

# REPLACE DOMESTIC & HEATING LOOP, INFRASTRUCTURE SOUTHEAST CORRECTIONAL CENTER CHARLESTON, MISSOURI

**MCCLURE ENGINEERING**

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Missouri State Certificate of Authority #000087

OWNER: STATE OF MISSOURI  
MIKE KEHOE,  
GOVERNOR  
  
DEPARTMENT OF  
CORRECTIONS

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

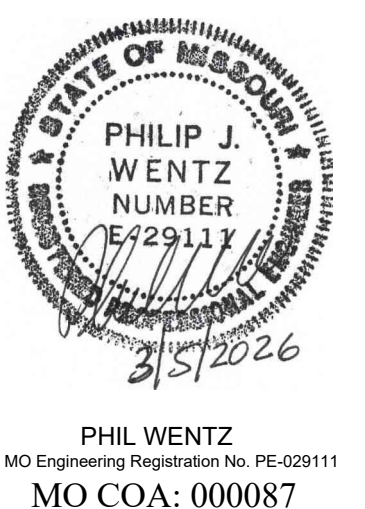
**SHEET LIST**

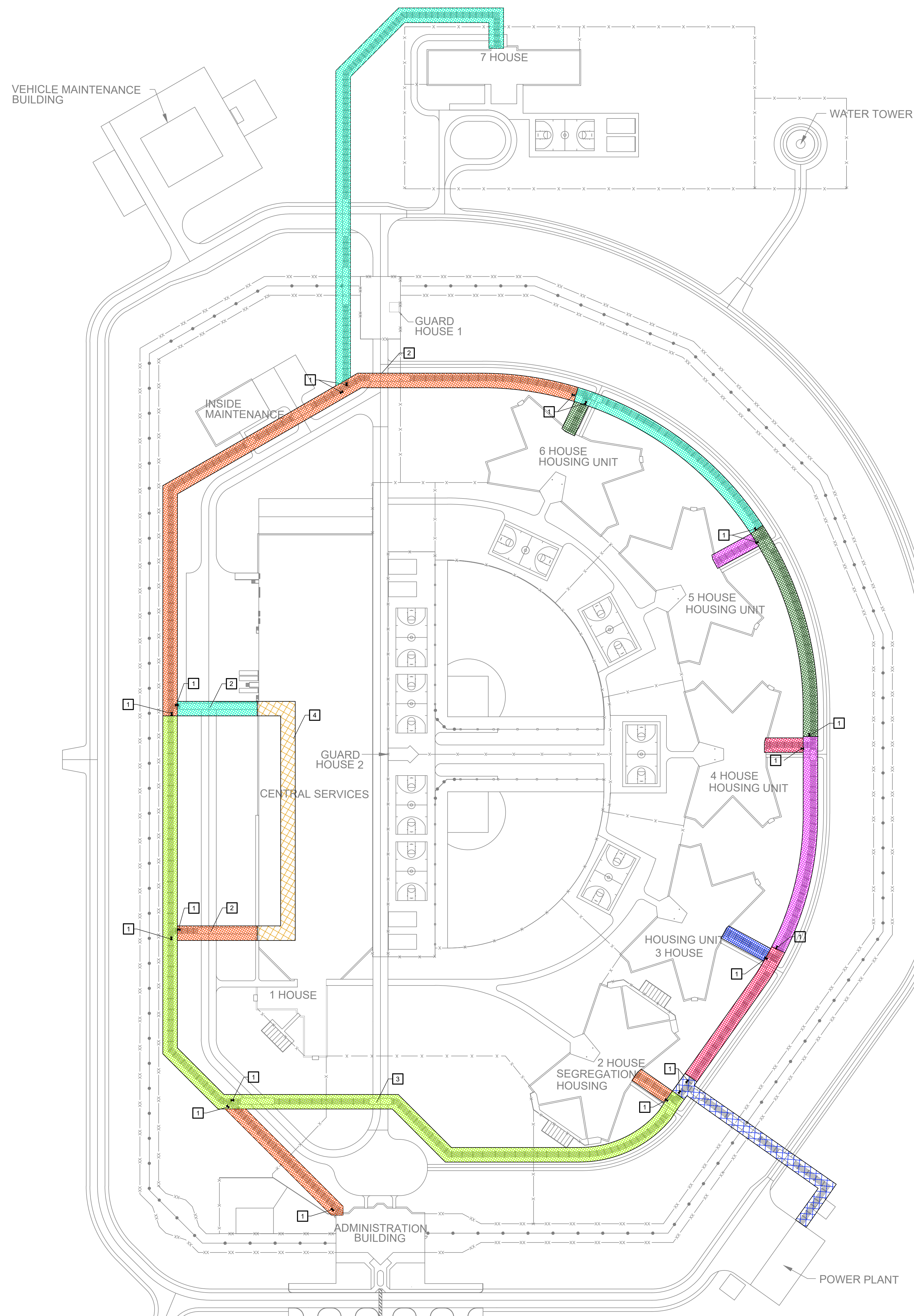
GENERAL	
G-001	COVER SHEET TEST
G-101	PHASING PLAN
MECHANICAL	
M-001	MECHANICAL & PLUMBING SYMBOLS & ABBREVIATIONS
M-111	SITE PLAN
M-112	PARTIAL SITE PLAN AREA A
M-113	PARTIAL SITE PLAN AREA B
M-114	PARTIAL SITE PLAN AREA C
M-115	PARTIAL SITE PLAN AREA D
M-116	PARTIAL SITE PLAN AREA E
M-117	PARTIAL SITE PLAN AREA F
M-120	POWERPLANT PIPING PLAN
M-123	CENTRAL SERVICES MECHANICAL CATWALK PLAN
M-411	TYPICAL HOUSING UNIT 2-6 ENLARGED MECHANICAL ROOM PLANS
M-412	ADMINISTRATION ENLARGED MECHANICAL ROOM PLANS
M-413	CENTRAL SERVICES ENLARGED MECHANICAL ROOM PLANS
M-414	HOUSING UNIT 7 ENLARGED MECHANICAL ROOM PLANS
M-501	DETAILS
M-502	DETAILS
M-503	DETAILS
M-601	SCHEDULES
ELECTRICAL	
E-001	ELECTRICAL ONE-LINES, SYMBOLS, ABBREVIATIONS, AND DETAILS
E-301	HOUSING UNIT 7 & CENTRAL SERVICES ELECTRICAL DEMO & NEW WORK
E-302	UNITS H2-H6 TYPICAL MECHANICAL ROOM ELECTRICAL DEMO & NEW WORK
E-303	ADMINISTRATION MECHANICAL ROOM ELECTRICAL DEMO & NEW WORK

DESIGNER: MCCLURE ENGINEERING

PROJECT NUMBER: C2516-01

SITE NUMBER: 7020  
FACILITY NUMBER: 9327020029





- PHASE 0**  
 WORK IN THIS PHASE CAN OCCUR AT ANY POINT PRIOR TO DEMOLITION ON PIPES LEADING FROM UTILITY LOOP TO CENTRAL SERVICES BUILDING IN PHASE 1C
- NEW WORK:**
- INSTALL TEMPORARY DOMESTIC HOT WATER SUPPLY & RECIRCULATION PIPES BETWEEN NORTH AND SOUTH CENTRAL SERVICES MECHANICAL ROOMS. COORDINATE WITH OWNER ANY WORK IN AREAS ACCESSIBLE BY PRISONERS.
- PHASE 1A**  
 DEMOLITION WORK:
- DEMOLISH DHWR PIPE FROM POWER PLANT TO UTILITY LOOP.
- NEW WORK:**
- INSTALL NEW DHW PIPE FROM POWER PLANT TO UTILITY LOOP. INSTALL VALVES AND TEMPORARY CAPS ON BOTH SIDES OF TEE ALONG UTILITY LOOP FOR CONNECTION OF FUTURE PHASES.
- PHASE 1B**  
 NEW WORK:
- CONNECT NEW DHW PIPE TO EXISTING DHW PIPE WITH TEMPORARY PIPING AND VALVES AT UTILITY LOOP.
  - CONNECT NEW DHW PIPE TO EXISTING DHW PIPE WITHIN POWER PLANT.
- DEMOLITION WORK:**
- DEMOLISH DHW PIPE FROM NEW DHW PIPE CONNECTION IN POWER PLANT TO UTILITY LOOP.
- PHASE 1C**  
 DEMOLITION WORK:
- DEMOLISH DHWR PIPE FROM MAIN CONNECTION AT UTILITY LOOP TO CENTRAL SERVICES NORTH MECHANICAL ROOM TAKEOFF.
- NEW WORK:**
- INSTALL NEW DHWR PIPE FROM POWER PLANT TO UTILITY LOOP. INSTALL VALVES AND TEMPORARY CAPS ON BOTH SIDES OF TEE ALONG UTILITY LOOP FOR CONNECTION OF FUTURE PHASES.
  - EXTEND NEW DHW & DHWR PIPE TO CENTRAL SERVICES NORTH MECHANICAL ROOM TAKEOFF. INSTALL VALVES AND TEMPORARY CAPS FOR CONNECTION OF FUTURE PHASES.
  - CONNECT NEW DHWR PIPE TO EXISTING DHWR PIPE WITH TEMPORARY PIPING AND VALVES AT UTILITY LOOP.
- PHASE 2**  
 DEMOLITION WORK:
- DEMOLISH DHW & DHWR PIPES FROM UTILITY LOOP TO HOUSING UNIT 2.
  - DEMOLISH DHW & DHWR PIPES FROM UTILITY LOOP TO ADMINISTRATION BUILDING.
  - DEMOLISH DHW & DHWR PIPES FROM UTILITY LOOP TO CENTRAL SERVICES SOUTH.
  - DEMOLISH DHWR PIPE FROM CENTRAL SERVICES NORTH TO HOUSING UNIT 6.
  - ELECTRICAL DEMO ADMINISTRATION BUILDING.
  - ELECTRICAL DEMO CENTRAL SERVICES SOUTH.
- NEW WORK:**
- INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN HOUSING UNIT 2.
  - INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN ADMINISTRATION BUILDING.
  - INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN CENTRAL SERVICES SOUTH.
  - EXTEND NEW DHW & DHWR PIPE TO HOUSING UNIT 6 TAKEOFF. INSTALL VALVES AND TEMPORARY CAPS FOR CONNECTION OF FUTURE PHASES. RELOCATE TEMPORARY CAP FROM PREVIOUS PHASE.
  - ELECTRICAL NEW WORK HOUSING UNIT 2.
  - ELECTRICAL NEW WORK ADMINISTRATION BUILDING.
  - ELECTRICAL NEW WORK CENTRAL SERVICES SOUTH.
- PHASE 3**  
 DEMOLITION WORK:
- DEMOLISH DHW & DHWR PIPES FROM LOOP TO CENTRAL SERVICES NORTH.
  - DEMOLISH DHW & DHWR PIPES FROM UTILITY LOOP TO HOUSING UNIT 7.
  - DEMOLISH DHWR PIPE FROM HOUSING UNIT 6 TO HOUSING UNIT 5.
  - ELECTRICAL DEMO HOUSING UNIT 7.
  - ELECTRICAL DEMO CENTRAL SERVICES NORTH.
- NEW WORK:**
- INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN HOUSING UNIT 7.
  - INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN CENTRAL SERVICES NORTH.
  - EXTEND NEW DHW & DHWR PIPE TO HOUSING UNIT 5 TAKEOFF. INSTALL VALVES AND TEMPORARY CAPS FOR CONNECTION OF FUTURE PHASES. RELOCATE TEMPORARY CAP FROM PREVIOUS PHASE.
  - ELECTRICAL NEW WORK HOUSING UNIT 7.
  - ELECTRICAL NEW WORK CENTRAL SERVICES NORTH.
- PHASE 4**  
 DEMOLITION WORK:
- DEMOLISH DHW & DHWR PIPES FROM LOOP TO HOUSING UNIT 6.
  - DEMOLISH DHWR PIPE FROM HOUSING UNIT 5 TO HOUSING UNIT 4.
  - ELECTRICAL DEMO HOUSING UNIT 6.
- NEW WORK:**
- INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN HOUSING UNIT 6.
  - EXTEND NEW DHW & DHWR PIPE TO HOUSING UNIT 4 TAKEOFF. INSTALL VALVES AND TEMPORARY CAPS FOR CONNECTION OF FUTURE PHASES. RELOCATE TEMPORARY CAP FROM PREVIOUS PHASE.
  - ELECTRICAL NEW WORK HOUSING UNIT 6.
- PHASE 5**  
 DEMOLITION WORK:
- DEMOLISH DHW & DHWR PIPES FROM LOOP TO HOUSING UNIT 5.
  - DEMOLISH DHWR PIPE FROM HOUSING UNIT 4 TO HOUSING UNIT 3.
  - ELECTRICAL DEMO HOUSING UNIT 5.
- NEW WORK:**
- INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN HOUSING UNIT 5.
  - EXTEND NEW DHW & DHWR PIPE TO HOUSING UNIT 3 TAKEOFF. INSTALL VALVES AND TEMPORARY CAPS FOR CONNECTION OF FUTURE PHASES. RELOCATE TEMPORARY CAP FROM PREVIOUS PHASE.
  - ELECTRICAL NEW WORK HOUSING UNIT 5.
- PHASE 6**  
 DEMOLITION WORK:
- DEMOLISH DHW & DHWR PIPES FROM LOOP TO HOUSING UNIT 4.
  - DEMOLISH DHWR PIPE FROM HOUSING UNIT 3 TO HOUSING UNIT 2.
  - ELECTRICAL DEMO HOUSING UNIT 4.
- NEW WORK:**
- INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN HOUSING UNIT 4.
  - EXTEND NEW DHW & DHWR PIPE TO POWER PLANT LOOP CONNECTION.
  - ELECTRICAL NEW WORK HOUSING UNIT 4.
- PHASE 7**  
 DEMOLITION WORK:
- DEMOLISH DHW & DHWR PIPES FROM LOOP TO HOUSING UNIT 3.
  - ELECTRICAL DEMO HOUSING UNIT 3.
- NEW WORK:**
- INSTALL DHW & DHWR PIPING FROM LOOP TO MIXING VALVE / RECIRC PUMP IN HOUSING UNIT 3.
  - ELECTRICAL NEW WORK HOUSING UNIT 3.
- PHASE 8**  
 DEMOLISH ORIGINAL DHW LOOP PIPING. REMOVE TEMPORARY PIPING AT CONNECTION FROM POWER PLANT TO UTILITY LOOP.

- KEYED NOTES**
- PROVIDE ISOLATION VALVES ON DHW & DHWR LINES.
  - DURING DEMOLITION/CONSTRUCTION MAINTAIN 11'-0" WIDE ROADWAY ACROSS TRENCH IN THIS AREA TO ALLOW VEHICLE ACCESS ALONG ROADWAY. COORDINATE TRENCH COVER REMOVAL WITH OWNER.
  - DURING DEMOLITION/CONSTRUCTION MAINTAIN 6'-0" WIDE WALKWAY ACROSS TRENCH IN THIS TO ALLOW PEDESTRIAN ACCESS ACROSS TRENCH. COORDINATE TRENCH COVER REMOVAL WITH OWNER.
  - CONNECT CENTRAL SERVICES NORTH AND SOUTH MECHANICAL ROOMS WITH TEMPORARY DHW AND DHWR PIPING.

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 5/2026  
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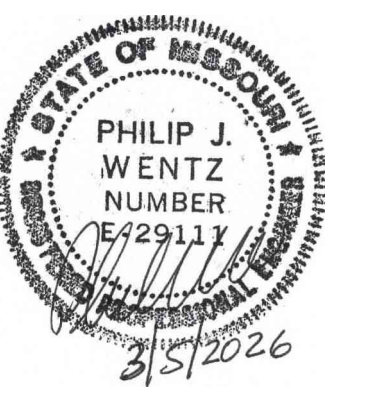
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 DESIGNED BY: CCW

SHEET TITLE:  
 PHASING PLAN

SHEET NUMBER:  
 G-101  
 2 OF 24 SHEETS  
 03/05/2026

N  
**PHASING PLAN**  
 1" = 80'-0"

S:\075114.000 CHARLESTON RPLC DOM WATER LOOP & HOT WTR\03 MECHANICAL\G-101-075114.000.dwg 2026-3-6 09:28 Resallwasser



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## PLUMBING

AD	AREA DRAIN	V	VENT		
AP	ACCESS PANEL	VTR	VENT THROUGH ROOF		
AW	ACID WASTE	W	WASTE		
AV	ACID VENT	WC	WATER CLOSET		
BV	BALANCE VALVE	WCO	WALL CLEANOUT		
BPV	BACK PRESSURE VALVE	WF	WASH FOUNTAIN		
CB	CATCH BASIN	WH	WALL HYDRANT		
CFS	CUBIC FEET PER SECOND	WM	WATER MAIN		
CO	CLEANOUT	YCO	YARD CLEANOUT		
CUSP	CUSPIDORS	YD	YARD DRAIN		
CHV	CHECK VALVE				
DCW	DOMESTIC COLD WATER				
DF	DRINKING FOUNTAIN				
DHW	DOMESTIC HOT WATER				
DHWR	DOMESTIC HOT WATER RETURN				
DI	DEIONIZED WATER				
DN	DOWN				
DS	DOWNSPOUT				
DSS	DOWNSPOUT SHOE				
DV	DRAIN VALVE				
DWH	DOMESTIC WATER HEATER				
ET	EXPANSION TANK				
EW	EYE WASH SYSTEM				
EWC	ELECTRIC WATER COOLER				
EX	EXISTING PIPING OR EQUIPMENT				
F	FLANGE CONNECTION				
FCO	FLOOR CLEANOUT				
FD	FLOOR DRAIN				
FS	FLOOR SINK				
GA	GAUGE				
GC	GAUGE COCK				
HB	HOSE BIBB				
HD	HUB DRAIN				
IDW	INDIRECT WASTE				
INV	INVERT				
L	LAVATORY				
LV	LOOP VENT				
MH	MANHOLE				
MSB	MOP SERVICE BASIN				
NPC	NON-POTABLE COLD WATER				
NPH	NON-POTABLE HOT WATER				
NPHC	NON-POTABLE HOT WATER CIRCULATING				
OD	OVER FLOW DRAIN				
ODS	OVER FLOW DRAIN SYSTEM				
OFN	OVER FLOW NOZZLE				
PRV	PRESSURE REDUCING VALVE				
PW	PURE WATER				
RD	ROUGH-IN				
RI	ROUGH-IN (ONLY)				
RI & C	ROUGH-IN AND CONNECT				
RPBP	REDUCE PRESSURE BACKFLOW PREVENTER				
RO	REVERSE OSMOSIS WATER				
S	SOIL				
SAN	SANITARY SEWER				
SBD	SHOWER BASINS AND DRAIN				
SCW	SOFT COLD WATER				
SD	SHOWER DRAIN				
SH	SHOWER HEAD				
SS	SERVICE SINK				
SSD	SUBSOIL DRAIN				
ST	STORM SEWER				
SV	SERVICE VALVE				
TD	TRENCH DRAIN				
TH	THERMOMETER				
TT	TEST TEE				
TW	TEPID WATER				
U	UNION				
UR	URINAL				

SAN	→	SANITARY SEWER (SOIL, WASTE)
ST	→	STORM SEWER, SLOPE IN DIRECTION OF ARROW (SEE PLANS FOR % OF SLOPE)
	---	VARIOUS SYSTEM TYPE, IF NOT SHOWN
V	---	VENT
SSD	→	SUBSOIL DRAIN
DCW	---	DOMESTIC COLD WATER
SCW	---	SOFT COLD WATER
DHW	---	DOMESTIC HOT WATER
DHWR	---	DOMESTIC HOT WATER RETURN
WM	---	WATER MAIN (OUTSIDE OF BUILDING)
	RV TPV	TEMPERATURE & PRESSURE RELIEF VALVE
UP	○	PIPE LINE, TURN UP
DN	○	PIPE LINE, TURN DOWN
BV	⋈	BALANCE VALVE
CHV	⋈	CHECK VALVE
DV	⋈	DRAIN VALVE
	GA DV GC	GAUGE AND GAUGE COCK
BPV	⋈	BACK PRESSURE VALVE
PRV	⋈	PRESSURE REDUCING VALVE
RPBP	⋈	REDUCED PRESSURE BACKFLOW PREVENTER
SV	⋈	SERVICE VALVE
TH	⋈	THERMOMETER
U	⋈	UNION
	⋈	CONCENTRIC REDUCER
	⋈	ECCENTRIC REDUCER (BOTTOM & TOP LEVEL)
PA	⋈	PIPE ANCHOR
PG	⋈	PIPE GUIDE
	⋈	PIPING WITH HEAT TRACING
PFC	⋈	PIPE FLEXIBLE CONNECTOR
	⋈	CONNECT TO EXISTING EQUIPMENT, SYMBOL
	⋈	KEYED NOTE DESIGNATION
	---	EXISTING PIPING OR EQUIPMENT TO REMAIN
	---	EXISTING PIPING OR EQUIPMENT TO BE REMOVED
	---	NEW PIPING OR EQUIPMENT
	REF	TYPE OF EQUIPMENT
	17	EQUIPMENT DESIGNATION
		NUMBER OF EQUIPMENT
	A	SECTION REFERENCE
	MT.1	SECTION DESIGNATION
		SHEET WHERE SECTION IS SHOWN

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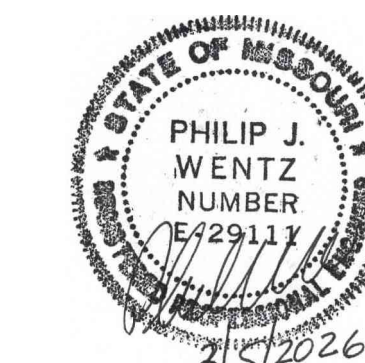
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SHEET TITLE:  
MECHANICAL &  
PLUMBING  
SYMBOLS &  
ABBREVIATIONS

SHEET NUMBER:

M-001

3 OF 24 SHEETS  
03/05/2026



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STRUCTURAL ENGINEER:

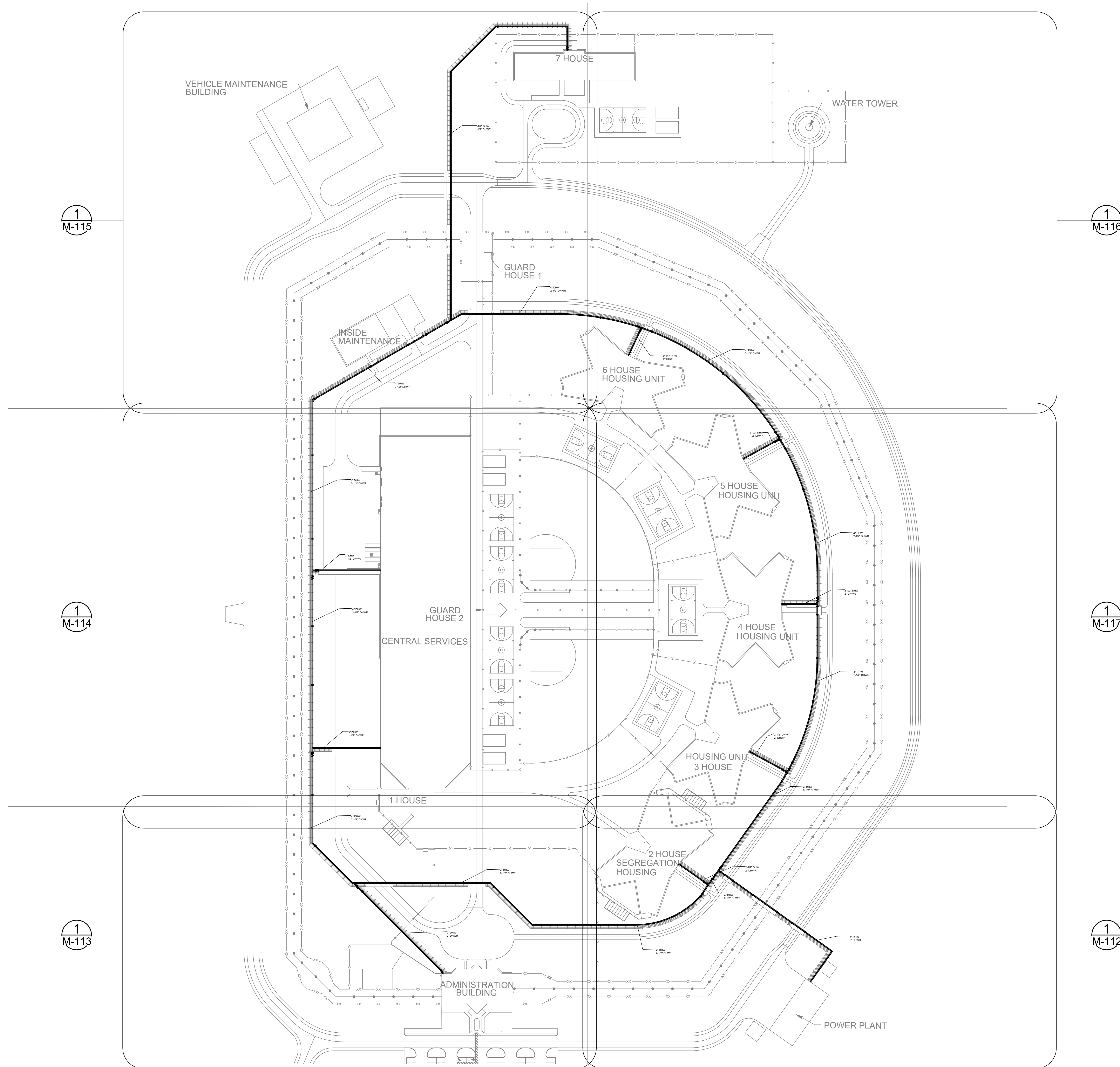
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GENERAL NOTES

- REFER TO PARTIAL PLANS FOR KEYNOTES



1  
M-115

1  
M-116

1  
M-114

1  
M-117

1  
M-113

1  
M-112

N  
**SITE PLAN**  
1" = 80'

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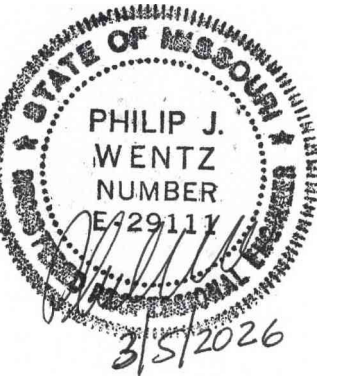
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**SITE PLAN**

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**M-111**

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SHEET TITLE:  
PARTIAL SITE PLAN  
AREA A

SHEET NUMBER:

**M-112**

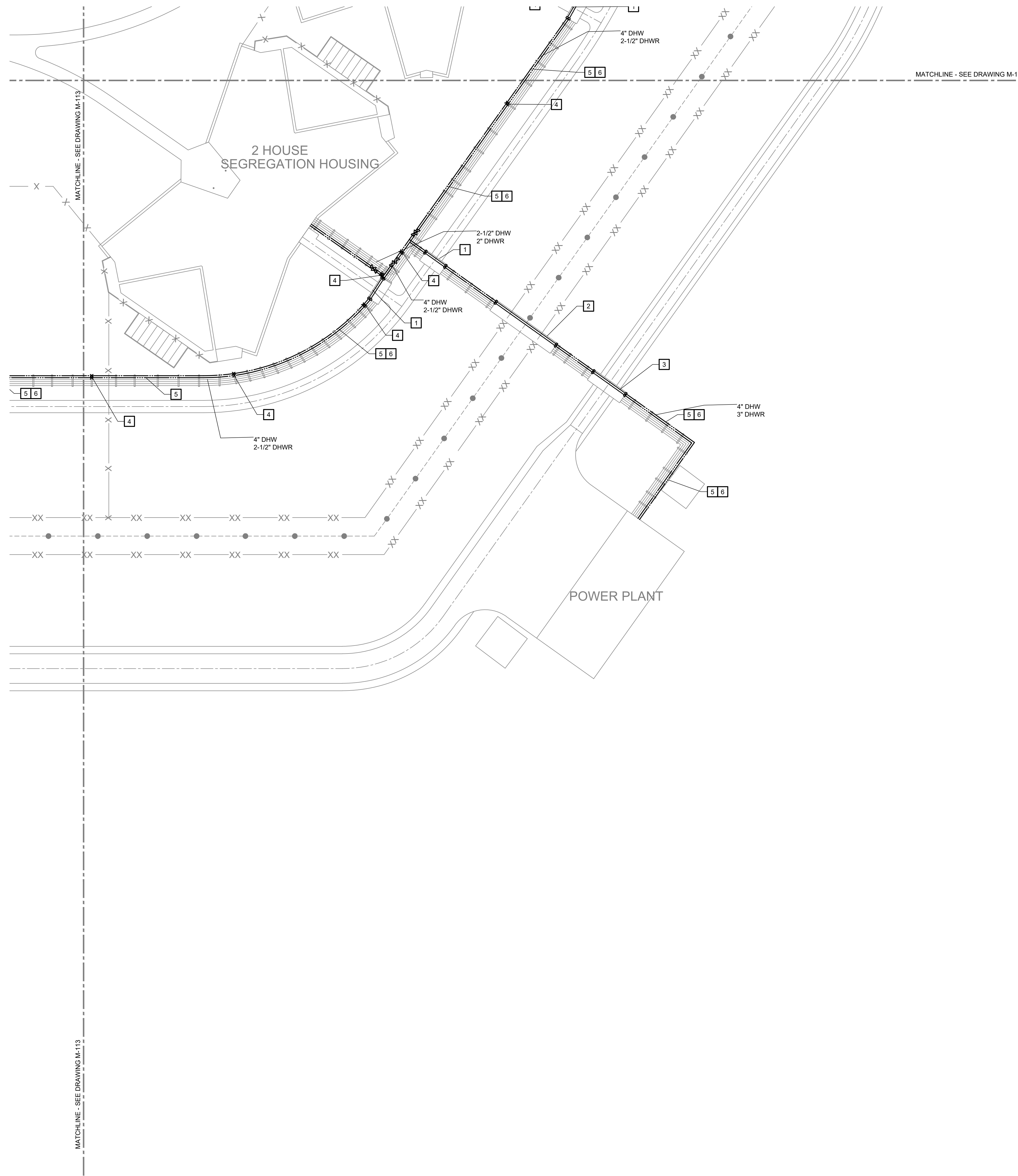
5 OF 24 SHEETS  
03/05/2026

**GENERAL NOTES**

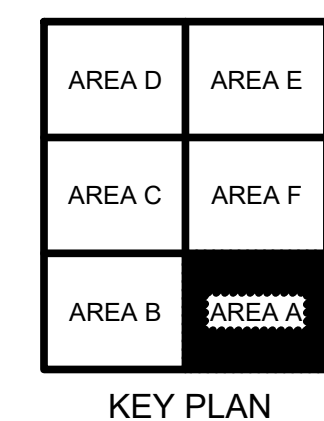
1. REUSE EXISTING PIPE ROLLERS FOR DHWR PIPING. REPLACE DAMAGED OR MISSING PIPE ROLLERS AS REQUIRED.
2. BID ALTERNATE #2: REPLACE (50) 6" GROOVED HEATING WATER COUPLERS (LOCATIONS DETERMINED BY OWNER) INSULATE PIPE WITH 2" POLYURETHANE SECURE WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS.

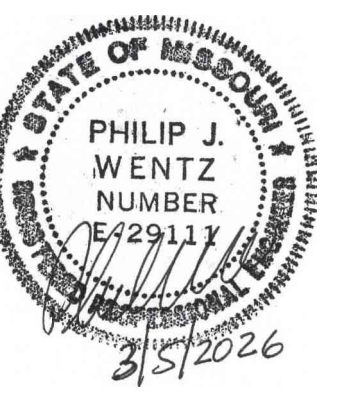
**KEYED NOTES**

1. PIPING IN TRENCH UNDER ACCESS PATH WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 201X ON SHEET M-503.
2. PIPING IN TRENCH UNDER SECURITY FENCE WITH REMOVABLE CONCRETE PLANK SYSTEM AND SUBGRADE WALL PENETRATION. REFER TO DETAIL 204X ON SHEET M-503.
3. PIPING IN TRENCH UNDER ROADWAY WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 202X ON SHEET M-503.
4. INSTALL NEW PIPE ANCHORS FOR DHW PIPE. REUSE PIPE ANCHORS WHERE POSSIBLE FOR DHWR PIPE.
5. INSTALL NEW PIPE EXPANSION LOOP ON DHW & DHWR LINES. REUSE EXISTING PIPE GUIDES ON DHWR LINE. INSTALL NEW PIPE GUIDE ON DHW LINE NEXT TO EXISTING PIPE GUIDES. INSTALL 2" POLYURETHANE INSULATION KIT WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS. REFER TO DETAIL ON M-501.
6. BID ALTERNATE #1: ON THE HEATING WATER PIPING REPLACE EXISTING INLINE GROOVED EXPANSION JOINTS WITH NEW GROOVED U-SHAPE EXPANSION LOOP. SEE SHEET M-501 FOR EXPANSION JOINT AND SUPPORT DETAILS.



N  
**PARTIAL SITE PLAN - AREA A**  
1" = 40'-0"





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SHEET TITLE:  
PARTIAL SITE PLAN  
AREA B

SHEET NUMBER:

**M-113**

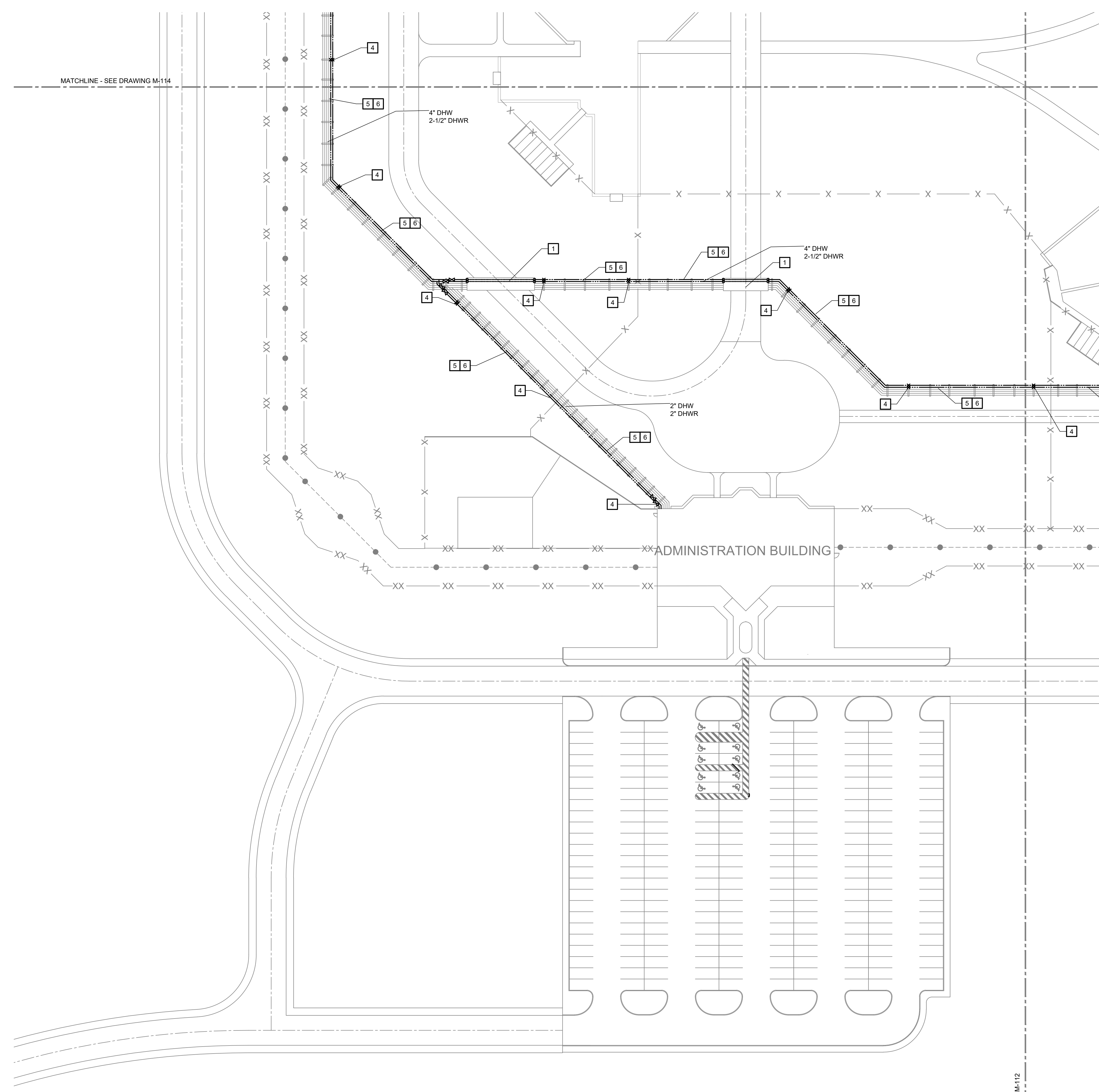
6 OF 24 SHEETS  
03/05/2026

**GENERAL NOTES**

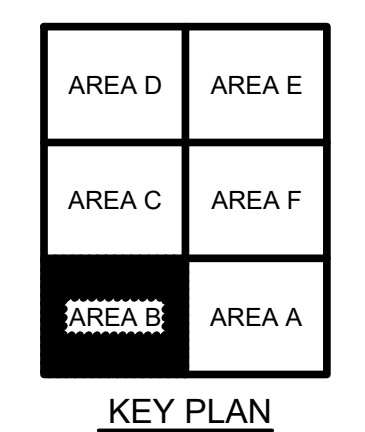
1. REUSE EXISTING PIPE ROLLERS FOR DHWR PIPING. REPLACE DAMAGED OR MISSING PIPE ROLLERS AS REQUIRED.
2. BID ALTERNATE #2: REPLACE (50) 6" GROOVED HEATING WATER COUPLERS (LOCATIONS DETERMINED BY OWNER) INSULATE PIPE WITH 2" POLYURETHANE SECURE WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS.

**KEYED NOTES**

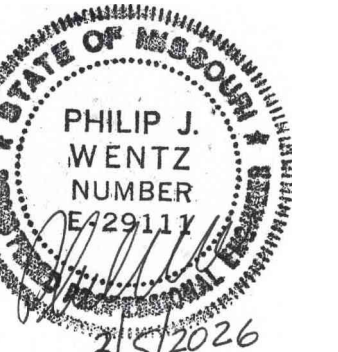
1. PIPING IN TRENCH UNDER ROADWAY WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 202X ON SHEET M-503.
2. NOT USED.
3. NOT USED.
4. INSTALL NEW PIPE ANCHORS FOR DHW PIPE. REUSE PIPE ANCHORS WHERE POSSIBLE FOR DHWR PIPE.
5. INSTALL NEW PIPE EXPANSION LOOP ON DHW & DHWR LINES. REUSE EXISTING PIPE GUIDES ON DHWR LINE. INSTALL NEW PIPE GUIDE ON DHW LINE NEXT TO EXISTING PIPE GUIDES. INSTALL 2" POLYURETHANE INSULATION KIT WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS. REFER TO DETAIL ON M-501.
6. BID ALTERNATE #1: ON THE HEATING WATER PIPING REPLACE EXISTING IN-LINE GROOVED EXPANSION JOINTS WITH NEW GROOVED U-SHAPE EXPANSION LOOP. SEE SHEET M-501 FOR EXPANSION JOINT AND SUPPORT DETAILS.



**PARTIAL SITE PLAN - AREA B**  
1" = 40'-0"



S:\075114.000 CHARLESTON RPLC DOM WATER LOOP & HOT WTR\03 MECHANICAL\M-111-M117-075114.000.dwg 2026-3-6 09:28 Rsallwasser



PHILIP J. WENTZ  
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MO COA: 000087

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CORRECTIONS

REPLACE DOMESTIC &  
HEATING LOOP,  
INFRASTRUCTURE  
SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
PARTIAL SITE PLAN  
AREA C

SHEET NUMBER:

**M-114**

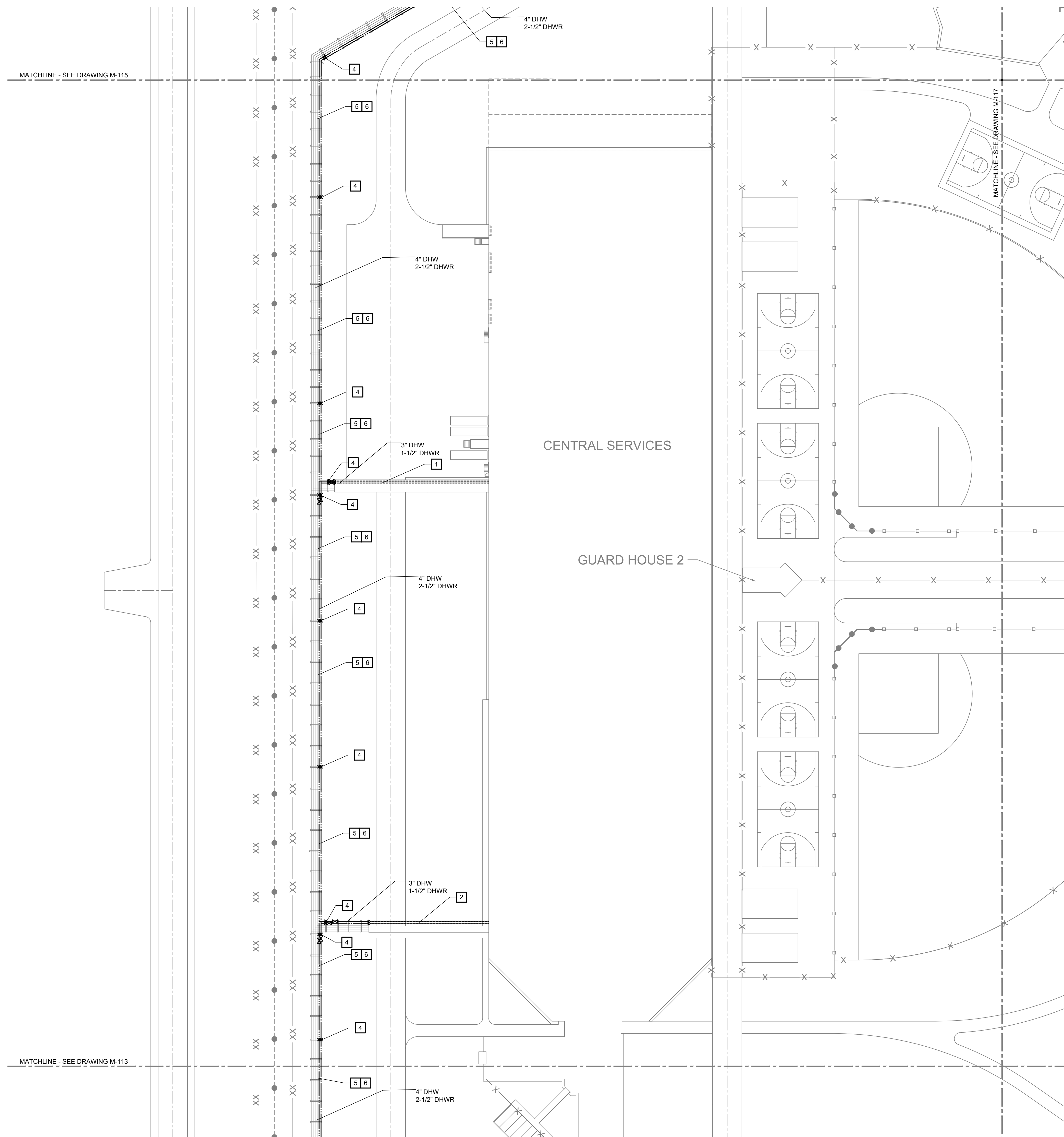
7 OF 24 SHEETS  
03/05/2026

**GENERAL NOTES**

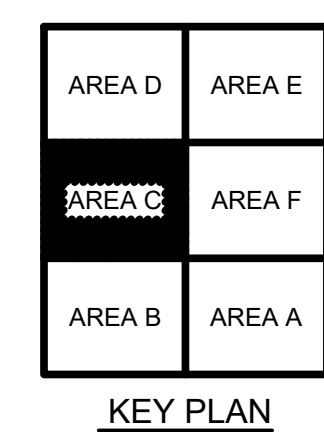
1. REUSE EXISTING PIPE ROLLERS FOR DHWR PIPING. REPLACE DAMAGED OR MISSING PIPE ROLLERS AS REQUIRED.
2. BID ALTERNATE #2: REPLACE (50) 6" GROOVED HEATING WATER COUPLERS (LOCATIONS DETERMINED BY OWNER) INSULATE PIPE WITH 2" POLYURETHANE SECURE WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS.

**KEYED NOTES**

1. PIPING IN TRENCH UNDER ROADWAY WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 203X ON SHEET M-503.
2. PIPING IN TRENCH UNDER ROADWAY WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 205X ON SHEET M-503.
3. NOT USED.
4. PROVIDE NEW PIPE ANCHORS FOR DHW PIPE. REUSE PIPE ANCHORS WHERE POSSIBLE FOR DHWR PIPE.
5. INSTALL NEW PIPE EXPANSION LOOP ON DHW & DHWR LINES. REUSE EXISTING PIPE GUIDES ON DHWR LINE. INSTALL NEW PIPE GUIDE ON DHW LINE NEXT TO EXISTING PIPE GUIDES. INSTALL 2" POLYURETHANE INSULATION KIT WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS. REFER TO DETAIL ON M-501.
6. BID ALTERNATE #1: ON THE HEATING WATER PIPING REPLACE EXISTING INLINE GROOVED EXPANSION JOINTS WITH NEW GROOVED U-SHAPE EXPANSION LOOP. SEE SHEET M-501 FOR EXPANSION JOINT AND SUPPORT DETAILS

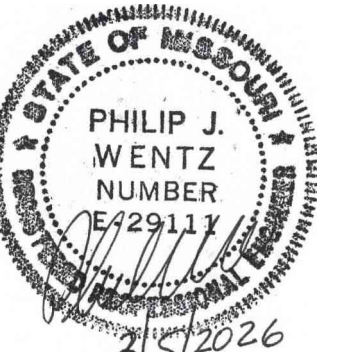


**PARTIAL SITE PLAN - AREA C**  
1" = 40'-0"



KEY PLAN

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INFRASTRUCTURE  
SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
PARTIAL SITE PLAN  
AREA D

SHEET NUMBER:

**M-115**

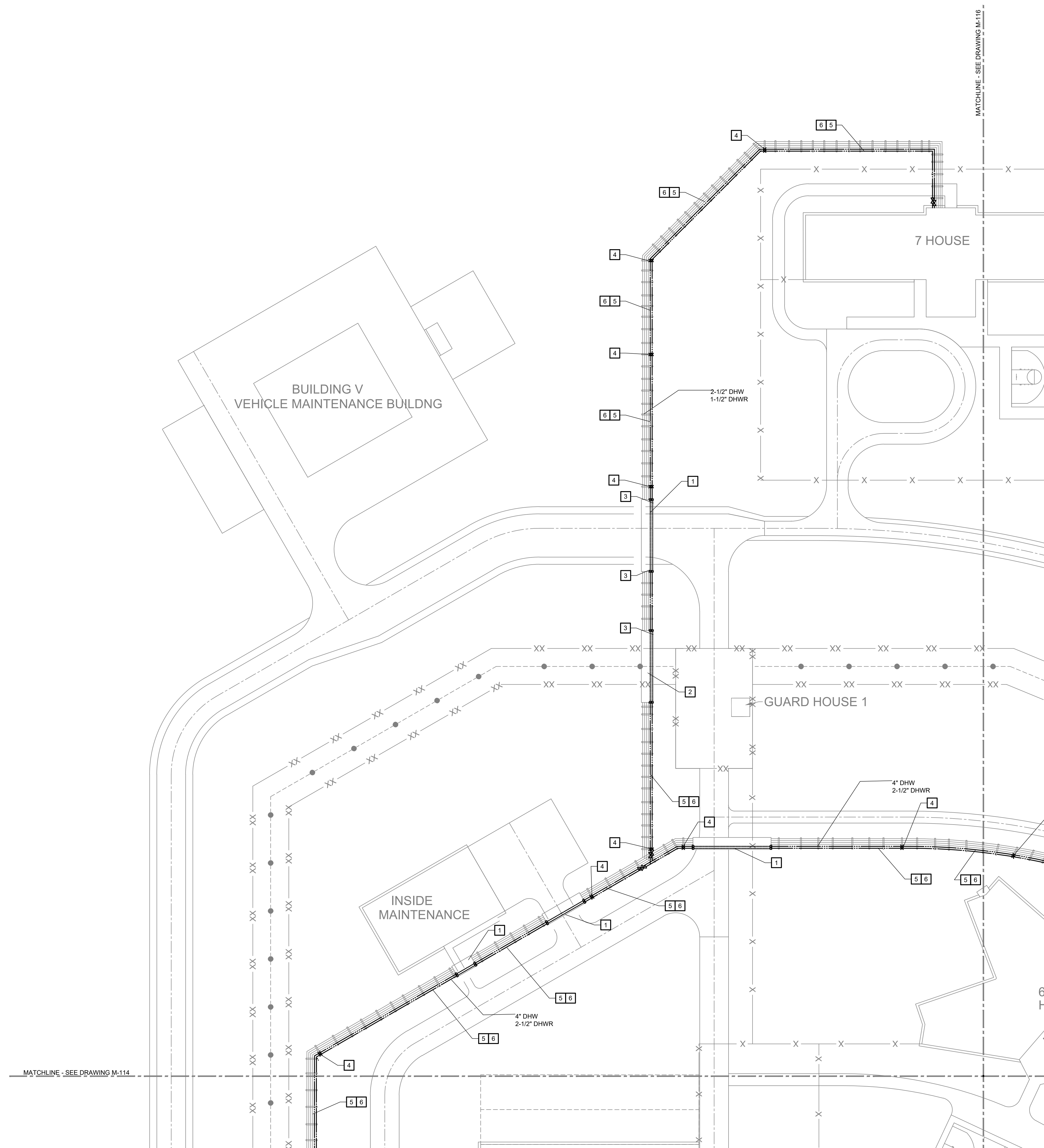
8 OF 24 SHEETS  
03/05/2026

**GENERAL NOTES**

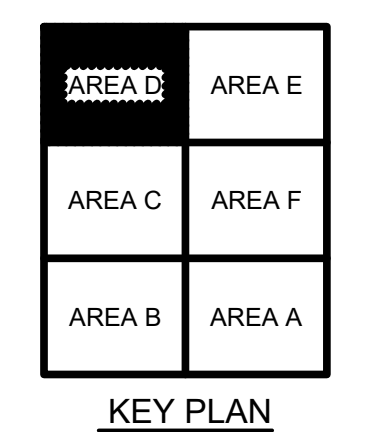
- REUSE EXISTING PIPE ROLLERS FOR DHWR PIPING. REPLACE DAMAGED OR MISSING PIPE ROLLERS AS REQUIRED.
- BID ALTERNATE #2: REPLACE (50) 6" GROOVED HEATING WATER COUPLERS (LOCATIONS DETERMINED BY OWNER) INSULATE PIPE WITH 2" POLYURETHANE SECURE WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS.

**KEYED NOTES**

- PIPING IN TRENCH UNDER ROADWAY WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 202X ON SHEET M-503.
- PIPING IN TRENCH UNDER SECURITY FENCE WITH REMOVABLE CONCRETE PLANK SYSTEM AND SUBGRADE WALL PENETRATION. REFER TO DETAIL 204X ON SHEET M-503.
- INSTALL FLEXIBLE COUPLINGS ON ELBOWS IN TRENCH.
- PROVIDE NEW PIPE ANCHORS FOR DHW PIPE. REUSE PIPE ANCHORS WHERE POSSIBLE FOR DHWR PIPE.
- INSTALL NEW PIPE EXPANSION LOOP ON DHW & DHWR LINES. REUSE EXISTING PIPE GUIDES ON DHWR LINE. INSTALL NEW PIPE GUIDE ON DHW LINE NEXT TO EXISTING PIPE GUIDES. INSTALL 2" POLYURETHANE INSULATION KIT WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS. REFER TO DETAIL ON M-501.
- BID ALTERNATE #1: ON THE HEATING WATER PIPING REPLACE EXISTING INLINE GROOVED EXPANSION JOINTS WITH NEW GROOVED U-SHAPE EXPANSION LOOP. SEE SHEET M-501 FOR EXPANSION JOINT AND SUPPORT DETAILS



**PARTIAL SITE PLAN - AREA D**  
1" = 40'-0"



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SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
PARTIAL SITE PLAN  
AREA E

SHEET NUMBER:  
**M-116**

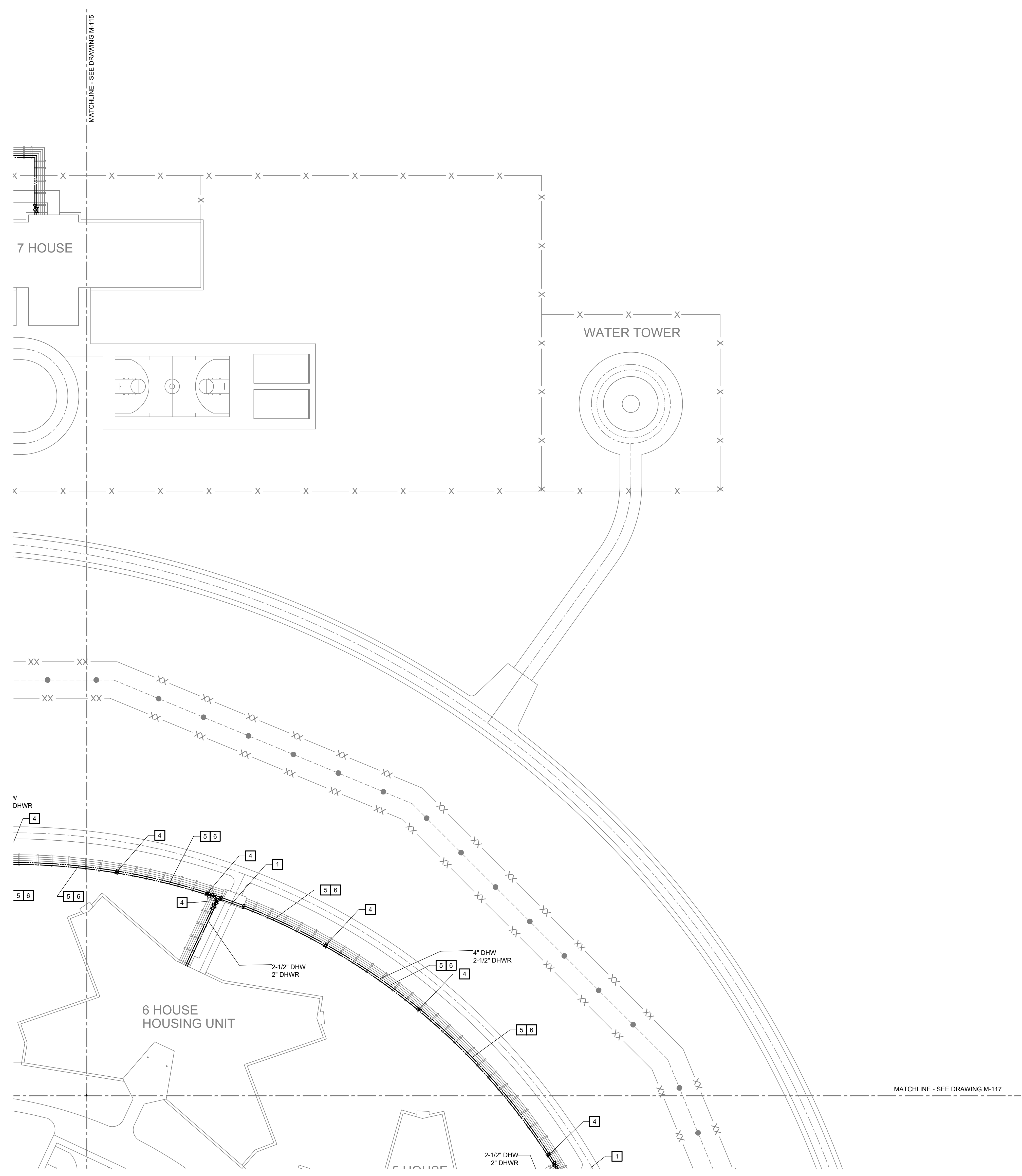
9 OF 24 SHEETS  
03/05/2026

**GENERAL NOTES**

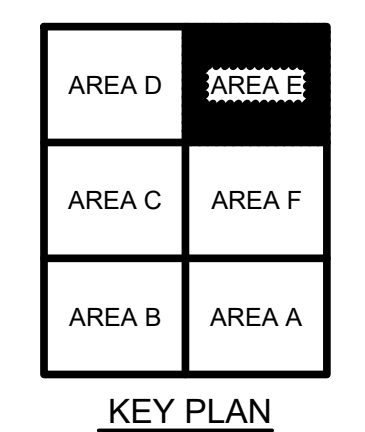
1. REUSE EXISTING PIPE ROLLERS FOR DHWR PIPING. REPLACE DAMAGED OR MISSING PIPE ROLLERS AS REQUIRED.
2. BID ALTERNATE #2: REPLACE (50) 6" GROOVED HEATING WATER COUPLERS (LOCATIONS DETERMINED BY OWNER) INSULATE PIPE WITH 2" POLYURETHANE SECURE WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS.

**KEYED NOTES**

1. PIPING IN TRENCH UNDER ACCESS PATH WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 201X ON SHEET M-503.
2. NOT USED.
3. NOT USED.
4. PROVIDE NEW PIPE ANCHORS FOR DHW PIPE. REUSE PIPE ANCHORS WHERE POSSIBLE FOR DHWR PIPE.
5. INSTALL NEW PIPE EXPANSION LOOP ON DHW & DHWR LINES. REUSE EXISTING PIPE GUIDES ON DHWR LINE. INSTALL NEW PIPE GUIDE ON DHW LINE NEXT TO EXISTING PIPE GUIDES. INSTALL 2" POLYURETHANE INSULATION KIT WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS. REFER TO DETAIL ON M-501.
6. BID ALTERNATE #1: ON THE HEATING WATER PIPING REPLACE EXISTING INLINE GROOVED EXPANSION JOINTS WITH NEW GROOVED U-SHAPE EXPANSION LOOP. SEE SHEET M-501 FOR EXPANSION JOINT AND SUPPORT DETAILS



**PARTIAL SITE PLAN - AREA E**  
1" = 40'-0"



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MO Engineering Registration No. PE-029111  
MO COA: 000087

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CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
PARTIAL SITE PLAN  
AREA F

SHEET NUMBER:

**M-117**

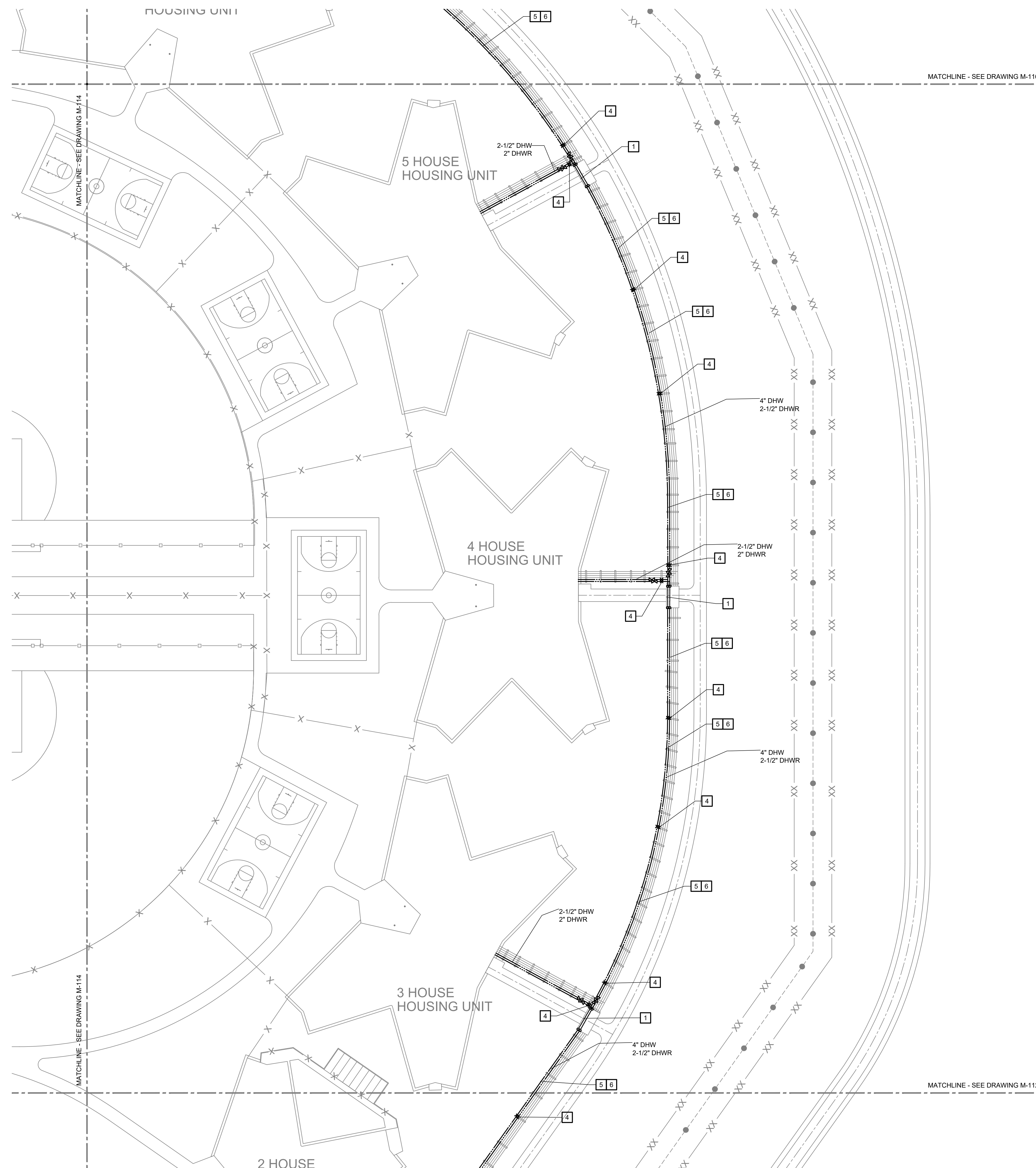
10 OF 24 SHEETS  
03/05/2026

**GENERAL NOTES**

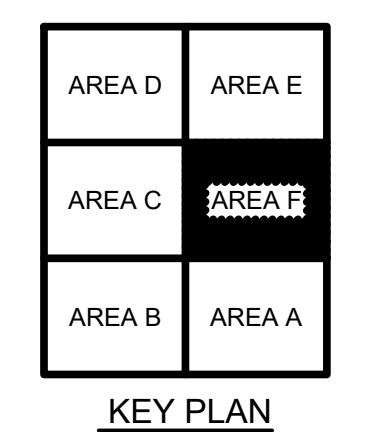
1. REUSE EXISTING PIPE ROLLERS FOR DHWR PIPING. REPLACE DAMAGED OR MISSING PIPE ROLLERS AS REQUIRED.
2. BID ALTERNATE #2: REPLACE (50) 6" GROOVED HEATING WATER COUPLERS (LOCATIONS DETERMINED BY OWNER) INSULATE PIPE WITH 2" POLYURETHANE SECURE WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS.

**KEYED NOTES**

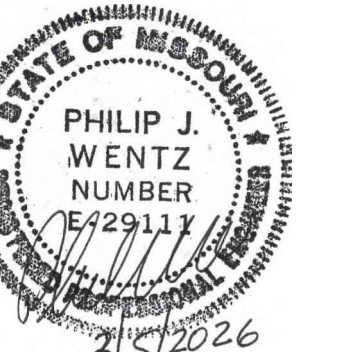
1. PIPING IN TRENCH UNDER ROADWAY WITH REMOVABLE CONCRETE PLANK SYSTEM. REFER TO DETAIL 201X ON SHEET M-503.
2. NOT USED.
3. NOT USED.
4. INSTALL NEW PIPE ANCHORS FOR DHW PIPE. REUSE PIPE ANCHORS WHERE POSSIBLE FOR DHWR PIPE.
5. INSTALL NEW PIPE EXPANSION LOOP ON DHW & DHWR LINES. REUSE EXISTING PIPE GUIDES ON DHWR LINE. INSTALL NEW PIPE GUIDE ON DHW LINE NEXT TO EXISTING PIPE GUIDES. INSTALL 2" POLYURETHANE INSULATION KIT WITH ALUMINUM SLEEVE AND STAINLESS STEEL WORM GEAR BANDS. REFER TO DETAIL ON M-501.
6. BID ALTERNATE #1: ON THE HEATING WATER PIPING REPLACE EXISTING INLINE GROOVED EXPANSION JOINTS WITH NEW GROOVED U-SHAPE EXPANSION LOOP. SEE SHEET M-501 FOR EXPANSION JOINT AND SUPPORT DETAILS.



**PARTIAL SITE PLAN - AREA F**  
1" = 40'-0"



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PHILIP J. WENTZ  
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300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
POWER PLANT  
PLUMBING PLAN

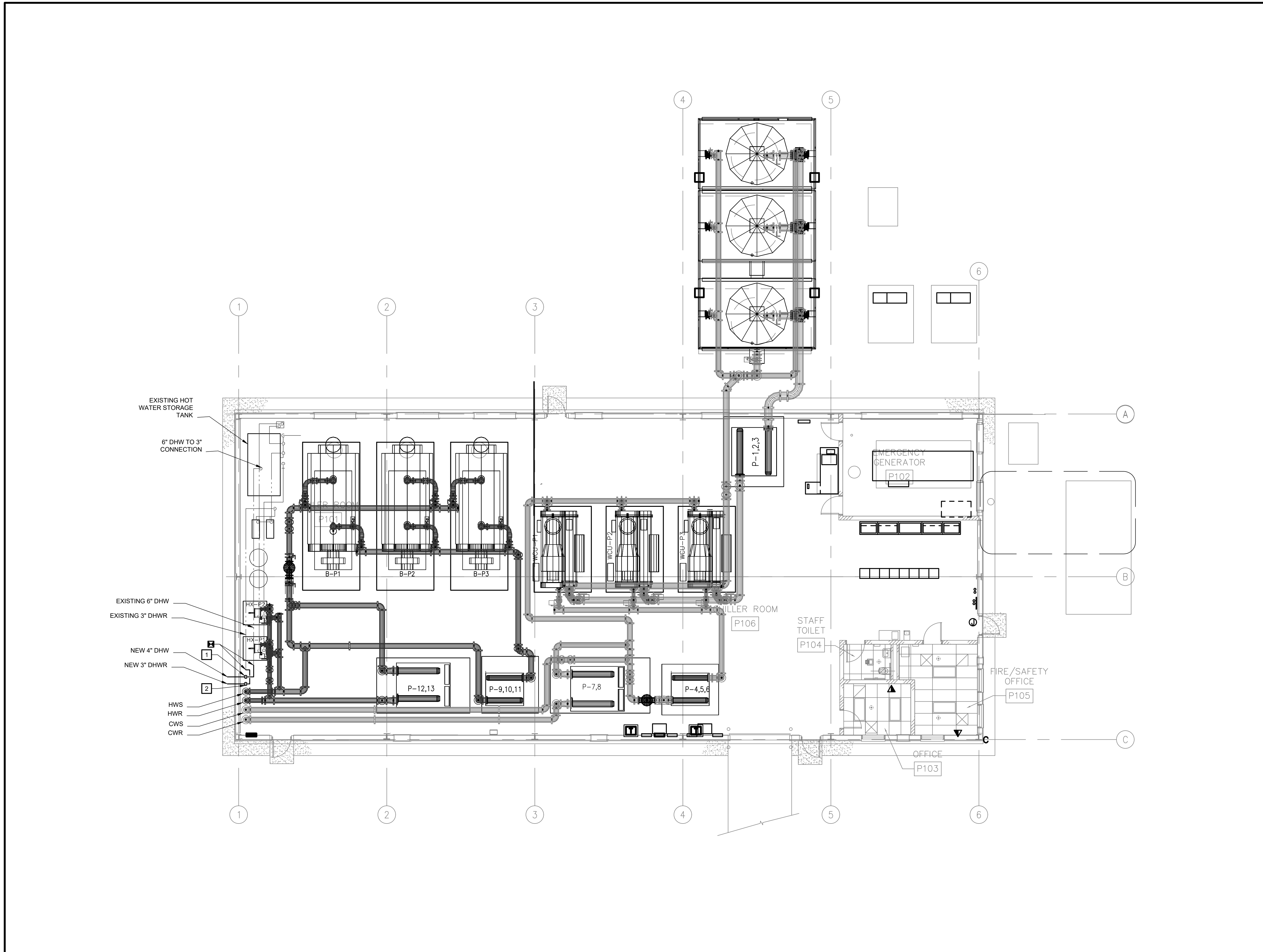
SHEET NUMBER:

**M-120**

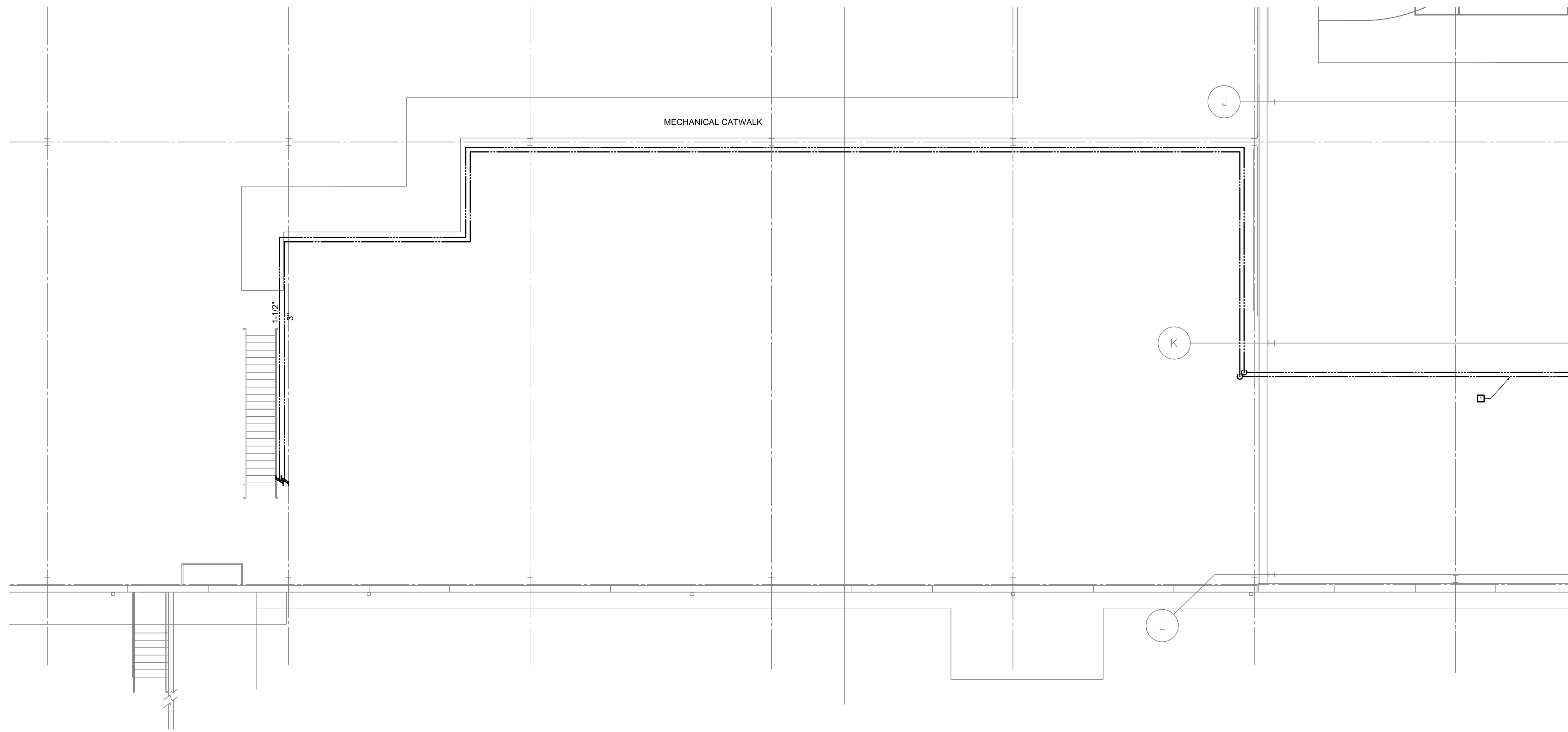
11 OF 24 SHEETS  
03/05/2026

KEYED NOTES

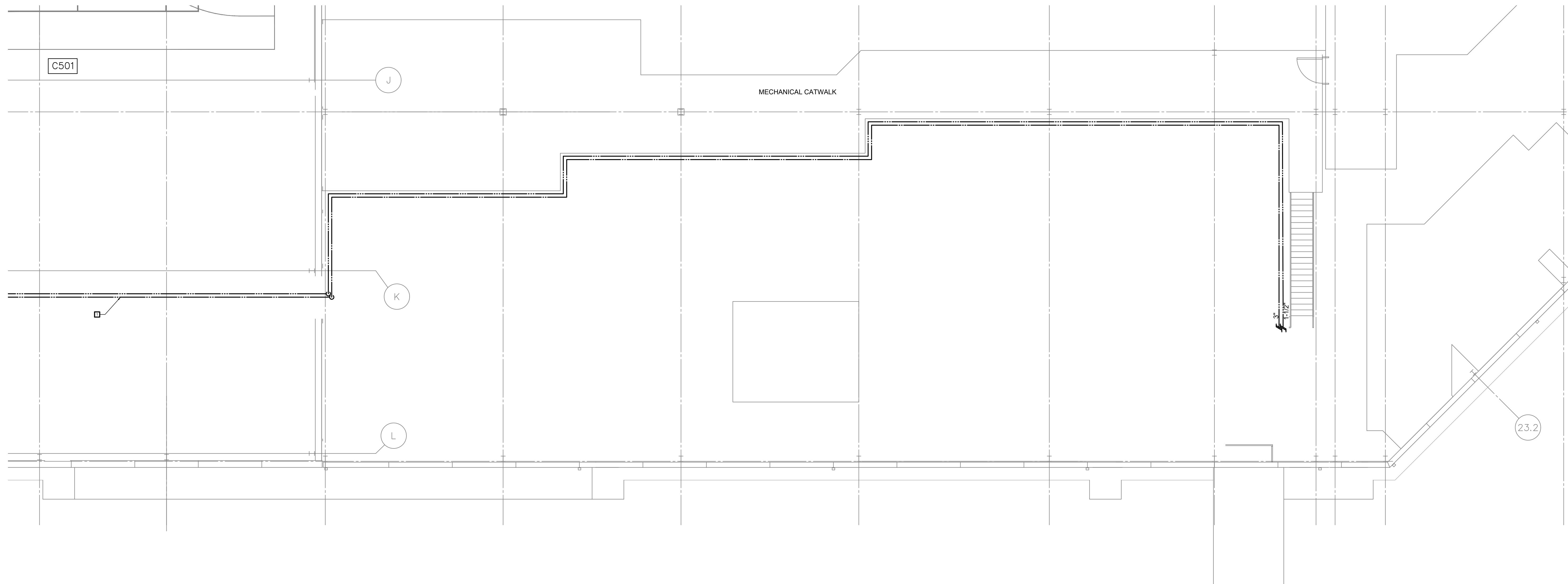
- 1 PHASE 1B: REPLACE DHWR RISER WITH DHW RISER.
- 2 PHASE 1C: REPLACE DHW RISER WITH DHWR RISER.



**PLUMBING PLAN**  
SCALE  
N



**CENTRAL SERVICES NORTH MECHANICAL CATWALK - NEW WORK**  
 1/8" = 1'-0"



**CENTRAL SERVICES SOUTH MECHANICAL CATWALK - NEW WORK**  
 1/8" = 1'-0"

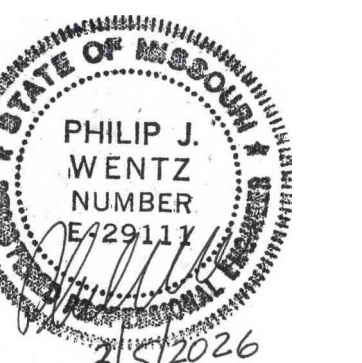
**GENERAL NOTES**

1. COORDINATE SYSTEM OUTAGES WITH FACILITIES TEAM PRIOR TO SHUT-DOWN.

**KEYED NOTES**

- 1. COORDINATE WITH OWNER FOR ACCESS ABOVE CEILING WEST OF COLUMN LINE K.
- 2. TEMPORARY PIPING FROM INTERCONNECTION OF NORTH AND SOUTH MECHANICAL ROOMS. REFER TO NEW WORK PLANS ON M-413.

STATE OF MISSOURI  
 MIKE KEHOE,  
 GOVERNOR



PHILIP J. WENTZ  
 MO Engineering Registration No. PE-029111  
 MO COA: 000087

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 CHARLESTON, MO 63834

PROJECT # C2516-01  
 SITE# 7020  
 FACILITY# 9327020029

REVISION: 0 - IFB SET  
 DATE: 03/05/2026  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
 CHECKED BY: TMP  
 DESIGNED BY: CCW

SHEET TITLE:  
 CENTRAL SERVICES  
 ENLARGED  
 MECHANICAL  
 ROOM PLANS

SHEET NUMBER:

**M-123**

12 OF 24 SHEETS  
 03/05/2026

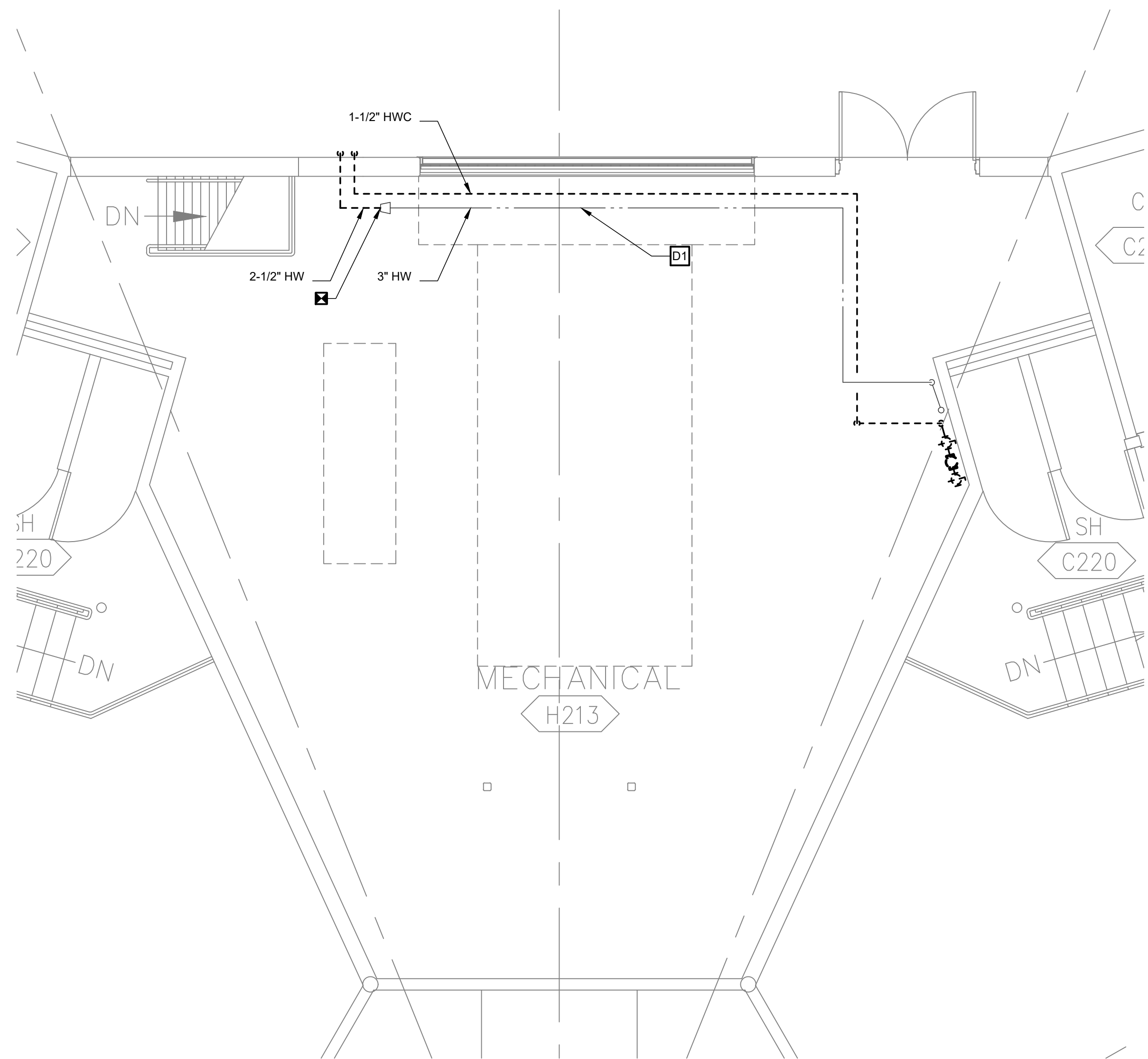


PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
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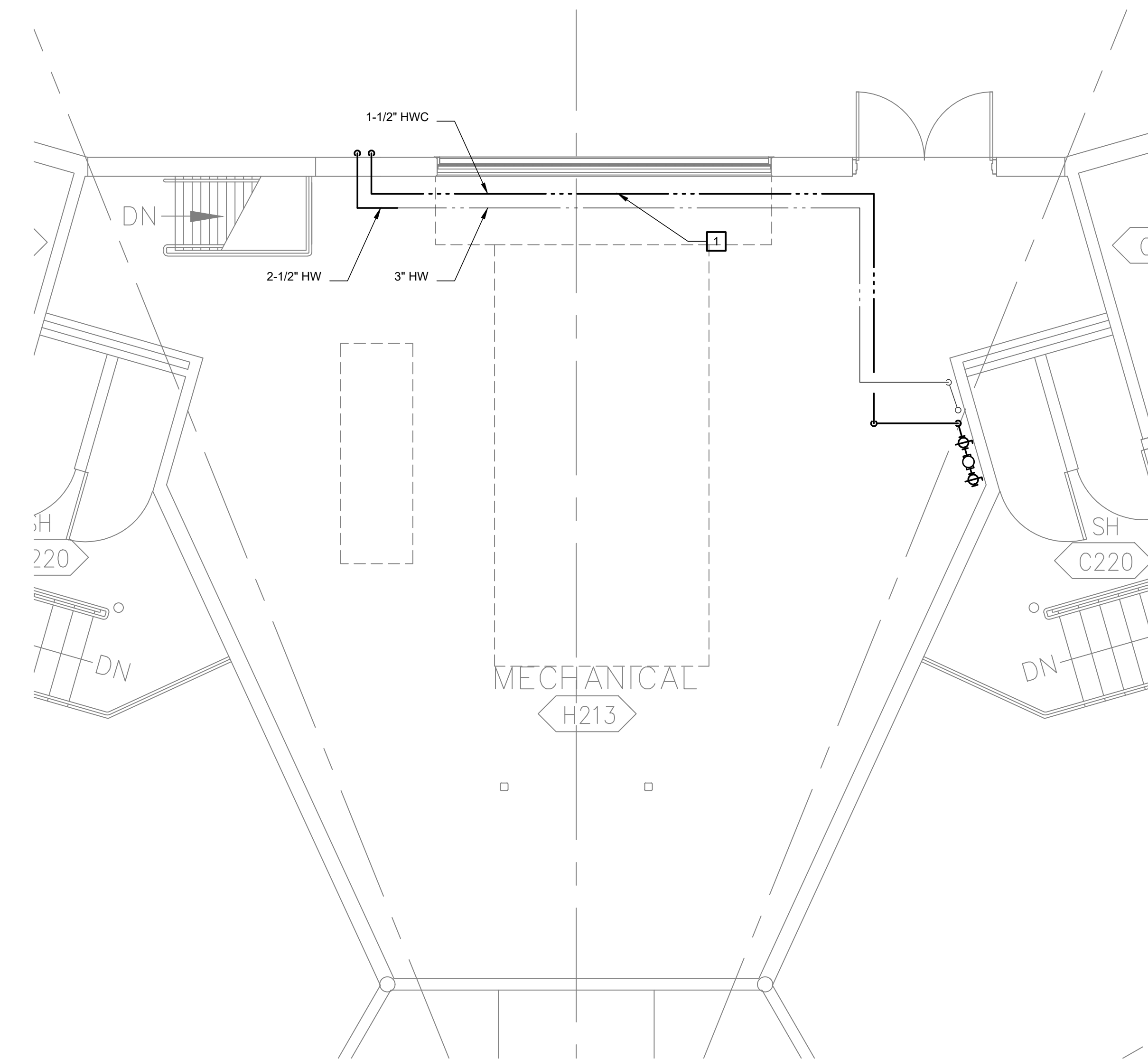
STRUCTURAL ENGINEER:  
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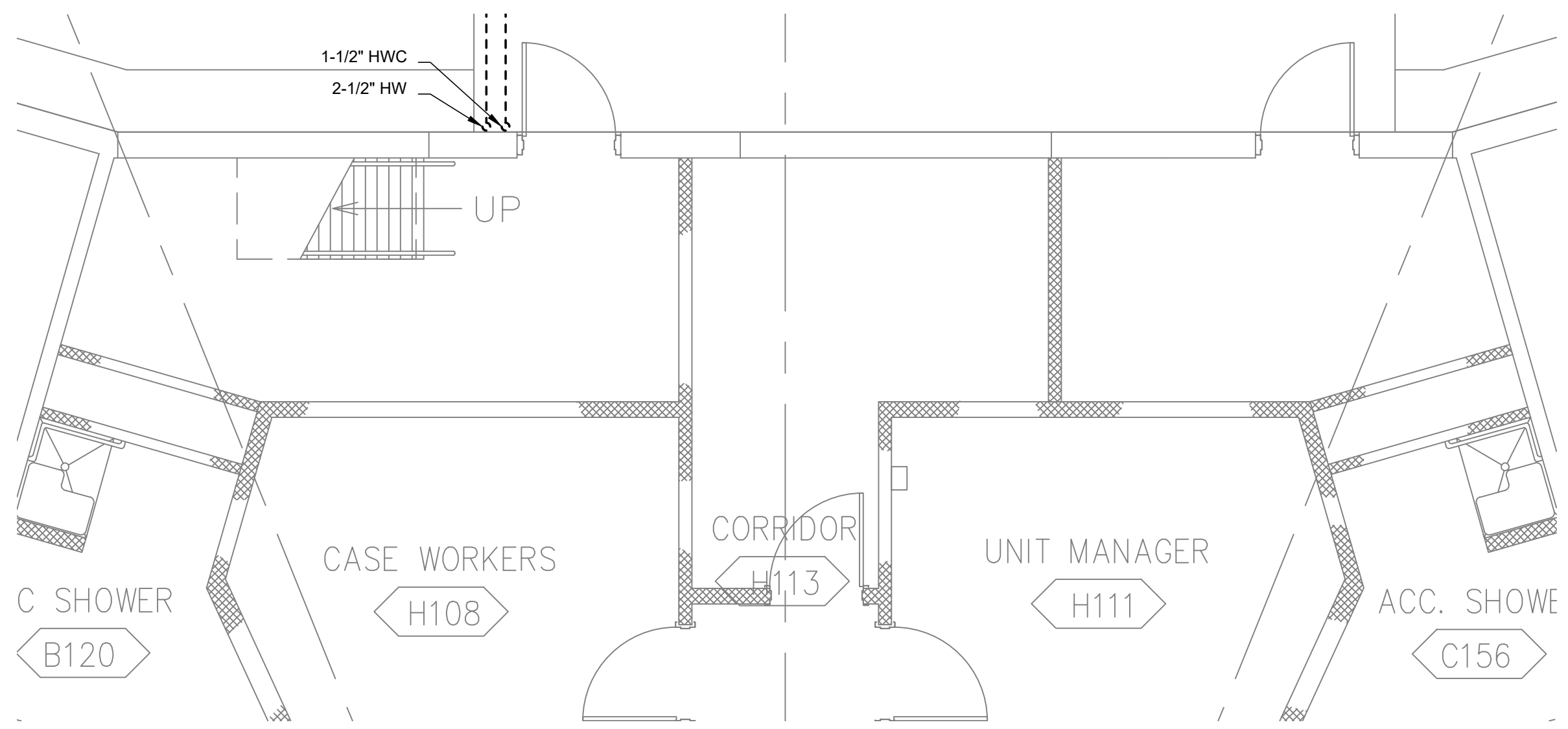
- GENERAL NOTES**
- COORDINATE SYSTEM OUTAGES WITH FACILITIES TEAM PRIOR TO SHUT-DOWN.
- DEMOLITION KEYED NOTES**
- D1** EXISTING 3" DHW PIPE INSIDE BUILDING TO REMAIN.
- NEW WORK KEYED NOTES**
- REPLACE DHWR PIPE UP TO HOT WATER CIRCULATING PUMP.
  - ADD SERVICE VALVES AND DRAIN VALVE AT BOTTOM OF RISER. EXISTING 3" DHW PIPE INSIDE BUILDING TO REMAIN. REFER TO DETAIL 206X ON SHEET MS.1.3



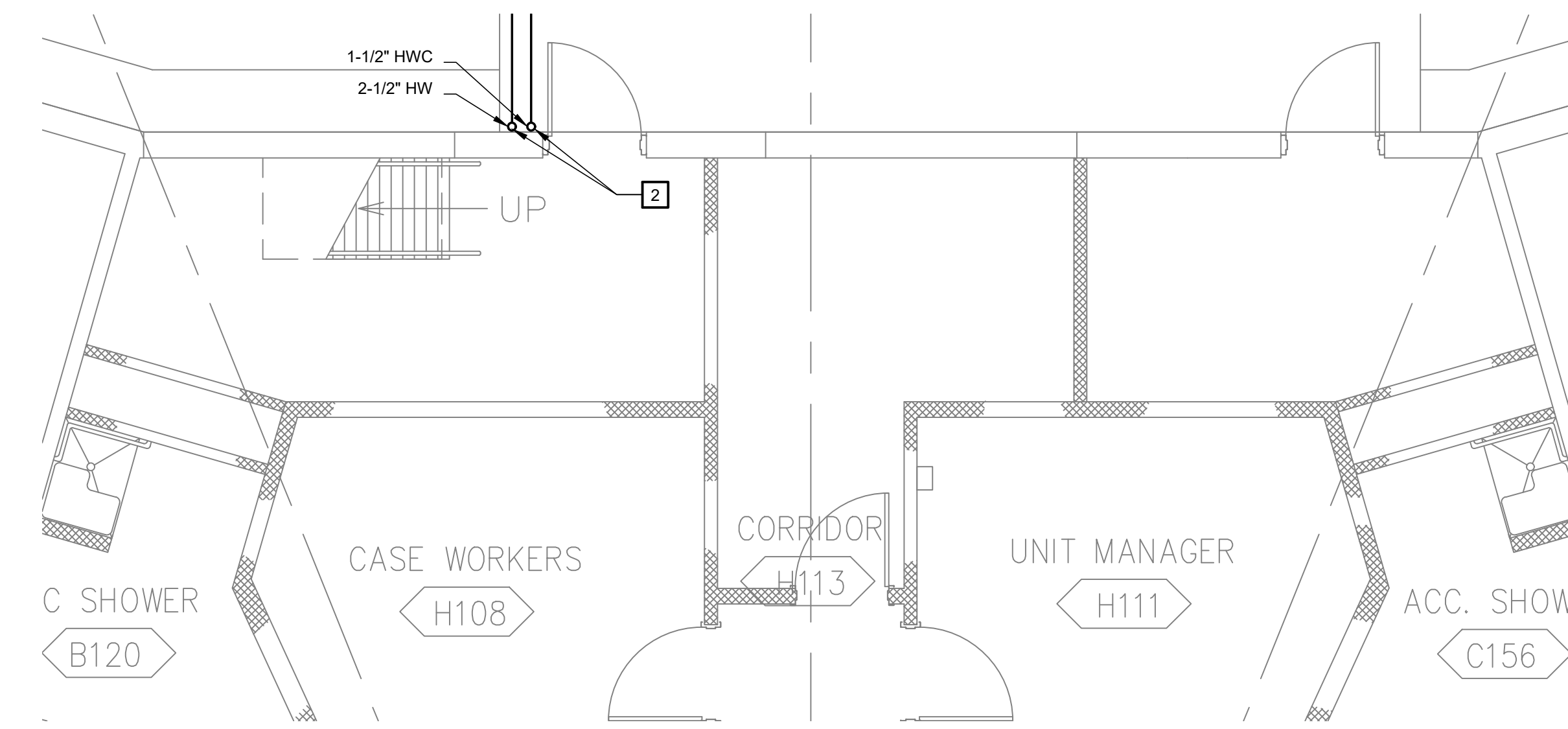
TYPICAL HOUSING UNIT 2-6  
ENLARGED MEZZANINE MECHANICAL ROOM PLAN - DEMOLITION  
1/4" = 1'-0"



TYPICAL HOUSING UNIT 2-6  
ENLARGED MEZZANINE MECHANICAL ROOM PLAN - NEW WORK  
1/4" = 1'-0"



TYPICAL HOUSING UNIT 2-6  
ENLARGED FIRST FLOOR MECHANICAL ROOM PLAN - DEMOLITION  
1/4" = 1'-0"



TYPICAL HOUSING UNIT 2-6  
ENLARGED FIRST FLOOR MECHANICAL ROOM PLAN - NEW WORK  
1/4" = 1'-0"

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300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
TYPICAL HOUSING  
UNIT 2-6 ENLARGED  
MECHANICAL  
ROOM PLANS

SHEET NUMBER:

**M-411**

S:\075114.000 CHARLESTON RPLC DOM WATER LOOP & HOT WTR\03 MECHANICAL\M-411-075114.000.dwg 2026-3-5 16:51 Resallwasser



PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
MO COA: 000087

**GENERAL NOTES**

1. COORDINATE SYSTEM OUTAGES WITH FACILITIES TEAM PRIOR TO SHUT-DOWN.

**KEYED NOTES**

- 1 REMOVE EXISTING WATER HEATER AND RETURN TO FACILITIES.
- 2 DHW & DHWR PIPES TO RISE UP OUTSIDE BUILDING AND PENETRATE WALL ABOVE CEILING. CORE DRILL NEW PENETRATIONS & PATCH EXISTING PENETRATIONS

STRUCTURAL ENGINEER:

**Archer Elgin**  
310 East 6th Street  
Rolla, MO 65401  
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www.archer-elgin.com

MEP:

**McClure Engineering**  
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Fifth Floor  
St. Louis, MO 63102  
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www.mcclureeng.com

OFFICE OF ADMINISTRATION  
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MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

REPLACE DOMESTIC &  
HEATING LOOP,  
INFRASTRUCTURE  
SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

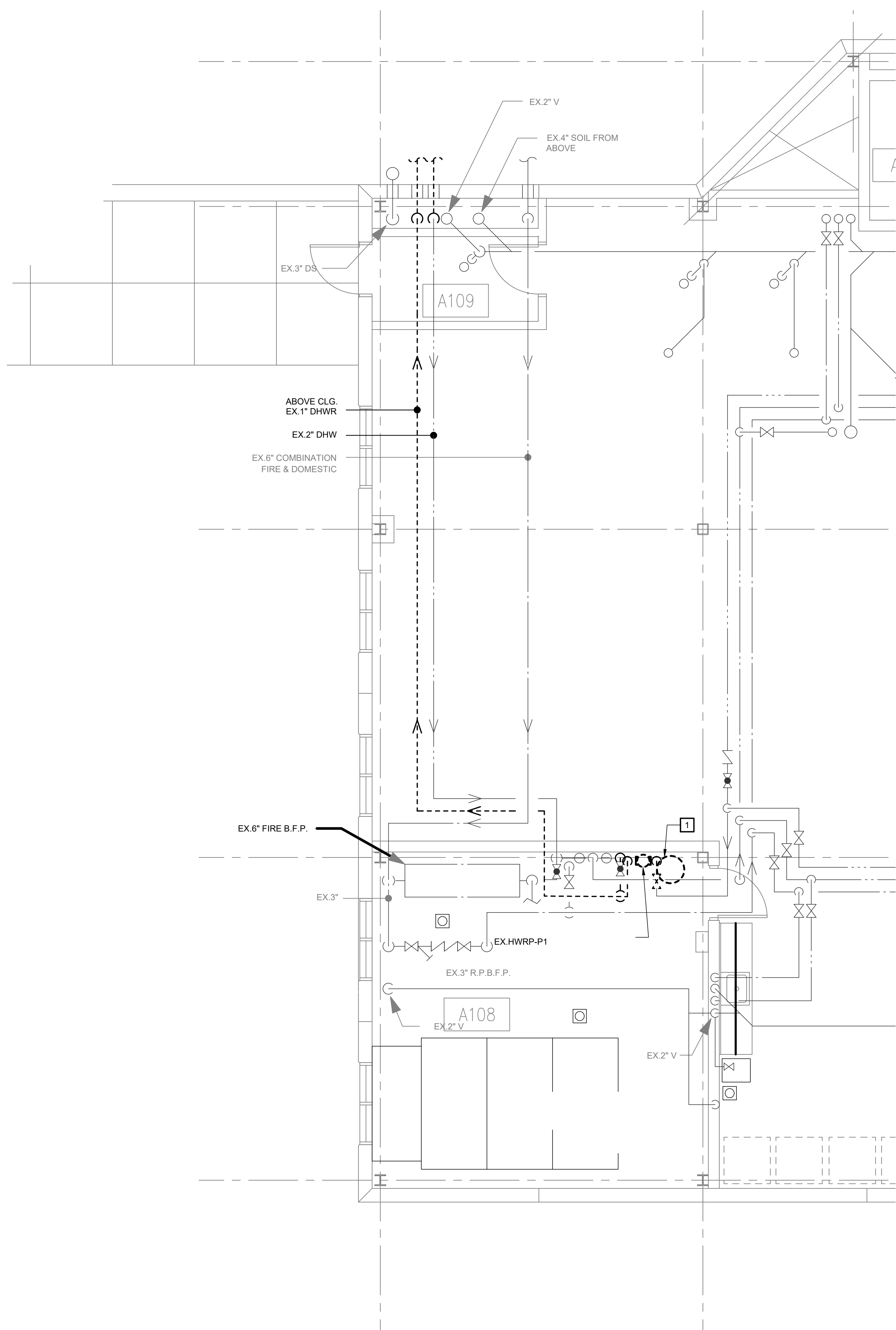
DRAWN BY: RCS  
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SHEET TITLE:  
ADMINISTRATION  
ENLARGED  
MECHANICAL  
ROOM PLAN

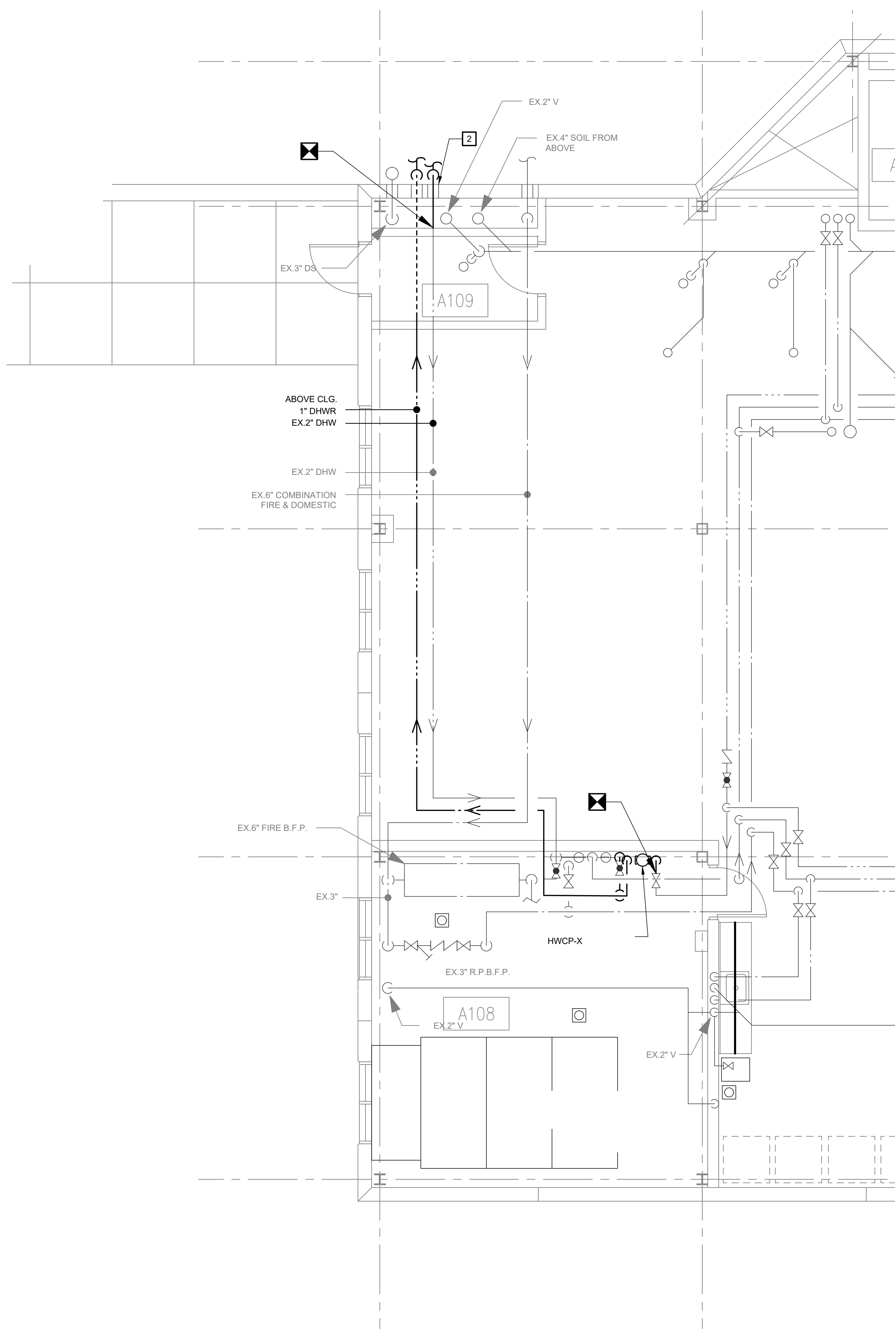
SHEET NUMBER:

**M-412**

14 OF 24 SHEETS  
03/05/2026



**N ADMINISTRATION BUILDING**  
**ENLARGED MECHANICAL ROOM PLAN - DEMOLITION**  
1/4" = 1'-0"



**N ADMINISTRATION BUILDING**  
**ENLARGED MECHANICAL ROOM PLAN - NEW WORK**  
1/4" = 1'-0"

S:\075114.000 CHARLESTON RPLC DOM WATER LOOP & HOT WTR\03 MECHANICAL\M-412-075114.000.dwg 2026-3-5 16:51 Rsalwasser



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**GENERAL NOTES**

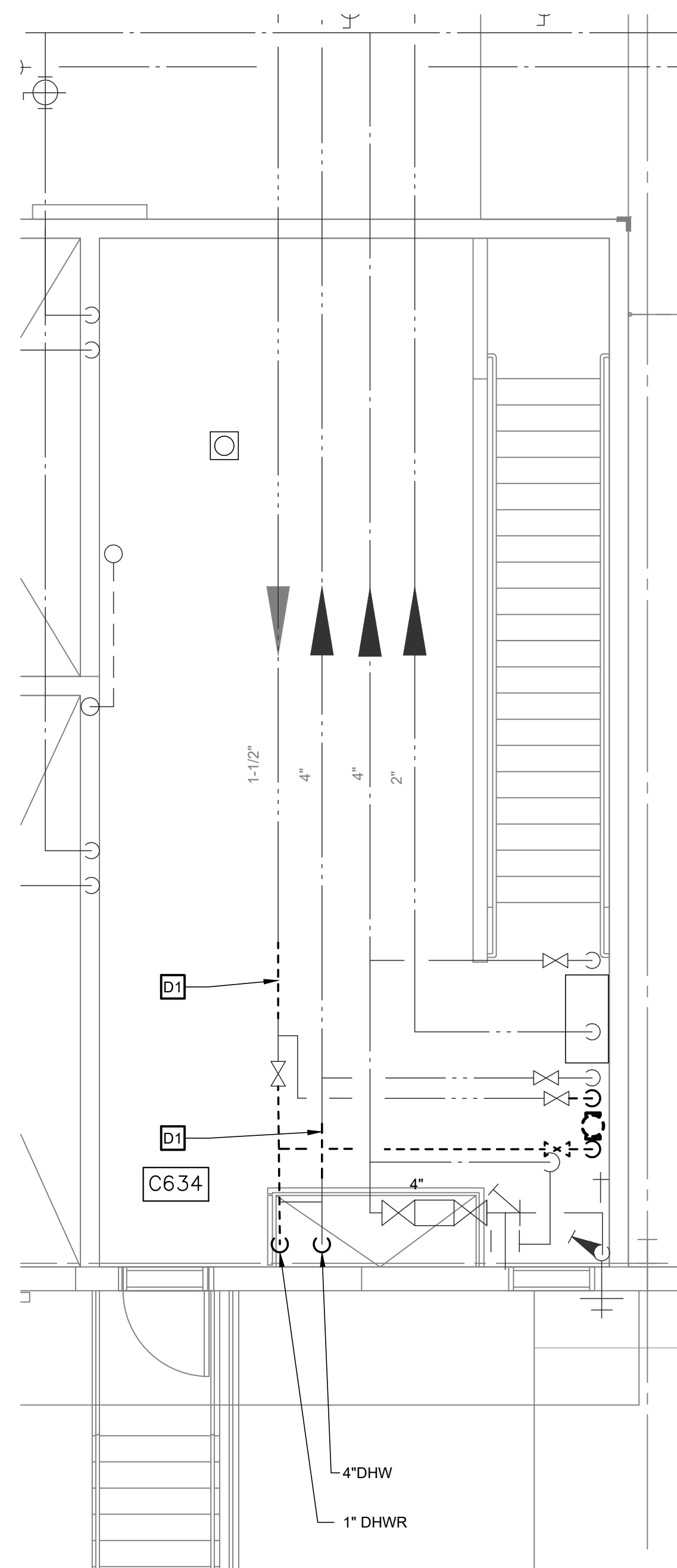
- COORDINATE SYSTEM OUTAGES WITH FACILITIES TEAM PRIOR TO SHUT-DOWN.

**DEMOLITION KEYED NOTES**

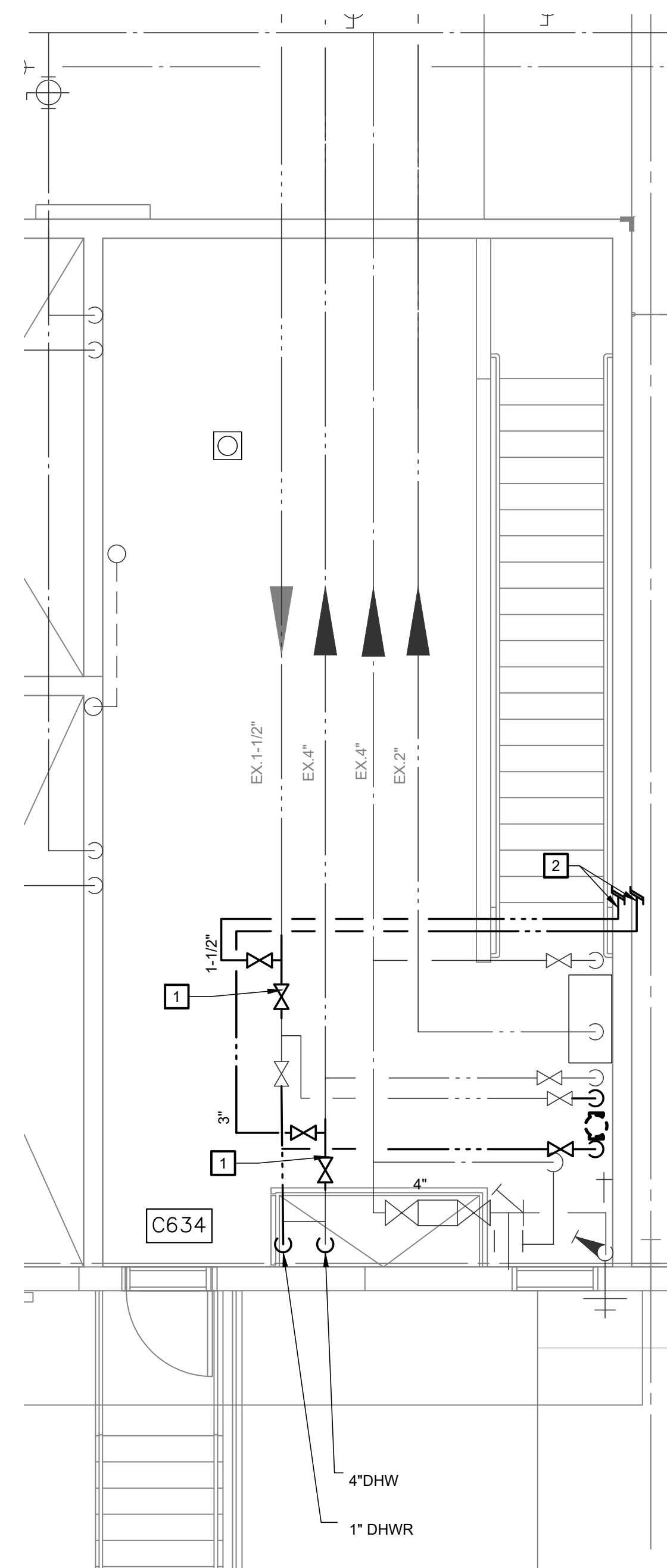
- REMOVE PIPE SECTION FOR CROSS TIE BETWEEN NORTH AND SOUTH MECHANICAL ROOMS.

**KEYED NOTES**

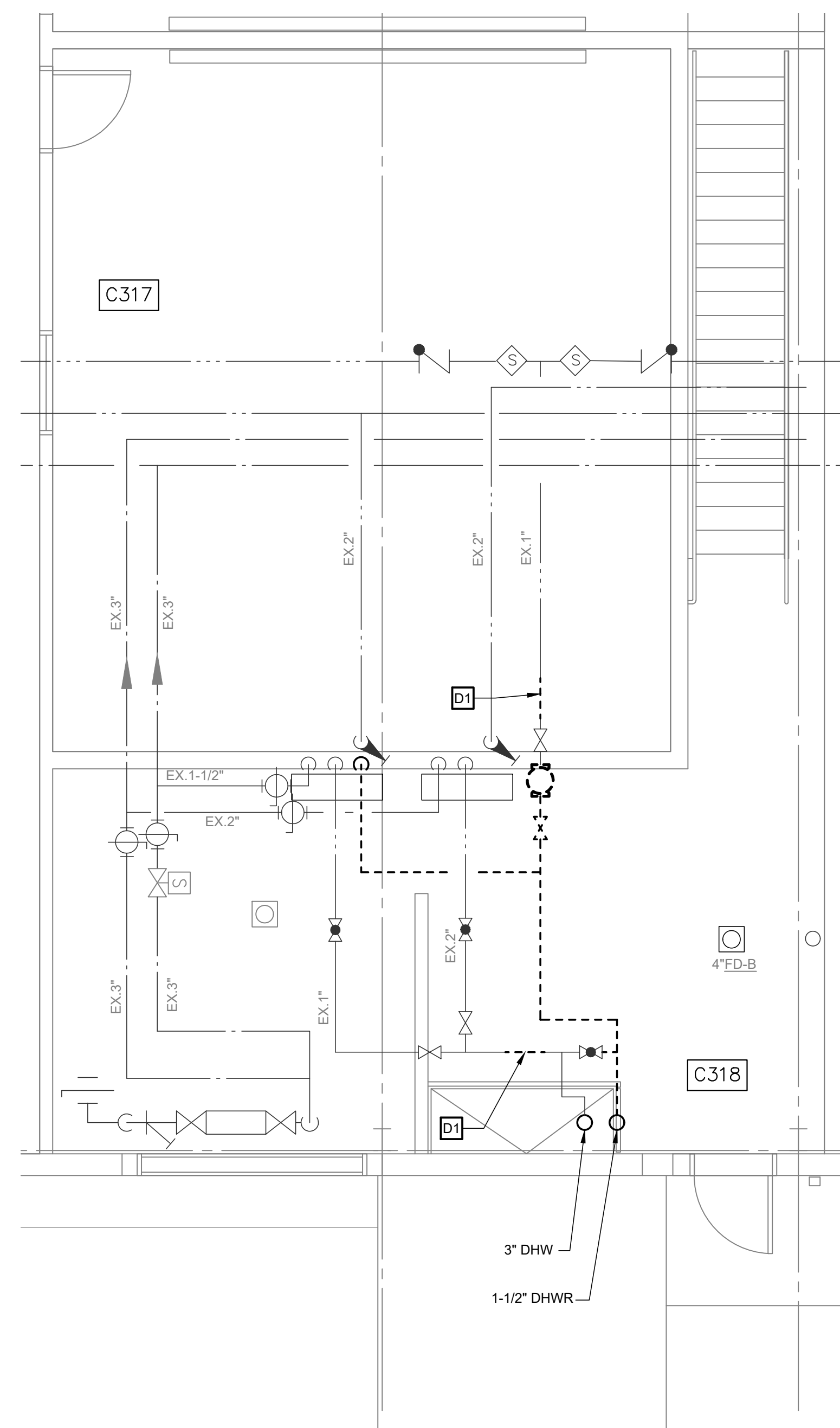
- INSTALL TEE AND VALVES.
- CROSS CONNECT PIPE BETWEEN NORTH AND SOUTH MECHANICAL ROOMS. REFER TO M-123 FOR CONTINUATION.



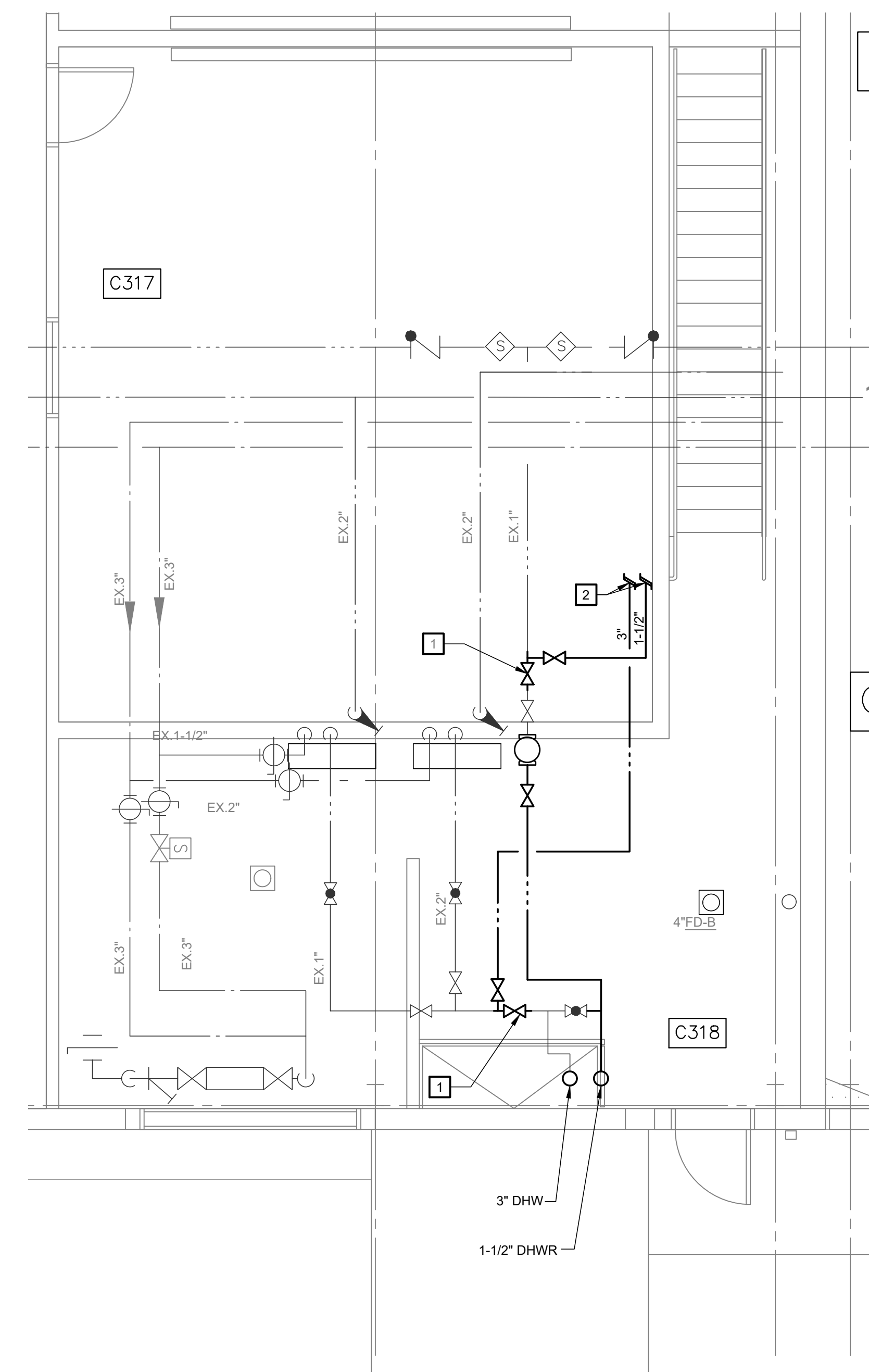
**CENTRAL SERVICES ENLARGED NORTH  
MECHANICAL ROOM PLAN - DEMOLITION**  
1/4" = 1'-0"



**CENTRAL SERVICES ENLARGED NORTH  
MECHANICAL ROOM PLAN - NEW WORK**  
1/4" = 1'-0"



**CENTRAL SERVICES ENLARGED SOUTH  
MECHANICAL ROOM PLAN - DEMOLITION**  
1/4" = 1'-0"



**CENTRAL SERVICES ENLARGED SOUTH  
MECHANICAL ROOM PLAN - NEW WORK**  
1/4" = 1'-0"

OFFICE OF ADMINISTRATION  
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REPLACE DOMESTIC &  
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INFRASTRUCTURE  
SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

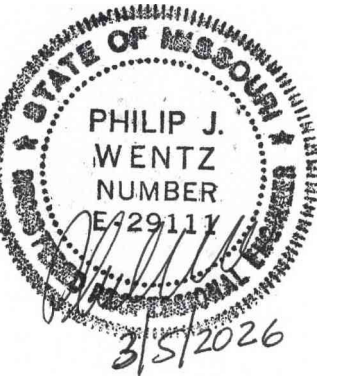
DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
**CENTRAL SERVICES ENLARGED  
MECHANICAL  
ROOM PLANS**

SHEET NUMBER:

**M-413**

15 OF 24 SHEETS  
03/05/2026



PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
MO COA: 000087

GENERAL NOTES

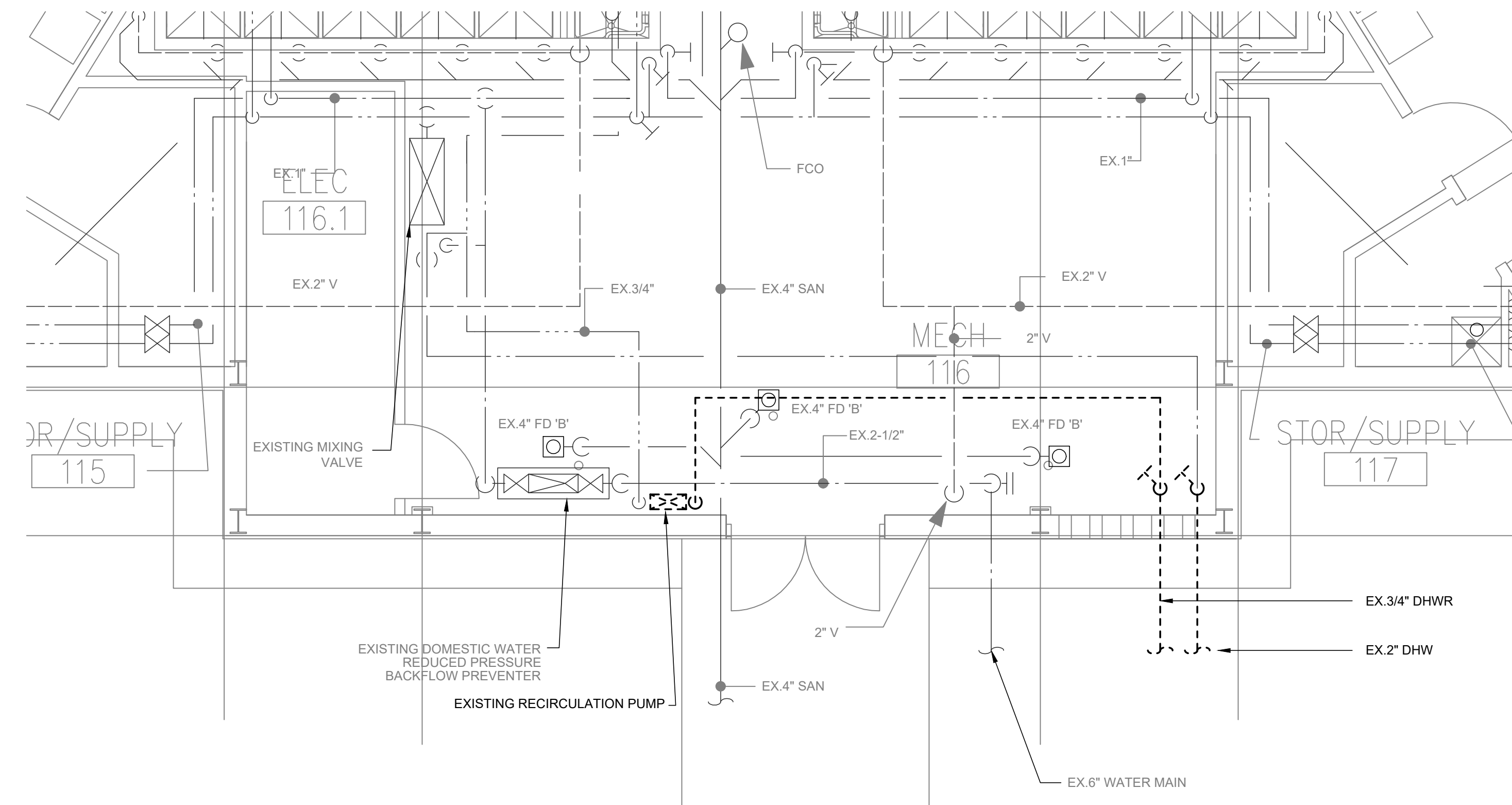
- COORDINATE SYSTEM OUTAGES WITH FACILITIES TEAM PRIOR TO SHUT-DOWN.

STRUCTURAL ENGINEER:

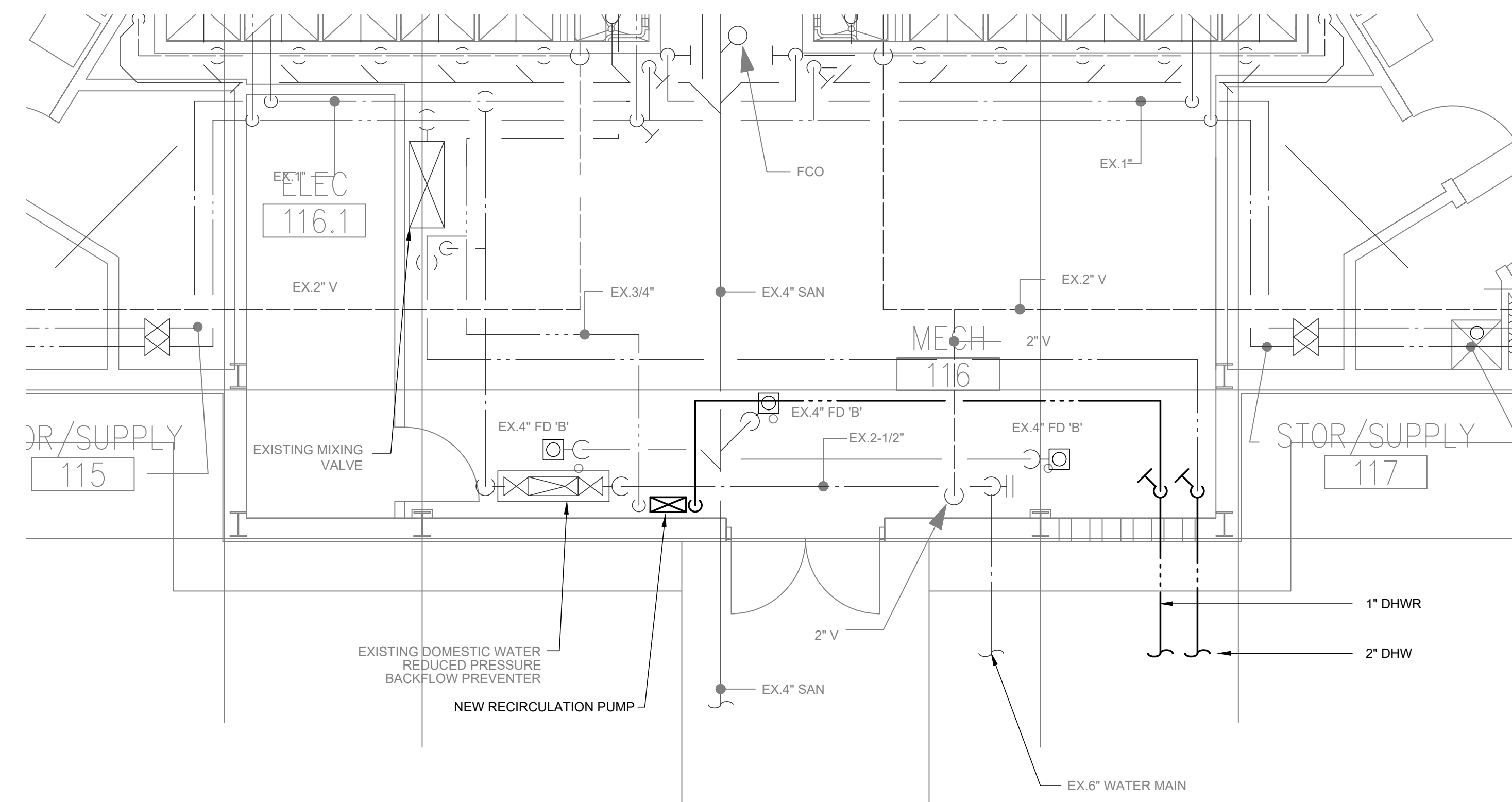
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MEP:

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HOUSING UNIT 7  
ENLARGED MECHANICAL ROOM PLAN - DEMOLITION  
1/4" = 1'-0"



HOUSING UNIT 7  
ENLARGED MECHANICAL ROOM PLAN - NEW WORK  
1/4" = 1'-0"

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DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

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HOUSING UNIT 7  
ENLARGED  
MECHANICAL  
ROOM PLAN

SHEET NUMBER:

**M-414**

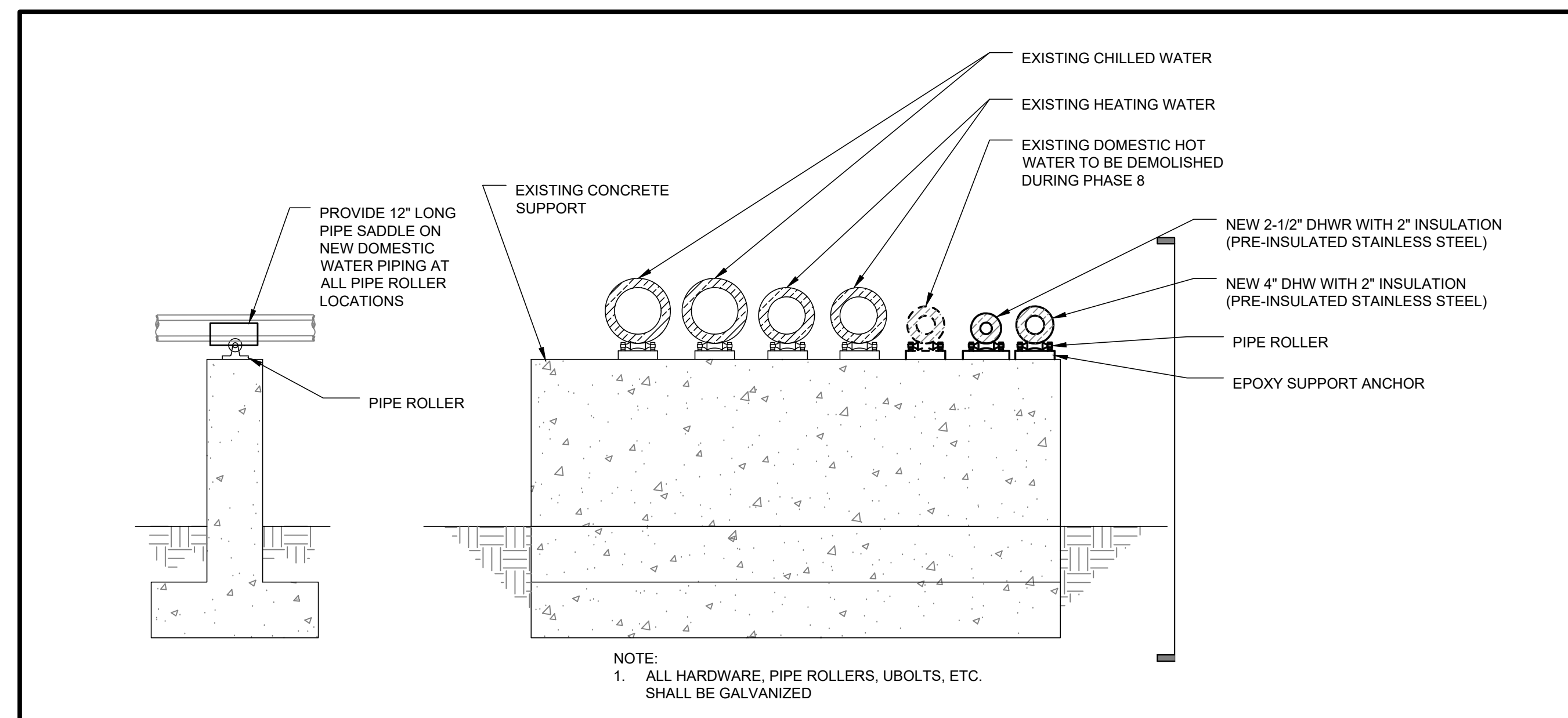
16 OF 24 SHEETS  
03/05/2026



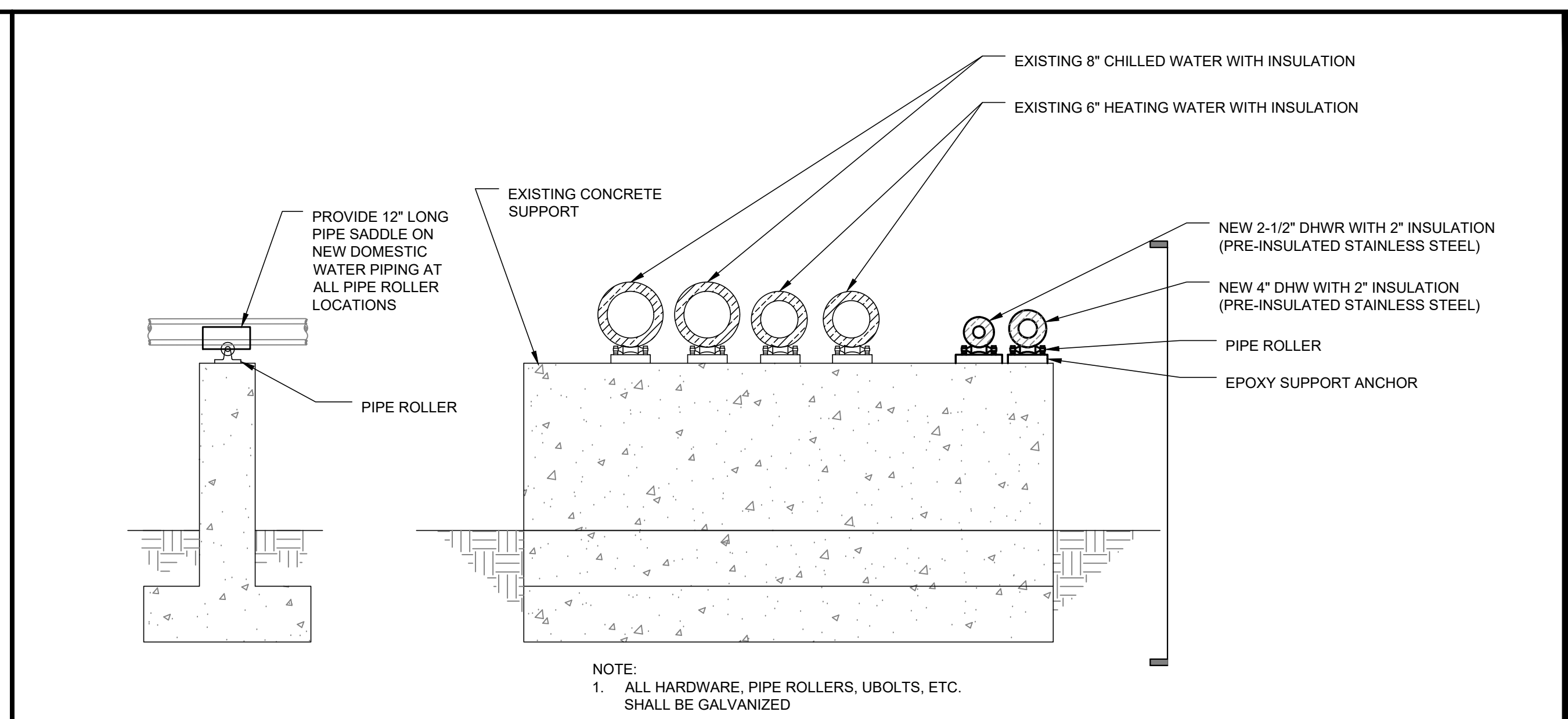
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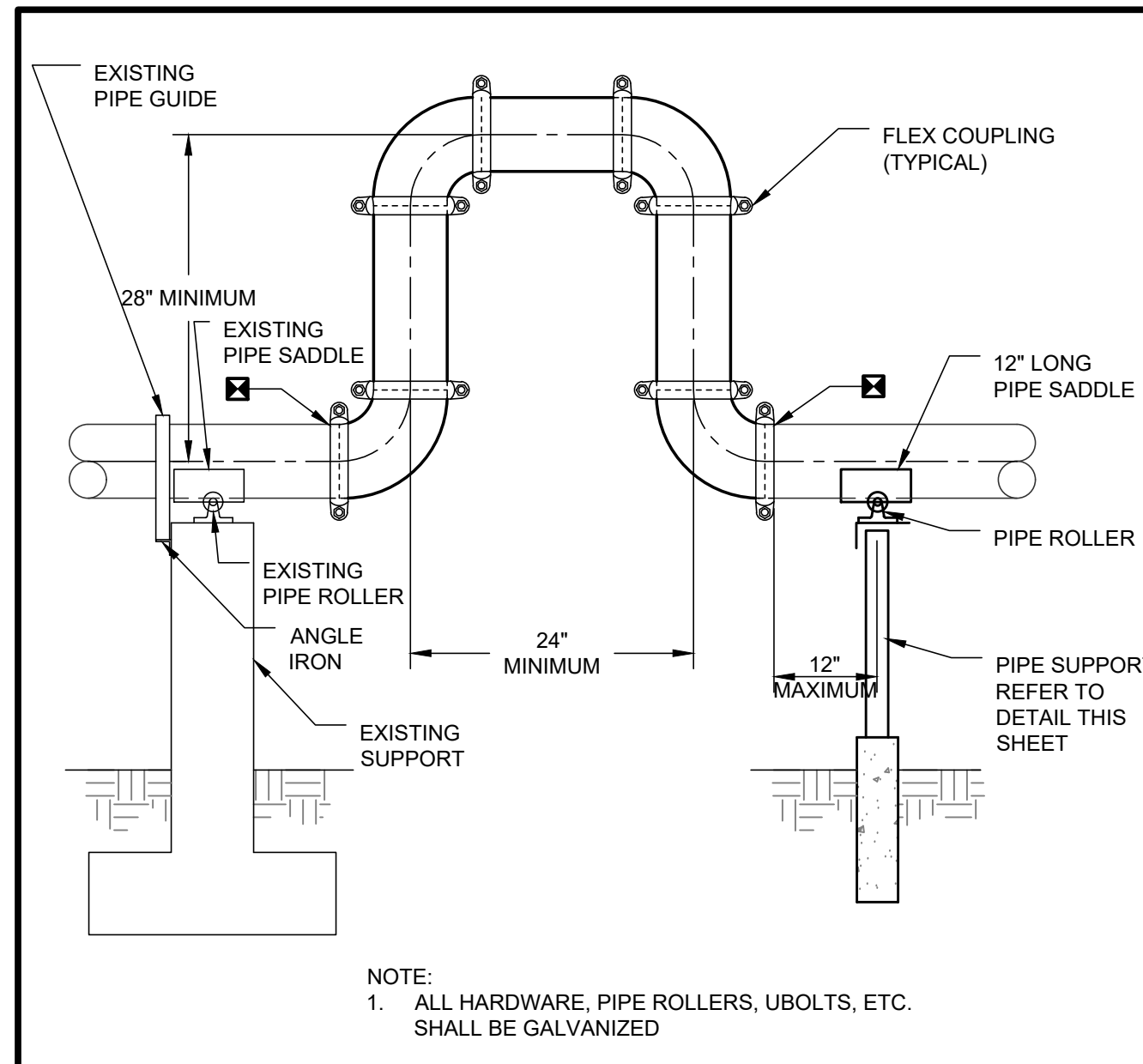
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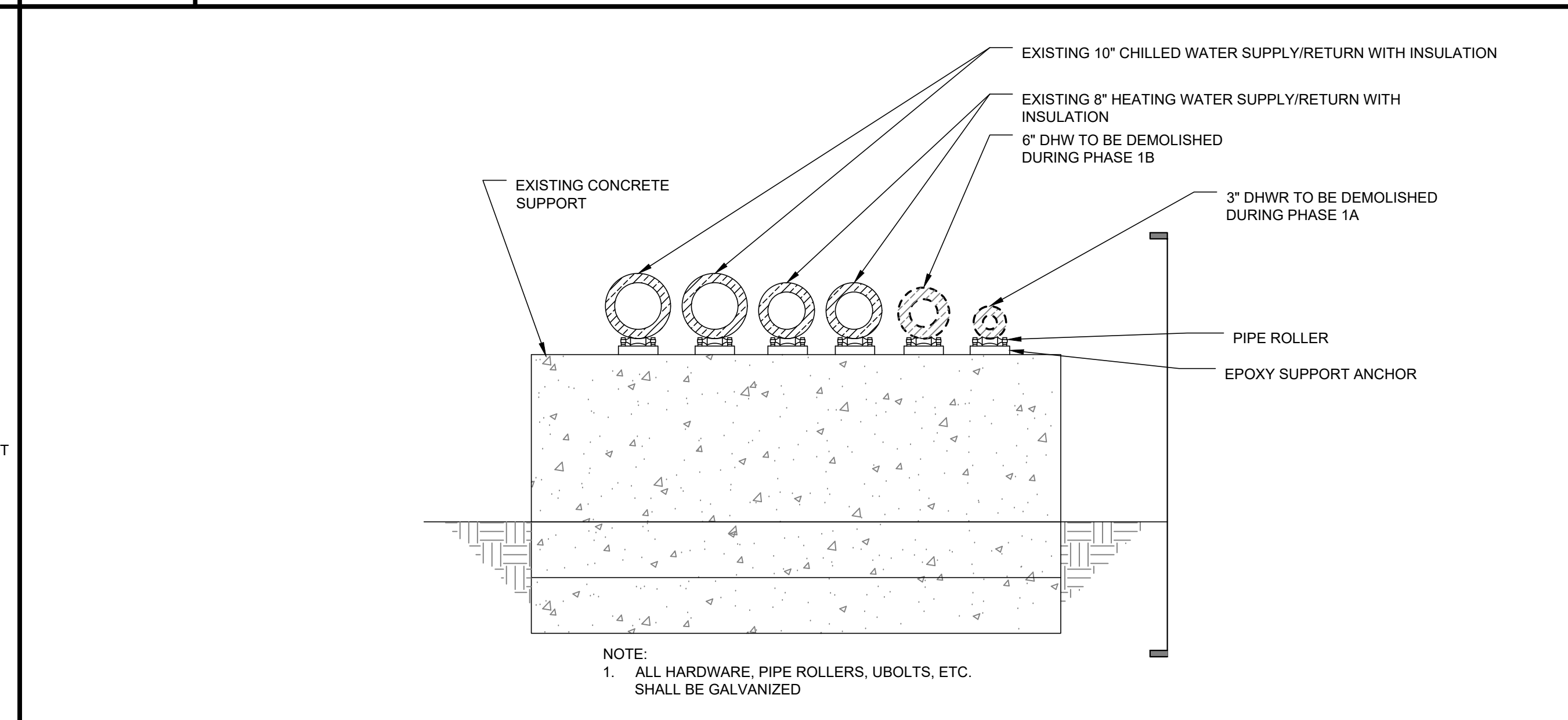
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TYPICAL PIPE SUPPORT DETAIL - UTILITY LOOP  
NEW WORK



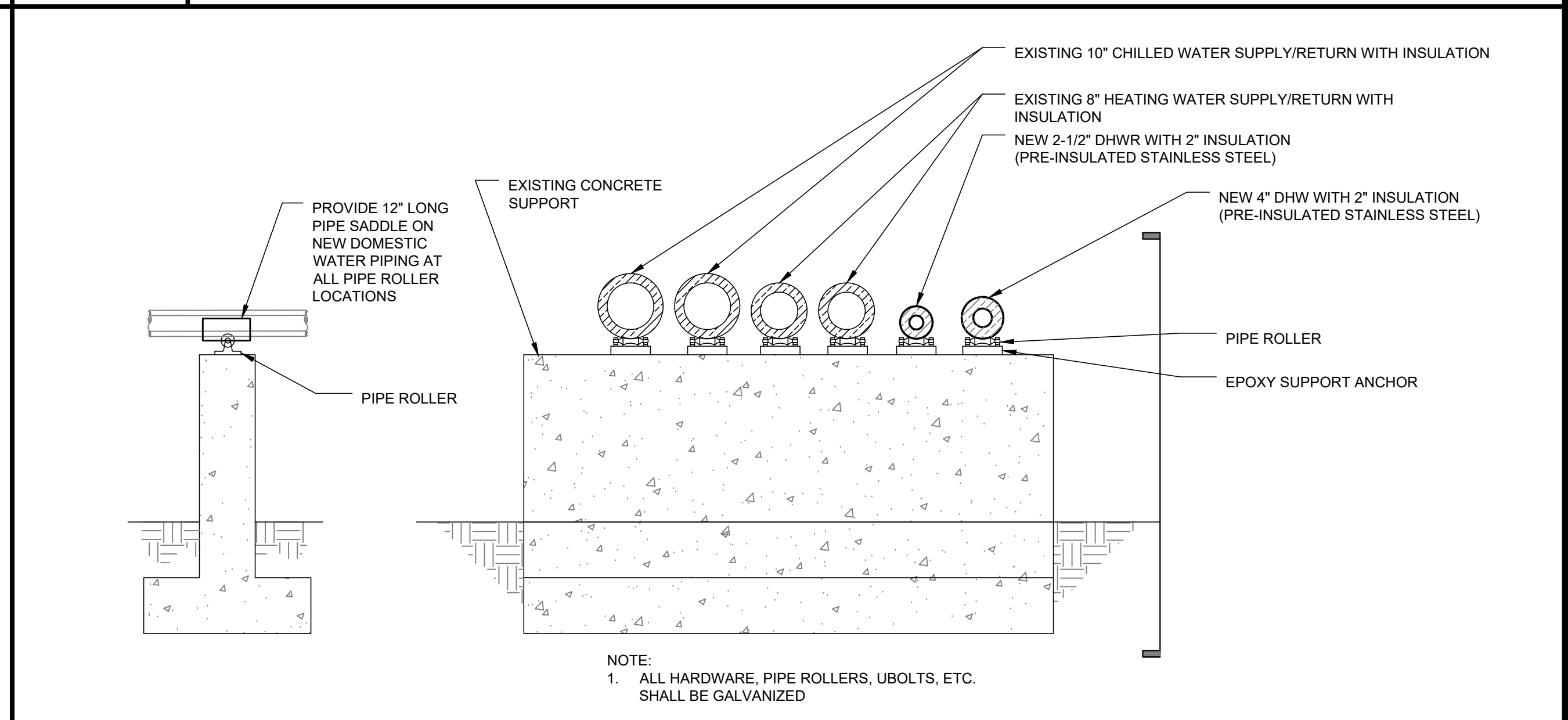
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TYPICAL PIPE SUPPORT DETAIL - UTILITY LOOP  
FINAL CONFIGURATION



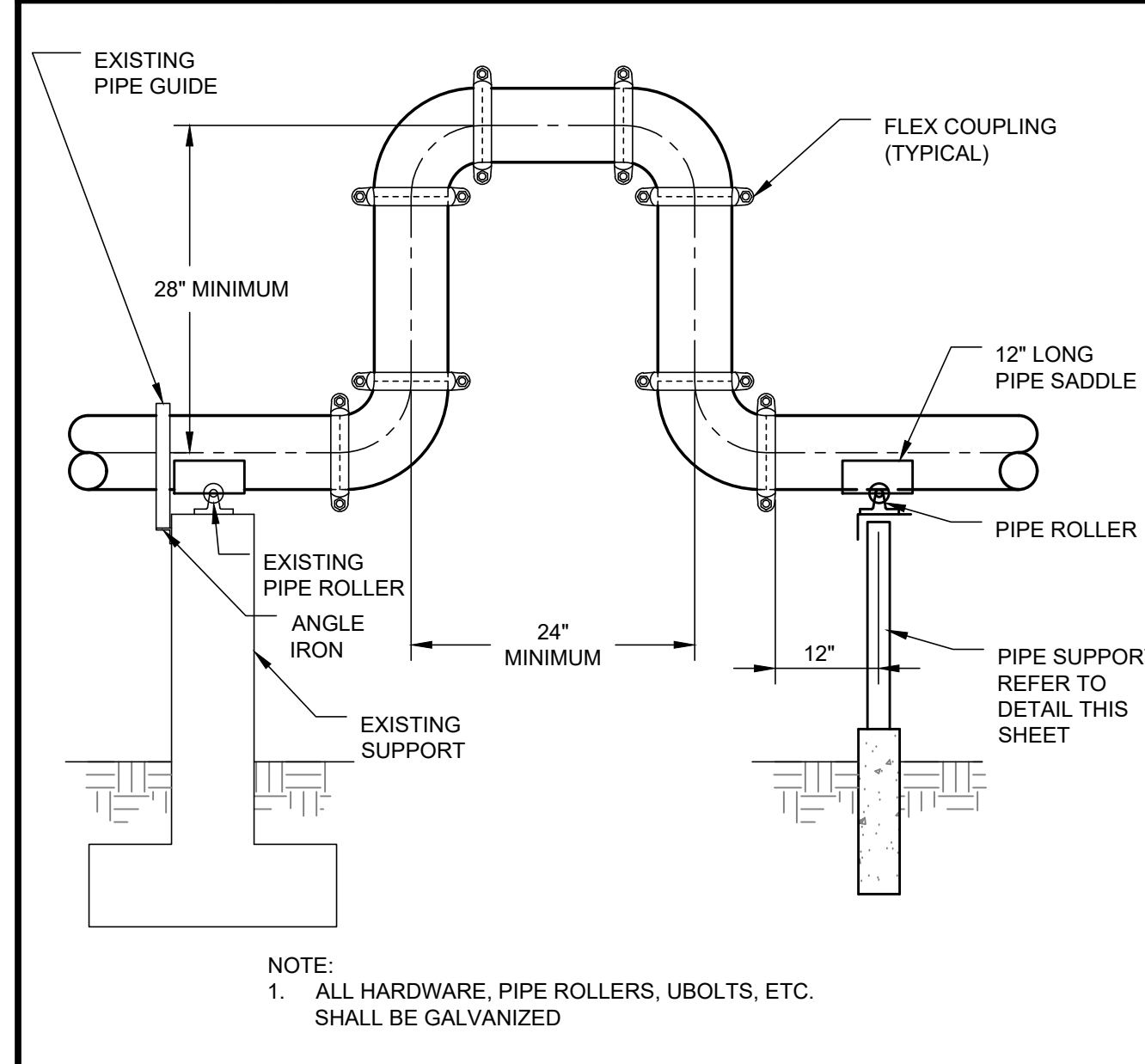
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SCALE: NONE  
TYPICAL HEATING WATER  
EXPANSION JOINT DETAIL



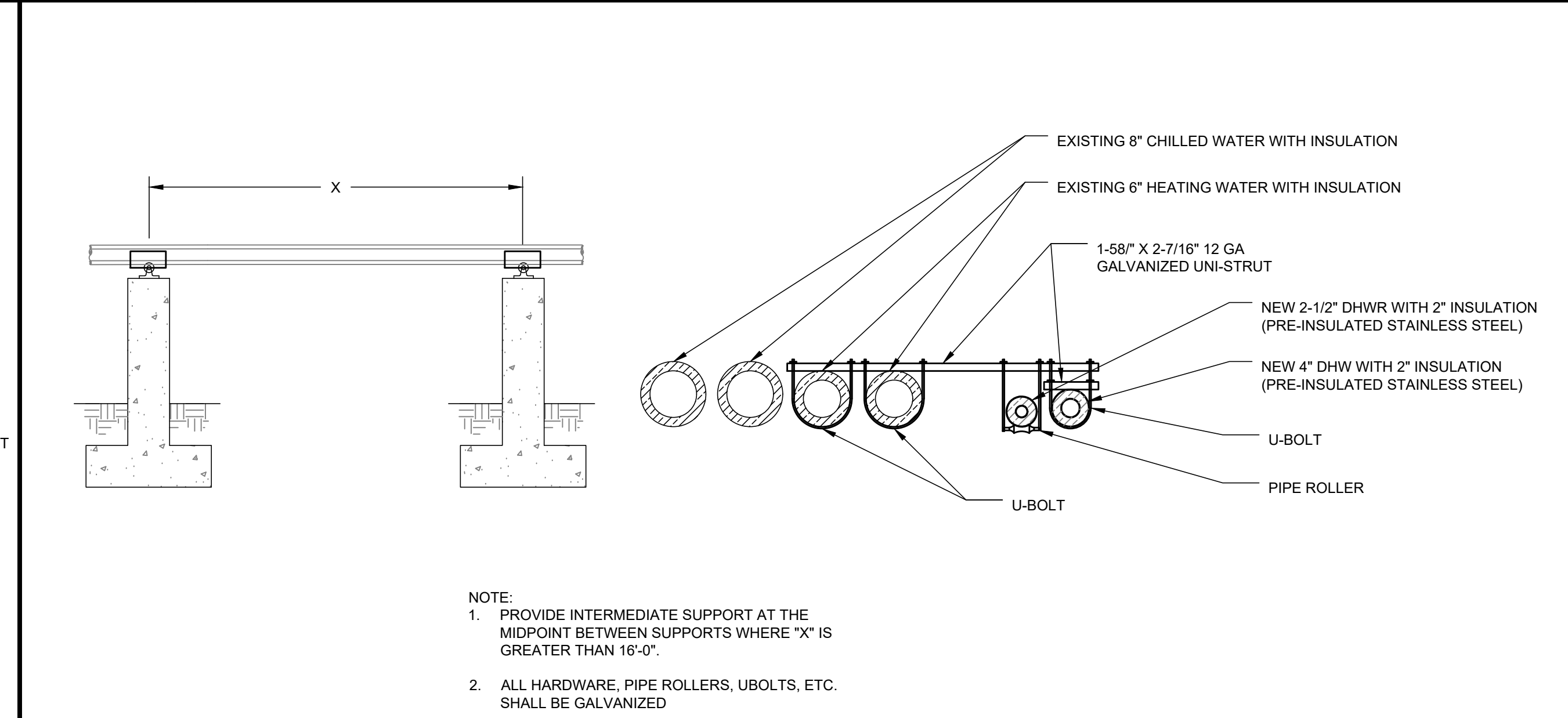
FILE NAME: \_\_\_\_\_  
SCALE: NONE  
TYPICAL PIPE SUPPORT DETAIL - FROM POWER PLANT TO LOOP  
DEMOLITION



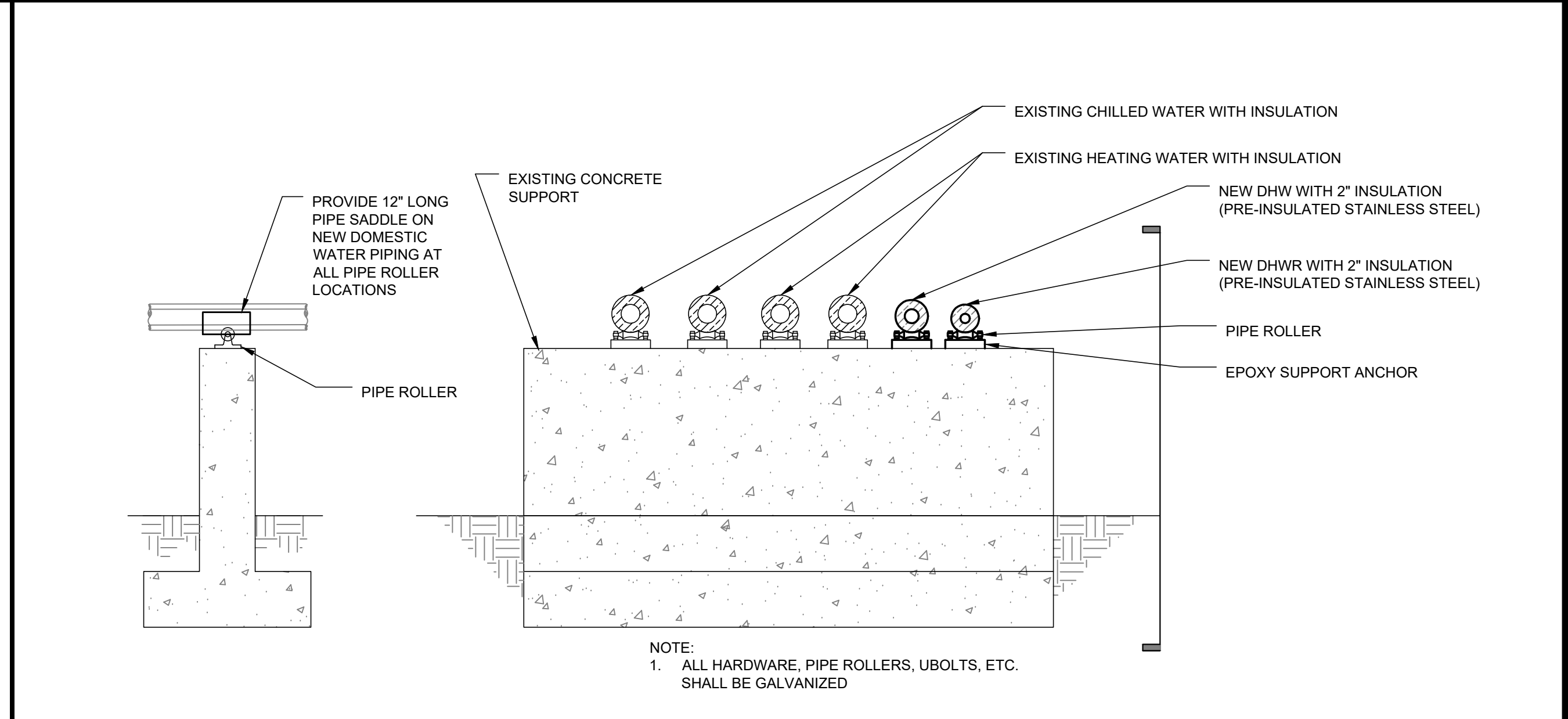
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TYPICAL PIPE SUPPORT DETAIL - FROM POWER PLANT TO LOOP  
NEW WORK



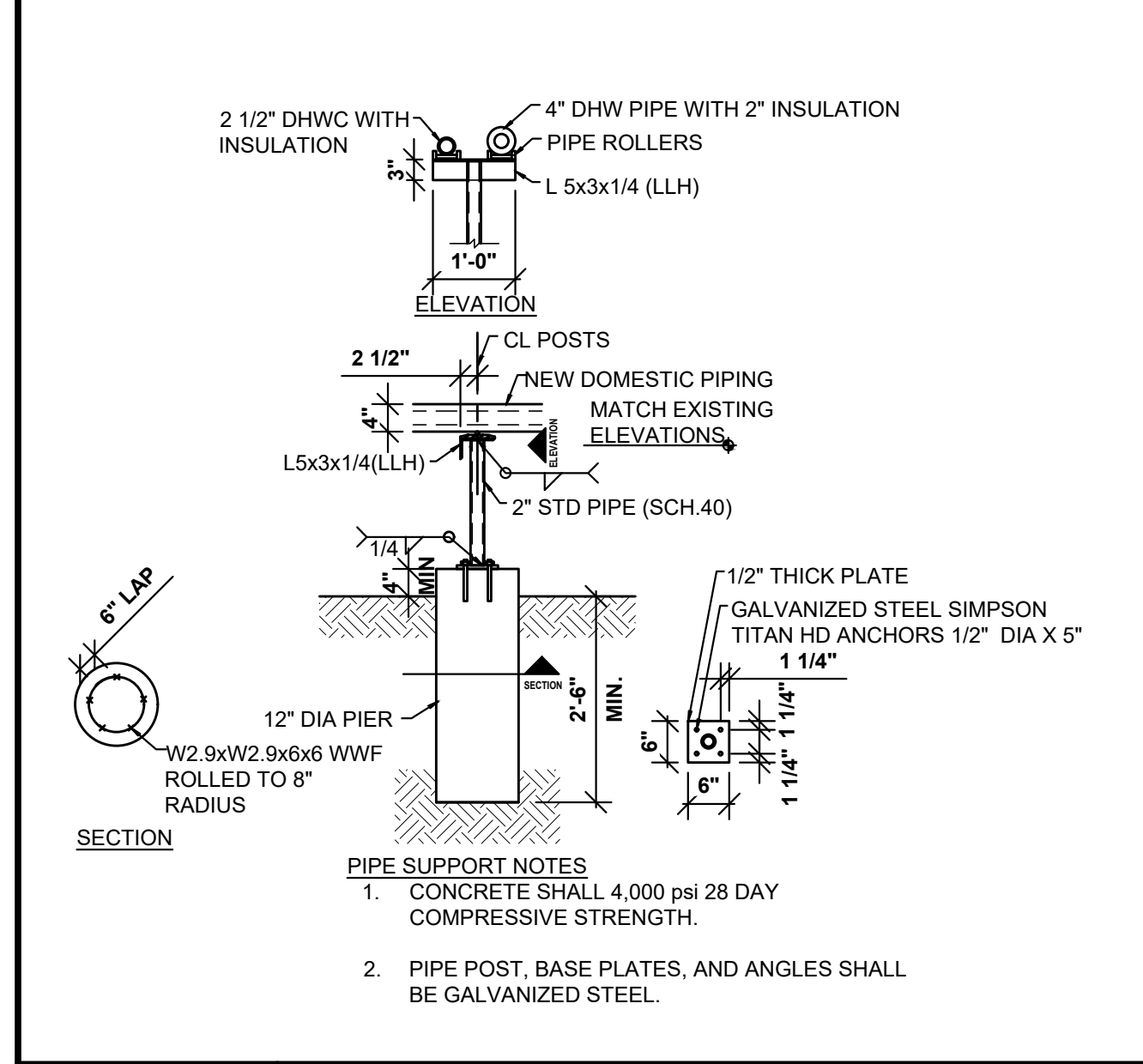
FILE NAME: \_\_\_\_\_  
SCALE: NONE  
TYPICAL DOMESTIC WATER  
EXPANSION JOINT DETAIL



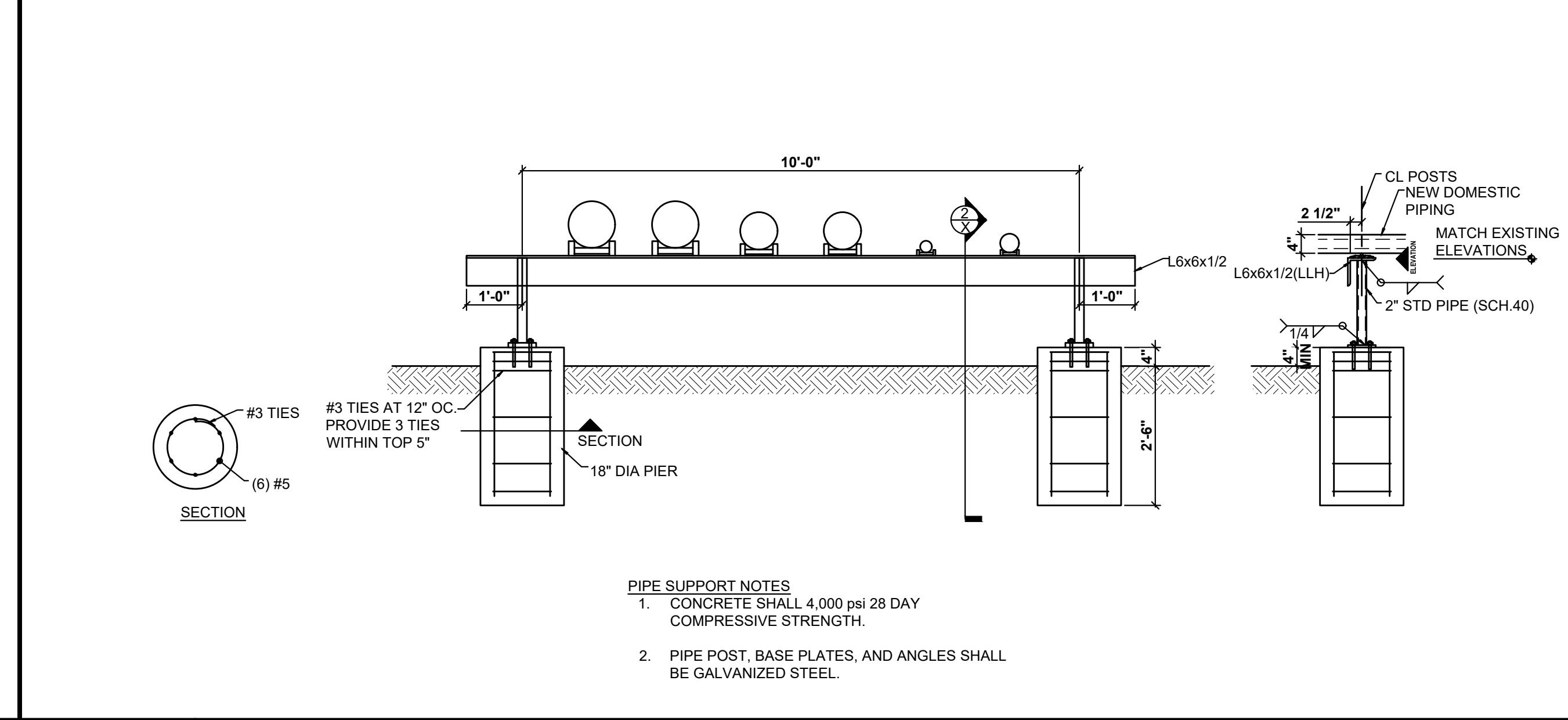
FILE NAME: \_\_\_\_\_  
SCALE: NONE  
PIPE SUPPORT DETAIL - INTERMEDIATE SUPPORT  
NEW WORK



FILE NAME: \_\_\_\_\_  
SCALE: NONE  
PIPE SUPPORT DETAIL - RUNOUT TO BUILDING  
NEW WORK



FILE NAME: \_\_\_\_\_  
SCALE: NONE  
TYPICAL EXPANSION JOINT SUPPORT DETAIL  
(DOMESTIC WATER PIPE ONLY) BASE BID



FILE NAME: \_\_\_\_\_  
SCALE: NONE  
TYPICAL EXPANSION JOINT PIPE SUPPORT DETAIL  
(FOR ALL PIPES) BID ALTERNATE #1

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300 PEDRO SIMMONS DR  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

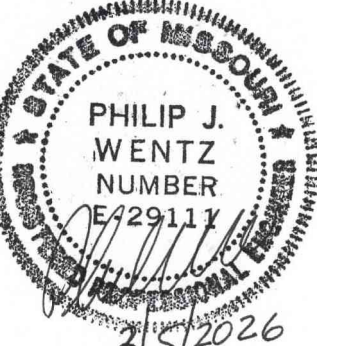
SHEET TITLE:  
DETAILS

SHEET NUMBER:  
M-501

17 OF 24 SHEETS  
03/05/2026

S:\075114.000 CHARLESTON RPLC DOM WATER LOOP & HOT WTR\03 MECHANICAL\M-501-075114.000.dwg 2026-3-6 09:28 Resallwasser

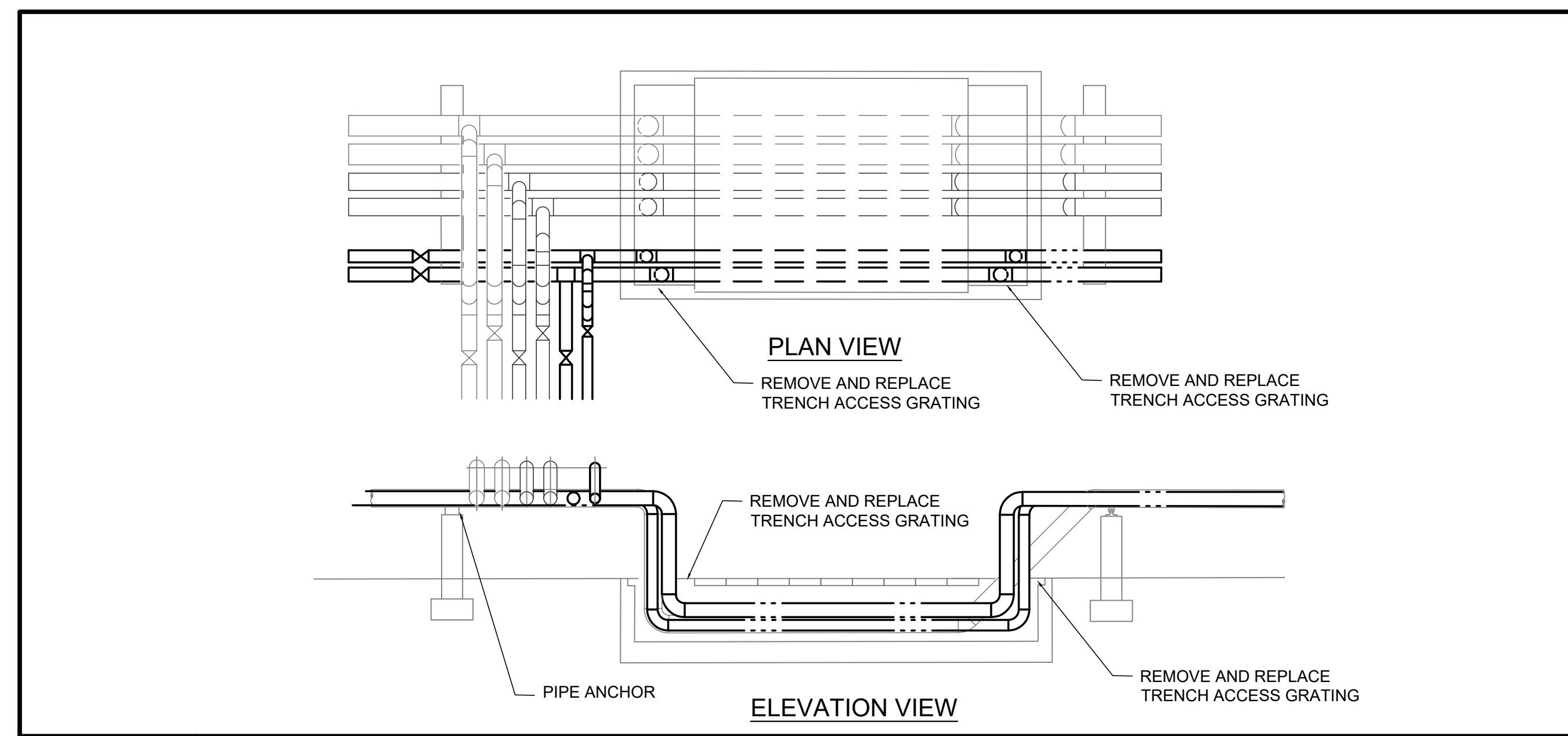




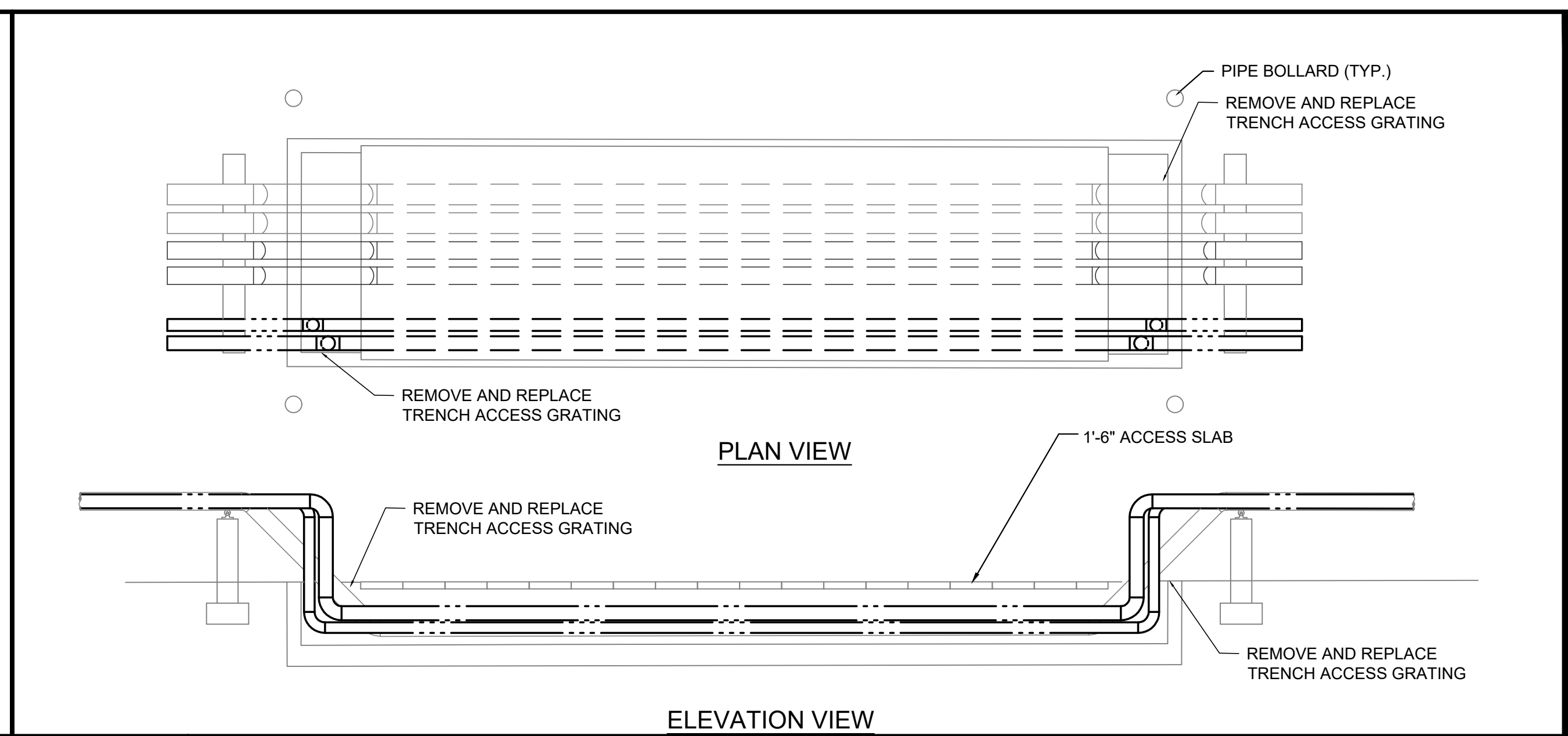
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MO COA: 000087

STRUCTURAL ENGINEER:  
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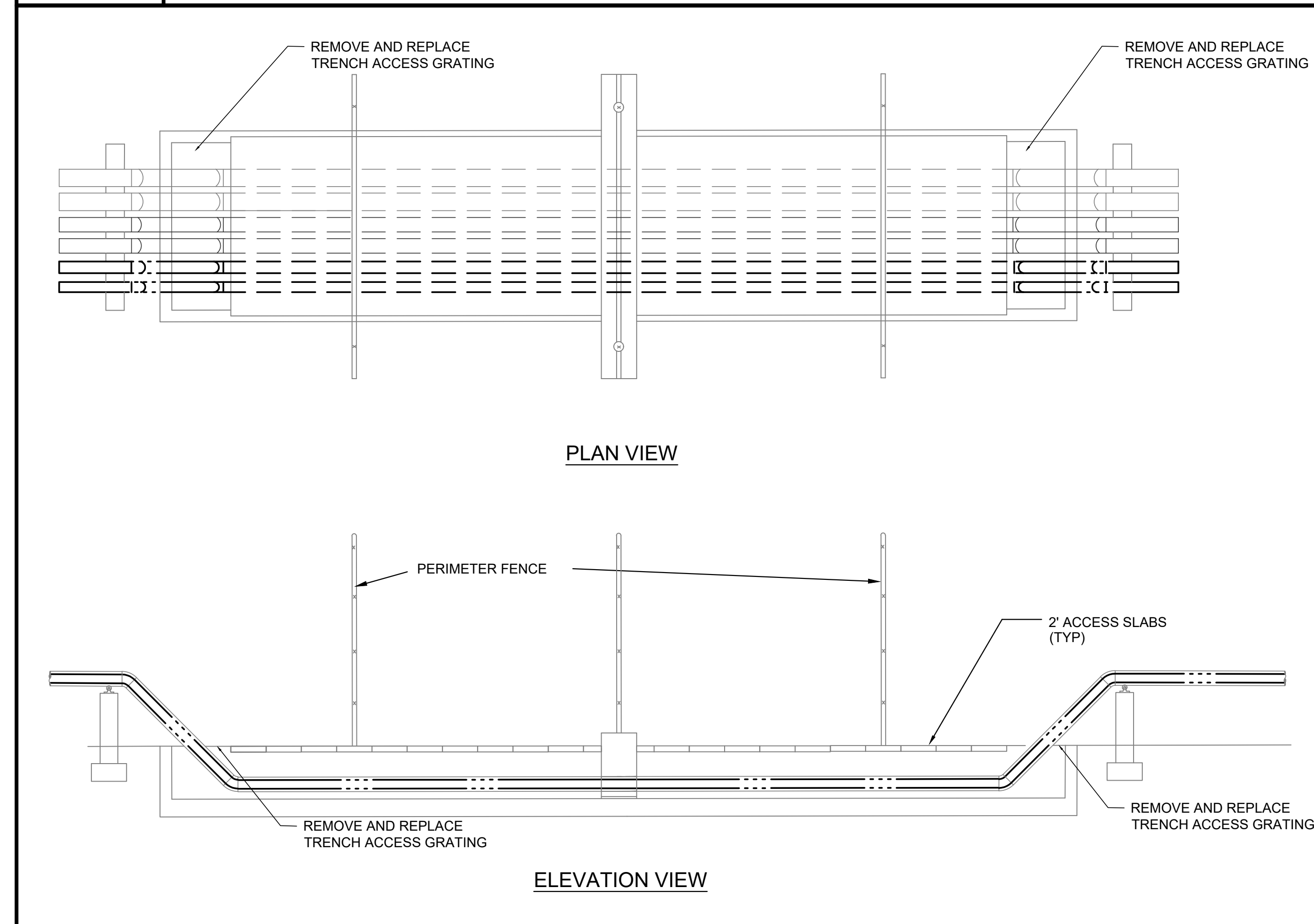
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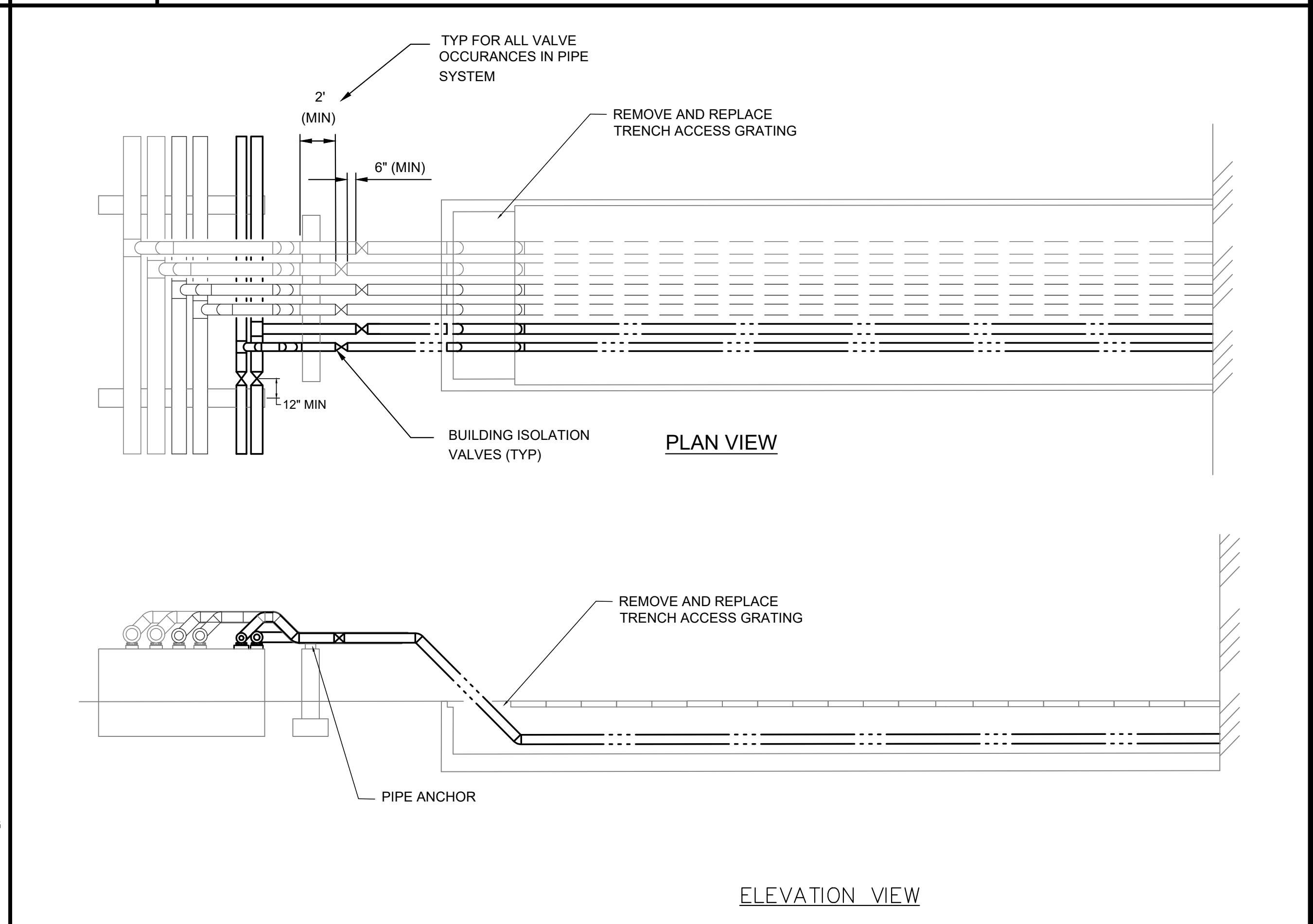
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TYPICAL UTILITY LOOP TRENCH HOUSING UNIT 2-6 ACCESS DETAIL - NEW WORK



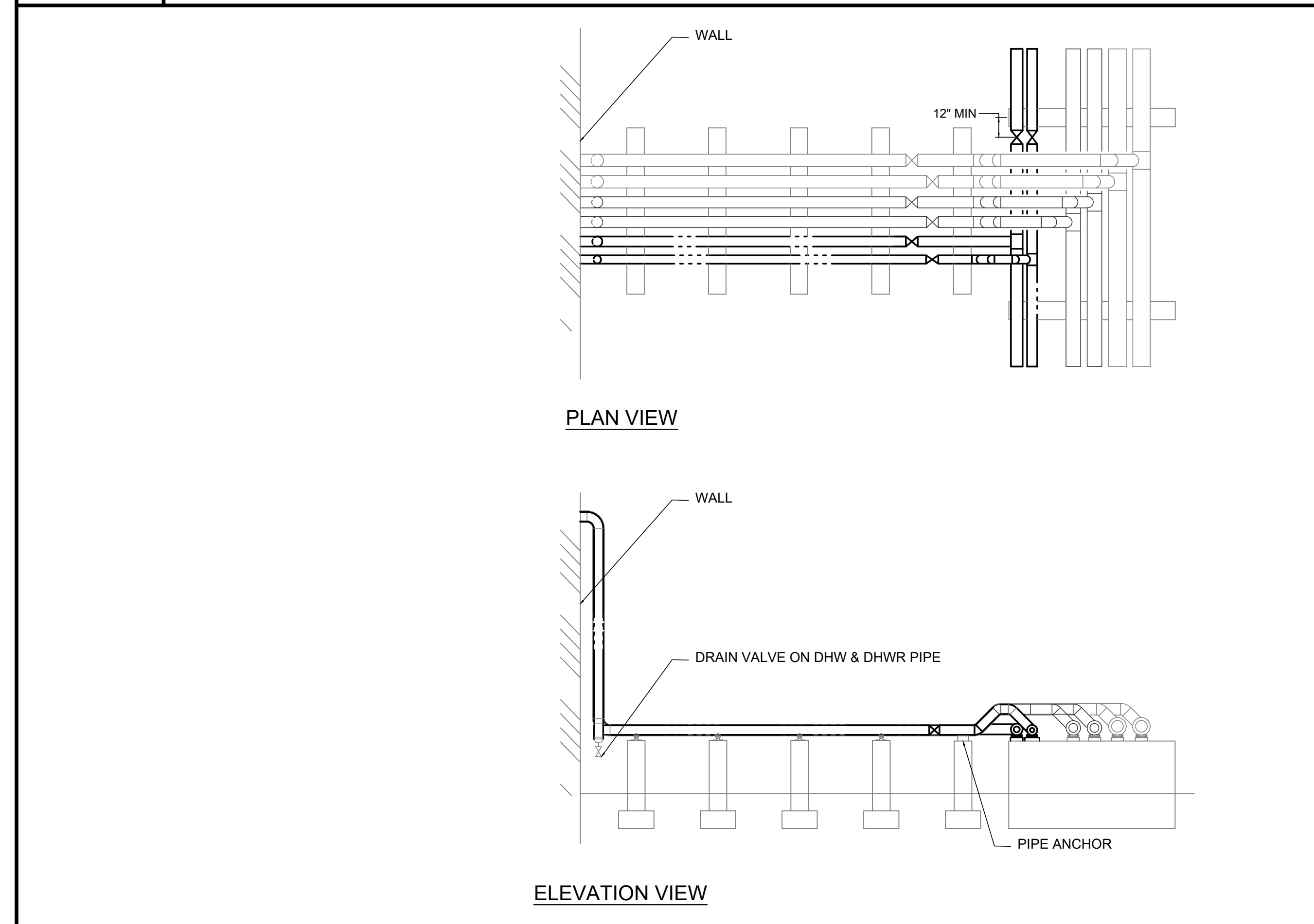
FILE NAME: 202X  
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TYPICAL UTILITY LOOP TRENCH ROAD CROSSING DETAIL - NEW WORK



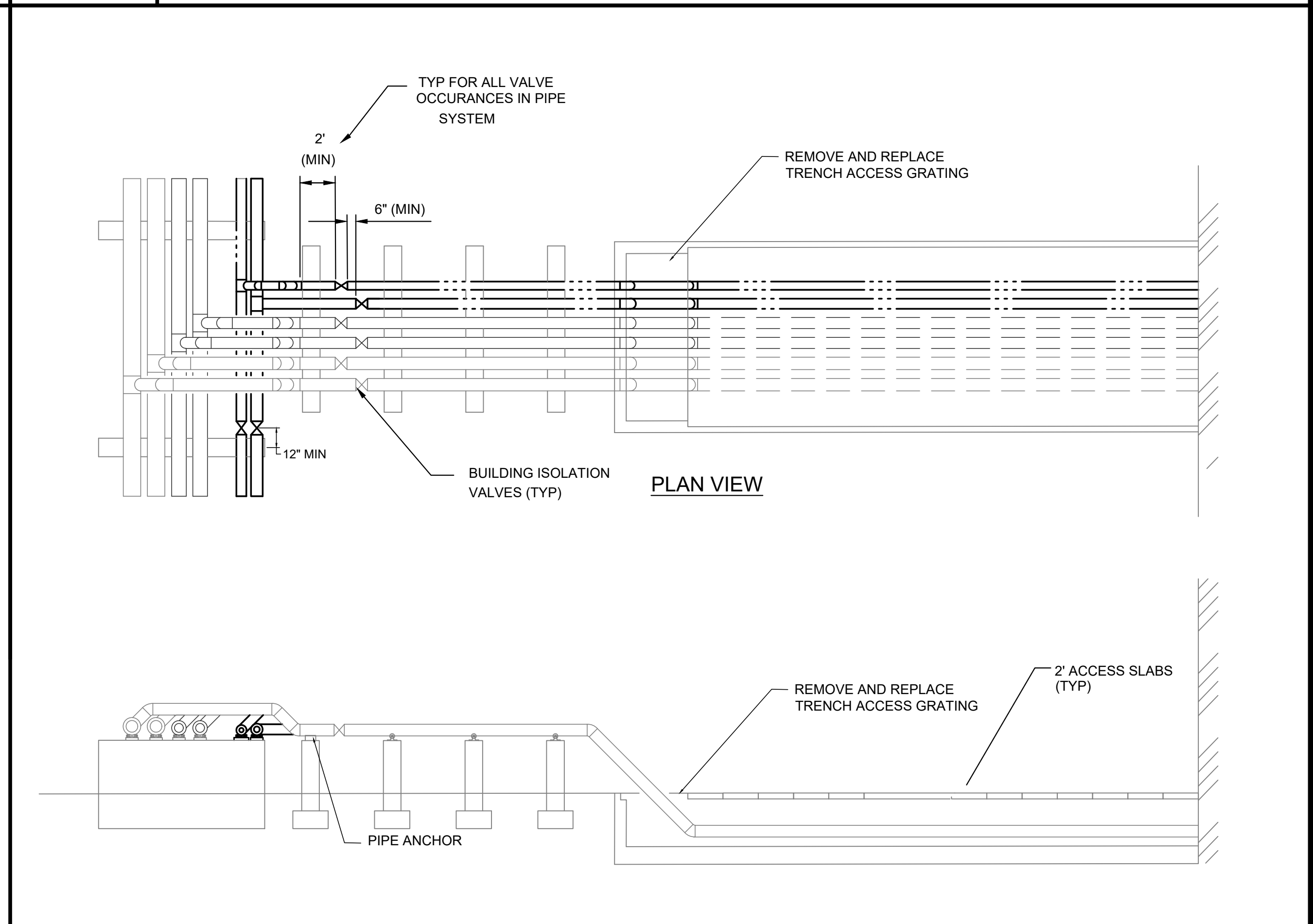
FILE NAME: 204X  
SCALE: NONE  
TYPICAL UTILITY LOOP TRENCH SECURITY FENCE CROSSING DETAIL - NEW WORK



FILE NAME: 203X  
SCALE: NONE  
UTILITY LOOP TRENCH CENTRAL SERVICES DETAIL - NORTH - NEW WORK



FILE NAME: 206X  
SCALE: NONE  
TYPICAL HOUSING UNIT 2-6 CONNECTION DETAIL - NEW WORK



FILE NAME: 205X  
SCALE: NONE  
UTILITY LOOP TRENCH CENTRAL SERVICES DETAIL - SOUTH - NEW WORK

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SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
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ISSUE DATE: 03/05/2026

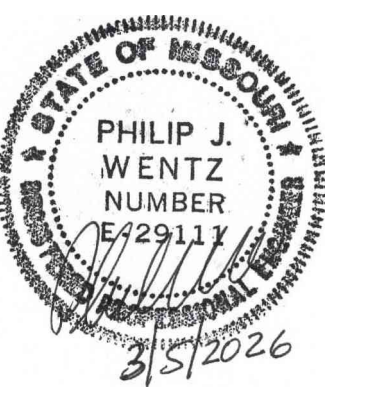
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CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
DETAILS

SHEET NUMBER:

M-503

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PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
MO COA: 000087

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DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: RCS  
CHECKED BY: TMP  
DESIGNED BY: CCW

SHEET TITLE:  
SCHEDULES

SHEET NUMBER:

**M-601**

20 OF 24 SHEETS  
03/05/2026

### HOT WATER RECIRCULATION PUMP SCHEDULE

UNIT DESIG.	LOCATION	SERVICE	MANUFACTURER & MODEL NO.	TYPE	PUMP DATA		MOTOR DATA			NOTES	
					FLOW (GPM)	HEAD (FT.)	W	RPM	VOLTS/PH		UNIT CONTROL
HWRP-H2	HOUSING UNIT #2	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-H3	HOUSING UNIT #3	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-H4	HOUSING UNIT #4	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-H5	HOUSING UNIT #5	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-H6	HOUSING UNIT #6	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-H7	HOUSING UNIT #7	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-SWC	S. W. CENTRAL SERVICES	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-NWC	N. W. CENTRAL SERVICES	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	
HWRP-SEA	S. E. ADMINISTRATION	DOM. HW RECIRC	GRUNDFOS UPS 40-160 F	CIRCULATOR	40	35	890	3.463	115/1	ECM (MANUAL)	

NOTES:

# ELECTRICAL SYMBOLS

## POWER EQUIPMENT

- PANELBOARD
- DISTRIBUTION PANEL
- SWITCHBOARD
- TRANSFORMER, SEE PLAN FOR TYPE AND SIZE
- VARIABLE FREQUENCY DRIVE
- DISCONNECT SWITCH
- MANUAL STARTER 1 PHASE

## RECEPTACLES

- 4"x4"x2" JUNCTION BOX WITH FINISHED BLANK COVER RECESSED WALL MOUNTED +18" AFF UNO' ON FLOOR PLANS

## RECEPTACLE SUBSCRIPT

- G GROUND FAULT CIRCUIT INTERRUPTER
- WR WEATHER RESISTANCE
- WP WEATHERPROOF COVER

## MOTORS

- 208V, 1 PHASE MOTOR

## ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AL ALUMINUM
- C CONDUIT
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- EC ELECTRICAL CONTRACTOR
- EMT ELECTRICAL METALLIC TUBING
- G GROUND FAULT CIRCUIT INTERRUPTER
- GRD GROUND
- MCB MAIN CIRCUIT BREAKER
- NLO MAIN LUG ONLY
- NC NORMALLY CLOSED
- NF NON FUSED
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- PVC PVC CONDUIT
- UNO UNLESS NOTED OTHERWISE
- WP WEATHERPROOF COVER

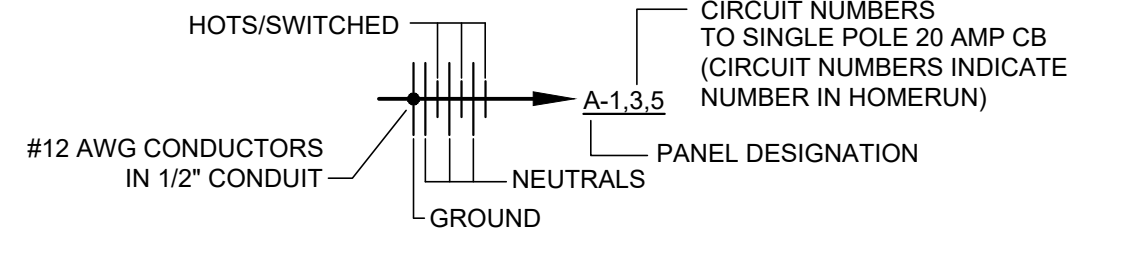
## MOUNTING HEIGHTS

ALL MOUNTING HEIGHTS ARE AS GIVEN UNLESS OTHERWISE NOTED ON PLANS  
 ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE/LIGHT FIXTURE, UNLESS OTHERWISE NOTED

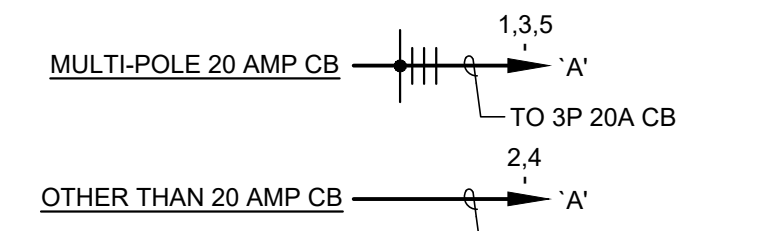
## WIRING SYMBOLS

- CONDUIT DOWN
- CONDUIT UP
- CONDUIT CAPPED
- EXISTING
- DEMOLITION WORK
- NEW WORK
- CONDUIT CONCEALED IN SLAB OR IN ACCESSIBLE CEILING SPACE BELOW
- CONDUIT EXPOSED
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING

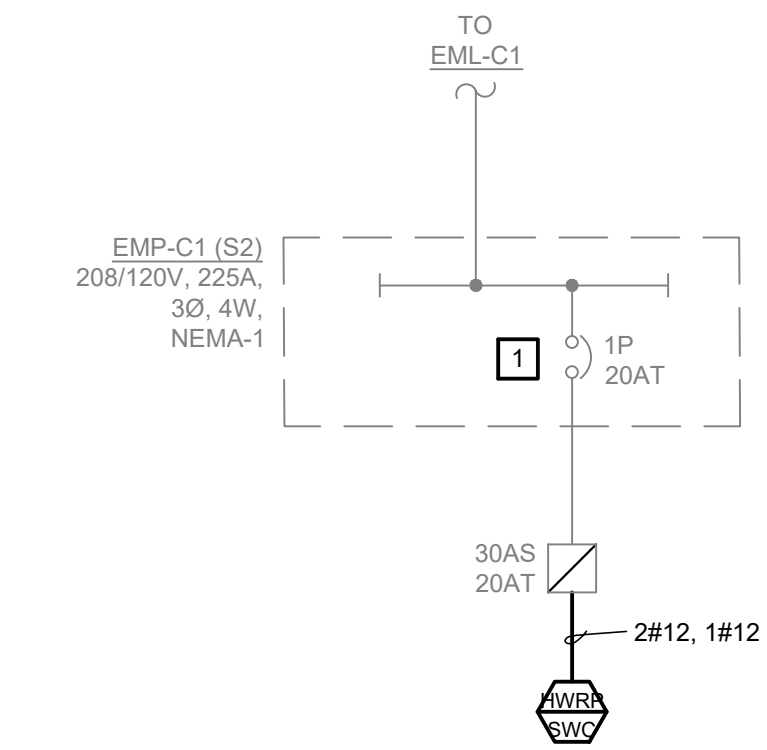
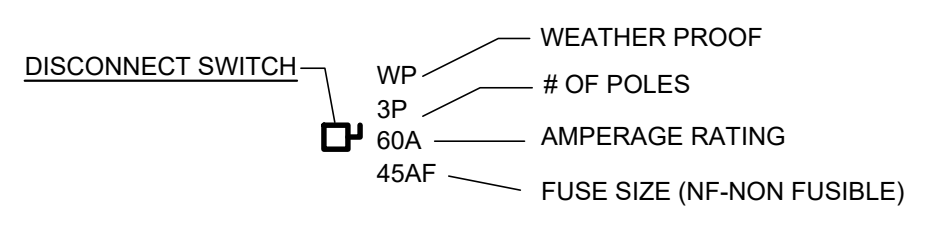
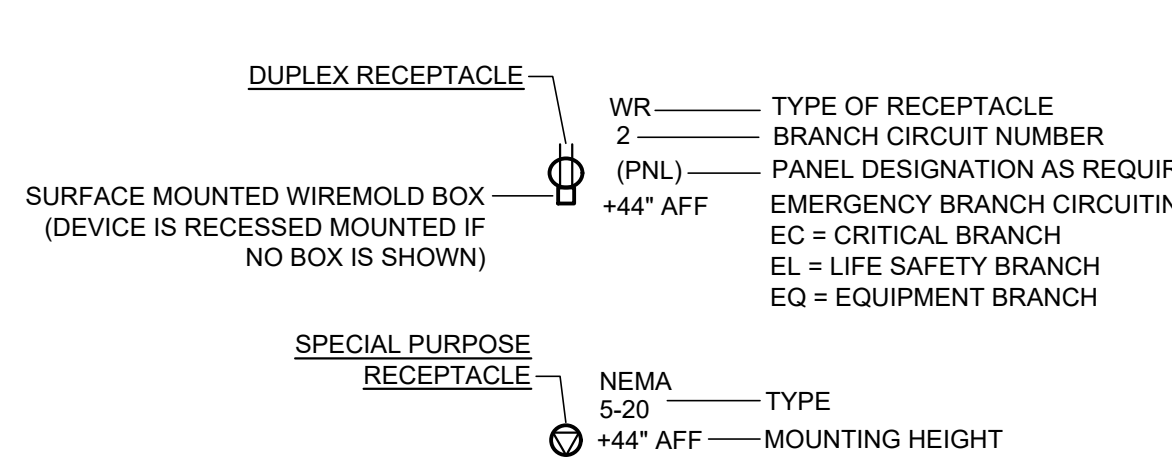
## BRANCH CIRCUITING LEGEND



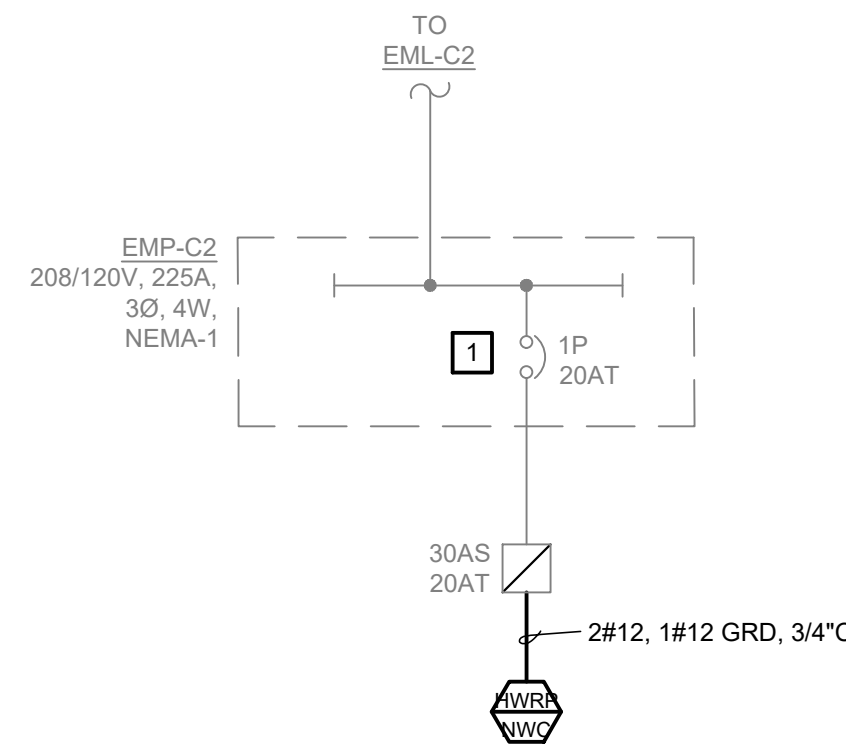
NOTE: HASH MARKS INDICATE #12 AWG CONDUCTORS ONLY SEE FLOOR PLANS FOR OTHER FEEDER CONDUCTORS AND CONDUIT SIZES



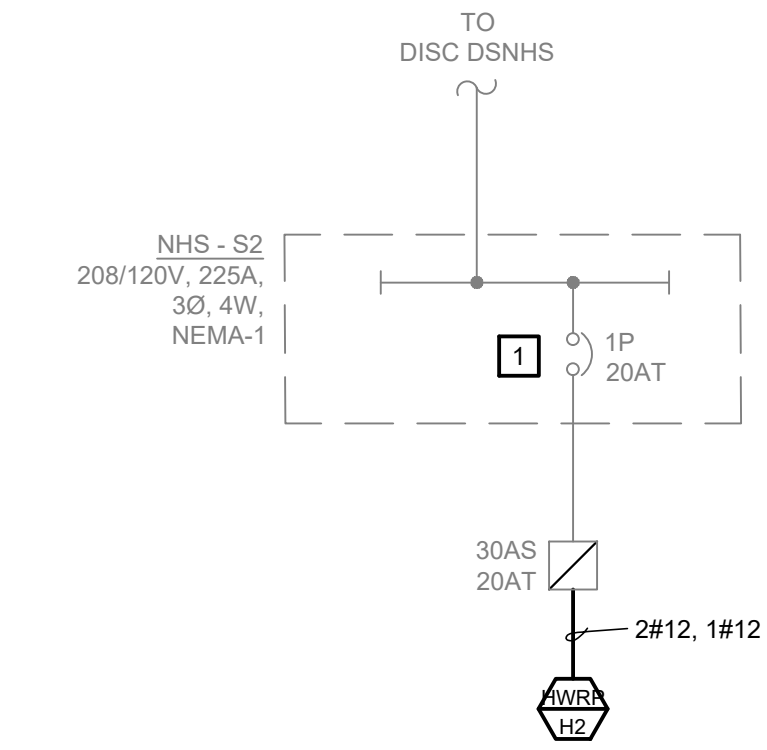
20A BRANCH CIRCUIT HOMERUNS SHALL BE SIZED AS FOLLOWS:  
 120V: 0-100 FEET SHALL BE #12AWG WIRE MINIMUM  
 101-200 FEET SHALL BE #10AWG WIRE MINIMUM  
 IN EXCESS OF 200 FEET SHALL BE #8AWG WIRE MINIMUM  
 277V: 0-250 FEET SHALL BE #12AWG WIRE MINIMUM  
 IN EXCESS OF 250 FEET SHALL BE #10AWG WIRE MINIMUM



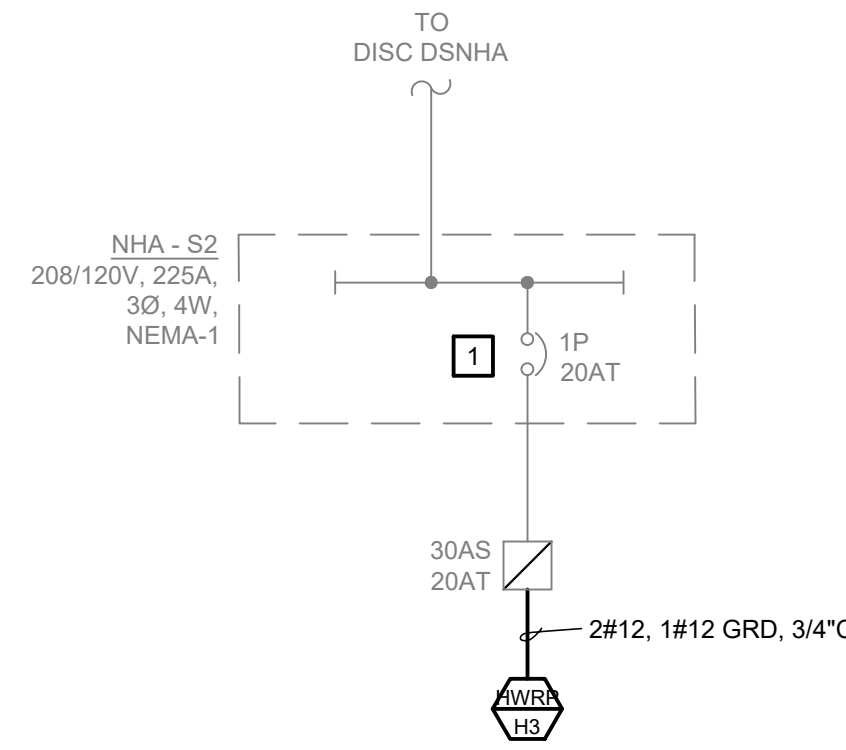
PARTIAL ONE-LINE DIAGRAM  
S.W. CENTRAL SERVICES



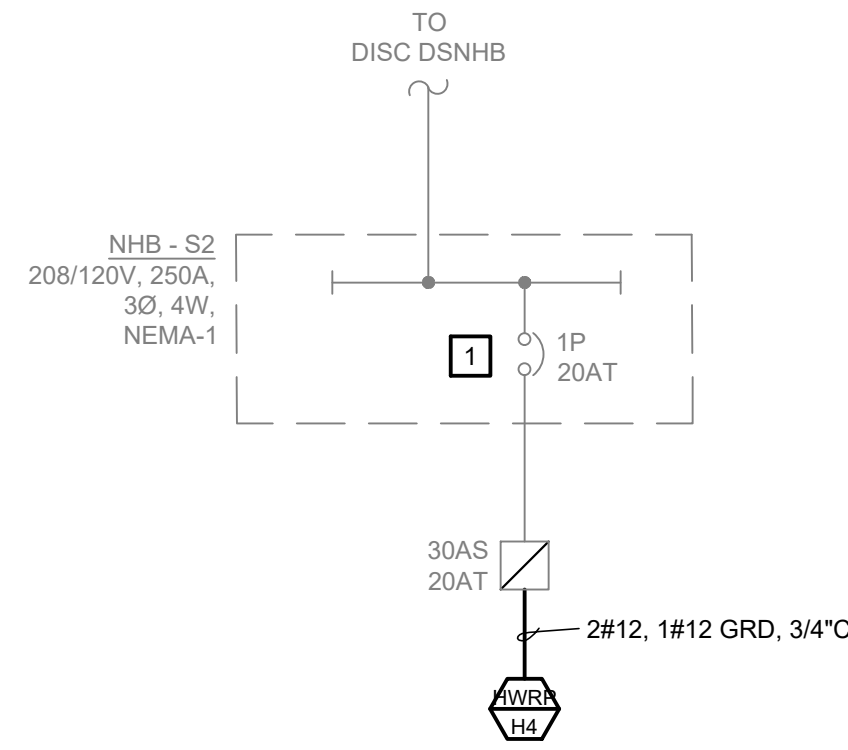
PARTIAL ONE-LINE DIAGRAM  
N.W. CENTRAL SERVICES



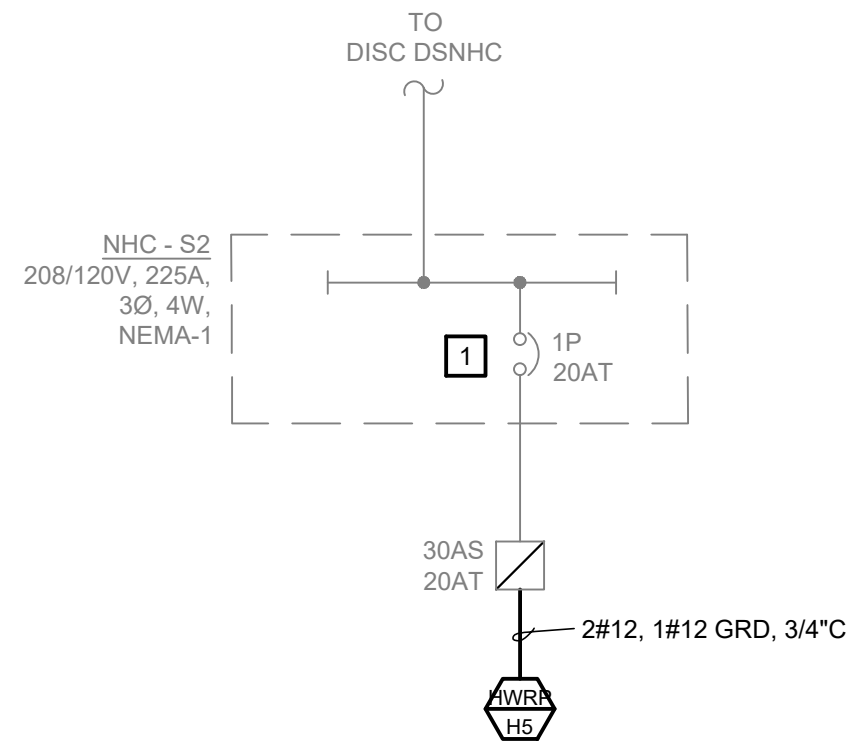
PARTIAL ONE-LINE DIAGRAM  
HOUSING UNIT #2



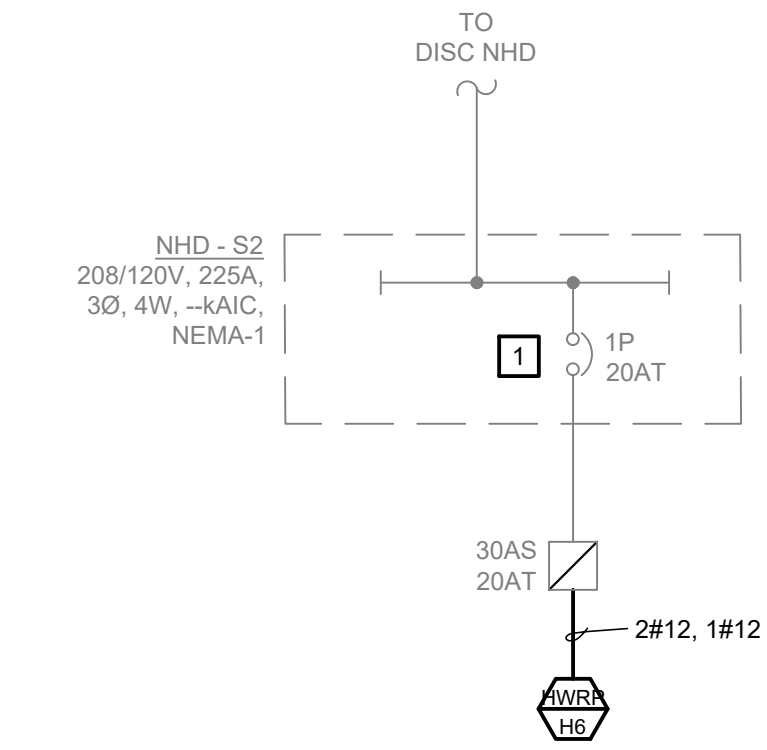
PARTIAL ONE-LINE DIAGRAM  
HOUSING UNIT #3



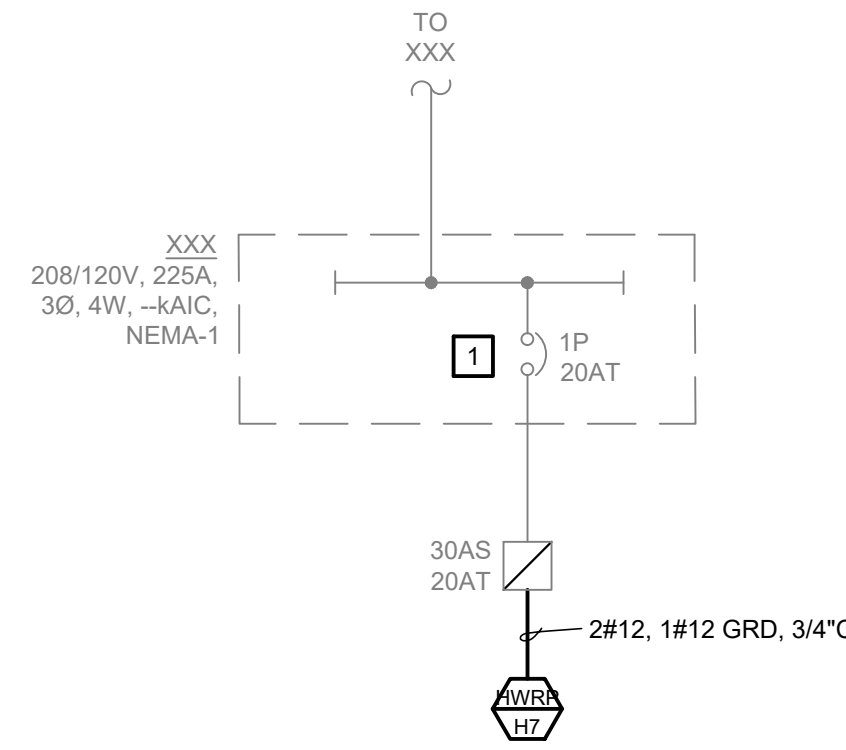
PARTIAL ONE-LINE DIAGRAM  
HOUSING UNIT #4



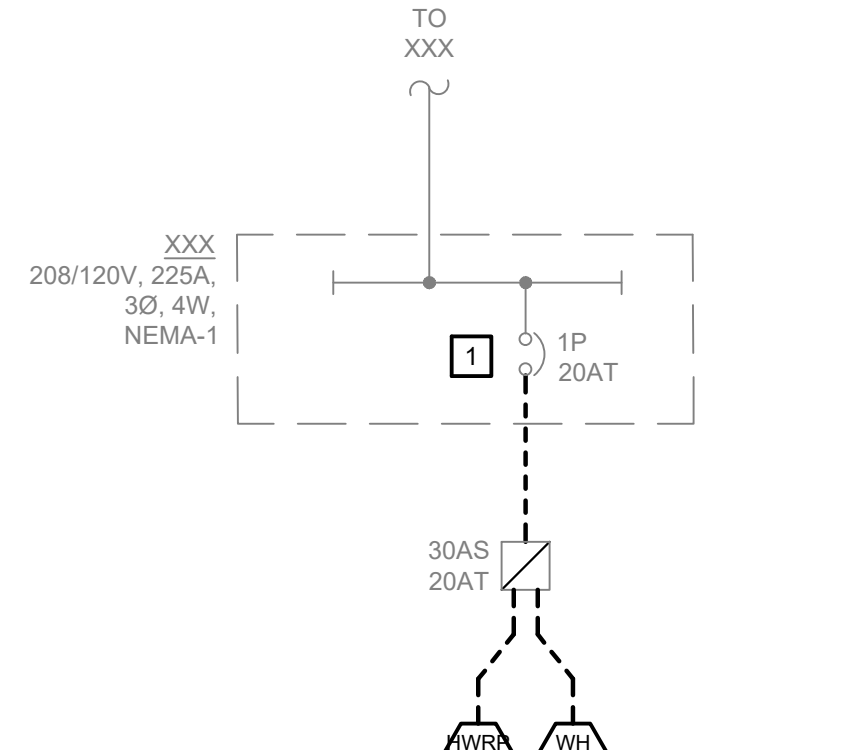
PARTIAL ONE-LINE DIAGRAM  
HOUSING UNIT #5



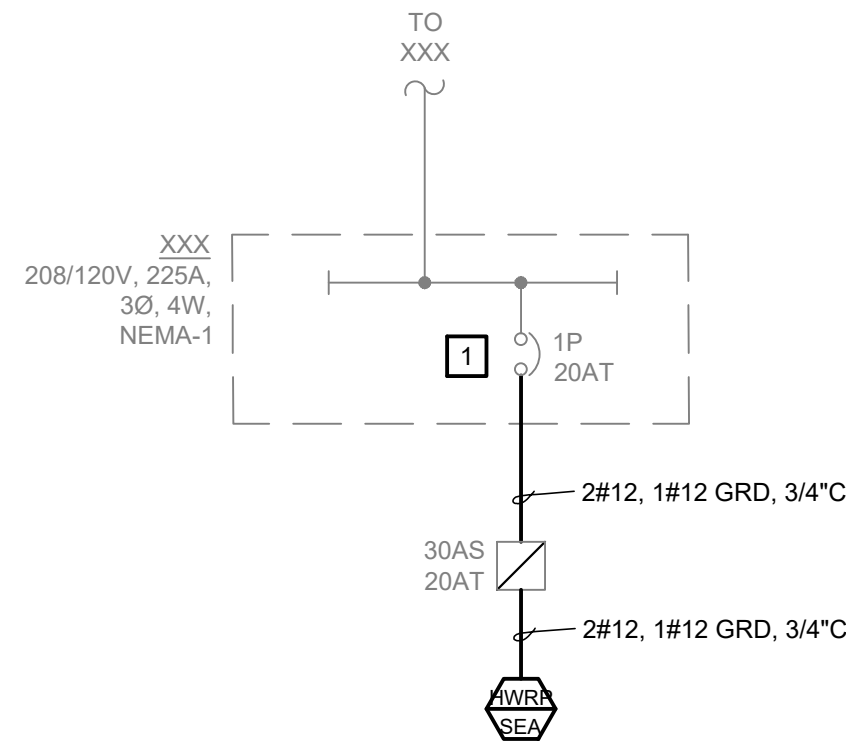
PARTIAL ONE-LINE DIAGRAM  
HOUSING UNIT #6



PARTIAL ONE-LINE DIAGRAM  
HOUSING UNIT #7



PARTIAL ONE-LINE DIAGRAM  
S.E. ADMINISTRATION  
DEMOLITION WORK



PARTIAL ONE-LINE DIAGRAM  
S.E. ADMINISTRATION  
NEW WORK

## MECHANICAL-ELECTRICAL INTERFACE

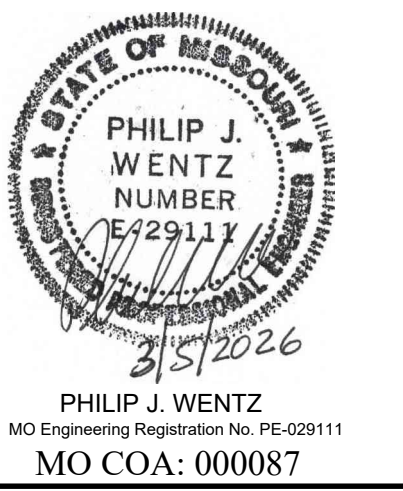
EQUIP. ID	EQUIPMENT DESCRIPTION	MOTOR DATA		BRANCH CIRCUIT DATA		SOURCE DATA		UNIT CONTROLS					EQUIPMENT DISCONNECT					REMARKS					
		HP / (KW)	VOLTAGE / PHASE	FEEDER SIZE	SOURCE:	TYPE <sup>1</sup> / POLES	OCB SWITCH/FUSE SIZE or CB TRIP (A)	TYPE <sup>2</sup>	TYPE <sup>1</sup>	SWITCH/FUSE or CB TRIP	NEMA RATING	F	I	C	EQUIP. ID	SWITCH SIZE	POLE		OCB SIZE	NEMA RATING	F	I	C
HWRP-H2	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	NHS-S2	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-H2	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-H3	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	NHS-S2	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-H3	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-H4	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	NHS-S2	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-H4	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-H5	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	NHC-S2	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-H5	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-H6	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	NHD-S2	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-H6	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-H7	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	EXISTING	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-H7	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-SWC	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	EMP-C1 (S2)	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-SWC	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-NVC	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	EMP-C2	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-NVC	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT
HWRP-SEA	HOT WATER RECIRCULATION PUMP	0.25	HP 120 / 1	2#12, 1#12 GRD-3/4" C	EXISTING	CB / 1	20	MAN	NA	20	1	N	N	E	HWRP-SEA	30	1	NA	1	N	N	E	EXISTING MANUAL MOTOR STARTER WITH DISCONNECT

(KW)<sup>2</sup> HORSEPOWER IS SHOWN UNLESS KILOWATTS (KW) OR MINIMUM CIRCUIT AMPACITY (MCA) IS CALLED OUT

TYPE<sup>1</sup>: FS FUSED SWITCH CB CIRCUIT BREAKER NA NOT APPLICABLE

TYPE<sup>2</sup>: COMB MAG MAN FWCPC VFD - 4KHZ VFD - 12KHZ TOG TST RIB 2S1W 2S2W NA  
 COMBINATION MAGNETIC STARTER / DISCONNECT SWITCH OR CIRCUIT BREAKER  
 MAGNETIC STARTER  
 MANUAL MOTOR STARTER  
 PRE-WIRED CONTROL PANEL  
 VARIABLE FREQUENCY DRIVE - MAXIMUM CARRIER FREQUENCY OF 4KHZ  
 VARIABLE FREQUENCY DRIVE - MAXIMUM CARRIER FREQUENCY OF 12KHZ  
 TOGGLE SWITCH (HORSEPOWER RATE)  
 THERMOSTAT  
 RELAY IN A BOX  
 2-SPEED 1-WINDING MAGNETIC STARTER  
 2-SPEED 2-WINDING MAGNETIC STARTER  
 NOT APPLICABLE

F I C<sup>3</sup>: (FURNISHED, INSTALLED, CONNECTED)  
 M MECHANICAL PLUMBING, FIRE PROTECTION CONTRACTOR, OR FACTORY  
 E ELECTRICAL CONTRACTOR  
 N NOT APPLICABLE



STRUCTURAL ENGINEER:  
**Archer Elgin**  
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300 PEDRO SIMMONS DR  
 CHARLESTON, MO 63834

PROJECT # C2516-01  
 SITE# 7020  
 FACILITY# 9327020029

REVISION-0 - IFB SET  
 DATE: 03/05/2026  
 REVISION:  
 DATE:  
 REVISION:  
 DATE:  
 ISSUE DATE: 03/05/2026

DRAWN BY: AAC  
 CHECKED BY: AAG  
 DESIGNED BY: AAC

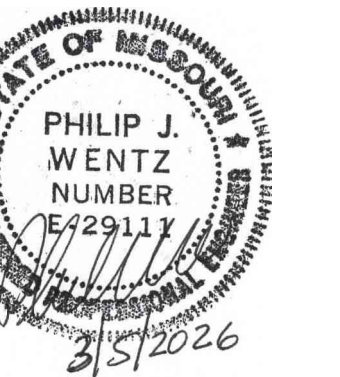
SHEET TITLE:  
**ELECTRICAL  
 ONE-LINES, SYMBOLS,  
 ABBREVIATIONS,  
 AND DETAILS**

SHEET NUMBER:

**E-001**

21 OF 24 SHEETS  
 03/05/2026

S:\075114.000 CHARLESTON RPLC DOM WATER LOOP & HOT WATER RECIRCULATION-001 - ELECTRICAL SYMBOLS, ABBREVIATIONS, & DETAILS - 075114.000.dwg 2026-3-5 16:42 Rfaalwassar



PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
MO COA: 000087

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**GENERAL DEMOLITION NOTES**

1. ALL SYMBOLS SHOWN DASHED ARE EXISTING ELECTRICAL DEVICES TO BE REMOVED OR AS NOTED. ALL SYMBOLS SHOWN SOLID LIGHT LINE ARE EXISTING ELECTRICAL DEVICES TO REMAIN. EXISTING ELECTRICAL DEVICES WHICH ARE TO REMAIN SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH ON EXISTING WALLS WHERE REQUIRED.
2. ALL EXISTING ELECTRICAL DEVICES IN A WALL THAT IS TO BE REMOVED; ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, CUT OFF CONDUCTORS AND CAP CONDUIT IN FLOOR OR CEILING AS REQUIRED. DEVICES ARE TO BE REMOVED ALONG WITH WALL BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED FROM WALLS WHICH ARE TO REMAIN; ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, REMOVE CONDUCTORS, REMOVE DEVICE AND PROVIDE BLANK COVERPLATES AS REQUIRED, UNLESS OTHERWISE NOTED.
4. FOR A PORTION OF A CIRCUIT WHICH IS REMOVED OR ABANDONED, RE-ESTABLISH CIRCUIT CONTINUITY FOR THE PORTION OF THE CIRCUIT WHICH IS TO REMAIN.
5. ALL EXISTING CONDUITS, RACEWAYS AND WIRING ROUTED IN EXISTING WALLS AND CEILING SPACES (WHICH ARE TO BE DEMOLISHED) WHICH SERVE OTHER AREAS SHALL BE REROUTED AS REQUIRED.
6. PROVIDE AND INSTALL SUPPORTS FOR EXISTING CABLES AND CONDUITS ABOVE CEILING THAT ARE CURRENTLY UNSUPPORTED IN ALL AREAS WHERE CEILING IS BEING REMOVED.

**GENERAL NOTES**

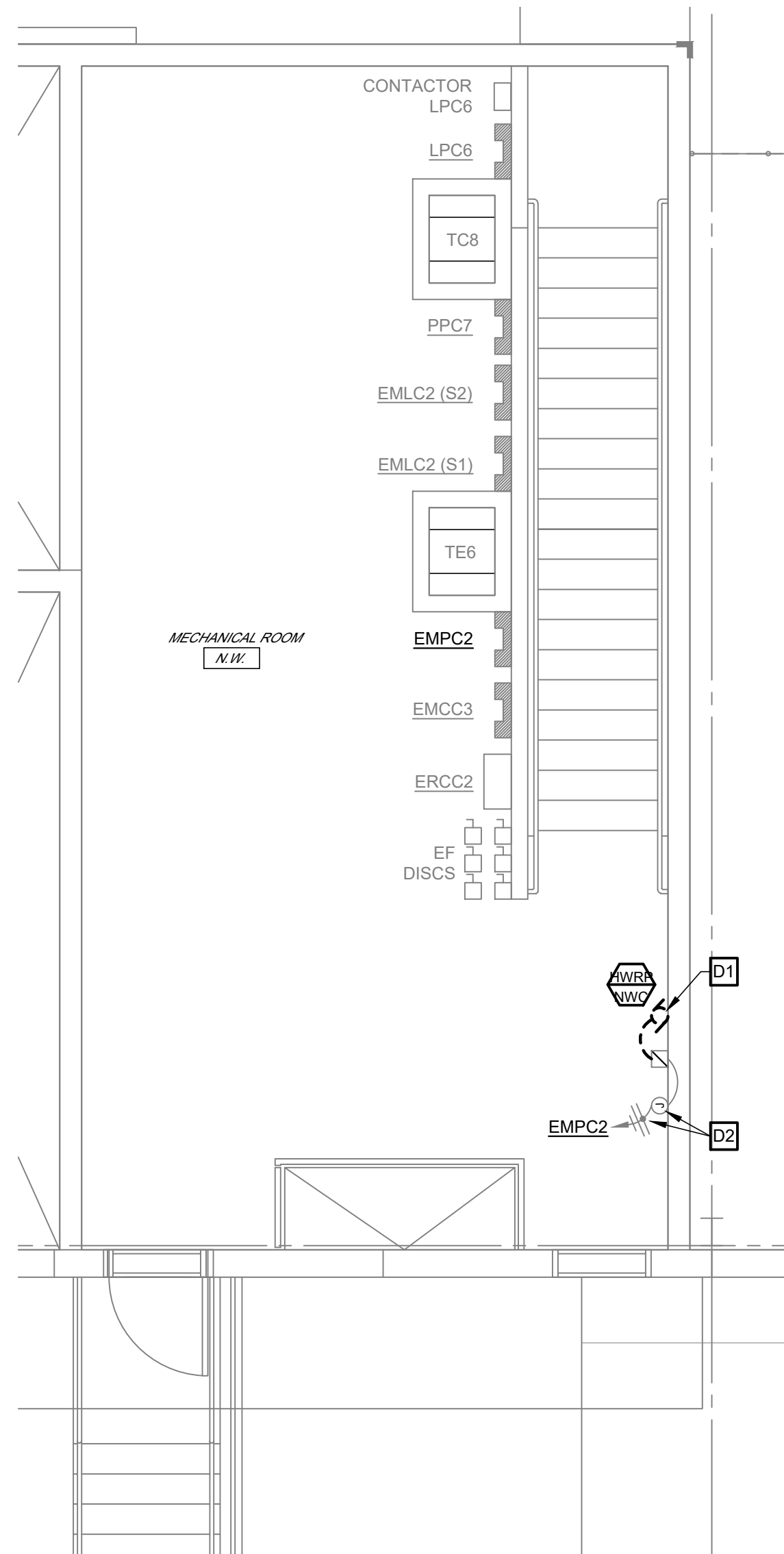
1. REFER TO SYMBOL LEGEND AND ONE-LINES FOR MORE INFORMATION.
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3. SEE MECHANICAL-ELECTRICAL INTERFACE SCHEDULE FOR EQUIPMENT FEEDER, UNIT CONTROL, AND DISCONNECT INFORMATION.
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**DEMOLITION WORK KEYED NOTES**

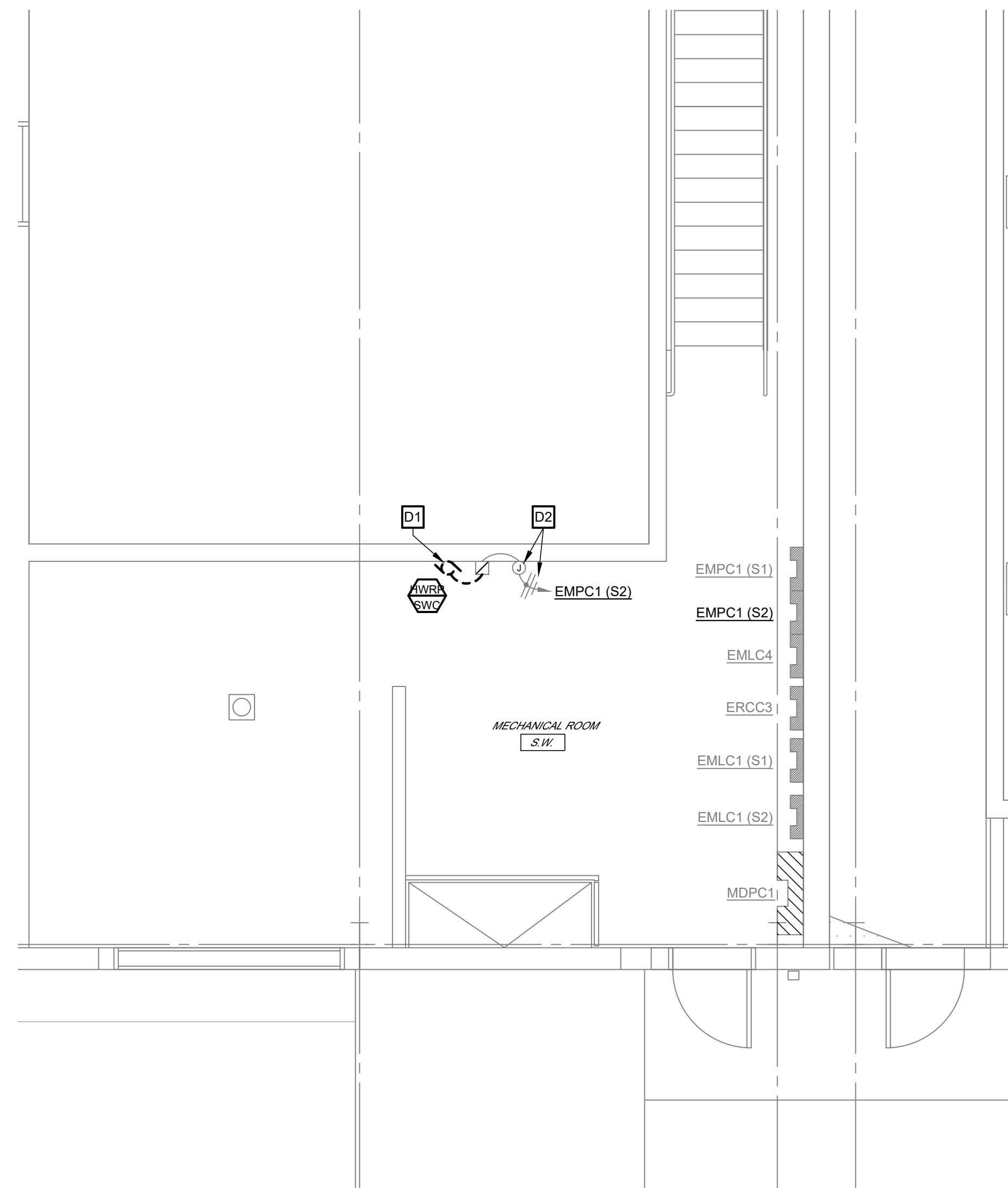
- D1** DISCONNECT EXISTING HOT WATER RETURN PUMP AND MAKE SAFE FOR REMOVAL. DEMOLISH EXISTING FEEDER WIRING AND CONDUIT MANUAL MOTOR STARTER. PUMP AND FEEDERS TO BE REPLACED AS A PART OF NEW WORK. REFER TO ONE-LINE FOR MORE INFORMATION.
- D2** CONTRACTOR SHALL FIELD VERIFY PROPER WIRING CONNECTIONS ARE MADE AT THE JUNCTION BOX AND CONFIRM THAT THE CORRECT SIZE FEEDER IS BEING USED FROM SOURCE. E.C. SHALL REPLACE FEEDERS THAT ARE FOUND NOT TO BE SIZED CORRECTLY. REFER TO ONE-LINE FOR MORE INFORMATION.
- D3** EQUIPMENT LAYOUT IN THIS ROOM IS FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY LAYOUT AND FEEDER PANEL LOCATION FOR HOT WATER RETURN PUMP.

**NEW WORK KEYED NOTES**

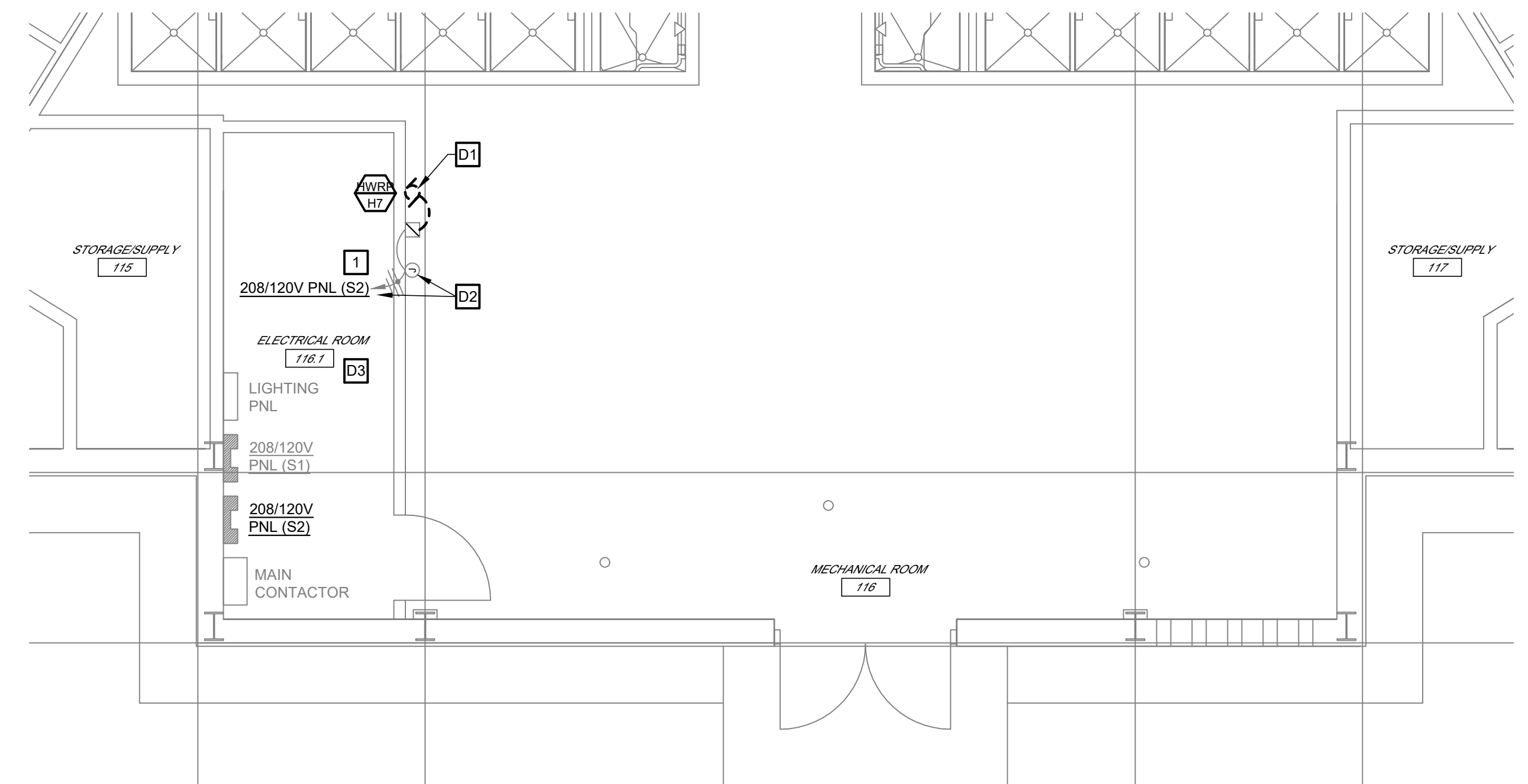
- 1** CONTRACTOR TO FIELD VERIFY CIRCUIT FEEDING HOT WATER RETURN PUMP.
- 2** E.C. TO INSTALL NEW HOT WATER RETURN PUMP AND MAKE CONNECTIONS AT MANUAL MOTOR STARTER USING EXISTING CIRCUIT. CONTRACTOR TO COORDINATE WORK WITH MECHANICAL CONTRACTOR. SEE ONE-LINE FOR MORE INFORMATION.
- 3** EQUIPMENT LAYOUT IN THIS ROOM IS FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY LAYOUT AND FEEDER PANEL LOCATION FOR HOT WATER RETURN PUMP.



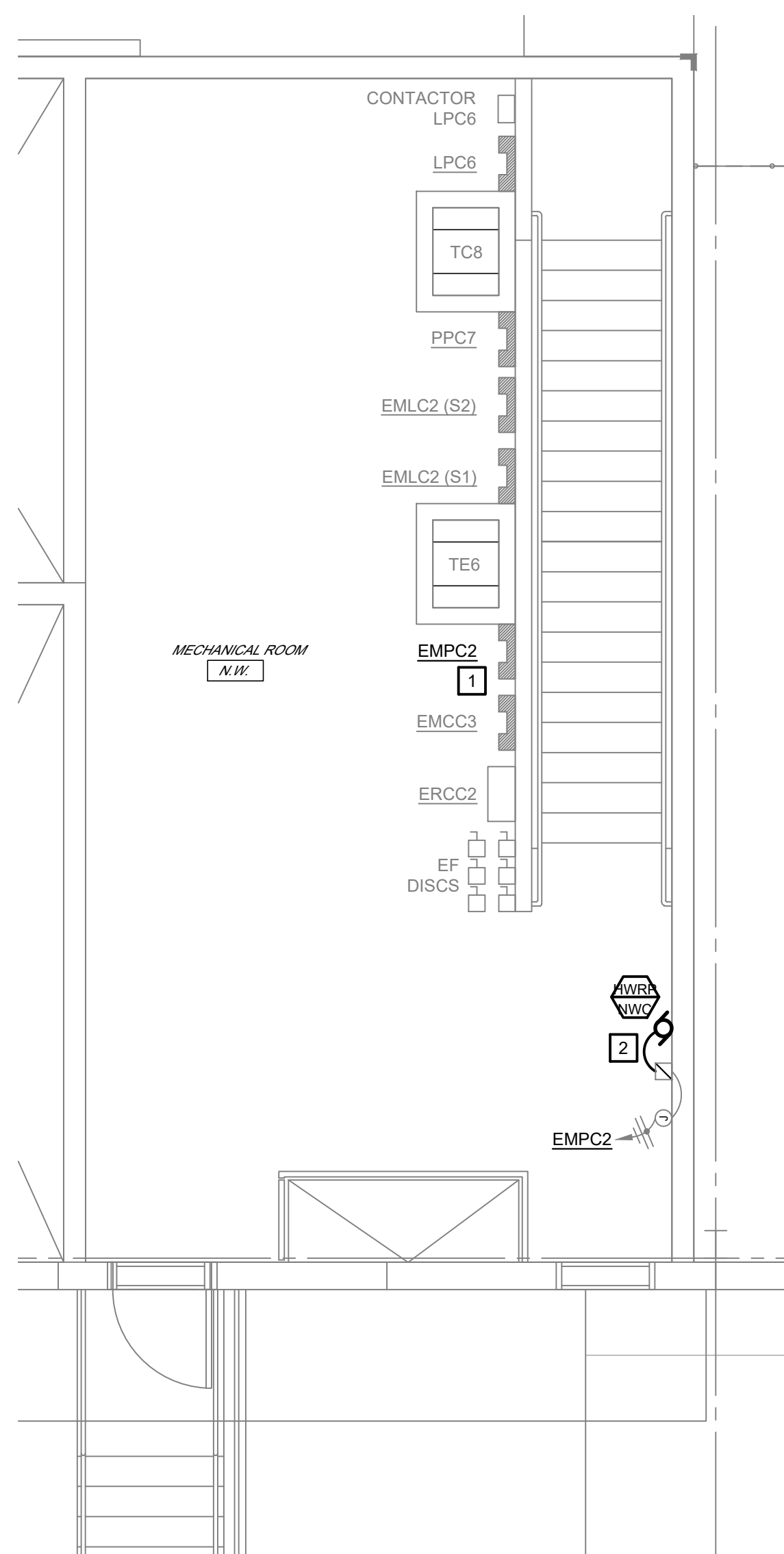
**CENTRAL SERVICES N.W. MECHANICAL ROOM  
ELECTRICAL - DEMOLITION WORK**  
1/4" = 1'-0"



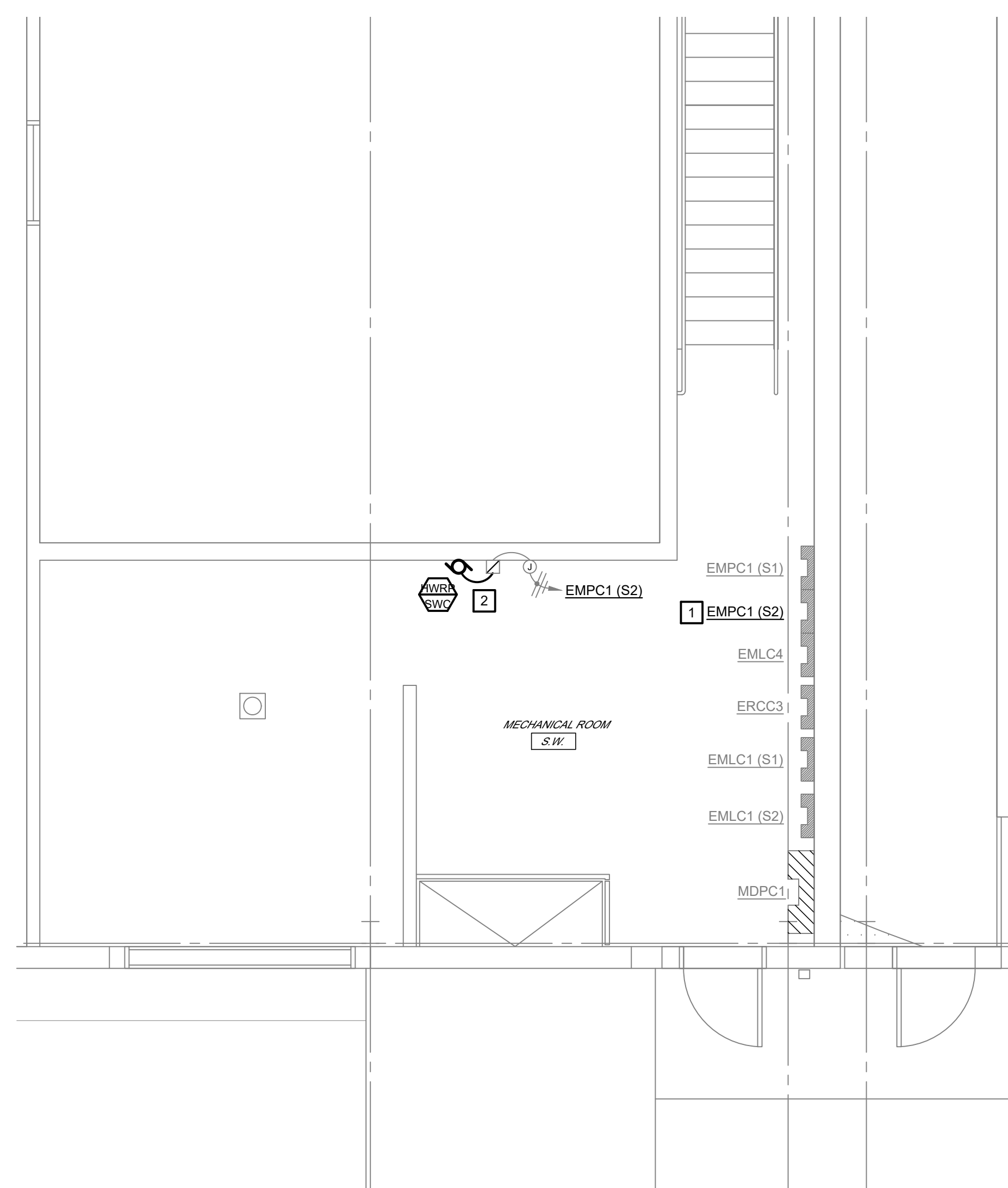
**CENTRAL SERVICES S.W. MECHANICAL ROOM  
ELECTRICAL - DEMOLITION WORK**  
1/4" = 1'-0"



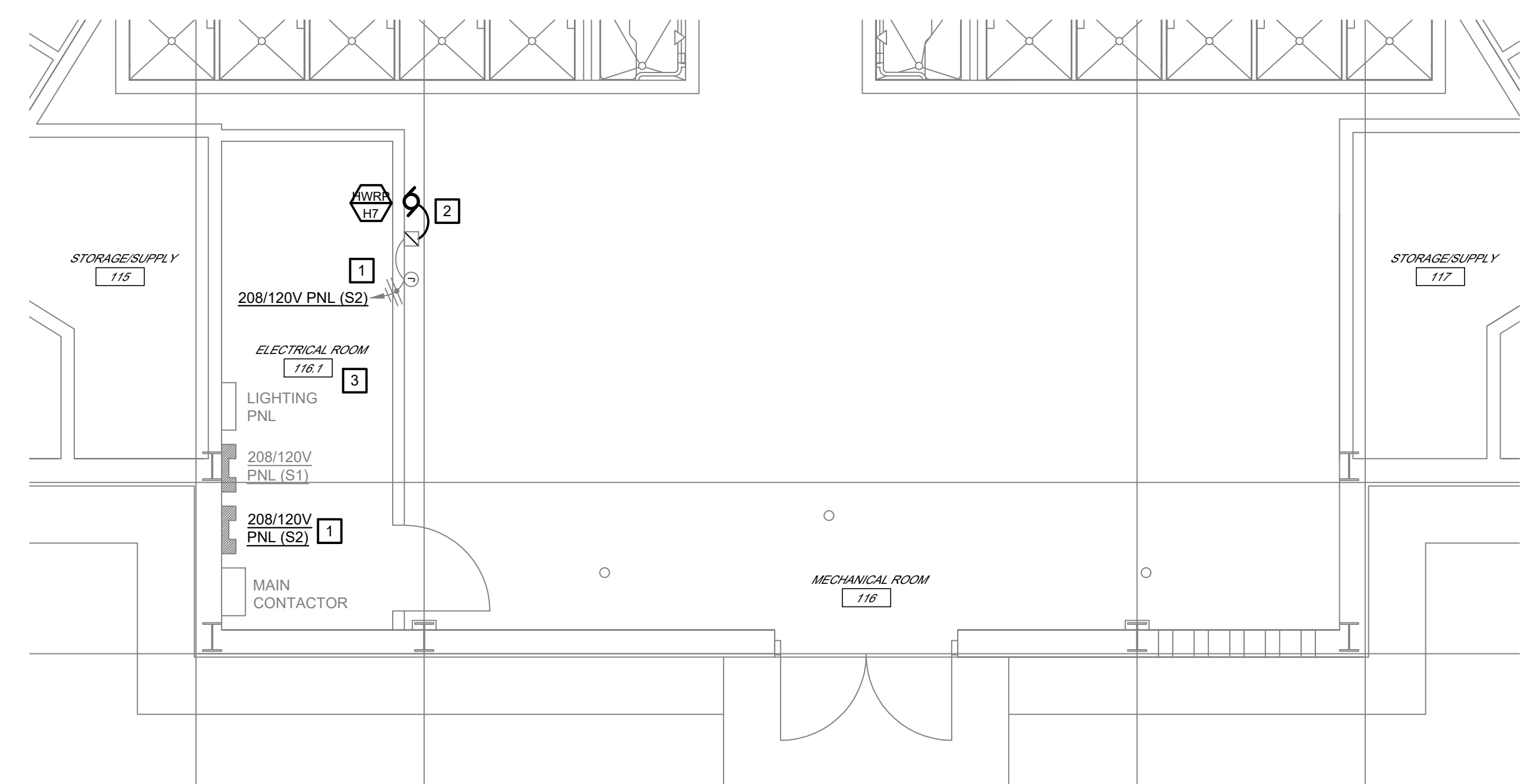
**HOUSING UNIT 7 MECHANICAL ROOM  
ELECTRICAL - DEMOLITION WORK**  
1/4" = 1'-0"



**CENTRAL SERVICES N.W. MECHANICAL ROOM  
ELECTRICAL - NEW WORK**  
1/4" = 1'-0"



**CENTRAL SERVICES S.W. MECHANICAL ROOM  
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**HOUSING UNIT 7 MECHANICAL ROOM  
ELECTRICAL - NEW WORK**  
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INFRASTRUCTURE  
SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

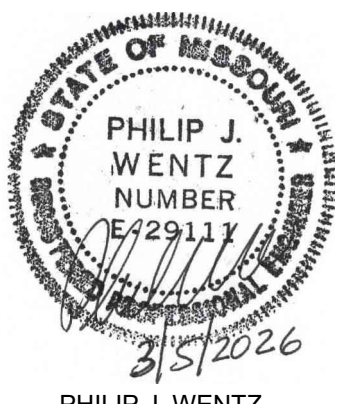
DRAWN BY: AAC  
CHECKED BY: SMB  
DESIGNED BY: AAC

SHEET TITLE:  
HOUSING UNIT 7 &  
CENTRAL SERVICES  
ELECTRICAL  
DEMO & NEW WORK

SHEET NUMBER:

**E-301**

22 OF 24 SHEETS  
03/05/2026



PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
MO COA: 000087

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**GENERAL NOTES**

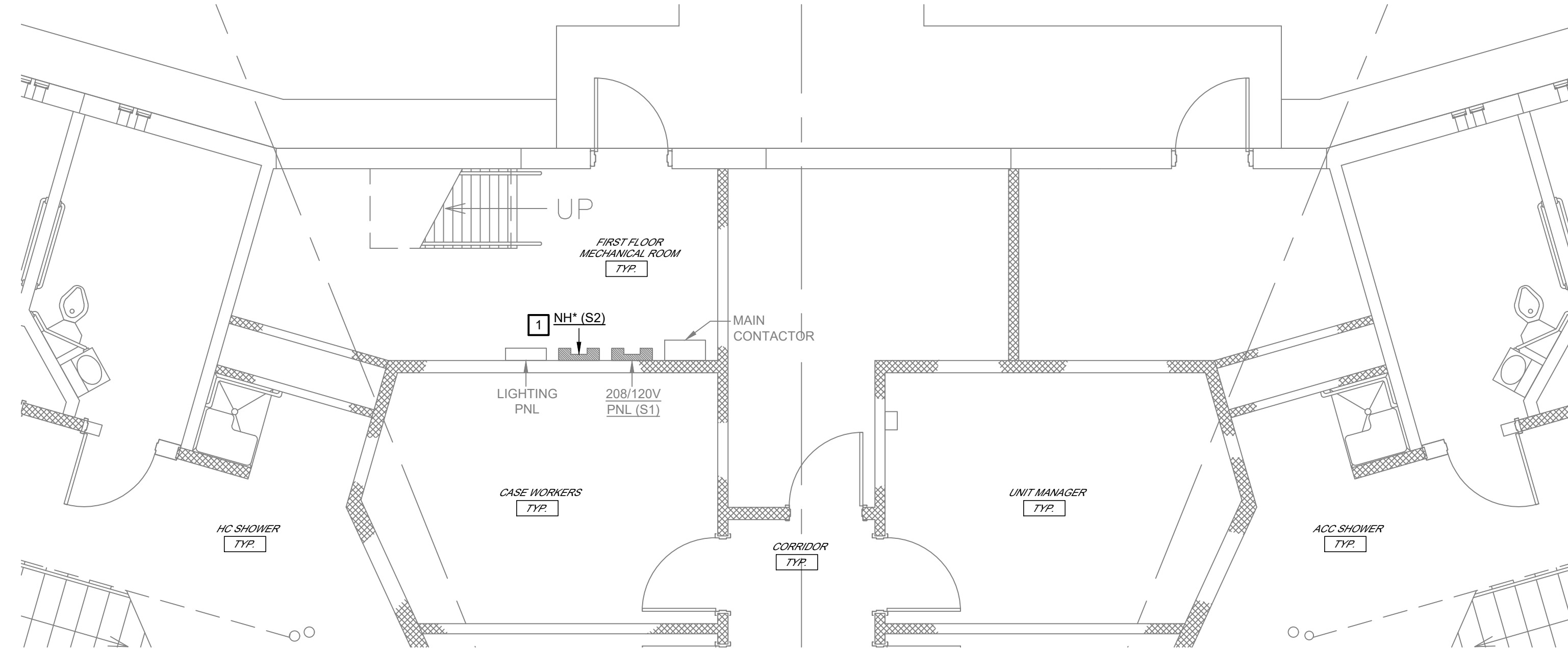
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**DEMOLITION WORK KEYED NOTES**

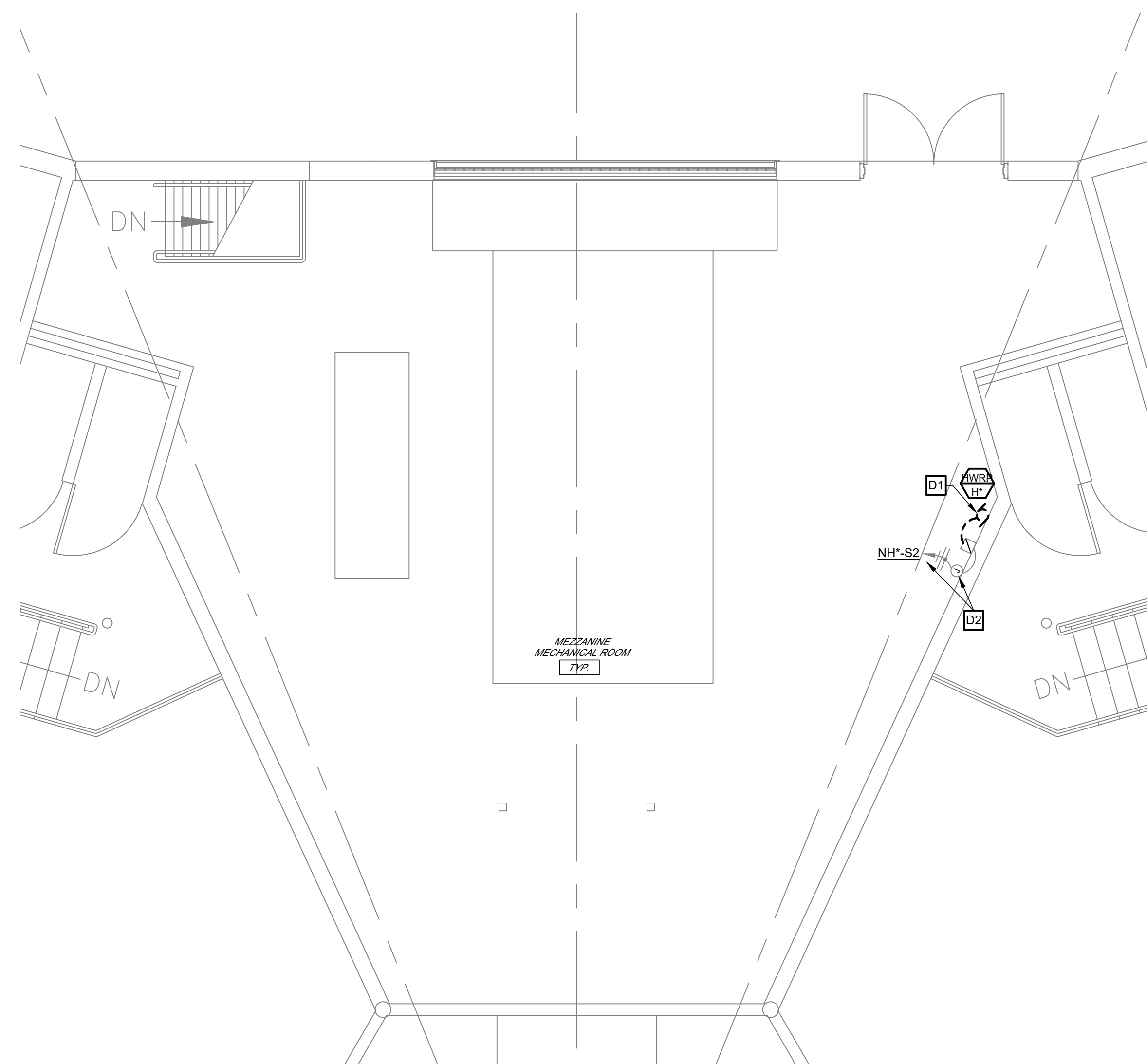
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**NEW WORK KEYED NOTES**

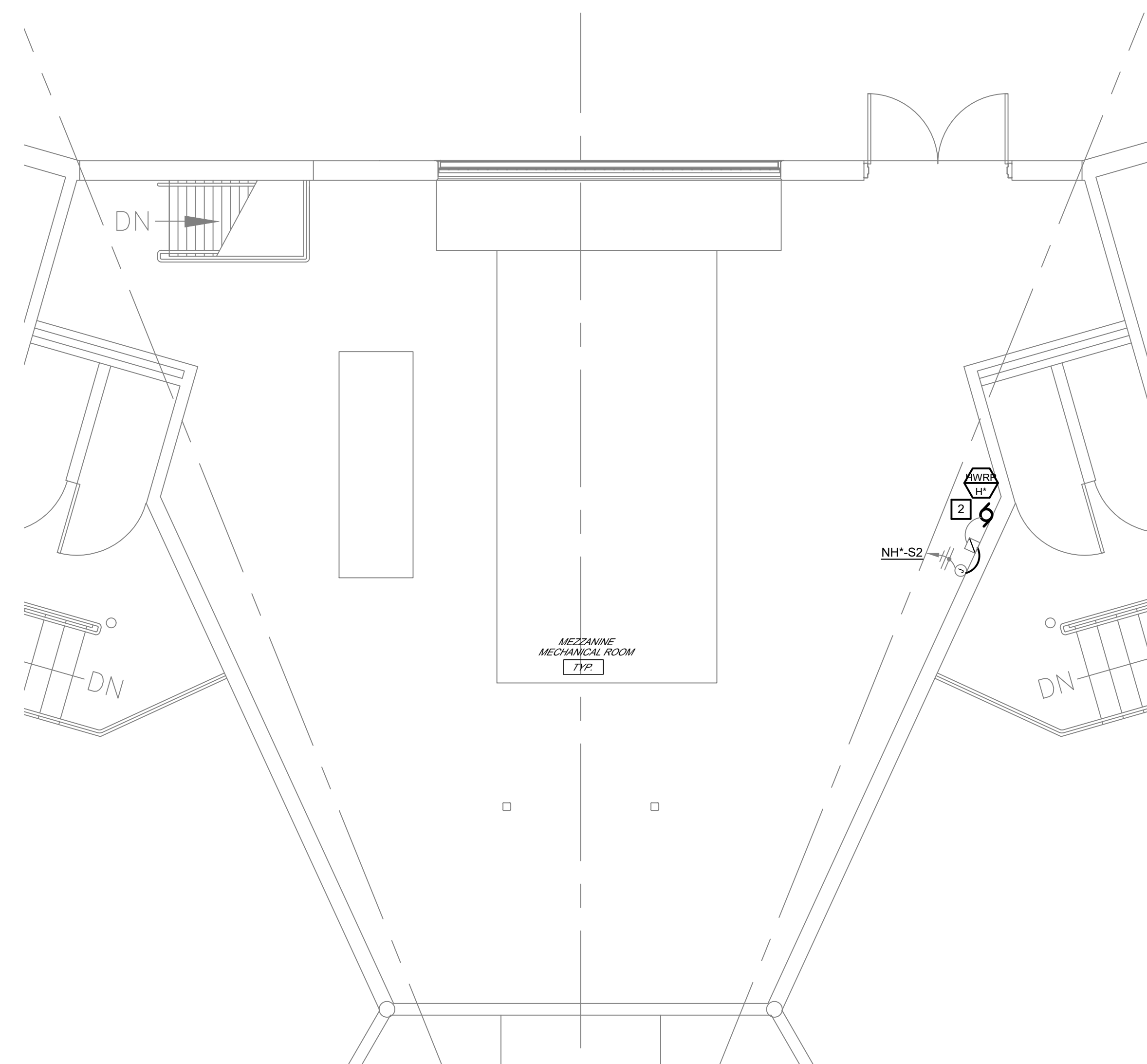
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**UNITS H2-H6 TYPICAL MECHANICAL ROOM - FIRST FLOOR**  
**ELECTRICAL - DEMOLITION & NEW WORK**  
1/4" = 1'-0"



**UNITS H2-H6 TYPICAL MECHANICAL ROOM - MEZZANINE**  
**ELECTRICAL - DEMOLITION WORK**  
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**UNITS H2-H6 TYPICAL MECHANICAL ROOM - MEZZANINE**  
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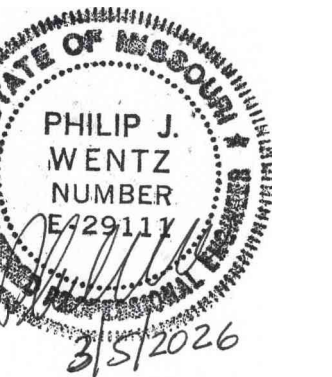
DRAWN BY: AAC  
CHECKED BY: SMB  
DESIGNED BY: AAC

SHEET TITLE:  
**UNITS H2-H6 TYPICAL  
MECHANICAL ROOM  
ELECTRICAL  
DEMO & NEW WORK**

SHEET NUMBER:

**E-302**

23 OF 24 SHEETS  
03/05/2026



PHILIP J. WENTZ  
MO Engineering Registration No. PE-029111  
MO COA: 000087

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2. ALL EXISTING ELECTRICAL DEVICES IN A WALL THAT IS TO BE REMOVED; ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, CUT OFF CONDUCTORS AND CAP CONDUIT IN FLOOR OR CEILING AS REQUIRED. DEVICES ARE TO BE REMOVED ALONG WITH WALL BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED FROM WALLS WHICH ARE TO REMAIN; ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, REMOVE CONDUCTORS, REMOVE DEVICE AND PROVIDE BLANK COVERPLATES AS REQUIRED, UNLESS OTHERWISE NOTED.
4. FOR A PORTION OF A CIRCUIT WHICH IS REMOVED OR ABANDONED, RE-ESTABLISH CIRCUIT CONTINUITY FOR THE PORTION OF THE CIRCUIT WHICH IS TO REMAIN.
5. ALL EXISTING CONDUITS, RACEWAYS AND WIRING ROUTED IN EXISTING WALLS AND CEILING SPACES (WHICH ARE TO BE DEMOLISHED) WHICH SERVE OTHER AREAS SHALL BE REROUTED AS REQUIRED.
6. PROVIDE AND INSTALL SUPPORTS FOR EXISTING CABLES AND CONDUITS ABOVE CEILING THAT ARE CURRENTLY UNSUPPORTED IN ALL AREAS WHERE CEILING IS BEING REMOVED.

GENERAL NOTES

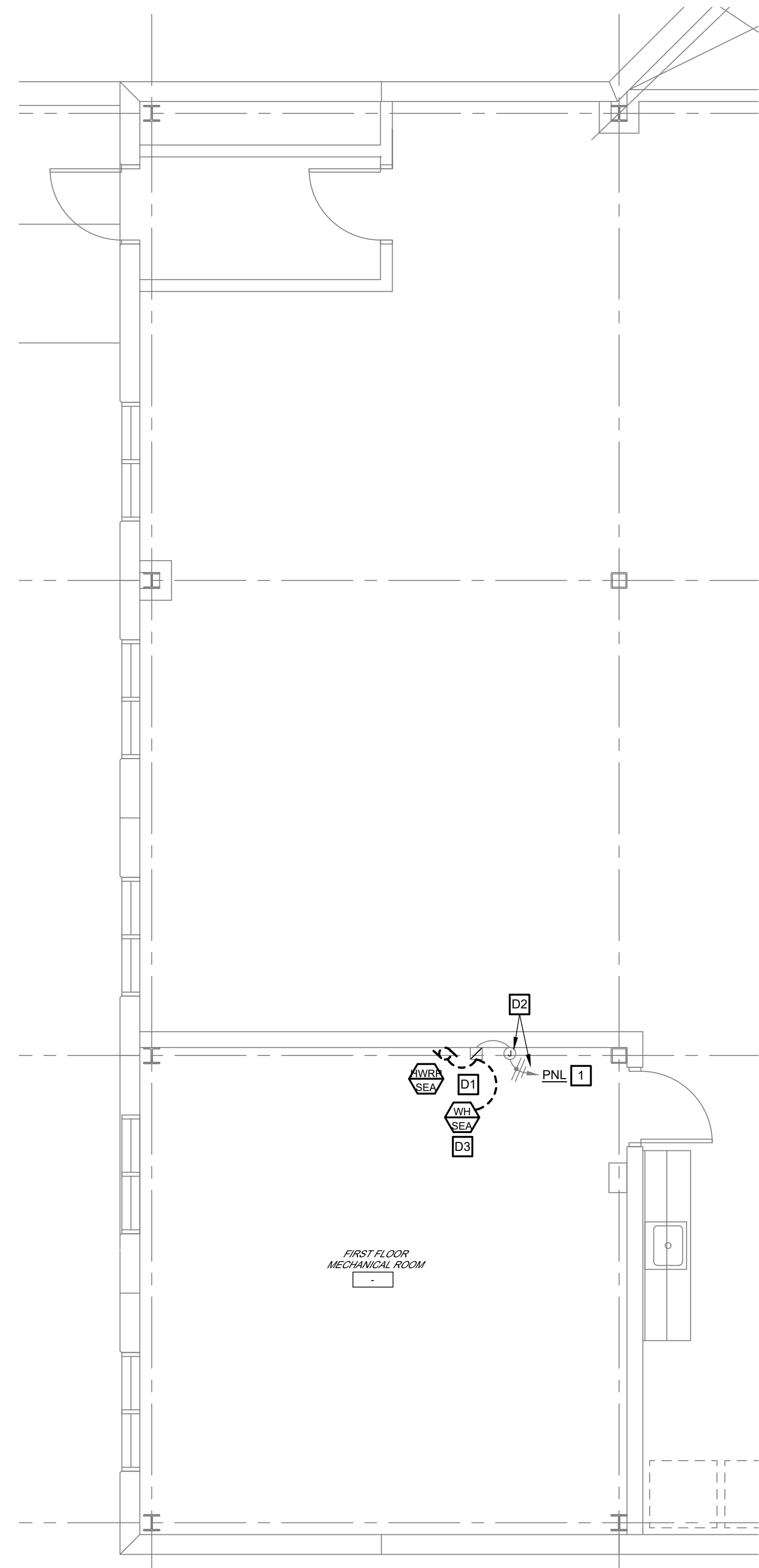
1. REFER TO SYMBOL LEGEND AND ONE-LINES FOR MORE INFORMATION.
2. ELECTRICAL PANELBOARD DIRECTORIES SHALL BE LABELED WITH FINAL ROOM NUMBERS NUMBERS AND EQUIPMENT TAGS.
3. SEE MECHANICAL-ELECTRICAL INTERFACE SCHEDULE FOR EQUIPMENT FEEDER, UNIT CONTROL, AND DISCONNECT INFORMATION.
4. FIRE SEAL ALL PENETRATIONS OF FIRE RATED ASSEMBLIES. SEAL ALL ROOF AND EXTERIOR WALL PENETRATIONS WEATHER TIGHT.

DEMOLITION WORK KEYED NOTES

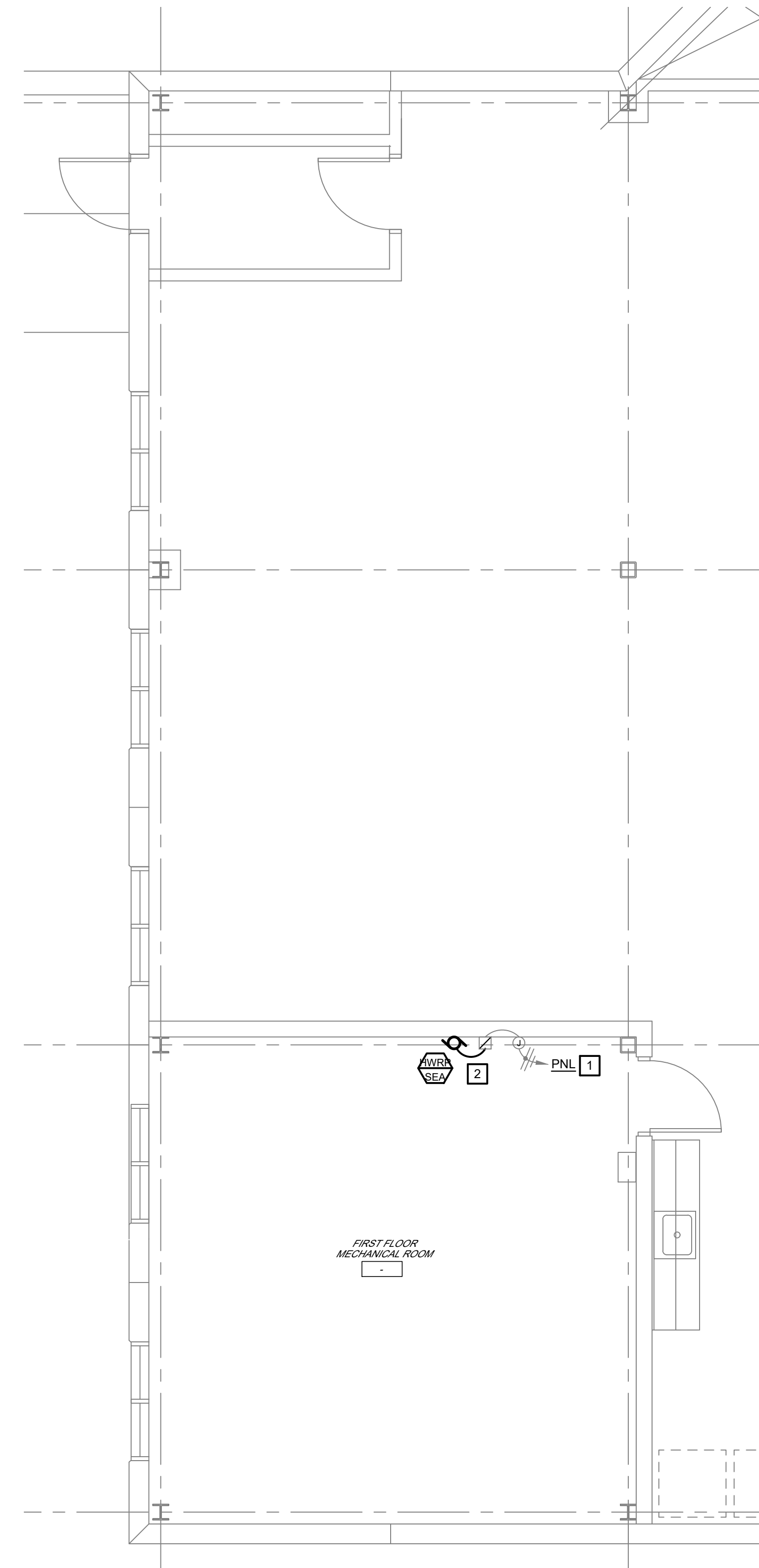
- D1 DISCONNECT EXISTING HOT WATER RETURN PUMP AND MAKE SAFE FOR REMOVAL. DEMOLISH EXISTING FEEDER WIRING AND CONDUIT BACK TO MANUAL MOTOR STARTER, PUMP AND FEEDERS TO BE REPLACED AS A PART OF NEW WORK. REFER TO ONE-LINE FOR MORE INFORMATION.
- D2 CONTRACTOR SHALL FIELD VERIFY PROPER WIRING CONNECTIONS ARE MADE AT THE JUNCTION BOX, AND CONFIRM THAT THE CORRECT SIZE FEEDER IS BEING USED FROM SOURCE. E.C. SHALL REPLACE FEEDERS THAT ARE FOUND NOT TO BE SIZED CORRECTLY. REFER TO ONE-LINE FOR MORE INFORMATION.
- D3 DISCONNECT EXISTING WATER HEATER AND MAKE SAFE FOR REMOVAL. DEMOLISH EXISTING FEEDER WIRING AND CONDUIT BACK TO SOURCE.

NEW WORK KEYED NOTES

- 1 CONTRACTOR TO FIELD VERIFY CIRCUIT FEEDING HOT WATER RETURN PUMP.
- 2 E.C. TO INSTALL NEW HOT WATER RETURN PUMP AND MAKE CONNECTIONS AT MANUAL MOTOR STARTER USING EXISTING CIRCUIT. CONTRACTOR TO COORDINATE WORK WITH MECHANICAL CONTRACTOR. SEE ONE-LINE FOR MORE INFORMATION.



**ADMINISTRATION MECHANICAL ROOM  
ELECTRICAL - DEMOLITION WORK**  
1/4" = 1'-0"



**ADMINISTRATION MECHANICAL ROOM  
ELECTRICAL - NEW WORK**  
1/4" = 1'-0"

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

REPLACE DOMESTIC &  
HEATING LOOP,  
INFRASTRUCTURE  
SOUTHEAST  
CORRECTIONAL CENTER

300 PEDRO SIMMONS DR  
CHARLESTON, MO 63834

PROJECT # C2516-01  
SITE# 7020  
FACILITY# 9327020029

REVISION: 0 - IFB SET  
DATE: 03/05/2026  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 03/05/2026

DRAWN BY: AAC  
CHECKED BY: SMB  
DESIGNED BY: AAC

SHEET TITLE:  
**ADMINISTRATION  
MECHANICAL ROOM  
ELECTRICAL  
DEMO & NEW WORK**

SHEET NUMBER:

**E-303**

24 OF 24 SHEETS  
03/05/2026