GERATION SYS	TEM ACCESSORIES R	EQUIRED BY MANUFAC	TURER FOR G	IVEN LINE SE	T ROUTING.						
3.	TWO STAGE COMPR	ESSOR FOR TW	O STAGES OF COOLI	NG CAPACITY.									
4.	PROVIDE REFRIGER	ANT DETECTIO	N SYSTEM.										
TYPE MARK	MANUFACTURER	TONNAGE	CONDENSER MODEL NUMBER	COIL MODEL NUMBER	ENTERING AIR DB	ENTERING AIR WB	SENSIBLE (MBH)	TOTAL (MBH)	MCA	МОСР	VOLTAGE	NOTES	EQUIVALENTS
CU01	RHEEM	5	RA13NY60AJ1NA	RCFY6024STANMC	72	60	40.1	44.8	31	50	208/1	1,2,3,4	SEE SPECS
CU02	RHEEM	4	RA13NY48AJ1NA	RCFY4821STAAMC	72	60	28.5	39.2	30	50	208/1	1,2,3,4	SEE SPECS
CU03	RHEEM	3	RA13NY36AJ1NA	RCFY3617STANMC	72	60	25.2	31.8	22	35	208/1	1,2,3,4	SEE SPECS
CU04	RHFFM	5	RA13NY60A11NA	RCFY6024STANMC	72	60	43.9	51.2	31	50	208/1	1.2.3.4	SFF SPFCS

					FURN	ACE SCH	HEDULE						
NOTES:						/\C_ \C.							
1.	TWO STAGE NATURA	AL GAS HEAT.											
2.	PROVIDE ACCESSIBL	E FILTER RACK AND 1"	FILTERS WITH MINI	MUM MERV 8 RATING	3.								
3.	COMBUSTION INTAK	E AND EXHAUST CONCE	ENTRIC ROOF TERMI	NATION KIT.									
4.	PROVIDE TERMINAL	STRIP FOR CONTROL B	Y BAS CONTRACTOR	. COORDINATE WITH	I BAS CONTRACTOR.								
5.	TWO STAGE FAN TO	MATCH HEATING/COOL	LING CAPACITY.										
TYPE MARK	MANUFACTURER	MODEL NUMBER	SUPPLY AIR (CFM)	EXTERNAL STATIC (WC)	ENTERING AIR DB	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	LEAVING AIR DB	МСА	МОСР	VOLTAGE	NOTES	EQUIVALENTS
F01	RHEEM	R96TA0852521MSA	1900	0.5"	60	84	82	95	13.3	20	120/1	1,2,3,4,5	SEE SPECS
F02	RHEEM	R96TA0702521MSA	1600	0.5"	60	70	68	95	11.6	20	120/1	1,2,3,4,5	SEE SPECS
F03	RHEEM	R96TA0702521MSA	1200	0.5"	60	70	68	95	8.0	15	120/1	1,2,3,4,5	SEE SPECS
F04	RHEEM	R96TA0852521MSA	1900	0.5"	60	84	82	95	13.3	20	120/1	1,2,3,4,5	SEE SPECS

											DEI	DIC/	ATED (OUTS	IDE A	IR UN	IT SC	CHEDU	LE										
NOTES:																													
	FACTORY MOUNTED DIS	ISCONNECTING MEAN	IS.																										
2.	MOTORIZED EXHAUST A	AND OUTSIDE AIR DA	AMPERS.																										
3.	2" MERV 8 FILTERS ON	SUPPLY AND EXHAUS	ST AIR STREAM	S.																									
4.	WHEEL ROTATION SENS	ISOR.																											
5.	DIRTY FILTER SENSOR																												
6.	TIMED EXHAUST FROST	T CONTROL.																											
7.	INTAKE AND EXHAUST I	HOOD.																											
8.	DOUBLE WALL CONSTRI	RUCTION.																											
9.	INTEGRATE WITH BAS S	SYSTEM. COORDINAT	TE WITH BAS CO	ONTRACTOR.																									
10.	VARIABLE SPEED SUPPL	LY AND EXHAUST FAI	٧.																										
11.	HIGH TURNDOWN MOD	DULATING GAS HEAT.	BURNER SHALL	BE SIZED ASS	SUMING ERW IS	OFF.																							
12.	MODULATING HOT GAS	S REHEAT COIL TO MA	AINTAIN LEAVII	NG AIR RELATI	IVE HUMIDITY C	F 50% RH.																							
13.	FACTORY WIRIED, FACT	TORY POWERED CON	IVENIENCE REC	EPTACLE.																									
14.	CONDENSER HAIL GUAR	RDS.																											
15.	REFER TO SPECIFICATION	ONS FOR COMPRESS	OR AND HEAT E	XCHANGER W	ARRANTIES.																								
16.	VARIABLE SPEED OR DI	IGITAL COMPRESSOR	(S) FOR MODUL	ATING COOLI	ING CONTROL.																								
17.	FACTORY STARTUP REC	QUIRED BY EQUIPME	NT REP, CONTR	OLS CONTRAC	CTOR, AND MECH	HANICAL CONTR	RACTOR.				_																		
TVDE			SUPPLY	EXHAUST			ENERGY F	RECOVERY			SUPPLY	FAN	EXHAUS	T FAN			COOLING				HEA	TING							
TYPE MARK	MANUFACTURER	MODEL NUMBER		AIR (CFM)		COOLING			HEATING		ESP (WC)	HP	ESP (WC)	НР	EAT	SENSIBLE	TOTAL	HGRH (MBH)	LAT	ETA	INPUT	OUTPUT	LAT	VOLTAGE	MCA	МОСР	WEIGHT	NOTES	EQUIVALENTS
							OA (DB/WB))		- (-)		(DB/WB)	(MBH)	(MBH)	` `	(DB/WB)	(DB/WB)	(MBH)	(MBH)	(DB/WB)						
DOA01	AAON	RQ-005	1200	1000	83.3/67.8	72.0/60.0	95.0/74.0	33.9/27.5	72.0/60.0	0.0/0.0	1.0"	2	0.5"	1	83.3/67.8	39.0	57.3	25.1	55.0/54.0	33.9/27.5	140	113.4	95.0/60.0	208/3	38	50	1430	1 THRU 17	SEE SPECS
DOA02	AAON	RQ-005	1300	1040	84.2/68.3	72.0/60.0	95.0/74.0	31.3/25.8	70.0/50.0	0.0/0.0	1.0"	2	0.5"	1	84.2/68.3	41.1	58.8	24.9	72.0/60.0	31.3/25.8	140	113.4	70.0/50.0	208/3	38	50	1430	1 THRU 17	SEE SPECS
DOA03	AAON	RQ-005	1200	1000	83.3/67.8	72.0/60.0	95.0/74.0	33.9/27.5	72.0/60.0	0.0/0.0	1.0"	2	0.5"	1	83.3/67.8	39.0	57.3	25.1	55.0/54.0	33.9/27.5	140	113.4	95.0/60.0	208/3	38	50	1430	1 THRU 17	SEE SPECS

STATE OF MISSOURI MIKE KEHOE, GOVERNOR





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CAD DWG FILE: H2409-01 DRAWN BY: KP CHECKED BY: JN DESIGNED BY: JK

DESIGNED BY:
SHEET TITLE:

MECHANICAL

SCHEDULES

SHEET NUMBER:

M-301
9 OF 12 SHEETS

07/17/2025

7/17/2025 16:46:44

ELECTRICAL DEMO NOTES:

1. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLISHED ITEMS.

2. THE CONTRACTOR SHALL FIELD VISIT THE SITE TO CONFIRM EXISTING CONDITIONS.

3. REMOVE CONDUIT, CONDUCTORS, SUPPORTS, ETC. BACK TO ELECTRICAL PANEL.

4. CONTRACTOR SHALL REPAIR ALL HOLES CREATED BY REMOVAL OF EXISTING ELECTRICAL EQUIPMENT.

KEYNOTE LEGEND

KEY VALUE KEYNOTE TEXT

26.03 EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN.

26.19 EXISTING MAIN DISTRIBUTION PANELBOARD. EXISTING PANEL IS A

SQUARE D, I-LINE, 208Y/120-VOLT, 800-AMP PANELBOARD.

EXISTING BRANCH PANELBOARD. EXISTING PANEL IS A SQUARE D, NQ, 208Y/120-VOLT, 225-AMP PANELBOARD.

 EXISTING THERMOSTAT ROUGH-IN SHALL REMAIN.

26.21 EXISTING THERMOSTAT ROUGH-IN SHALL REMAIN.
 28.01 LOCATION OF EXISTING FIRE ALARM CONTROL PANEL. EXISTING PANEL IS A HONEYWELL SILENT NIGHT PANEL.
 D26.01 REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL

EQUIPMENT AND ASSOCIATED DISCONNECT AND CONDUIT AND CONDUCTORS BACK TO PANELBOARD.

D26.02 REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND PREPARE CONDUIT AND CONDUCTORS FOR NEW CONNECTION. REFER TO IMPROVEMENT PLAN FOR ADDITIONAL

JACOB

* ADAM NELSON

NUMBER

PE-2009018758

07/17/2025

PROFESSIONAL SEAL

STATE OF MISSOURI

MIKE KEHOE,

GOVERNOR

Jacob Adam Nelson PE

PE-2009018758



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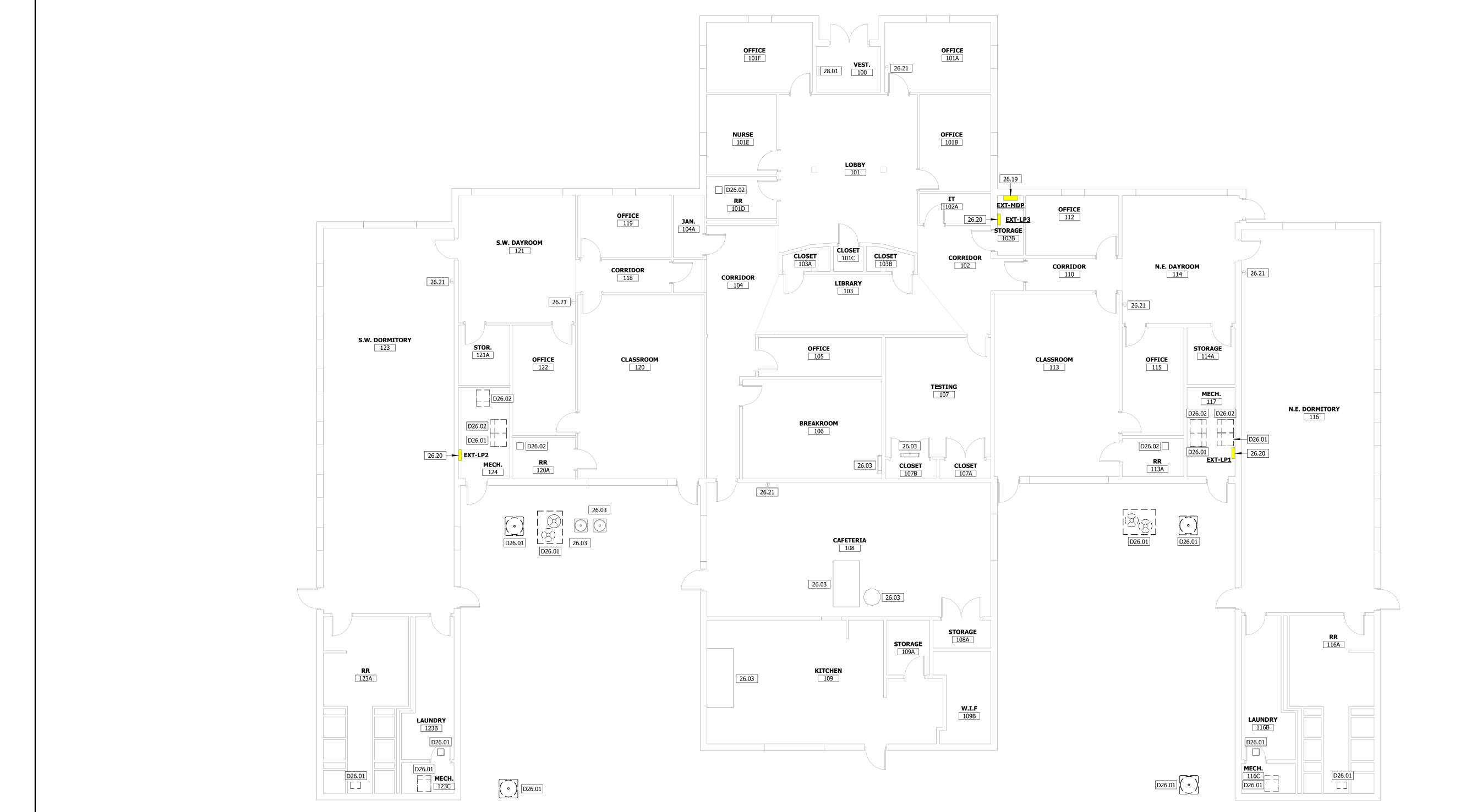
DEMO ELECTRICAL PLAN

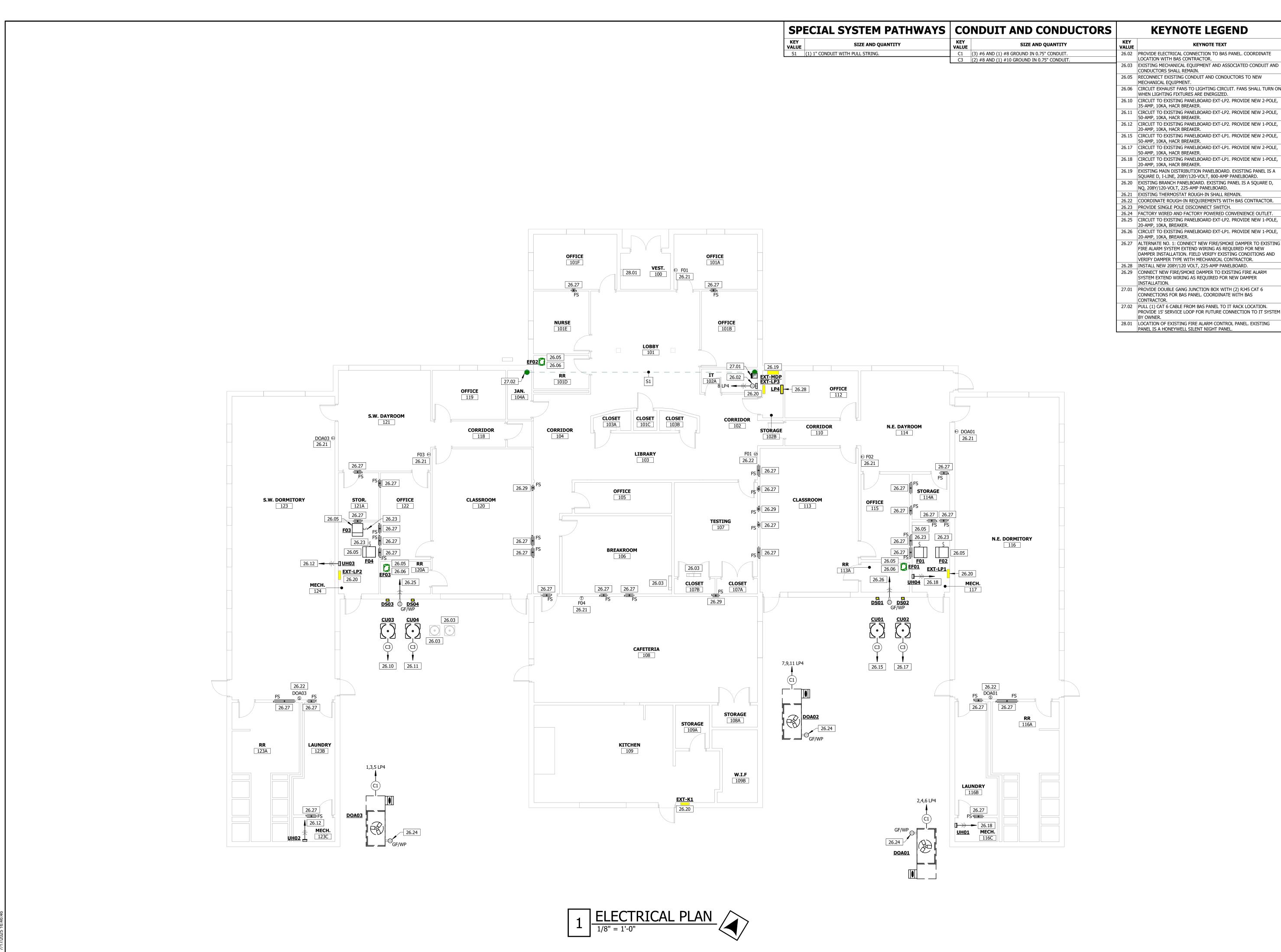
SHEET NUMBER:

E-001
10 OF 12 SHEETS

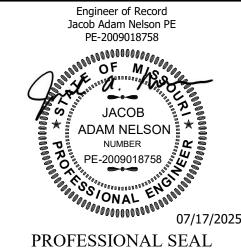
07/17/2025







STATE OF MISSOURI MIKE KEHOE, **GOVERNOR**



MECHANICAL · ELECTRICAL · PLUMBING 1200 E WOODHURST DR, STE P SPRINGFIELD, MO 65804

417.708.7025

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN **AND CONSTRUCTION DEPARTMENT OF** SOCIAL SERVICES **DIVISION OF YOUTH SERVICES**

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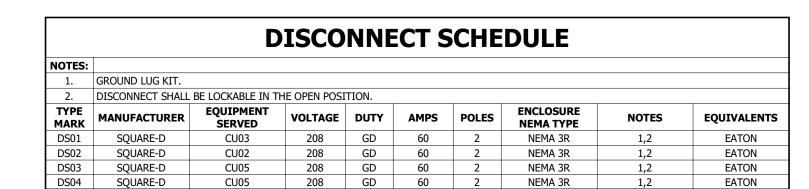
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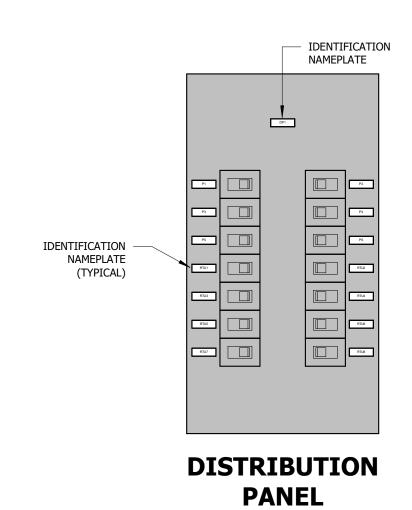
ELECTRICAL PLAN

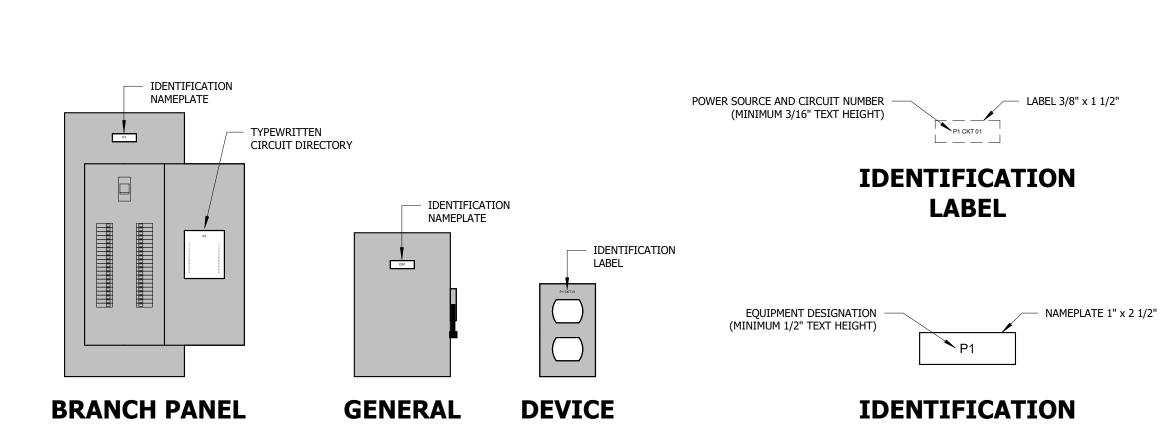
SHEET NUMBER:

E-101



	Location Supply From Mounting Enclosure Doard Accessories: EALED HINGE, 2. FLUSH LOCKS	i: EXT-M i: SURFA i: NEMA	IDP ACE 1		, 4. REFER		Phases: Wires:	4		ERIAL		Mains Mains R	ating: 10 kA Type: MLO ating: 225 A Model: NQ		
СКТ	CIRCUIT DESCRIPTION	TRIP	СВ АСС	POLES		A	E	3		с	POLES	СВ АСС	TRIP CIF	CUIT DESCRIPTION	СК
1	DOA03	50 A	HACR	3	4564 VA	4564 VA					3	HACR	50 A	DOA01	2
3							4564 VA	4564 VA							4
5									4564 VA	4564 VA					6
7	DOA02	50 A	HACR	3	4323 VA	180 VA					1		20 A	BAS PANEL	8
9							4323 VA	0 VA			1		20 A	Spare	10
11									4323 VA	0 VA	1		20 A	Spare	12
13	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	14
15	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	16
17	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	18
19	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	20
21	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	22
23	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	24
25	Spare	20 A		1	0 VA	0 VA					1		20 A	Spare	26
27	Spare	20 A		1			0 VA	0 VA			1		20 A	Spare	28
29	Spare	20 A		1					0 VA	0 VA	1		20 A	Spare	30
31	Spare	20 A		1	0 VA	0 VA	0.1/4	0.144			1		20 A	Spare	32
33	Spare	20 A		1			0 VA	0 VA	0.1/4	0.1/4	1		20 A	Spare	34
35 37	Spare	20 A 20 A		1	0 VA	0 VA			0 VA	0 VA	1		20 A 20 A	Spare	36
39	Spare Spare	20 A		1	UVA	UVA	0 VA	0 VA			1		20 A	Spare	38
41	Spare	20 A		1			UVA	UVA	0 VA	0 VA	1		20 A	Spare Spare	42
41	Spare		Total Load		1363	L VA	1345	1 \/Λ		51 VA			20 A	Spare	42
			Total Amp		114		112			2 A					
	= HACR RATED, 2. HLO = HANE			= GROUNI	D FAULT CI	RCUIT IN	ΓERRUPTER	R, 4. AFCI	= ARC FAU	ILT CIRCUIT		JPTER			
	assification				cted Load	D	emand Fac			ed Demand	ı		Panel	Totals	
HVAC					52 VA		100.00%			52 VA					
Recepta	cle			18	0 VA		100.00%		18	0 VA			tal Conn. Load:		
												Tota	al Est. Demand:		
												T-4-	Total Conn.:		
												100	al Est. Demand:	113 A	





NOTES:

1. INTERIOR IDENTIFICATION NAMEPLATES SHALL BE MULTILAYER PLASTIC/ACRYLIC WITH MINIMUM THICKNESS OF 1/8" AND BEVELED EDGES. NAMEPLATES SHALL BE ATTACHED WITH ADHESIVE.

2. EXTERIOR IDENTIFICATION NAMEPLATES SHALL BE ALUMINUM OR STAINLESS STEEL WITH MINIMUM THICKNESS OF 1/32".

NAMEPLATES SHALL BE ATTACHED WITH RIVETS.

EQUIPMENT

3. IDENTIFICATION NAMEPLATE LETTERING SHALL BE MECHANICALLY ENGRAVED.

4. COLOR FOR IDENTIFICATION NAMES PLATES:
A. NORMAL POWER SYSTEMS: WHITE TEXT WITH BLACK BACKGROUND

B. EMERGENCY POWER SYSTEMS: WHITE TEXT WITH RED BACKGROUND

5. IDENTIFICATION LABELS SHALL BE SELF-ADHESIVE LAMINATED PLASTIC LABELS WITH BLACK TEXT ON CLEAR BACKGROUND.6. REFER TO SPECIFICATION SECTION 26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR ADDITIONAL REQUIREMENTS.



GENERAL NOTES:

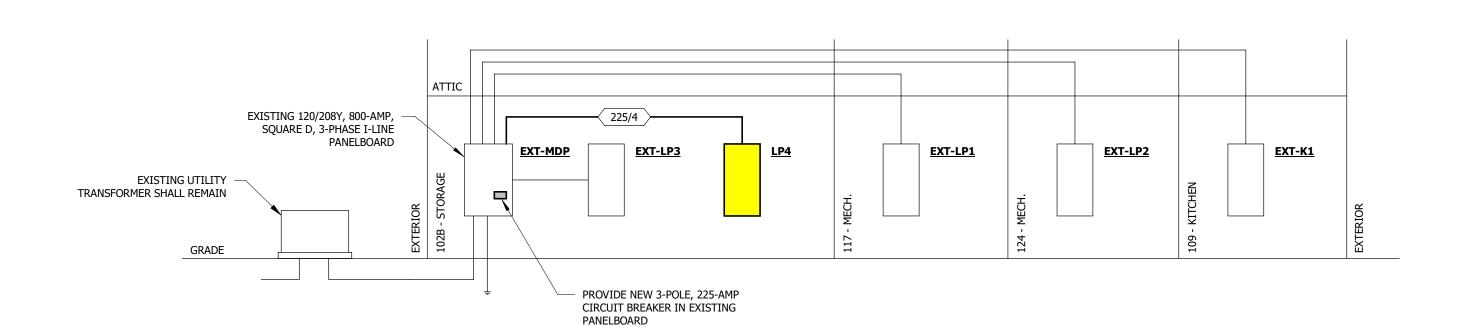
1. JUNCTION BOX/CABINET(S) SHALL BE SIZED PER NEC REQUIREMENTS, AND BEAR NEMA ENCLOSURE RATING FOR APPLICABLE INSTALLATION ENVIRONMENT.

2. EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, RATINGS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED.

3. ALL CONDUCTORS ARE COPPER UNLESS NOTED

		ER SCI											
	ALL CONDUCTORS SHALL BE COPPER PER SPECIFICATIONS CONDUCTORS CONDUCTORS												
FEEDER MARK	DER PARALLEL CURPENT CONDUIT												
225/4	1	(4) #4/0	(1) #4	2.5"									

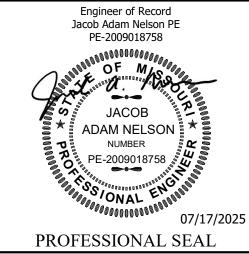
NAMEPLATE



1 ELECTRICAL RISER

NOT TO SCALE

STATE OF MISSOURI MIKE KEHOE, GOVERNOR





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ELECTRICAL DETAILS AND SCHEDULES

SHEET NUMBER:

E-201