

REPLACE STEAM HEATING UNITS

MISSOURI SCHOOL FOR THE DEAF

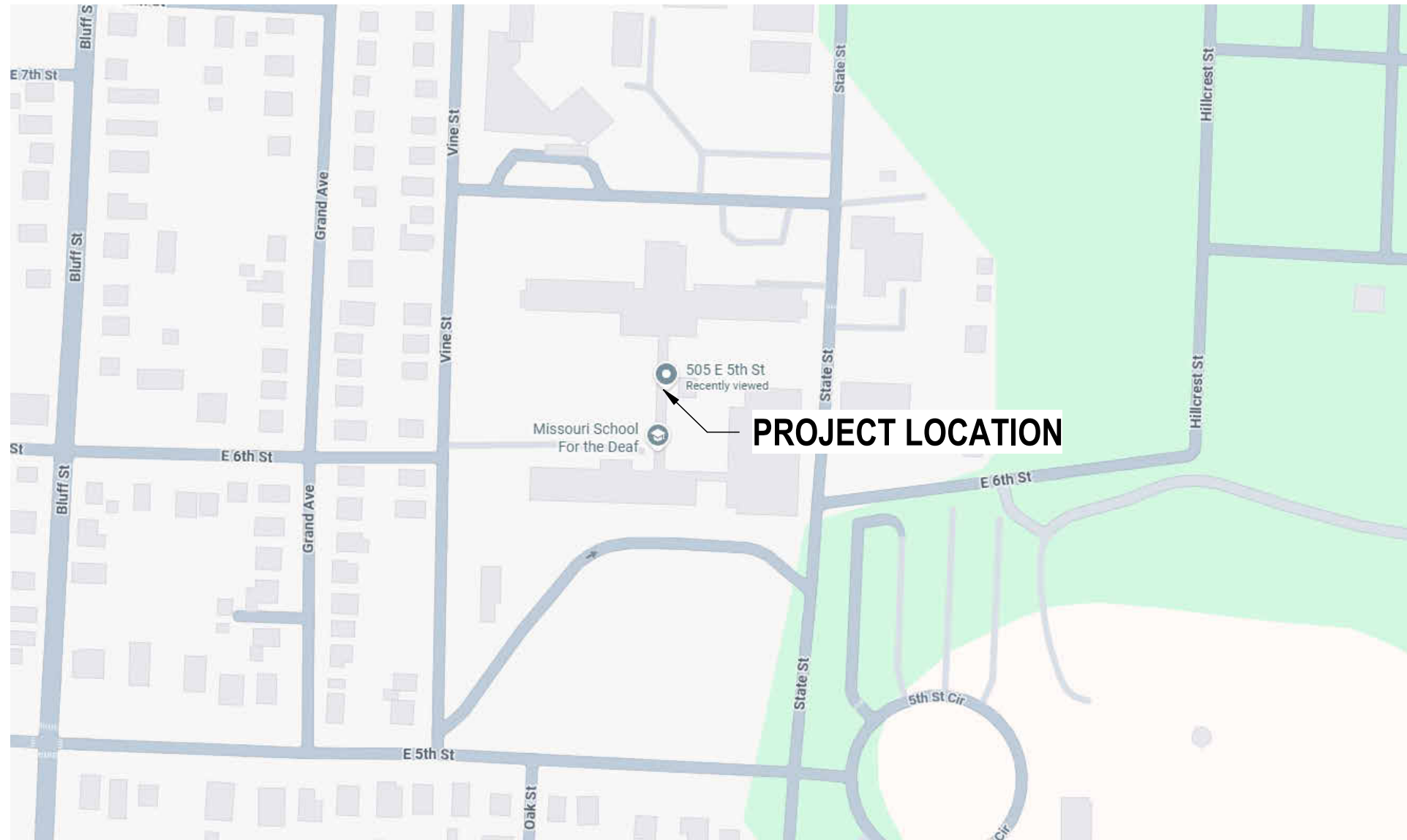
Fulton, MO 65251



OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
ELEMENTARY AND
SECONDARY EDUCATION

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

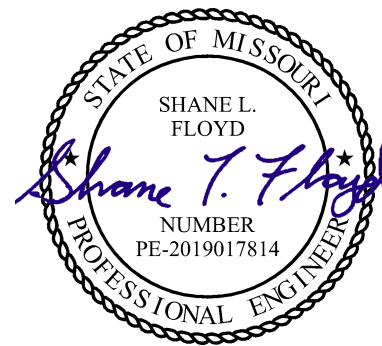


DESIGNER: MEP ENGINEER
TIMBERLAKE ENGINEERING
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912 OLD 63 SOUTH
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STRUCTURAL ENGINEER
CROCKETT ENGINEERING CONSULANTS
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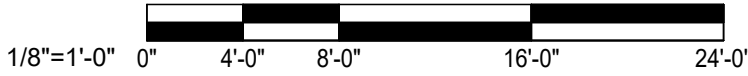
PROJECT NUMBER: E2508-01

SITE NUMBER: 2001
FACILITY NUMBER: 5012001009



Shane Floyd, P.E.
PE-2019017814
MO Certificate of Authority #000239

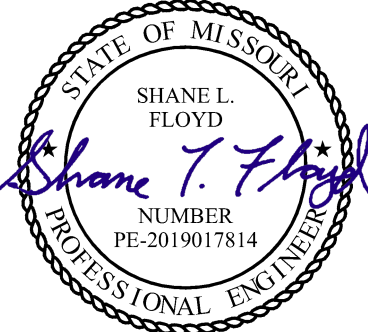
SHEET NUMBER:
G-001
SHEET 1 OF 15
ISSUE DATE: 03/26/2026



BASED ON THE FOLLOWING CODES		
2018	INTERNATIONAL BUILDING CODE	
2018	INTERNATIONAL MECHANICAL CODE	
2018	INTERNATIONAL PLUMBING CODE	
2018	INTERNATIONAL FUEL GAS CODE	
2018	INTERNATIONAL FIRE CODE	
2018	INTERNATIONAL ENERGY CONSERVATION CODE	
2017	NATIONAL ELECTRIC CODE	

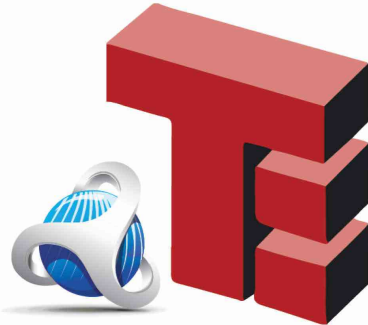
SHEET LIST	
SHEET NUMBER	SHEET TITLE
G-001	COVER SHEET
G-002	CODES & SHEET LIST
S100	COVER SHEET, FRAMING PLAN, & DETAIL
M000	MECHANICAL NOTES, SPECIFICATIONS, AND LEGENDS
MD101	DEMO MECHANICAL HVAC PLAN
MD102	DEMO MECHANICAL ROOF PLAN
M101	MECHANICAL PIPING PLAN
M102	MECHANICAL HVAC PLAN
M103	MECHANICAL ROOF PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
E000	ELECTRICAL NOTES, SPECIFICATIONS, AND LEGENDS
E100	ELECTRICAL POWER PLAN
E101	ROOF POWER PLAN
E500	ELECTRICAL SCHEDULES & DETAILS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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03/26/2026



Timberlake
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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

Replace Steam Heating Units
Missouri School For The Deaf
Fulton, MO 65251

505 E. 5th Street
Fulton, MO 65251

PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
CODES & SHEET
LIST

SHEET NUMBER:
G-002
SHEET 2 OF 15
ISSUE DATE: 03/26/2026



Jared Versluis, P.E.
PE-2017000387

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Missouri Certificate of Authority
#2000151304

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

Replace Steam Heating Units
Missouri School For The Deaf
Harrison Gym & Ingle
Auditorium, MSD

505 E. 5th Street
Fulton, MO 65251

PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

REVISION	DATE

ISSUE DATE:03/26/26

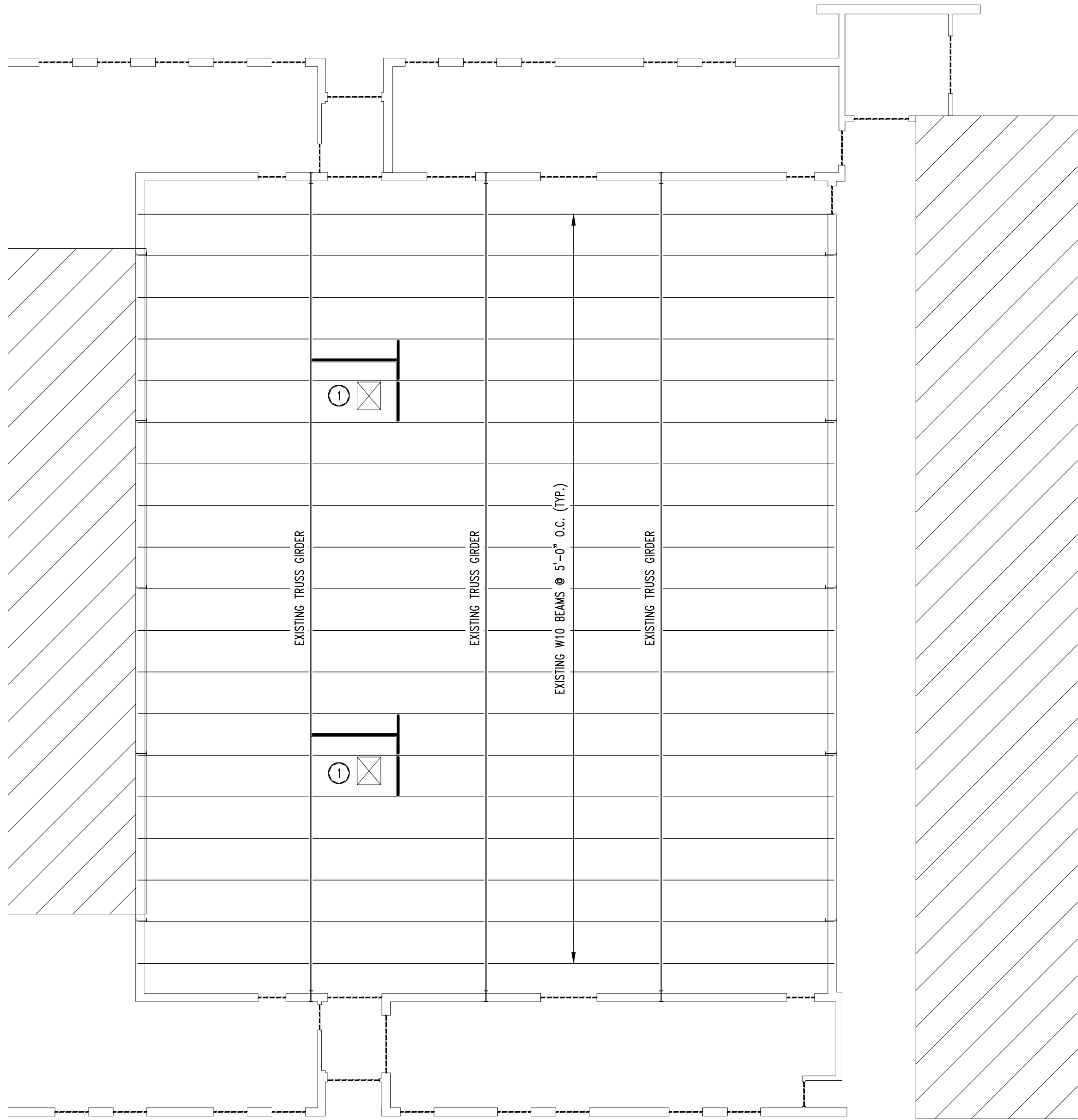
CAD DWG FILE: 250265
DRAWN BY: SEH
CHECKED BY: JWV
DESIGNED BY: JWV

SHEET TITLE:
COVER SHEET,
FRAMING PLAN
& DETAIL

SHEET NUMBER:

S100

SHEET 3 OF 15
ISSUE DATE: 03/26/2026



1
S200

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

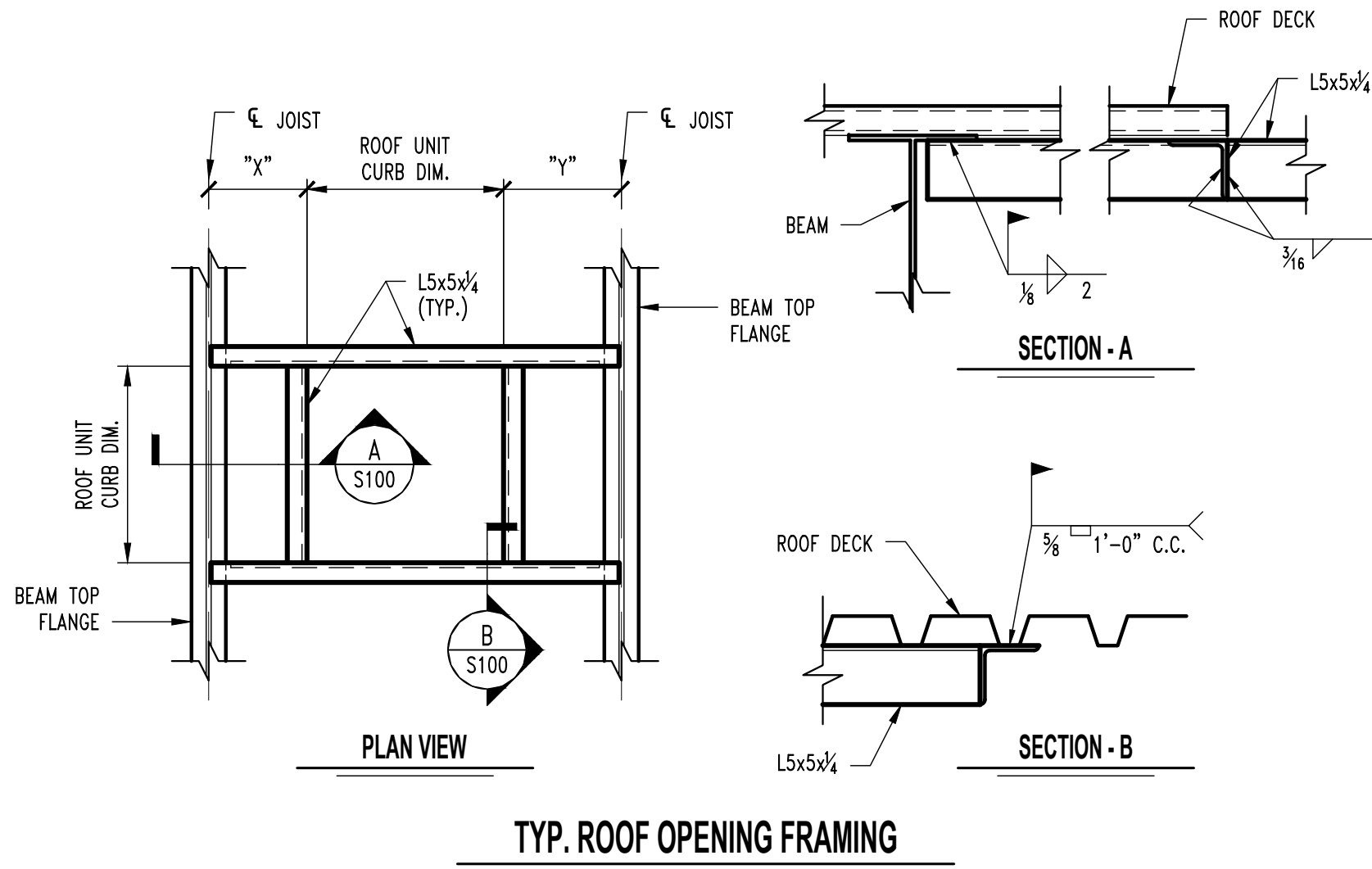


FRAMING NOTES

- 1 REFER TO TYPICAL ROOF OPENING FRAMING DETAIL S1/S100. VERIFY LOCATION SIZE AND LOCATION WITH FINAL RTU LAYOUT PRIOR TO INSTALLATION.

STRUCTURAL STEEL

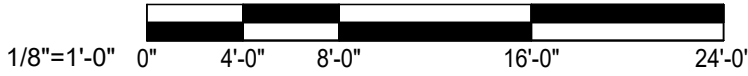
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR UNIVERSAL METAL PRIMER (V131/HP1320)(COROTEC) OR KEM KROMIK UNIVERSAL METAL PRIMER (SHERWIN-WILLIAMS) OR APPROVED EQUAL. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.



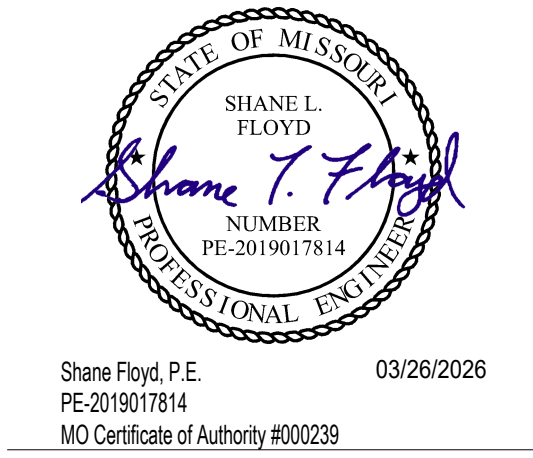
GENERAL MECHANICAL & GAS SYMBOLS		
	REVISION NUMBER - SHOWN ON PLANS	
	POINT WHERE NEW CONNECTS TO EXISTING OR EXISTING SEPARATES FROM DEMOLISHED	
	DETAIL NUMBER ON SHEET	
	SHEET NUMBER WHERE DETAIL APPEARS	
	KEYNOTE	
	CONTINUATION SYMBOL	
	ITEMS TO BE DEMOLISHED	
	PIPING TO BE DEMOLISHED	
	AREA NOT IN CONTRACT	
	PIPE SIZE/SYSTEM TAG (DIAMETER)	
	ABOVE GROUND PIPING	
	PIPE SLOPE TAG (STEAM PIPING)	
	EXISTING PIPE TAG	
	SQUARE DUCT/SYSTEM TAG (WIDTH X HEIGHT)	
	OVAL DUCT/SYSTEM TAG (WIDTH / HEIGHT)	
	ROUND DUCT/SYSTEM TAG (DIAMETER)	
	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE	
	ROUND SUPPLY/OUTSIDE AIR DUCT RISE	
	RECTANGULAR RETURN/TRANSER AIR DUCT RISE	
	ROUND RETURN/TRANSER AIR DUCT RISE	
	RECTANGULAR EXHAUST DUCT AIR DUCT RISE	
	ROUND EXHAUST DUCT AIR DUCT RISE	
GRILLES, REGISTERS & DIFFUSERS TAG		
	AIR DEVICE	
	GAS PIPING	
	GLOBE VALVE	
	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
	BALANCE VALVE	
	CONTROL VALVE	
	MOTORIZED CONTROL VALVE	
	THREE WAY VALVE	
	THREE WAY CONTROL VALVE	
	THREE WAY MOTORIZED CONTROL VALVE	
	PRESSURE REGULATING VALVE	

EQUIPMENT	
1. EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY APPROVED BY OSHA.	
2. INSTALL EQUIPMENT WHILE MAINTAINING CLEARANCES AS RECOMMENDED BY MANUFACTURER AND REQUIRED BY APPLICABLE CODES AND STANDARDS.	
3. PROVIDE CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICABLE CODES AND STANDARDS. COORDINATE CONNECTION REQUIREMENTS FOR FINAL EQUIPMENT SELECTIONS WITH OTHER AFFECTED TRADES.	
4. VERIFY FINAL CONNECTION SIZES WITH OWNER PROVIDED EQUIPMENT AND PROVIDE REQUIRED ISOLATION VALVES, CHECK VALVES, UNIONS, GAUGES, AND SO FORTH FOR A COMPLETE INSTALLATION.	
5. PROVIDE ENGRAVED PLASTIC LAMINATE NAMEPLATES ON ALL NEW AND EXISTING EQUIPMENT. SURVEY BUILDING TO ENSURE THAT NAMES ARE UNIQUE AND CONSISTENT WITH EXISTING CONVENTIONS.	
CONTROL WIRING SPECIFICATIONS	
1. ELECTRICAL WIRING AND WIRING CONNECTIONS NEEDED FOR THE INSTALLATION OF MECHANICAL SYSTEMS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED.	
2. INSTALL CONTROL WIRING, WITHOUT SPLICES BETWEEN TERMINAL POINTS, COLOR CODED. INSTALL IN NEAT, WORKMANLIKE MANNER, SECURELY FASTENED. INSTALL IN ACCORDANCE WITH APPLICABLE NATIONAL ELECTRICAL CODE EDITION AND THE ELECTRICAL SPECIFICATIONS.	
3. INSTALL VOLTAGE CIRCUITS LOCATED IN CONCRETE SLAB AND MASONRY WALLS, OR EXPOSED IN OCCUPIED AREAS, IN ELECTRICAL CONDUIT. ALL WIRING IN AREAS NOT USED FOR AIR MOVEMENT SHALL BE IN ELECTRIC METALLIC TUBING EXCEPT LOW VOLTAGE WIRING MAY BE IN APPROVED SIGNAL CABLE WHERE APPROVED BY LOCAL CODES.	
GENERAL MECHANICAL NOTES	
1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES.	
2. ALL MATERIALS SHALL BE NEW, FIRST CLASS, AND INSTALLED TO MANUFACTURER'S WRITTEN SPECIFICATIONS.	
3. ALL SYSTEMS SHALL BE COMPLETE AND OPERABLE IN EVERY WAY.	
4. GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM FINAL ACCEPTANCE. PROVIDE FIVE YEAR AIR CONDITIONING COMPRESSOR WARRANTY.	
5. INSPECT JOB SITE PRIOR TO BIDDING TO DETERMINE EXACT JOB REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS.	
6. ARCHITECTURAL DRAWING DIMENSIONS SHALL GOVERN IN ALL CASES. COORDINATE ENGINEERING DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL EQUIPMENT LAYOUTS AND LOCATIONS.	
7. LAYOUTS AND ROUTINGS SHOWN ON THE PLANS ARE APPROXIMATE AND GENERAL IN NATURE.	
8. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL DRAWINGS AND ASPECTS OF THE PROJECT SCOPE, AND FOR INCLUDING IN HIS BID ALL WORK ASSOCIATED WITH HIS TRADE, REGARDLESS OF WHICH DRAWING OR SHEET IT IS SHOWN ON.	
9. COORDINATE WORK WITH ALL OTHER TRADES. EACH SUBCONTRACTOR SHALL REVIEW ENTIRE DRAWING SET AND AVOID CONFLICTS WITH OTHER TRADES.	
10. REPRESENTATIVES FROM APPLICABLE TRADES SHALL BE AVAILABLE FOR BAS, PLC, MECHANICAL VERIFICATION AND FIRE ALARM TESTING.	
11. REPRESENTATIVES FROM APPLICABLE TRADES SHALL ASSIST EQUIPMENT MANUFACTURERS WITH SET-UP, TESTING, AND CLEAN-UP ACTIVITIES.	
12. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR MORE INFORMATION.	
13. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEMS INDICATED.	
14. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.	
15. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATION SO THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.	
16. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS NECESSARY TO INSTALL ALL NEW MECHANICAL SYSTEMS WITHIN THE CONFINES OF THE SPACES AVAILABLE AND WITHOUT INTERFERENCES.	
17. PLANS ARE INTENDED TO INDICATE THE GENERAL SCOPE OF WORK. DETAILS OF INSTALLATION COVERED BY CODE AND OTHER MINOR ITEMS NOT SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND ACCEPTABLE INDUSTRY STANDARDS. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL SITE VERIFY EXISTING CONDITIONS.	
18. DURING CONSTRUCTION, ALL EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERINGS SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.	
19. PROVIDE ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NEEDED TO INSTALL MECHANICAL SYSTEMS. PATCHING WORK SHALL INCLUDE METHODS AND MATERIALS NEEDED FOR AFFECTED SURFACES TO MATCH ADJACENT AREAS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS WEATHER-TIGHT.	
20. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT ROOF WARRANTY WILL BE MAINTAINED. REFER TO PROJECT MANUAL APPENDIX FOR ROOF WARRANTY INFORMATION.	
21. FIELD SUPPORT ALL MECHANICAL SYSTEM EQUIPMENT AND MATERIALS FROM STRUCTURE.	
22. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.	
23. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATES OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUCTED AS LIMITING COMPETITION, ARTICLES, FIXTURES, ETC., OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.	
24. CONDENSATE DRAIN PIPING TO BE FIELD ROUTED TO NEAREST DRAIN RECEPTACLE. REFER TO PLUMBING SHEETS FOR WASTE/VENT PIPING AND LOCATIONS.	
25. THERMOSTATS SHALL BE INSTALLED AT +42" A.F.F. UNLESS NOTED OTHERWISE.	

ABBREVIATIONS			
Ø	DIAMETER	LAT	LEAVING AIR TEMPERATURE
A	AMP	LB	POUND
ABV	ABOVE	LBHR	POUNDS PER HOUR
AC	AIR CONDITIONING	LP	LOW PRESSURE
ACHR	AIR CHANGES PER HOUR	LVR	LOUVER
ADD	ADDENDUM	LWT	LEAVING WATER TEMPERATURE
AF	ABOVE FINISHED FLOOR	M/A	MIXED AIR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MAX	MAXIMUM
ALT	ALTERNATE	MBH	ONE THOUSAND BTU PER HOUR
AP	ACCESS PANEL	MCF	ONE THOUSAND CUBIC FEET
ARCH	ARCHITECT/ARCHITECTURAL	MD	MOTORIZED DAMPER
		MECH	MECHANICAL
BFF	BELOW FINISHED FLOOR	MFR	MANUFACTURER
BHP	BRAKE HORSE POWER	MIN	MINIMUM
BLW	BELOW	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNITS	MTD	MOUNTED
BTUH	BRITISH THERMAL UNITS PER HOUR	MTR	MOTOR
		MUA	MAKE-UP AIR
CAP	CAPACITY	NC	NOISE CRITERIA
CD	CEILING DIFFUSER	N.C.	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NUMBER
CONT	CONTINUED	N.O.	NORMALLY OPEN
		NTS	NOT TO SCALE
D	DEGREE		
DB	DRY BULB	O/A	OUTSIDE AIR
DIA	DIAMETER	OPER	OPERATOR
DIW	DOUBLE INLET DOUBLE WIDTH		
DN	DOWN	PD	PRESSURE DROP
DX	DIRECT EXPANSION	PRESS	PRESSURE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
DS	RETURN AIR DUCT SMOKE DETECTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
EA	EACH	PWR	POWER
E/A	EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE	R/A	RETURN AIR
EFF	EFFICIENCY	RCP	RADIANT CEILING PANEL
ELEC	ELECTRICAL	REC	RECESSED
EQUIP	EQUIPMENT	REV	REVISION
ER	EXHAUST REGISTER	RG	RETURN GRILLE
ESP	EXTERNAL STATIC PRESSURE	RH	RELATIVE HUMIDITY
EWT	ENTERING WATER TEMPERATURE	RL/A	RELIEF AIR
EXIST	EXISTING	RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
F	DEGREES FAHRENHEIT		
FC	FORWARD CURVED	S/A	SUPPLY AIR
FD	FIRE DAMPER	SF	SQUARE FOOT
FL	FLOOR	SD	SMOKE DAMPER
FPM	FEET PER MINUTE	SM	SURFACE MOUNT
FT	FOOT, FEET	SP	STATIC PRESSURE
FTHD	FEET OF HEAD	SPEC	SPECIFICATION
FTR	FIN TUBE RADIATION	SR	SUPPLY REGISTER
FTWG	FEET OF HEAD WATER GAUGE	STD	STANDARD
GA	GAUGE	T	THERMOSTAT
GAL	GALLON	T/A	TRANSFER AIR
GALV	GALVANIZED	TD	TEMPERATURE DROP
GC	GENERAL CONTRACTOR	TEMP	TEMPERATURE
GPM	GALLONS PER MINUTE	TYP	TYPICAL
HP	HORSE POWER	VAC	VACUUM
HT	HEIGHT	VAV	VARIABLE AIR VOLUME
HTG	HEATING	VENT	VENTILATION
HTR	HEATER	VFD	VARIABLE FREQUENCY DRIVE
HUM	HUMIDITY	V	VOLTAGE
HWS	HEATING WATER SUPPLY		
HWR	HEATING WATER RETURN	W/	WITH
HZ	HERTZ	W/O	WITHOUT
		WB	WET BULB
IN	INCH		
INWC	INCHES WATER COLUMN	ZD	ZONE DAMPER
KW	KILOWATT		
ABBREVIATIONS - CONTROLS			
AI	ANALOG INPUT	EC	ELECTRONICALLY COMMUTATED
AO	ANALOG OUTPUT	ENTH	ENTHALPY
AR	ANALOG REGISTER		
		FLA	FULL LOAD AMPS
BI	BINARY INPUT		
BO	BINARY OUTPUT	HR	HEATING WATER RETURN
		HS	HEATING WATER SUPPLY
CALC	CALCULATION	HW	HEATING WATER
CO2	CARBON DIOXIDE		
CRTL	CONTROL	P	PUMP
		PA	PRIMARY AIR
DA	DISCHARGE AIR	PH	PHASE
DDC	DIRECT DIGITAL CONTROL	PD	PROPORTIONAL-INTEGRAL-DERIVATIVE
DIFF	DIFFERENTIAL	POT	POTENTIOMETER
DO	DIGITAL OUTPUT	PPM	PARTS PER MILLION



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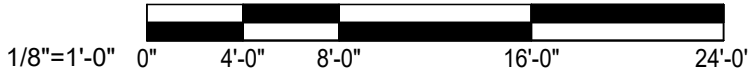
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MECHANICAL
NOTES,
SPECIFICATIONS,
AND LEGENDS

SHEET NUMBER:
M000
SHEET 4 OF 15
ISSUE DATE: 03/26/2026



GENERAL PLAN NOTES

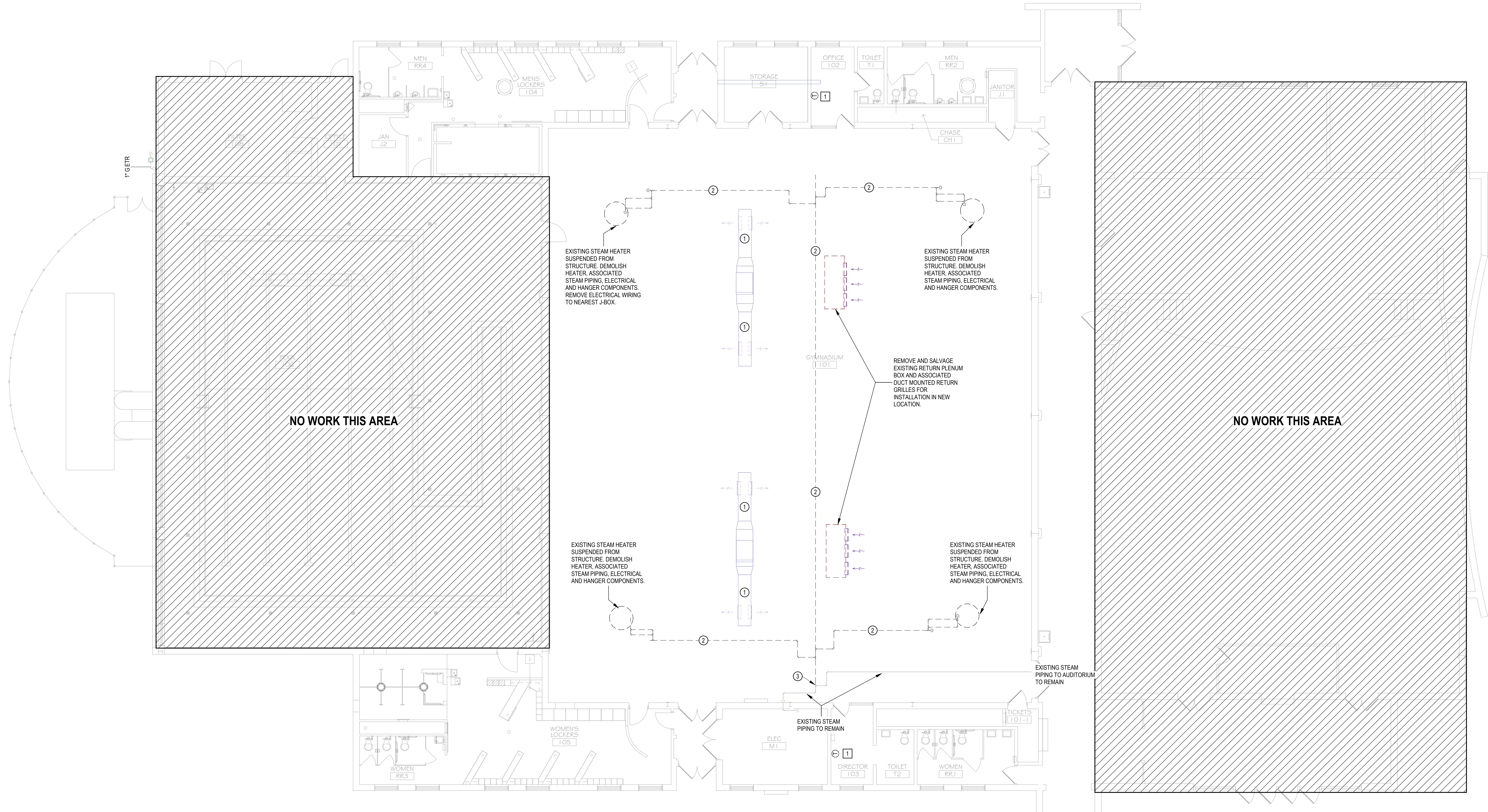
1. ALL EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK AND CONTROLS LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK, AND CONTROLS LOCATIONS SHOWN ARE AN APPROXIMATION BASED ON EXISTING RECORD DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO START OF WORK.
3. COORDINATE STEAM HEATING SYSTEM DOWNTIME WITH OWNER PRIOR TO START OF WORK. THE STEAM SYSTEM ALSO FEEDS THE AUDITORIUM AND WILL CONTINUE TO SERVE THE AUDITORIUM UPON COMPLETION OF THIS PROJECT.
4. REBALANCE EXISTING AIR DEVICES AS INDICATED FOR NEW RTU'S.

KEYED NOTES - BASE BID #

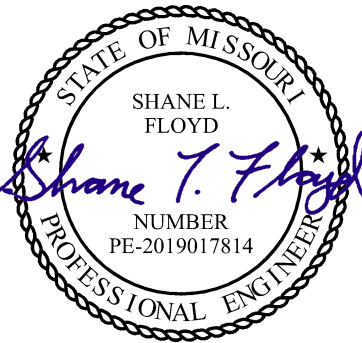
1. EXISTING 26" SPIRAL SUPPLY AIR DUCT AND ASSOCIATED AIR DEVICES TO REMAIN
2. DEMOLISH STEAM PIPING SHOWN DASHED
3. DEMOLISH STEAM PIPING SHOWN DASHED TO THIS LOCATION AND CAP AT THE TEE. COORDINATE WITH NEW WORK SCOPE SHEET M101.

KEYED NOTES - ALTERNATE BID #1 #

1. DEMOLISH THERMOSTAT WIRED TO RTU THAT SERVES THIS AREA.

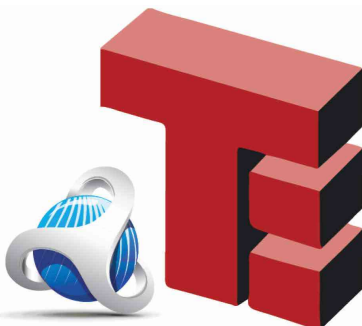


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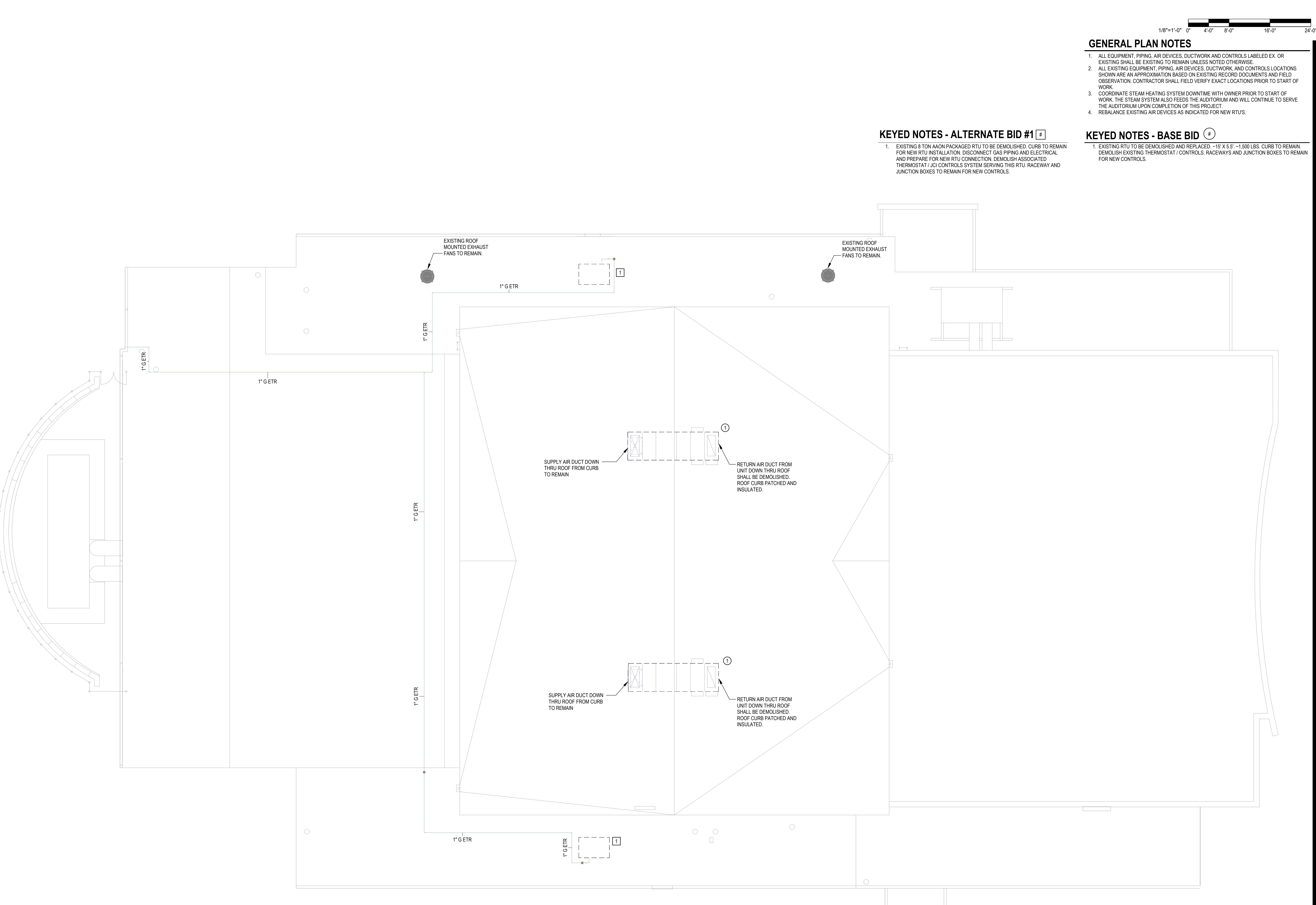
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SHEET TITLE:
DEMO
MECHANICAL
HVAC PLAN

SHEET NUMBER:
MD101
SHEET 5 OF 15
ISSUE DATE: 03/26/2026



1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

GENERAL PLAN NOTES

1. ALL EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK AND CONTROLS LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK, AND CONTROLS LOCATIONS SHOWN ARE AN APPROXIMATION BASED ON EXISTING RECORD DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO START OF WORK.
3. COORDINATE STEAM HEATING SYSTEM DOWNTIME WITH OWNER PRIOR TO START OF WORK. THE STEAM SYSTEM ALSO FEEDS THE AUDITORIUM AND WILL CONTINUE TO SERVE THE AUDITORIUM UPON COMPLETION OF THIS PROJECT.
4. REBALANCE EXISTING AIR DEVICES AS INDICATED FOR NEW RTU'S.

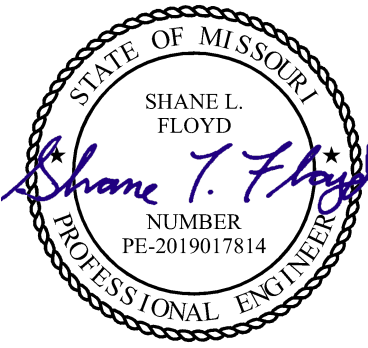
KEYED NOTES - BASE BID #

1. EXISTING RTU TO BE DEMOLISHED AND REPLACED. ~15' X 5.5' ~1,500 LBS. CURB TO REMAIN. DEMOLISH EXISTING THERMOSTAT / CONTROLS. RACEWAYS AND JUNCTION BOXES TO REMAIN FOR NEW CONTROLS.

KEYED NOTES - ALTERNATE BID #1 #

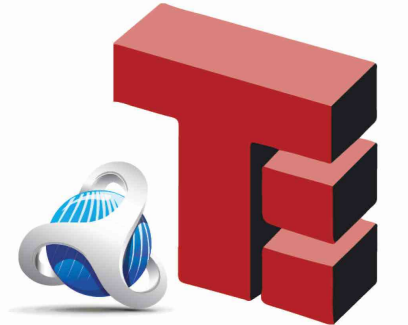
1. EXISTING 8 TON AAO PACKAGED RTU TO BE DEMOLISHED. CURB TO REMAIN FOR NEW RTU INSTALLATION. DISCONNECT GAS PIPING AND ELECTRICAL AND PREPARE FOR NEW RTU CONNECTION. DEMOLISH ASSOCIATED THERMOSTAT / JCI CONTROLS SYSTEM SERVING THIS RTU. RACEWAY AND JUNCTION BOXES TO REMAIN FOR NEW CONTROLS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Shane Floyd, P.E.
PE-2019017814
MO Certificate of Authority #000239

03/26/2026



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Replace Steam Heating Units
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Fulton, MO 65251

505 E. 5th Street
Fulton, MO 65251

PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

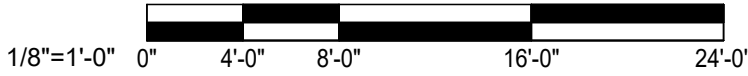
REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
DEMO
MECHANICAL
ROOF PLAN

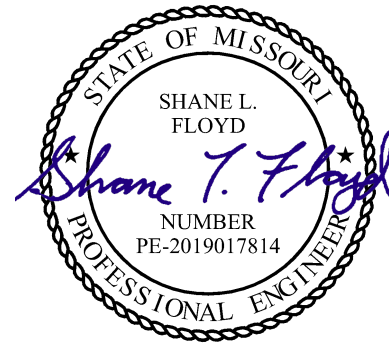
SHEET NUMBER:
MD102
SHEET 6 OF 15
ISSUE DATE: 03/26/2026



GENERAL PLAN NOTES

- 1. ALL EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK AND CONTROLS LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- 2. ALL EXISTING EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK, AND CONTROLS LOCATIONS SHOWN ARE AN APPROXIMATION BASED ON EXISTING RECORD DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO START OF WORK.
- 3. COORDINATE STEAM HEATING SYSTEM DOWNTIME WITH OWNER PRIOR TO START OF WORK. THE STEAM SYSTEM ALSO FEEDS THE AUDITORIUM AND WILL CONTINUE TO SERVE THE AUDITORIUM UPON COMPLETION OF THIS PROJECT.
- 4. REBALANCE EXISTING AIR DEVICES AS INDICATED FOR NEW RTU'S.

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SITE # 2001
ASSET # 5012001009

REVISION	DATE

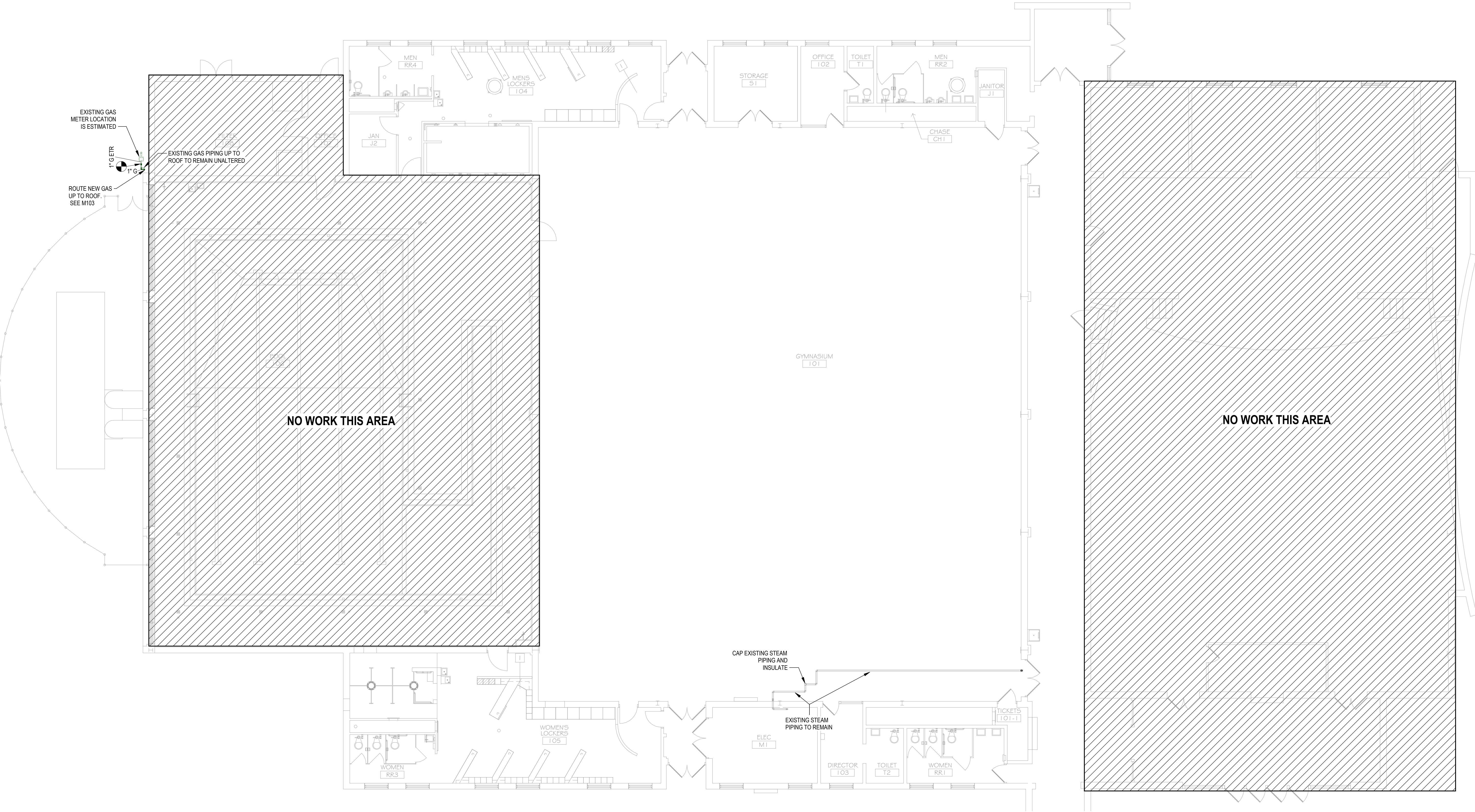
ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
MECHANICAL
PIPING PLAN

SHEET NUMBER:

M101
SHEET 7 OF 15
ISSUE DATE: 03/26/2026



1/8"=1'-0" 0" 4'-0" 8'-0" 16'-0" 24'-0"

GENERAL PLAN NOTES

1. ALL EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK AND CONTROLS LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING EQUIPMENT, PIPING, AIR DEVICES, DUCTWORK, AND CONTROLS LOCATIONS SHOWN ARE AN APPROXIMATION BASED ON EXISTING RECORD DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO START OF WORK.
3. COORDINATE STEAM HEATING SYSTEM DOWNTIME WITH OWNER PRIOR TO START OF WORK. THE STEAM SYSTEM ALSO FEEDS THE AUDITORIUM AND WILL CONTINUE TO SERVE THE AUDITORIUM UPON COMPLETION OF THIS PROJECT.
4. REBALANCE EXISTING AIR DEVICES AS INDICATED FOR NEW RTU'S.

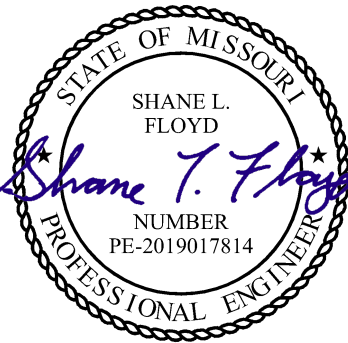
KEYED NOTES - BASE BID #

1. EXISING 26" SPIRAL SUPPLY AIR DUCT AND ASSOCIATED AIR DEVICES TO REMAIN
2. INSTALL WALL PLATE TEMPERATURE SENSOR. ALL CONTROLS SHALL BE ON THE BAS SYSTEM. TEMPERATURE SENSOR PROVIDED BY HVAC CONTROLS CONTRACTOR (C&C GROUP).

KEYED NOTES - ALTERNATE BID #1 #

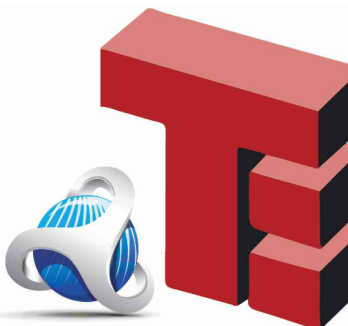
1. INSTALL NEW THERMOSTAT PROVIDED BY HVAC CONTROLS CONTRACTOR (C&C GROUP). INSTALLED AT LOCATION OF DEMOD THERMOSTAT
2. INSULATE EXISTING SINGLE WALL SPIRAL DUCT THIS ROOM WITH NEW 1.5" THICK INSULATION

STATE OF MISSOURI
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PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
**MECHANICAL
HVAC PLAN**

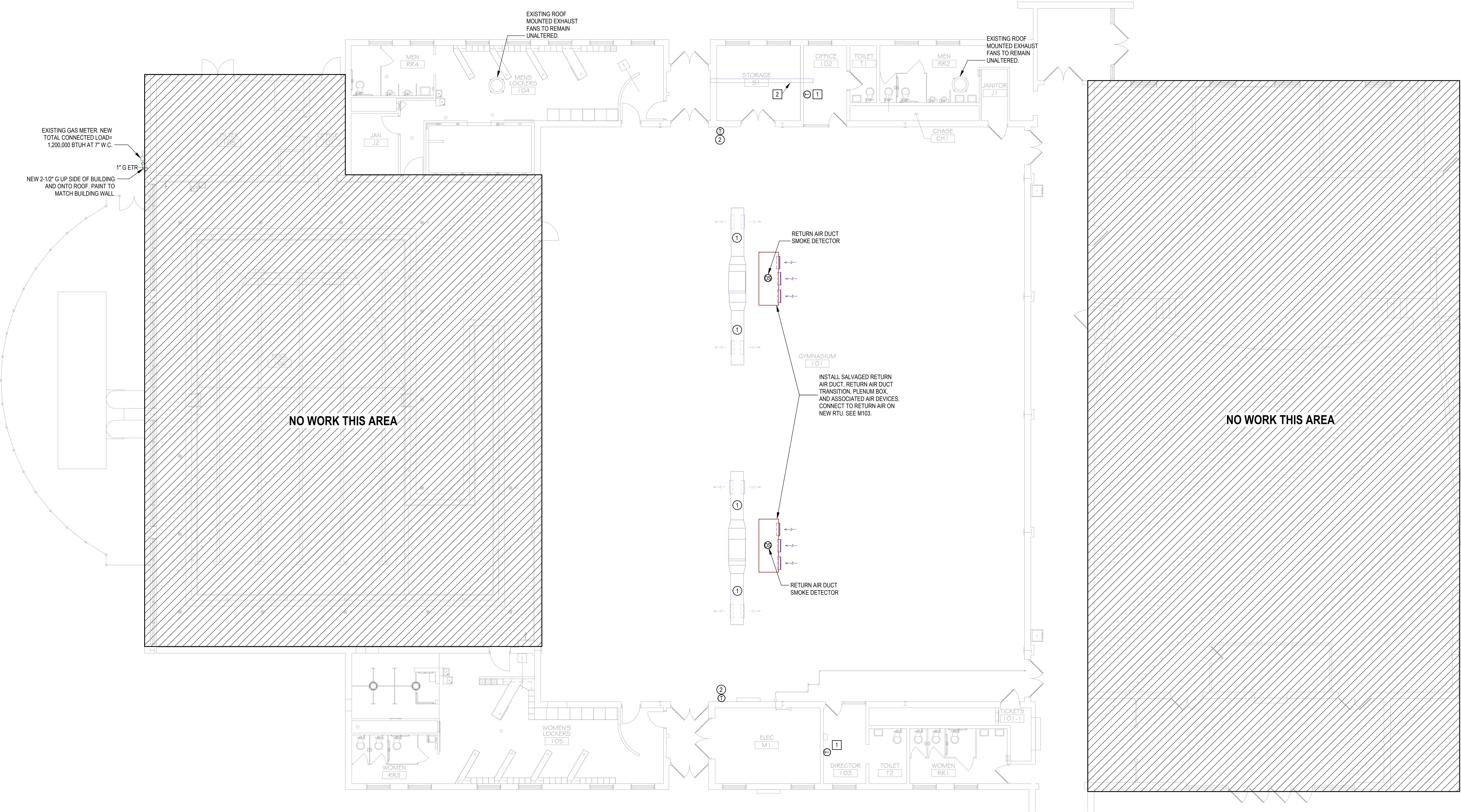
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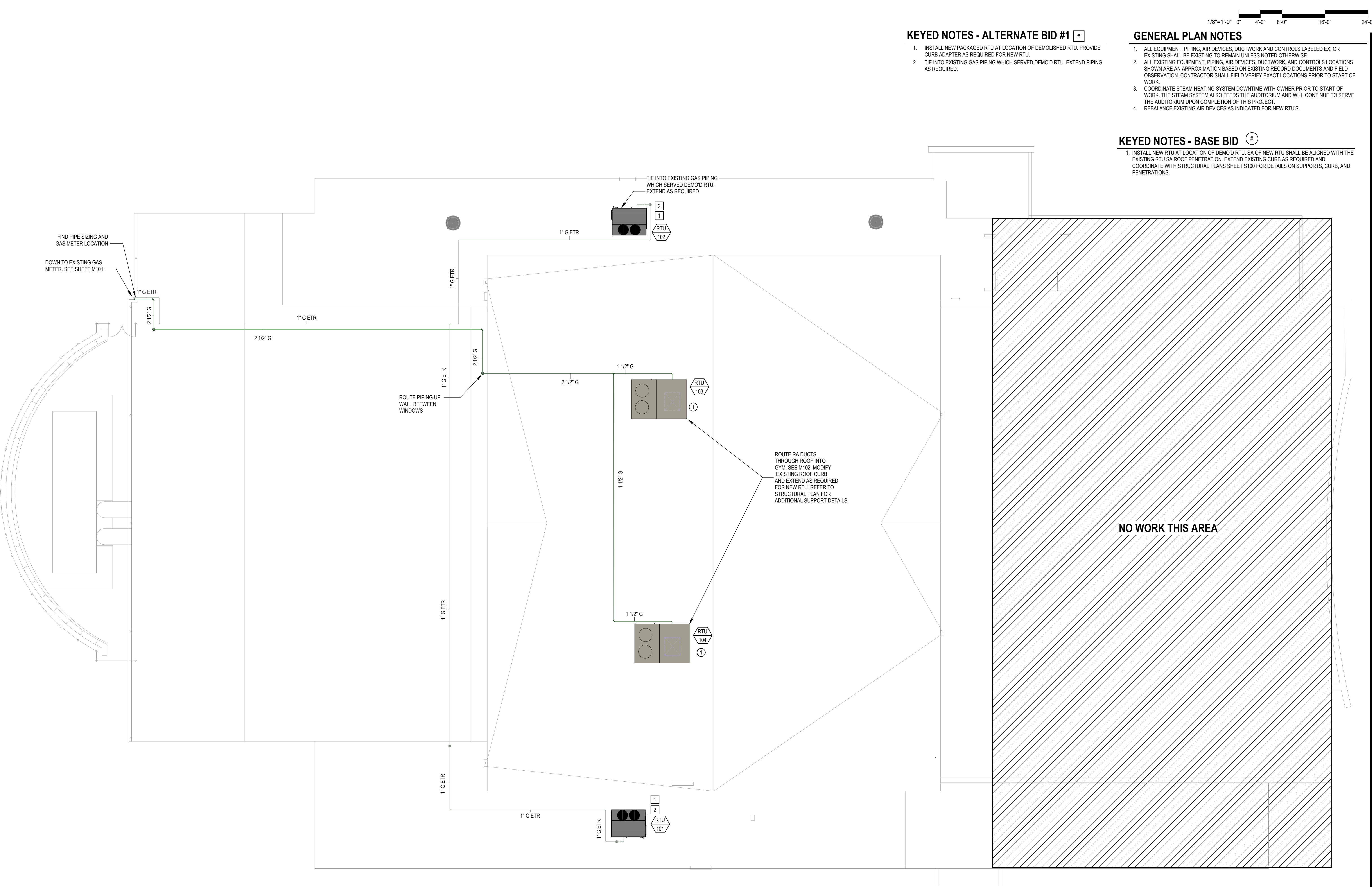
M102

SHEET 8 OF 15
ISSUE DATE: 03/26/2026

1 MECHANICAL HVAC PLAN

M102 1/8" = 1'-0"





KEYED NOTES - ALTERNATE BID #1

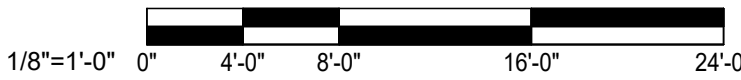
1. INSTALL NEW PACKAGED RTU AT LOCATION OF DEMOLISHED RTU. PROVIDE CURB ADAPTER AS REQUIRED FOR NEW RTU.
2. TIE INTO EXISTING GAS PIPING WHICH SERVED DEMO'D RTU. EXTEND PIPING AS REQUIRED.

GENERAL PLAN NOTES

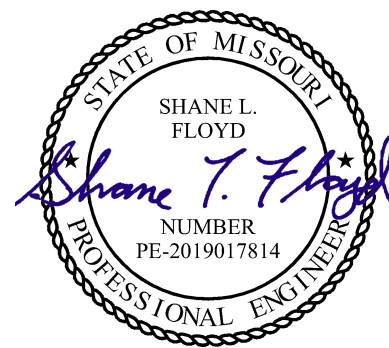
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4. REBALANCE EXISTING AIR DEVICES AS INDICATED FOR NEW RTU'S.

KEYED NOTES - BASE BID

1. INSTALL NEW RTU AT LOCATION OF DEMO'D RTU. SA OF NEW RTU SHALL BE ALIGNED WITH THE EXISTING RTU SA ROOF PENETRATION. EXTEND EXISTING CURB AS REQUIRED AND COORDINATE WITH STRUCTURAL PLANS SHEET S100 FOR DETAILS ON SUPPORTS, CURB, AND PENETRATIONS.



STATE OF MISSOURI
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PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

REVISION	DATE

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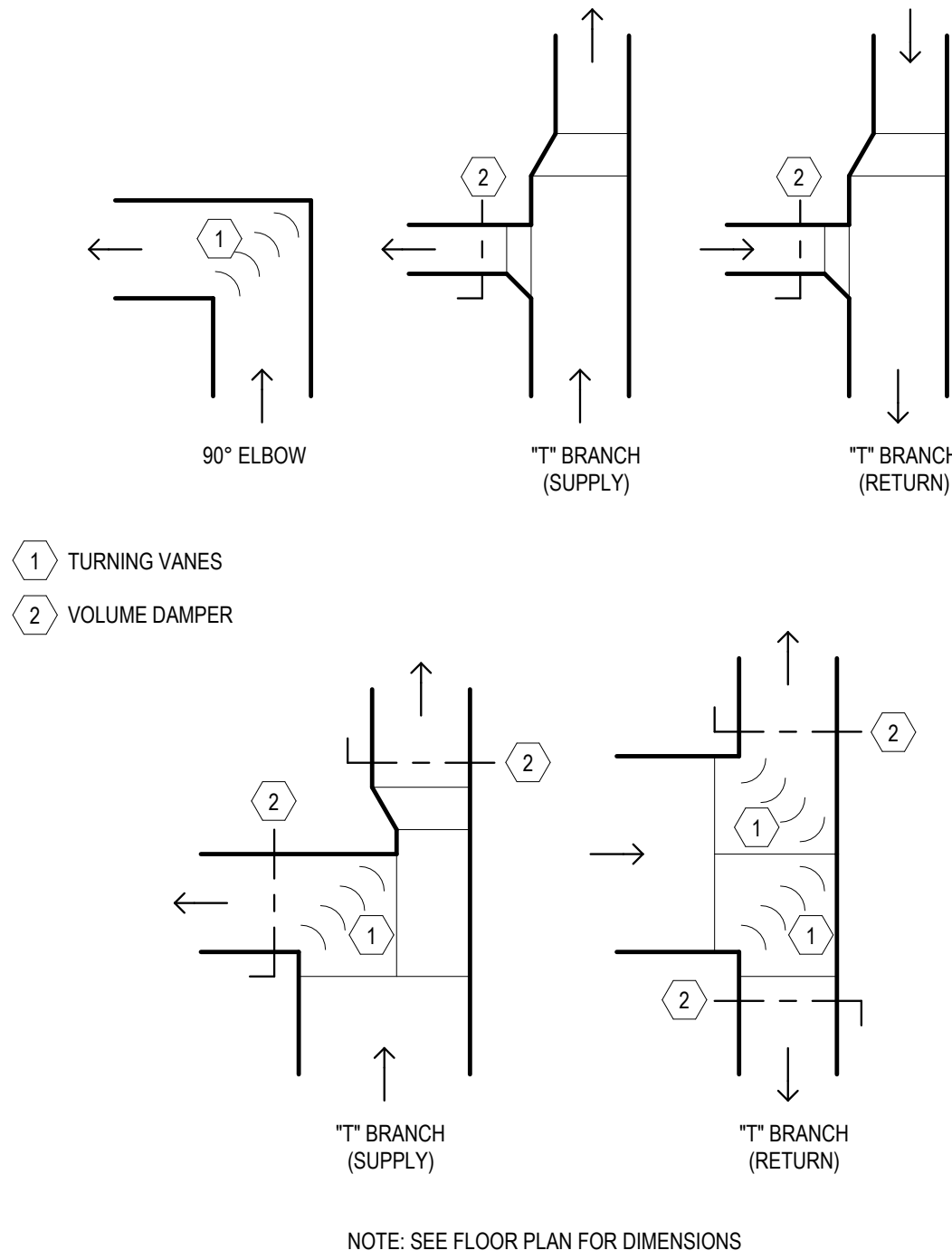
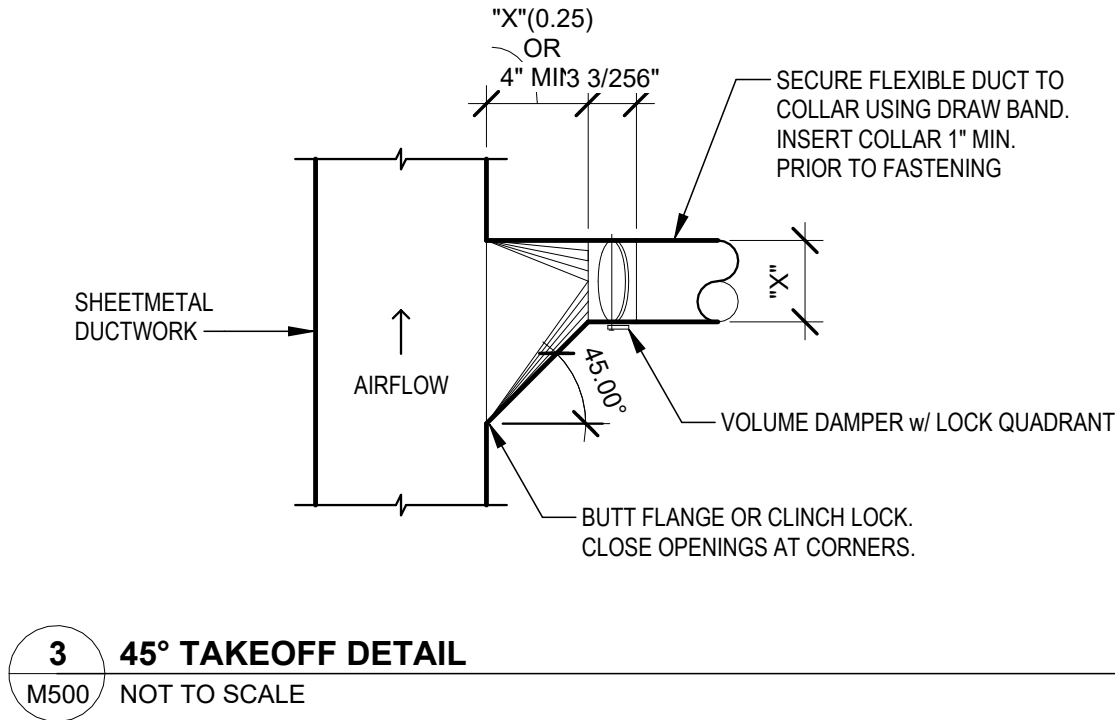
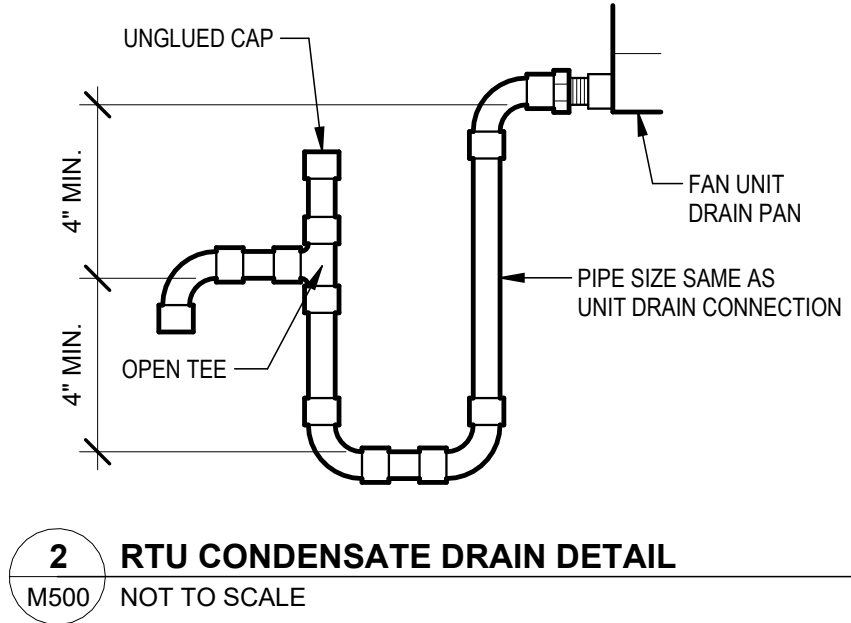
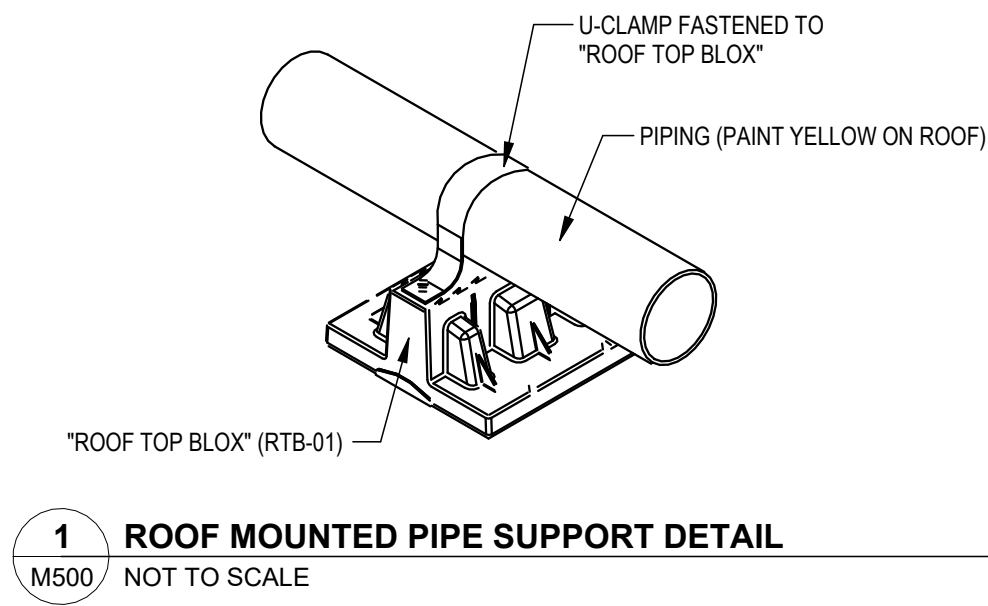
CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
MECHANICAL
ROOF PLAN

SHEET NUMBER:

M103

SHEET 9 OF 15
ISSUE DATE: 03/26/2026



STATE OF MISSOURI
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ISSUE DATE: 05/27/2026

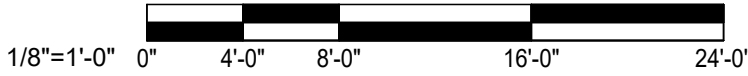
CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
**MECHANICAL
DETAILS**

SHEET NUMBER:

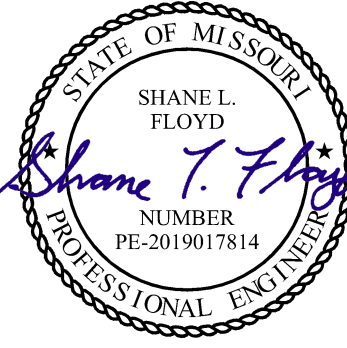
M500

SHEET 10 OF 15
ISSUE DATE: 03/26/2026



PACKAGED EQUIPMENT SCHEDULE (RTU)																																							
MARK	MANUFACTURER	MODEL	AREA SERVED	SUPPLY				DX COOLING										NATURAL GAS HEATING							FILTER	OUTDOOR AIR		ELECTRICAL			OPERATING WEIGHT (LBS.)	NOTES							
				AIRFLOW (CFM)	EXT. S.P. (IN-WG)	MOTOR (HP)	MOTOR QUANTITY	NOMINAL TONS	TOTAL (MBH)	SENSIBLE (MBH)	AIR TEMP. (°F DB/WB)		EFFICIENCY EER	COMPRESSOR			AMBIENT (°F)	INPUT (MBH)	OUTPUT (MBH)	STAGES	AIR TEMP. (°F DB/WB)		AMBIENT TEMP. (°F)	DESIGN AIRFLOW (CFM)		MIN. AIRFLOW (CFM)	VOLTAGE / PHASE	MCA (AMPS)	MOCP (AMPS)	DIMENSIONS (FT)									
											ENT.	LVG.		STAGES	QTY	REFRIGERANT					ENT.	LVG.																	
RTU-101	TRANE	YSK090A3S0H	WOMENS LOCKER	3000	1.00	3	1	7.5	92.69	71.75	79	58.43	11.00	3	2	R-454B	95	200	162	2	56	105.45	0	2" MERV 8	530	10.6	208/3	49	60	4.24 X 4.44 X 7.34	1240	1,2,3,4,5,6,7,8,9, 10							
RTU-102	TRANE	YSK090A3S0H	MENS LOCKER	2625	1.00	3	1	7.5	91.63	67.07	79.6	57.56	11.00	3	2	R-454B	95	200	162	2	53.9	110.3	0	2" MERV 8	600	33.5	208/3	49	60	4.24 X 4.44 X 7.34	1240	1,2,3,4,5,6,7,8,9, 10							
RTU-103	TRANE	YSK240A3S0M	GYM	6000	1.00	3	2	20	236.77	165.89	80.4	56.71	9.80	4	2	R-454B	95	400	324	2	51.1	100.29	0	2" MERV 8	1317	741	120/3	114	150	4.92 X 7.25 X 10.25	2759	1,2,3,4,5,6,7,8,9							
RTU-104	TRANE	YSK240A3S0M	GYM	6000	1.00	3	2	20	236.77	165.89	80.4	56.71	9.80	4	2	R-454B	95	400	324	2	51.1	100.29	0	2" MERV 8	1317	741	120/3	114	150	4.92 X 7.25 X 10.25	2759	1,2,3,4,5,6,7,8,9							
NOTES: 1. PROVIDE WITH BACNET IP CARD AND CAPABILITIES 2. THERMOSTAT SHALL BE PROVIDED BY BAS CONTRACTOR (C&C GROUP, BRIAN SCHEPERS: (573) 291-5425, bschepers@c-cgroup.com). 3. FACTORY MOUNTED DISCONNECT, SS OR RESIN-BASED DRAIN PAN, HAIL GUARDS 4. ECONOMIZER WITH SINGLE DRY BULB CONTROL, SET TO ENABLE ECONOMIZER AT 65 DEG OAT, AND BAROMETRIC RELIEF SIZED AT 100% OF SUPPLY FLOW. 5. RETURN DUCT SMOKE DETECTOR WIRE TO FAN STARTER TO SHUT UNIT DOWN AND SEND ALARM SIGNAL TO FIRE ALARM SYSTEM (IF PRESENT) AND BAS SYSTEM. 6. WITH HOT-GAS REHEAT COIL / DEHUMIDIFICATION OPTION 7. IECG 2018 COMPLIANT, WITH ECONOMIZER FAULT DETECTION AND NOTIFICATION. 8. WITH FACTORY 14" CURB 9. PROVIDE WITH GFCI PROTECTED CONVENIENCE RECEPTACLE, WIRED THRU WEATHERPROOF ROOF RECEPTACLE CIRCUIT AS SHOWN ON PLAN. 10. ALTERNATE BID #1																														* OPERATING WEIGHT INCLUDES ALL ACCESSORIES, EQUIPMENT AND CURB, IF PROVIDED.									

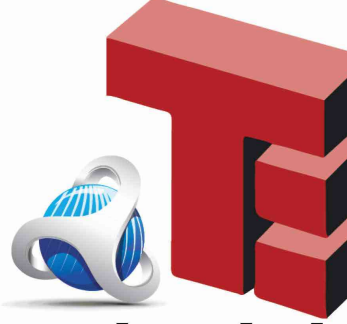
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Shane L. Floyd
NUMBER
PE-2019017814
PROFESSIONAL ENGINEER

Shane Floyd, P.E.
PE-2019017814
MO Certificate of Authority #000239

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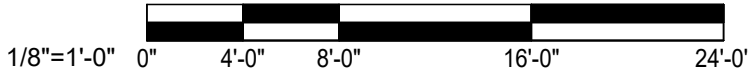
REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: CKT
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
MECHANICAL
SCHEDULES

SHEET NUMBER:
M600
SHEET 11 OF 15
ISSUE DATE: 03/26/2026

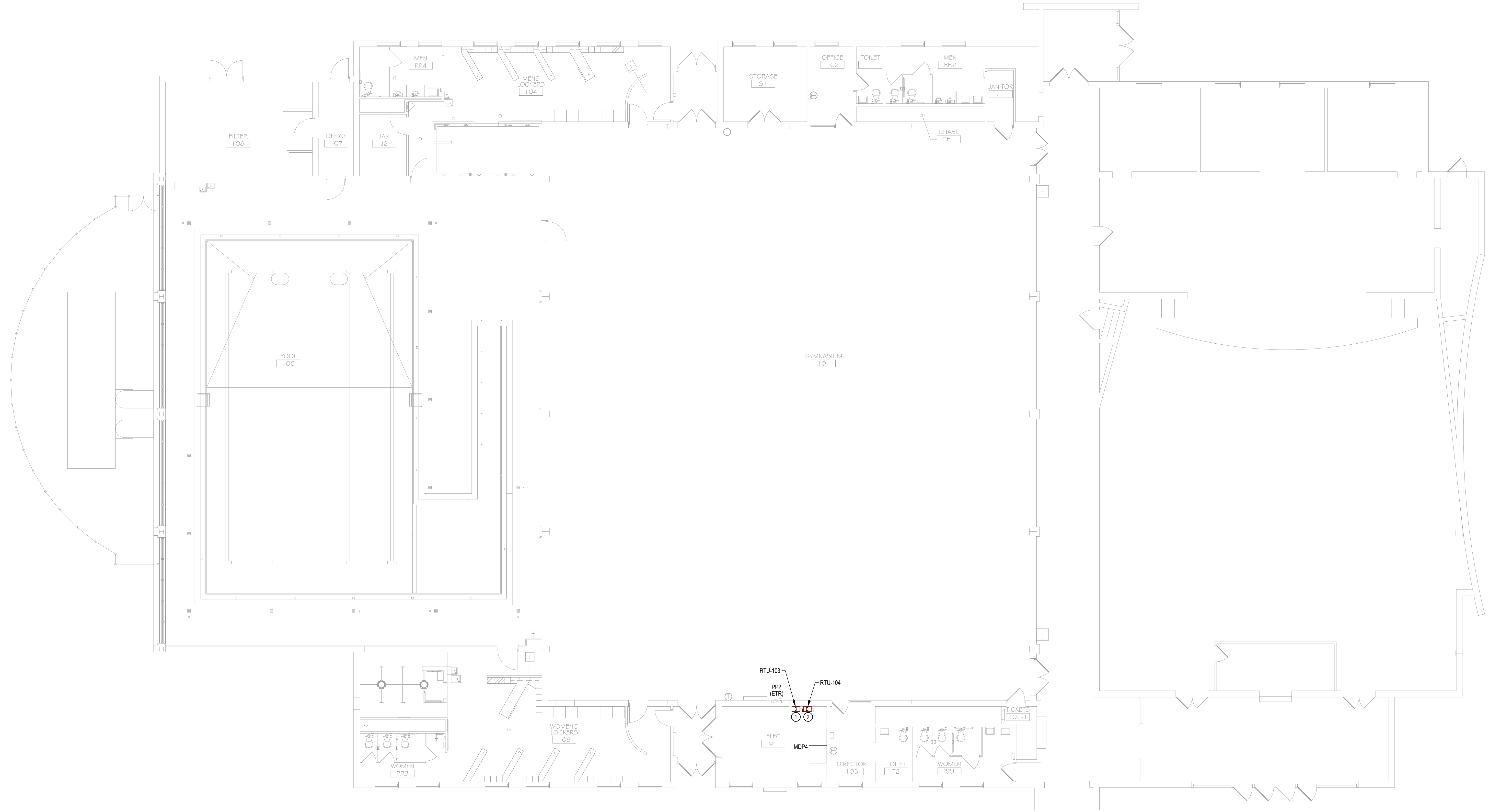


KEYED NOTES - BASE BID #

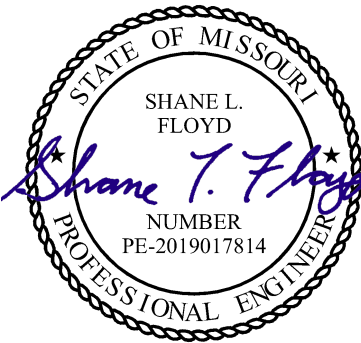
1. 208V 3-PHASE 150A 3 POLE DISCONNECT SERVING RTU-103. SEE POWER RISER SHEET E500 FOR DETAILS.
2. 208V 3-PHASE 150A 3 POLE DISCONNECT SERVING RTU-104. SEE POWER RISER SHEET E500 FOR DETAILS.

GENERAL PLAN NOTES

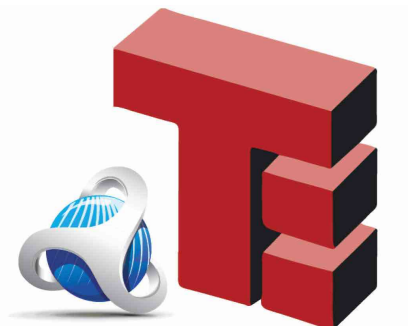
1. REFER TO ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES ON SHEET E000.
2. FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
3. ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
4. ALL PIPING CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
5. ALL EQUIPMENT, GEAR, DEVICES, CONDUITS LABELED EX. OR EXISTING SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
6. ALL EXISTING EQUIPMENT, GEAR, DEVICES, CONDUITS SHOWN ARE AN APPROXIMATION BASED ON EXISTING RECORD DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR HSALL FIELD VERIFY EXACT LOCATIONS PRIOR TO START OF WORK.



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PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: NCC
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
**ELECTRICAL
POWER PLAN**

SHEET NUMBER:

E100

SHEET 13 OF 15
ISSUE DATE: 03/26/2026

KEYED NOTES - ALTERNATE BID #1

1. NEW RTU AT LOCATION OF DEMO'D RTU. POWER THRU EXISTING CIRCUIT PREVIOUSLY SERVING DEMO'D RTU THIS LOCATION.
2. UNPOWERED FACTORY MOUNTED WP GFCI RECEPTACLE. WIRE THRU CONVENIENCE RECEPTACLE CIRCUIT, AS INDICATED.

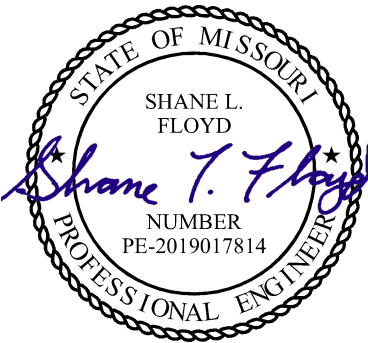
KEYED NOTES - BASE BID

1. INSTALL NEW RTU AT LOCATION OF DEMO'D RTU. POWER THRU DISCONNECT LOCATED IN 'ELEC-M1'.
2. UNPOWERED FACTORY MOUNTED WP GFCI RECEPTACLE. WIRE THRU CONVENIENCE RECEPTACLE CIRCUIT, AS INDICATED.

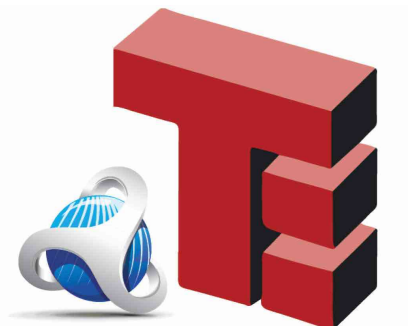
GENERAL PLAN NOTES

1. REFER TO ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES ON SHEET E000.
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PROJECT # E2508-01
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ASSET # 5012001009

REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: NCC
CHECKED BY: SLF
DESIGNED BY: SLF

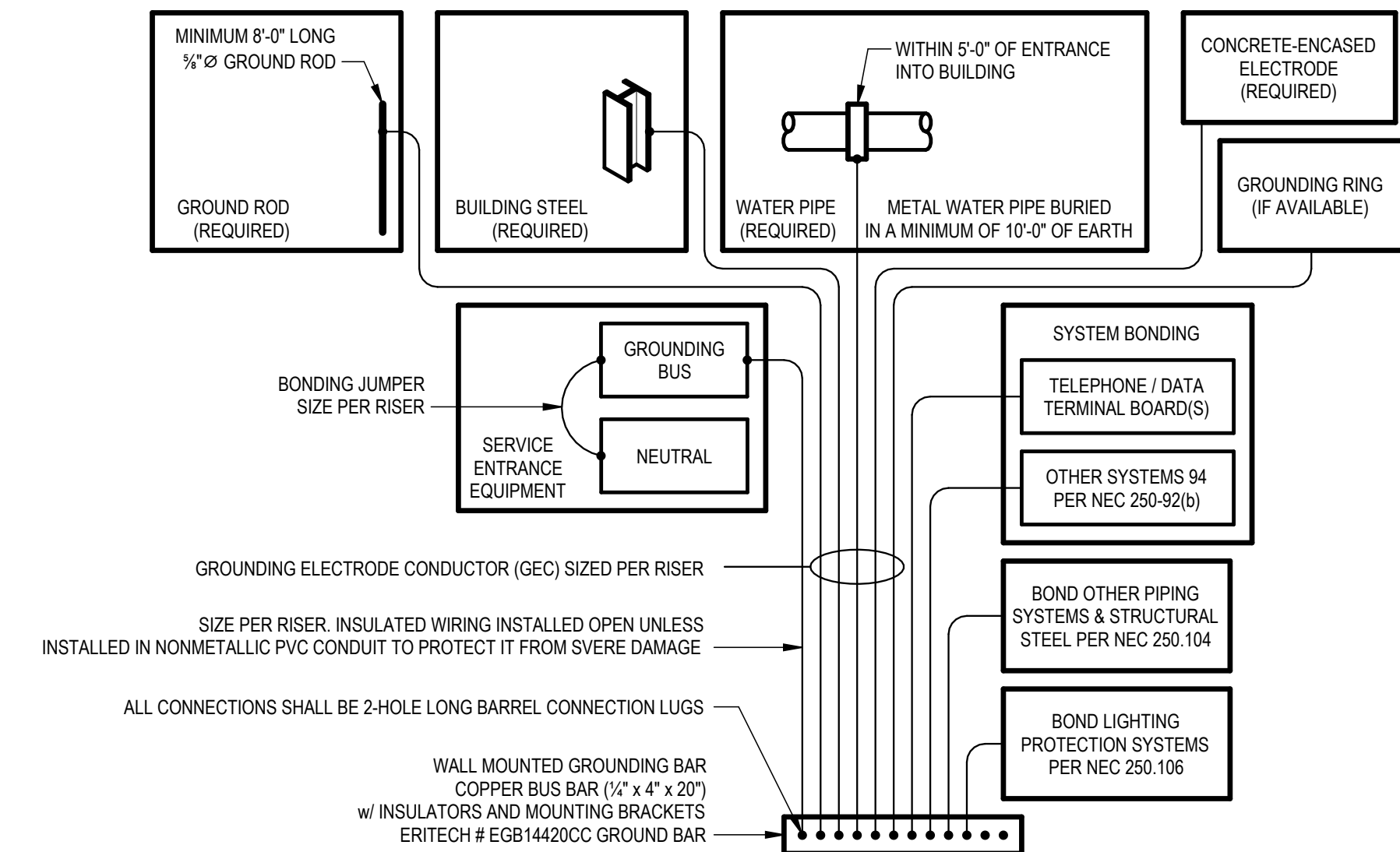
SHEET TITLE:
**ROOF POWER
PLAN**

SHEET NUMBER:

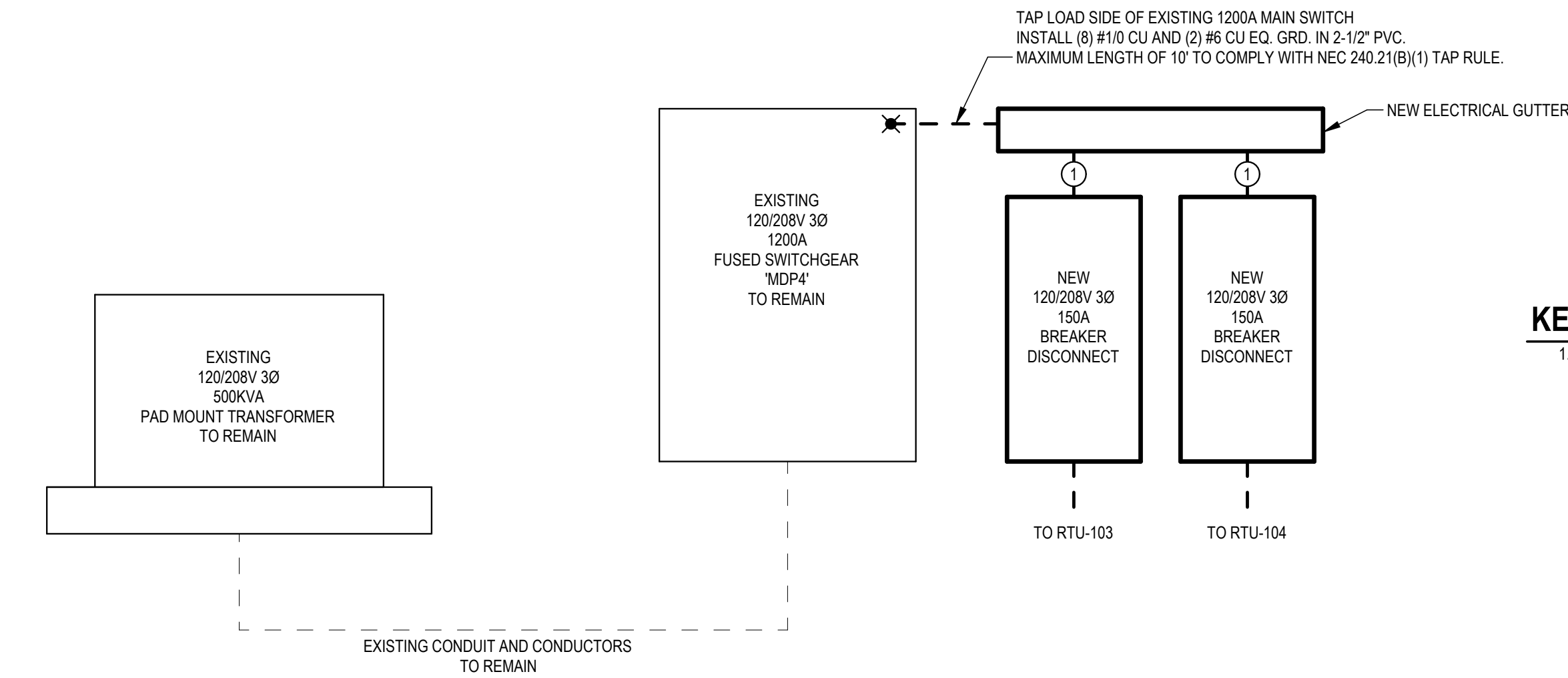
E101

SHEET 14 OF 15
ISSUE DATE: 03/26/2026





1 POWER GROUNDING & BONDING DETAIL
E500 NOT TO SCALE



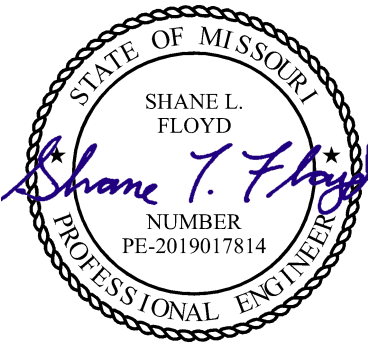
4 POWER RISER
E500 NOT TO SCALE

KEYED NOTES

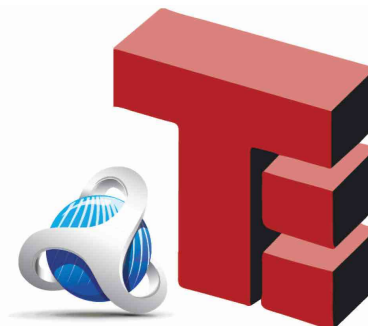
1. 2" PVC CONDUIT WITH (4) #1/0 CU AND #6 CU EQ. GRD.

EXISTING...		LOCATION: GYM		VOLTS: 120/208 SINGLE		A.I.C. RATING:			
PP2		SUPPLY FROM:		PHASES: 1		MAINS TYPE:			
		MOUNTING:		WIRES: 3		RATING: 200 A			
		ENCLOSURE:		MODEL:					
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	GYM LIGHTS (SOUTH)	20 A	1	0 A	0 A		1	MECH ROOM LIGHTS	2
3	GYM LIGHTS (SOUTH)	20 A	1			0 A	0 A	REC WEST WALL	4
5	GYM LIGHTS (SOUTH)	20 A	1	0 A	0 A		1	LIGHTS W. OFFICE	6
7	GYM LIGHTS (SOUTH)	20 A	1			0 A	0 A	LIGHTS GIRLS DRESSING ROOM	8
9	GYM LIGHTS (SOUTH)	20 A	1	0 A	0 A		1	NORTH HEATER	10
11	GYM LIGHTS (SOUTH)	20 A	1			0 A	0 A	SOUTH HEATER	12
13	GYM LIGHTS (CENTER)	20 A	1	0 A	0 A		1	EXT FAN TICKET BOOTH	14
15	GYM LIGHTS (CENTER)	20 A	1			0 A	0 A	EXT FAN (GIRLS)	16
17	GYM LIGHTS (CENTER)	20 A	1	0 A	0 A		1	HAND DRYER	18
19	GYM LIGHTS (CENTER)	20 A	1			0 A	0 A	HAND DRYER	20
21	GYM LIGHTS (CENTER)	20 A	1	0 A	0 A		1	EMERGENCY LIGHTS	22
23	GYM LIGHTS (CENTER)	20 A	1			0 A	0 A	WEST SCOREBOARD	24
25	GYM LIGHTS (NORTH)	20 A	1	0 A	0 A		1	EAST SCOREBOARD	26
27	GYM LIGHTS (NORTH)	20 A	1			0 A	6 A	RCPT	28
29	GYM LIGHTS (NORTH)	20 A	1	0 A					30
31	GYM LIGHTS (NORTH)	20 A	1			0 A			32
33	GYM LIGHTS (NORTH)	20 A	1	0 A					34
35	GYM LIGHTS (NORTH)	20 A	1			0 A			36
37									38
39									40
41									42
TOTAL CONNECTED LOAD (AMPS):		0		6 A					
TOTAL CONNECTED LOAD (VA):		0		720					
CALCULATED DEMAND:		3.5 A		0.72 KVA					
NOTES: ELECTRICIAN TO VERIFY ALL EQUIPMENT POWER REQUIREMENTS. BOLD INDICATES NEW BREAKER									

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



Shane Floyd, P.E.
PE-2019017814
MO Certificate of Authority #000239
03/26/2026



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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

Replace Steam Heating Units
Missouri School For The Deaf
Fulton, MO 65251

505 E. 5th Street
Fulton, MO 65251

PROJECT # E2508-01
SITE # 2001
ASSET # 5012001009

REVISION	DATE

ISSUE DATE: 05/27/2026

CAD DWG FILE: E2508-01
DRAWN BY: NCC
CHECKED BY: SLF
DESIGNED BY: SLF

SHEET TITLE:
**ELECTRICAL
SCHEDULES &
DETAILS**

SHEET NUMBER:
E500
SHEET 15 OF 15
ISSUE DATE: 03/26/2026