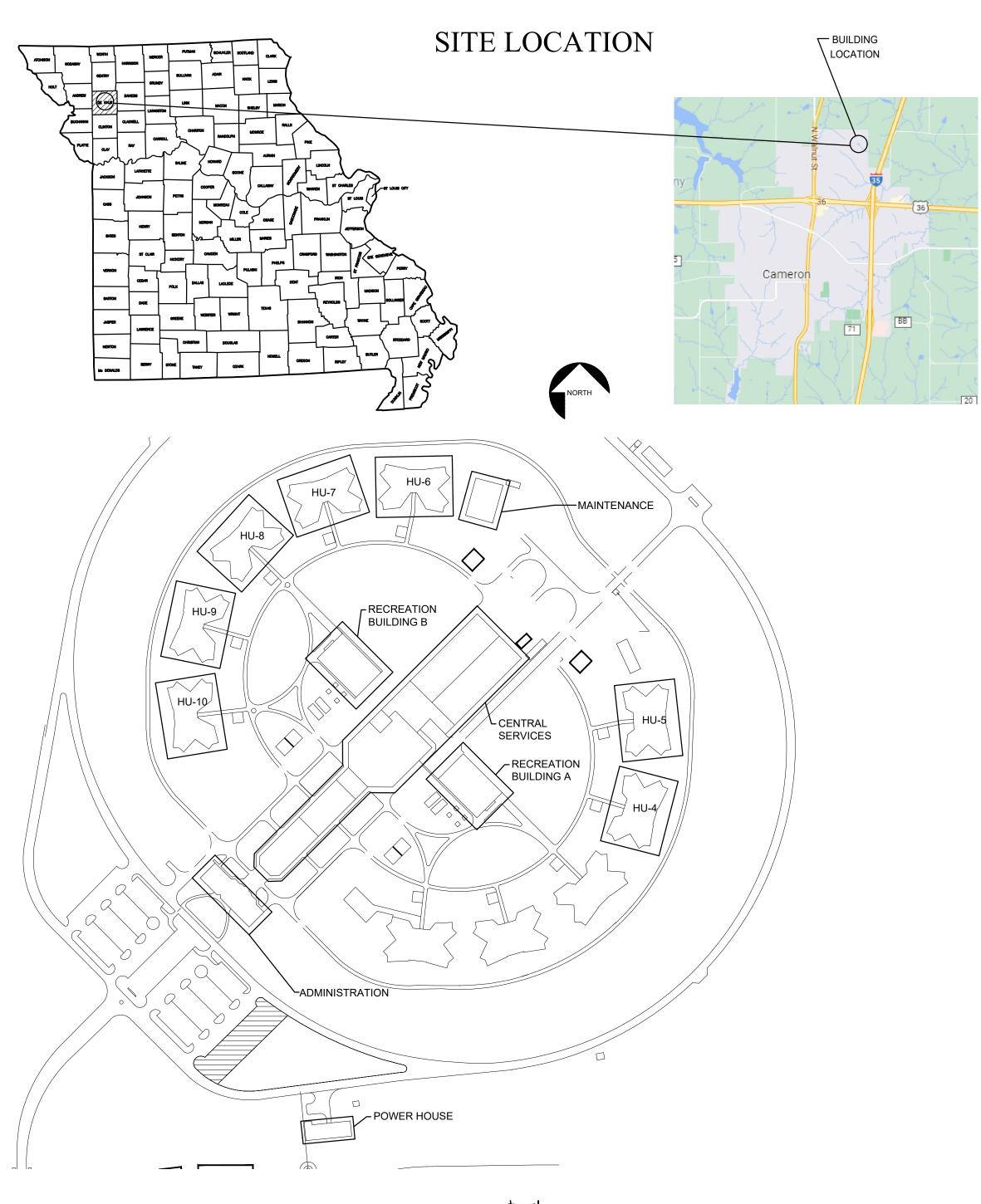
# FACILITY HEATING REPLACEMENTS WESTERN MISSOURI CORRECTIONAL CENTER CAMERON, MISSOURI

#### SHEET INDEX:

**COVER SHEET** G-001 M-100 MECHANICAL PLAN ADMINISTRATION BUILDING -1ST FLOOR M-101 MECHANICAL PLAN ADMINISTRATION BUILDING -2ND FLOOR M-102 ENLARGED MECHANICAL PLANS ADMINISTRATION BUILDING MECHANICAL PLAN MAINTENANCE BUILDING M-103 M-104 MECHANICAL PLAN POWER HOUSE MECHANICAL PLAN RECREATION BUILDING A M-105 M-106 MECHANICAL PLAN RECREATION BUILDING B (ALTERNATE NO. 2) M-107 MECHANICAL PLAN HOUSING UNITS 4 & 5, 6 THRU 8 (ALTERNATE NO. 1), 9 & 10 (ALTERNATE NO. 2) MECHANICAL ENLARGED FLOOR PLAN HOUSING M-108 UNITS 4 & 5, 6 THRU 8 (ALTERNATE NO. 1), 9 & 10 (ALTERNATE NO. 2) MECHANICAL PLAN CENTRAL SERVICES BUILDING M-109 M-110 MECHANICAL PLAN CENTRAL SERVICES BUILDING M-111 MECHANICAL PLAN CENTRAL SERVICES BUILDING M-112 MECHANICAL PLAN CENTRAL SERVICES BUILDING M-113 MECHANICAL PLAN CENTRAL SERVICES BUILDING M-114 MECHANICAL ENLARGED PLANS CENTRAL SERVICES BUILDING MECHANICAL DETAILS M-200 M-201 MECHANICAL NOTES, SCHEDULES, AND SYMBOLS



DESIGNER: LANKFORD FENDLER + ASSOCIATES

ALEX MALYAROV

ALEXM@LANKFORDFENDLER.COM

816-221-1411

PROJECT NUMBER: C2316-01

SITE NUMBER: 7011 ASSET NUMBER: 9327

9327011021 9327011029

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9327011026 9327011027 9327011028

OWNER: STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

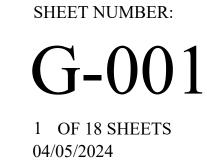
DEPARTMENT OF CORRECTIONS

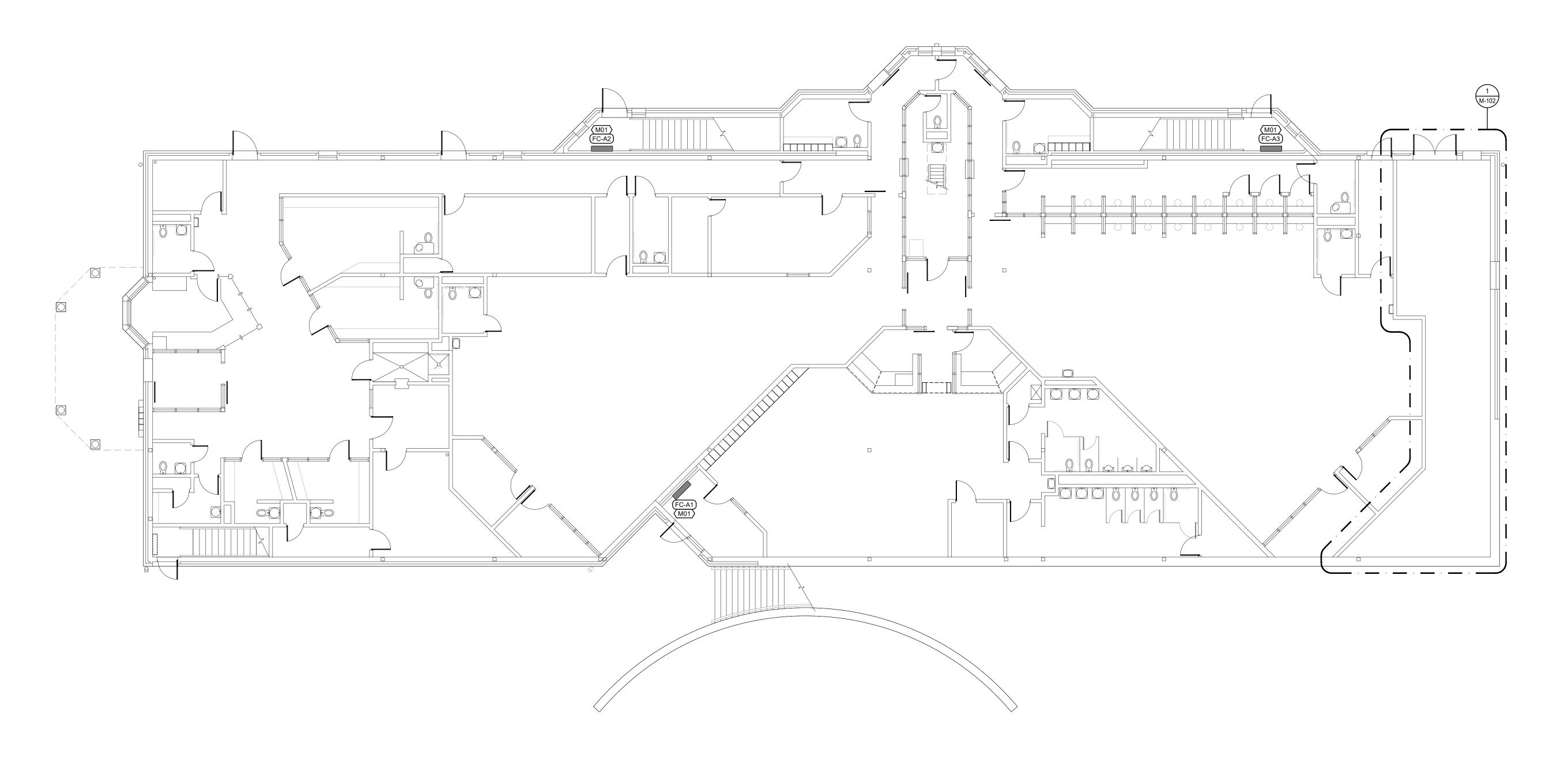
PROJECT OFFICE OF ADMINISTRATION

MANAGEMENT: DIVISION OF FACILITIES MANAGEMENT,

DESIGN AND CONSTRUCTION







# FIRST FLOOR ADMINISTRATION PLAN-MECHANICAL SCALE: 1/8"=1'-0"

## FLOOR PLAN NOTES

 REPLACE EXISTING FAN COIL WITH NEW. REPLACE ALL ASSOCIATED VALVES WITH NEW AND INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 4 FOR ADDITIONAL INFORMATION.

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



rkford Fendle

+ associate

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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MANAGEMENT,
DESIGN AND CONSTRUCTION

UPDATE FACILITY HEATING, MULTIPLE ASSETS

WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011028

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ISSUE DATE: 04/05/2024

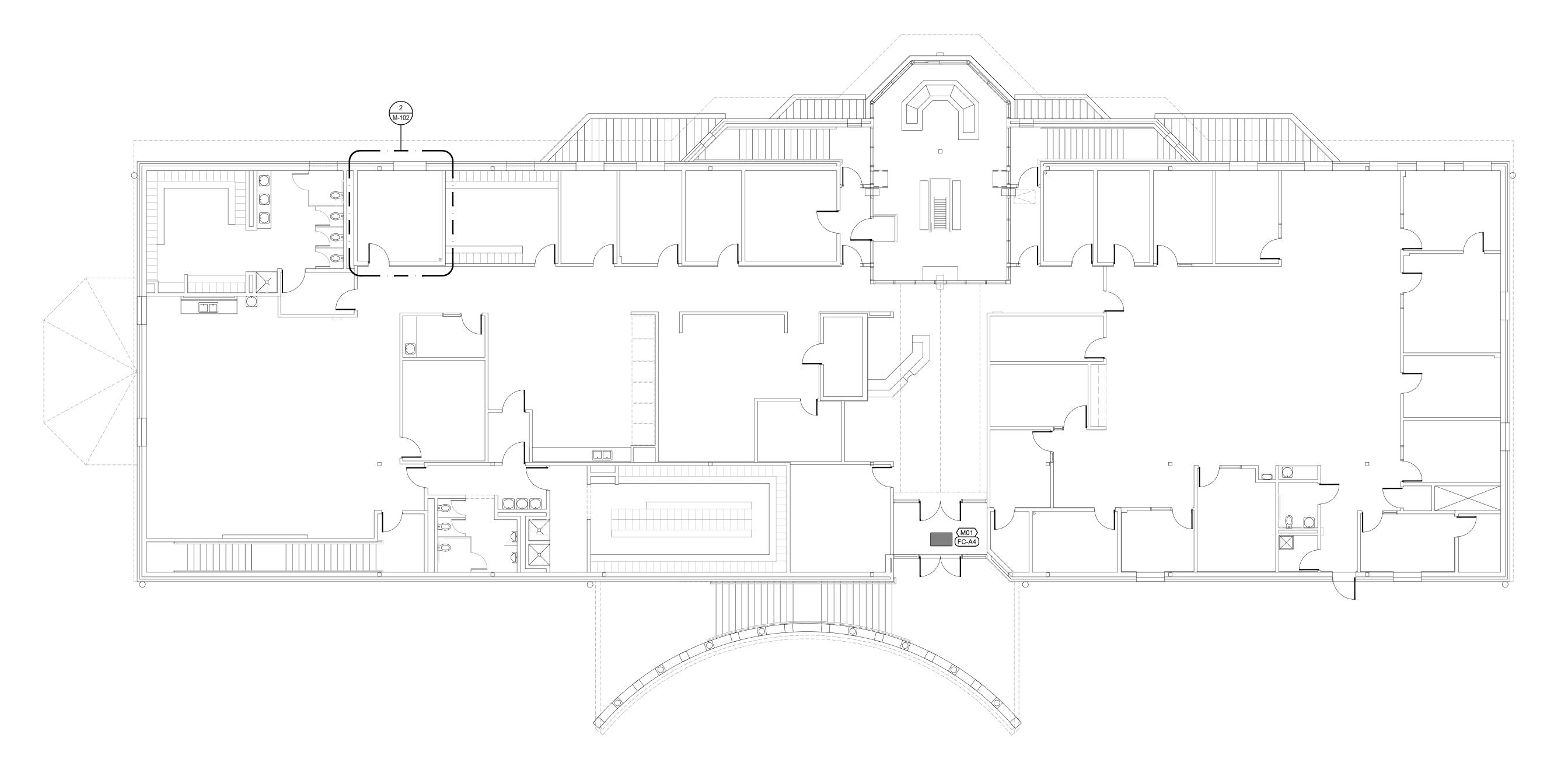
SHEET TITLE:

MECHANICAL PLAN
ADMINISTRATION
BUILDING - 1ST FLOOR

SHEET NUMBER:

M-100

2 OF 18 SHEETS



# SECOND FLOOR ADMINISTRATION PLAN-MECHANICAL SCALE: 1/8"=1'-0"

## **FLOOR PLAN NOTES**

 REPLACE EXISTING FAN COIL WITH NEW. REPLACE ALL ASSOCIATED VALVES WITH NEW AND INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 4 FOR ADDITIONAL INFORMATION.

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





+ associat

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011028

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ISSUE DATE: 04/05/2024

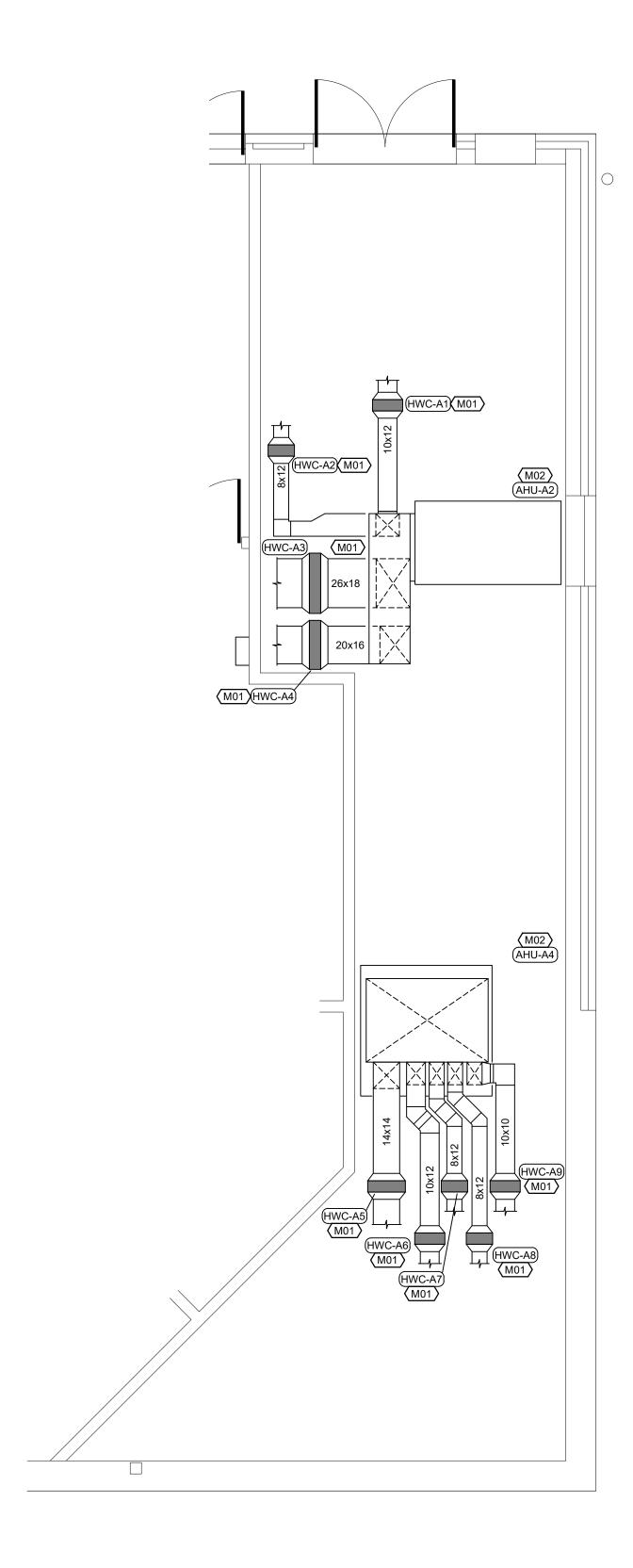
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MECHANICAL PLAN
ADMINISTRATION
BUILDING - 2ND FLOOR

SHEET NUMBER:

M-10

3 OF 18 SHEETS



1-ENLARGED MECHANICAL 113
FIRST FLOOR PLAN-MECHANICAL
SCALE: 1/4"=1'-0"

## FLOOR PLAN NOTES

- REPLACE EXISTING DUCT HOT WATER COIL (SPECIFICATION 238216.11) WITH NEW.
  REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH
  EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED.
  MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 8 FOR ADDITIONAL
  INFORMATION.
- 2. EXISTING AIR HANDLING UNIT TO REMAIN.



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



+ associat

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011028

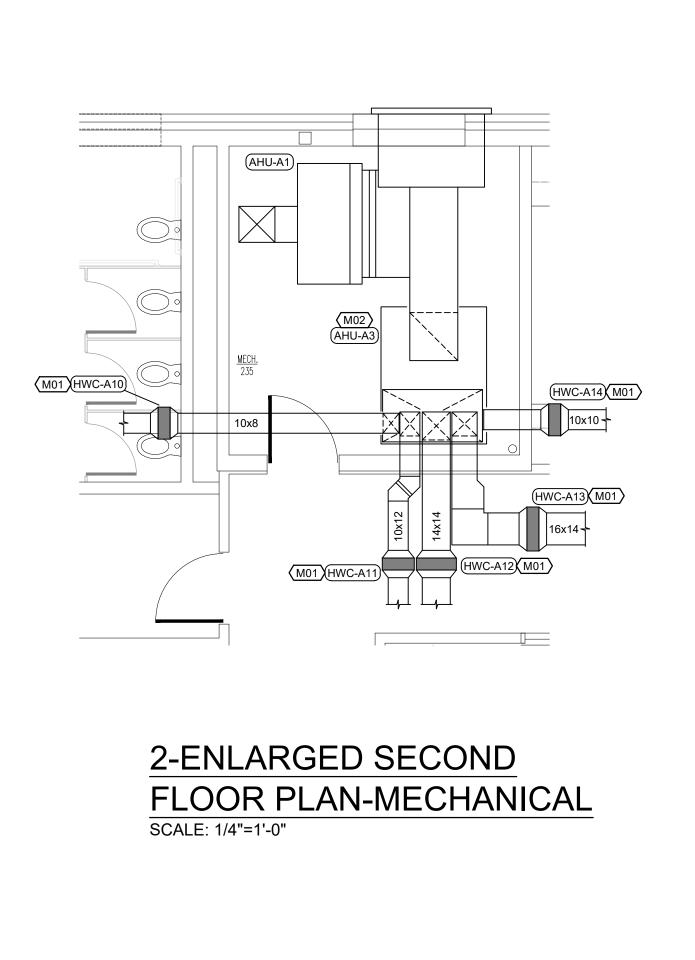
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ISSUE DATE: 04/05/2024

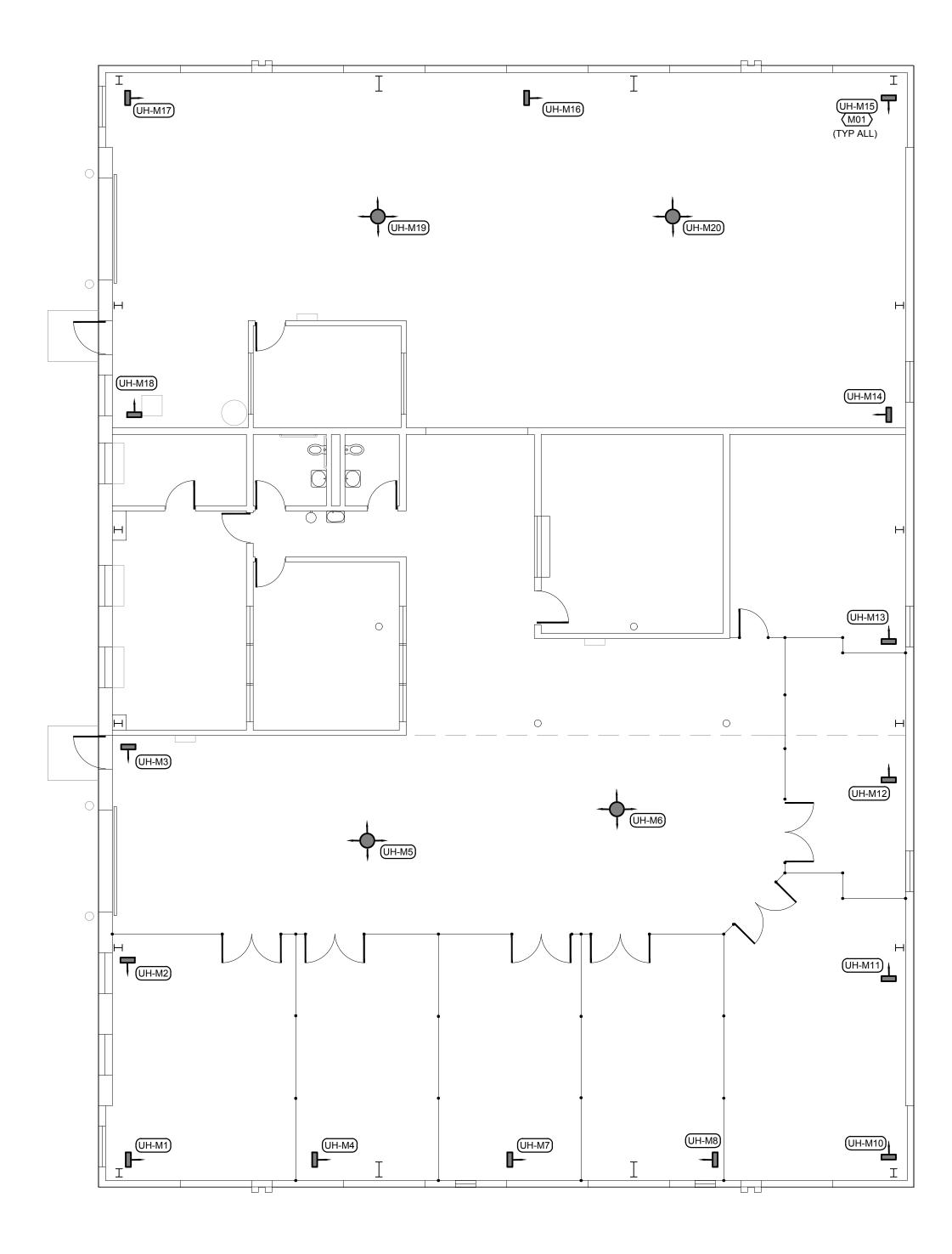
SHEET TITLE:

ENLARGED MECHANICAL PLANS ADMINISTRATION BUILDING

SHEET NUMBER:

M-102





MAINTENANCE BUILDING FLOOR PLAN-MECHANICAL SCALE: 1/8"=1'-0"

## FLOOR PLAN NOTES

1. REPLACE EXISTING UNIT HEATER (SPECIFICATIOIN 238239.16) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 6 FOR ADDITIONAL INFORMATION.

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







+ associates

1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429

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WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011037

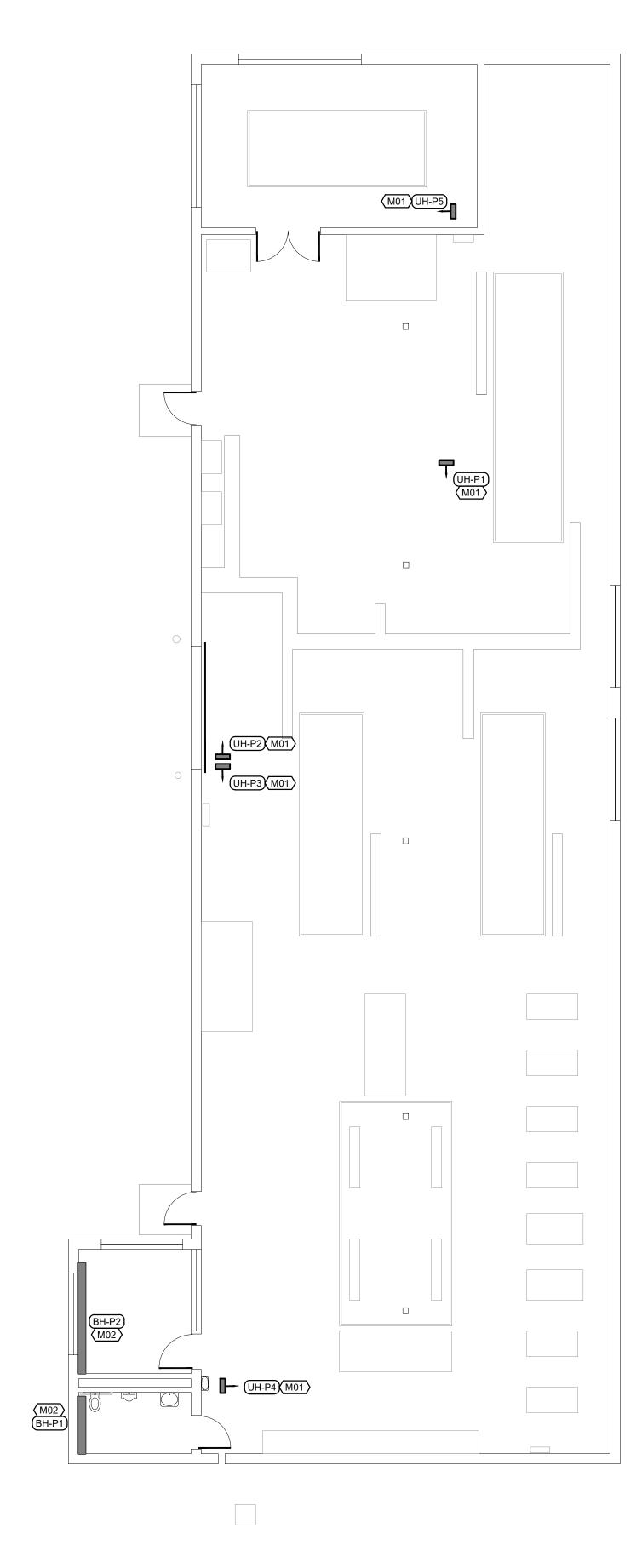
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ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL PLAN
MAINTENANCE
BUILDING

SHEET NUMBER:

M-103



POWER HOUSE FLOOR PLAN-MECHANICAL SCALE: 1/8"=1'-0"

## FLOOR PLAN NOTES

- 1. REPLACE EXISTING UNIT HEATER (SPECIFICATION 238239.16) WITH NEW. REPLACE ALL ASSOCIATED VALVES WITH NEW AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 6 FOR ADDITIONAL INFORMATION.
- 2. REPLACE EXISTING BASEBOARD HEATER (SPECIFICATION 238233) WITH NEW. REPLACE ALL ASSOCIATED VALVES WITH NEW AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 4 FOR ADDITIONAL

#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429 LANKFORD | FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC.

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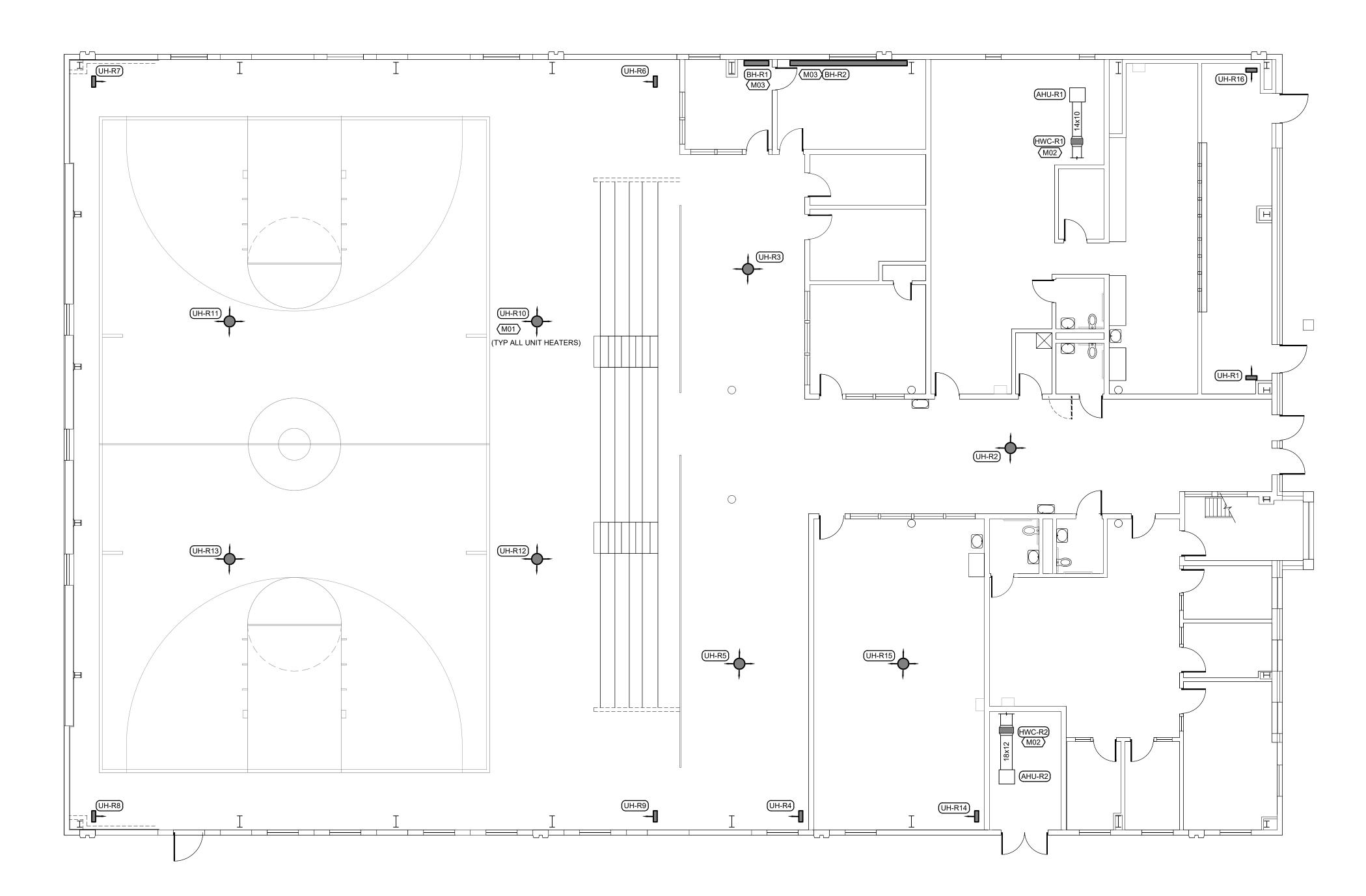
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REVISION: **REVISION:** DATE: REVISION: DATE: ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL PLAN POWER HOUSE

SHEET NUMBER:



RECREATION BUILDING A FLOOR PLAN-MECHANICAL SCALE: 1/8"=1'-0"

## FLOOR PLAN NOTES

- 1. REPLACE EXISTING UNIT HEATER (SPECIFICATION 238239.16) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 6 FOR ADDITIONAL INFORMATION.
- REPLACE EXISTING DUCT HEATING HOT WATER COIL (SPECIFICATION 238216.11) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 8 FOR ADDITIONAL INFORMATION.
- 3. REPLACE EXISTING CONVECTIVE BASEBOARD HEATER (SPECIFICATION 238233) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 7 FOR ADDITIONAL INFORMATION.

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





+ associate

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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PROJECT # C2316-01 SITE # 7011 ASSET # 9327011035

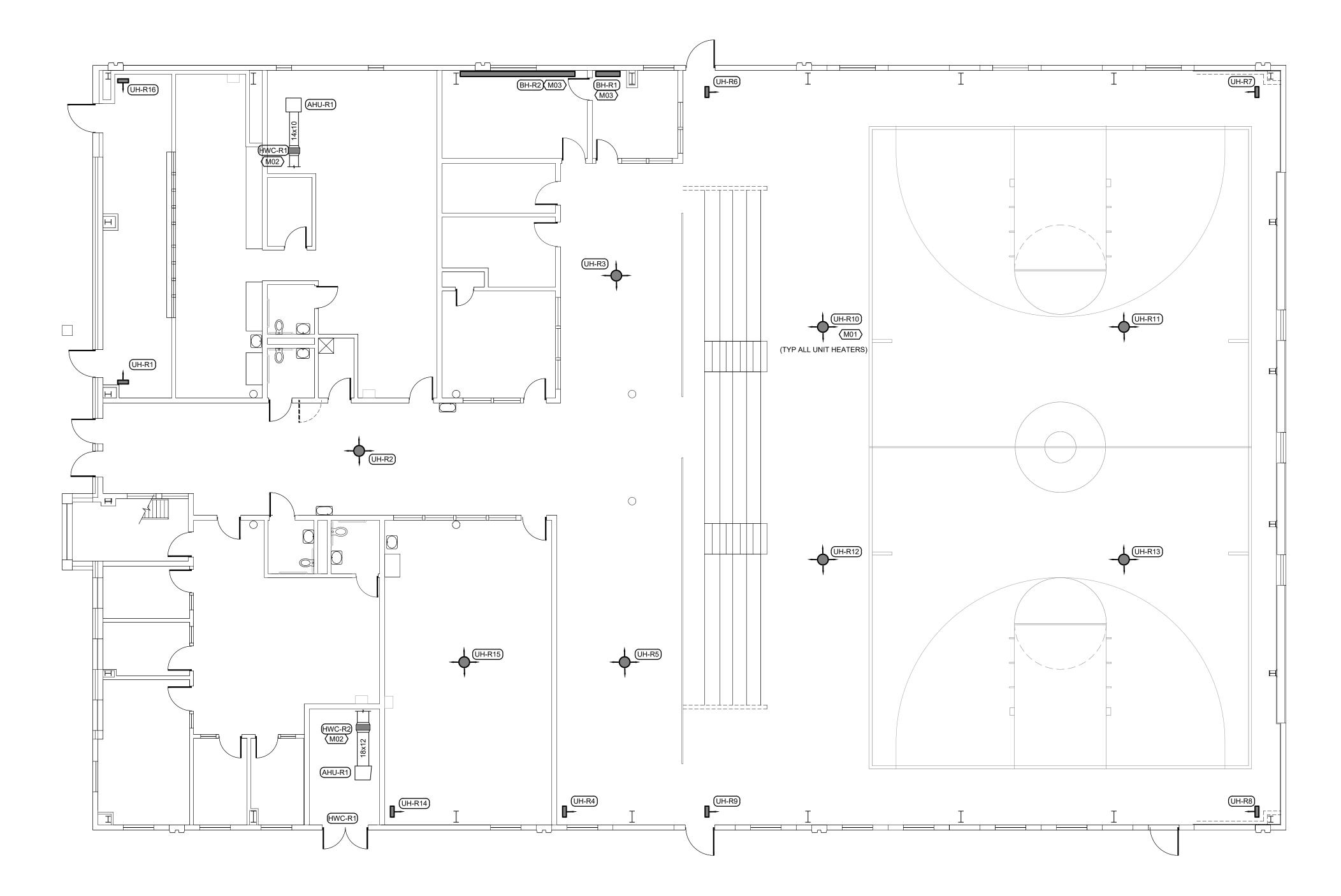
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ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL PLAN
RECREATION BUILDING A

SHEET NUMBER:

M-105



RECREATION BUILDING B (ALTERNATE NO. 2) FLOOR PLAN-MECHANICAL SCALE: 1/8"=1'-0"

## FLOOR PLAN NOTES

- REPLACE EXISTING UNIT HEATER (SPECIFICATION 238239.16) WITH NEW. REPLACE ALL
  ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT
  WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING
  CONDITION. REFER TO SHEET M-200 DETAIL 6 FOR ADDITIONAL INFORMATION.
- 2. REPLACE EXISTING DUCT HEATING HOT WATER COIL (SPECIFICATION 238216.11) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 8 FOR ADDITIONAL INFORMATION
- 3. REPLACE EXISTING CONVECTIVE BOARD HEATER (SPECIFICATION 238233) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 7 FOR ADDITIONAL INFORMATION.

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







+ associates

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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PROJECT # C2316-01 SITE # 7011 ASSET # 9327011036

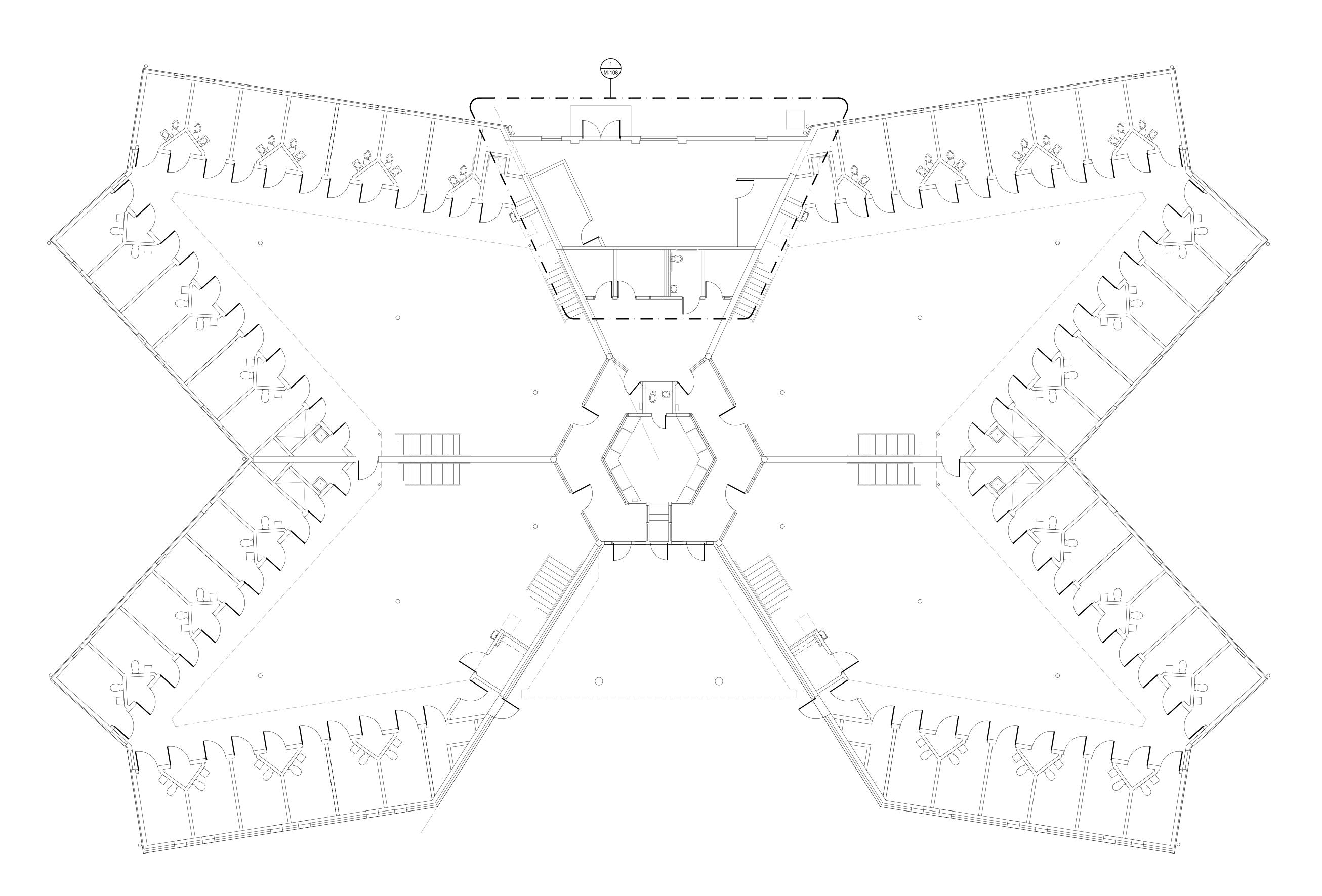
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ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL PLAN RECREATION BUILDING B (ALTERNATE NO. 2)

SHEET NUMBER:

M-106



HOUSING UNIT 1 THRU 5, 6 THRU 8 (ALTERNATE NO. 1), 9 & 10 (ALTERNATE NO. 2) FLOOR PLAN-MECHANICAL SCALE: 1/8"=1'-0"

# STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**







1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone:  $816.221.1411 \mid Fax$ : 816.221.1429LANKFORD | FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC. COPYRIGHT © 2023 Project No. 23.7312.00  $COA\ No.\ 2006001168$ 

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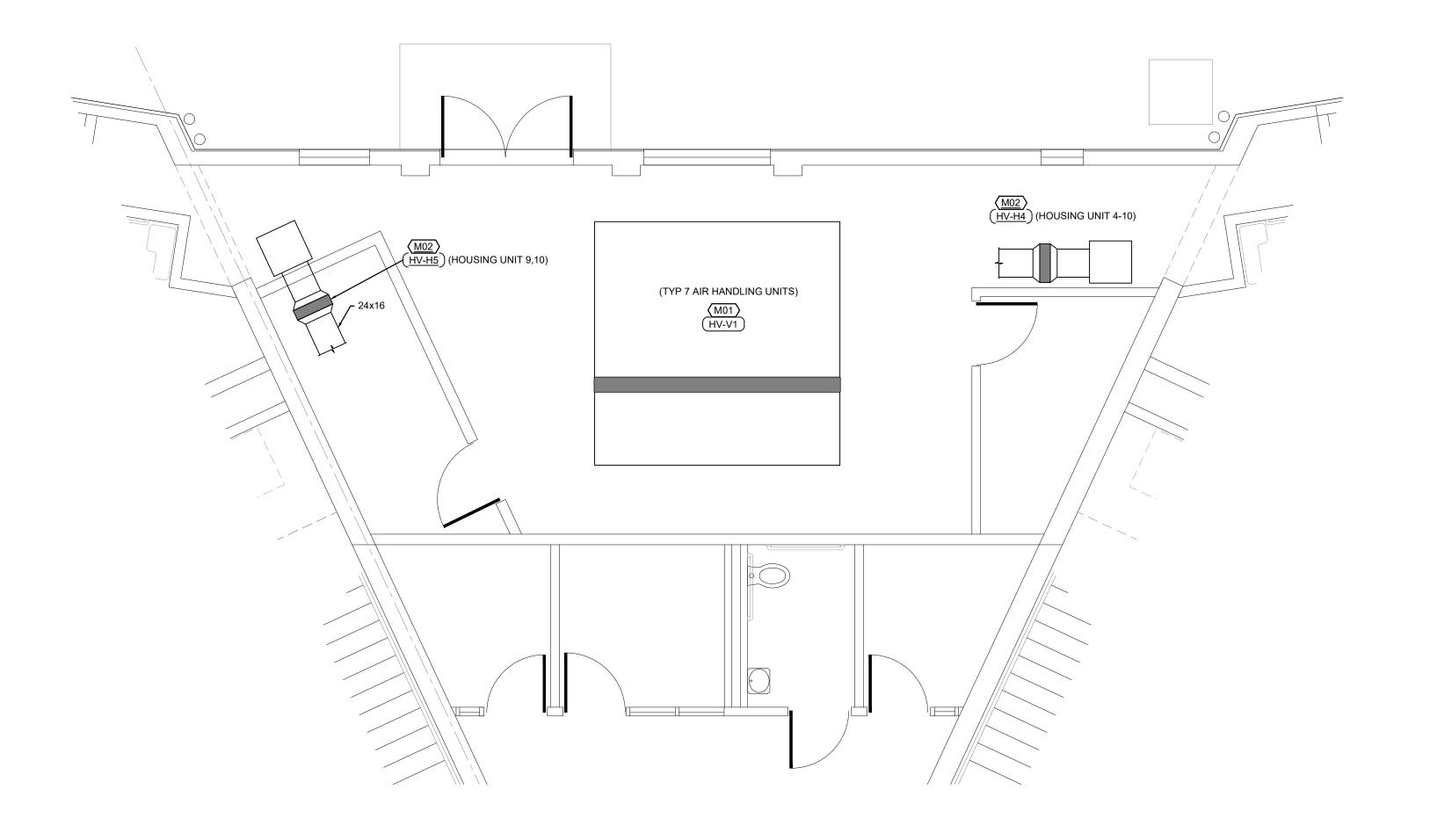
PROJECT # C2316-01 7011 9327011021-027

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ISSUE DATE: 04/05/2024

SHEET TITLE: MECHANICAL PLAN HOUSING UNITS 4 & 5, 6 THRU 8

(ALTERNATE NO. 1), 9 & 10 (ALTERNATE NO. 2)

SHEET NUMBER:



# 1 - ENLARGED FLOOR PLAN-MECHANICAL

SCALE: 1/4"=1'-0"

# FLOOR PLAN NOTES

- REPLACE EXISTING HOT WATER COIL (SPECIFICATION 238216.11) IN AIR HANDLING UNIT WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 1 FOR ADDITIONAL INFORMATION.
- 2. REPLACE EXISTING DUCT HOT WATER COIL (SPECIFICATION 238216.11) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 8 FOR ADDITIONAL INFORMATION. CONFIRM EXISTING UNIT AIRFLOW IN HEATING MODE PRIOR TO ORDERING NEW COIL.

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







+ associates

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011021-027

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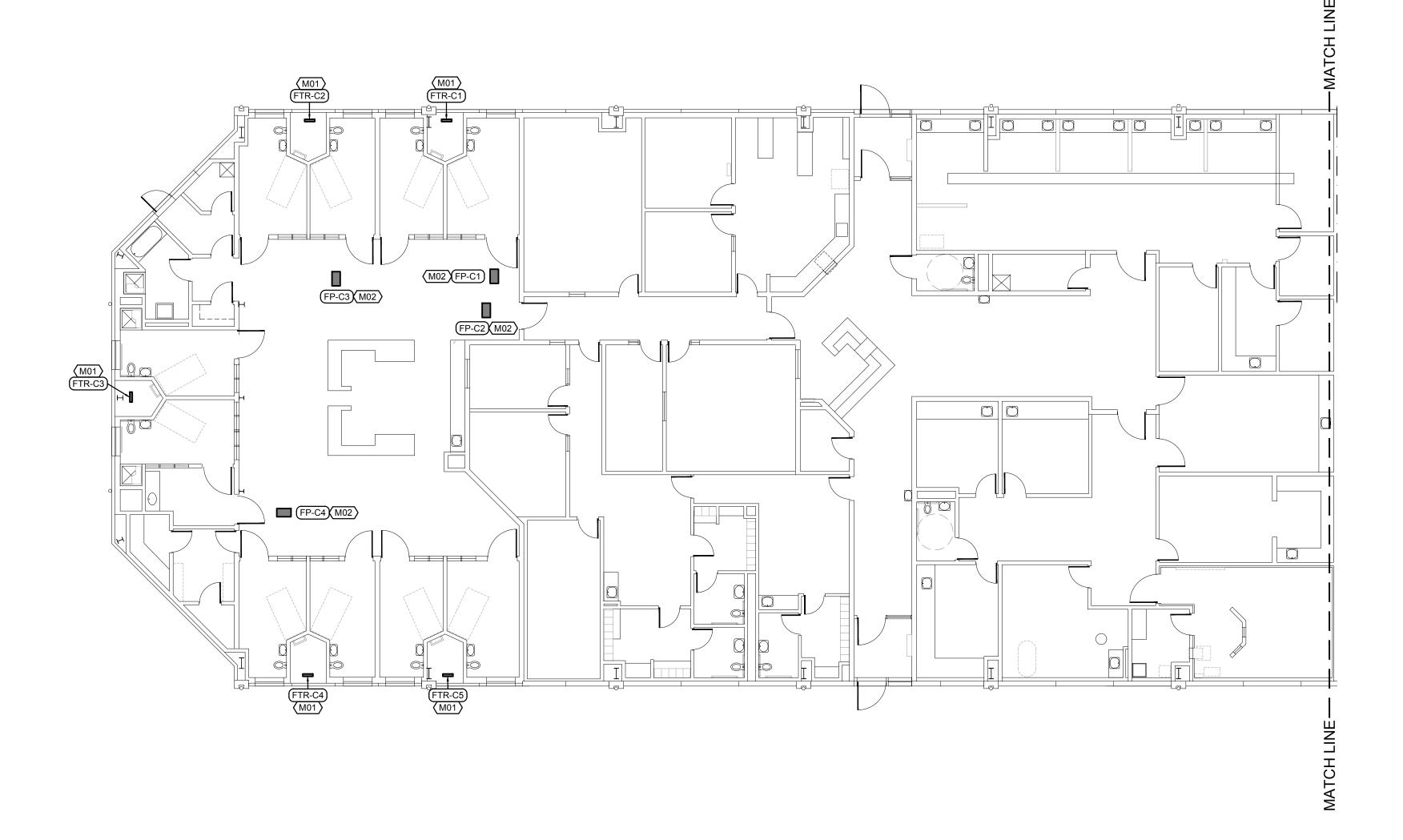
SHEET TITLE:

MECHANICAL ENLARGED FLOOR PLAN HOUSING UNITS 4 & 5, 6 THRU 8

(ALTERNATE NO. 1), 9 & 10 (ALTERNATE NO. 2)

SHEET NUMBER:

M-108



ENLARGED FLOOR PLAN-MECHANICAL SCALE: 3/32"=1'-0"

## FLOOR PLAN NOTES

- REPLACE EXISTING FINNED TUB RADIATOR (SPECIFICATION 238236) WITH NEW. REPLACE
  ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT
  WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING
  CONDITION. REFER TO SHEET M-200 DETAIL 7 FOR ADDITIONAL INFORMATION
- 2. REPLACE EXISTING FAN POWERED BOX (SPECIFICATION 238219) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 2 FOR ADDITIONAL INFORMATION.









+ associates

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

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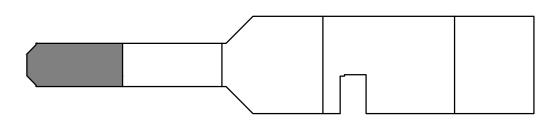
WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011029

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ISSUE DATE: 04/05/2024

SHEET TITLE:

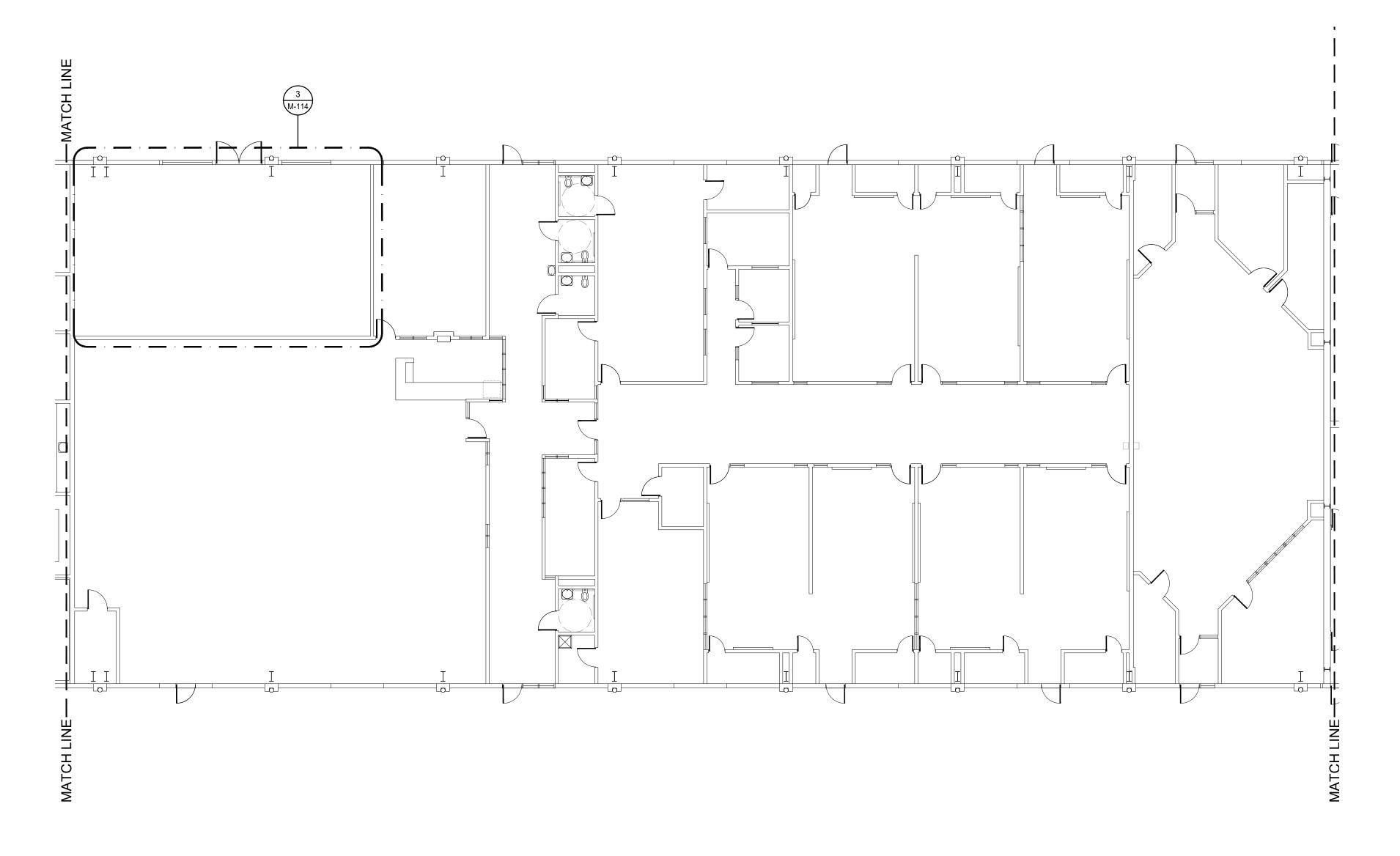
MECHANICAL PLAN
CENTRAL SERVICES
BUILDING



CENTRAL SERVICES KEY PLAN
NO SCALE

SHEET NUMBER:

M-109



ENLARGED FLOOR PLAN-MECHANICAL SCALE: 3/32"=1'-0"

#### STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







+ associates

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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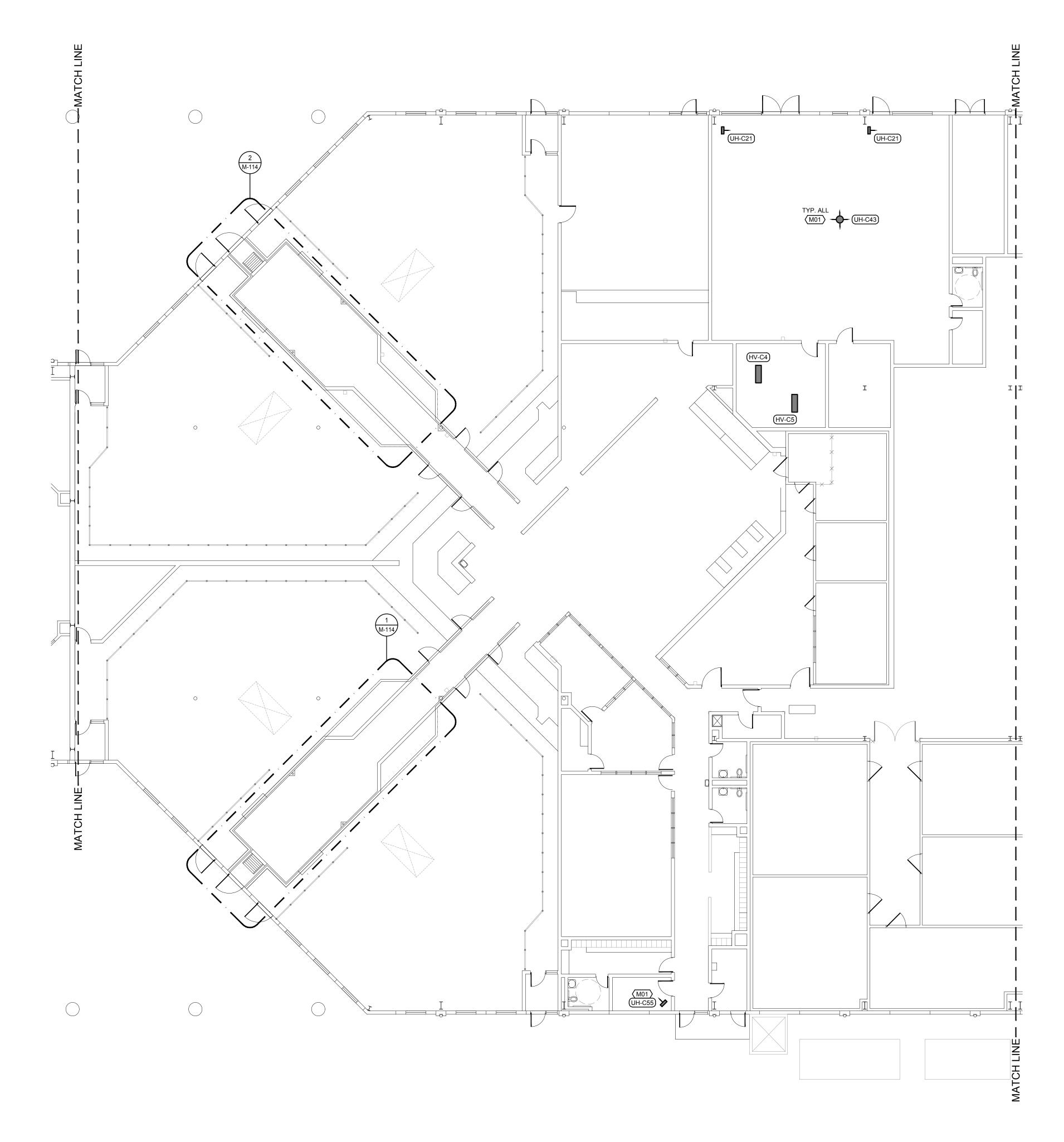
MECHANICAL PLAN
CENTRAL SERVICES
BUILDING

SHEET NUMBER:

CENTRAL SERVICES KEY PLAN

NO SCALE

M-110



# ENLARGED FLOOR PLAN-MECHANICAL SCALE: 3/32"=1'-0"

## **FLOOR PLAN NOTES**

1. REPLACE EXISTING UNIT HEATER (SPECIFICATION 238239.16) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 6 FOR ADDITIONAL INFORMATION.









+ associates

+ dSSUUIdleS 30 Walnut Street Kansas Citv. Missouri (

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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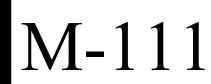
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ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL PLAN
CENTRAL SERVICES
BUILDING

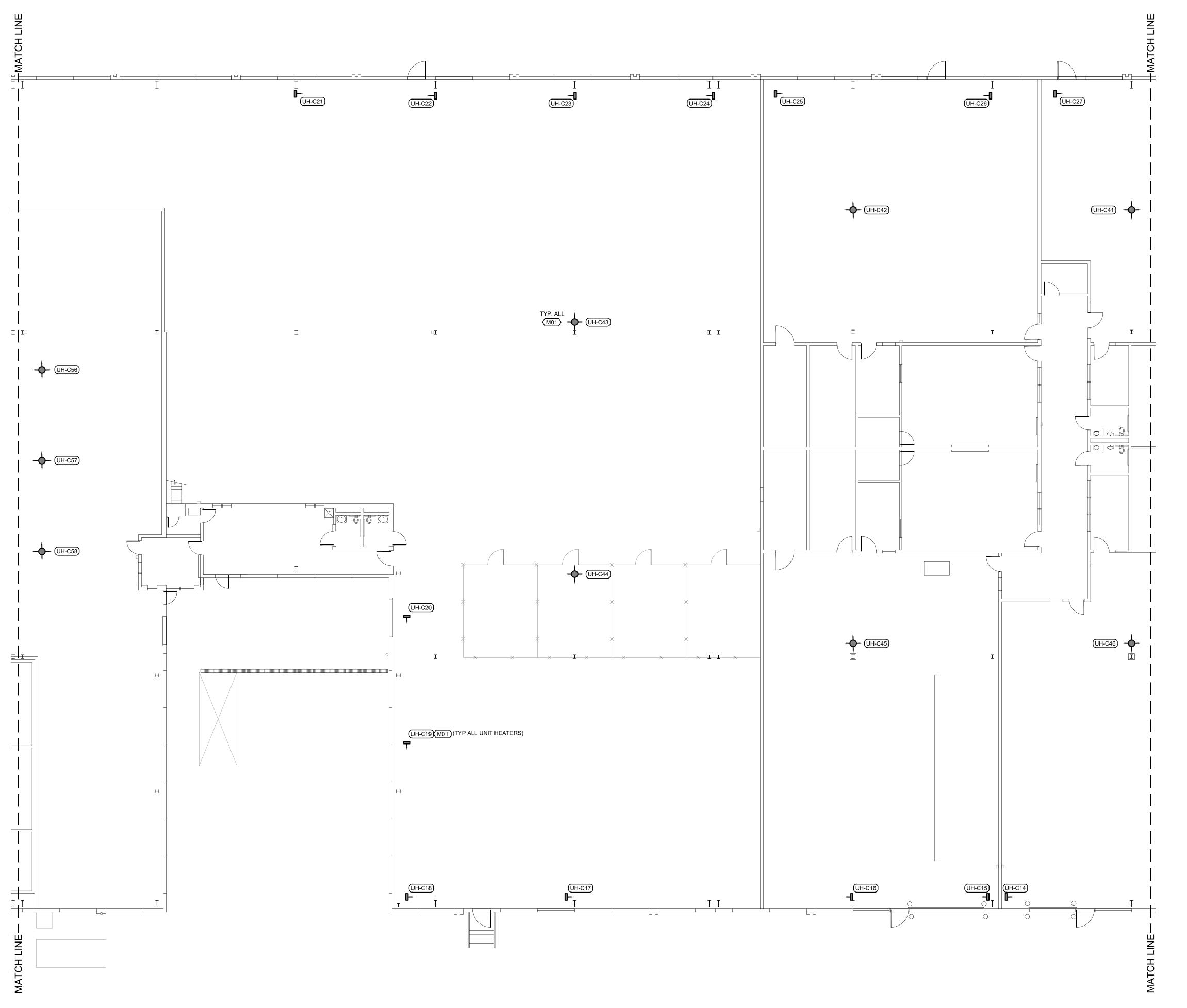
SHEET NUMBER:



13 OF 18 SHEETS

04/05/2024

CENTRAL SERVICES KEY PLAN
NO SCALE



ENLARGED FLOOR PLAN-MECHANICAL SCALE: 3/32"=1'-0"

## FLOOR PLAN NOTES

REPLACE EXISTING UNIT HEATER (SPECIFICATION 238239.16) WITH NEW. REPLACE ALL ASSOCIATED VALVES AND DIELECTRIC FITTINGS WITH NEW. MATCH EXISTING HOT WATER PIPE SIZE AND PROVIDE NEW INSULATED PIPING AS NEEDED. MATCH EXISTING CONDITION. REFER TO SHEET M-200 DETAIL 6 FOR ADDITIONAL INFORMATION.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 







1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429 LANKFORD | FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC. COPYRIGHT  $\bigcirc$  2023 Project No. 23.7312.00 COA No. 2006001168

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

UPDATE FACILITY HEATING, MULTIPLE ASSETS

WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 7011 ASSET # 9327011029

**REVISION:** REVISION: ISSUE DATE: 04/05/2024

SHEET TITLE:

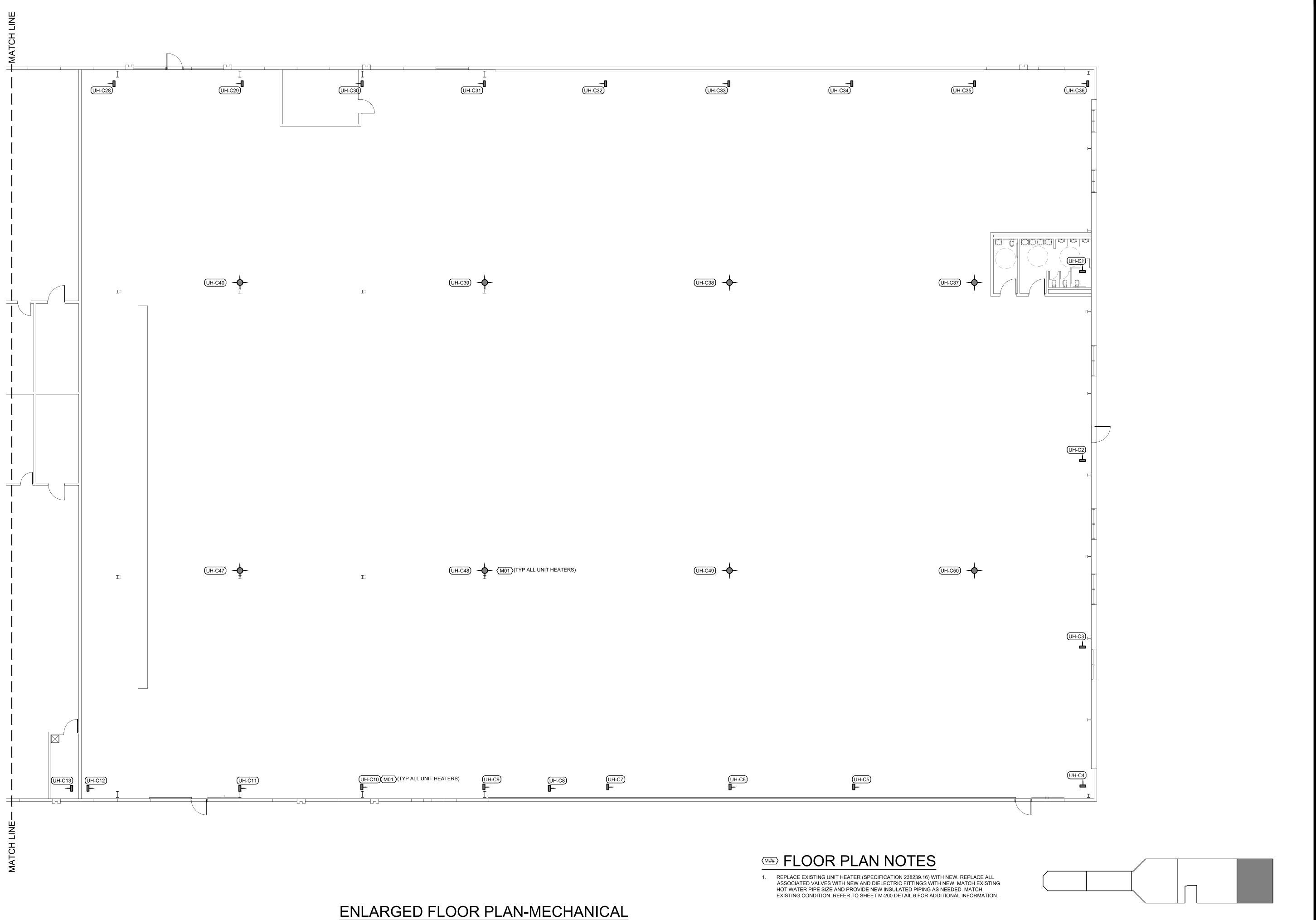
MECHANICAL PLAN CENTRAL SERVICES BUILDING

SHEET NUMBER:

14 OF 18 SHEETS

04/05/2024

CENTRAL SERVICES KEY PLAN M-112 NO SCALE



SCALE: 3/32"=1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 





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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

UPDATE FACILITY HEATING, MULTIPLE ASSETS

WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 7011 9327011029 ASSET#

**REVISION:** DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUE DATE: 04/05/2024

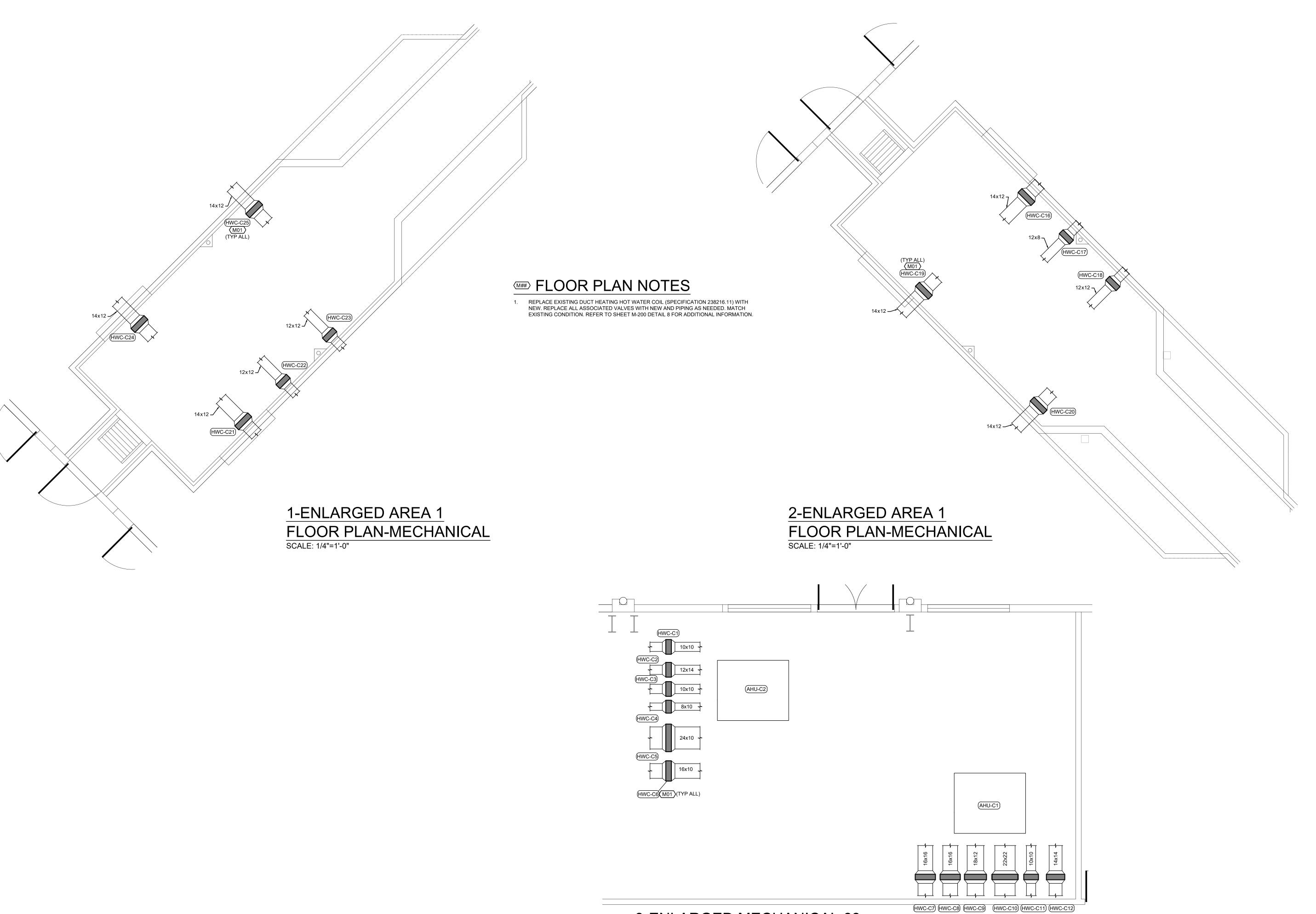
SHEET TITLE:

MECHANICAL PLAN CENTRAL SERVICES BUILDING

SHEET NUMBER:

NO SCALE

CENTRAL SERVICES KEY PLAN M-113



3-ENLARGED MECHANICAL 68

FLOOR PLAN-MECHANICAL

SCALE: 1/4"=1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR







+ associates

1730 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

UPDATE FACILITY HEATING, MULTIPLE ASSETS

WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 SITE # 7011 ASSET # 9327011029

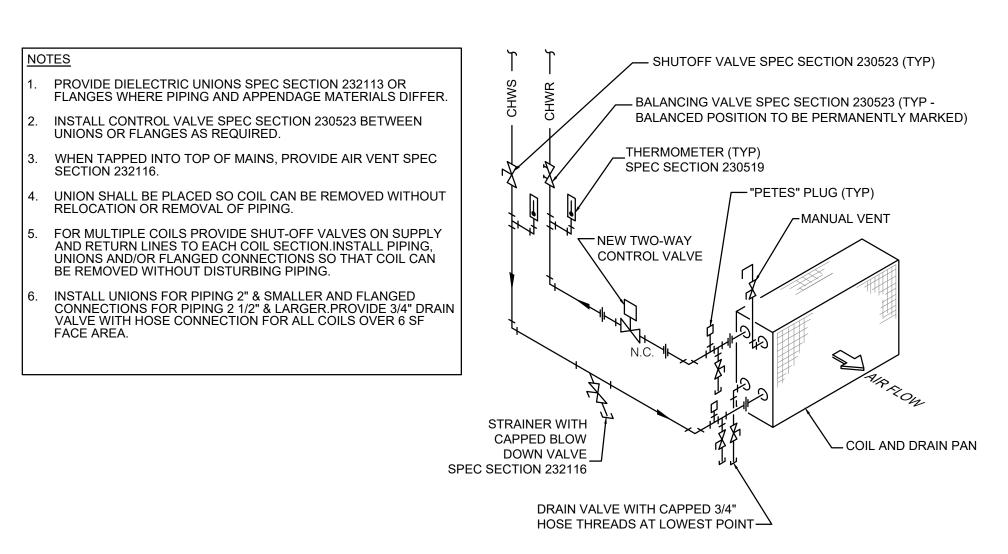
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL
ENLARGED PLANS
CENTRAL SERVICES
BUILDING

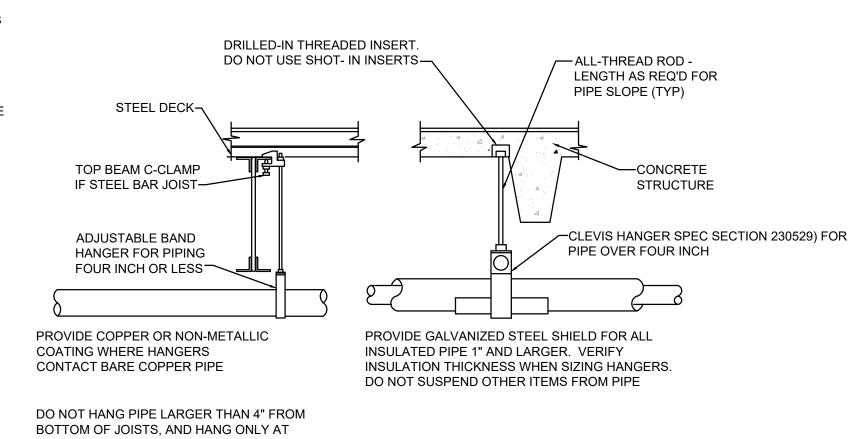
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M-114

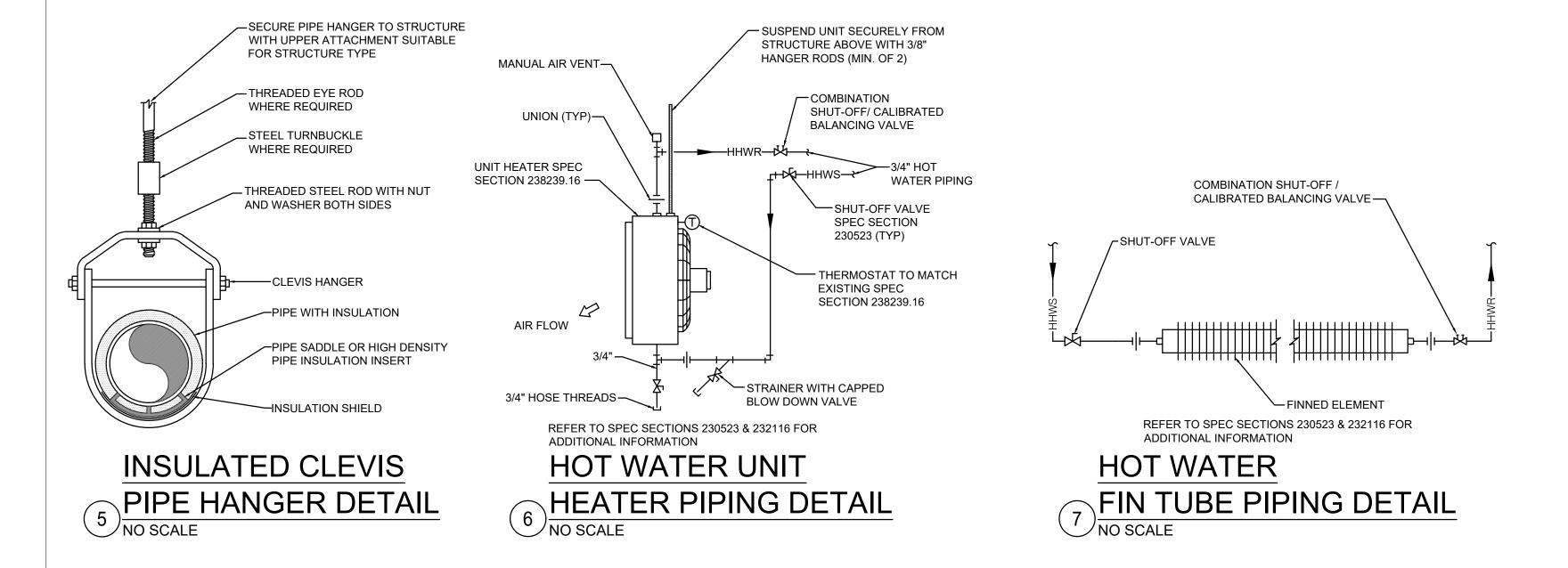


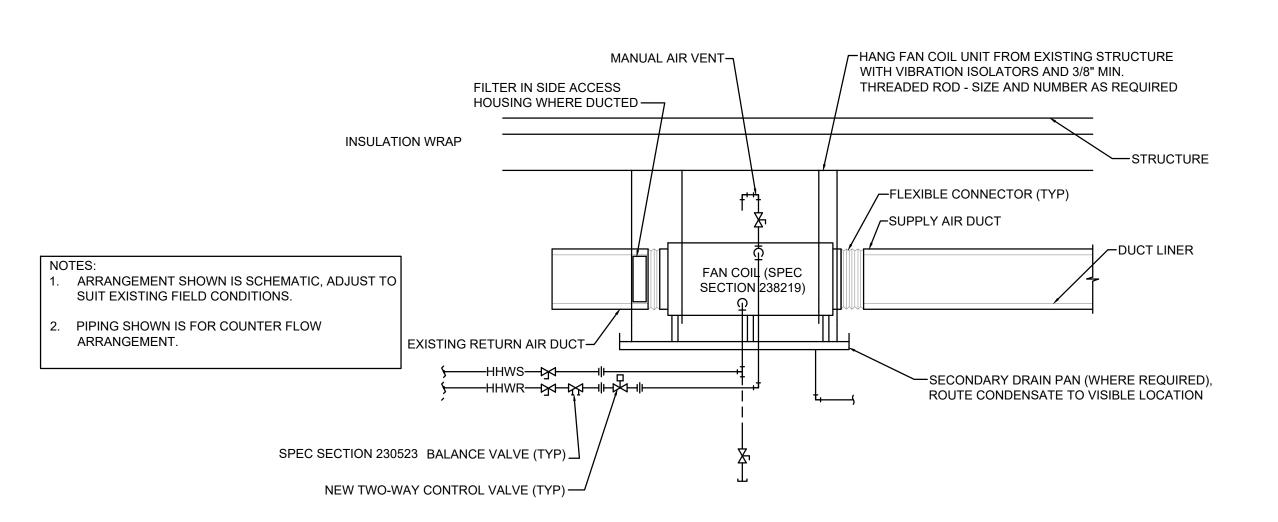
#### AHU HHW COIL PIPING DETAIL 2-WAY CONTROL VALVE

PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS (SPEC SECTION 230529) MAY BE USED FOR MULTIPLE PARALLEL PIPES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12' 3"=11' 2-1/2"=10' 2"=9' 1-1/2"=8' 1-1/4"=7' 1"=6' 3/4"=6' 1/2"=5'. CAST IRON: 10' AND ONE NEAR ALL JOINTS. STEEL: 4"=14' 3"=12' 2-1/2"=11' 2"=10' 1-1/2"=9' 1"=7' 3/4"=6' 1/2"=5'. LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE. DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS.

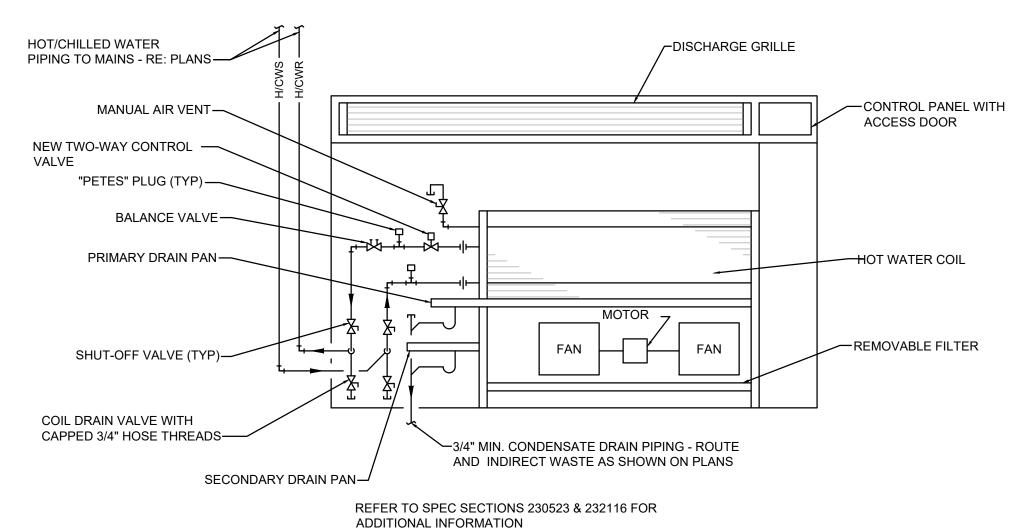


# PIPE HANGER DETAIL

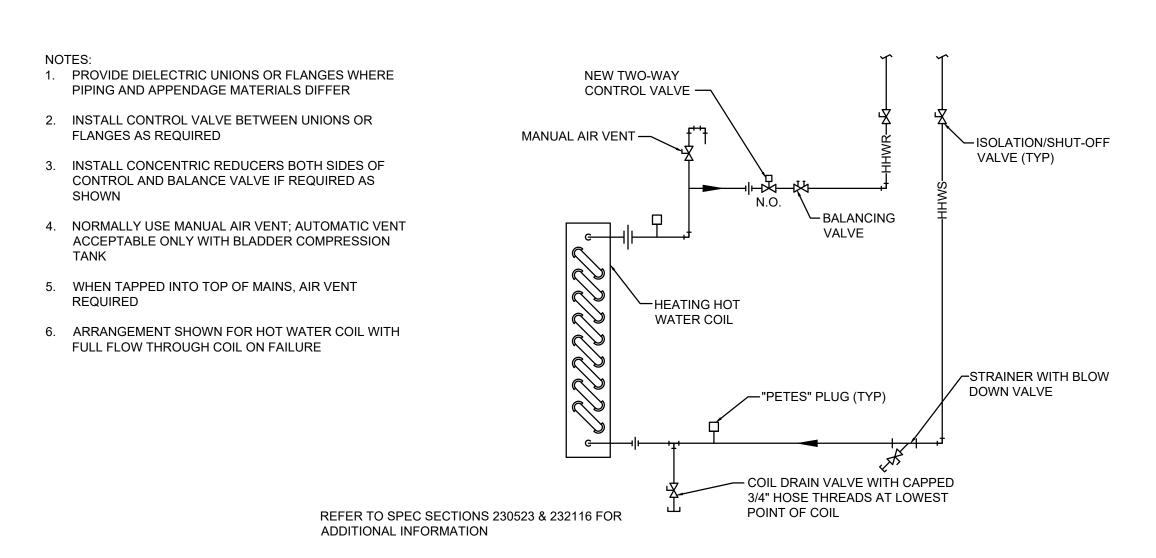




# HORIZONTAL PIPE FAN COIL UNIT PIPING DETAIL



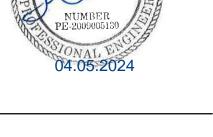
#### **FLOOR MOUNTED FAN COIL UNIT PIPING DETAIL** ノNO SCALE 2-WAY CONTROL VALVE



2-WAY HOT WATER COIL PIPING DETAIL

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 





1730 Walnut Street Kansas City, Missouri 64108

1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429 NKFORD I FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC COPYRIGHT (2) 2023 Project No. 23.7312.00 COA No. 2006001168

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

**UPDATE FACILITY** HEATING, MULTIPLE **ASSETS** 

WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01 7011

9327011021-29 ASSET# 9327011035-37

9327011040 **REVISION:** DATE: **REVISION:** DATE: **REVISION**: DATE: ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

				AIR				PERFO	ORMANCE					E	LECTRICA	' <u>L</u>
MARK NO.	MANUFACTURER	MODEL	TYPE	FLOW (CFM)	TOTAL (MBH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)	WPD (FT)	BRANCH PIPE SIZE (IN.)	NOTES	VOLT	PHASE	HZ
UH-C1 THRU C36	MODINE	HSB 18	HORIZONTAL	340	11,830	65	95	190	60	1.2	0.4	3/4"	1,2,3	120	1	60
UH-C37 THRU C50	MODINE	V 59	VERTICAL	1190	43,092	65	95	190	60	4.4	0.4	3/4"	1,3	120	1	60
UH-M1,M2	MODINE	HSB 18	HORIZONTAL	340	4,850	65	95	190	60	0.5	0.4	3/4"	1,2,3	120	1	60
UH-M3	MODINE	HSB 18	HORIZONTAL	340	9,700	65	95	190	60	1	0.4	3/4"	1,2,3	120	1	60
UH-M4	MODINE	HSB 18	HORIZONTAL	340	4,850	65	95	190	60	0.5	0.4	3/4"	1,2,3	120	1	60
UH-M5,M6	MODINE	V 42	VERTICAL	950	12,315	65	95	190	60	1.3	0.4	3/4"	1,3	120	1	60
UH-M7,M8	MODINE	HSB 18	HORIZONTAL	340	4,850	65	95	190	60	0.5	0.4	3/4"	1,2,3	120	1	60
UH-M9	MODINE	V 42	VERTICAL	950	12,315	65	95	190	60	1	0.4	3/4"	1,3	120	1	60
UH-M10 THRU M13	MODINE	HSB 18	HORIZONTAL	340	4,850	65	95	190	60	0.5	0.4	3/4"	1,2,3	120	1	60
UH-M14	MODINE	HSB 18	HORIZONTAL	340	9,700	65	95	190	60	1	0.4	3/4"	1,2,3	120	1	60
UH-M15 THRU M18	MODINE	HSB 18	HORIZONTAL	340	4,850	65	95	190	60	0.5	0.4	3/4"	1,2,3	120	1	60
UH-M19, M20	MODINE	V 42	VERTICAL	950	12,315	65	95	190	60	1.3	0.4	3/4"	1,3	120	1	60
UH-R1,44,R13,R14,R16	MODINE	V 42	VERTICAL	950	12,315	65	95	190	60	1.3	0.4	3/4"	1,3	120	1	60
JH-R2,R3, R9 THRU R12	MODINE	V 42	VERTICAL	950	16,715	65	95	190	60	1.8	0.4	3/4"	1,3	120	1	60
UH-R5 THRU R8	MODINE	HSB 18	HORIZONTAL	340	20,925	65	95	190	60	2.2	0.4	3/4"	1,2,3	120	1	60
UH-R15	MODINE	HSB 18	HORIZONTAL	340	9,460	65	95	190	60	1	0.4	3/4"	1,2,3	120	1	60
UH-P1 THRU P5	MODINE	-	HORIZONTAL	340	50,000	65	95	190	60	2.5	0.4	3/4"	1,2,3	120	1	60

		Ι	AIR	I				PERF	ORMANCE				Г
MARK NO.	MANUFACTURER	MODEL	FLOW (CFM)	SIZE (IN)	TOTAL (MBH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)	MAX WPD (FT)	BRANCH PIPE SIZE (IN.)	١
HWC-A1	USA COIL & AIR	CW12GFP	690	21x15	23,550	58.4	90	190	160	1.6	10	3/4	t
HWC-A2	USA COIL & AIR	CW12GFP	475	21x16	16,210	58.4	90	190	160	1.1	10	3/4	Γ
HWC-A3	USA COIL & AIR	CW12GFP	4,685	41x22	159,890	58.4	90	190	160	10.7	10	1-1/4	Γ
HWC-A4	USA COIL & AIR	CW12GFP	2,905	30x22	99,150	58.4	90	190	160	6.6	10	1	Γ
HWC-A5	USA COIL & AIR	CW12GFP	1,075	22x15	25,775	67.8	95	190	160	1.7	10	3/4	Γ
HWC-A6	USA COIL & AIR	CW12GFP	380	12x9	9,110	67.8	95	190	160	0.6	10	3/4	
HWC-A7	USA COIL & AIR	CW12GFP	465	12x9	11,150	67.8	95	190	160	0.7	10	3/4	Γ
HWC-A8	USA COIL & AIR	CW12GFP	120	12x9	2,880	67.8	95	190	160	0.2	10	3/4	Γ
HWC-A9	USA COIL & AIR	CW12GFP	475	12x9	11,390	67.8	95	190	160	0.8	10	3/4	Γ
HWC-A10	USA COIL & AIR	CW12GFP	400	10x9	15,810	53.4	95	190	160	1.1	10	3/4	Γ
HWC-A11	USA COIL & AIR	CW12GFP	1,335	21x15	52,770	53.4	95	190	160	3.5	10	3/4	
HWC-A12	USA COIL & AIR	CW12GFP	640	15x12	25,300	53.4	95	190	160	1.7	10	3/4	
HWC-A13	USA COIL & AIR	CW12GFP	1,390	20x15	25,300	53.4	95	190	160	1.7	10	3/4	Ĺ
HWC-A14	USA COIL & AIR	CW12GFP	405	10x10	16,010	53.4	95	190	160	1.1	10	3/4	Ĺ
HWC-C1	USA COIL & AIR	CW12GFP	570	15x12	13,300	63.4	85	190	160	0.9	10	3/4	ſ
HWC-C2	USA COIL & AIR	CW12GFP	1,575	24x16	36,745	63.4	85	190	160	2.4	10	3/4	Ĺ
HWC-C3	USA COIL & AIR	CW12GFP	740	15x12	17,265	63.4	85	190	160	1.2	10	3/4	
HWC-C4	USA COIL & AIR	CW12GFP	470	12x10	10,965	63.4	85	190	160	0.7	10	3/4	L
HWC-C5	USA COIL & AIR	CW12GFP	1,355	22x15	31,610	63.4	85	190	160	2.1	10	3/4	L
HWC-C6	USA COIL & AIR	CW12GFP	1,120	18x16	26,130	63.4	85	190	160	1.7	10	3/4	L
HWC-C7	USA COIL & AIR	CW12GFP	2,005	24x16	74,490	55.6	90	190	160	5.0	10	1	L
HWC-C8	USA COIL & AIR	CW12GFP	1,475	22x16	54,800	55.6	90	190	160	3.7	10	3/4	L
HWC-C9	USA COIL & AIR	CW12GFP	2,000	22x18	74,305	55.6	90	190	160	5.0	10	1	L
HWC-C10	USA COIL & AIR	CW12GFP	4,840	42x24	179,815	55.6	90	190	160	12.0	10	1-1/4	L
HWC-C11	USA COIL & AIR	CW12GFP	850	18x12	31,580	55.6	90	190	160	2.1	10	3/4	L
HWC-C12	USA COIL & AIR	CW12GFP	1,650	20x18	61,300	55.6	90	190	160	4.1	10	1	L
HWC-C16	USA COIL & AIR	CW12GFP	740	15x12	17,265	63.4	85	190	160	1.2	10	3/4	L
HWC-C17	USA COIL & AIR	CW12GFP	465	12x10	11,150	67.8	95	190	160	0.7	10	3/4	Ļ
HWC-C18	USA COIL & AIR	CW12GFP	570	15x12	13,300	63.4	85	190	160	0.9	10	3/4	Ļ
HWC-C19	USA COIL & AIR	CW12GFP	1,120	18x12	26,130	55.6	90	190	160	1.7	10	3/4	Ļ
HWC-C20	USA COIL & AIR	CW12GFP	1,120	18x15	26,130	55.6	90	190	160	1.7	10	3/4	Ļ
HWC-C21	USA COIL & AIR	CW12GFP	1,120	18x16	26,130	55.6	90	190	160	1.7	10	3/4	Ļ
HWC-C22	USA COIL & AIR	CW12GFP	465	12x10	11,150	55.6	90	190	160	0.7	10	3/4	Ļ
HWC-C23	USA COIL & AIR	CW12GFP	570	15x12	13,300	63.4	85	190	160	0.9	10	3/4	Ł
HWC-C24	USA COIL & AIR	CW12GFP	570	15x12	13,300	63.4	85	190	160	0.9	10	3/4	H
HWC-C25	USA COIL & AIR	CW12GFP	570 750	15x12	13,300	63.4	85	190	160	0.9	10	3/4	H
HWC-R1	USA COIL & AIR	CW12GFP	750	20x16	27,054	56.6	90	190	160	1.8	10	3/4	H
HWC-R2	USA COIL & AIR	CW12GFP	1,400	20x16	35,834	66.3	90	190 190	160	2.4	10	3/4 3/4	H
HWC-H1A	USA COIL & AIR	CW12GFP	885 660	14x12	37,810	40.4	85 85	190	160 160	2.5	10	3/4	H
HVVC-H1A HV-C1,C2	USA COIL & AIR USA COIL & AIR	CW12GFP CW12GFP	660 4,630	14x12 42x36	14,270 82,256	61.4 65	85 95	190	160 160	1.0 5.5	10 10	3/4 1	H
HV-C1,C2	USA COIL & AIR	CW12GFP	2,520	36x36	38,510	65	95	190	160	2.6	10	3/4	H
HV-C4	USA COIL & AIR	CW12GFP	2,520	78x36	38,510	65	95	190	160	2.6	10	3/4	H
HV-C5	USA COIL & AIR	CW12GFP	2,500	64x36	38,510	65	95	190	160	2.6	10	3/4	H
HV-U3 HV-V1	_	+		114X40				190	160	52.1	10	2	H
HV-V1 HV-H1	USA COIL & AIR	CW12GFP CW12GFP	20,000	24x12	782,000 25,775	51.8 67.8	88 95	190	160		10	3/4	H
HV-H1 HV-H2	USA COIL & AIR USA COIL & AIR	CW12GFP	1,300 1,300	18x12	25,775 25,775	67.8	95 95	190	160	1.7	10	3/4	H
ΠV-Π2	USA COIL & AIR	CVVIZGFP	1,300	10X12	25,775	07.0	95	190	160	1.7	10	3/4	L

2. FRONT TOE SPACE INLET AND TOP BAR GRILLE OUTLET.

3. PROVIDE WITH INTEGRAL DISCONNECT SWITCH AND THERMOSTAT TO MATCH EXISTING CONDITION.

							PERFO	DRMANCE				
MARK	MANUFACTURER	MODEL	TYPE	TOTAL	EAT	LAT	EWT	LWT	FLOW	WPD	BRANCH PIPE	NOTE
NO.				(MBH)	(°F)	(°F)	(°F)	(°F)	(GPM)	(FT)	SIZE (IN.)	
BH-P1	MODINE	ETT024	BASEBOARD	5,800	60	95	190	160	0.6	5	3/4	1,2,3
BH-P2	MODINE	ETT024	BASEBOARD	6,200	65	95	190	160	1.25	5	3/4	1,2,3
BH-P2A	MODINE	ETT024	BASEBOARD	6,200	65	95	190	160	1.25	5	3/4	1,2,3
BH-R1	MODINE	ETT024	BASEBOARD	5,000	65	95	190	160	0.52	5	3/4	1,2,3
BH-R2	MODINE	ETT024	BASEBOARD	18,000	65	95	190	160	1.86	5	3/4	1,2,3

							PERFO	ORMANCE				
MARK	MANUFACTURER	MODEL	TYPE	TOTAL	EAT	LAT	EWT	LWT	FLOW	WPD	BRANCH PIPE	NOTES
NO.				(MBH)	(°F)	(°F)	(°F)	(°F)	(GPM)	(FT)	SIZE (IN.)	
FTR-C1 THRU C5	MODINE	ETFT0003	CHASE HEAT	2,425	50	80	190	160	0.5	5.6	3/4	1

				SUPPL	Y FAN		ŀ	HEATING CO	L-HYDRONI	C			E	LECTRICA	L
MARK	MANUFACTURER	MODEL	ARRANGEMENT	AIRFLOW	ESP	TOTAL	EAT	LAT	EWT	LWT	GPM	NOTES	VOLT	PHASE	HZ
				CFM	(IN W.G.)	MBH	(°F)	(°F)	(°F)	(°F)	GPIVI		VOLI	PHASE	112
-C-A1,A2,A3	DAIKIN	FHVC102A	VERTICAL	200	0.125	2590	65	84	190	160	0.5	1,2,3	120	1	60
FC-A4	DAIKIN	FHHC102A	HORIZONTAL	200	0.25	2590	65	84	190	160	0.5	1,2,3	120	1	60

			ABS. MIN.	SUPPL	Y FAN		F	HEATING CO	IL-HYDRONI	С			E	LECTRICA	۱L
MARK	MANUFACTURER	MODEL	OA	AIRFLOW	ESP	TOTAL	EAT	LAT	EWT	LWT	GPM	NOTES	VOLT	PHASE	H
			CFM	CFM	(IN W.G.)	MBH	(°F)	(°F)	(°F)	(°F)	GFIVI		VOLI	FHASL	
FP-C1	DAIKIN	MQFVI-500	200	400	0.25	9302	57.5	90	190	160	0.96	1,2,3	120	1	60
FP-C2	DAIKIN	MQFVI-500	200	1215	0.25	17607	52.6	80	190	160	1.82	1,2,3	120	1	60
FP-C3	DAIKIN	MQFVI-500	200	240	0.25	5733	60.6	90	190	160	0.59	1,2,3	120	1	60
FP-C4	DAIKIN	MQFVI-500	200	260	0.25	6627	60.1	90	190	160	0.68	1,2,3	120	1	60

3. PROVIDE WITH FRONT INLET AND BACK OUTLET CONNECTION.

2. PROVIDE 1" PANEL THROWAWAY AIR FILTERS.

3. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.

# GENERAL NOTES (TYPICAL ALL SHEETS)

- A. MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. ALL EXISTING DUCTWORK SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO ACCOMMODATE EXACT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS.
- CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER
- D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING
- E. ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND LEGALLY DISPOSED OF BY CONTRACTOR.
- F. MECHANICAL CONTRACTOR SHALL REMOVE, PATCH AIR TIGHT AND REINSULATE ALL DUCTWORK TAPS NOT REUSED WITH SAME MATERIAL AS EXISTING DUCTWORK.
- G. ALL REMOVED DEVICES THAT ARE BEING REUSED FOR NEW CONSTRUCTION SHALL BE CLEANED OF ALL DIRT AND STORED ON SITE.
- H. ALL THERMOSTATS SHALL BE MOUNTED TO MATCH BUILDING STANDARDS UNLESS OTHERWISE
- INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS. GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- J. REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW WHERE INDICATED. THERMOSTAT COVERS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED. THERMOSTATS/SENSORS SHALL BE INSTALLED AND CALIBRATED PRIOR TO TEST AND BALANCE PER SPECIFICATION SECTION 230593. INTEGRATE NEW DIGITAL THERMOSTATS/SENSORS INTO THE EXISTING BUILDING ENERGY MANAGEMENT SYSTEM AS REQUIRED.
- K. AT CONCLUSION OF PROJECT, CONTRACTOR SHALL PROVIDE DOCUMENTATION TO OWNER'S REPRESENTATIVE FOR EQUIPMENT MANUFACTURER'S STANDARD AND EXTENDED WARRANTY REGISTRATION AS STATED IN ASSOCIATED SPECIFICATION.
- L. COORDINATE ALL EXISTING BAS CONTROLS WORK WITH COREY SCHEPERS WITH C&C GROUP AT 913-530-7369, EMAIL Cschepers@c-cgroup.com. MECHANICAL CONTRACTOR BID MUST INCLUDE ALL WORK DONE BY C&C GROUP.
- M. HOUSING UNIT (HU-6,7,8) ARE PART OF ALTERNATE NO. 1 WORK. PROVIDE SEPARATE PRICING.
- N. HOUSING UNIT (HU-9 & 10) AND RECREATION BUILDING B ARE PART OF ALTERNATE NO. 2 WORK. PROVIDE SEPARATE PRICING.

COORDINATE WATER TREATMENT WORK DURING BIDDING WITH ROGER SMITH AT WALTER LOUIS FLUID TECHNOLOGIES (EMAIL: ROGER@WALTERLOUIS.COM PHONE#: 217-653-7538

# MECHANICAL SYMBOLS

OR — EXISTING DUCTWORK TO REMAIN NEW DUCTWORK  $\boxtimes$ SUPPLY DUCT RETURN DUCT THERMOSTAT, MOUNT TOP AT 48" AFF. SUPPLY DUCT DOWN SUPPLY DUCT UP RETURN DUCT DOWN RETURN DUCT UP HEATING HOT WATER SUPPLY HEATING HOT WATER RETURN **EQUIPMENT TYPE AND DESIGNATION** MECHANICAL COIL OR FINNED TUBE HEATER



#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**







1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429 LANKFORD | FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC. COPYRIGHT © 2023 *Project No.* 23.7312.00

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

**UPDATE FACILITY** HEATING, MULTIPLE **ASSETS** 

WESTERN MISSOURI CORRECTIONAL CENTER 609 East Pence Road Cameron, MO 64429

PROJECT # C2316-01

7011 SITE# ASSET # 9327011021-29

9327011035-37 9327011040

**REVISION:** DATE: REVISION: REVISION:

DATE: ISSUE DATE: 04/05/2024

SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, AND SYMBOLS

SHEET NUMBER: