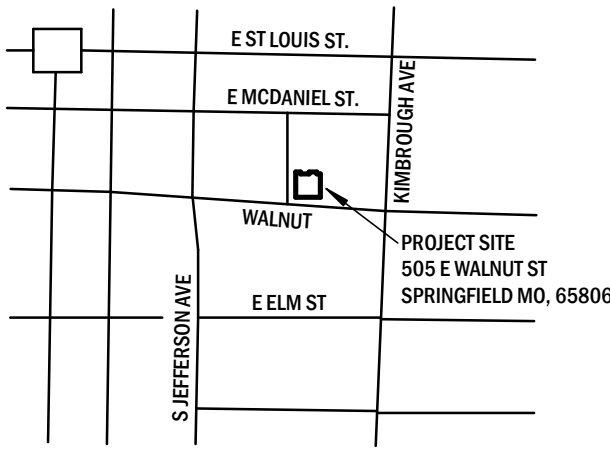


Upgrade/Relocate Rooftop Units Springfield DOLIR Office Building Springfield, Missouri



OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



SITE MAP

DESIGNER: Interpres Building solutions
1201 S Campbell Ave
Springfield, MO 65807

PROJECT NUMBER: O2516-01

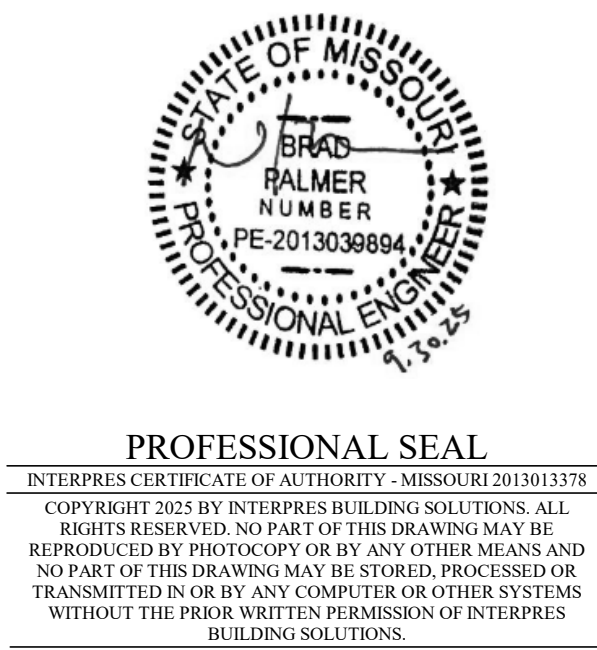
**PROJECT
MANAGEMENT:** OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT
DESIGN AND CONSTRUCTION

SITE NUMBER: 1032
FACILITY NUMBER: 3101032001

SHEET NUMBER:

CVR

1 OF 11 SHEETS
9/30/2025



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT
DESIGN AND CONSTRUCTION

UPGRADE/RELOCATE
ROOFTOP UNITS

SPRINGFIELD DOLIR
OFFICE BUILDING

SPRINGFIELD, MO

PROJECT# 02516-01
SITE # 1032
FACILITY # 3101032001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: MEP100
DRAWN BY: BRP
CHECKED BY: BRP
DESIGNED BY: BRP

SHEET TITLE:
SCHEDULE OF
MANUFACTURERS

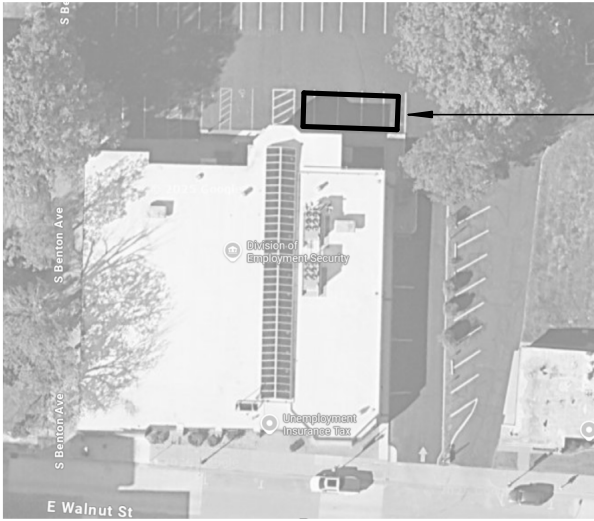
SHEET NUMBER:

MEP100
2 OF 10 SHEETS
9/30/2025

SCHEDULE OF MANUFACTURERS																							
DIVISION 22 - PLUMBING				DIVISION 23 - MECHANICAL				DIVISION 26 - ELECTRICAL															
220529		HANGERS SUPPORTS AND VIBRATION ISOLATION FOR PLUMBING PIPING AND EQUIPMENT		230519		METERS AND GAUGES		232113		HVAC PIPING AND SPECIALTIES		233216		CONDENSING BOILERS		260519		CONDUCTORS AND CABLES		262416		PANELBOARDS	
		HANGERS AND SUPPORTS				HANGERS AND SUPPORTS				HANGERS AND SUPPORTS				AIR COOLED CONDENSERS								PANELBOARDS	
1. ANVIL 2. B LINE SYSTEMS 3. GRINNELL 4. TOLCO 5. UNISTRUT		1. CHARLOTTE PIPE 2. IPFX 3. KBI 4. NIBCO 5. SIOUX CHEF		230523		VALVES FOR MECHANICAL PIPING		1. ANVIL 2. B LINE SYSTEMS 3. GRINNELL 4. TOLCO 5. UNISTRUT		1. CALPUJO 2. CAPITOL MANUFACTURING 3. CENTRAL PLASTICS 4. HART INDUSTRIES 5. LOCKHART 6. PERFECTION 7. PIPELINE SEAL AND INSULATOR 8. SIOUX CHEF 9. WATTS VICTALUC 10. ZURN		1. AMON 2. ADDISON 3. TSI 4. TRANE				260533		RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS		1. EATON ELECTRIC 2. GENERAL ELECTRIC 3. SIEMENS 4. SQUARE D			
ROOF EQUIPMENT RAILS		1. CALPUJO 2. CAPITOL MANUFACTURING 3. CENTRAL PLASTICS 4. HART INDUSTRIES 5. LOCKHART 6. PERFECTION 7. PIPELINE SEAL AND INSULATOR 8. SIOUX CHEF 9. WATTS VICTALUC 10. ZURN		1. ARVOLD 2. CENTERLINE 3. CRANE 4. HAMMOND 5. KENNEDY 6. KRISTINE 7. NIBCO 8. NIDUS 9. POWELL 10. VICTALUC 11. WATTS		BALANCE AND FLOW CONTROL VALVES		1. ERICO 2. MIRO INDUSTRIES 3. MICHIGAN HANGER CO		1. AMTROL 2. ARMSTRONG PUMPS 3. BELL AND GOSSETT 4. TACO 5. SPIROTHERM		EXPANSION TANK				NON METALLIC CONDUIT		1. APC CABLE 2. ALPFX 3. ALLED TUBE AND CONDUIT 4. ANNET ELECTRICAL 5. CROUSE WINDS 6. ELECTIFLEX 7. MANHATTAN/CO/COLE FLX 8. MINVEROCK TUBE CORP 9. O 2 GENEY 10. WHEATLAND TUBE CO					
PIPE STANDS		1. ERICO 2. MIRO INDUSTRIES 3. MICHIGAN HANGER CO		1. BELL AND GOSSETT 2. FLOW DESIGN 3. FLOWSET 4. WATTS 5. ILLINOIS 6. KOPFUND 7. PASSENT 8. SIEMENS 9. TACO 10. THURSH		SWING AND CHECK VALVES		1. CRANE 2. HAMMOND 3. MILWAUKEE 4. WATTS		1. AMTROL 2. ARMSTRONG 3. BELL AND GOSSETT 4. TACO		HYDRONIC PIPING SPECIALTIES				WIREWAY		1. B LINE 2. HOFFMAN 3. SQUARE D					
VIBRATION ISOLATORS		1. AMBER BOOTH 2. ANVIL 3. KINETICS NOISE CONTROL 4. KOPFUND 5. MASON INDUSTRIES 6. TOLCO 7. VIBRATION ELIMINATOR		1. BELL AND GOSSETT 2. FLOW DESIGN 3. FLOWSET 4. WATTS 5. ILLINOIS 6. KOPFUND 7. PASSENT 8. SIEMENS 9. TACO 10. THURSH		IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT		1. AMBER BOOTH 2. ANVIL 3. KINETICS NOISE CONTROL 4. KOPFUND 5. MASON INDUSTRIES 6. TOLCO 7. VIBRATION ELIMINATOR		1. AMTROL 2. ARMSTRONG 3. BELL AND GOSSETT 4. TACO		DUCT INSULATION		EXPANSION JOINTS		BOXES ENCLOSURES AND CABINETS		1. ABB INSTALLATION 2. APC CABLE SYSTEMS 3. ARNCO CORP 4. CANTER 5. CERTANET 6. CONDUX INTERNATIONAL 7. CROUSE WINDS 8. ELECTIFLEX 9. LAMSON AND SONS 10. MANHATTAN/CO/COLE FLX 11. RACO					
220700		PLUMBING INSULATION		230514		VARIABLE FREQUENCY DRIVE		230700		HVAC DUCT INSULATION		DUCT INSULATION		EXPANSION JOINTS		SURFACE RACEWAY		1. ABB INSTALLATION 2. CROUSE WINDS 3. HUBBELL 4. PANOUT 5. WALKER SYSTEMS 6. WIREMOLD					
221100		FACILITY PIPING AND SPECIALTIES		230514		VARIABLE FREQUENCY DRIVE		230700		HVAC DUCT INSULATION		DUCT INSULATION		EXPANSION JOINTS		SURFACE RACEWAY		1. ABB INSTALLATION 2. CROUSE WINDS 3. HUBBELL 4. PANOUT 5. WALKER SYSTEMS 6. WIREMOLD					
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COPPER		1. CERRO 2. CHASE 3. MUELLER 4. REVERE COPPER		230514		VARIABLE FREQUENCY DRIVE		230700		HVAC DUCT INSULATION		DUCT INSULATION		EXPANSION JOINTS		SURFACE RACEWAY		1. ABB INSTALLATION 2. CROUSE WINDS 3. HUBBELL 4. PANOUT 5. WALKER SYSTEMS 6. WIREMOLD					
FITTINGS		COPPER		230514		VARIABLE FREQUENCY DRIVE		230700		HVAC DUCT INSULATION		DUCT INSULATION		EXPANSION JOINTS		SURFACE RACEWAY		1. ABB INSTALLATION 2. CROUSE WINDS 3. HUBBELL 4. PANOUT 5. WALKER SYSTEMS 6. WIREMOLD					
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SHEET INDEX:

- CVR - COVER SHEET
- MEP100 - SCHEDULE OF MANUFACTURERS
- MEP200 - DEMOLITION PLAN
- MEP300 - ROOF MEP PLAN
- M100 - MECHANICAL PLAN
- M101 - MECHANICAL PLAN
- M200 - MECHANICAL DETAILS
- M300 - MECHANICAL SCHEDULES
- E100 - ELECTRICAL PLAN
- E200 - ELECTRICAL SCHEDULES AND DETAILS



DESIGNATED CONTRACTOR
LAYDOWN AREA IN FOUR
PARKING SPOTS ON NORTH
SIDE OF BUILDING

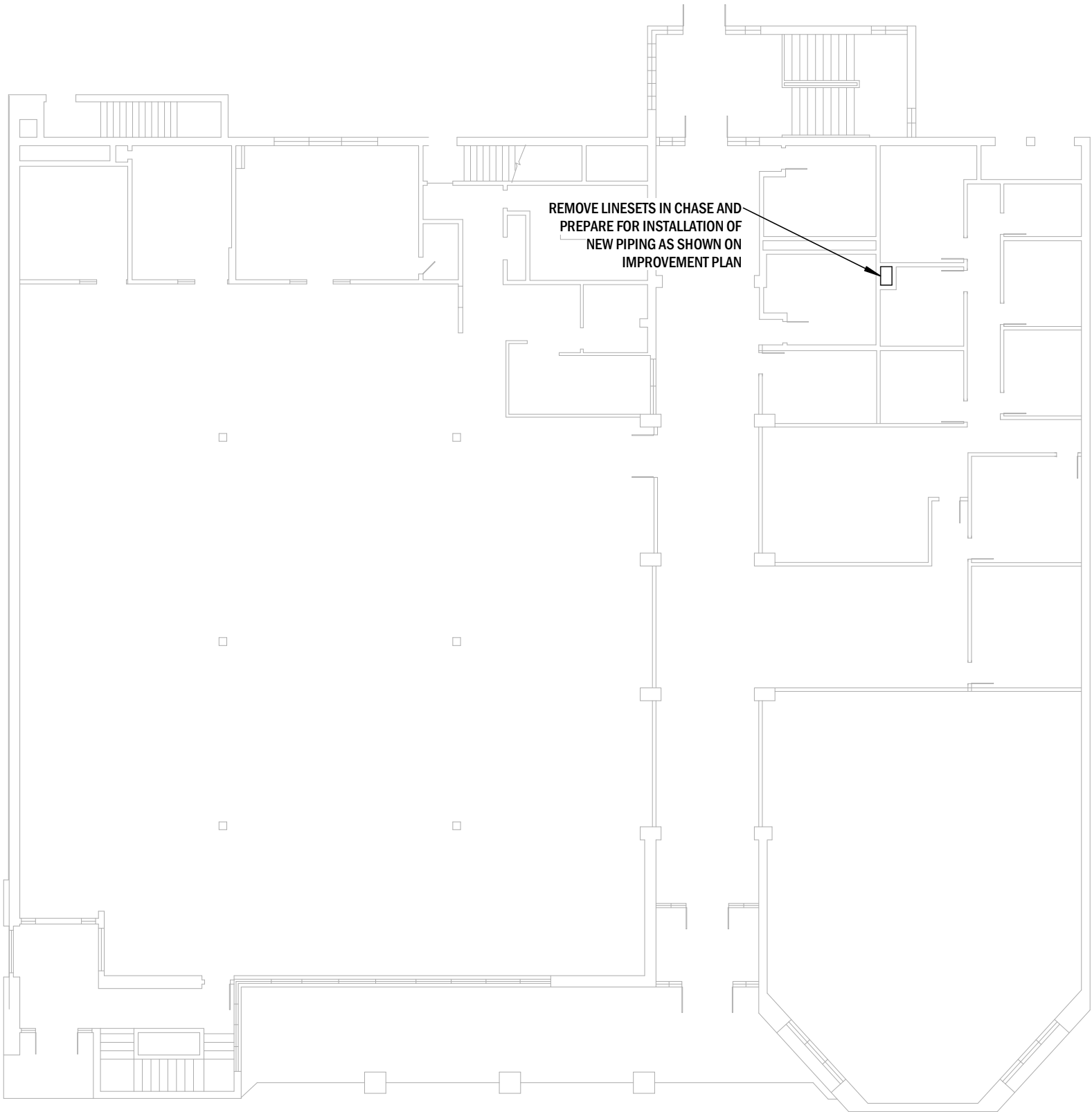
1 LAYDOWN DIAGRAM
Scale: NTS



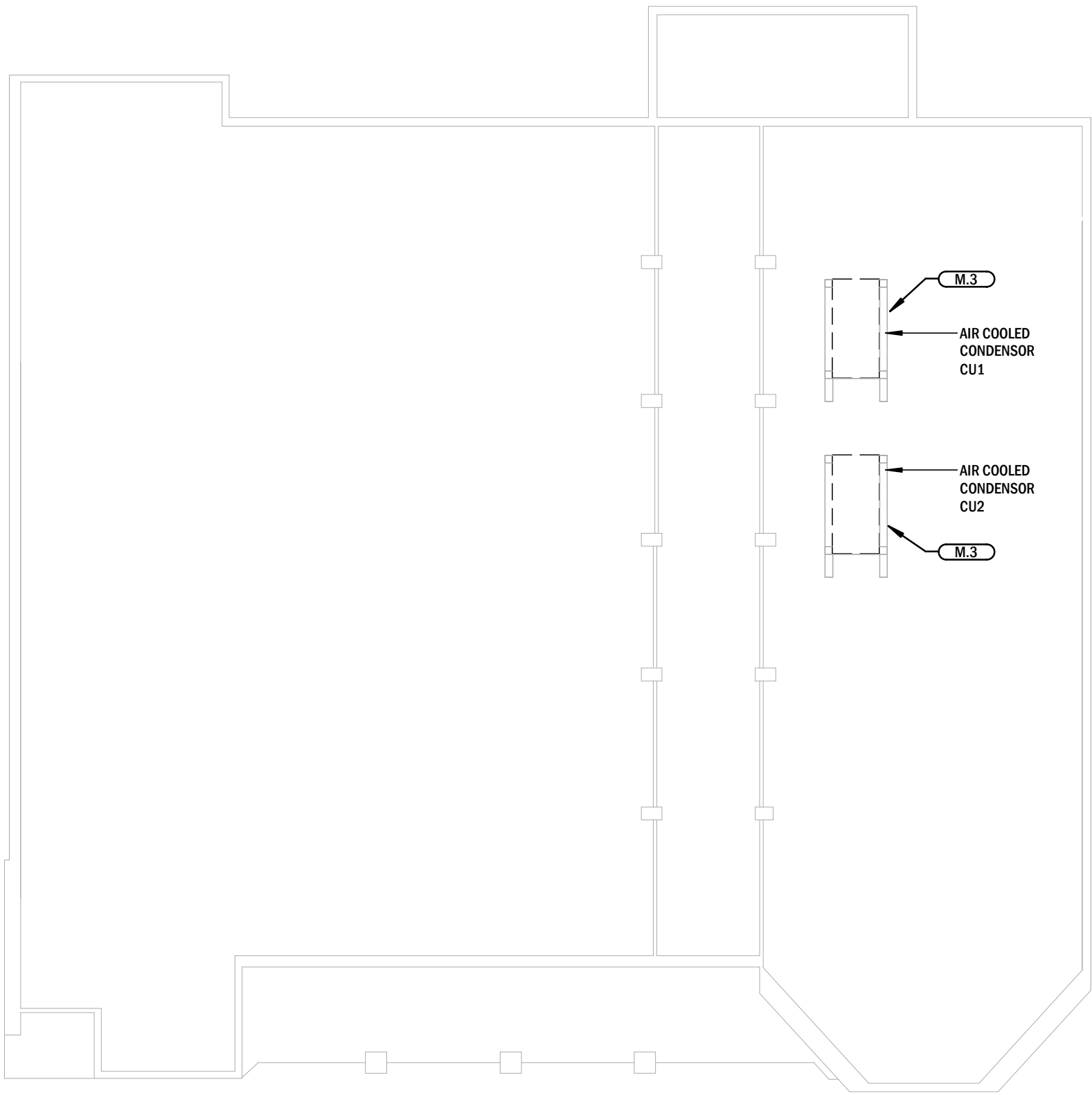
ALTERNATE DESCRIPTIONS	
ALTERNATE #1	REPLACE BOILER WITH TWO NEW CONDENSING HIGH EFFICIENCY BOILERS AND PROVIDE NEW PUMPS PIPING, FLUES AND ELECTRICAL CIRCUITING AS SHOWN.
ALTERNATE #2	REPLACE FAN IN MULTIZONE AIR HANDLER WITH NEW FAN WALL AND VARIABLE FREQUENCY DRIVES
ALTERNATE #3	PROVIDE NEW UV FILTERS IN EXISTING MULTIZONE AIR HANDLERS.

PHASING NOTES	
1	CONTRACTOR SHALL NOT REMOVE EXISTING EQUIPMENT UNTIL NEW EQUIPMENT IS SECURED AND DELIVERED TO CONTRACTORS LOCAL POSSESSION. THIS IS SO THAT BUILDING IS NOT WITHOUT HEATING OR COOLING WHILE UNIT PRODUCTION/SHIPPING IS IN PROGRESS.

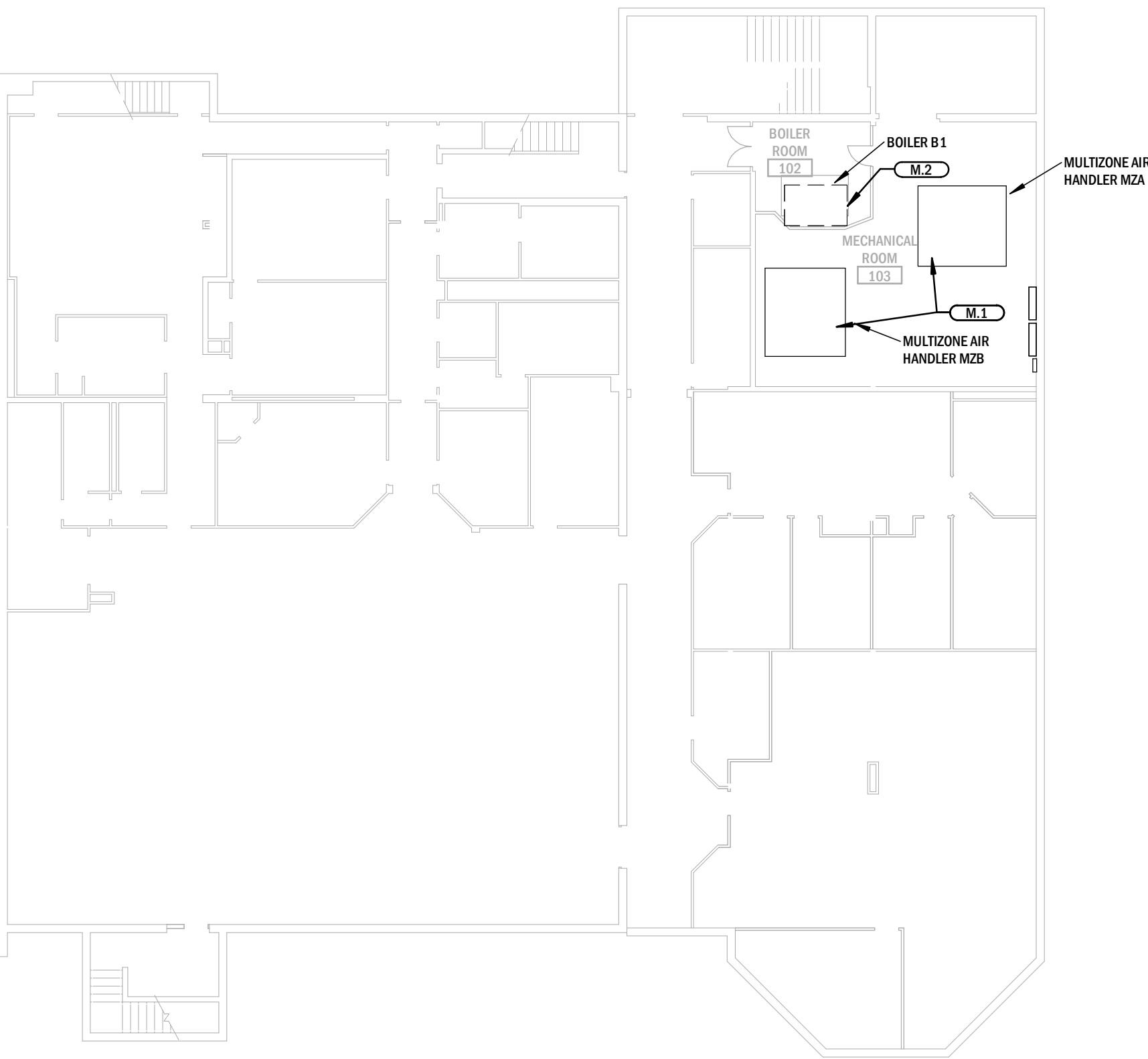
KEYNOTES	
M.1	EXISTING MULTIZONE UNIT SHALL REMAIN. PREPARE FOR REPLACEMENT OF COMPONENTS IN BASE BID AND BID ALTERNATES AS DETAILED ON IMPROVEMENT PLAN AND IN SPECIFICATIONS.
M.2	ALTERNATE 1: REMOVE BOILER AND PREPARE PIPING AND ELECTRICAL CONNECTIONS FOR INSTALLATION OF NEW BOILERS AND CONNECTION TO EXISTING PIPING, POWER AND FLUES.
M.3	REMOVE AIR COOLED CONDENSER AND ASSOCIATED REFRIGERANT PIPING AND PREPARE FOR INSTALLATION OF NEW UNIT AS DETAILED ON IMPROVEMENT PLAN.



2 FIRST FLOOR MEP DEMOLITION PLAN
Scale: 1/16" = 1'-0" NORTH



3 ROOF MEP DEMOLITION PLAN
Scale: 1/16" = 1'-0" NORTH



1 BASEMENT MEP DEMOLITION PLAN
Scale: 1/16" = 1'-0" NORTH

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



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UPGRADE/RELOCATE
ROOFTOP UNITS

SPRINGFIELD DOLIR
OFFICE BUILDING

SPRINGFIELD, MO

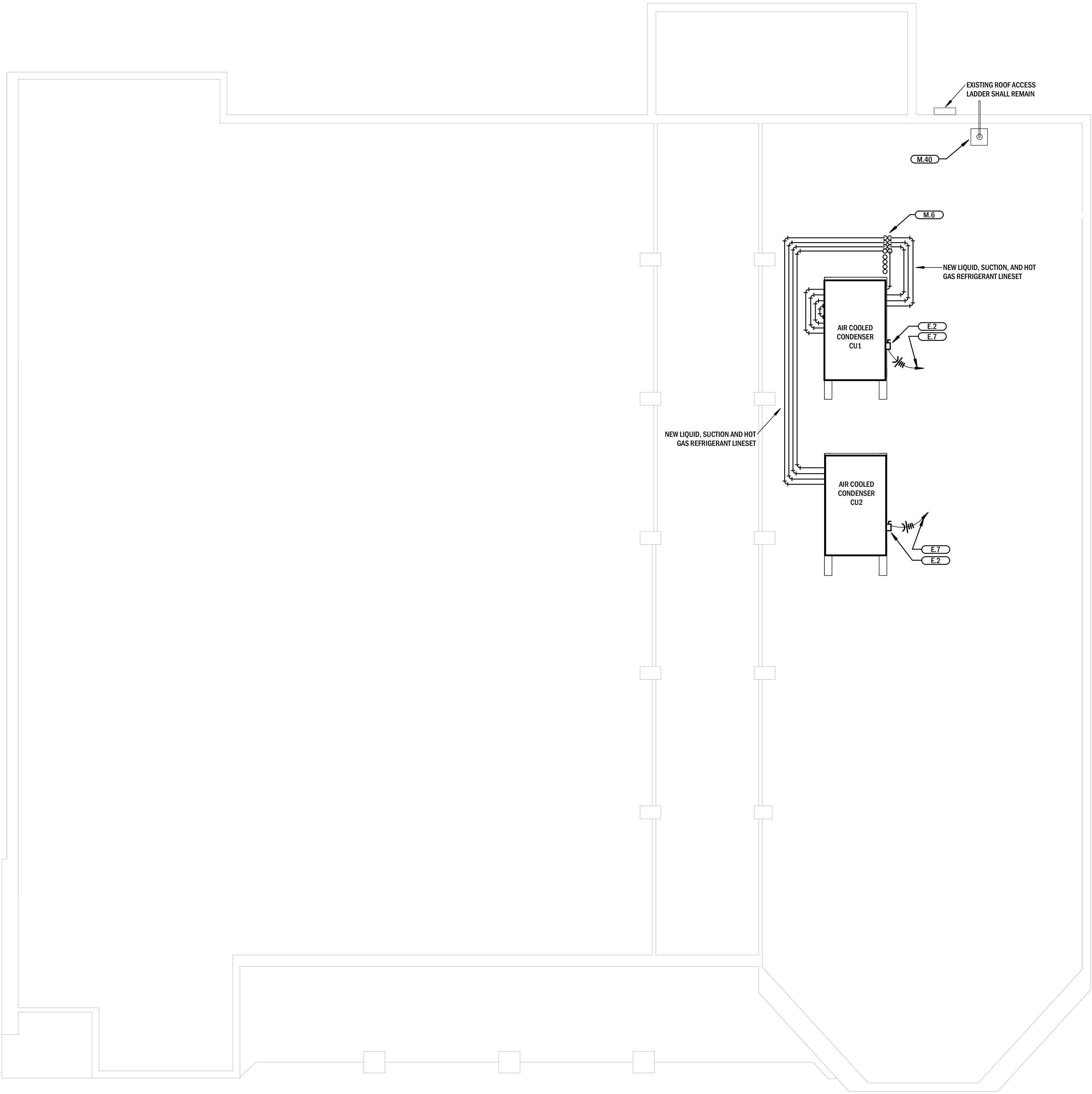
PROJECT# 02516-01
SITE # 1032
FACILITY # 3101032001

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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: _____

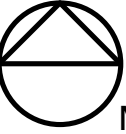
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DRAWN BY: BRP
CHECKED BY: BRP
DESIGNED BY: BRP

SHEET TITLE:
**DEMOLITION
PLANS**

SHEET NUMBER:
MEP200
3 OF 10 SHEETS
9/30/2025




1 ROOF MEP PLAN
Scale: 1/8" = 1'-0"

 NORTH

PHOTOGRAPHIC DOCUMENTATION	
1	CONTRACTOR SHALL DOCUMENT EXISTING ROOF CONDITION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND THROUGHOUT THE CONSTRUCTION PROCESS. SEE SPECIFICATIONS FOR PHOTOGRAPHIC REQUIREMENTS.

KEYNOTES	
E.2	PROVIDE NEW 400A, NON FUSED, NEMA 3R DISCONNECT FOR CONDENSER.
E.7	PROVIDE NEW 300A CIRCUIT BREAKER IN EXISTING PANEL. PDPA AND WIRE NEW CONDENSER TO EXISTING CIRCUIT. PREVIOUS UNITS ARE FED FROM A 300A CIRCUIT. REMOVE EXISTING BREAKER TO ACCOMMODATE NEW UNIT. CONTRACTOR SHALL HAVE OPTION TO REUSE EXISTING CONDUIT FOR NEW FEEDERS TO EXISTING PANEL.
M.6	ROUTE REFRIGERANT LINES DOWN IN CHASE TO MECHANICAL ROOM BELOW. PROVIDE NEW WEATHERPROOF DOGHOUSE, NEW ROOF FLASHING AND REPAIR ROOF AT NEW PIPING PENETRATION. SEAL PENETRATIONS AND KEEP WEATHER TIGHT.
M.40	PROVIDE DAWIT CRANE EQUAL TO OZ LIFTING PRODUCTS ALUM-LITE 500LB DAWIT CRANE WITH HAND WENCH. PROVIDE BASE FOR INSTALLATION ON ROOF TOP.

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UPGRADE/RELOCATE
ROOFTOP UNITS

SPRINGFIELD DOLIR
OFFICE BUILDING

SPRINGFIELD, MO

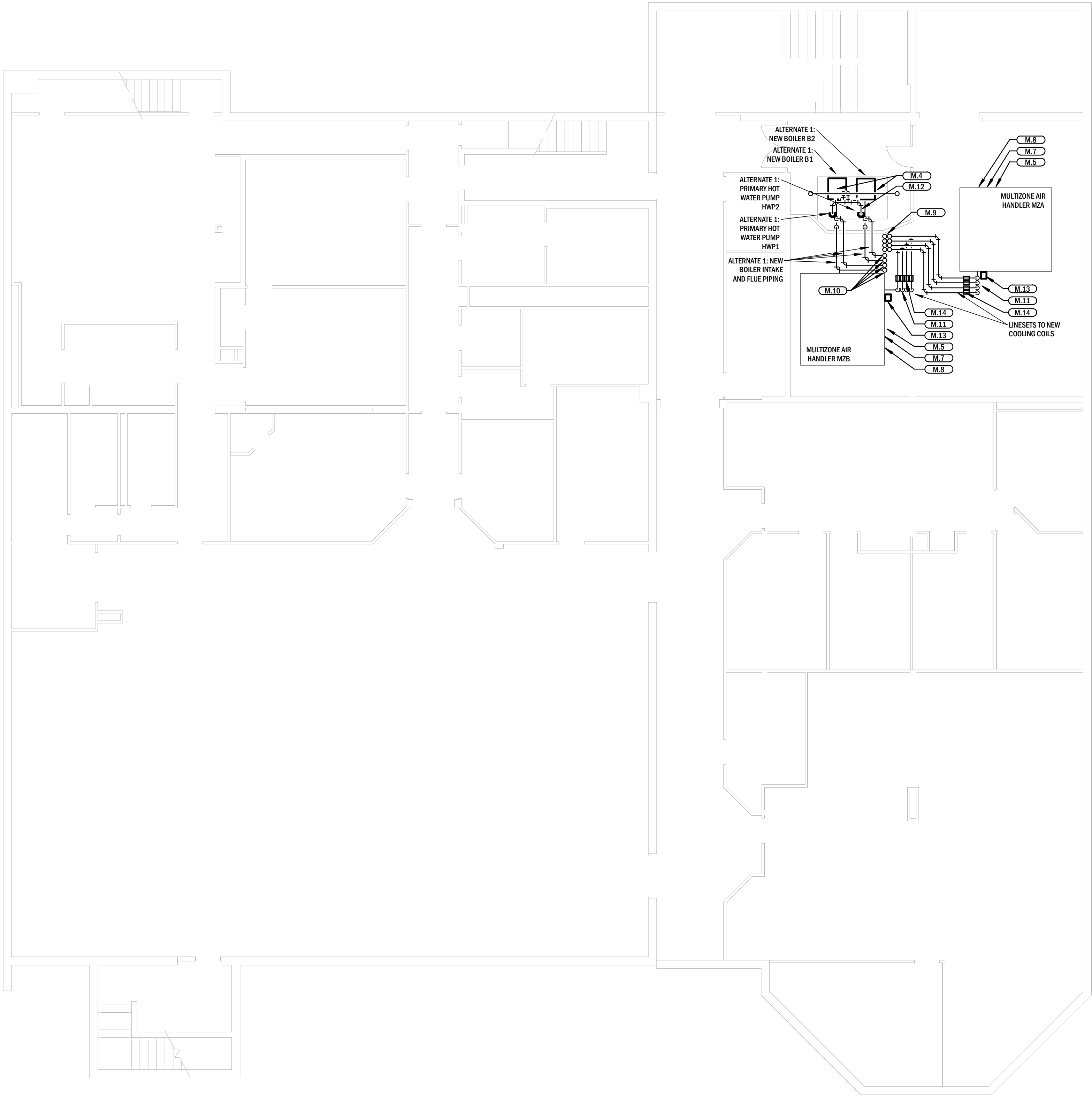
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SITE # 1032
FACILITY # 3101032001

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DATE: _____
REVISION: _____
DATE: _____
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CAD DWG FILE: MEP300 _____
DRAWN BY: BRP _____
CHECKED BY: BRP _____
DESIGNED BY: BRP _____

SHEET TITLE:
ROOF MEP PLAN

SHEET NUMBER:
MEP300
4 OF 10 SHEETS
9/30/2025



1 BASEMENT MECHANICAL PLAN
Scale: 1/8" = 1'-0"



KEYNOTES	
M.4	ALTERNATE 1: PROVIDE NEW BOILERS AND PUMPS. SEE HOT WATER LOOP IMPROVEMENT DIAGRAM .FOR ADDITIONAL DETAILS.
M.5	ALTERNATE 2: EXISTING MULTIZONE UNIT SHALL BE REFURBISHED WITH NEW FAN WALL AND VFD
M.7	ALTERNATE 3: PROVIDE NEW UV FILTRATION ON DISCHARGE FACE OF COOLING COIL. SEE AIR HANDLER UPGRADE DETAIL.
M.8	PROVIDE NEW EVAPORATOR COIL IN AIR HANDLER CONNECTED TO NEW AIR COOLED CONDENSER.
M.9	ROUTE REFRIGERANT PIPING UP IN CHASE ABOVE.
M.10	ALTERNATE 1: ROUTE 8" FLUES UP THROUGH FLOORS ABOVE IN CHASE.
M.11	ROUTE REFRIGERANT LINESETS DOWN TO NEW EVAPORATER COILS IN EXISTING AIR HANDLERS.
M.12	ALTERNATE 1: NEW PIPING CONNECTION FOR BOILERS TO EXISTING HOT WATER PIPING LOOP. SEE HOT WATER LOOP DIAGRAMS FOR SIZING AND PIPING REQUIREMENTS.
M.13	REFRIGERANT LEAK DETECTION. CONNECT TO BUILDING MANAGEMENT SYSTEM. SEE SEQUENCE OF OPERATIONS FOR DETECTION OPERATION REQUIREMENTS.
M.14	REFRIGERANT CONTROL SOLENOID VALVES FOR REFRIGERANT SHUTOFF.

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SPRINGFIELD, MO

PROJECT# O2516-01
SITE # 1032
FACILITY # 3101032001

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DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: _____

CAD DWG FILE: M100
DRAWN BY: BRP
CHECKED BY: BRP
DESIGNED BY: BRP

SHEET TITLE:
**MECHANICAL
PLAN**

SHEET NUMBER:
M100
5 OF 10 SHEETS
9/30/2025



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ROOFTOP UNITS

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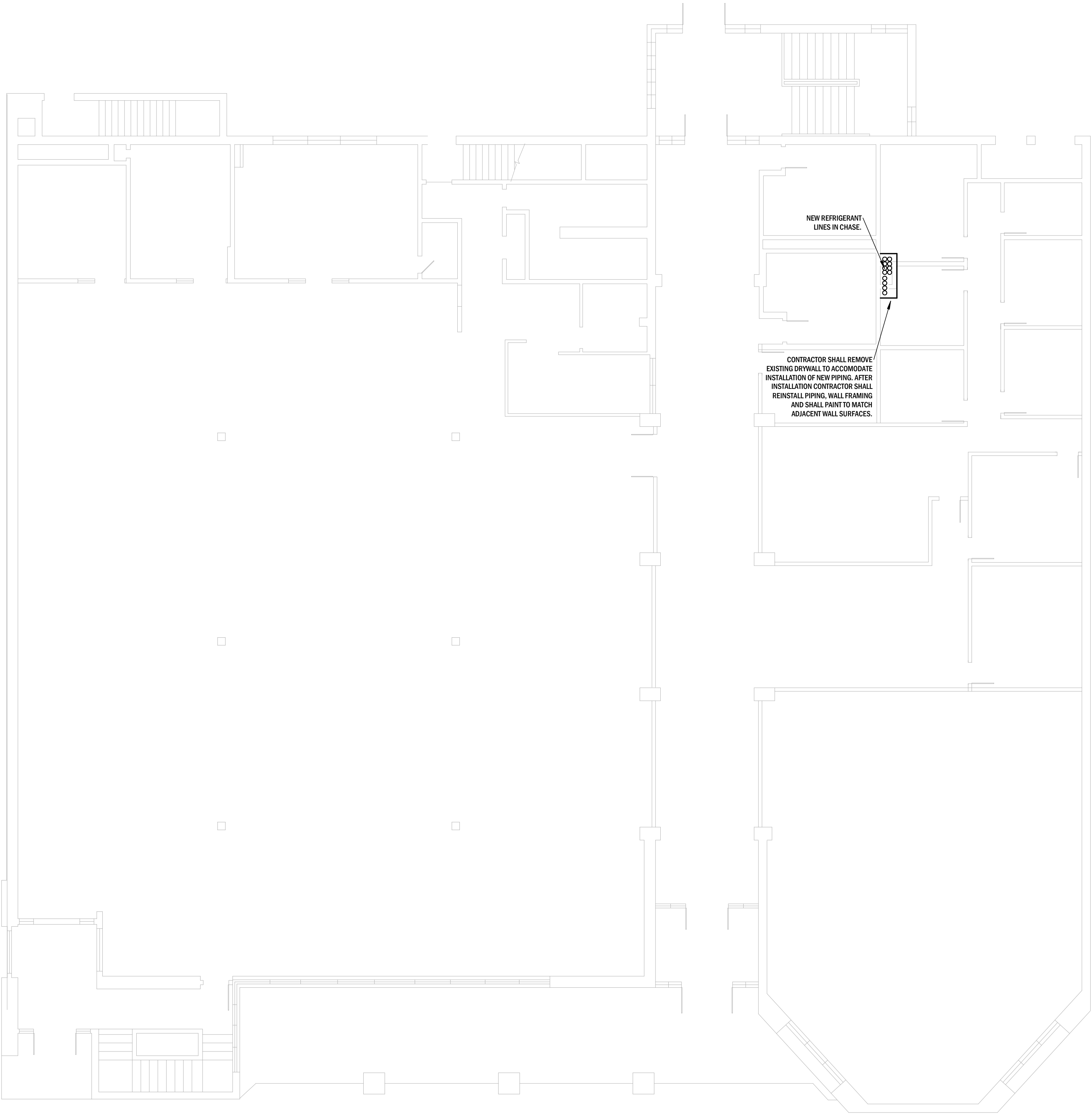
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SITE # 1032
FACILITY # 3101032001

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ISSUE DATE:

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DRAWN BY: BRP
CHECKED BY: BRP
DESIGNED BY: BRP

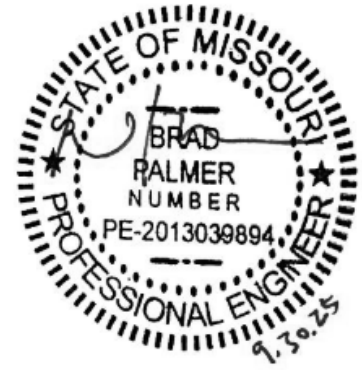
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MECHANICAL
PLAN

SHEET NUMBER:
M101
6 OF 10 SHEETS
9/30/2025



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





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ROOFTOP UNITS

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SPRINGFIELD, MO

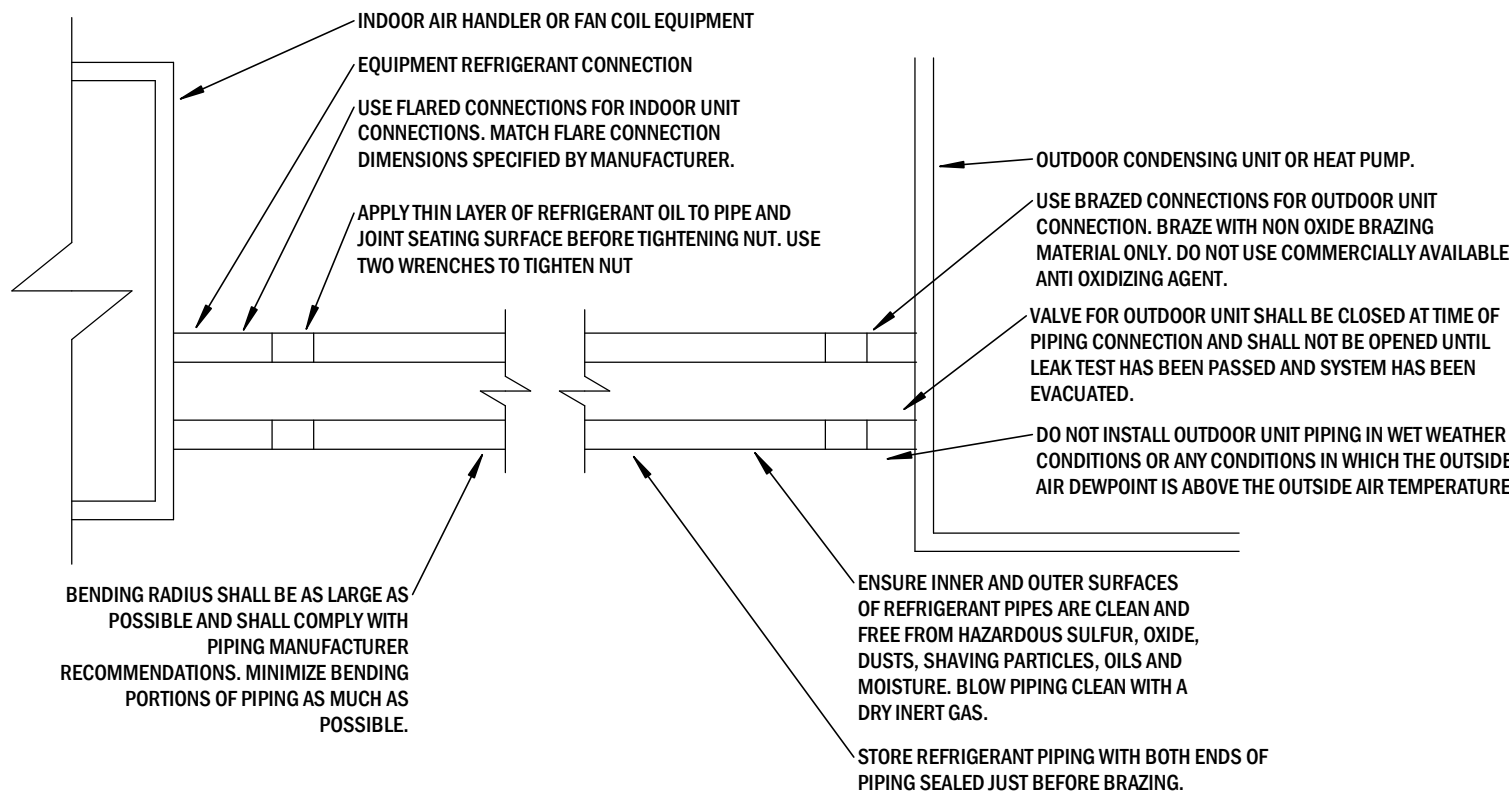
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SITE # 1032
FACILITY # 3101032001

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CAD DWG FILE: M200
DRAWN BY: BRP
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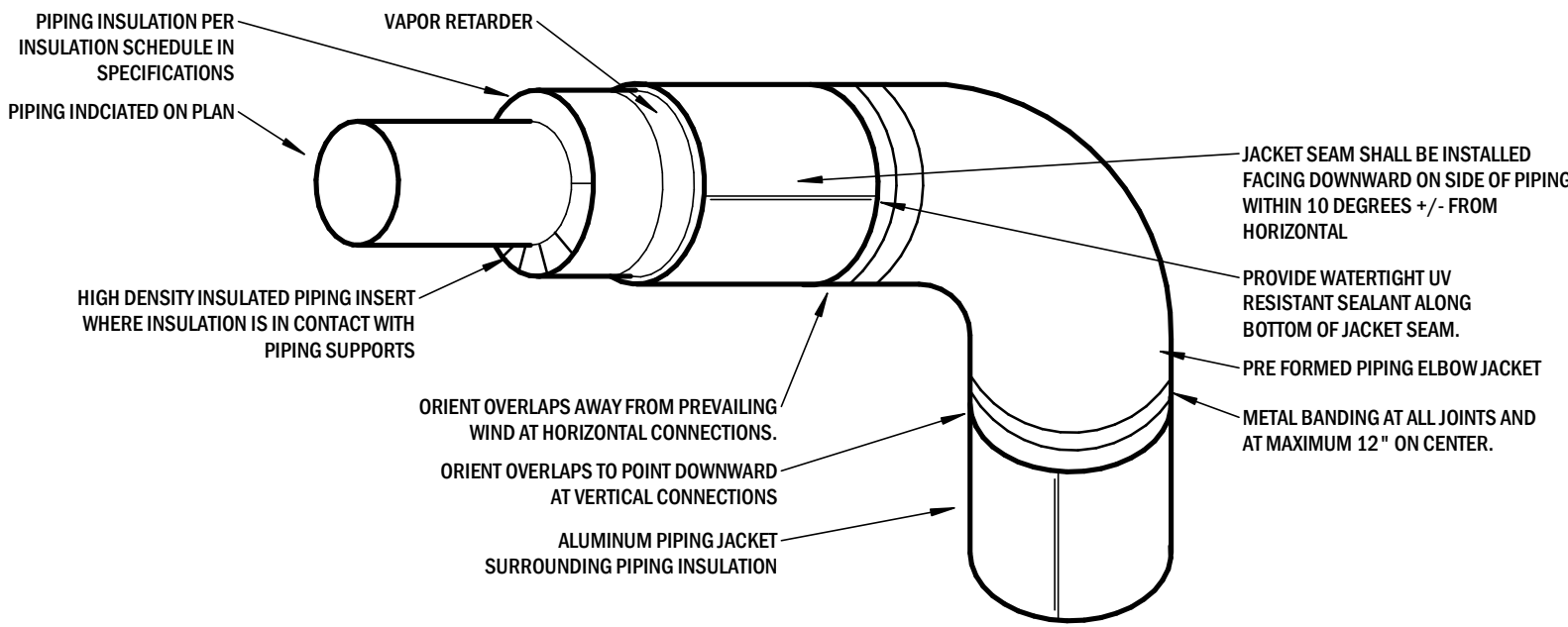
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MECHANICAL
DETAILS

SHEET NUMBER:
M200
7 OF 10 SHEETS
9/30/2025



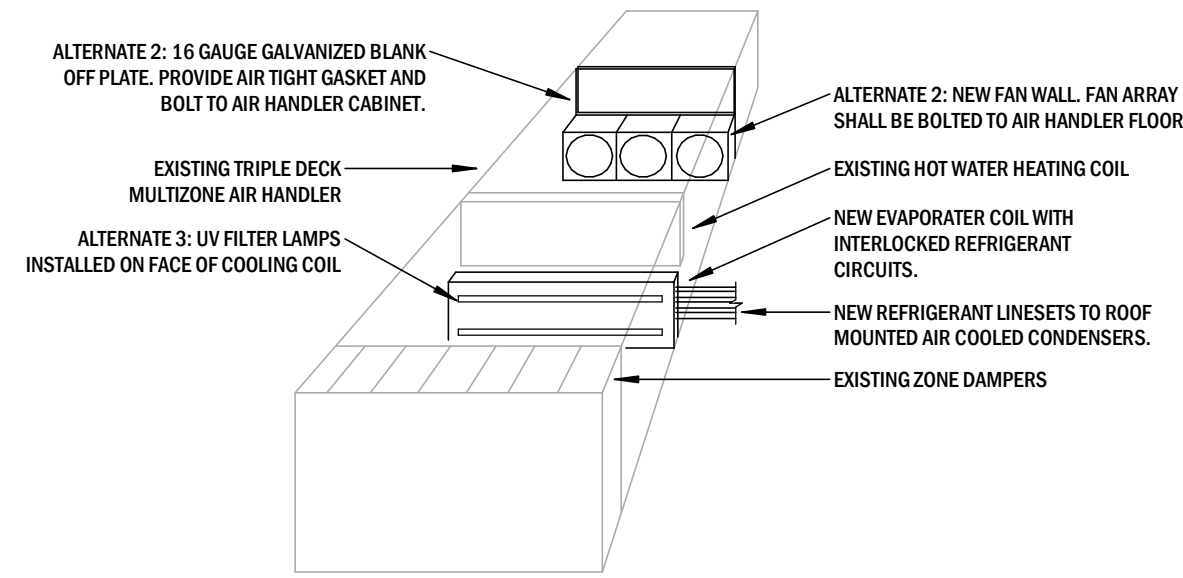
11 REFRIGERANT PIPING REQUIREMENTS DETAIL

Scale: NTS



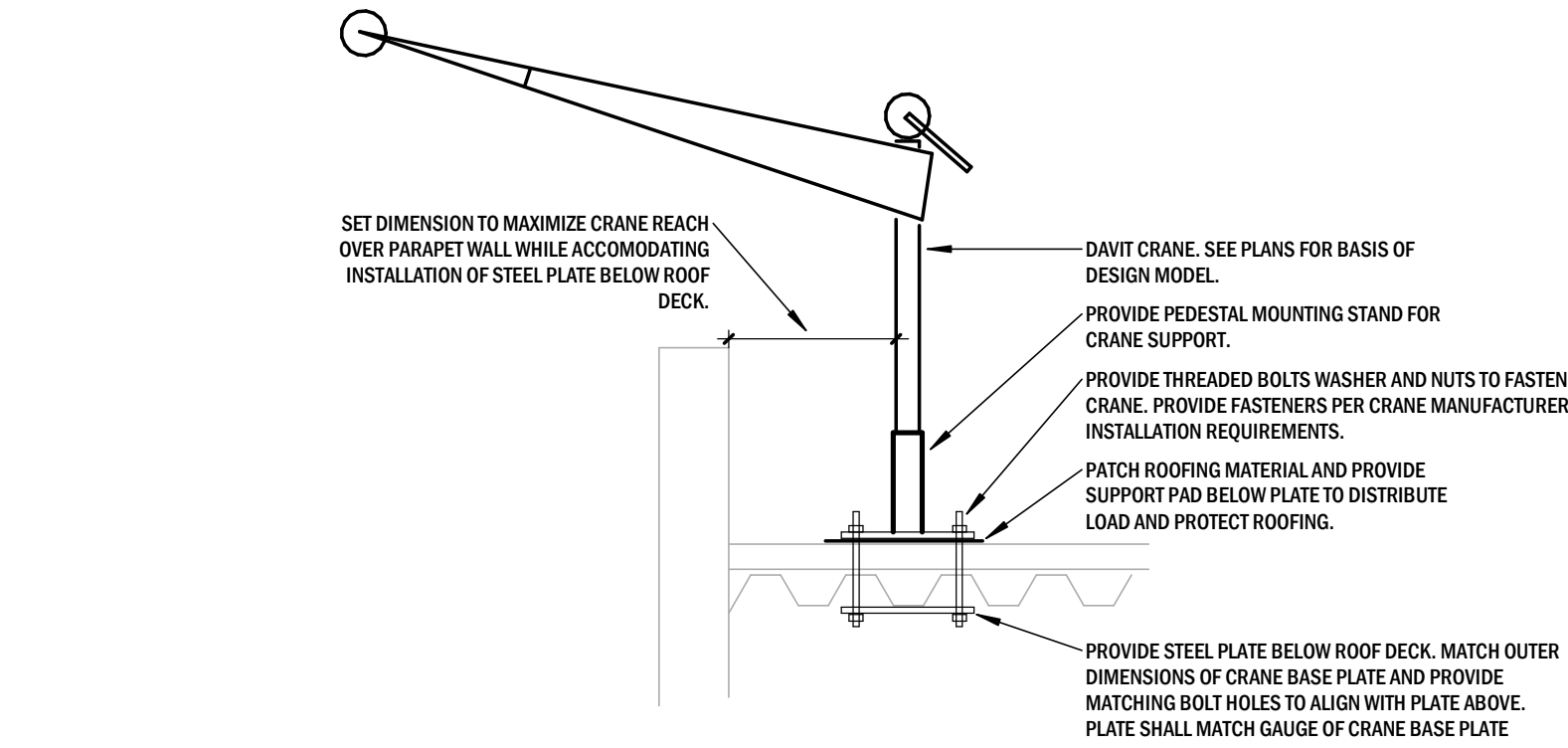
10 EXTERIOR PIPING INSULATION DETAIL

Scale: NTS



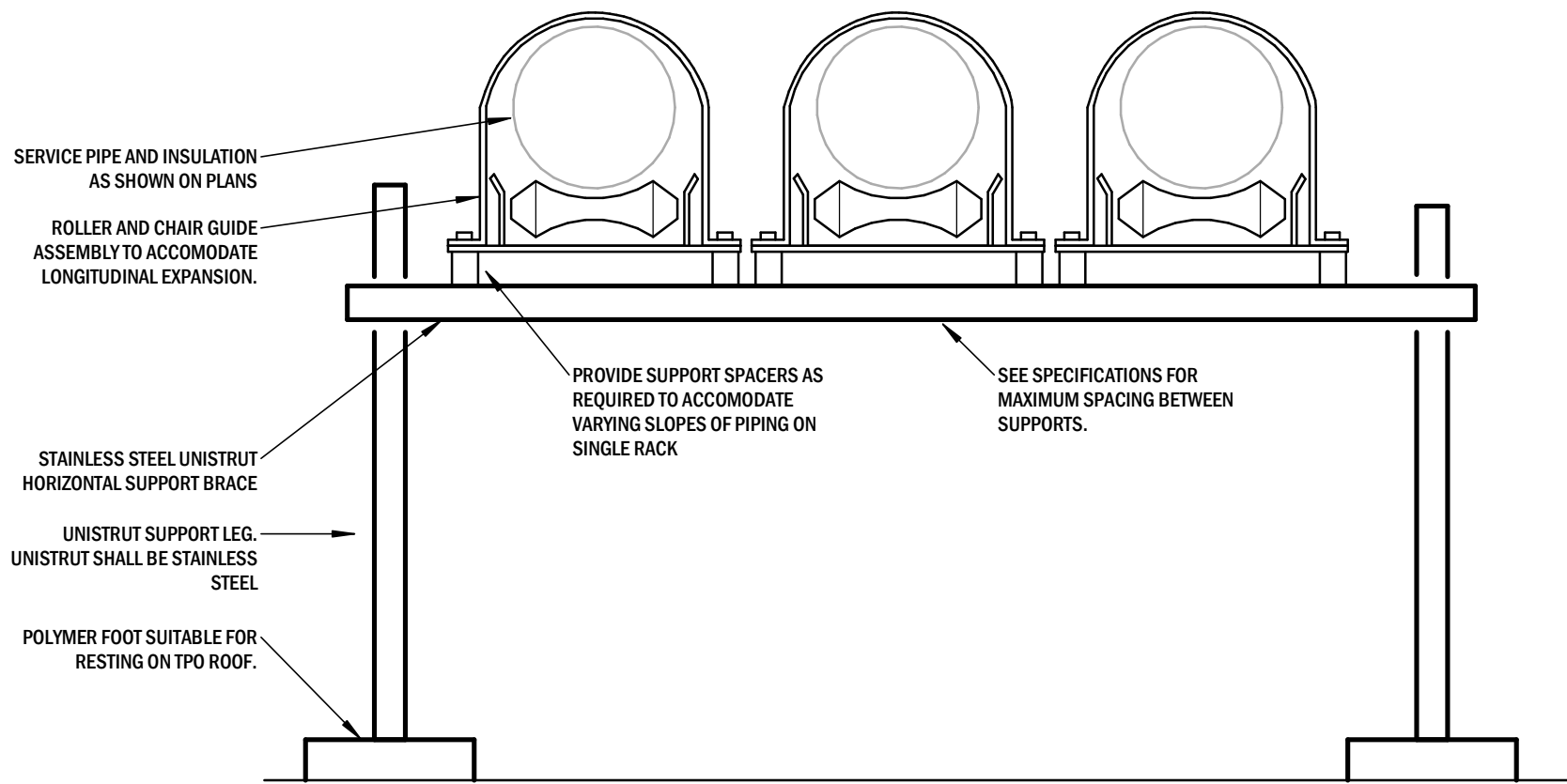
9 MULTIZONE AIR HANDLER UPGRADE DETAIL

Scale: NTS



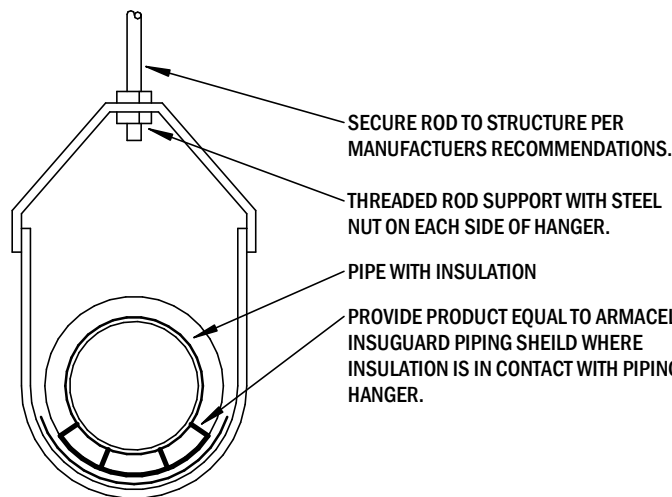
8 ROOF MOUNTED DAVIT CRANE DETAIL

Scale: NTS



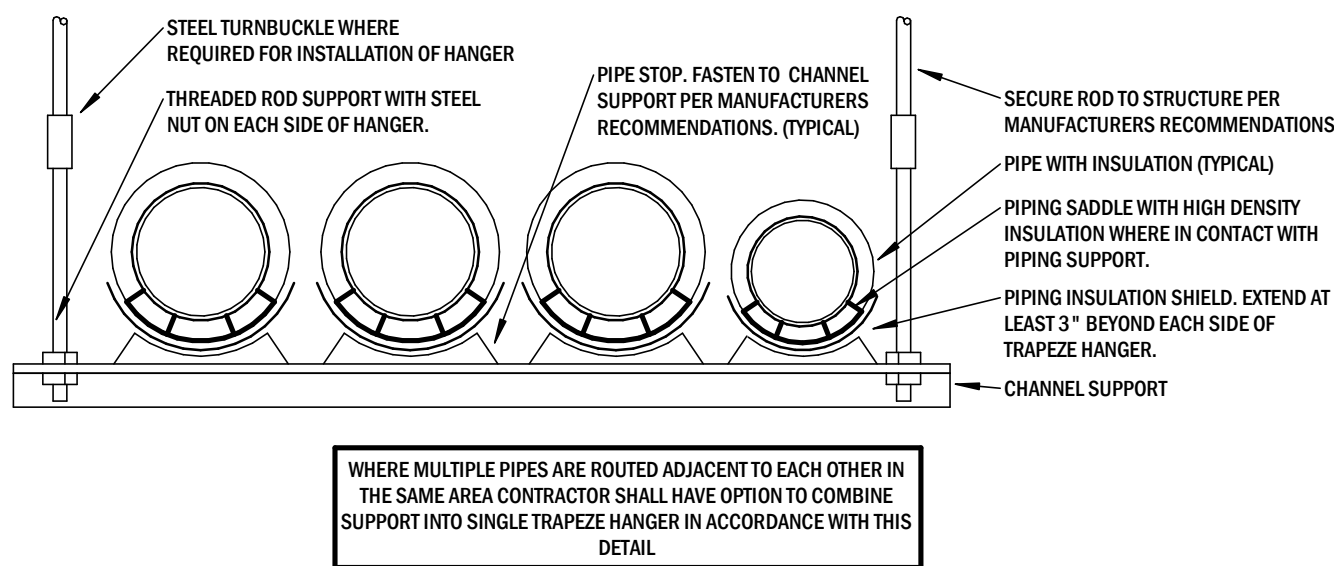
7 PIPING SUPPORT STAND DETAIL

Scale: NTS



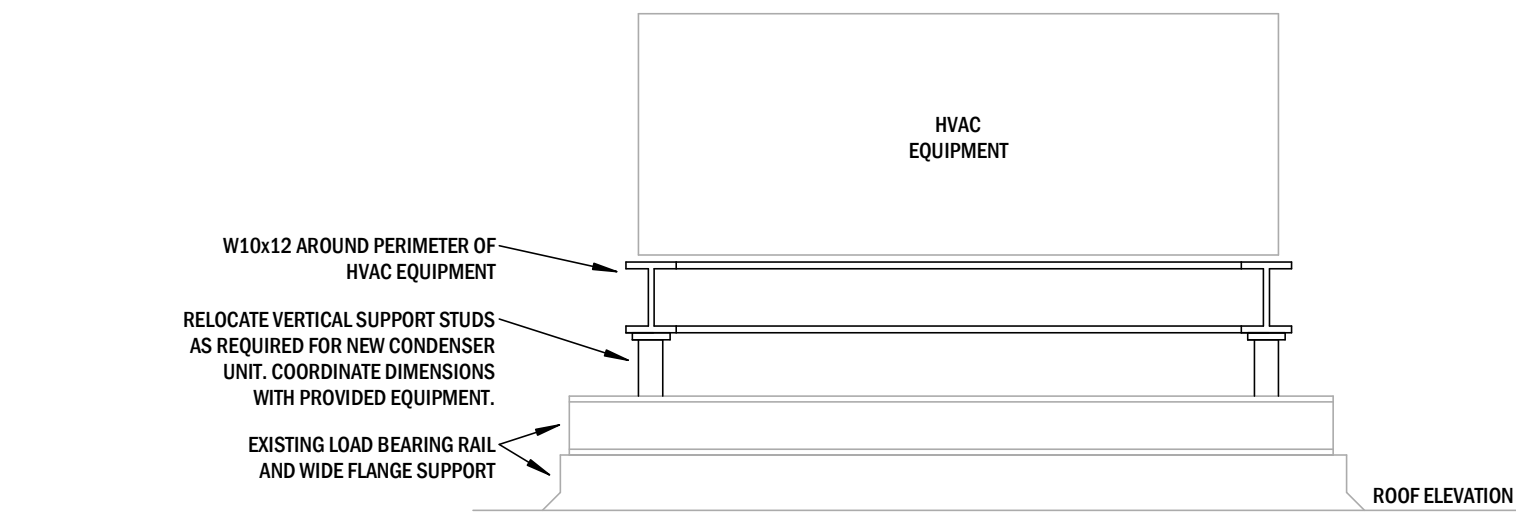
6 CLEVIS PIPE HANGER DETAIL

Scale: NTS



5 MULTIPLE PIPE TRAPEZE HANGER DETAIL

Scale: NTS

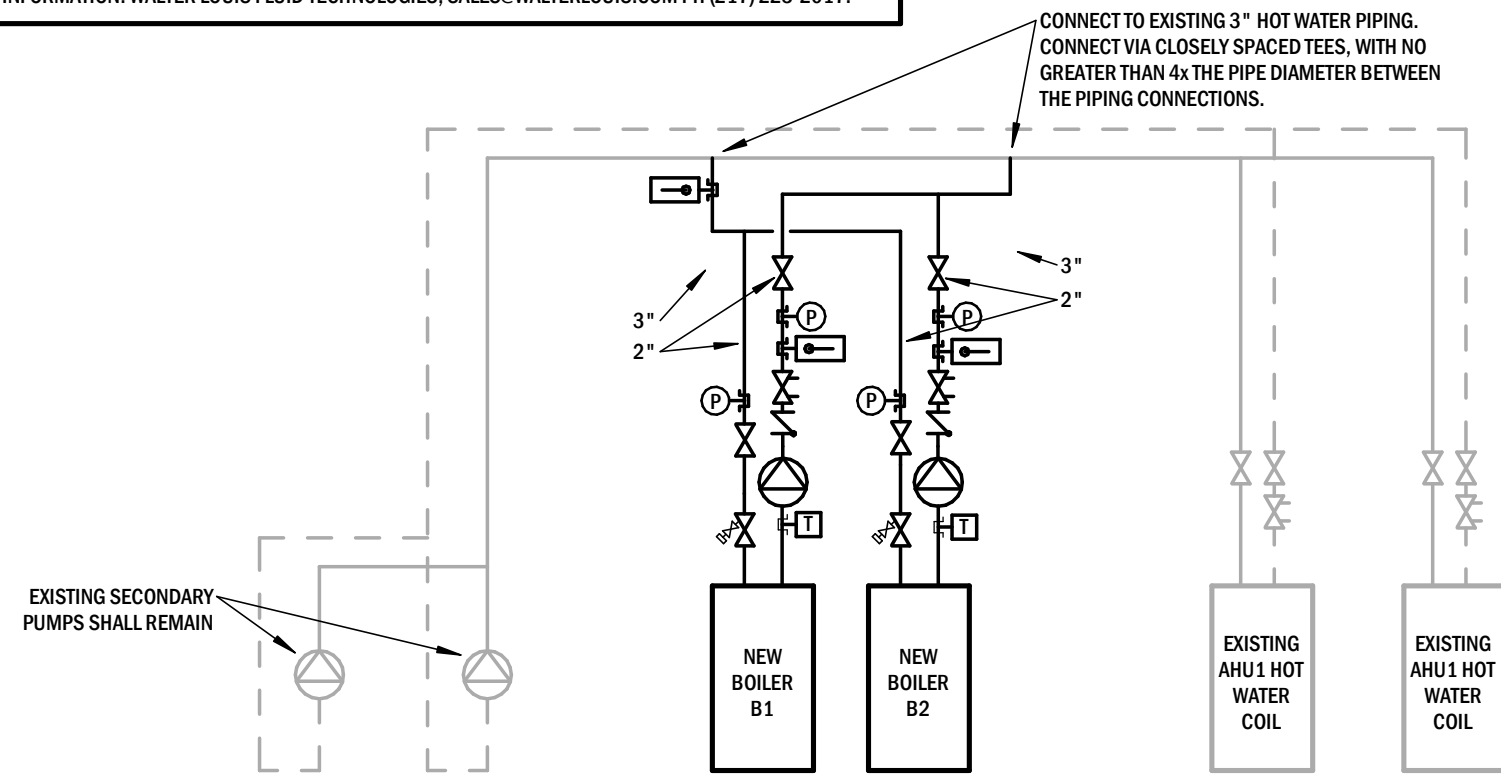


4 ROOF CONDENSER SUPPORT FRAME

Scale: NTS

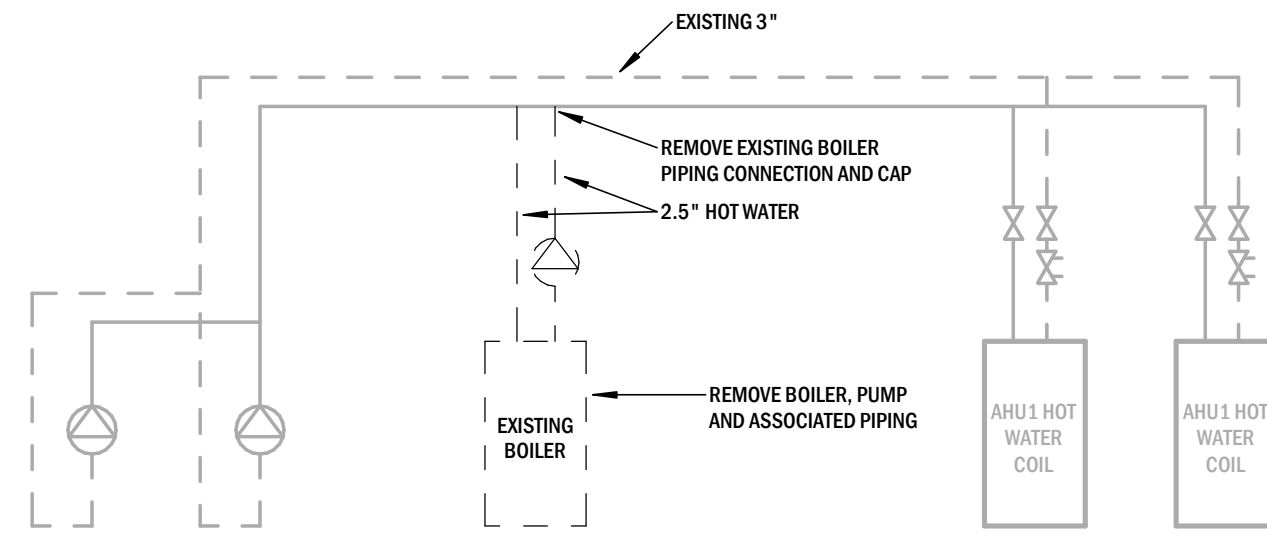
WATER TREATMENT SYSTEM: THE WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING WALTER LOUIS FLUID TECHNOLOGIES AS THE WATER TREATMENT CONTRACTOR AND INCLUDE ALL COSTS ASSOCIATED WITH INSTALLATION, EQUIPMENT, LABOR AND CHEMICALS ASSOCIATED WITH PROVIDING A COMPLETE AND OPERATIONAL SYSTEM AS DESCRIBED ON THESE DOCUMENTS AND SPECIFICATIONS.

CONTACT INFORMATION: WALTER LOUIS FLUID TECHNOLOGIES, SALES@WALTERLOUIS.COM PH (217) 223-2017.



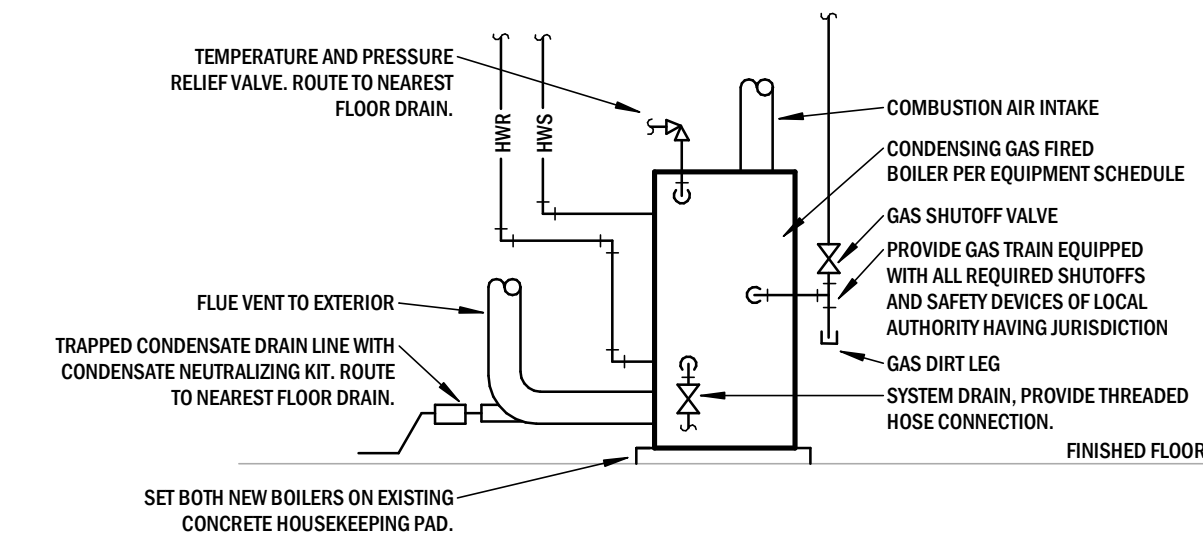
3 HOT WATER LOOP IMPROVEMENT DIAGRAM

Scale: NTS



2 HOT WATER LOOP DEMOLITION DIAGRAM

Scale: NTS



1 ALTERNATE 1: BOILER DETAIL

Scale: NTS



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UPGRADE/RELOCATE
ROOFTOP UNITS

SPRINGFIELD DOLIR
OFFICE BUILDING

SPRINGFIELD, MO

PROJECT# 02516-01
SITE # 1032
FACILITY # 3101032001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: M300
DRAWN BY: BRP
CHECKED BY: BRP
DESIGNED BY: BRP

SHEET TITLE:
MECHANICAL
SCHEDULES

SHEET NUMBER:

M300
8 OF 10 SHEETS
9/30/2025

HVAC SYMBOLS	
	CEILING SUPPLY GRILLE
	CEILING RETURN/ EXHAUST GRILLE
	LINEAR SUPPLY/RETURN GRILLE
	WALL SUPPLY/RETURN/EXHAUST GRILLE OR REGISTER
	DIFFUSER OR GRILLE WITH FLEX DUCT. SIZE OF FLEX DUCT SHALL EQUAL SIZE OF UPSTREAM DUCT.
	INDICATES CONNECTION TO EXISTING SYSTEM
	THERMOSTAT
	CO2 SENSOR
	REMOTE AVERAGING TEMPERATURE SENSOR
	HUMIDISTAT
	TEMPERATURE OVERRIDE SENSOR
	DIFFUSER TAG - LETTER AND CEILING DESIGNATION, NECK SIZE AND CFM
	FIRE DAMPER
	SMOKE DAMPER
	MOTORIZED DAMPER
	BALANCE DAMPER
	GRAVITY BACKDRAFT DAMPER
	CONDENSATE DRAIN
	REFRIGERANT LINESET (LIQUID, SUCTION AND HEAT RECOVERY WHERE APPLICABLE)
	HPWS - HEAT PUMP WATER SUPPLY
	HPWR - HEAT PUMP WATER RETURN
	CHWS - CHILLED WATER SUPPLY
	CHWR - CHILLED WATER RETURN
	HWS - HOT WATER SUPPLY
	HWR - HOT WATER RETURN
	SHUTOFF VALVE
	BALANCE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	TWO WAY CONTROL VALVE. MODULATING UNLESS OTHERWISE NOTED AS TWO POSITION.
	THREE WAY CONTROL VALVE. MODULATING UNLESS OTHERWISE NOTED AS TWO POSITION.
	PRESSURE INDEPENDENT TWO WAY MODULATING CONTROL VALVE
	PRESSURE INDEPENDENT THREE WAY MODULATING CONTROL VALVE
	THROTTLING VALVE
	PRESSURE GAUGE
	UNION/FLANGE
	TEMPERATURE SENSOR WITH WELL
	FILLED TYPE THERMOMETER WITH WELL
	MANUAL AIR VENT
	WYE STRAINER AND HOSE CONNECTION CAP
	SUCTION DIFFUSER
	PUMP
	FLEXIBLE CONNECTION
	HIGH CAPACITY AIR VENT. PIPE DISCHARGE TO DRAIN OR FILL TANK.

ABBREVIATIONS	
60"	DIMENSIONS NEXT TO ANY SYMBOL OR FIXTURE INDICATES MOUNTING HEIGHT TO CENTERLINE OF DEVICE.
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
HP	HEAT PUMP
DN	DOWN
EF	EXHAUST FAN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED

ALTERNATE 1: PUMP SCHEDULE									
MARK	HWP1	HWP2							
DESCRIPTION	HHW	HHW							
MANUFACTURER	B&G	B&G							
MODEL	PL-130/2"	PL-130/2"							
TYPE	IL	IL							
DESIGN FLOW (GPM)	48	48							
DESIGN HEAD (FT.)	16	16							
WETTED MATERIAL	BR	BR							
WORK. CLASS (PSI)	150	150							
MOTOR TYPE									
MOTOR POWER	2/5 HP	2/5 HP							
RPM	3200	3200							
VOLTAGE / PHASE	230/1	230/1							
TRIPLE DUTY VALVE	--	--							
SUCTION DIFFUSER	--	--							
FLUID TEMP. RANGE (F)	40-225	40-225							
ACCESSORIES	--	--							
ABBREVIATIONS:			ABBREVIATIONS:						
IL:	IN-LINE		VSC:	VARIABLE SPEED CONTROL					
WR:	WET ROTOR		PPC:	PROPORTIONAL PRESSURE CURVE CONTROL					
BMES:	BASE MOUNTED END SUCTION		CPC:	CONSTANT PRESSURE CURVE CONTROL					
BMHSC:	BASE MOUNTED HORIZONTAL SPLIT CASE		DTC:	DIFFERENTIAL TEMPERATURE CONTROL					
BMVSC:	BASE MOUNTED VERTICAL SPLIT CASE		BP:	HEAVY DUTY BASEPLATE					
BMCCS:	BASE MOUNTED CLOSE COUPLED END SUCTION		B&G:	BELL AND GOSSETT					
BR:	BRONZE/BRASS		HHW:	HYDRONIC HEATING HOT WATER					
SS:	STAINLESS STEEL		AS:	AQUASTAT WITH TIMECLOCK AND CORD AND PLUG					
IR:	IRON		EPF:	EFFLUENT					
			SP:	SUMP PIT AS DETAILED OR PER MANUFACTURER RECOMMENDATIONS					
			OM:	OIL MINDER					

PIPING MATERIAL SCHEDULE									
PIPING			TEST PARAMETERS		FITTING		LABEL COLOR		
TYPE	SIZE	MATERIAL	PRESSURE	TIME	MATERIAL	TYPE	BACKGROUND	TEXT	
HOT WATER SUPPLY AND RETURN	3" AND SMALLER	TYPE L COPPER	150 PSI	1 HR	CP	SL	GREEN	WHITE	
HOT WATER SUPPLY AND RETURN	LARGER THAN 3"	SCHEDULE 40 BLACK STEEL	150 PSI	1 HR	ST	WE	GREEN	WHITE	
CONDENSATE DRAIN	ALL	TYPE L COPPER TUBING	5 PSI	1 HR	WC-DWV	SL	--	--	
REFRIGERANT PIPING	ALL	ACR COPPER TUBING - TYPE L	600 PSI	24 HR	CP	BZ	YELLOW	BLACK	
ABBREVIATIONS: BF: BUTT FUSION BZ: BRAZED - NO FLUX CI: CAST IRON CP: COPPER CR: CRIMPED DW: DRAINAGE WASTE AND VENT FSL: FORGED STEEL FLANGES MAT: MATERIAL MI: MALLEABLE IRON PE: HIGH DENSITY POLYETHYLENE GR: GROOVED RS: RESIN SOCKET SL: SOLDERED SW: SOLVENT WELD TH: THREADED WC: WROUGHT COPPER WE: WELDED WF: WELDED AND FLANGED ST: STEEL									

ALTERNATE 2: FAN WALL SCHEDULE			
MARK	FW1- MZA	FW2- MZB	
MANUFACTURER	NORTEK	NORTEK	
MODEL NUMBER	22-65-182T-36x36x27-A3	22-65-182T-36x36x27-A3	
FUNCTION	SUPPLY FAN	SUPPLY FAN	
QUANTITY	3	3	
ARRAY (ROWS/ COILS)	1 ROW X 3 COILS	1 ROW X 3 COILS	
INLET CONE LOCATION/TYPE	UPSTREAM REMOVABLE	UPSTREAM REMOVABLE	
CELL SIZE	36x36x27x32	36x36x27x32	
MOTOR WHEEL WEIGHT	177 LB	177 LB	
FAN CELL WEIGHT	321 LB	321 LB	
CELL MATERIAL	ALUMINUM/STEEL	ALUMINUM/STEEL	
BLANK OFF MATERIAL	16 GAUGE STEEL	16 GAUGE STEEL	
WHEEL TYPE	HPF-A100	HPF-A100	
DIAMETER	22	22	
WIDTH	65	65	
MAX RPM	3166	3166	
MANUFACTURER	TOSHIBA	TOSHIBA	
MODEL	40A003L12V5210	40A003L12V5210	
HP EACH/TOTAL	3.5/10.5	3.5/10.5	
POLES/RPM	4-POLE/1750	4-POLE/1750	
FRAME/CASING	182T/TEAO	182T/TEAO	
EFFICIENCY	88.5	88.5	
SERVICE FACTOR	1.15	1.15	
SHAFT ISOLATION	CERAMIC BEARINGS	CERAMIC BEARINGS	
FLA EACH/ TOTAL	9/26 AMPS	9/26 AMPS	
MOTOR HP SF	3.0 %	3.0 %	
VOLTAGE/PHASE	240/3	240/3	
ACCESSORIES	ISL,RC,BL,CPLBD, VFD, CP	ISL,RC,BL,CPLBD, VFD, CP	
ABBREVIATIONS: ISL: PROVIDE ISOLATORS RC: REMOVABLE INLET CONE BL: CONTRACTOR SHALL PROVIDE STEEL BLANK OFF AROUND PERIMETER OF FANS CPI: COPLANAR INSULATION BD: BACKDRAFT DAMPERS SF: SAFETY FACTOR VFD: VFD FOR MOTOR CONTROL BY MECHANICAL CONTRACTOR CP: REMOTE MOUNTED CONTROL PANEL WITH NEMA 1 ENCLOSURE, POWDER COAT FINISH, MOTOR STATUS LIGHTS			

ALTERNATE 1: BOILER SCHEDULE			
MARK	B1	B2	
MANUFACTURER	FULTON	FULTON	
MODEL NUMBER	EXE-500	EXE-500	
INPUT	500 MBH	500 MBH	
MIN INPUT FIRE	50 MBH	50 MBH	
OUTPUT	486 MBH	486 MBH	
FLOW	48 GPM	48 GPM	
PRESSURE DROP	0.9 PSI @ 48 GPM	0.9 PSI @ 48 GPM	
DESIGN PRESSURE	160 PSI	160 PSI	
VOLTAGE/PHASE	120/1	120/1	
MCA	12	12	
MOCP	20	20	
ACCESSORIES	YK, CK, PC, LC, PTRV, CC	YK, CK, PC, LC, PTRV, CC	
ABBREVIATIONS: YK: VENT AND INTAKE KIT CK: CONDENSATE NEUTRALIZATION KIT PTRV: PRESSURE TEMPERATURE RELIEF PC: PRIMARY PUMP CONTROL LC: LOW WATER CUTOFF CC: CASCADE CONTROLLER TO CONTROL EACH BOILER, BALANCE RUNTIME AND STAGE AS REQUIRED FOR THE SEQUENCE OF OPERATIONS. CONTROLLER SHALL BE COMPATIBLE WITH SCHNEIDER CONTROLS			

ALTERNATE 3: UV FILTER SCHEDULE			
MARK	UVF1-MZA	UVF1-MZB	
MANUFACTURER	UV RESOURCES	UV RESOURCES	
MODEL NUMBER	RLM-01	RLM-01	
STYLE	COIL DISINFECTON	COIL DISINFECTON	
PLENUM DIMS (INCHES)	51x115	51x115	
COIL DIMS (INCHES)	40x108	40x108	
LAMPS PER ROW	2	2	
NUMBER OF ROWS	2	2	
LAMP LENGTH (INCHES)	61	61	
WATTS PER LAMP	145	145	
TOTAL WATTS	740	740	
LAMP WATTS/ SF OF COIL AREA	19.33	19.33	
SERVICE VOLTAGE	120-277V	120-277V	
ABBREVIATIONS: --			

POINTS LIST:	
• AIP: LOOP TEMPERATURE • AIP: HEATING TEMPERATURE SETPOINT • AOP: BOILER CAPACITY (PERCENTAGE) • BOP: BOILER STATUS • BOP: BOILER ALARM STATUS	
SEQUENCE OF OPERATIONS: UPON A CALL FOR HEATING, BOILER PRIMARY PUMP SHALL ENERGIZE AND, UPON PROOF OF FLOW, BOILER GAS VALVE SHALL OPEN AND SHALL FIRE AND MODULATE POSITION TO MAINTAIN LOOP SETPOINT TEMPERATURE. SETPOINT SHALL BE MODULATED THROUGH THE BAS.	
FACTORY CASCADE CONTROLLER SHALL STAGE SECOND BOILER ON AS REQUIRED TO MAINTAIN LOOP SETPOINT 180°F (ADJUSTABLE) AND SHALL ALTERNATE INITIAL FIRE SEQUENCE SO THAT BOILERS OPERATE IN ALTERNATING LEAD-LAG OPERATION TO MAINTAIN EQUIVALENT RUNTIME ON PRIMARY PUMPS AND BOILERS.	
ALTERNATE 1: BOILER CONTROL SEQUENCE	

POINTS LIST:	
• ALL EXISTING POINTS SHALL REMAIN • AIP: SUPPLY FAN SPEED (EACH FAN) • AIP: SUPPLY FAN START/ STOP • AIP: DUCT DIFFERENTIAL PRESSURE • BIP: SUPPLY FAN STATUS • BOP: UV FILTER ENABLE/DISABLE • BASE BID AIP: MECHANICAL ROOM REFRIGERANT DETECTION DEVICE • BASE BID BOP: REFRIGERANT LEAK ALARM	
SEQUENCE OF OPERATIONS: BASEBID: NEW REFRIGERANT LEAK DETECTION DEVICES SHALL BE PROVIDED IN MECHANICAL ROOM AND SHALL SOUND ALARM, INITIATE ALARM AT BAS, AND SHUT DOWN CONDENSERS UPON DETECTION OF REFRIGERANT LEAK ALTERNATE #2: NEW FAN WALL STEEL PLUG FANS SHALL BE CYCLE TO MAINTAIN DIFFERENTIAL PRESSURE SETPOINT IN SUPPLY AIR DUCT. FANS SEQUENCE SHALL BE OPTIMIZED FOR EFFICIENCY BASED FAN PERFORMANCE. ALTERNATE #3: NEW EVAPORATOR COILS SHALL BE EQUIPPED WITH UV FILTERS. WHEN COOLING COIL IS IN OPERATION, UV LAMPS SHALL ENERGIZE AND SHALL OPERATE CONTINUOUSLY. EXISTING UNIT IS EQUIPPED WITH INTERLOCKED ZONE ACTUATORS THAT DIVERT AIR FLOW BETWEEN COLD, HOT AND NEUTRAL DECKS TO DELIVER REQUIRED AIR TO ASSOCIATED ZONE BASED ON THERMOSTAT SETPOINT. EXISTING ACTUATORS SHALL REMAIN, AND NO NEW WORK IS ASSOCIATED WITH EXISTING ZONE DAMPERS AS PART OF THIS PROJECT SCOPE. EXISTING HOT WATER COIL AND CONTROL VALVES SHALL REMAIN. VALVE OPENS TO MAINTAIN THE DISCHARGE AIR TEMPERATURE IN THE HOT DECK. NO NEW WORK IS ASSOCIATED WITH EXISTING HOT WATER VALVES AS PART OF THIS PROJECT SCOPE.	
MULTIZONE AIR HANDLING UNIT	

POINTS LIST:	
• AIP: COOLING COIL DISCHARGE AIR TEMPERATURE • AIP: SATURATED SUCTION TEMPERATURE • BOP: COMPRESSOR STATUS (EACH OF THREE COMPRESSORS) • BOP: UNIT ALARM STATUS	
SEQUENCE OF OPERATIONS: UPON A CALL FOR COOLING FROM THE MULTIZONE UNIT, EACH REFRIGERANT CIRCUIT SHALL STAGE ON TO PROVIDE 55°F (ADJUSTABLE) SUPPLY AIR DISCHARGE TEMPERATURE FROM EVAPORATER COOLING COIL. PROVIDE TEMPERATURE SENSOR DOWNSTREAM OF COOLING COIL.	
AIR COOLED CONDENSER SEQUENCE	

CONTACT C&C GROUP - BRIAN SCHEPERS FOR CONTROLS SCOPE.
EMAIL - BS@SCHEPERS@C-CGROUP.COM
MOBILE - 573-291-5425

KEYNOTES	
E.1	ALTERNATE 1: CONNECT TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING BOILER.
E.4	ALTERNATE 2: FAN WALL VFD WITH DISCONNECT. VFD SHALL BE FURNISHED BY MECHANICAL CONTRACTOR.
E.5	ALTERNATE 1: BOILER PUMP MOTOR STARTER. PROVIDE NEMA 00, 20A, 240, COMBINATION MOTOR STARTER WITH 30A, 2 POLE DISCONNECT, HAND/OFF/AUTO SELECTOR AND PILOT LIGHTS. COORDINATE COIL VOLTAGE WITH BUILDING MANAGEMENT SYSTEM.
E.9	ALTERNATE 1: WIRE TO NEW 2 POLE 20A CIRCUIT BREAKER IN PANEL PDPA.
E.10	ALTERNATE 1: WIRE BOILER TO EXISTING 20A 1 POLE SPARE CIRCUIT IN EXISTING PANEL LPB.

STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



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UPGRADE/RELOCATE
ROOFTOP UNITS

SPRINGFIELD DOLIR
OFFICE BUILDING

SPRINGFIELD, MO

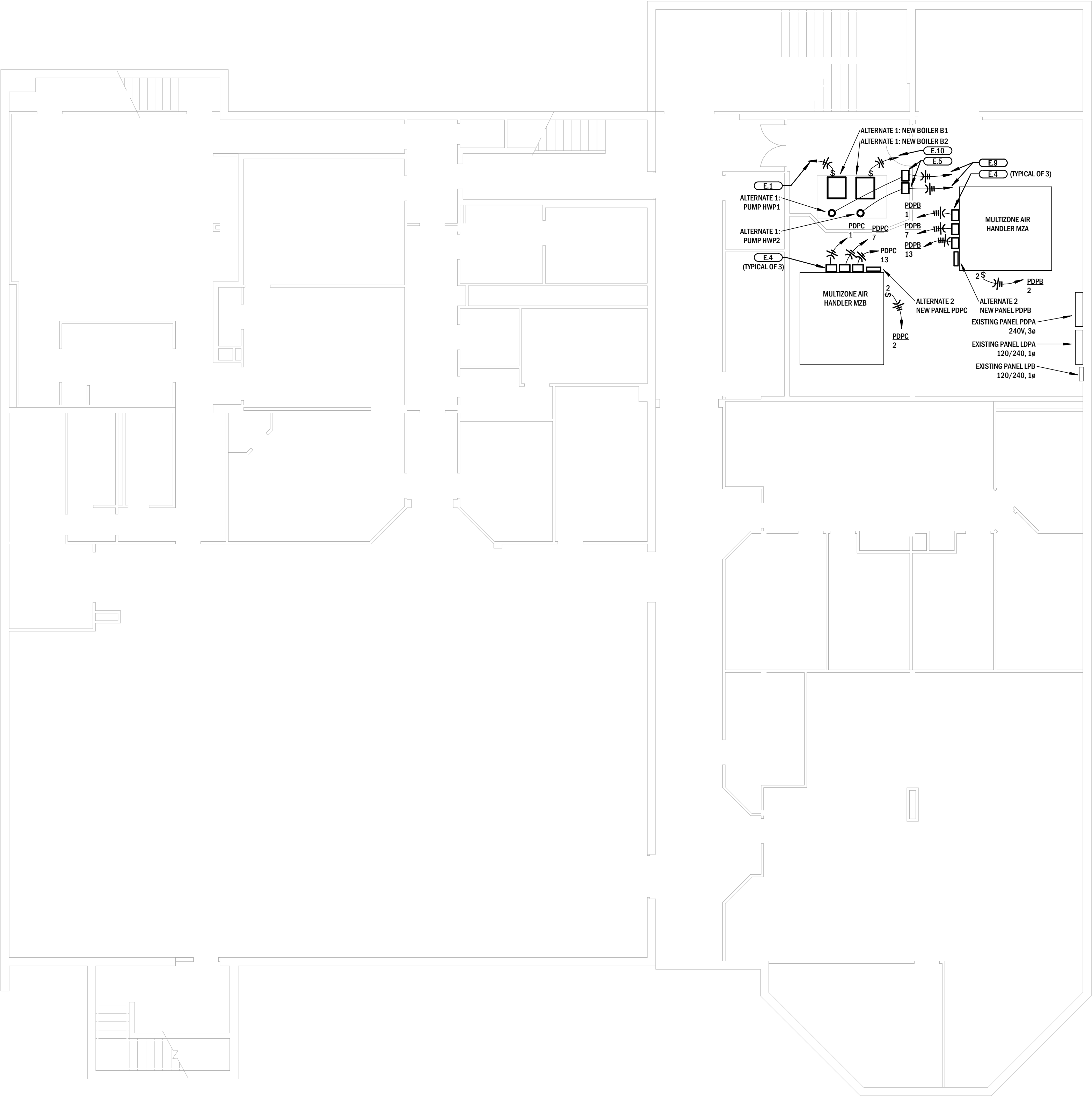
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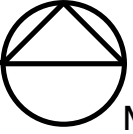
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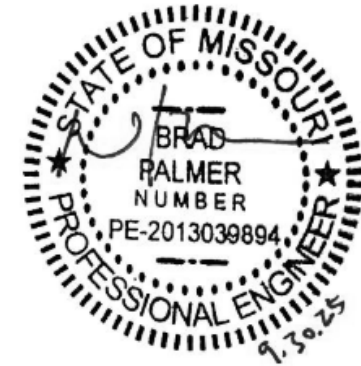
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CHECKED BY: BRP
DESIGNED BY: BRP

SHEET TITLE:
ELECTRICAL
PLAN

SHEET NUMBER:
E100
9 OF 10 SHEETS
9/30/2025



1 BASEMENT ELECTRICAL PLAN
Scale: 1/8" = 1'-0" 



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UPGRADE/RELOCATE
ROOFTOP UNITS

SPRINGFIELD DOLIR
OFFICE BUILDING

SPRINGFIELD, MO

PROJECT# 02516-01
SITE # 1032
FACILITY # 3101032001

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E200
DRAWN BY: BRP
CHECKED BY: BRP
DESIGNED BY: BRP

SHEET TITLE:
ELECTRICAL
SCHEDULES AND
DETAILS

SHEET NUMBER:
E200
10 OF 10 SHEETS
9/30/2025

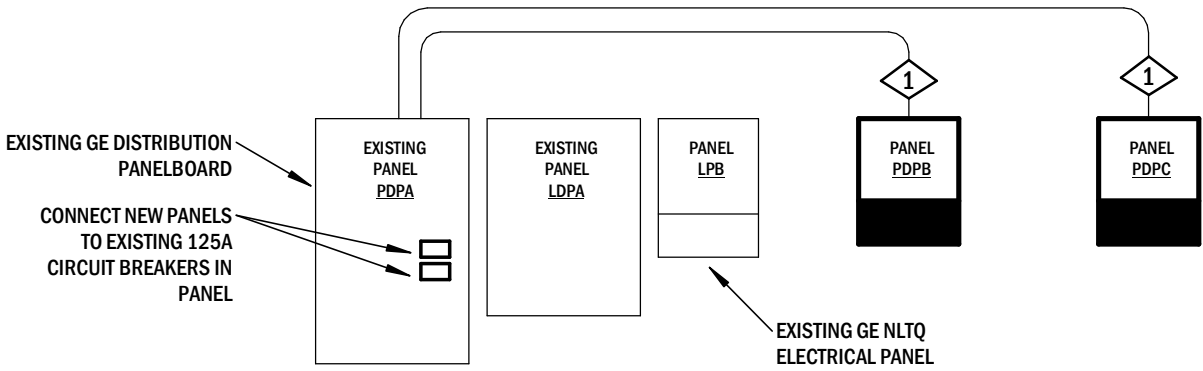
ELECTRICAL SYMBOLS	
FOR LIGHT SWITCH TYPES SEE LIGHTING CONTROL SCHEDULE.	
	120V, 20A DUPLEX RECEPTACLE
	DEVICE MOUNTED IN FLOOR BOX. REFERENCE SPECIFICATIONS
	DEVICE MOUNTED IN BOX AT CEILING OR IN STRUCTURE
NEMA	VOLTAGE AND AMPERAGE CORRESPONDING TO NEMA NUMBER SHOWN
AC	DEVICE INSTALLED ABOVE COUNTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
WP	WEATHER PROOF WHILE IN USE COVER AND GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
TP	TAMPER PROOF RECEPTACLE
4	120, 20A QUADPLEX RECEPTACLE
U	120, 20A DUPLEX RECEPTACLE WITH USB CHARGING
	DATA DEVICE
	CONCEALED SERVICE FLOOR BOX WITH DEVICE SHOWN
S	SURFACE SERVICE FLOOR BOX WITH DEVICE SHOWN
P	FIRE RATED POKE THROUGH, SURFACE SERVICE FLOOR BOX WITH DEVICE SHOWN
	FIRE ALARM VISUAL STROBE
	FIRE ALARM AUDIBLE VISUAL SPEAKER STROBE
	REMOTE FIRE ALARM ANNUNCIATOR
	MAIN FIRE ALARM PANEL
	MAGNETIC DOOR HOLD OPEN
	FIRE ALARM MANUAL PULL STATION
	SMOKE DETECTOR
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	OCCUPANCY SENSOR LIGHTING CONTROL POWER PACK
	ROUGH-IN FOR WALL MOUNT THERMOSTAT. COORDINATE WITH MECHANICAL DRAWINGS
	DISCONNECT SWITCH
	TIMESWITCH. SEE SCHEDULE FOR SPECIFICATIONS.
	PHOTOCELL
	LIGHTING CONTACTOR
	EMERGENCY LIGHT. WALL MOUNTED WHEN SHOWN TOUCHING WALL
	PENDANT LIGHT FIXTURE. SIZES VARY
	RECESSED CAN LIGHT
	SURFACE MOUNT OR SUSPENDED LINEAR FIXTURE
	RECESSED LINEAR FIXTURE
	INDICATES NIGHT LIGHT FIXTURE
	OVERHEAD ELECTRICAL CONDUCTOR
	UNDERGROUND ELECTRICAL CONDUCTOR
	COMMUNICATIONS CONDUIT/CABLING
	HOMERUN. NEW RACEWAY AND WIRING TO DESIGNATED PANEL. PROVIDE QUANTITY AND SIZE OF WIRING AS REQUIRED FOR CIRCUIT BREAKER AND DESIGNATED IN PANEL SCHEDULE.
	NEW RACEWAY AND WIRING FOR ELECTRICAL DEVICE TERMINATED AS NOTED. PROVIDE QUANTITY AND SIZE OF WIRING AS REQUIRED FOR CONNECTED ELECTRICAL DEVICE AND OCPD.
ABBREVIATIONS	
60"	DIMENSIONS NEXT TO ANY SYMBOL OR FIXTURE INDICATES MOUNTING HEIGHT TO CENTERLINE OF DEVICE
AC	ABOVE COUNTER
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASC	AVAILABLE SHORT CIRCUIT CURRENT
GFCI	GROUND FAULT CURRENT INTERRUPTER
OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
(TIE)	REPRESENTS PARTIAL HOMERUN WITH REST OF CONNECTED DEVICES LOCATED ELSEWHERE ON PLANS
OCPD	OVERCURRENT PROTECTIVE DEVICE

FEEDER SCHEDULE	
1	3-#1 AND 1-#6 GROUND IN 1.5" CONDUIT

ALTERNATE 2

CIRCUIT BREAKER PANEL SCHEDULE														
CKT NO	LOAD DESCRIPTION	C/B AMPS	WIRE SIZE	C/B ACC	LOAD (VA)	A	B	C	LOAD (VA)	C/B ACC	WIRE SIZE	C/B AMPS	LOAD DESCRIPTION	CKT NO
1	FAN WALL FAN 1	20	12		1080	1460			380		12	20	UV FILTERS	2
3	//	3	12		1080		1460		380		12	2	//	4
5	//	3	12		1080			1080				20	SPARE	6
7	FAN WAL FAN 2	20	12		1080	1080						20	SPARE	8
9	//	3	12		1080		1080					20	SPARE	10
11	//	3	12		1080			1080				20	SPARE	12
13	FAN WALL FAN 3	20	12		1080	1080						20	SPARE	14
15	//	3	12		1080		1080					20	SPARE	16
17	//	3	12		1080			1080				20	SPARE	18
						3620	3620	3240						
	AIC RATING	10000											PDPC	
	VOLTAGE	120/240												
	PHASE	3												
	AMPERAGE	125										30	MAXIMUM AMPS	
	MAIN CIRCUIT BREAKER	MLO												
	POLES	18												
	ENCLOSURE	NEMA 1												
	PANEL TYPE	NGOD												

CIRCUIT BREAKER PANEL SCHEDULE															
CKT NO	LOAD DESCRIPTION	C/B AMPS	WIRE SIZE	C/B ACC	LOAD (VA)	A	B	C	LOAD (VA)	C/B ACC	WIRE SIZE	C/B AMPS	LOAD DESCRIPTION	CKT NO	
1	FAN WALL FAN 1	20	12		1080	1460			380		12	20	UV FILTERS	2	
3	//	3	12		1080		1460		380		12	2	//	4	
5	//	3	12		1080			1080				20	SPARE	6	
7	FAN WAL FAN 2	20	12		1080	1080						20	SPARE	8	
9	//	3	12		1080		1080					20	SPARE	10	
11	//	3	12		1080			1080				20	SPARE	12	
13	FAN WALL FAN 3	20	12		1080	1080						20	SPARE	14	
15	//	3	12		1080		1080					20	SPARE	16	
17	//	3	12		1080			1080				20	SPARE	18	
						3620	3620	3240							
		AIC RATING	10000										PDPB		
		VOLTAGE	120/240												
		PHASE	3												
		AMPERAGE	125									30	MAXIMUM AMPS		
		MAIN CIRCUIT BREAKER	MLO												
		POLES	18												
		ENCLOSURE	NEMA 1												
		PANEL TYPE	NGOD												



1 ELECTRICAL RISER DIAGRAM
Scale: NTS