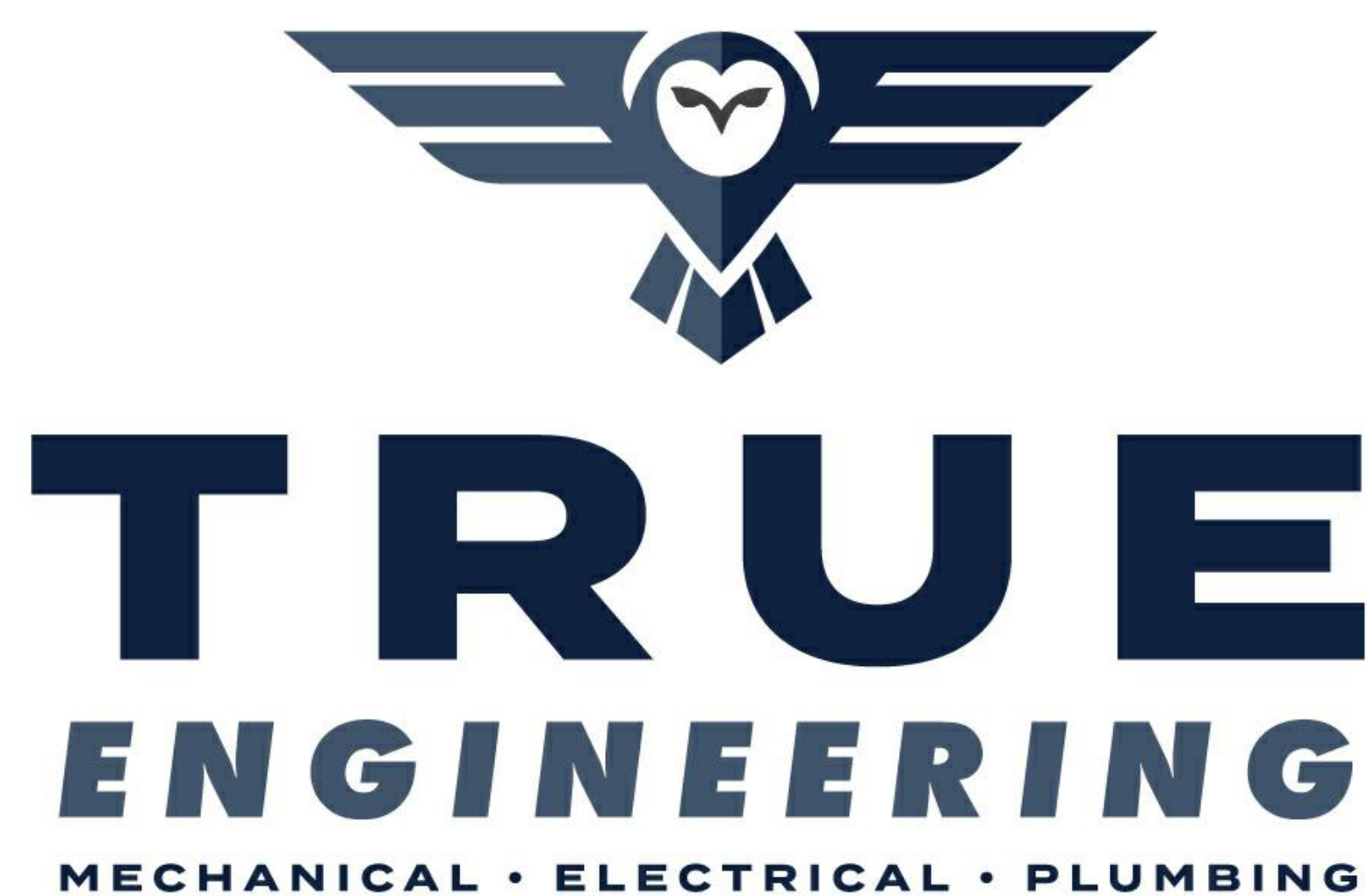


OZARK CORRECTIONAL CENTER - UPGRADE HVAC FORDLAND, MISSOURI



OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
CORRECTIONS

1200 E WOODHURST DR, STE P
SPRINGFIELD, MO 65804
417.708.7025
WWW.TRUE-MEP.COM

DESIGNER: TRUE ENGINEERING GROUP, LLC

PROJECT NUMBER: C2324-01

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

SITE NUMBER: 7003
FACILITY NUMBER: 9327003081

SHEET NUMBER:

G-001

1 OF 31 SHEETS
02/04/2025



TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #0-201600702

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

OSARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
GENERAL SCOPE
PLAN

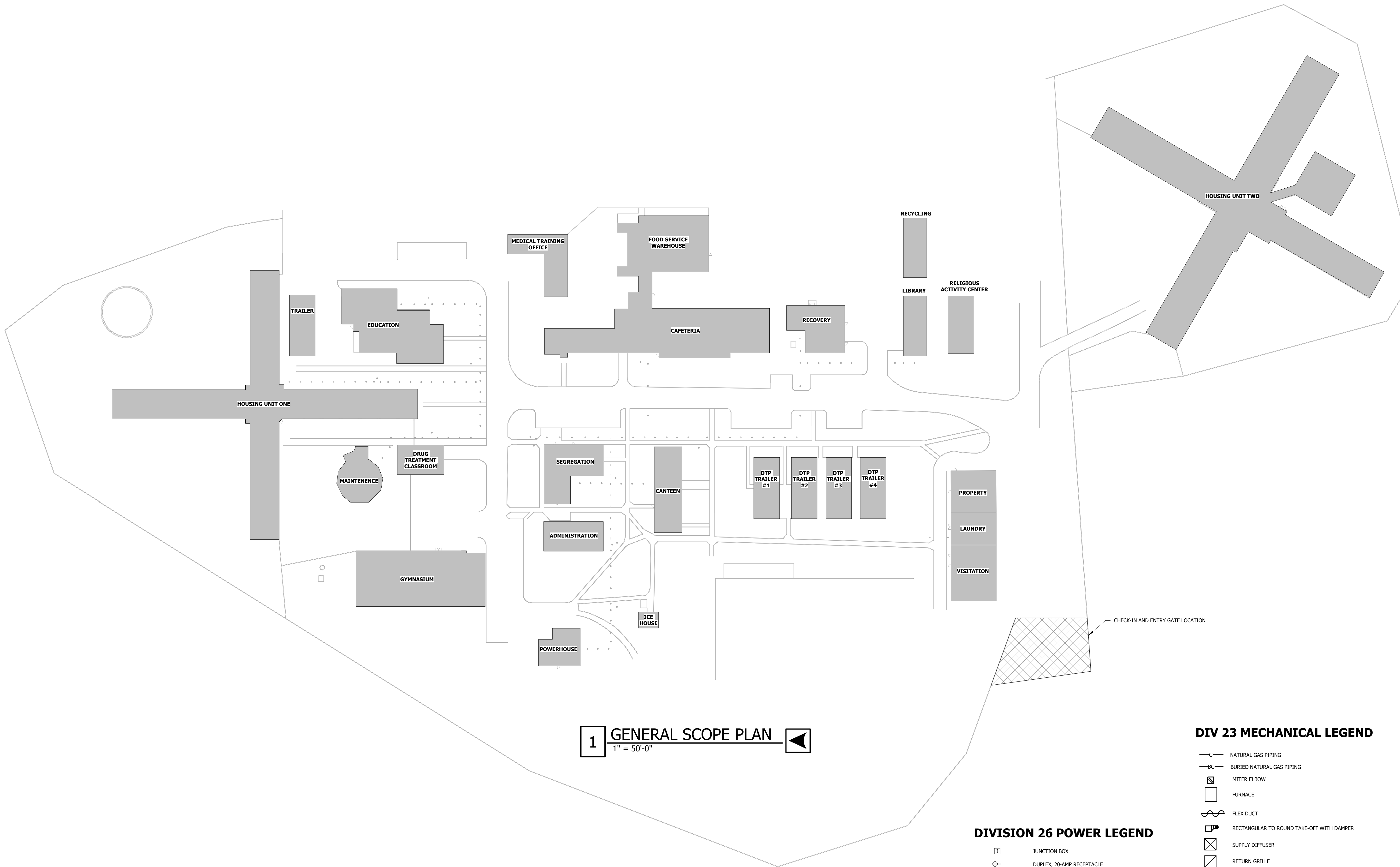
SHEET NUMBER:

G-101

2 OF 31 SHEETS
02/04/2025

SHEET INDEX

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| G-101 | GENERAL SCOPE PLAN |
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| MEP-102 | MEP COORDINATION PLAN - SOUTH |
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| M-002 | DEMO MECHANICAL SITE PLAN - SOUTH |
| M-003 | DEMO MECHANICAL PLAN |
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| E-103 | ELECTRICAL PLAN |
| E-104 | ELECTRICAL PLAN |
| E-201 | ELECTRICAL DETAILS |



1 GENERAL SCOPE PLAN 1" = 50'-0"

DIVISION 26 POWER LEGEND

| | |
|------|---|
| J | JUNCTION BOX |
| ⊕ | DUPLEX, 20-AMP RECEPTACLE |
| ⊕ GF | DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, 20-AMP RECEPTACLE |
| ⊕ WP | DUPLEX WITH WEATHERPROOF ENCLOSURE, 20-AMP RECEPTACLE |
| ■ | LIGHTING AND POWER PANELBOARD |
| ■ | DISTRIBUTION POWER PANELBOARD |

DIV 23 MECHANICAL LEGEND

| | |
|------|---|
| —G— | NATURAL GAS PIPING |
| —BG— | BURIED NATURAL GAS PIPING |
| ⌒ | METER ELBOW |
| □ | FURNACE |
| ⌒ | FLEX DUCT |
| ⌒ | RECTANGULAR TO ROUND TAKE-OFF WITH DAMPER |
| ⊗ | SUPPLY DIFFUSER |
| ⊗ | RETURN GRILLE |
| ⌒ | MANUAL BALANCING DAMPER |
| ⌒ | CONTROL DAMPER WITH ACTUATOR |
| ⌒ | THERMOSTAT |
| ■ | HVAC EQUIPMENT HATCHING. INDICATES NEW EQUIPMENT TO BE PROVIDED AND INSTALLED. REFER TO MECHANICAL SCHEDULE(S). |

DIV 23 PLUMBING LEGEND

| | |
|-----|--|
| —D— | CONDENSATE DRAIN PIPING |
| —F— | FIRE SPRINKLER PIPING |
| — | DOMESTIC COLD WATER PIPING |
| — | DOMESTIC HOT WATER PIPING |
| — | DOMESTIC HOT WATER RETURN PIPING |
| ⌒ | MANUAL SHUT-OFF VALVE |
| ⌒ | REDUCER |
| ⌒ | PRESSURE REDUCING VALVE |
| ⌒ | FINISH FLOOR OR FINISH GRADE CLEANOUT |
| ○ | FLOOR DRAIN |
| ■ | PLUMBING FIXTURE HATCHING. INDICATES NEW PLUMBING FIXTURE TO BE PROVIDED AND INSTALLED. REFER TO PLUMBING FIXTURE SCHEDULE |

SECURITY NOTE:

CONTRACTOR AND ALL EMPLOYEES WILL BE REQUIRED TO CHECK-IN AND CHECK-OUT OF THE FACILITY DAILY.

ALL EMPLOYEES WILL BE REQUIRED TO PERFORM BACKGROUND CHECKS FOR APPROVAL TO ENTER FACILITY.

TRUCKS AND EQUIPMENT ENTERING AND EXITING THE FACILITY WILL REQUIRE INSPECTION.

LARGE EQUIPMENT AND TOOLS CAN BE LEFT IN THE FACILITY BUT MUST BE PROPERLY SECURED AND STORED PER OZARK CORRECTIONAL CENTER REQUIREMENTS.

REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

GAS LOAD TABLE:

EXISTING GAS LOAD FOR EXISTING POWERHOUSE

1. ALL EXISTING GAS LOADS FROM EXISTING POWERHOUSE SHALL REMAIN IN USE UNTIL CONSTRUCTION HAS BEEN COMPLETED.

NEW GAS LOAD FOR EXISTING POWERHOUSE

1. ADD 5 PSI SERVICE TO EXISTING GAS MAIN LOCATION. VERIFY EXISTING SERVICE PRESSURE. PROVIDE NEW GAS METER FOR NEW GAS LOAD. EXISTING METER SERVING THE POWERHOUSE SHALL REMAIN UNTIL STEAM SYSTEM HAS BEEN DECOMMISSIONED.

NEW GAS LOAD TOTALS

A. HOUSING UNIT 1 = 1200 MBH
B. HOUSING UNIT 2 = 1230 MBH
C. CANTEN = 90 MBH
D. EDUCATION = 400 MBH
E. GYM = 285 MBH
F. MAINTENANCE = 210 MBH
G. POWERHOUSE = 75 MBH
H. RECYCLING = 75 MBH

TOTAL = 3,665 MBH

DIVISION 26 SPECIFICATIONS:

26 05 00 - COMMON WORK FOR ELECTRICAL

- ALL ELECTRICAL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2023 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS.
- CONDUIT/CONDUCTOR LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, LIGHT FIXTURES, CONDUITS, ETC.
- COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- MAINTAIN ALL CLEARANCES REQUIRED BY ELECTRICAL EQUIPMENT. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- COORDINATE LIGHT FIXTURE LOCATIONS WITH OWNER, STRUCTURE, AND OTHER TRADES PRIOR TO ROUGH-IN.
- REFER TO SPECIFICATION SHEET SECTIONS FOR ADDITIONAL REQUIREMENTS.

DIVISION 23 SPECIFICATIONS:

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

- ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED MECHANICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2024 INTERNATIONAL MECHANICAL CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS.
- DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, PIPING, LIGHT FIXTURES, CONDUITS, ETC.
- COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- MAINTAIN ALL CLEARANCES REQUIRED BY MECHANICAL EQUIPMENT. COORDINATE WITH ELECTRICAL AND PLUMBING CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

DIVISION 22 SPECIFICATIONS:

22 05 00 - COMMON WORK FOR PLUMBING

- ALL PLUMBING WORK SHALL BE PERFORMED BY LICENSED PLUMBING CONTRACTOR AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2024 INTERNATIONAL PLUMBING CODE AND THE 2024 INTERNATIONAL FUEL GAS CODE AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BID.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS.
- PIPING LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, DUCTWORK, LIGHT FIXTURES, CONDUITS, ETC.
- COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- MAINTAIN ALL CLEARANCES REQUIRED BY PLUMBING EQUIPMENT. COORDINATE WITH ELECTRICAL AND HVAC CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIALS FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

PERMITTING NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INSTALLATION PERMITS REQUIRED FOR THE PROJECT.

ELECTRICAL DEMO NOTES:

- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLISHED ITEMS.
- THE CONTRACTOR SHALL FIELD VISIT THE SITE TO CONFIRM EXISTING CONDITIONS.
- REMOVE CONDUIT, CONDUCTORS, SUPPORTS, ETC. BACK TO ELECTRICAL PANEL.
- CONTRACTOR SHALL REPAIR ALL HOLES CREATED BY REMOVAL OF EXISTING ELECTRICAL EQUIPMENT.

WORK SEQUENCE NOTE:

- ALL NEW DOMESTIC HOT WATER SYSTEMS, FORCED AIR NATURAL GAS HEATING SYSTEMS, NATURAL GAS UNIT HEATERS, PACKAGED ROOFTOP UNITS, ELECTRIC HEATING SYSTEMS, AND BUILDING AUTOMATION SYSTEMS SHALL BE INSTALLED AND OPERATIONAL AS DESIGNED PRIOR TO DECOMMISSIONING THE STEAM SYSTEM.
- STEAM SYSTEM SHALL NOT BE DECOMMISSIONED UNTIL AUTHORIZATION BY THE OWNER. CONTACT ENGINEER TO COORDINATE REQUIREMENTS PRIOR TO ANY DEMOLITION OF STEAM OR CONDENSATE SYSTEMS.
- REFER TO SPECIFICATION SECTION 01 10 00 - SUMMARY OF WORK FOR FURTHER WORK SEQUENCING REQUIREMENTS.

MECHANICAL DEMO NOTES:

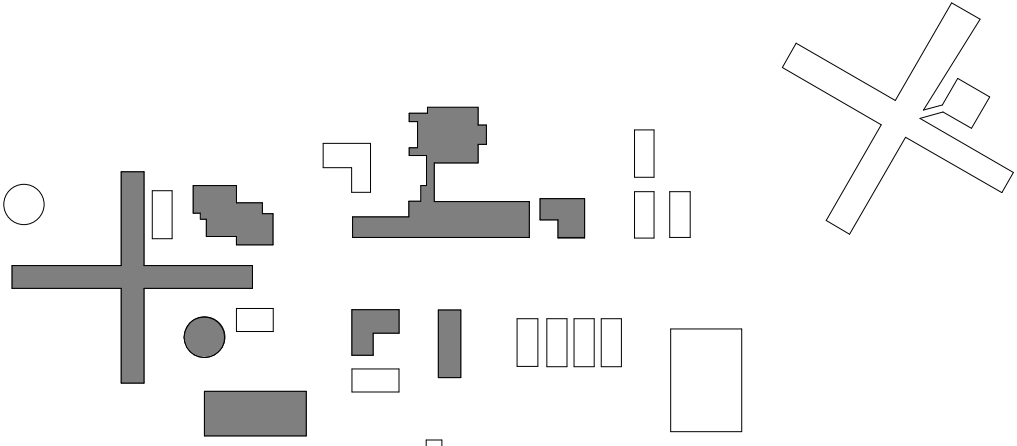
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DEMOLISHED ITEMS.
- THE CONTRACTOR SHALL FIELD VISIT THE SITE TO CONFIRM EXISTING CONDITIONS.
- REMOVE SUPPORTS, ETC. ASSOCIATED WITH DEMOLISHED ITEMS.
- CONTRACTOR SHALL REPAIR ALL HOLES CREATED BY REMOVAL OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

| ROOF AND WALL TYPES & ROOF WARRANTY | | | |
|-------------------------------------|------------------|----------------|---------------|
| BUILDING | ROOF | EXTERIOR WALL | ROOF WARRANTY |
| HOUSING UNIT 1 | PITCHED, SHINGLE | BRICK ON BLOCK | NO |
| HOUSING UNIT 2 | PITCHED, SHINGLE | BRICK ON BLOCK | NO |
| CAFETERIA | PITCHED, METAL | BLOCK | YES |
| CANTEEN | PITCHED, SHINGLE | BLOCK | NO |
| EDUCATION | FLAT | BLOCK | NO |
| GYM | PITCHED, METAL | METAL | NO |
| MAINTENANCE | FLAT | METAL | NO |
| POWERHOUSE | FLAT, TPO | BLOCK | YES |
| RECOVERY | PITCHED, SHINGLE | BLOCK | NO |
| RECYCLING | PITCHED, METAL | METAL | NO |
| SEGREGATION | PITCHED, METAL | BLOCK | YES |
| VISITATION | PITCHED, SHINGLE | BLOCK | NO |

CEILING LEGEND

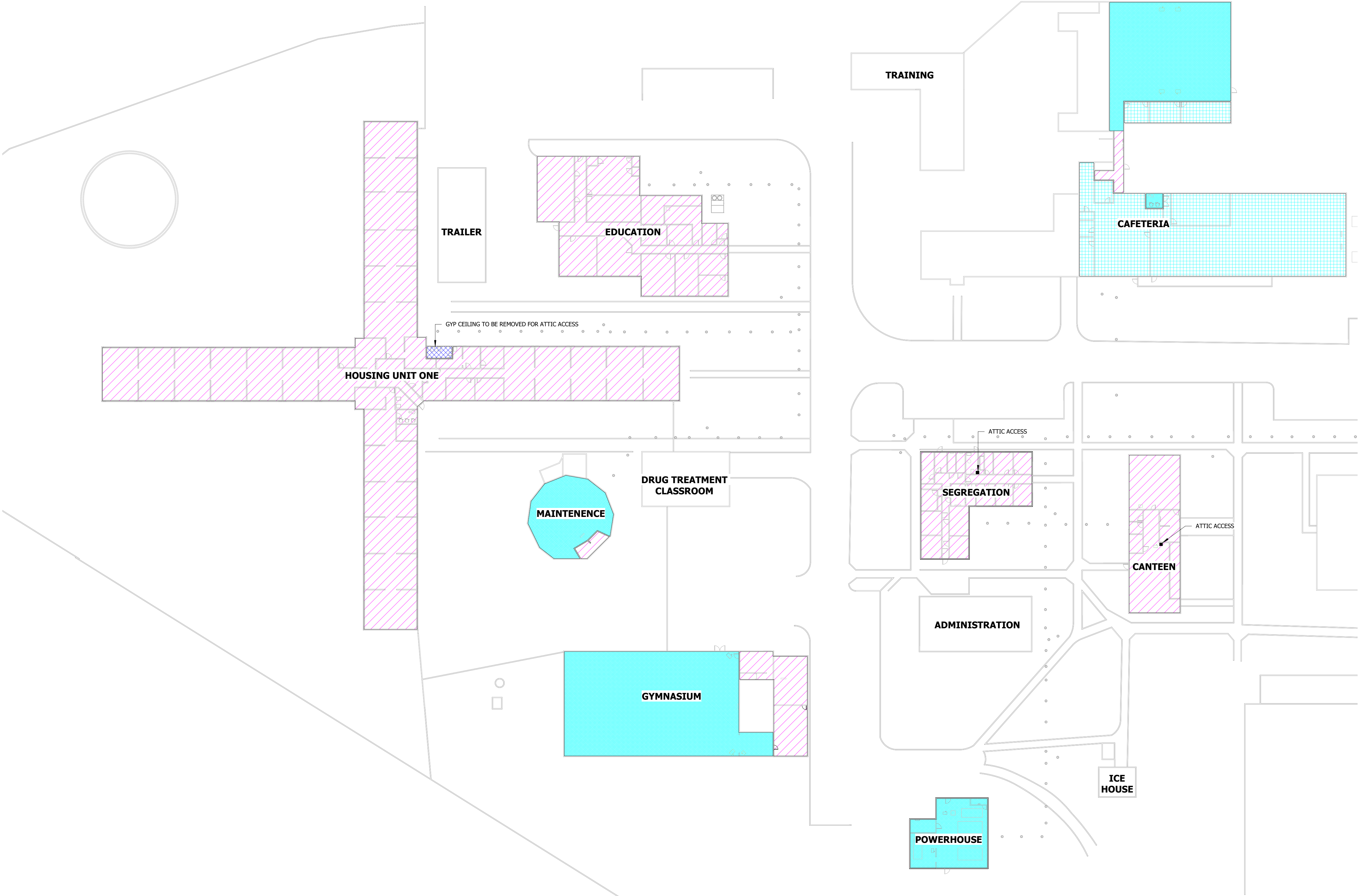
- GYPSUM OR OTHER HARD-LID CEILING
- 2X4 OR 2X2 LAY-IN CEILING
- OPEN TO STRUCTURE ABOVE

KEY PLAN

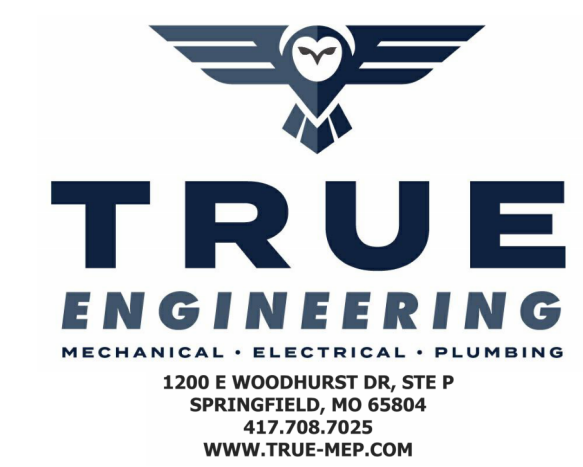


ROOF WARRANTY NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WARRANTY FOR ALL ROOFS REQUIRING NEW ROOF PENETRATIONS.
REFER TO SPECIFICATIONS FOR ROOF WARRANTY INFORMATION.



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-201600702

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION: DATE:
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DATE: DATE:
REVISION: DATE:
ISSUE DATE: 02/04/2025

CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MEP
COORDINATION
PLAN - NORTH




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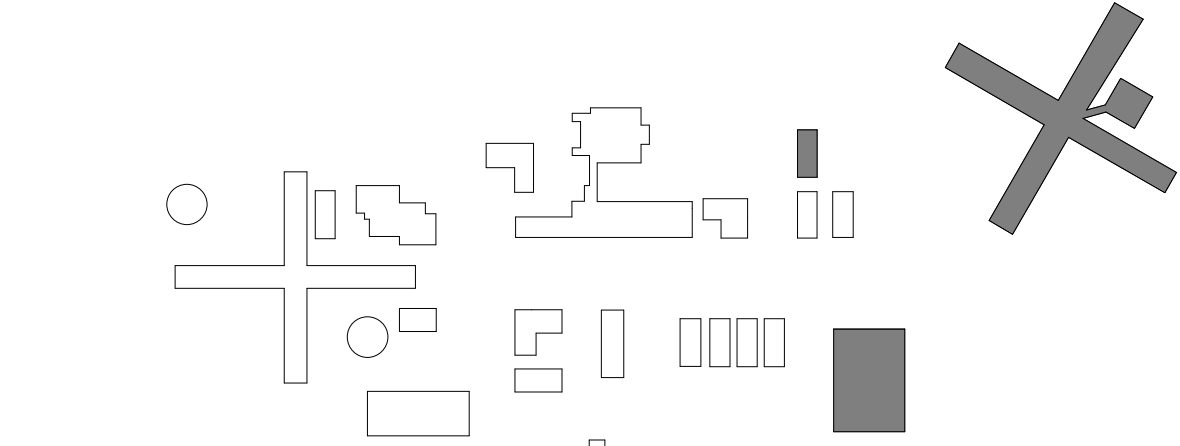
3 OF 31 SHEETS
02/04/2025

| ROOF AND WALL TYPES & ROOF WARRANTY | | | |
|-------------------------------------|------------------|----------------|---------------|
| BUILDING | ROOF | EXTERIOR WALL | ROOF WARRANTY |
| HOUSING UNIT 1 | PITCHED, SHINGLE | BRICK ON BLOCK | NO |
| HOUSING UNIT 2 | PITCHED, SHINGLE | BRICK ON BLOCK | NO |
| CAFETERIA | PITCHED, METAL | BLOCK | YES |
| CANTEEN | PITCHED, SHINGLE | BLOCK | NO |
| EDUCATION | FLAT | BLOCK | NO |
| GYM | PITCHED, METAL | METAL | NO |
| MAINTENANCE | FLAT | METAL | NO |
| POWERHOUSE | FLAT, TPO | BLOCK | YES |
| RECOVERY | PITCHED, SHINGLE | BLOCK | NO |
| RECYCLING | PITCHED, METAL | METAL | NO |
| SEGREGATION | PITCHED, METAL | BLOCK | YES |
| VISITATION | PITCHED, SHINGLE | BLOCK | NO |

CEILING LEGEND

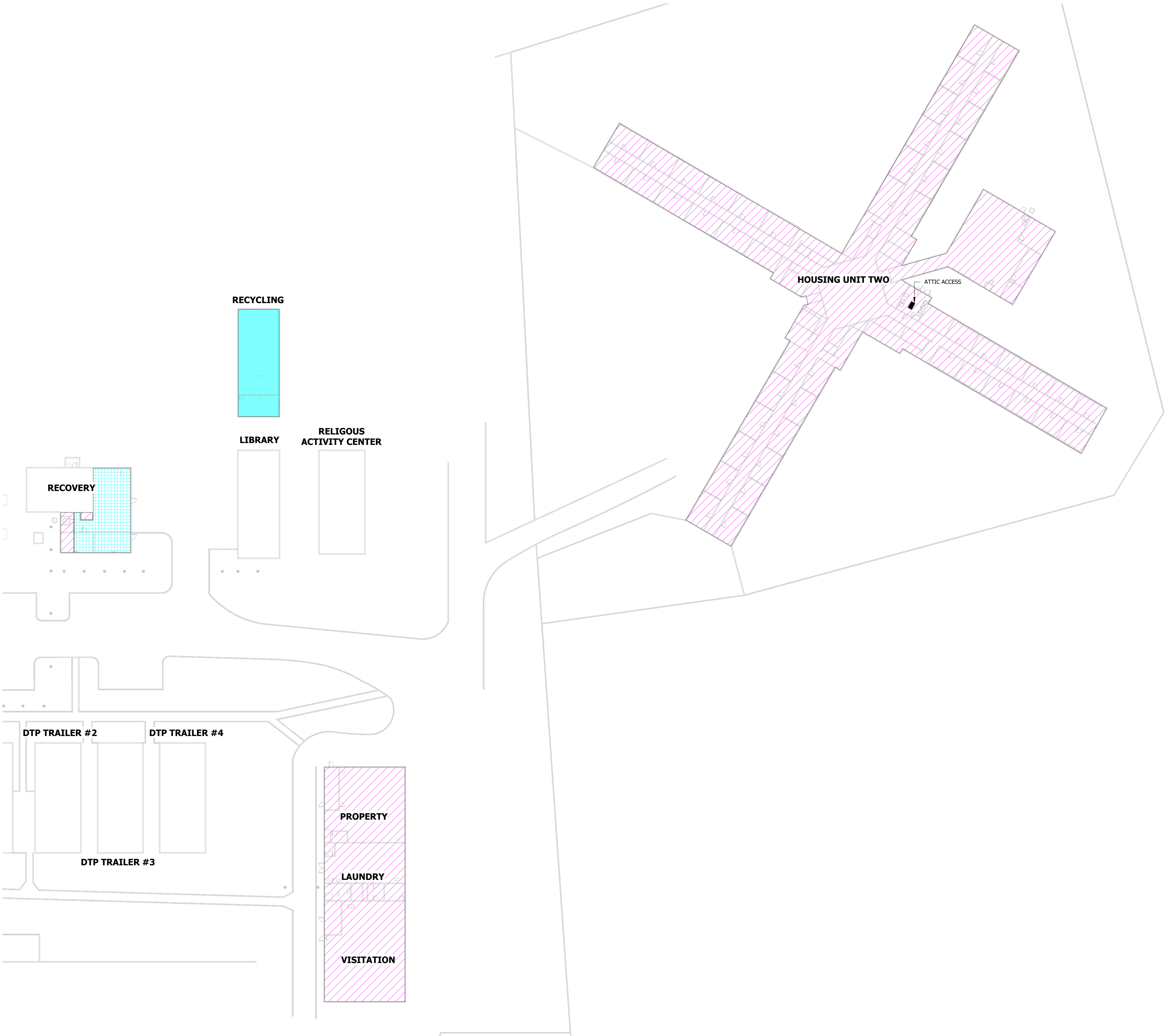
-  GYPSUM OR OTHER HARD-LID CEILING
-  2X4 OR 2X2 LAY-IN CEILING
-  OPEN TO STRUCTURE ABOVE

KEY PLAN




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REFER TO SPECIFICATIONS FOR ROOF WARRANTY INFORMATION.




STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758



02/04/2025
PROFESSIONAL SEAL



TRUE
ENGINEERING

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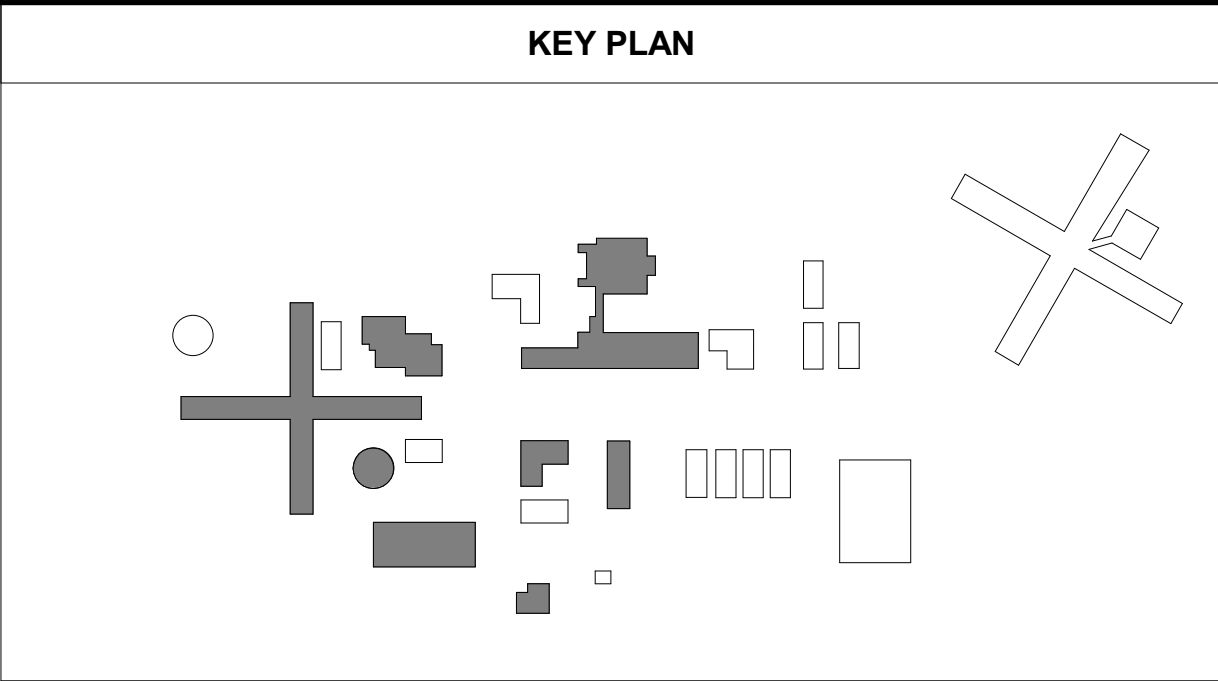
CAD DWG FILE: C2324-01
DRAWN BY: JK
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MEP
COORDINATION
PLAN - SOUTH

SHEET NUMBER:

MEP-102

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02/04/2025



| KEYNOTE LEGEND | |
|----------------|--|
| KEY VALUE | KEYNOTE TEXT |
| 23.01 | ABANDON IN PLACE EXISTING STEAM PIPING LOCATED ON STANDS. |
| 23.02 | EXISTING CONDENSATE PIPING LEAVING THE BUILDING SHALL REMAIN. ABANDON IN PLACE PIPING BELOWGROUND. |
| 23.03 | EXISTING STEAM PIPING DOWN AND UNDERGROUND SHALL REMAIN. ABANDON PIPING IN PLACE. |
| 23.04 | ABANDON IN PLACE EXISTING CONDENSATE RECEIVER PUMP. |

STATE OF MISSOURI
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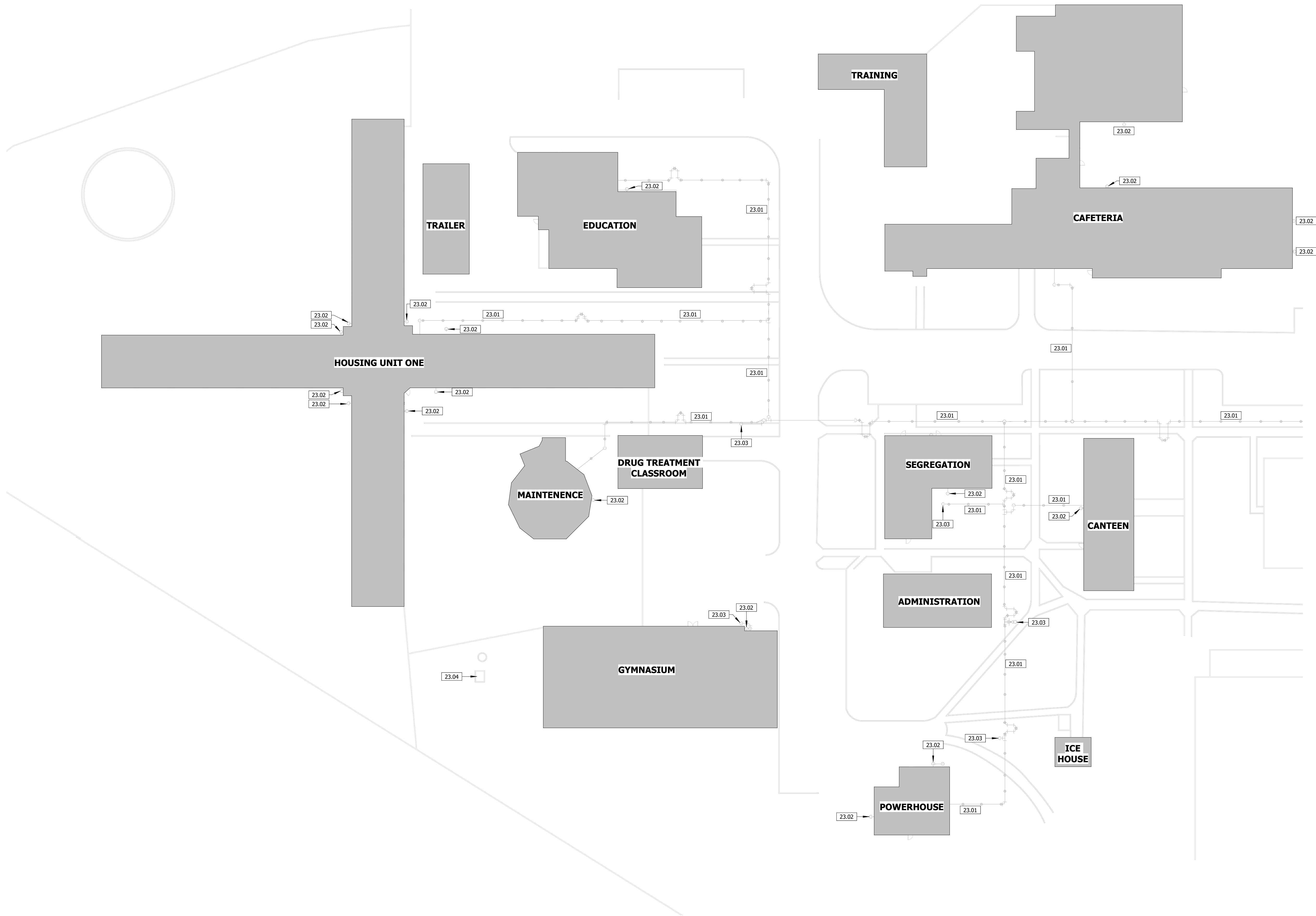
CAD DWG FILE: C2324-01
DRAWN BY: JK
CHECKED BY: JN
DESIGNED BY: JK

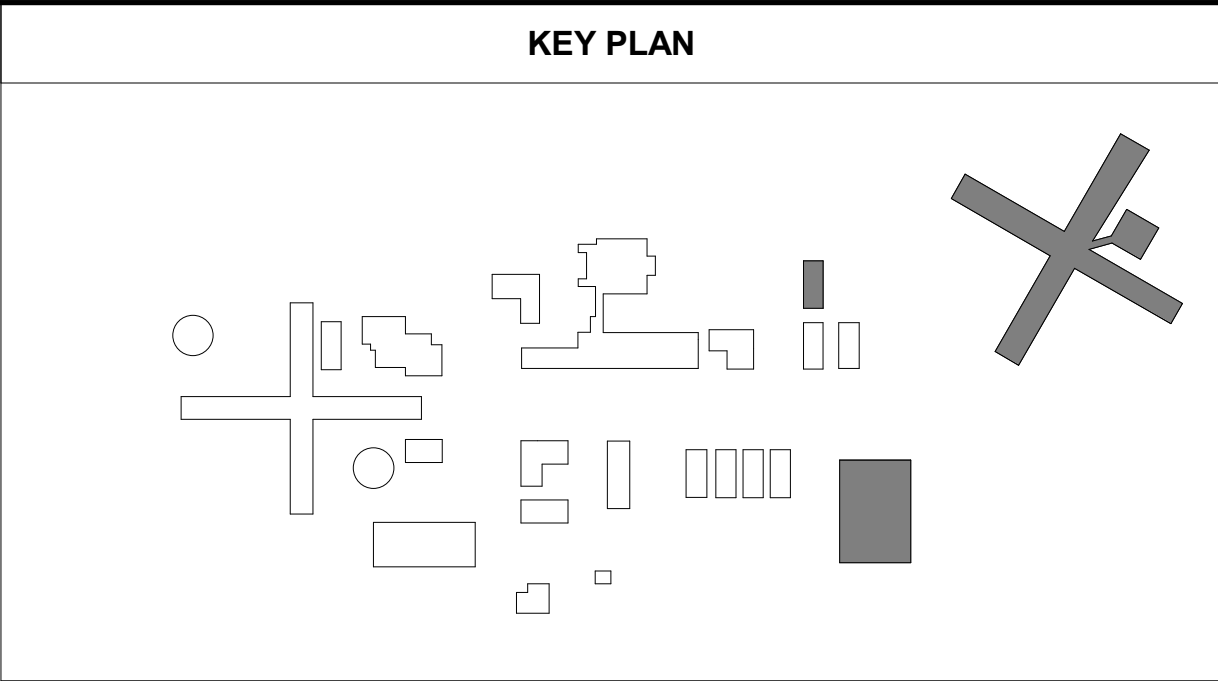
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DEMO
MECHANICAL
SITE PLAN -
NORTH

SHEET NUMBER:

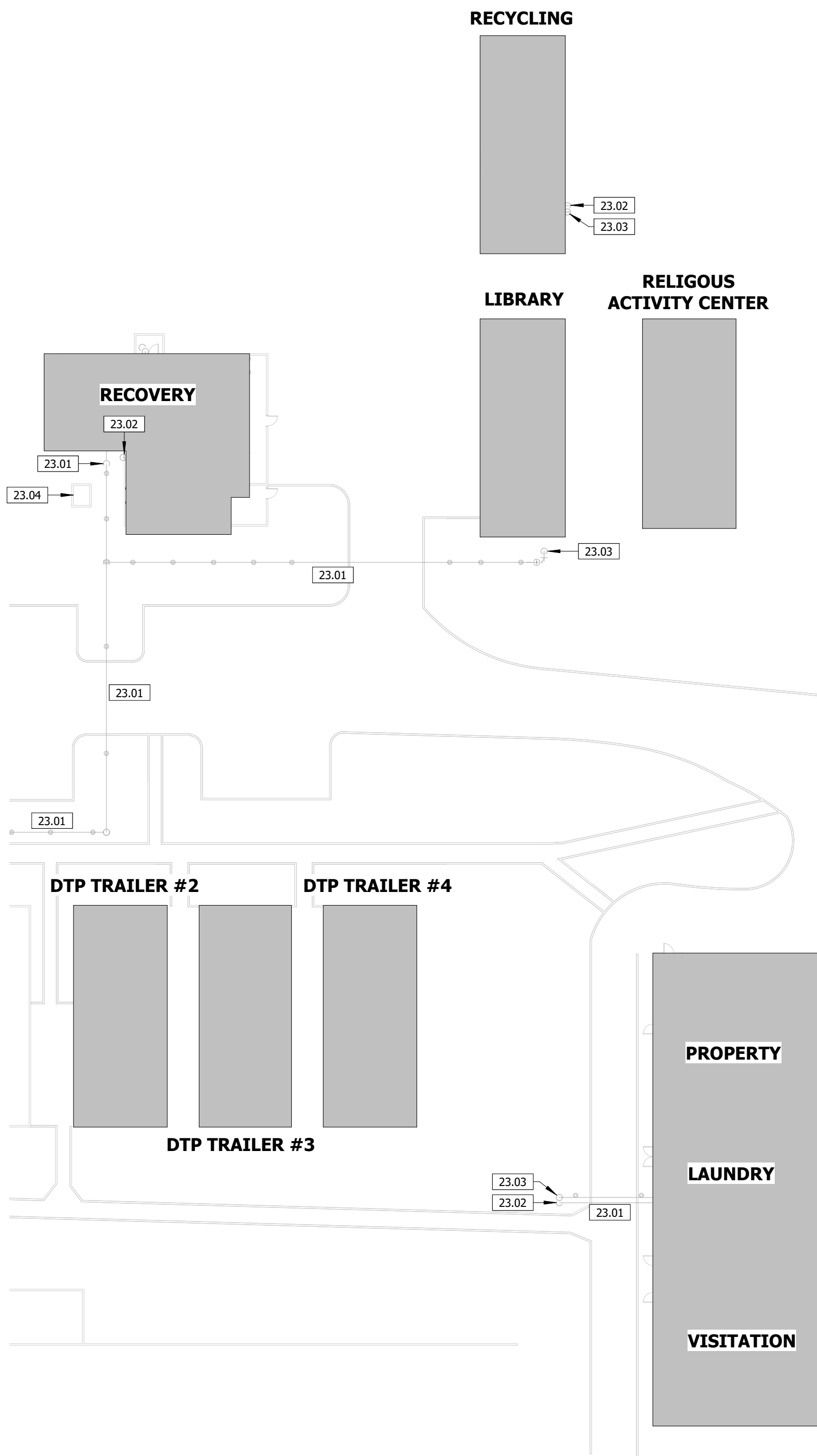
M-001

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02/04/2025

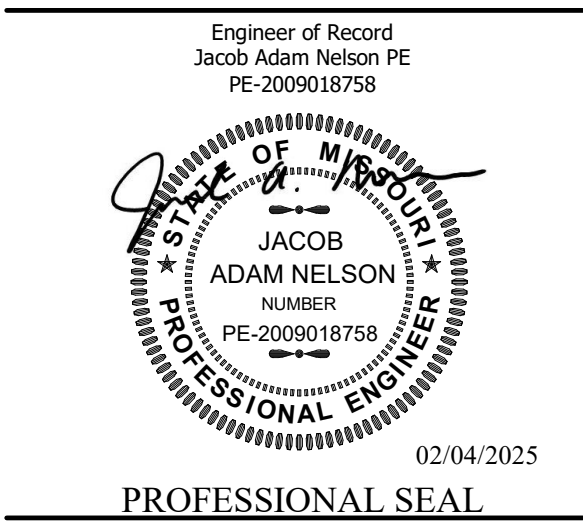




| KEYNOTE LEGEND | |
|----------------|--|
| KEY VALUE | KEYNOTE TEXT |
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| 23.03 | EXISTING STEAM PIPING DOWN AND UNDERGROUND SHALL REMAIN. ABANDON PIPING IN PLACE. |
| 23.04 | ABANDON IN PLACE EXISTING CONDENSATE RECEIVER PUMP. |



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CAD DWG FILE: C2324-01
DRAWN BY: JK
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
DEMO
MECHANICAL
SITE PLAN -
SOUTH

SHEET NUMBER:

M-002

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02/04/2025

| KEY PLAN | | KEYNOTE LEGEND | | KEYNOTE TEXT | |
|----------|--|----------------|--|--------------|---|
| | | KEY VALUE | KEYNOTE TEXT | KEY VALUE | KEYNOTE TEXT |
| | | D23.07 | REMOVE ALL EXISTING CONDENSATE PIPING SHOWN DASHED, CAP PIPING IN ATTIC AND ABANDON IN PLACE. | 23.01 | EXISTING FIRE RISER SHALL REMAIN. |
| | | D23.08 | REMOVE EXISTING CONDENSATE TRAP AND ASSOCIATED PIPING SHOWN DASHED, CAP PIPING IN ADJACENT ROOMS AND ABANDON IN PLACE. | 23.04 | ABANDON IN PLACE EXISTING CONDENSATE RECEIVER PUMP. |
| | | D23.09 | REMOVE EXISTING DOMESTIC WATER PIPING SHOWN DASHED. | 23.05 | ABANDON IN PLACE EXISTING STEAM PIPING LOCATED IN BUILDING. |
| | | D23.10 | REMOVE AND RELOCATE EXISTING WATER SOFTENER AND ASSOCIATED BRINE TANK. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. | 23.07 | ABANDON IN PLACE EXISTING CONDENSATE PIPING LOCATED IN BUILDING. |
| | | D23.11 | REMOVE EXISTING HOT WATER STORAGE TANK AND ALL ASSOCIATED PIPING AND CONTROL WIRING. | 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| | | D23.12 | REMOVE EXISTING DOMESTIC WATER PIPING DOWN TO RECIRCULATION PUMP. REMOVE PUMP AND ASSOCIATED ACCESSORIES. | 23.09 | ABANDON IN PLACE EXISTING DUCTWORK AND ASSOCIATED AIR DEVICES IN ROOMS. |
| | | D23.13 | REMOVE EXISTING HOT WATER CONNECTION TO HOT WATER STORAGE TANK. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. | 23.10 | ABANDON IN PLACE STEAM RADIATOR AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING. |
| | | D23.14 | REMOVE EXISTING COLD WATER CONNECTION TO WATER SOFTENER SYSTEM AND ASSOCIATED PIPING SHOWN DASHED. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. | 23.12 | EXISTING DOMESTIC COLD WATER PIPING SHALL REMAIN. |
| | | D23.15 | REMOVE EXISTING AIR HANDLER AND ASSOCIATED PIPING/SHEET METAL SHOWN DASHED. | 23.13 | EXISTING DOMESTIC HOT WATER PIPING SHALL REMAIN. |
| | | D23.16 | REMOVE EXISTING OUTDOOR CONDENSING UNIT AND ASSOCIATED REFRIGERANT LINES TO INDOOR AIR HANDLER. SEAL WALL PENETRATIONS WEATHER TIGHT. | 23.14 | EXISTING DUCTWORK THROUGHOUT BUILDING FROM EXISTING AIR HANDLER SHALL REMAIN. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. |
| | | | | D23.02 | REMOVE EXISTING STEAM AND CONDENSATE PIPING AS REQUIRED FOR NEW UNIT INSTALLATION. CAP STEAM/CONDENSATE PIPING IN BUILDING. |
| | | | | D23.03 | REMOVE EXISTING STEAM PIPING SHOWN DASHED, CAP EXISTING STEAM PIPING IN ATTIC AND ABANDON IN PLACE. |
| | | | | D23.04 | REMOVE EXISTING STEAM TO HOT WATER SHELL AND TUBE HEAT EXCHANGER AND ALL ASSOCIATED ACCESSORIES, STEAM, CONDENSATE, AND DOMESTIC WATER PIPING LOCATED IN MECHANICAL ROOM. |
| | | | | D23.05 | REMOVE ALL EXISTING STEAM PIPING SHOWN DASHED LOCATED IN MECHANICAL ROOM. |
| | | | | D23.06 | REMOVE EXISTING AIR HANDLER AND ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES AND ALL ASSOCIATED DUCTWORK LOCATED IN THE MECHANICAL ROOM AND ATTIC SPACE. FIELD VERIFY EXISTING SIZE AND LOCATION. |

4 DEMO MECHANICAL PLAN - MAINTENENCE
1/8" = 1'-0"

2 DEMO MECHANICAL PLAN - HU1 - ENLARGED
1/8" = 1'-0"

3 DEMO MECHANICAL PLAN - EDUCATION
1/8" = 1'-0"

1 DEMO MECHANICAL PLAN - HOUSING UNIT ONE
1/16" = 1'-0"

KEY PLAN

KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|-----------|--|
| 23.04 | ABANDON IN PLACE EXISTING CONDENSATE RECEIVER PUMP. |
| 23.06 | ABANDON IN PLACE EXISTING STEAM PIPING LOCATED IN BUILDING. |
| 23.07 | ABANDON IN PLACE EXISTING CONDENSATE PIPING LOCATED IN BUILDING. |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| 23.10 | ABANDON IN PLACE STEAM RADIATOR AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING. |
| 23.12 | EXISTING DOMESTIC COLD WATER PIPING SHALL REMAIN. |
| 23.13 | EXISTING DOMESTIC HOT WATER PIPING SHALL REMAIN. |
| 23.15 | EXISTING STEAM ROLLER AND ALL ASSOCIATED STEAM, CONDENSATE, FEED WATER, NATURAL GAS, FUEL OIL, FLUE, AND COMBUSTION AIR PIPING SHALL REMAIN AND BE ABANDONED IN PLACE. |
| 23.17 | ABANDON IN PLACE EXISTING NATURAL GAS PIPING LOCATED IN BUILDING. |
| 23.18 | EXISTING DA TANK AND ALL ASSOCIATED STEAM, CONDENSATE, FEED WATER, NATURAL GAS, FUEL OIL, FLUE, AND COMBUSTION AIR PIPING SHALL REMAIN AND BE ABANDONED IN PLACE. |
| 23.19 | EXISTING AIR DEVICE SHALL REMAIN. |
| 23.20 | EXISTING WATER SOFTENER AND BRINE TANK SHALL REMAIN. |
| 23.21 | ABANDON EXISTING DOMESTIC WATER SHELL AND TUBE HEAT EXCHANGER AND ASSOCIATED STEAM, CONDENSATE, AND DOMESTIC WATER PIPING IN PLACE. DISCONNECT HEAT EXCHANGER FROM EXISTING DOMESTIC COLD/HOT WATER AND CAP. |
| 23.22 | EXISTING 2" NATURAL GAS LINE LOCATED IN THE BUILDING SHALL REMAIN. |
| 23.23 | EXISTING 2" NATURAL GAS AND REGULATOR UP INTO BUILDING SHALL REMAIN. |
| 23.24 | EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK SHALL REMAIN. |
| 23.25 | EXISTING 1" NATURAL GAS AND REGULATOR UP INTO BUILDING SHALL REMAIN. |
| 23.26 | EXISTING 1" NATURAL GAS LINE LOCATED IN THE BUILDING SHALL REMAIN. |
| 23.27 | EXISTING WATER HEATER AND ASSOCIATED PIPING SHALL REMAIN. |
| 23.51 | EXISTING DUCTWORK AND ASSOCIATED OUTSIDE AIR CONNECTIONS SHALL REMAIN. |
| D23.01 | REMOVE EXISTING STEAM UNIT HEATER AND ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES. |
| D23.02 | REMOVE EXISTING STEAM AND CONDENSATE PIPING AS REQUIRED FOR NEW UNIT INSTALLATION. CAP STEAM/CONDENSATE PIPING IN BUILDING. |
| D23.17 | REMOVE EXISTING NATURAL GAS PIPING AND ASSOCIATED METER, BYPASS LINE, AND REGULATOR. CAP PIPING OUTSIDE OF POWERHOUSE. FIELD VERIFY EXISTING SIZES AND LOCATIONS. |
| D23.19 | REMOVE EXISTING STEAM HEATING COIL FROM AIR HANDLER. DUCTWORK AND ASSOCIATED STEAM AND CONDENSATE PIPING. PREPARE AIR HANDLER AND DUCTWORK FOR NEW HEATING EQUIPMENT. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. |
| D23.28 | REMOVE EXISTING CAP. PREPARE EXISTING NATURAL GAS PIPING FOR NEW CONNECTION. REFER TO IMPROVEMENT PLANS FOR ADDITIONAL REQUIREMENTS. |
| D23.29 | REMOVE SEGMENT OF NATURAL GAS PIPING SHOWN DASHED. PREPARE FOR NEW CONNECTION. REFER TO IMPROVEMENT PLANS FOR ADDITIONAL REQUIREMENTS. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758

02/04/2025

PROFESSIONAL SEAL

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MECHANICAL • ELECTRICAL • PLUMBING

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TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #0-2016009702

OFFICE OF
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MANAGEMENT, DESIGN
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DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

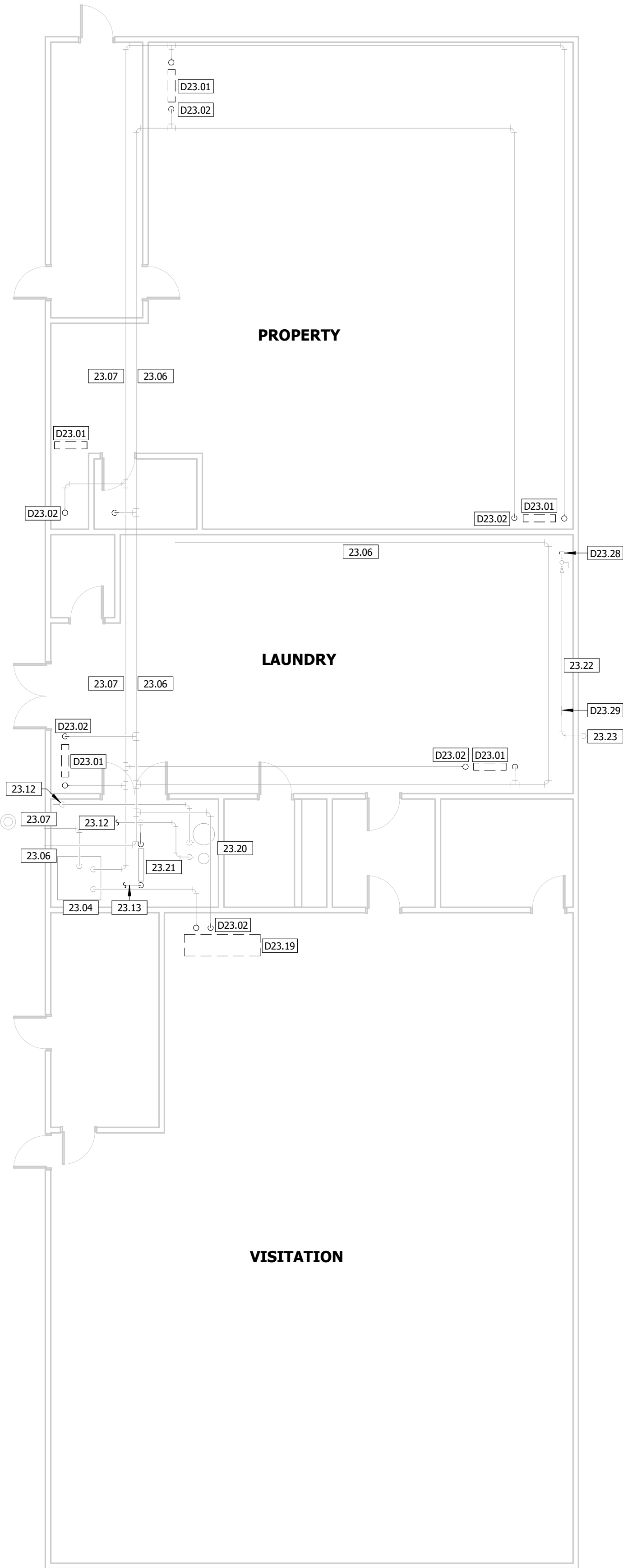
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DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
DEMO
MECHANICAL
PLAN

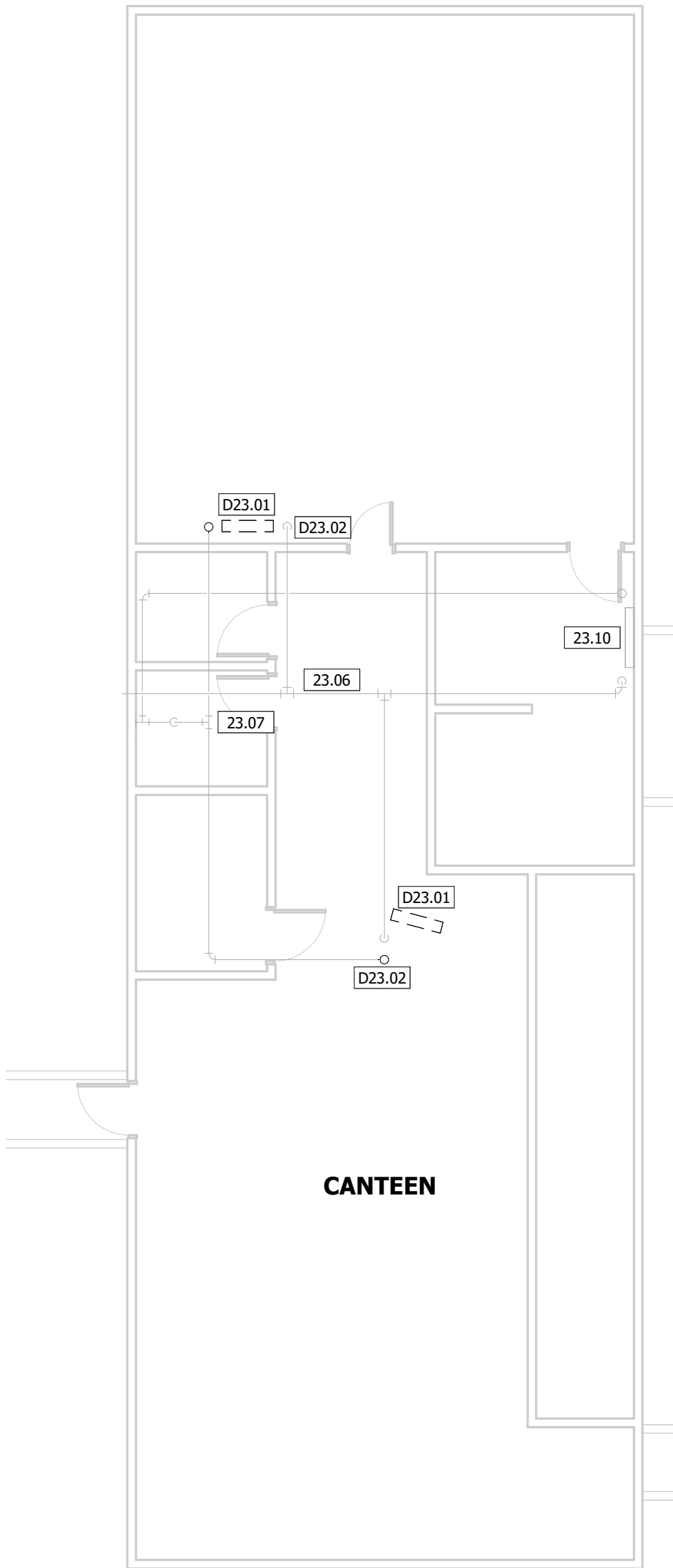
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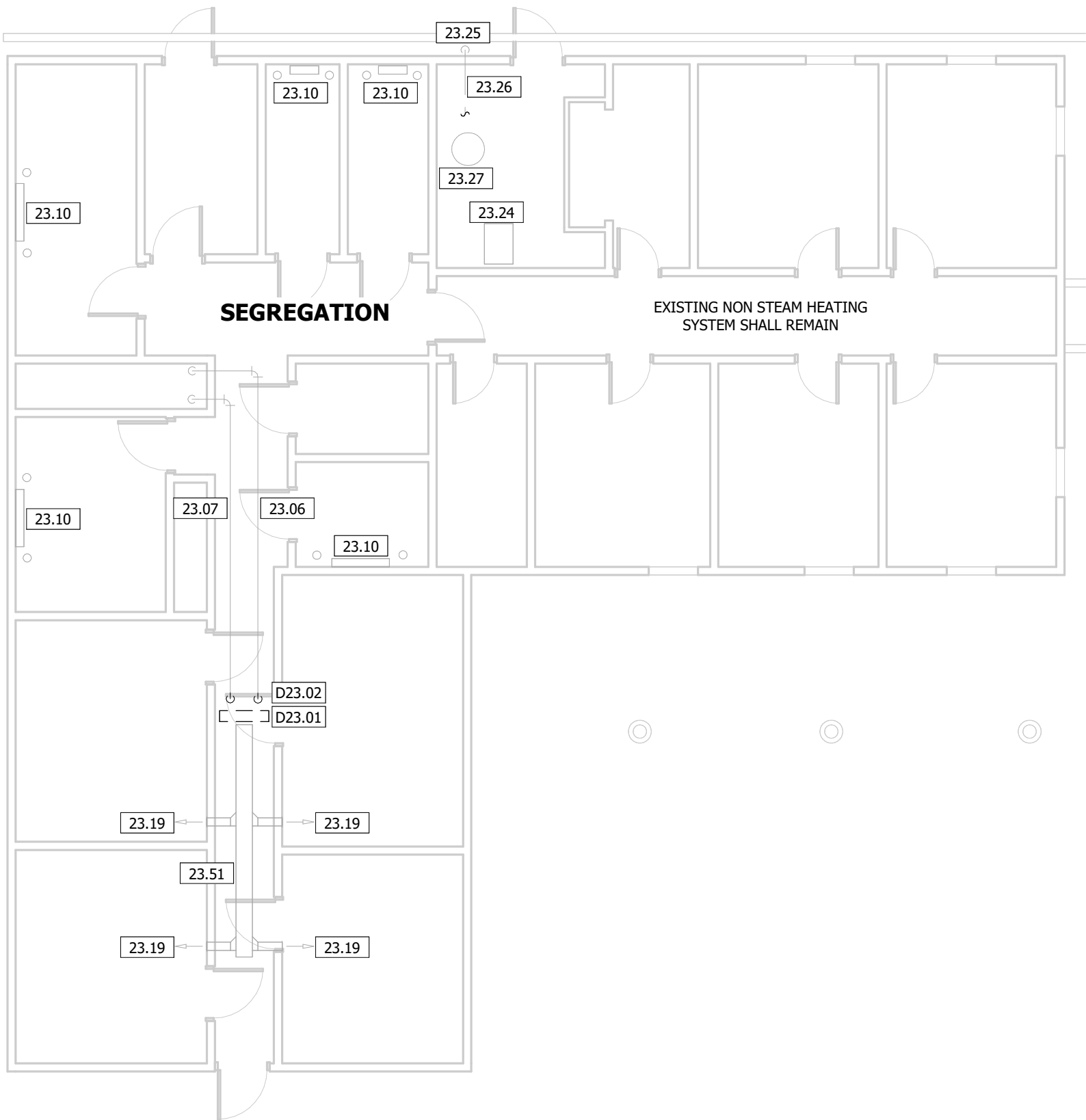
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02/04/2025



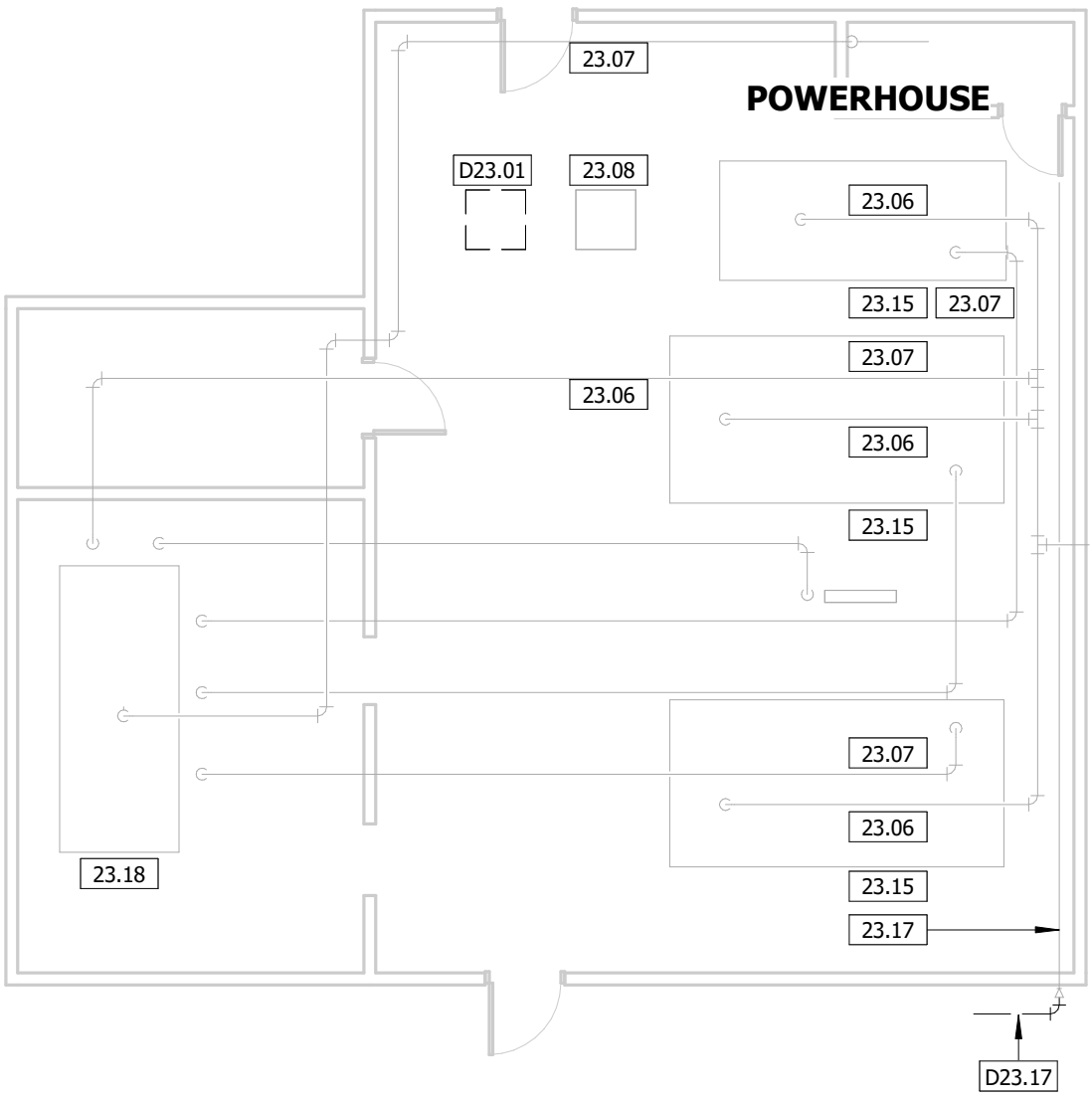
5 DEMO MECHANICAL PLAN - VISITATION
1/8" = 1'-0"



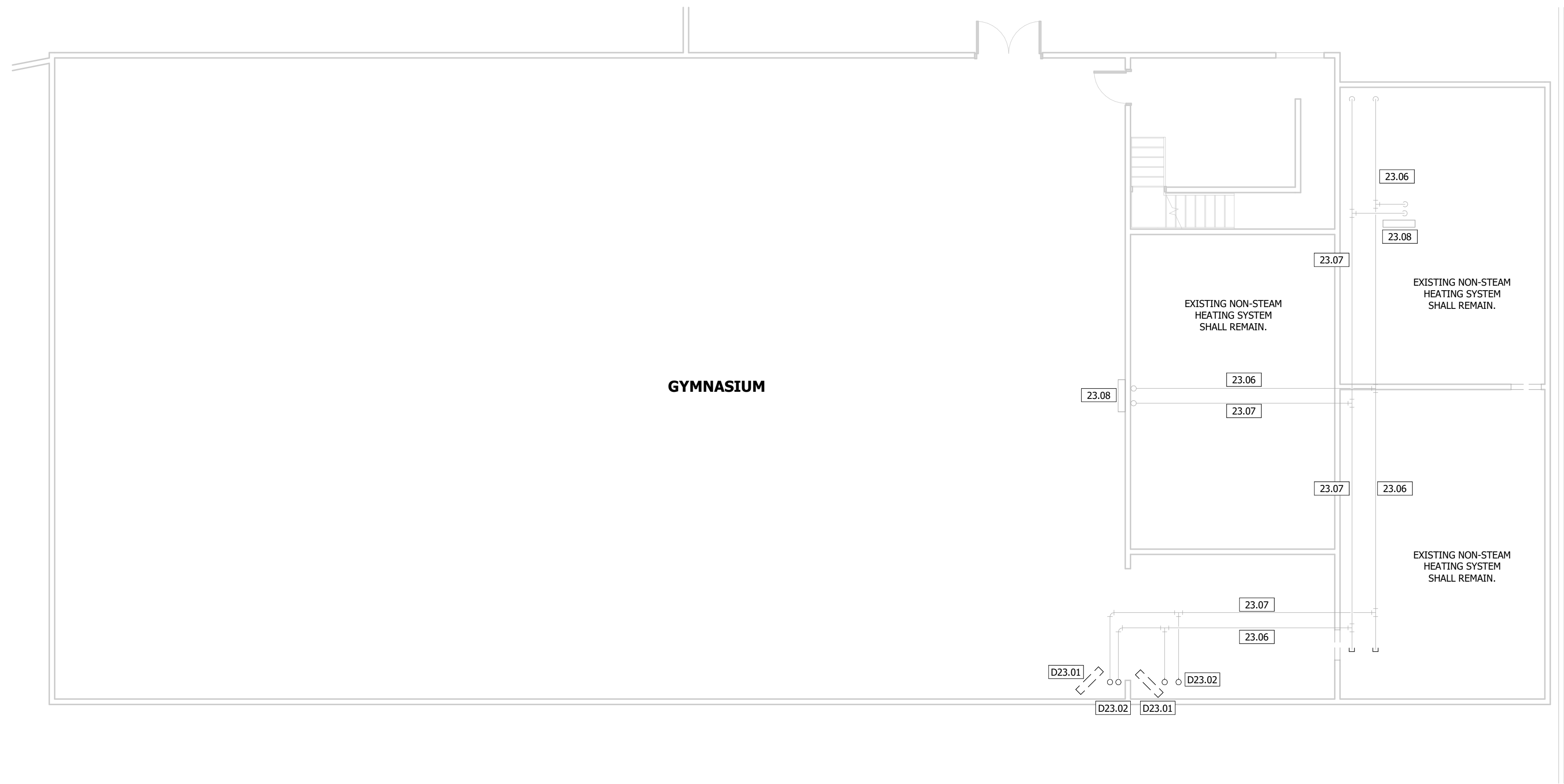
4 DEMO MECHANICAL PLAN - CANTEEN
1/8" = 1'-0"



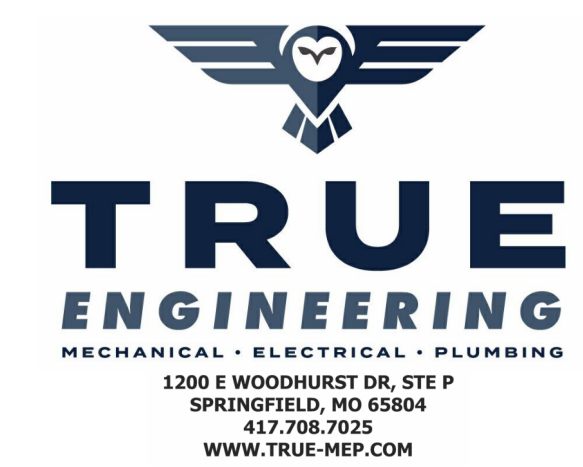
3 DEMO MECHANICAL PLAN - SEGREGATION
1/8" = 1'-0"



2 DEMO MECHANICAL PLAN - POWERHOUSE
1/8" = 1'-0"



1 DEMO MECHANICAL PLAN - GYM
1/8" = 1'-0"



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DEPARTMENT OF
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OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

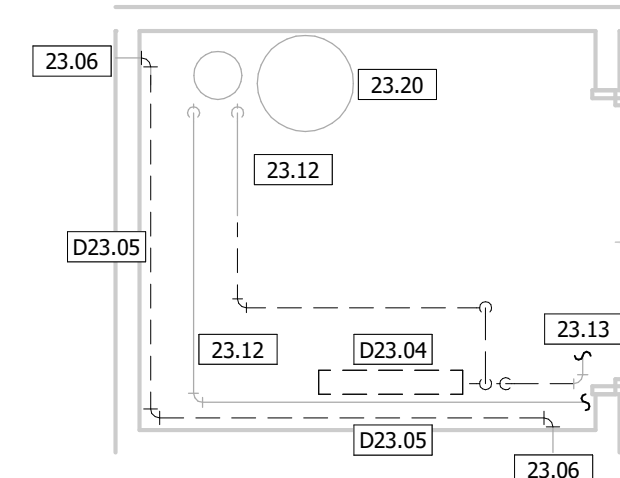
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DEMO
MECHANICAL
PLAN

SHEET NUMBER:

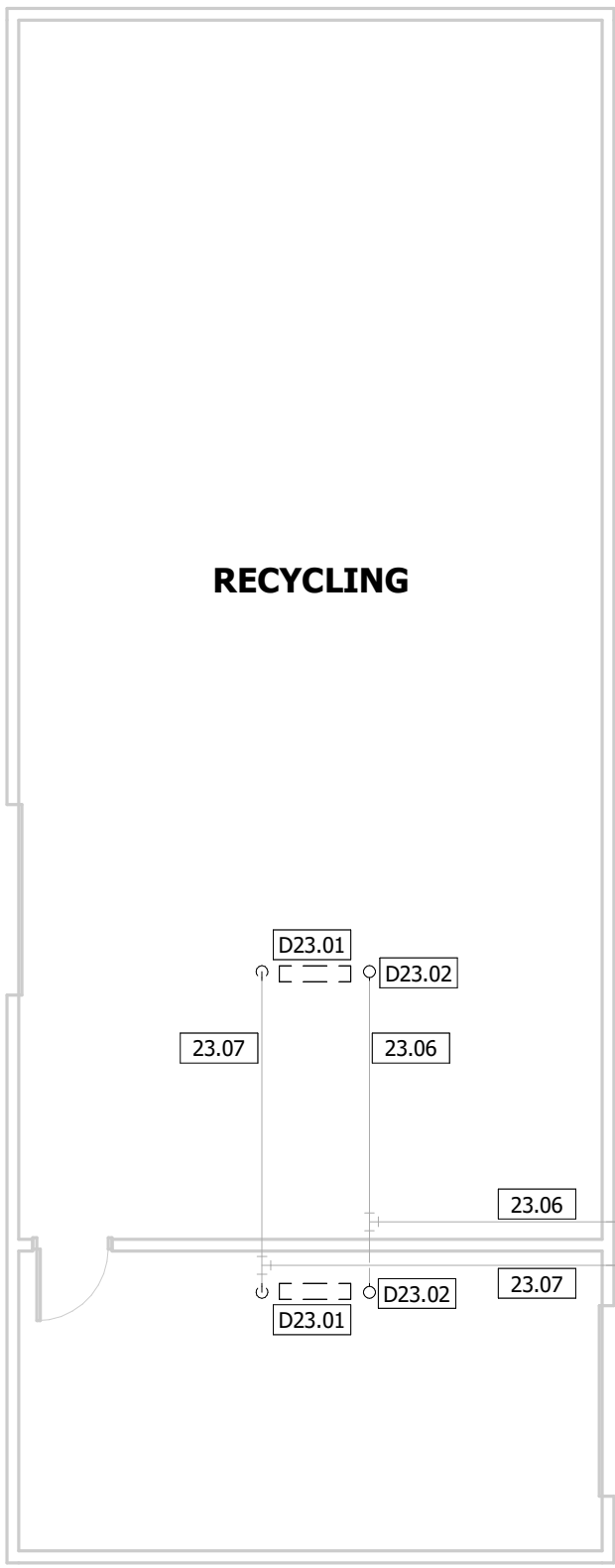
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9 OF 31 SHEETS
02/04/2025

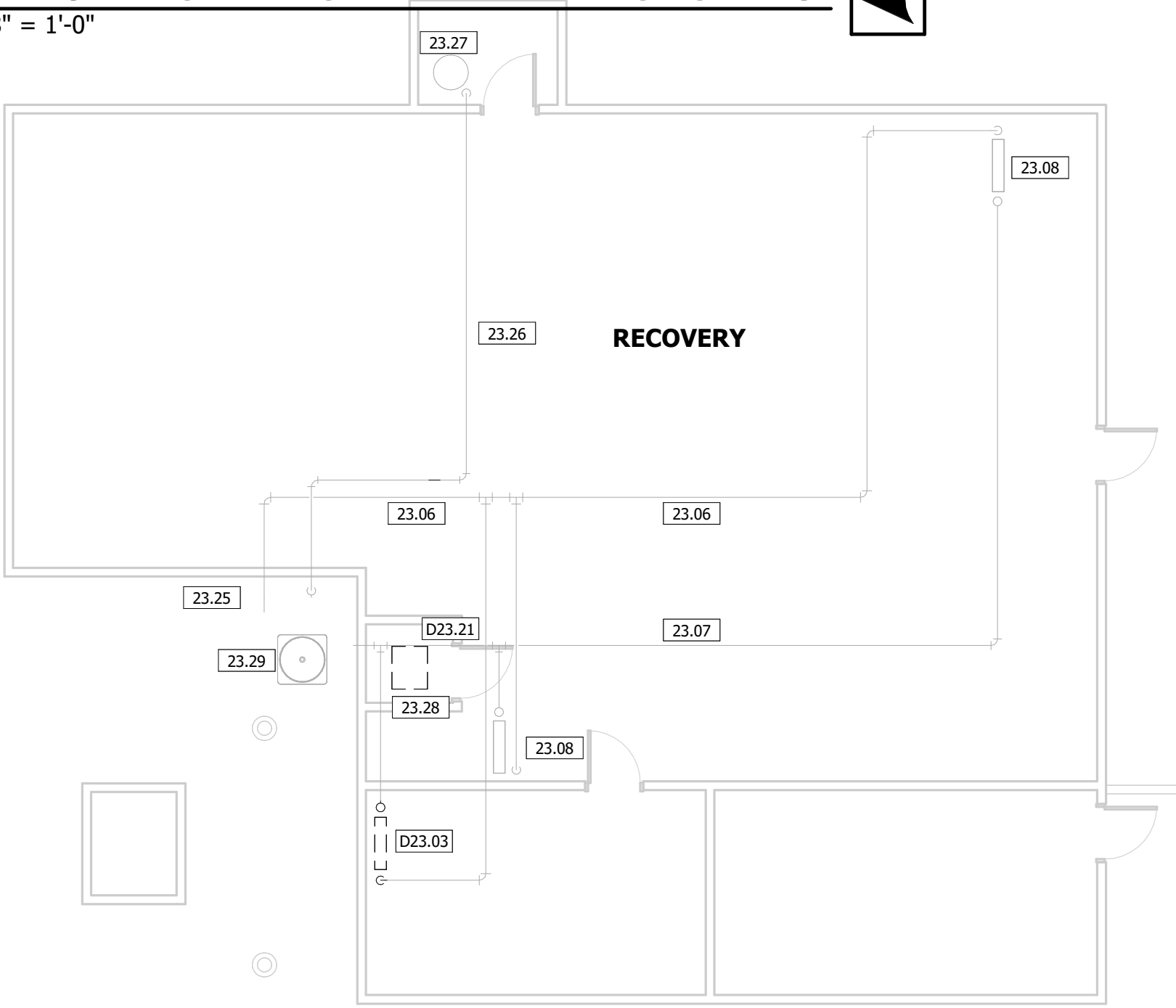
| KEY PLAN | |
|-----------|---|
| | |
| KEY VALUE | KEYNOTE TEXT |
| 23.06 | ABANDON IN PLACE EXISTING STEAM PIPING LOCATED IN BUILDING. |
| 23.07 | ABANDON IN PLACE EXISTING CONDENSATE PIPING LOCATED IN BUILDING. |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR SERVICES. |
| 23.10 | ABANDON IN PLACE STEAM RADIATOR AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING. |
| 23.12 | EXISTING DOMESTIC COLD WATER PIPING SHALL REMAIN. |
| 23.13 | EXISTING DOMESTIC HOT WATER PIPING SHALL REMAIN. |
| 23.20 | EXISTING WATER SOFTENER AND BRINE TANK SHALL REMAIN. |
| 23.24 | EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK SHALL REMAIN. |
| 23.25 | EXISTING 1" NATURAL GAS AND REGULATOR UP INTO BUILDING SHALL REMAIN. |
| 23.26 | EXISTING 1" NATURAL GAS LINE LOCATED IN THE BUILDING SHALL REMAIN. |
| 23.27 | EXISTING WATER HEATER AND ASSOCIATED PIPING SHALL REMAIN. |
| 23.28 | EXISTING AIR HANDLER COOLING COIL SHALL REMAIN. EXISTING AIR HANDLER IS A NORITONE BSRP-600K-C. FIELD VERIFY EXISTING COIL SIZE AND LOCATION. |
| 23.29 | EXISTING CONDENSING UNIT SHALL REMAIN. EXISTING UNIT IS A NORTEK 354BD-060KA MODEL. |
| 23.30 | EXISTING 2.5" NATURAL GAS AND REGULATOR UP INTO BUILDING SHALL REMAIN. |
| 23.31 | EXISTING 2.5" NATURAL GAS LINE LOCATED IN THE BUILDING SHALL REMAIN. |
| D23.01 | REMOVE EXISTING STEAM UNIT HEATER AND ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES. |
| D23.02 | REMOVE EXISTING STEAM AND CONDENSATE PIPING AS REQUIRED FOR NEW UNIT INSTALLATION. CAP STEAM/CONDENSATE PIPING IN BUILDING. |
| D23.03 | REMOVE EXISTING STEAM PIPING SHOWN DASHED. CAP EXISTING STEAM PIPING IN ATTIC AND ABANDON IN PLACE. |
| D23.04 | REMOVE EXISTING STEAM TO HOT WATER SHELL AND TUBE HEAT EXCHANGER AND ALL ASSOCIATED ACCESSORIES, STEAM, CONDENSATE, AND DOMESTIC WATER PIPING LOCATED IN MECHANICAL ROOM. |
| D23.05 | REMOVE ALL EXISTING STEAM PIPING SHOWN DASHED LOCATED IN MECHANICAL ROOM. |
| D23.21 | REMOVE EXISTING AIR HANDLER. PREPARE DUCTWORK FOR NEW INDOOR UNIT. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |



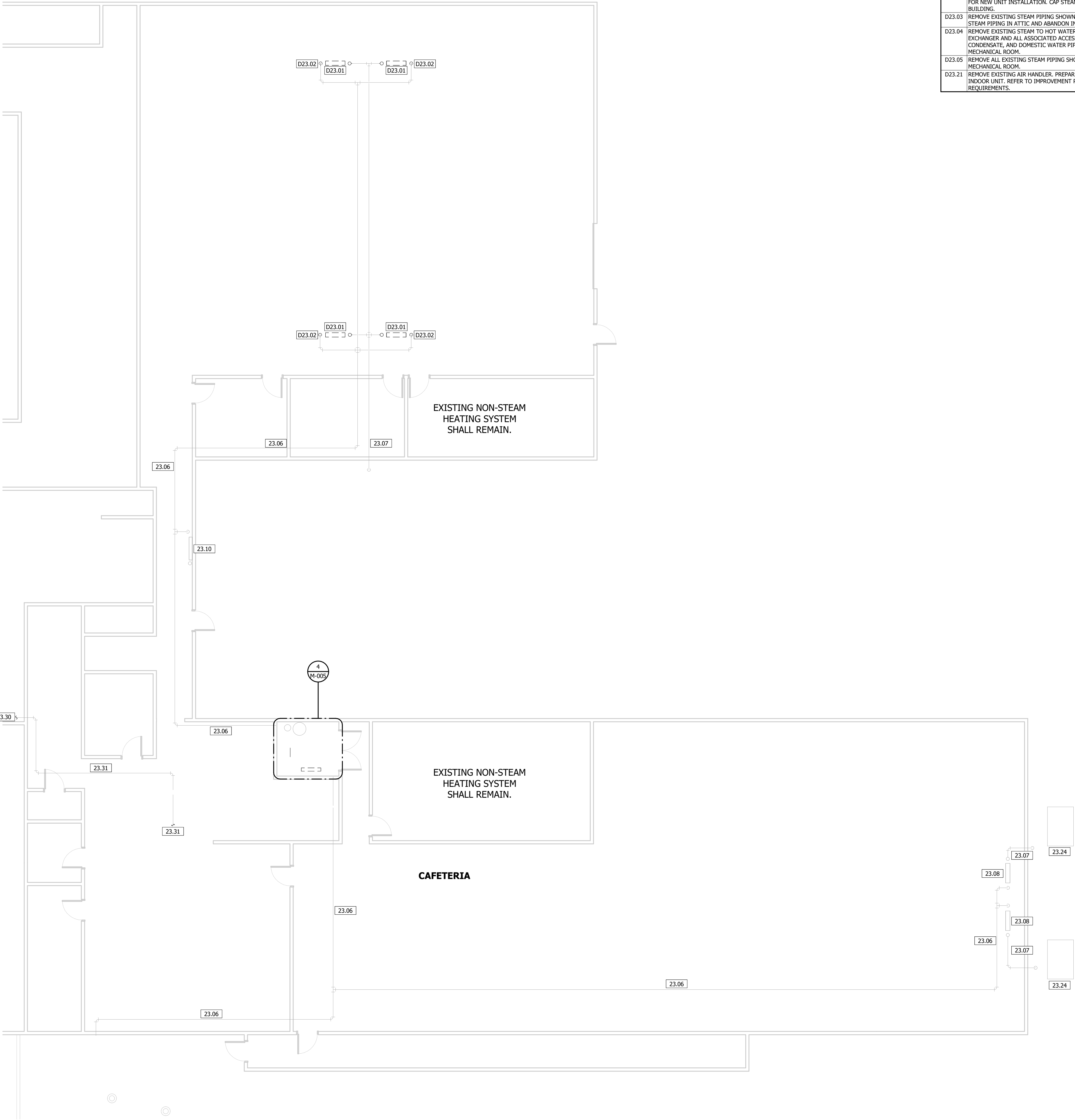
4 DEMO MECHANICAL PLAN - CAFETERIA - ENLARGED
1/4" = 1'-0"



3 DEMO MECHANICAL PLAN - RECYCLING
1/8" = 1'-0"

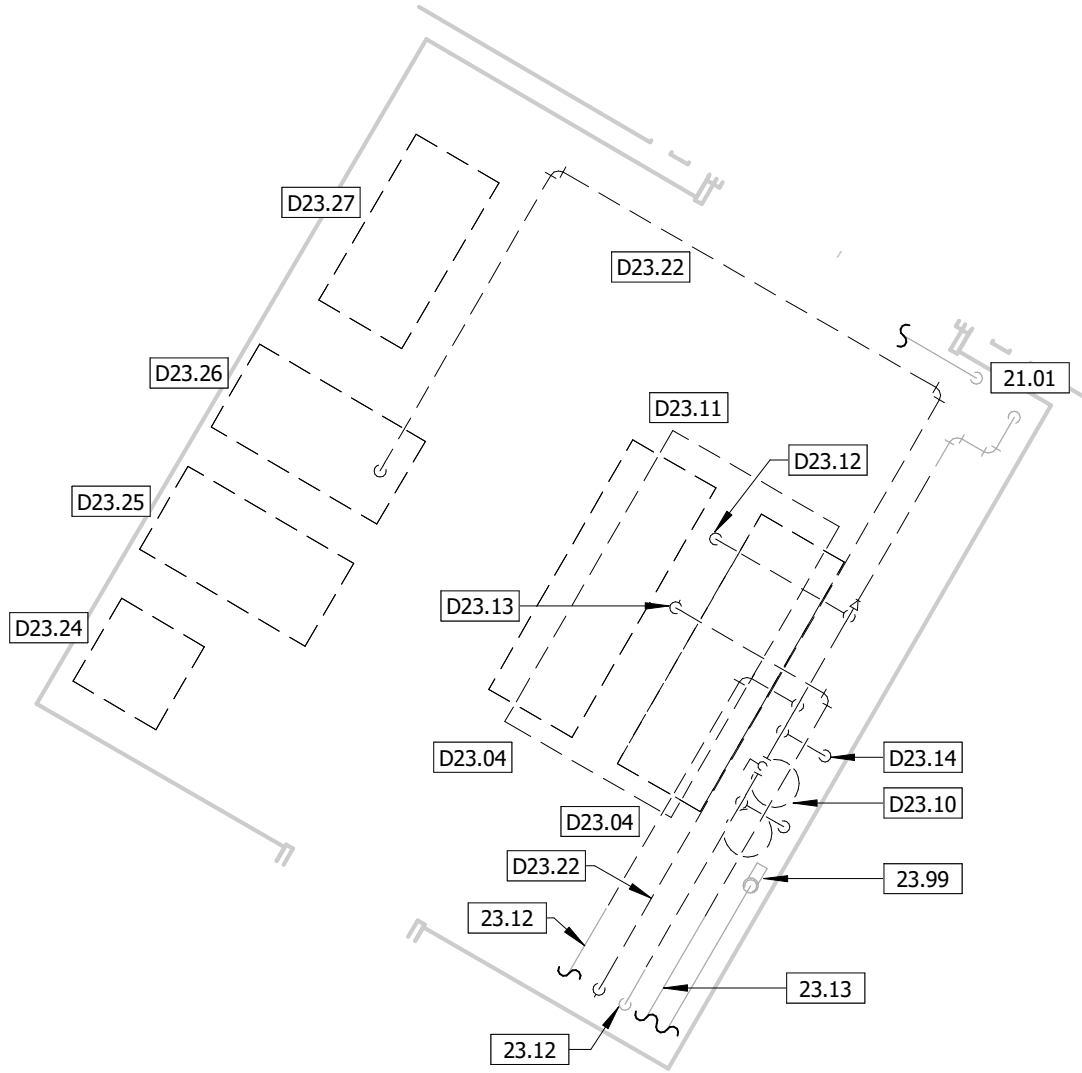
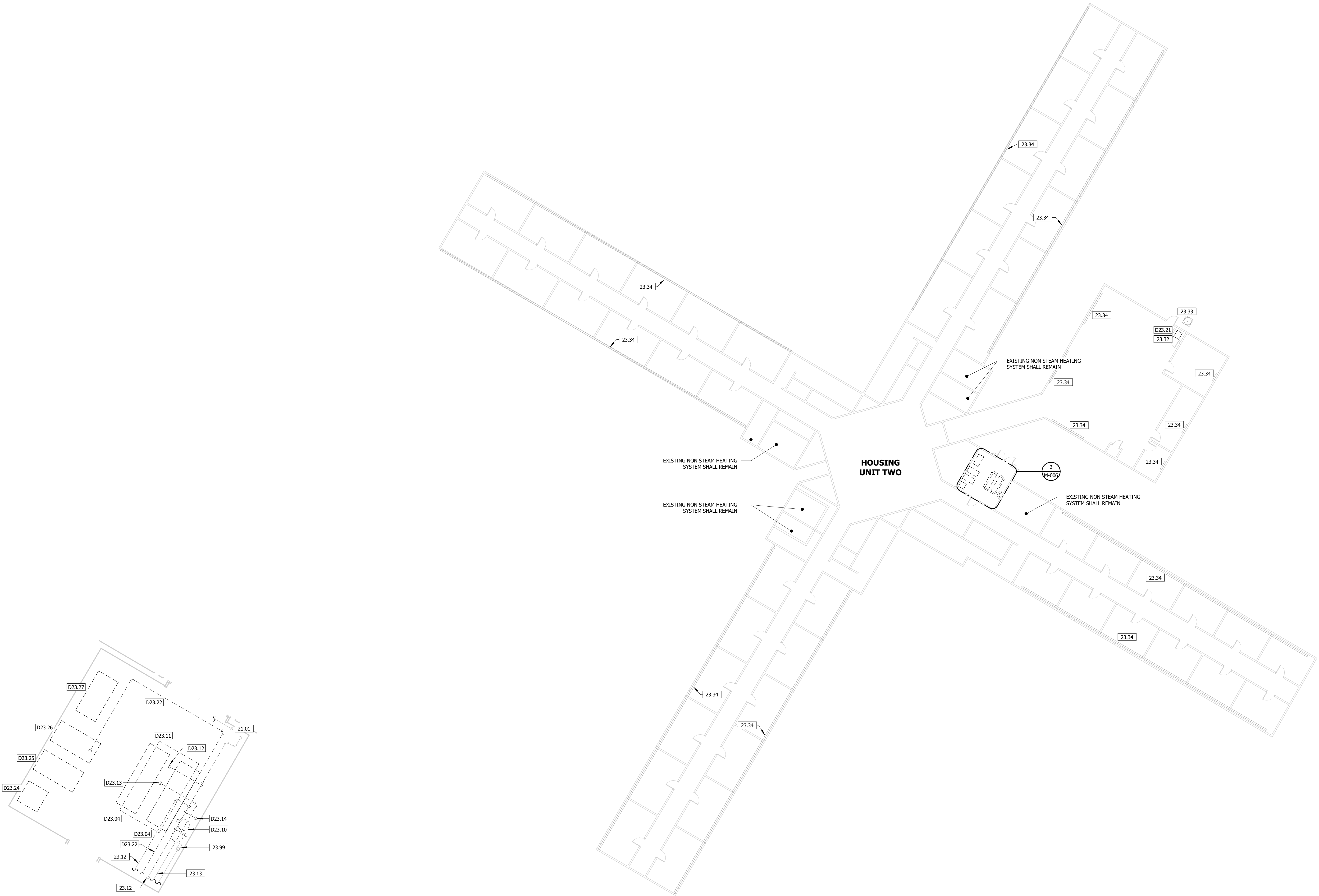


2 DEMO MECHANICAL PLAN - RECOVERY
1/8" = 1'-0"



1 DEMO MECHANICAL PLAN - CAFETERIA
1/8" = 1'-0"

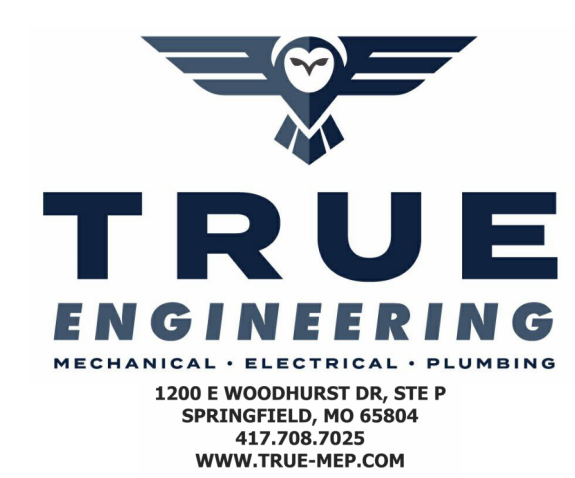
| KEY PLAN | |
|----------------|---|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 23.01 | EXISTING FIRE RISER SHALL REMAIN. |
| 23.12 | EXISTING DOMESTIC COLD WATER PIPING SHALL REMAIN. |
| 23.13 | EXISTING DOMESTIC HOT WATER PIPING SHALL REMAIN. |
| 23.32 | EXISTING AIR HANDLER COOLING COIL SHALL REMAIN. EXISTING AIR HANDLER IS A WEATHER KING MODEL WH14821STANJA. FIELD VERIFY EXISTING COIL SIZE AND LOCATION. |
| 23.33 | EXISTING CONDENSING UNIT SHALL REMAIN. EXISTING UNIT IS A WEATHER KING MODEL WP14H8AJ1NA. |
| 23.34 | ABANDON IN PLACE HYDRONIC RADIATOR AND ALL ASSOCIATED HYDRONIC HEATING PIPING. |
| 23.99 | EXISTING DOMESTIC HOT WATER RECIRCULATION PUMP SHALL REMAIN. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. |
| D23.04 | REMOVE EXISTING STEAM TO HOT WATER SHELL AND TUBE HEAT EXCHANGER AND ALL ASSOCIATED ACCESSORIES, STEAM, CONDENSATE, AND DOMESTIC WATER PIPING LOCATED IN MECHANICAL ROOM. |
| D23.10 | REMOVE AND RELOCATE EXISTING WATER SOFTENER AND ASSOCIATED BRINE TANK. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. |
| D23.11 | REMOVE EXISTING HOT WATER STORAGE TANK AND ALL ASSOCIATED PIPING AND CONTROL WIRING. |
| D23.12 | REMOVE EXISTING DOMESTIC WATER PIPING DOWN TO RECIRCULATION PUMP. REMOVE PUMP AND ASSOCIATED ACCESSORIES. |
| D23.13 | REMOVE EXISTING HOT WATER CONNECTION TO HOT WATER STORAGE TANK. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |
| D23.14 | REMOVE EXISTING COLD WATER CONNECTION TO WATER SOFTENER SYSTEM AND ASSOCIATED PIPING SHOWN DASHED. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |
| D23.31 | REMOVE EXISTING AIR HANDLER. PREPARE DUCTWORK FOR NEW INDOOR UNIT. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |
| D23.22 | REMOVE ALL STEAM PIPING SHOWN DASHED LOCATED IN MECHANICAL ROOM. CAP CONDENSATE PIPING IN ADJACENT ROOM AND ABANDON IN PLACE. |
| D23.24 | REMOVE EXISTING CONDENSATE RECEIVER PUMP AND ALL ASSOCIATED CONDENSATE PIPING/ACCESSORIES IN MECHANICAL ROOM. CAP CONDENSATE PIPING IN ADJACENT ROOM OR ATTIC SPACE. |
| D23.25 | REMOVE EXISTING HYDRONIC HEATING PUMP AND ALL ASSOCIATED HYDRONIC HEATING PIPING LOCATED IN MECHANICAL ROOM. CAP AND ABANDON HYDRONIC HEATING PIPING IS ADJACENT ROOM OR ATTIC SPACE. |
| D23.26 | REMOVE EXISTING STEAM TO HYDRONIC HEATING SHELL AND TUBE HEAT EXCHANGERS AND ALL ASSOCIATED HYDRONIC HEATING, STEAM, AND CONDENSATE PIPING LOCATED IN MECHANICAL ROOM. CAP AND ABANDON PIPING IS ADJACENT ROOM OR ATTIC SPACE. |
| D23.27 | REMOVE EXISTING AIR HANDLER AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING AND DUCTWORK LOCATED IN MECHANICAL ROOM. CAP AND ABANDON PIPING IS ADJACENT ROOM OR ATTIC SPACE. REMOVE ALL EXISTING DUCTWORK IN ATTIC SPACE DIRECTLY ABOVE MECHANICAL ROOM. |



2 DEMO MECHANICAL PLAN - HU2 - ENLARGED
1/4" = 1'-0"

1 DEMO MECHANICAL PLAN - HOUSING UNIT TWO
1/16" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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MISSOURI STATE CERTIFICATE OF AUTHORITY #L-201600702

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DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
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DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

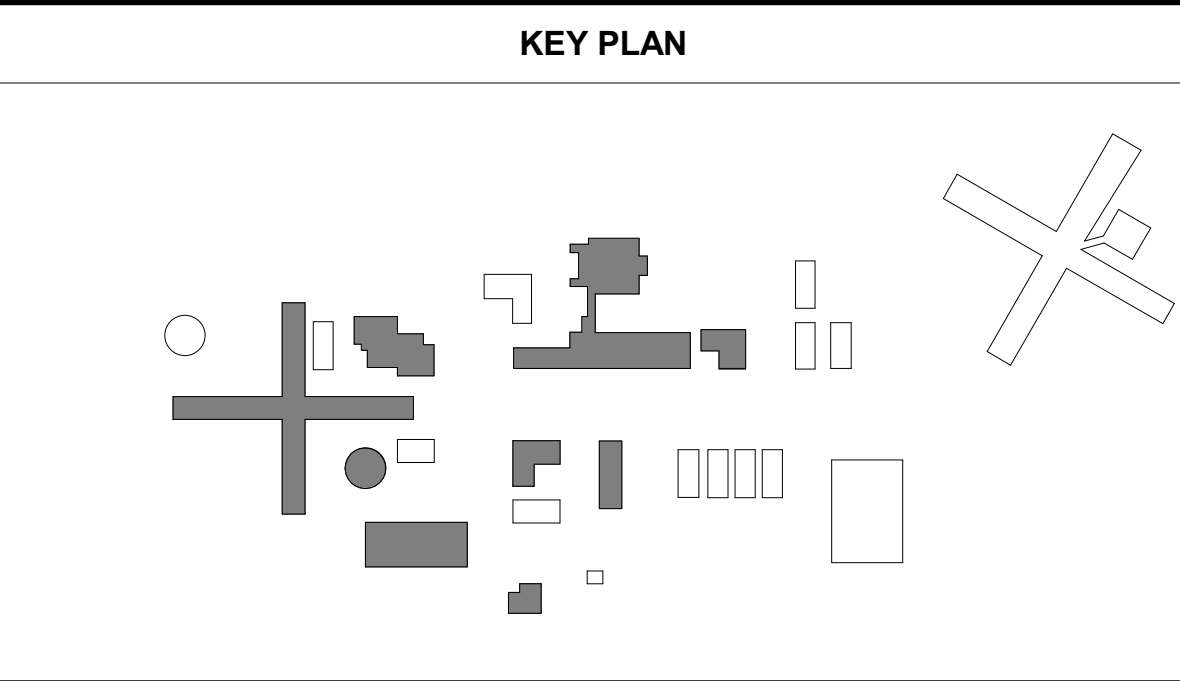
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DRAWN BY: JK
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
DEMO
MECHANICAL
PLAN

SHEET NUMBER:

M-006

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02/04/2025



KEYNOTE LEGEND

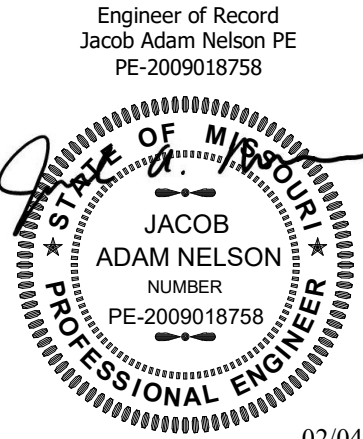
| KEY | KEYNOTE TEXT |
|--------|---|
| 23.04 | ABANDON IN PLACE EXISTING CONDENSED RECEIVER PUMP. |
| 23.05 | CONNECT NEW 2" NATURAL GAS PIPE TO EXISTING GAS MAIN. |
| 23.06 | COORDINATE WITH ALL OTHERS TO PREPARE FOR SHUT-OFF VALVE. |
| 23.69 | 0.75" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON PIPE. SEE TRENCH FOR PIPE CONTINUATION INTO BUILDING. |
| 23.64 | 0.75" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.65 | 0.75" NATURAL GAS PIPING DOWN. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.66 | 0.75" NATURAL GAS PIPING DOWN. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.67 | 0.75" NATURAL GAS PIPING DOWN. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.70 | 2.5" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON ABOVE GRADE. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.82 | 1" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON ABOVE GRADE. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.120 | 1" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASHM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON ABOVE GRADE. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |

UTILITY LOCATE NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY UNDERGROUND UTILITY SERVICES IN THE FACILITY PRIOR TO EXCAVATION.

OWNER SHALL NOT BE RESPONSIBLE FOR DAMAGES TO UTILITY SERVICES INCLUDING BUT NOT LIMITED TO: FIBER, SANITARY, ELECTRICAL, DOMESTIC WATER.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



02/04/2025

PROFESSIONAL SEAL



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TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-2016000752

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DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
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929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

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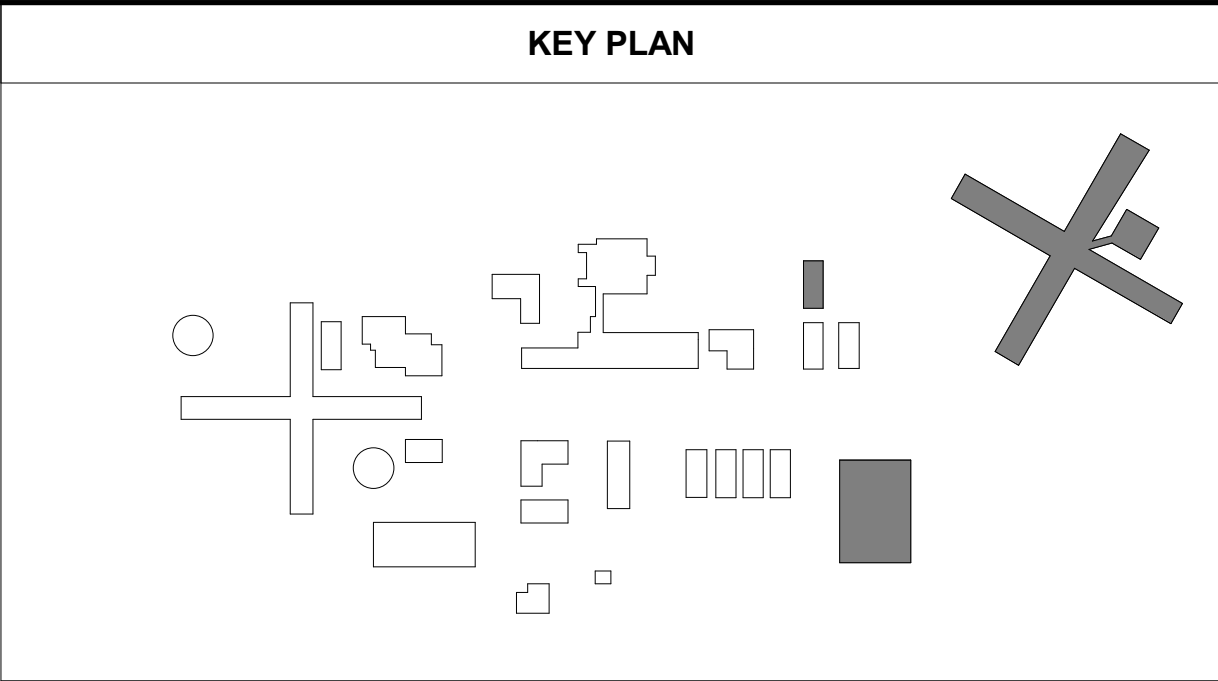
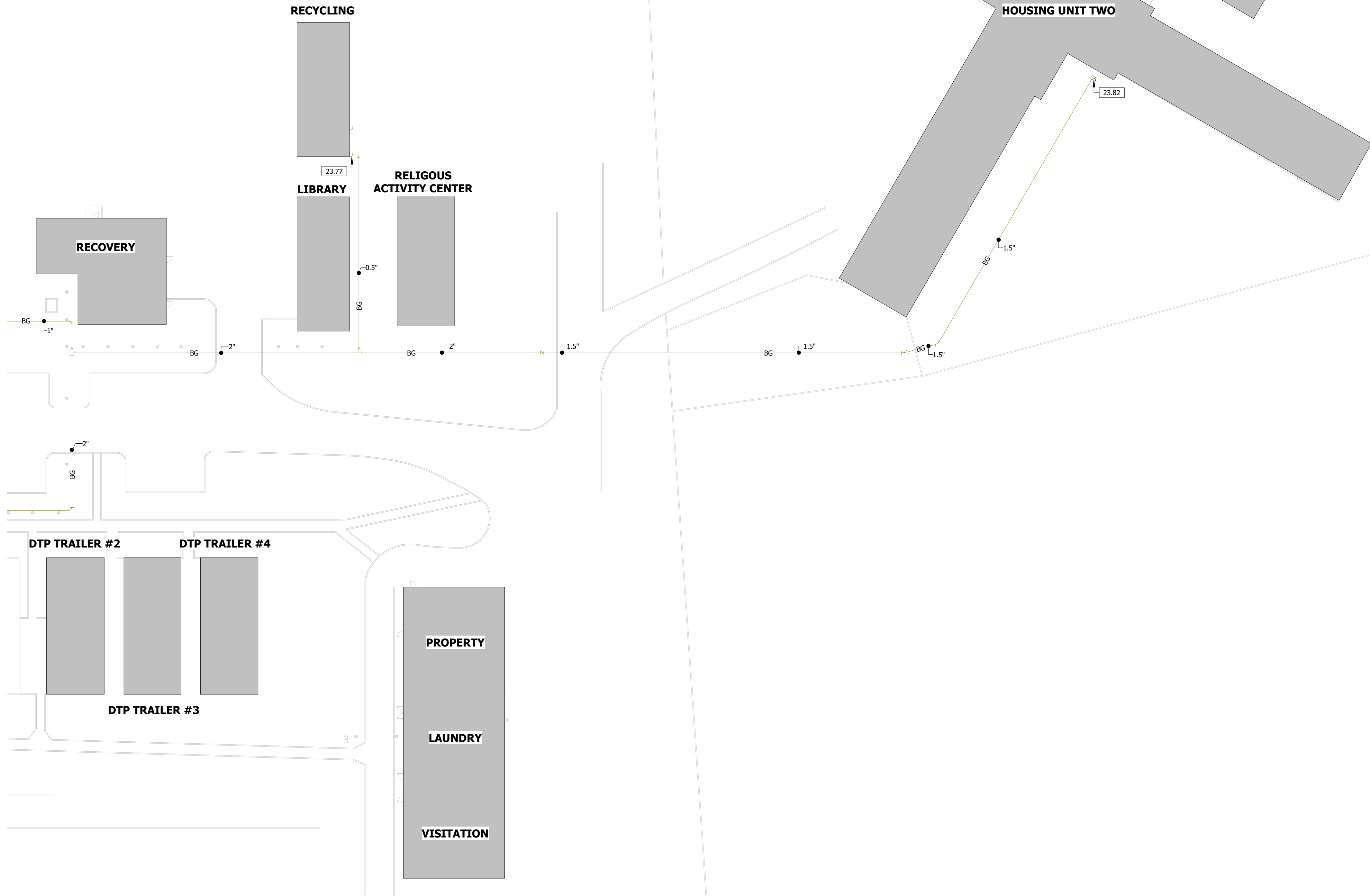
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CHECKED BY: JN
DESIGNED BY: JK

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MECHANICAL
SITE PLAN -
NORTH

SHEET NUMBER:

M-101

11 OF 31 SHEETS
02/04/2025



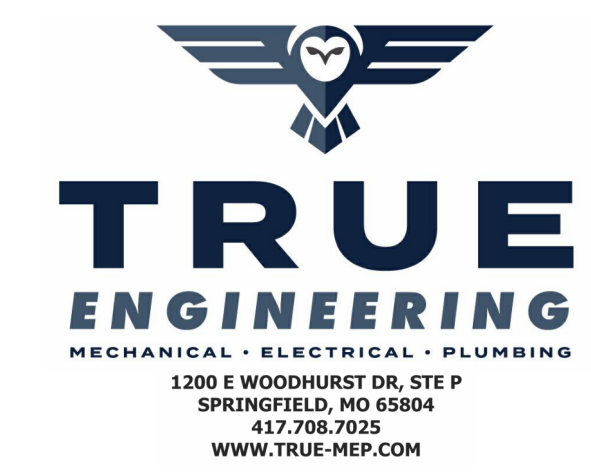
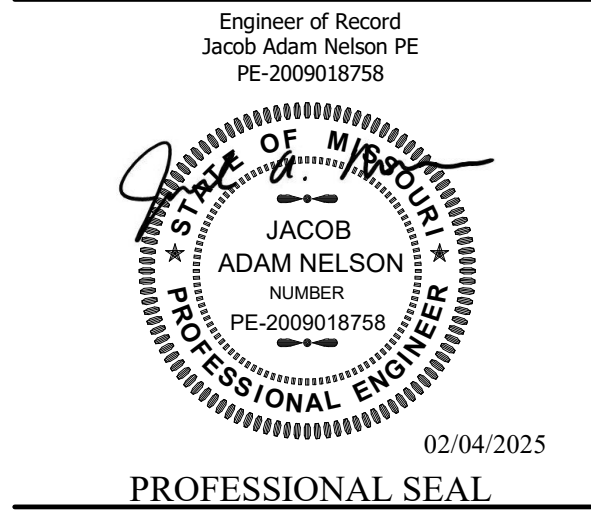
| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | KEYNOTE TEXT |
| 23.77 | 0.5" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASTM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON ABOVE GRADE. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |
| 23.82 | 1.5" NATURAL GAS PIPING UP. PROVIDE ACCESSIBLE SHUT-OFF VALVE AND ASTM RATED RISER. CHANGE PIPE MATERIAL TO BLACK IRON ABOVE GRADE. SEE ENLARGED PLAN FOR CONTINUATION INTO BUILDING. |

UTILITY LOCATE NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY UNDERGROUND UTILITY SERVICES IN THE FACILITY PRIOR TO EXCAVATION.

OWNER SHALL NOT BE RESPONSIBLE FOR DAMAGES TO UTILITY SERVICES INCLUDING BUT NOT LIMITED TO: FIBER, SANITARY, ELECTRICAL, DOMESTIC WATER.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-2016000702

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

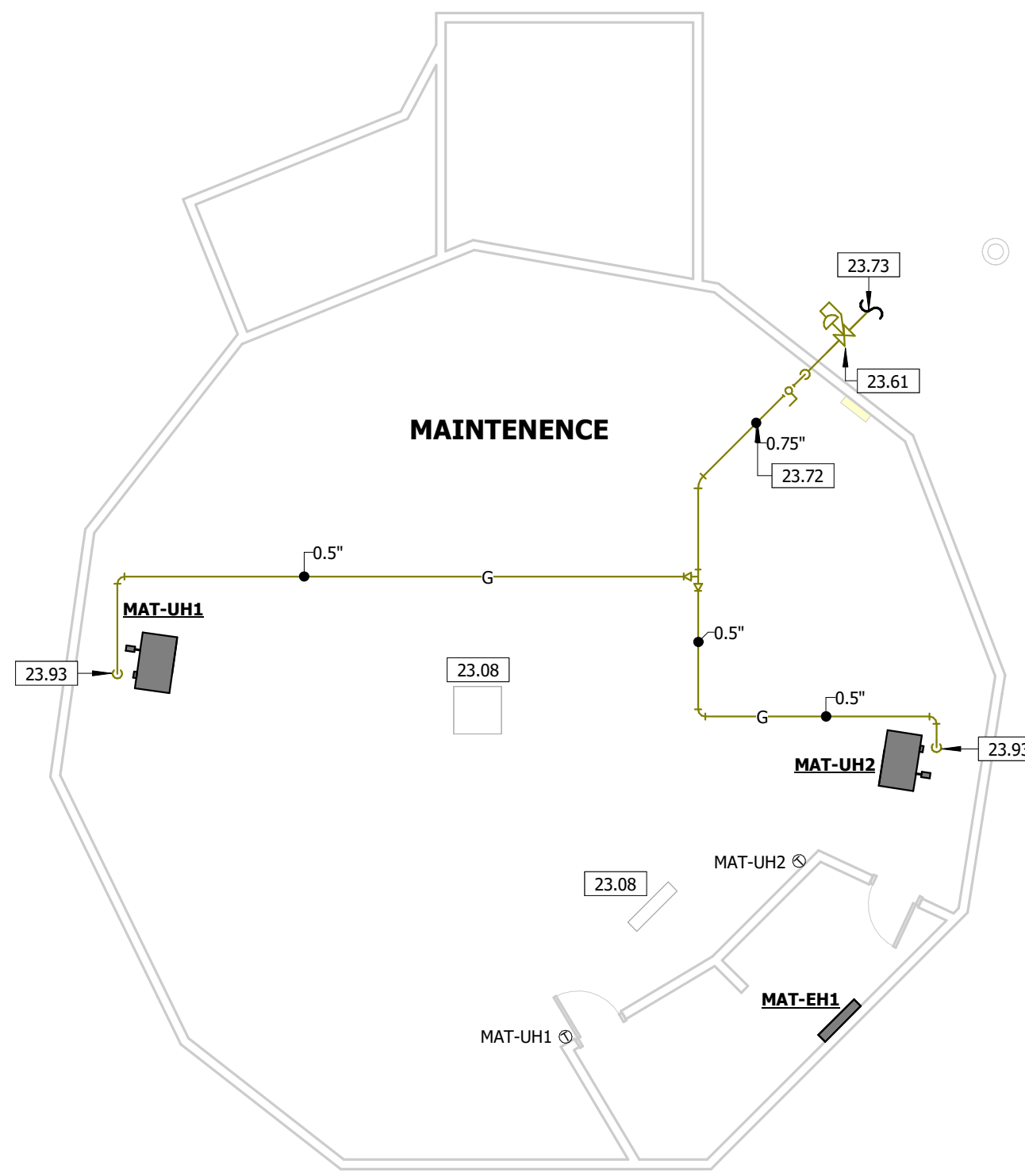
CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
SITE PLAN -
SOUTH

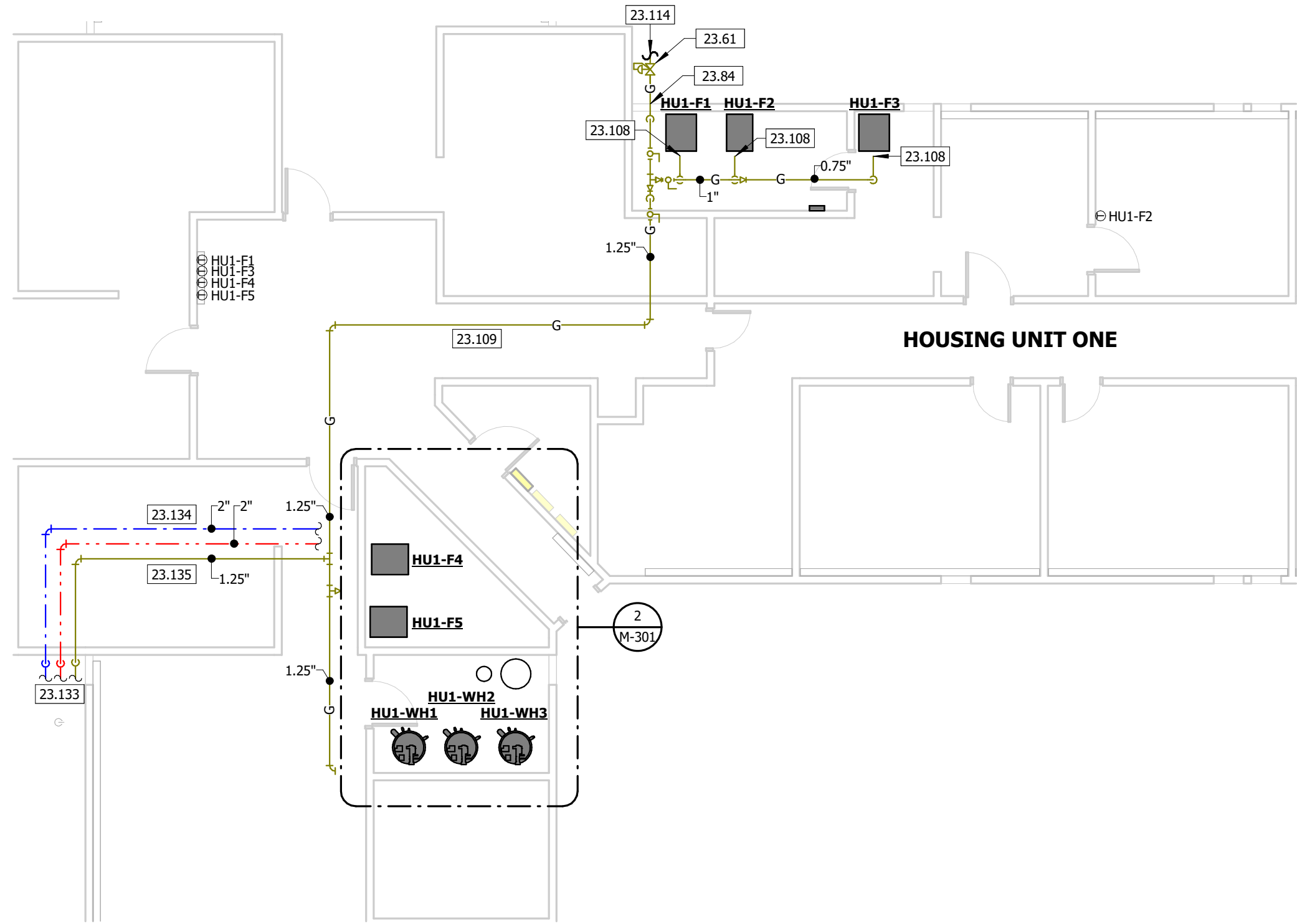
SHEET NUMBER:

M-102

12 OF 31 SHEETS
02/04/2025



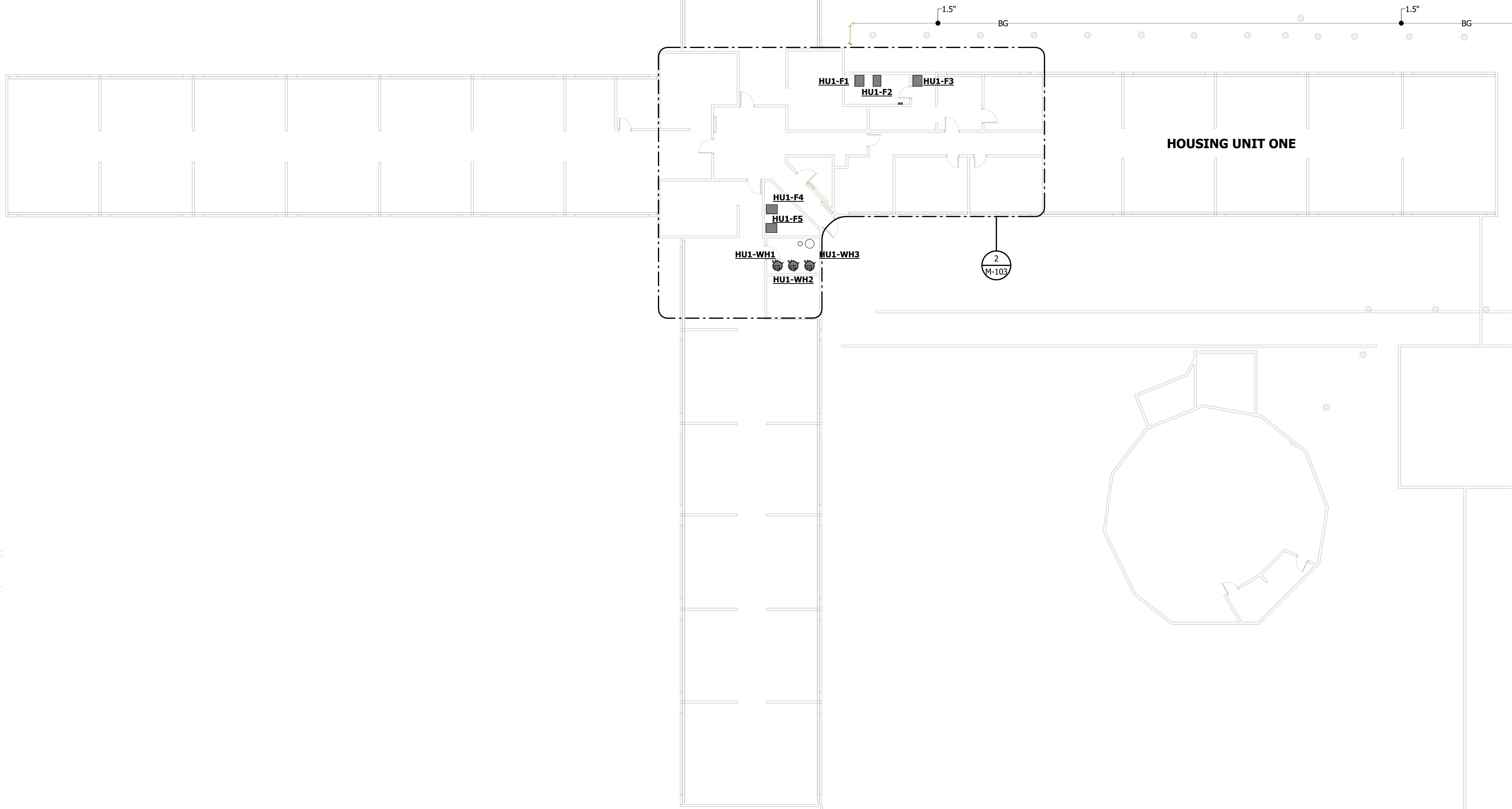
4 MECHANICAL PIPING PLAN - MAINTENANCE
1/8" = 1'-0"



2 MECHANICAL PIPING PLAN - HU1 - ENLARGED
1/8" = 1'-0"



3 MECHANICAL PIPING PLAN - EDUCATION
1/8" = 1'-0"



1 MECHANICAL PIPING PLAN - HOUSING UNIT ONE
1/16" = 1'-0"

| KEY PLAN | |
|----------------|--|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| 23.61 | PROVIDE PRESSURE REGULATING VALVE EQUIVALENT TO MAXITROL SERIES 325. SIZE PRESSURE REGULATOR FOR 5 PSI INLET AND 2" WC OUTLET. |
| 23.72 | ROUTE 0.75" NATURAL GAS PIPE THROUGH METAL SIDING. SEAL NEW PENETRATION WATER TIGHT. |
| 23.73 | 0.75" NATURAL GAS PIPING. REFER TO SITE PLAN FOR CONTINUATION. |
| 23.76 | CONNECT 1" NATURAL GAS PIPING TO GROUND MOUNTED PACKAGED MECHANICAL EQUIPMENT. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.84 | ROUTE 2" NATURAL GAS PIPING THROUGH BLOCK WALL. SEAL NEW PENETRATION WATER TIGHT. |
| 23.93 | CONNECT 0.5" NATURAL GAS PIPING TO UNIT HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.108 | CONNECT 0.75" NATURAL GAS PIPING TO NEW FURNACE. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.109 | ROUTE NEW NATURAL GAS PIPING IN ATTIC SPACE. |
| 23.113 | 1.5" NATURAL GAS PIPING. REFER TO SITE PLAN FOR CONTINUATION. |
| 23.114 | 2" NATURAL GAS PIPING. REFER TO SITE PLAN FOR CONTINUATION. |
| 23.133 | PROVIDE TEMPORARY 2" DOMESTIC COLD AND HOT WATER AND 1.25" NATURAL GAS STUB-OUTS FOR CONNECTION TO TEMPORARY DOMESTIC WATER HEATING SYSTEM. UPON INSTALLATION AND STARTUP OF NEW WATER HEATERS, TEMPORARY PIPING SHALL BE REMOVED. PATCH AND SEAL ALL PENETRATIONS LEFT BY PIPING. |
| 23.134 | CONNECT TEMPORARY 2" DOMESTIC COLD AND HOT WATER TO EXISTING DOMESTIC COLD AND HOT WATER PIPING. ROUTE PIPING THROUGH ATTIC. REMOVE TEMPORARY PIPING UPON INSTALLATION AND STARTUP OF NEW WATER HEATERS. |
| 23.135 | CONNECT TEMPORARY 1.25" NATURAL GAS PIPING TO NEW 1.25" NATURAL GAS PIPING. ROUTE PIPING THROUGH ATTIC. REMOVE TEMPORARY PIPING UPON INSTALLATION AND STARTUP OF NEW WATER HEATERS. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758

STATE OF MISSOURI
JACOB ADAM NELSON
NUMBER
PE-2009018758
PROFESSIONAL ENGINEER

02/04/2025
PROFESSIONAL SEAL

TRUE
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TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-301600702

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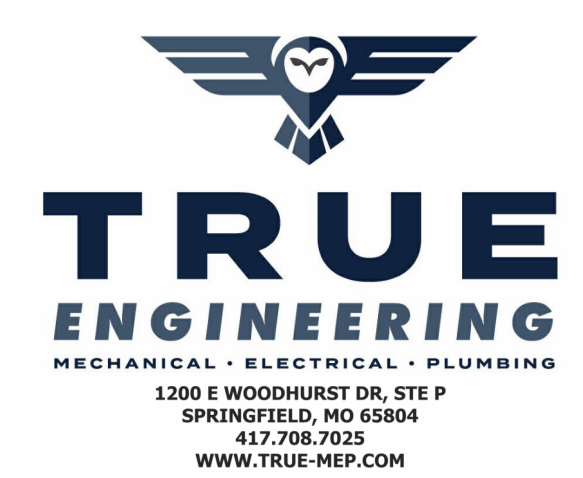
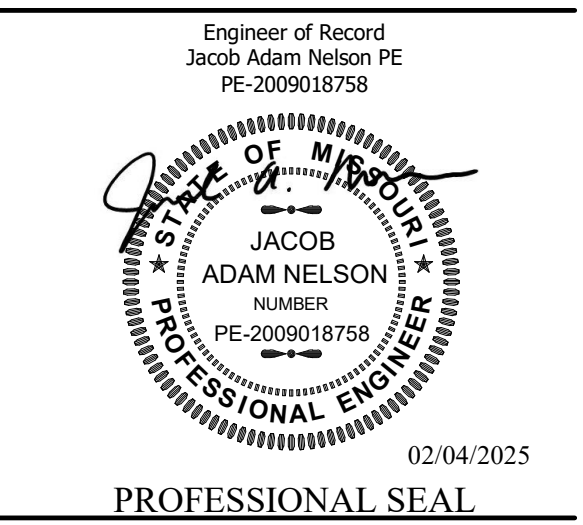
CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
PIPING PLAN

SHEET NUMBER:

| KEY PLAN | |
|----------------|--|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| 23.10 | ABANDON IN PLACE STEAM RADIATOR AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING. |
| 23.12 | EXISTING DOMESTIC COLD WATER PIPING SHALL REMAIN. |
| 23.13 | EXISTING DOMESTIC HOT WATER PIPING SHALL REMAIN. |
| 23.15 | EXISTING STEAM BOILER AND ALL ASSOCIATED STEAM, CONDENSATE, FEED WATER, NATURAL GAS, FUEL OIL, FLUE, AND COMBUSTION AIR PIPING SHALL REMAIN AND BE ABANDONED IN PLACE. |
| 23.18 | EXISTING DA TANK AND ALL ASSOCIATED STEAM, CONDENSATE, FEED WATER, NATURAL GAS, FUEL OIL, FLUE, AND COMBUSTION AIR PIPING SHALL REMAIN AND BE ABANDONED IN PLACE. |
| 23.23 | EXISTING 2" NATURAL GAS AND REGULATOR UP INTO BUILDING SHALL REMAIN. |
| 23.24 | EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK SHALL REMAIN. |
| 23.27 | EXISTING WATER HEATER AND ASSOCIATED PIPING SHALL REMAIN. |
| 23.61 | PROVIDE PRESSURE REGULATING VALVE EQUIVALENT TO HAWTHORN SERIES 325. SIZE PRESSURE REGULATOR FOR 5 PSI INLET AND 7" WC OUTLET. |
| 23.69 | 24.5" NATURAL GAS PIPING. REFER TO SITE PLAN FOR CONTINUATION. |
| 23.71 | ROUTE 0.5" NATURAL GAS PIPING THROUGH BLOCK WALL. SEAL NEW PENETRATION WATER TIGHT. |
| 23.72 | ROUTE 0.75" NATURAL GAS PIPE THROUGH METAL SIDING. SEAL NEW PENETRATION WATER TIGHT. |
| 23.73 | 0.75" NATURAL GAS PIPING. REFER TO SITE PLAN FOR CONTINUATION. |
| 23.78 | 0.5" NATURAL GAS PIPING. REFER TO SITE PLAN FOR CONTINUATION. |
| 23.93 | CONNECT 0.5" NATURAL GAS PIPING TO UNIT HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.94 | CONNECT 0.75" NATURAL GAS PIPING TO UNIT HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.100 | ROUTE 1" NATURAL GAS PIPING UP TO MEZZANINE. |
| 23.101 | 1" COLD AND HOT WATER DOWN TO WATER HEATER. |
| 23.102 | CONNECT NEW 1" COLD WATER TO EXISTING COLD WATER PIPE. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.103 | CONNECT NEW 1" HOT WATER TO EXISTING HOT WATER PIPE. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.108 | CONNECT 0.75" NATURAL GAS PIPING TO NEW FURNACE. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.110 | CONNECT 0.75" NATURAL GAS PIPING TO UNIT HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.111 | CONNECT NEW 0.75" NATURAL GAS PIPING TO EXISTING 2" PIPING. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.129 | EXISTING NATURAL GAS SERVICE SHALL REMAIN. |

STATE OF MISSOURI
MIKE KEHOE,
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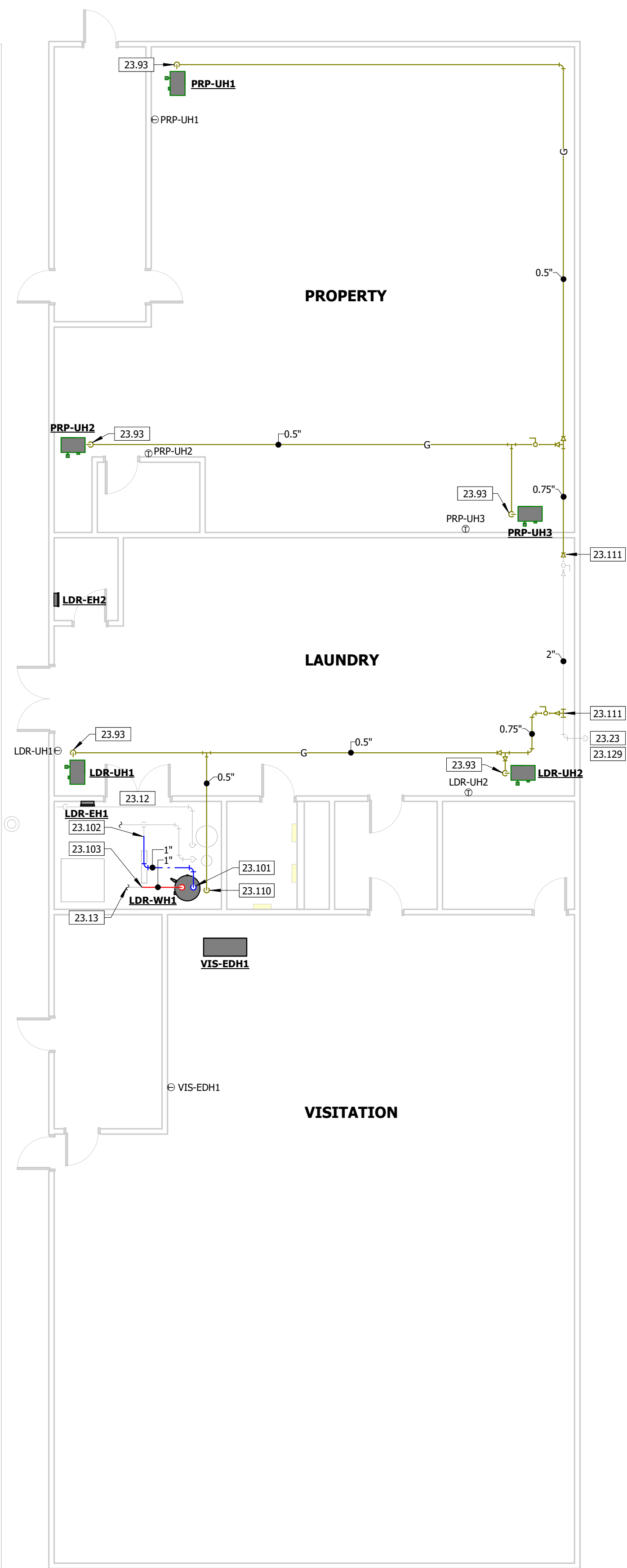
CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
PIPING PLAN

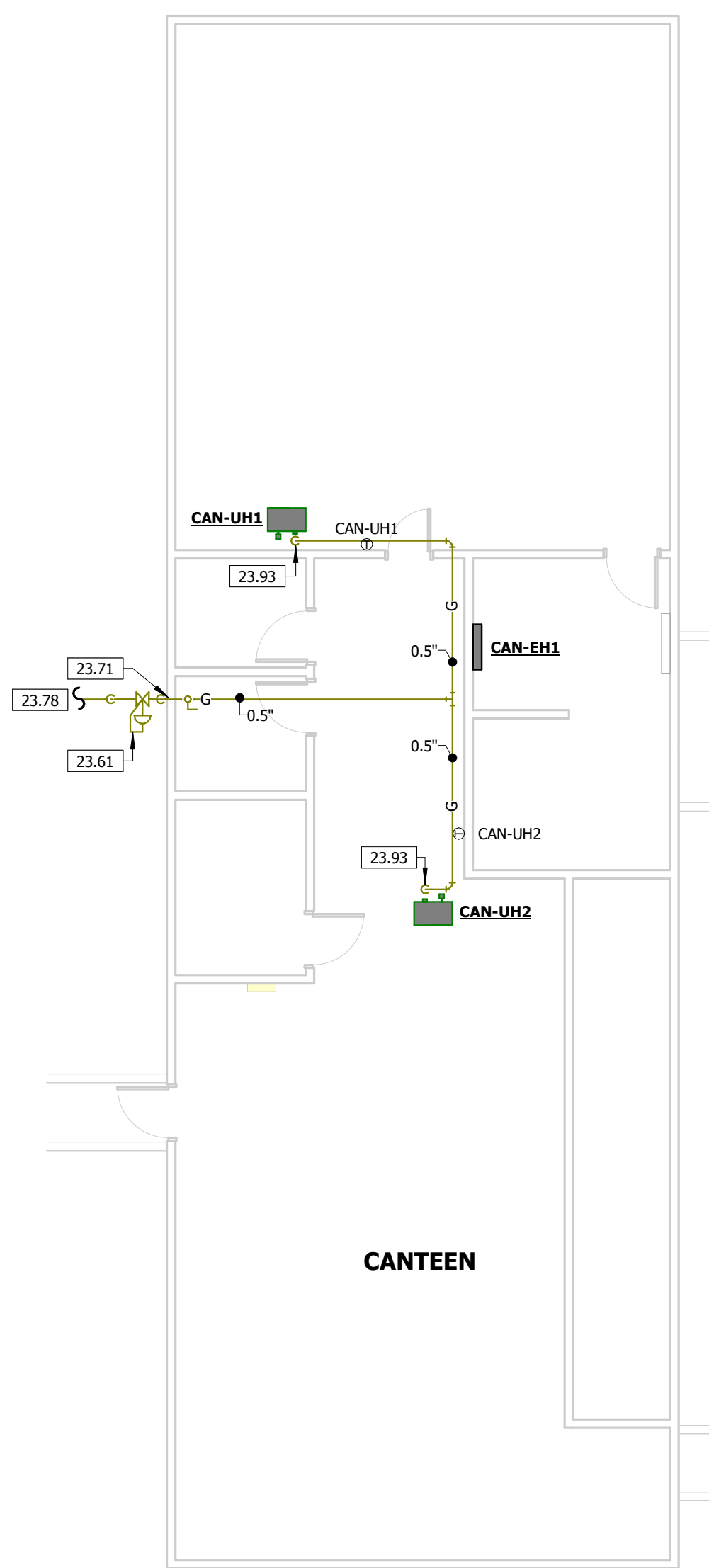
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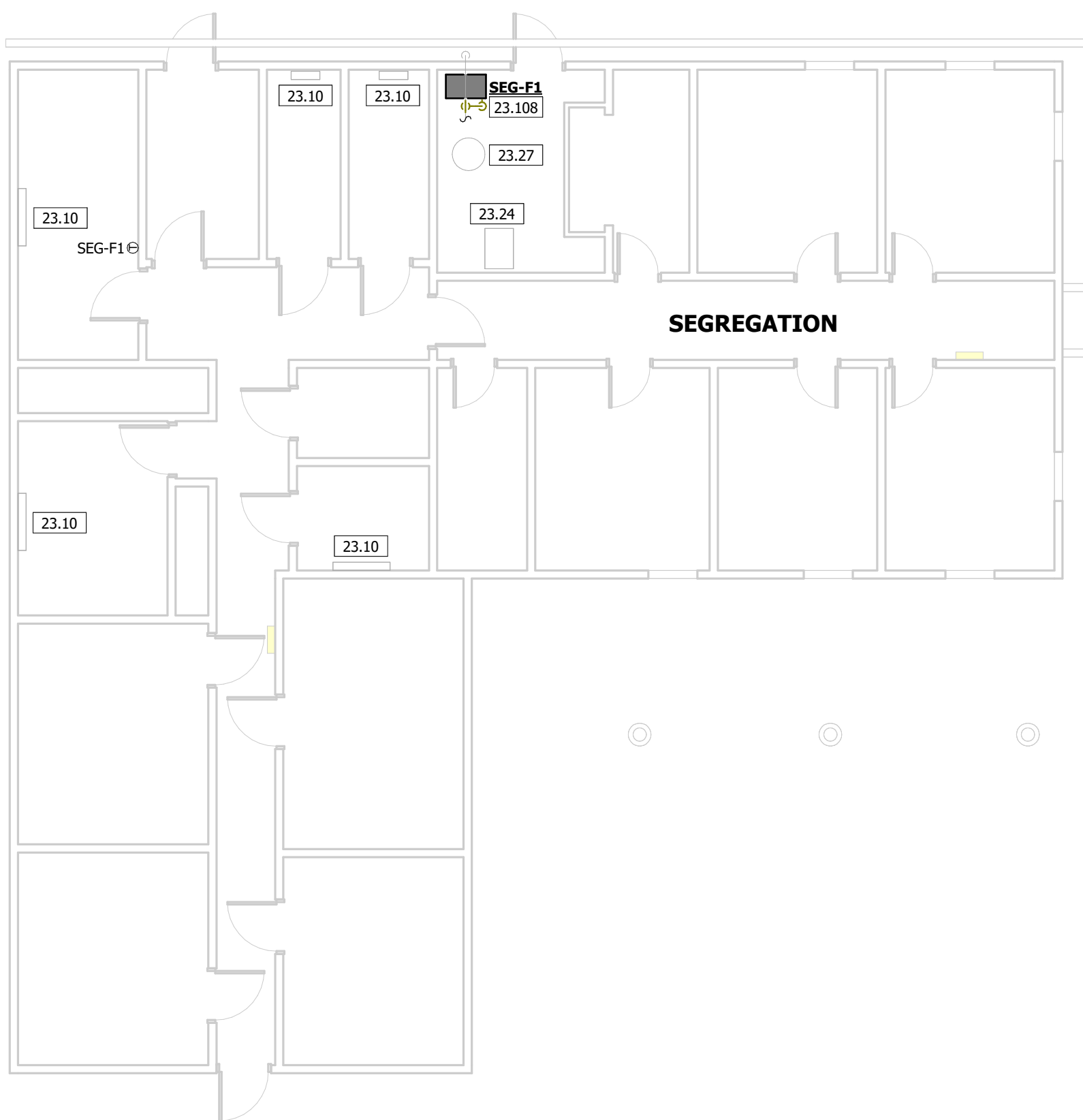
14 OF 31 SHEETS
02/04/2025



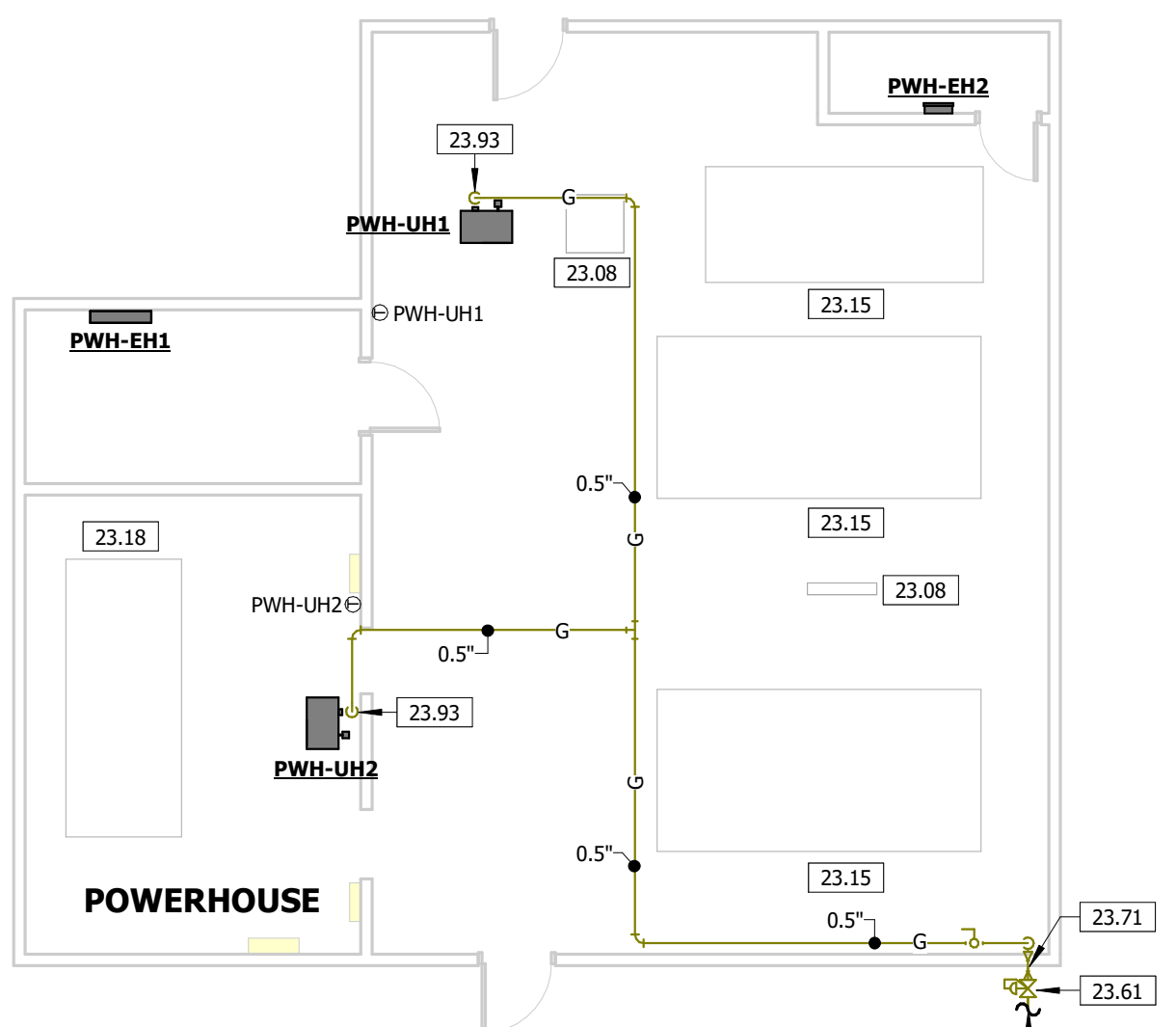
5 MECHANICAL PIPING PLAN - VISITATION
1/8" = 1'-0"



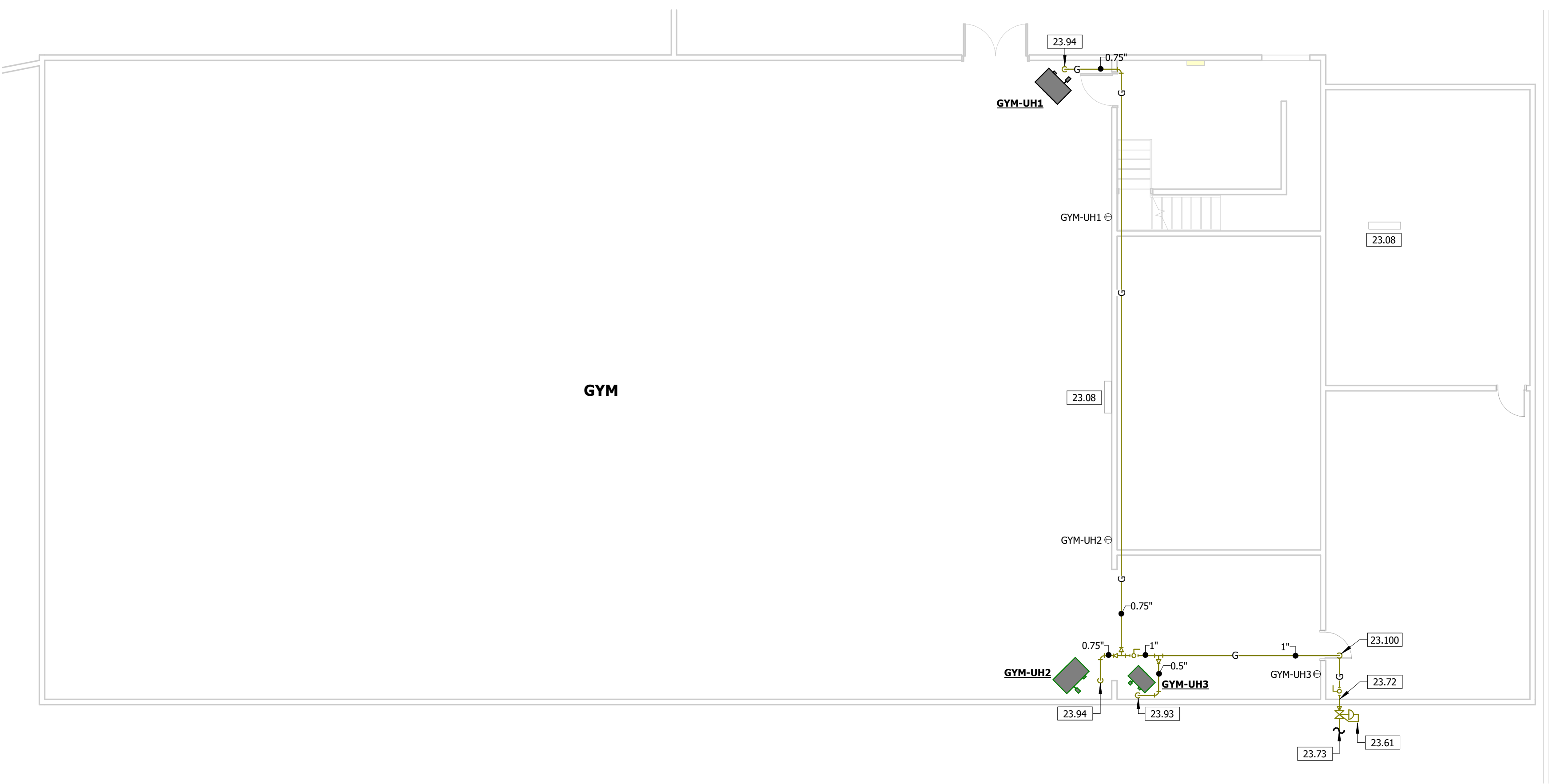
4 MECHANICAL PIPING PLAN - CANTEEN
1/8" = 1'-0"



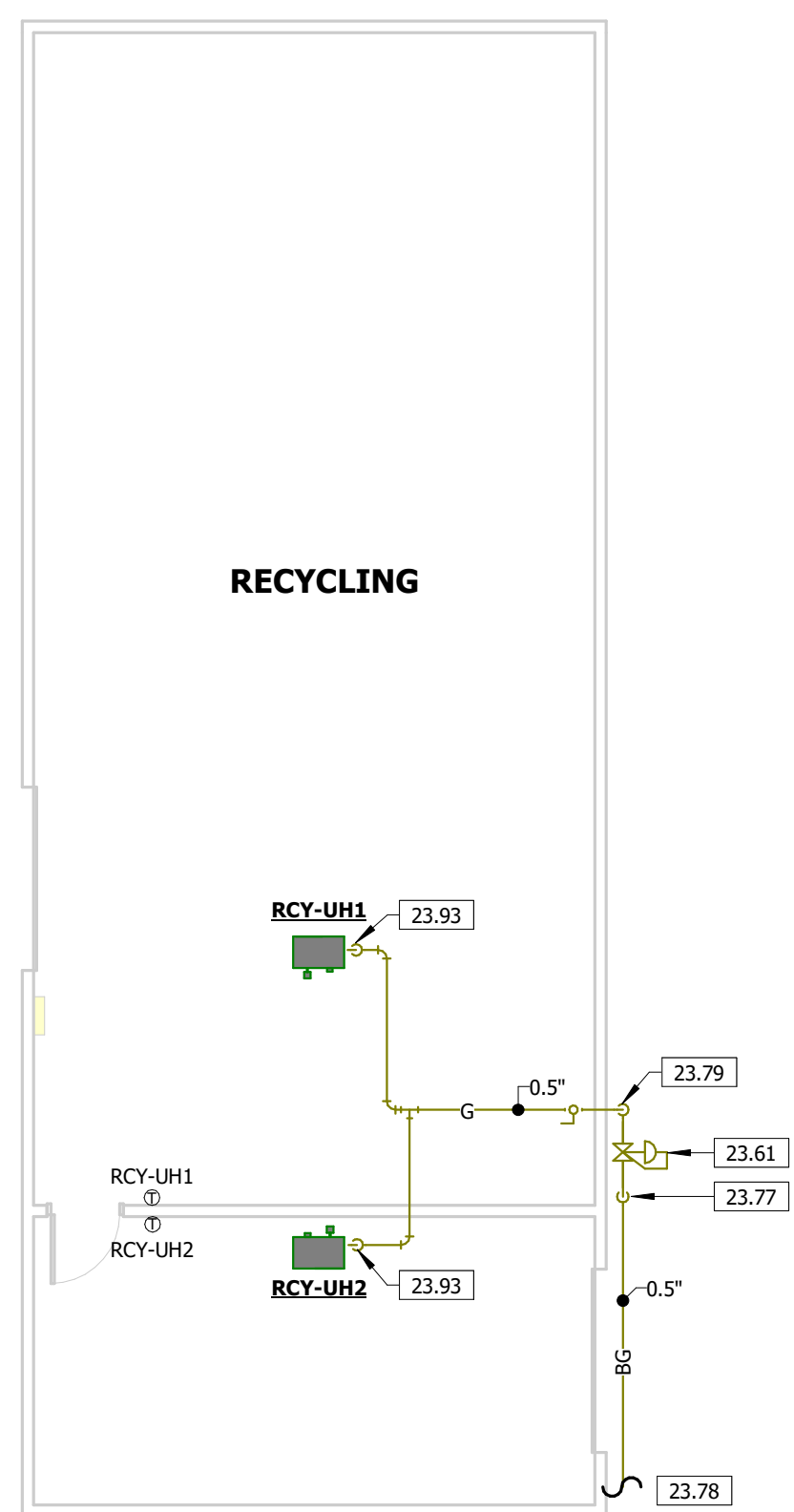
3 MECHANICAL PIPING PLAN - SEGREGATION
1/8" = 1'-0"



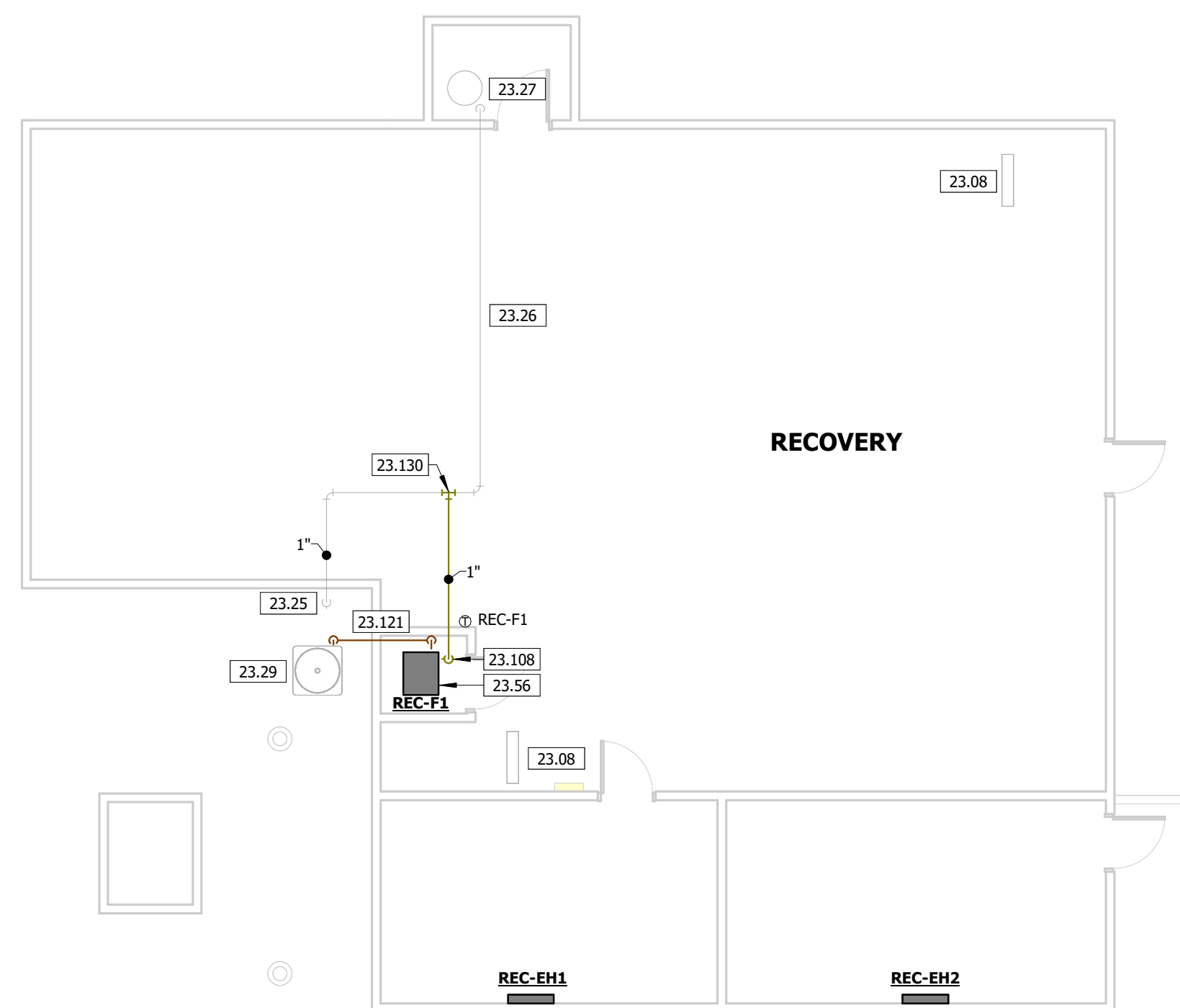
2 MECHANICAL PIPING PLAN - POWERHOUSE
1/8" = 1'-0"



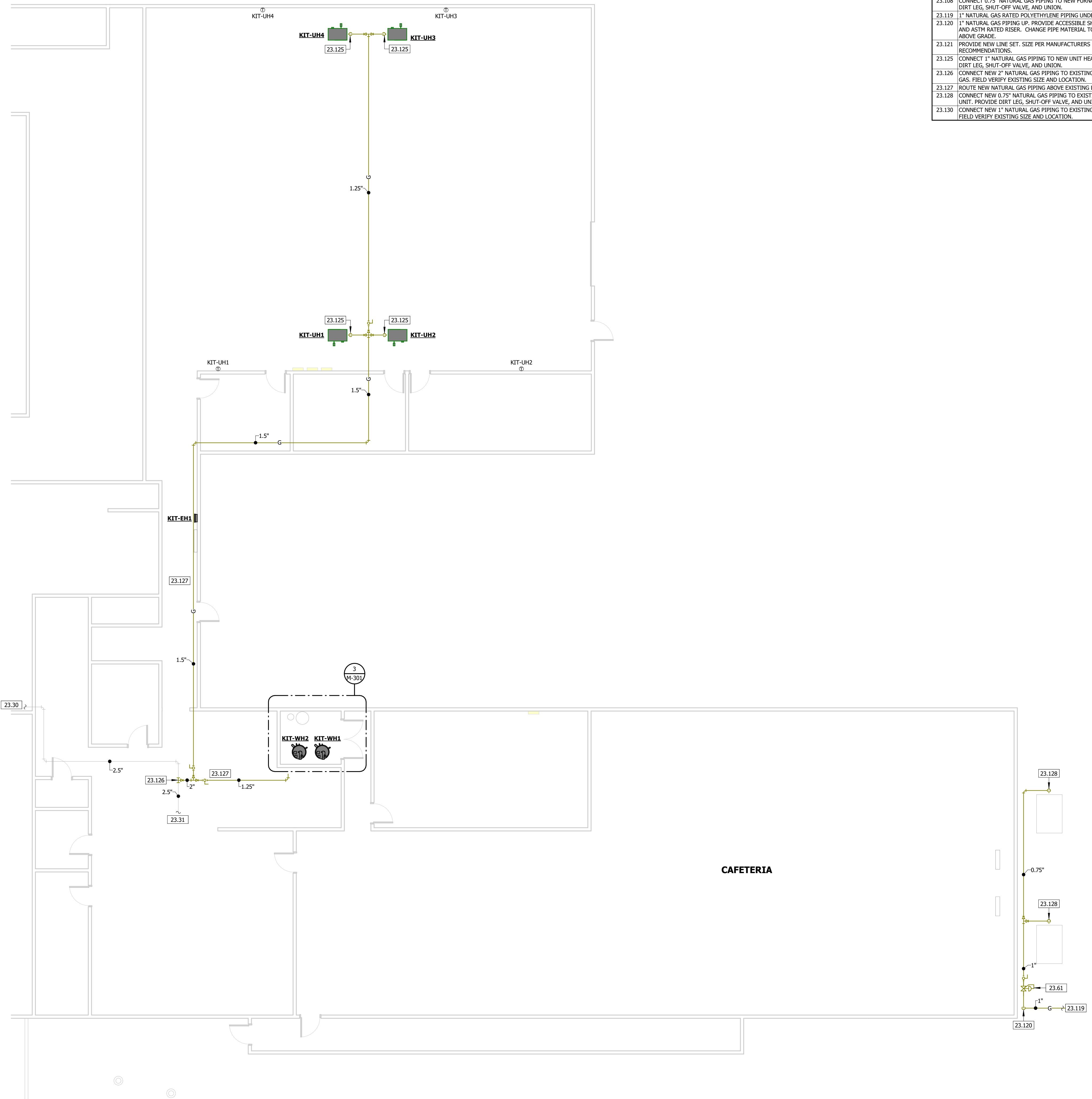
1 MECHANICAL PIPING PLAN - GYM
1/8" = 1'-0"



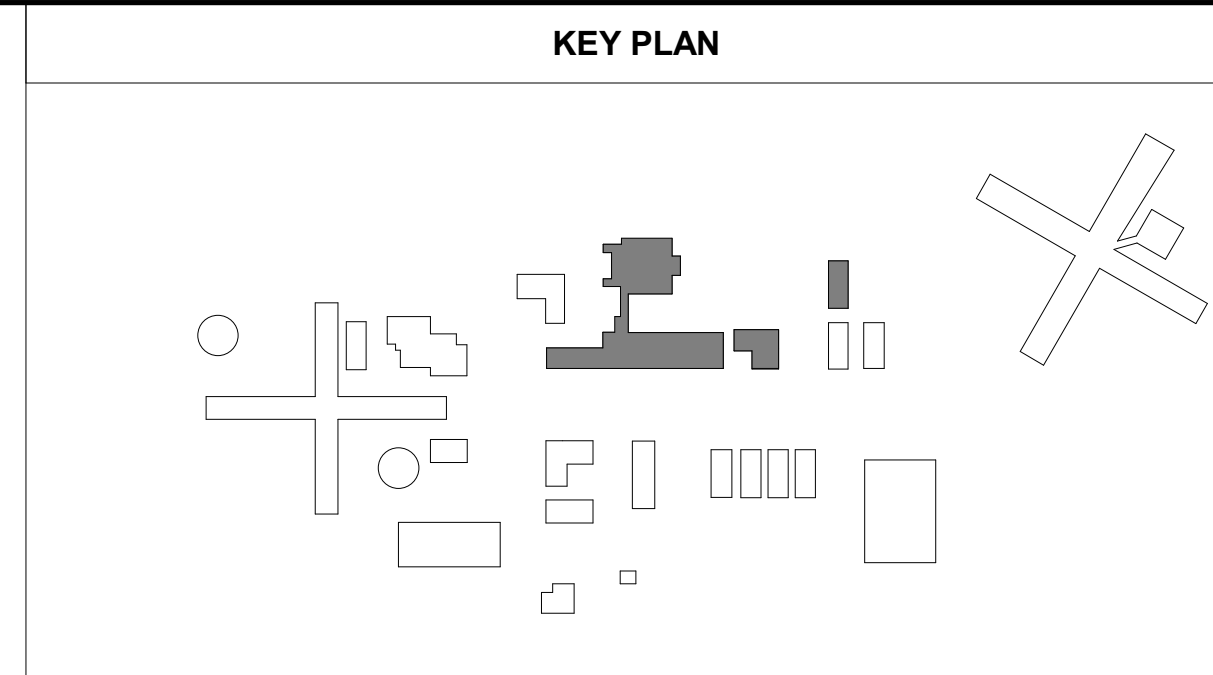
3 MECHANICAL PIPING PLAN - RECYCLING 



2 MECHANICAL PIPING PLAN - RECOVERY




1 MECHANICAL PIPING PLAN - CAFETERIA



| KEYWORD | KEYNOTE TEXT |
|---------|--|
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM MAINS AND PIPING; EXHAUSTION, AND ASSOCIATED DUCTWORK AND AIR DRAINS. |
| 23.25 | EXISTING 1" NATURAL GAS PIPE AND REGULATOR UP INTO BUILDING MAINS. |
| 23.26 | EXISTING 1" NATURAL GAS LINE LOCATED IN THE BUILDING SHALL REMAIN. |
| 23.27 | EXISTING WATER HEATER AND ASSOCIATED PIPING SHALL REMAIN. |
| 23.28 | EXISTING CONDENSING UNIT SHALL REMAIN. EXISTING UNIT IS A 1/2" R-10 INSULATED CONDENSER. |
| 23.29 | EXISTING 2.5" NATURAL GAS PIPE AND REGULATOR UP INTO BUILDING SHALL REMAIN. |
| 23.30 | EXISTING 2.5" NATURAL GAS LINE LOCATED IN THE BUILDING SHALL REMAIN. |
| 23.35 | INSTALL NEW PURCHASE IN PLACE OF EXISTING AIR HANDLER. RECONNECT EXISTING DUCTWORK AND SUPPLEMENT COIL TO PROVIDE NEW LINE SET FROM OUTDOOR UNIT TO INDOOR UNIT. |
| 23.61 | PROVIDE PRESSURE REGULATING VALVE EQUIVALENT TO INCHLORD SERIES 325, SIZE PRESSURE REGULATOR FOR PS 1 MATRIT AND "WC. |
| 23.62 | 0.5" NATURAL GAS PIPING - PROVIDE ACCESSIBLE SHUT-OFF WITH 1/2" NPT FEMALE END AND 1/2" NPT MALE END. BLACK IRON ABOVE GRADE. SEE ENLARGED PLAN FOR CONTINUATION INTO ROUTING. |
| 23.63 | NATURAL GAS PIPING. REFERT TO SITE PLAN FOR CONNECTION ROUTING. |
| 23.64 | 0.5" NATURAL GAS PIPE THROUGH MATEL. SIZING, SEAL NEW OPENING PER TIGHT. |
| 23.69 | CONNECT 0.5" NATURAL GAS PIPING TO UNIT HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.70 | CONNECT 0.75" NATURAL GAS PIPE TO NEW PURCHASE, PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.71 | NATURAL GAS, RATE RATED POLYETHYLENE PIPING, UNDERGROUND. |
| 23.72 | NATURAL GAS PIPING, 1/2" OR LESS, ACCESSIBLE SHUT-OFF VALVE AND ASTER KINSEID. CHANGE PIPE MATERIAL TO BLACK IRON ABOVE GRADE. |
| 23.73 | PROVIDE NEW LINE SET, SIZE PER MANUFACTURERS RECOMMENDATIONS. |
| 23.74 | CONNECT 1" NATURAL GAS PIPING TO NEW UNIT HEATER, PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.75 | CONNAIR 1/2" R-10 INSULATED CONDENSER, EXISTING 2" NATURAL GAS, FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.77 | ROUTE NEW NATURAL GAS PIPING ABOVE EXISTING LAY-IN CEILING. |
| 23.78 | CONNAIR 1/2" R-10 INSULATED CONDENSER, EXISTING 2" NATURAL UNIT. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.79 | CONNECT NEW 1" NATURAL GAS PIPING TO EXISTING 1" PIPING. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758



The seal is circular with a double-lined border. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars on each side. The inner circle contains the text "JACOB ADAM NELSON" and "NUMBER PE-2009018758" below it. A signature is written across the seal.

02/04/2023
PROFESSIONAL SEAL



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MECHANICAL • ELECTRICAL • PLUMBING
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417.708.7025
WWW.TRUE-MEP.COM

TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-201600752

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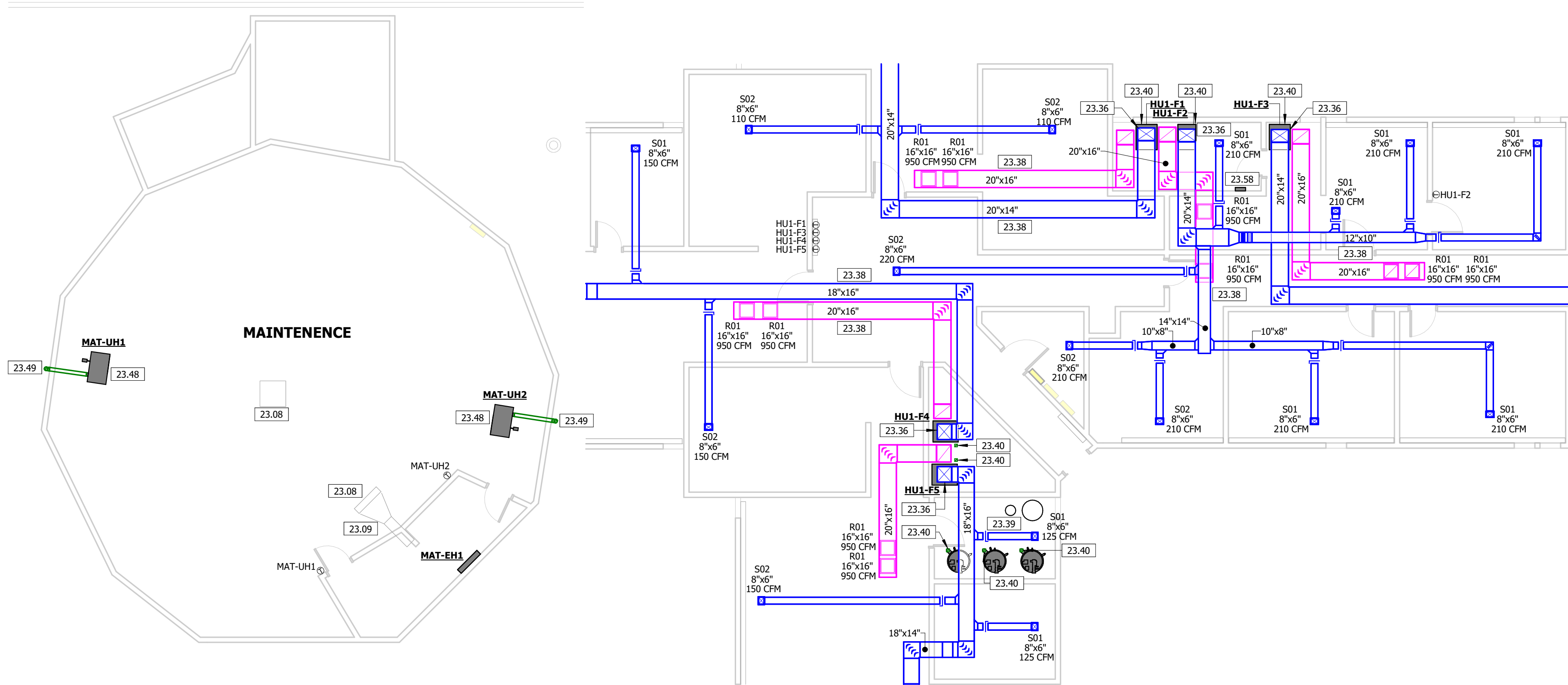
CAD DWG FILE: C2324-01
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SHEET TITLE:
MECHANICAL
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SHEET NUMBER:

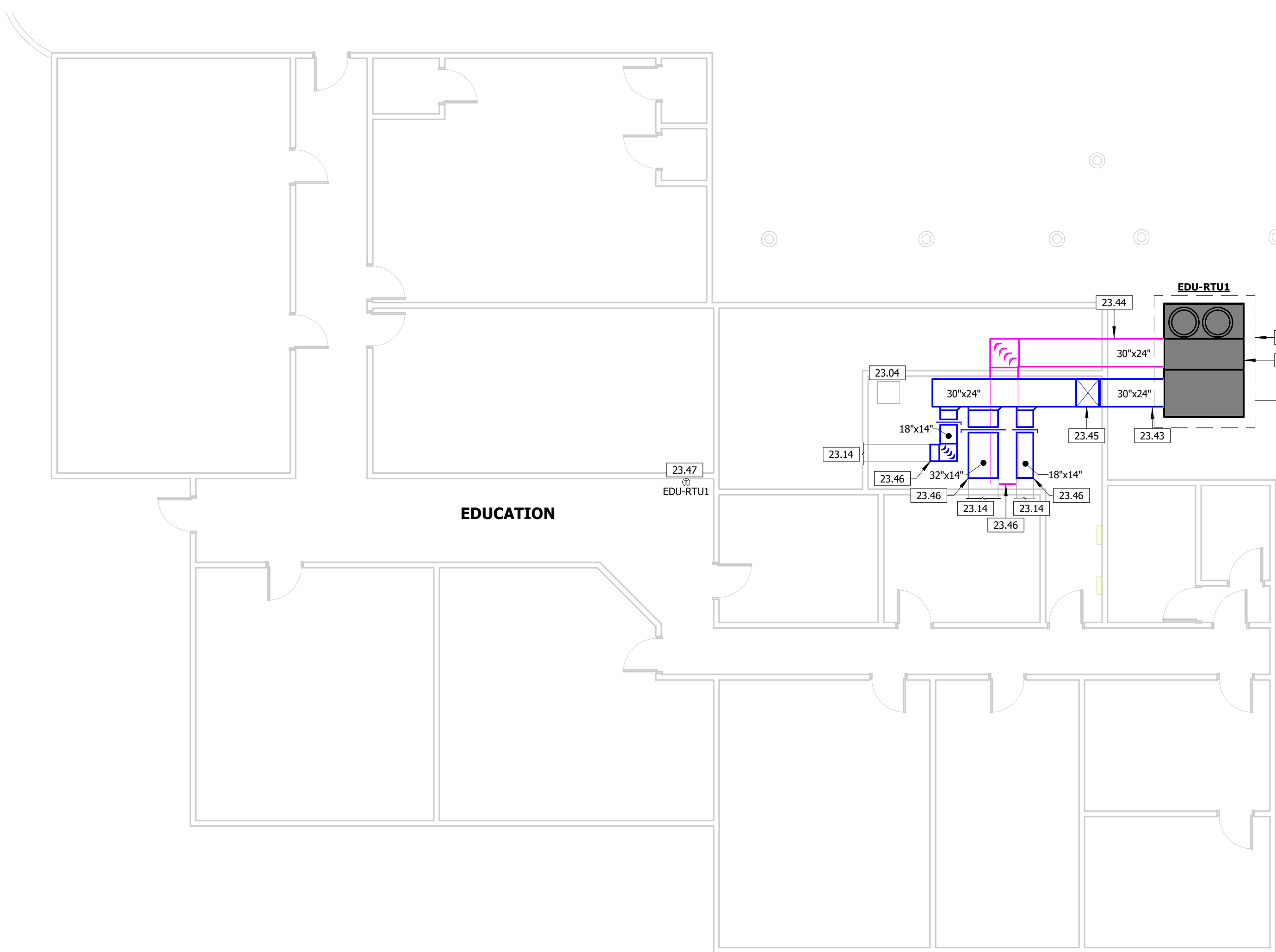
M-105

15 OF 31 SHEETS
02/04/2025

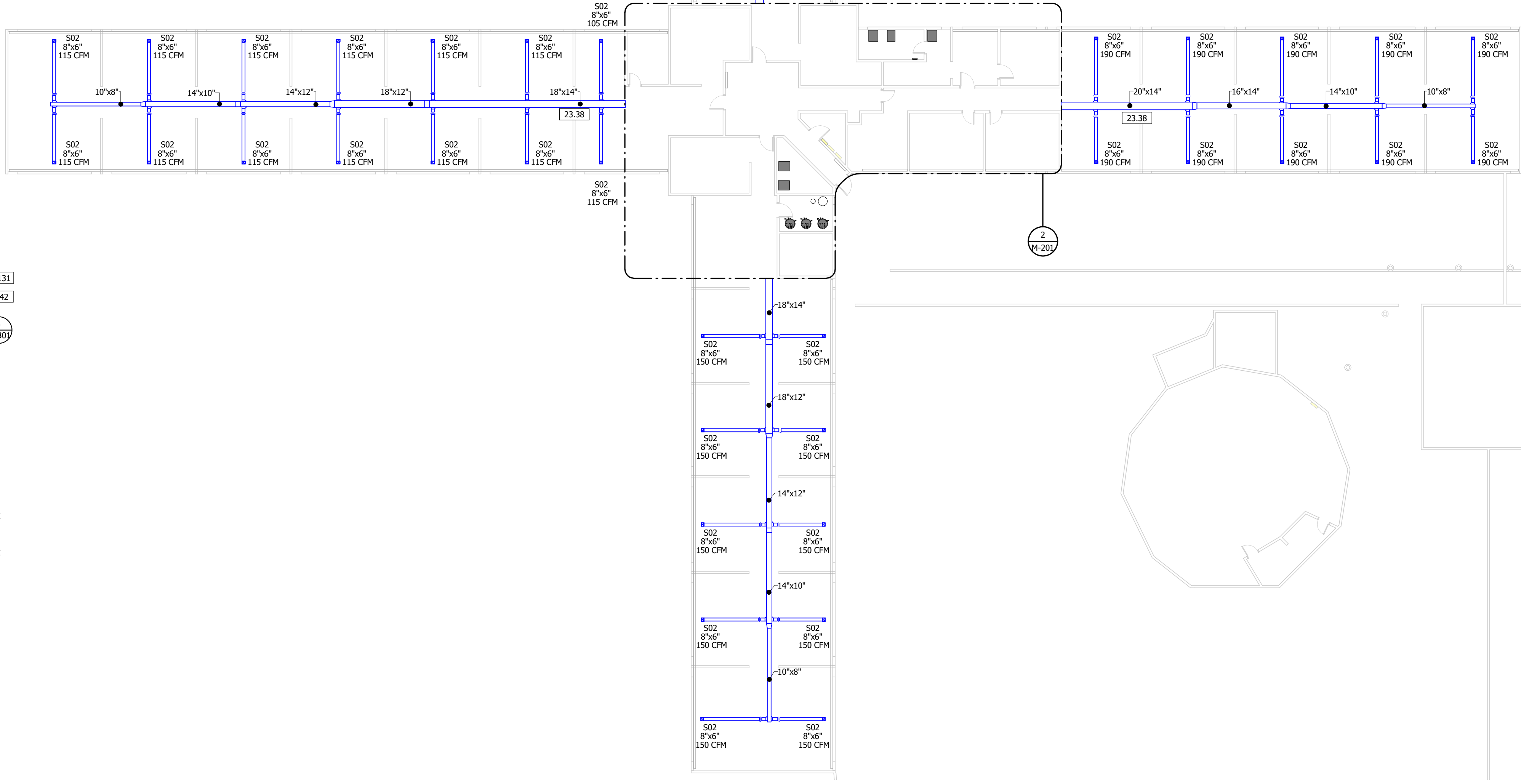


4 MECHANICAL PLAN - MAINTENANCE
1/8" = 1'-0"

2 MECHANICAL PLAN - HU1 - ENLARGED
1/8" = 1'-0"



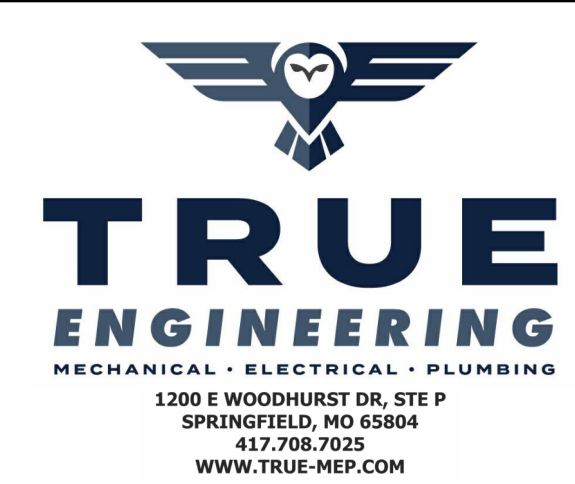
3 MECHANICAL PLAN - EDUCATION
1/8" = 1'-0"



1 MECHANICAL PLAN - HOUSING UNIT ONE
1/16" = 1'-0"

| KEY PLAN | |
|----------------|---|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 23.04 | ABANDON IN PLACE EXISTING CONDENSATE RECEIVER PUMP. |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| 23.09 | ABANDON IN PLACE EXISTING DUCTWORK AND ASSOCIATED AIR DEVICES IN ROOMS. |
| 23.14 | EXISTING DUCTWORK THROUGHOUT BUILDING FROM EXISTING AIR HANDLER SHALL REMAIN. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. |
| 23.36 | 20"x14" SUPPLY AND 20"x16" RETURN DOWN TO MECHANICAL EQUIPMENT AND UP INTO ATTIC SPACE. PROVIDE FLEXIBLE CONNECTION TO UNIT. PATCH AND REPAIR GYP CEILING AS REQUIRED AFTER PENETRATION INTO ATTIC. |
| 23.38 | DUCTWORK ROUTED IN ATTIC SPACE. |
| 23.39 | RELOCATE EXISTING WATER SOFTENER AND BRINE TANK. REFER TO PIPING PLAN FOR FURTHER REQUIREMENTS. |
| 23.40 | EXTEND FLUE PIPING AND COMBUSTION AIR PIPING UP TERMINATE OUTSIDE PER MANUFACTURERS REQUIREMENTS. PROVIDE CONCENTRIC VENT KIT. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.42 | INSTALL NEW ROOFTOP UNIT ON NEW CONCRETE PAD. |
| 23.43 | CONNECT 30"x24" SUPPLY AND RETURN TO ROOFTOP UNIT. PROVIDE FLEXIBLE CONNECTION TO UNIT. |
| 23.44 | 30"x24" SUPPLY AND RETURN THROUGH EXTERIOR CMU WALL INTO BUILDING. SEAL WALL PENETRATION WEATHER TIGHT. |
| 23.45 | 30"x24" SUPPLY UP. ROUTE AS HIGH AS POSSIBLE INSIDE MECHANICAL ROOM. |
| 23.46 | CONNECT NEW DUCTWORK TO EXISTING DUCTWORK. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.47 | INSTALL NEW SENSOR FOR NEW MECHANICAL EQUIPMENT CONTROL. CONTRACTOR SHALL HAVE THE OPTION OF REUSING THE EXISTING RACEWAY AND CONDUCTORS AS NECESSARY. FIELD VERIFY EXISTING SENSOR LOCATION AND CONDITION. |
| 23.48 | INSTALL UNIT A MAXIMUM OF 10' AFF PER MANUFACTURERS RECOMMENDATIONS. |
| 23.49 | VERTICAL FLUE PIPING OUT THROUGH EXTERIOR WALL AND UP WALL PER MANUFACTURERS REQUIREMENTS. SEAL WALL PENETRATION WEATHER TIGHT. |
| 23.58 | LOCATION OF BUILDING AUTOMATION PANEL. COORDINATE LOCATION AND REQUIREMENTS WITH BAS CONTRACTOR. |
| 23.131 | INSTALL NEW CONCRETE PAD FOR MECHANICAL EQUIPMENT. |

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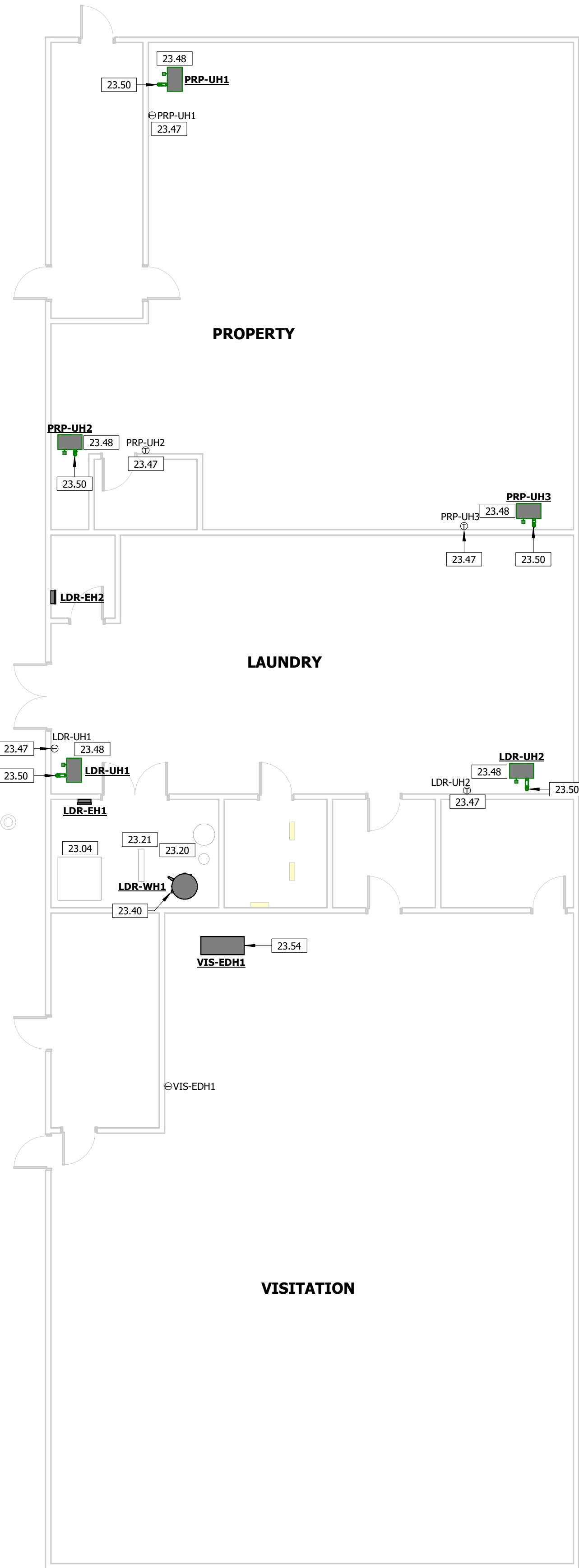
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MECHANICAL
PLAN

SHEET NUMBER:

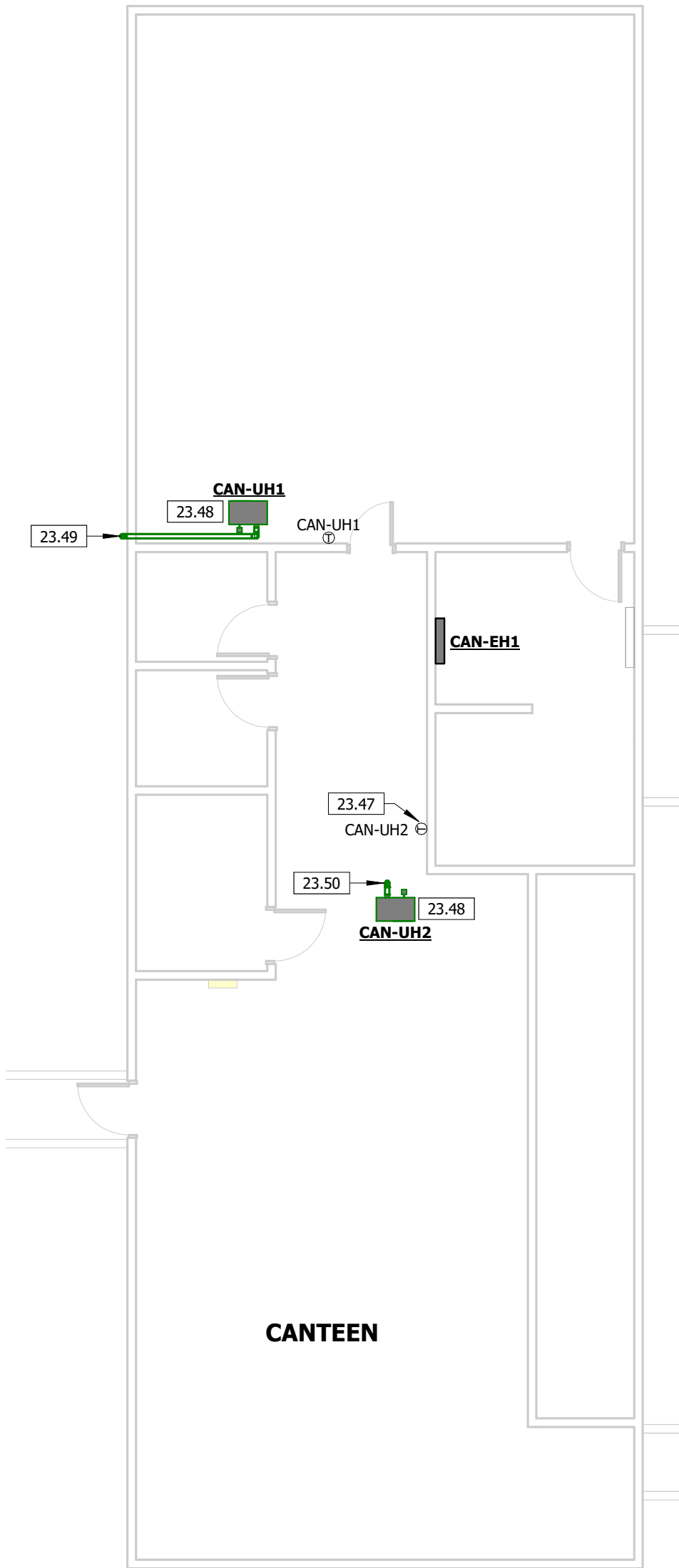
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02/04/2025

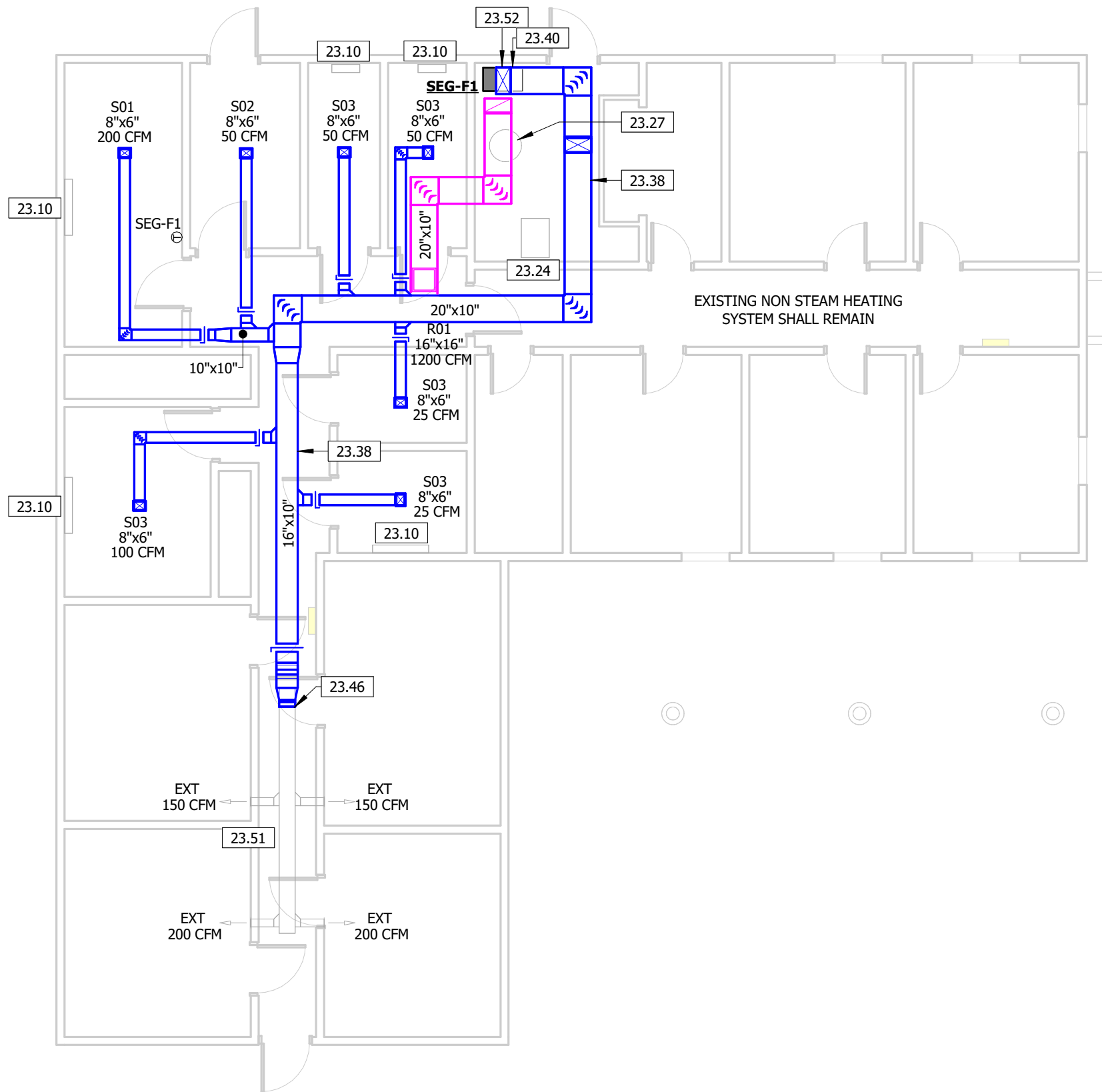
| KEY PLAN | |
|----------------|--|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 23.04 | ABANDON IN PLACE EXISTING CONDENSATE RECEIVER PUMP. |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| 23.10 | ABANDON IN PLACE STEAM RADIATOR AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING. |
| 23.15 | EXISTING STEAM BOILER AND ALL ASSOCIATED STEAM, CONDENSATE, FEED WATER, NATURAL GAS, FUEL OIL, FLUE, AND COMBUSTION AIR PIPING SHALL REMAIN AND BE ABANDONED IN PLACE. |
| 23.18 | EXISTING DA TANK AND ALL ASSOCIATED STEAM, CONDENSATE, FEED WATER, NATURAL GAS, FUEL OIL, FLUE, AND COMBUSTION AIR PIPING SHALL REMAIN AND BE ABANDONED IN PLACE. |
| 23.20 | EXISTING WATER SOFTENER AND BRINE TANK SHALL REMAIN. |
| 23.21 | ABANDON EXISTING DOMESTIC WATER SHELL AND TUBE HEAT EXCHANGER AND ASSOCIATED STEAM, CONDENSATE, AND DOMESTIC WATER PIPING IN PLACE. DISCONNECT HEAT EXCHANGER FROM EXISTING DOMESTIC COLD/HOT WATER AND CAP. |
| 23.24 | EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK SHALL REMAIN. |
| 23.27 | EXISTING WATER HEATER AND ASSOCIATED PIPING SHALL REMAIN. |
| 23.38 | DUCTWORK ROUTED IN ATTIC SPACE. |
| 23.40 | EXTEND FLUE PIPING AND COMBUSTION AIR PIPING UP TERMINATE OUTSIDE PER MANUFACTURERS REQUIREMENTS. PROVIDE CONCENTRIC VENT KIT. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.46 | CONNECT NEW DUCTWORK TO EXISTING DUCTWORK. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.47 | INSTALL NEW SENSOR FOR NEW MECHANICAL EQUIPMENT CONTROL. CONTRACTOR SHALL HAVE THE OPTION OF REUSING THE EXISTING RACEWAY AND CONDUCTORS AS NECESSARY. FIELD VERIFY EXISTING SENSOR LOCATION AND CONDITION. |
| 23.48 | INSTALL UNIT A MAXIMUM OF 10' AFF PER MANUFACTURERS RECOMMENDATIONS. |
| 23.49 | VERTICAL FLUE PIPING OUT THROUGH EXTERIOR WALL AND UP WALL PER MANUFACTURERS REQUIREMENTS. SEAL WALL PENETRATION WEATHER TIGHT. |
| 23.50 | VERTICAL FLUE PIPING UP THROUGH ROOF PER MANUFACTURERS REQUIREMENTS. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.51 | EXISTING DUCTWORK AND ASSOCIATED OUTSIDE AIR CONNECTIONS SHALL REMAIN. |
| 23.52 | 20"x10" SUPPLY AND RETURN DOWN TO MECHANICAL EQUIPMENT AND UP INTO ATTIC SPACE. PROVIDE FLEXIBLE CONNECTION TO UNIT. PATCH AND REPAIR GYP CEILING AS REQUIRED AFTER PENETRATION INTO ATTIC. |
| 23.54 | INSTALL NEW ELECTRIC DUCT HEATER IN EXISTING AIR HANDLER DUCTWORK PER MANUFACTURERS REQUIREMENTS. MODIFY SUPPLY DUCTWORK AS REQUIRED. |



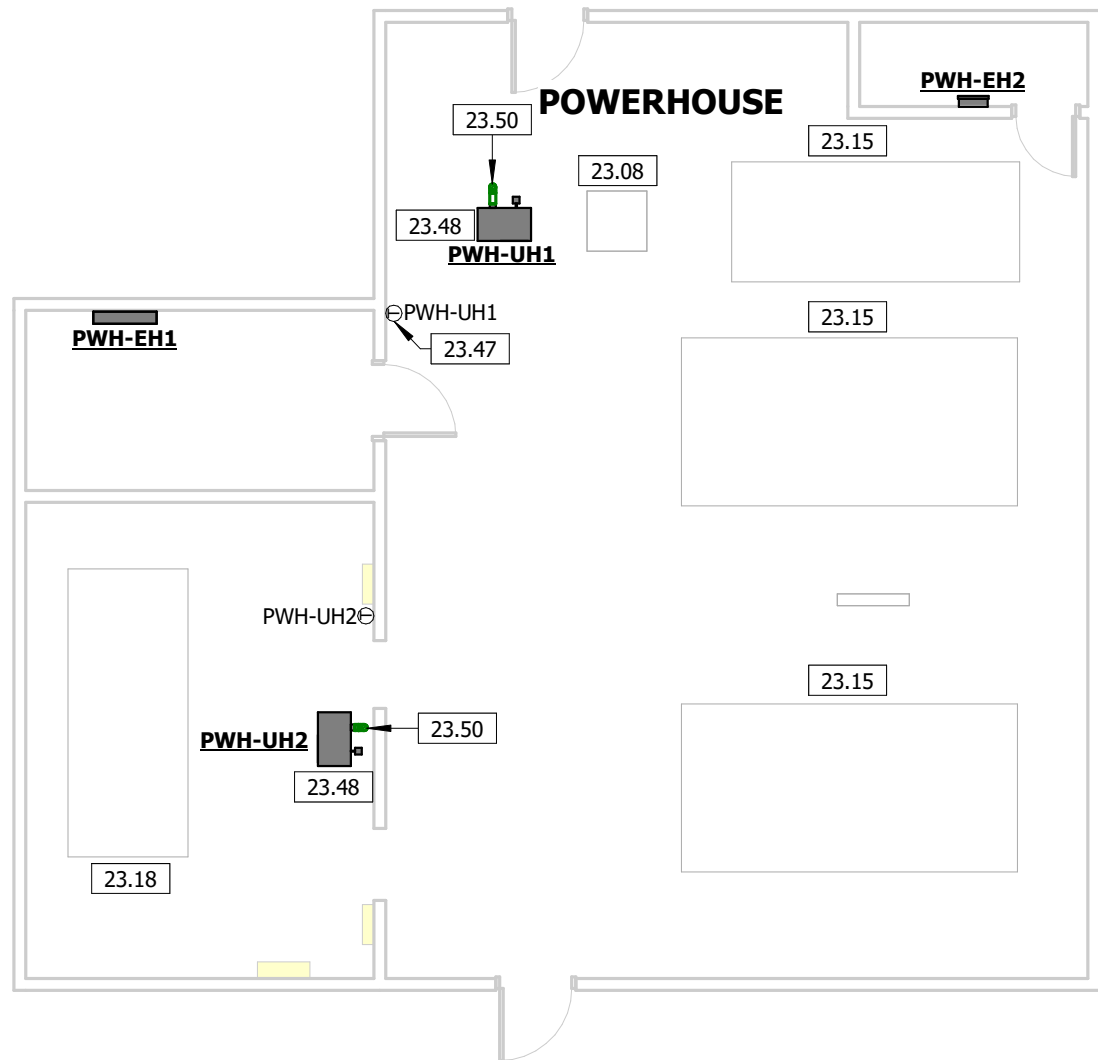
5 MECHANICAL PLAN - VISITATION
1/8" = 1'-0"



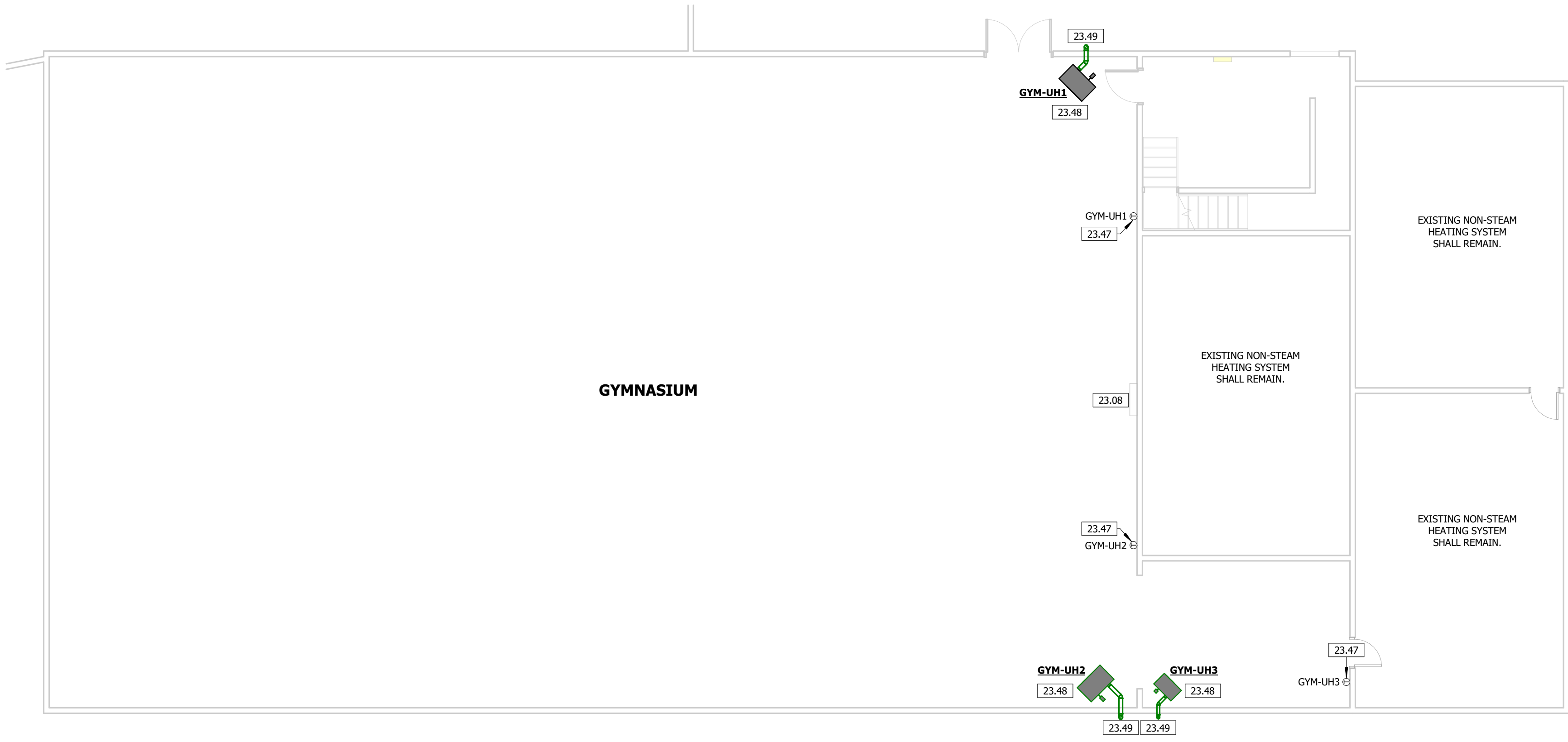
4 MECHANICAL PLAN - CANTEEN
1/8" = 1'-0"



3 MECHANICAL PLAN - SEGREGATION
1/8" = 1'-0"

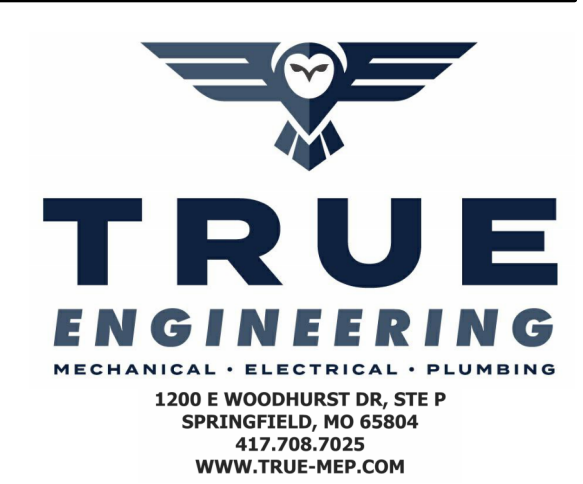


2 MECHANICAL PLAN - POWERHOUSE
1/8" = 1'-0"



1 MECHANICAL PLAN - GYM
1/8" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

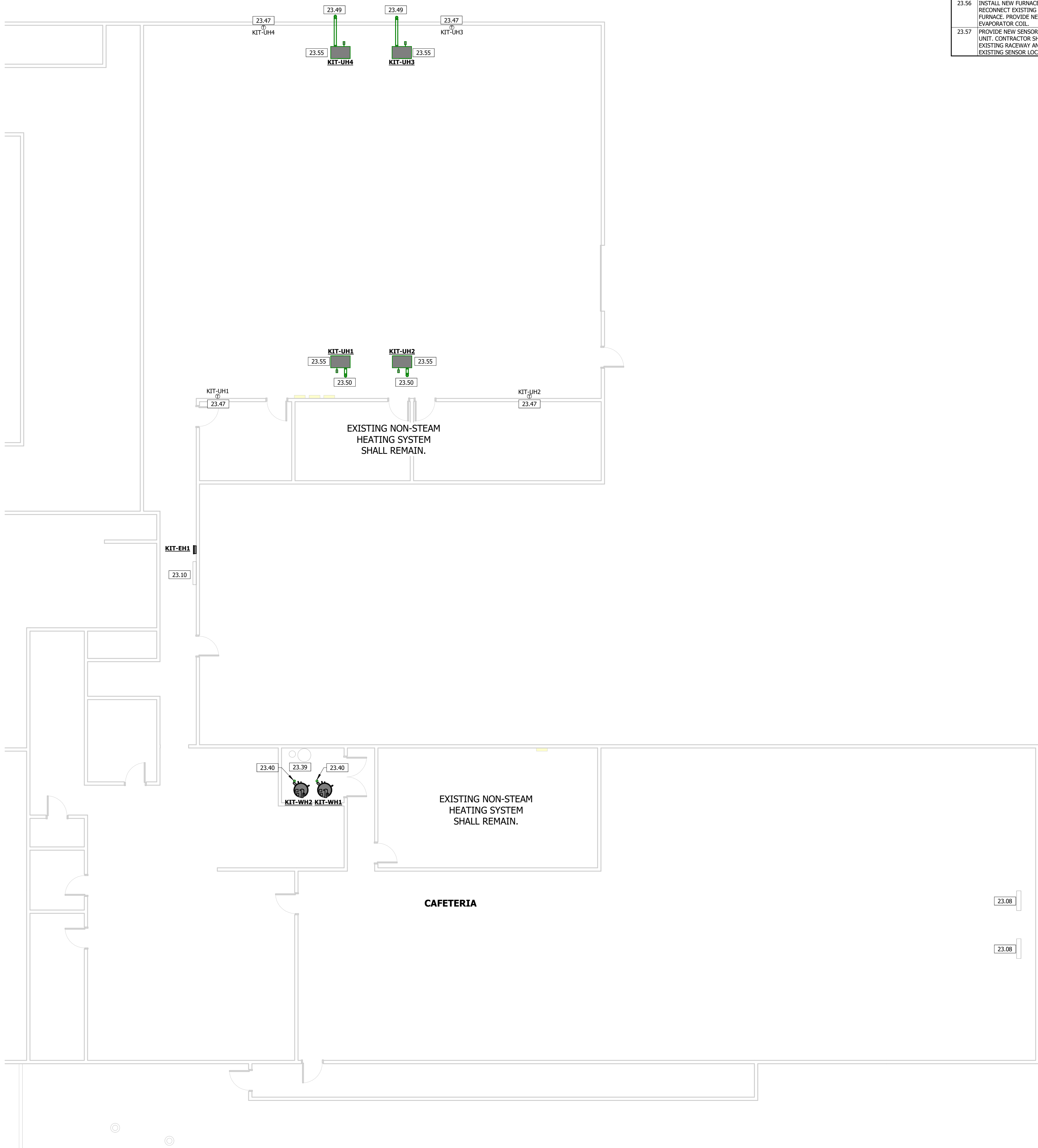
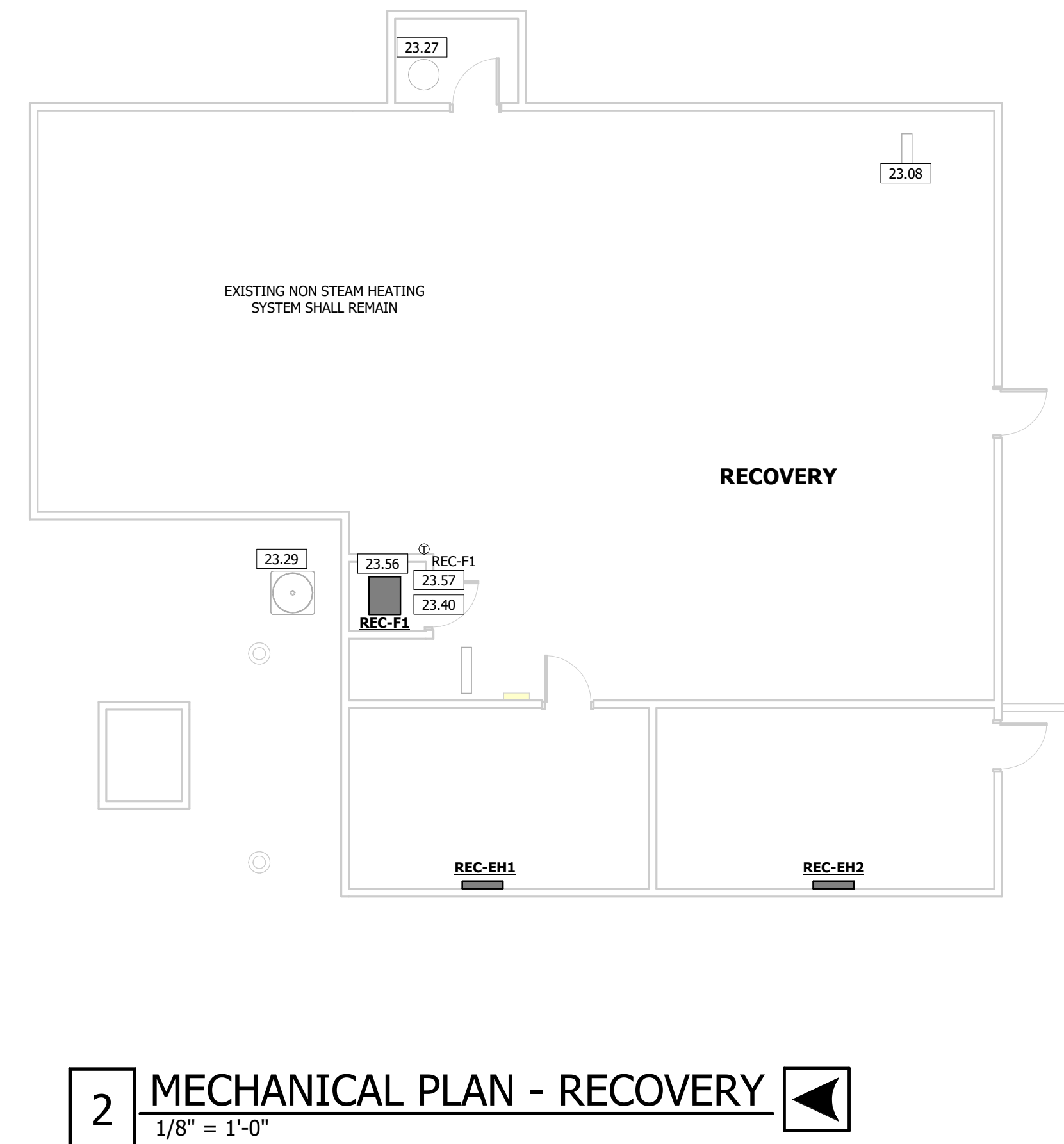
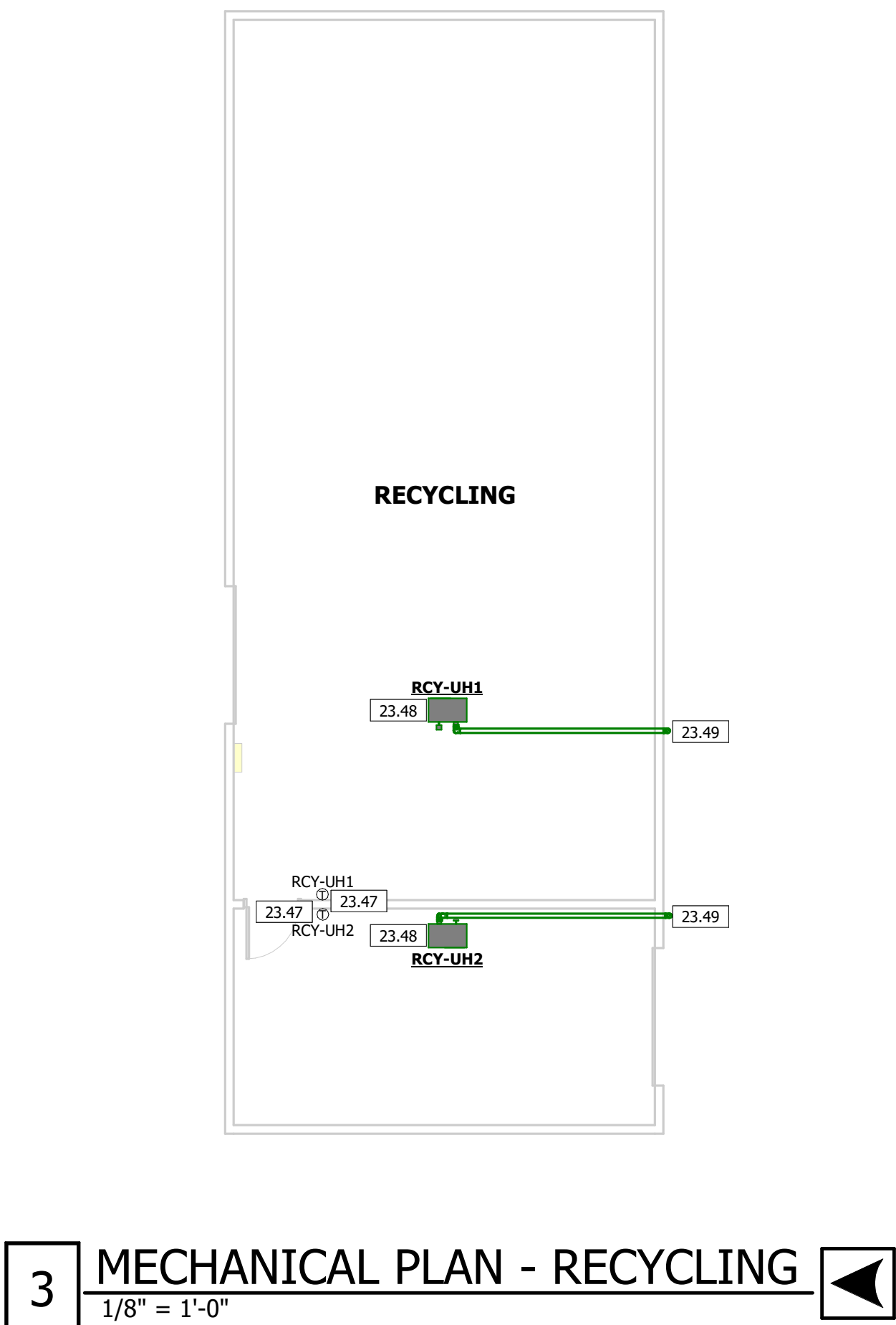
CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
PLAN

SHEET NUMBER:

M-202

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02/04/2025



| KEY PLAN | |
|----------------|---|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 23.08 | ABANDON IN PLACE EXISTING STEAM UNIT HEATER, ASSOCIATED STEAM AND CONDENSATE PIPING/ACCESSORIES, AND ASSOCIATED DUCTWORK AND AIR DEVICES. |
| 23.10 | ABANDON IN PLACE STEAM RADIATOR AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING. |
| 23.24 | EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK SHALL REMAIN. |
| 23.27 | EXISTING WATER HEATER AND ASSOCIATED PIPING SHALL REMAIN. EXISTING CONDENSING UNIT SHALL REMAIN. EXISTING UNIT IS A NORTEK 354BD-060KA MODEL. |
| 23.39 | RELOCATE EXISTING WATER SOFTENER AND BRINE TANK. REFER TO PIPING PLAN FOR FURTHER REQUIREMENTS. |
| 23.40 | EXTEND FLUE PIPING AND COMBUSTION AIR PIPING UP TERMINATE OUTSIDE PER MANUFACTURERS REQUIREMENTS. PROVIDE CONCENTRIC VENT KIT. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.47 | INSTALL NEW SENSOR FOR NEW MECHANICAL EQUIPMENT CONTROL. CONTRACTOR SHALL HAVE THE OPTION OF REUSING THE EXISTING RACEWAY AND CONDUCTORS AS NECESSARY. FIELD VERIFY EXISTING SENSOR LOCATION AND CONDITION. |
| 23.48 | INSTALL UNIT A MAXIMUM OF 10' AFF PER MANUFACTURERS RECOMMENDATIONS. |
| 23.49 | VERTICAL FLUE PIPING OUT THROUGH EXTERIOR WALL AND UP WALL PER MANUFACTURERS REQUIREMENTS. SEAL WALL PENETRATION WEATHER TIGHT. |
| 23.50 | VERTICAL FLUE PIPING UP THROUGH ROOF PER MANUFACTURERS REQUIREMENTS. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.55 | INSTALL UNIT IN SAME LOCATION AS EXISTING UNIT PER MANUFACTURERS RECOMMENDATIONS. |
| 23.56 | INSTALL NEW FURNACE IN PLACE OF EXISTING AIR HANDLER. RECONNECT EXISTING DUCTWORK AND EVAPORATOR COIL TO NEW FURNACE. PROVIDE NEW LINE SET FROM OUTDOOR UNIT TO INDOOR EVAPORATOR COIL. |
| 23.57 | PROVIDE NEW SENSOR FOR FURNACE AND EXISTING CONDENSING UNIT. CONTRACTOR SHALL HAVE THE OPTION OF REUSING THE EXISTING RACEWAY AND CONDUCTORS AS NECESSARY. FIELD VERIFY EXISTING SENSOR LOCATION AND CONDITION. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758

STATE OF MISSOURI
JACOB
ADAM NELSON
NUMBER
PE-2009018758
02/04/2025

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OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

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DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
PLAN

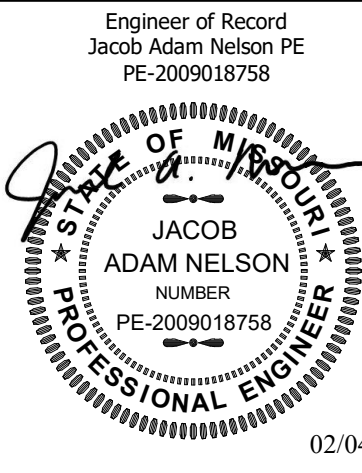
SHEET NUMBER:

M-203

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02/04/2025

| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | KEYNOTE TEXT |
| 23.33 | EXISTING CONDENSING UNIT SHALL REMAIN. EXISTING UNIT IS A WEATHER KING MODEL WPH18BJ1NA. |
| 23.38 | DUCTWORK ROUTED IN ATTIC SPACE. |
| 23.40 | EXTEND FLUE PIPING AND COMBUSTION AIR PIPING UP TERMINATE OUTSIDE PER MANUFACTURERS REQUIREMENTS. PROVIDE CONCENTRIC VENT KIT. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.47 | INSTALL NEW SENSOR FOR NEW MECHANICAL EQUIPMENT CONTROL. CONTRACTOR SHALL HAVE THE OPTION OF REUSING THE EXISTING RACEWAY AND CONDUCTORS AS NECESSARY. FIELD VERIFY EXISTING SENSOR LOCATION AND CONDITION. |
| 23.48 | INSTALL UNIT A MAXIMUM OF 10' AFF PER MANUFACTURERS RECOMMENDATIONS. |
| 23.50 | VERTICAL FLUE PIPING UP THROUGH ROOF PER MANUFACTURERS REQUIREMENTS. SEAL ROOF PENETRATION WEATHER TIGHT. |
| 23.56 | INSTALL NEW FURNACE IN PLACE OF EXISTING AIR HANDLER. RECONNECT EXISTING DUCTWORK AND EVAPORATOR COIL TO NEW FURNACE. PROVIDE NEW LINE SET FROM OUTDOOR UNIT TO INDOOR EVAPORATOR COIL. |
| 23.58 | LOCATION OF BUILDING AUTOMATION PANEL. COORDINATE LOCATION AND REQUIREMENTS WITH BAS CONTRACTOR. |
| 23.60 | 16"x16" SUPPLY AND 20"x16" RETURN DOWN TO MECHANICAL EQUIPMENT AND UP INTO ATTIC SPACE. PROVIDE FLEXIBLE CONNECTION TO UNIT. PATCH AND REPAIR GYP CEILING AS REQUIRED AFTER PENETRATION INTO ATTIC. |
| 23.137 | SENSOR SHALL BE EQUIPPED WITH DIGITAL DISPLAY AND TEMPERATURE OVERRIDE BUTTONS. |

STATE OF MISSOURI
MIKE KEHOE,
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PROJECT # C2324-01
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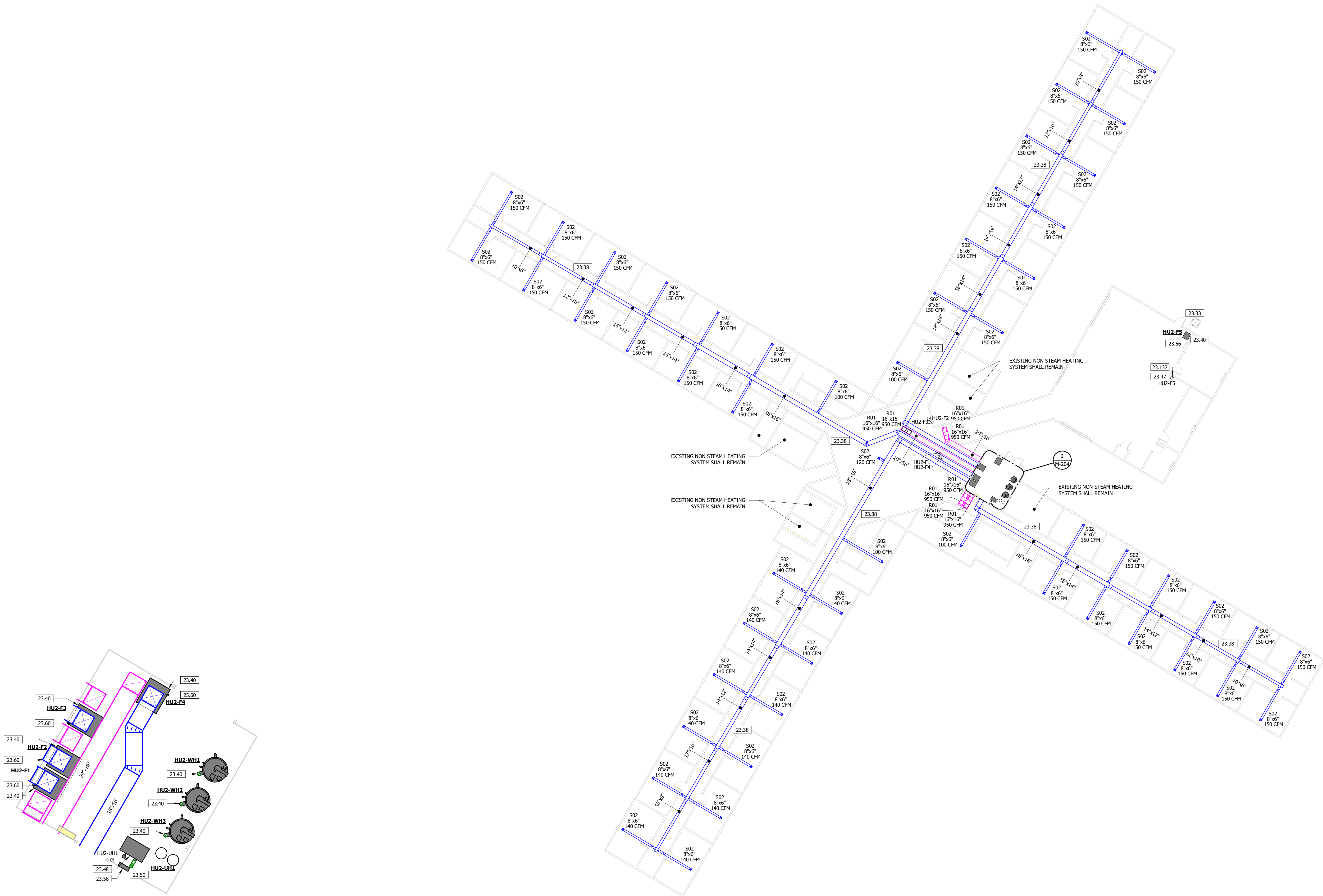
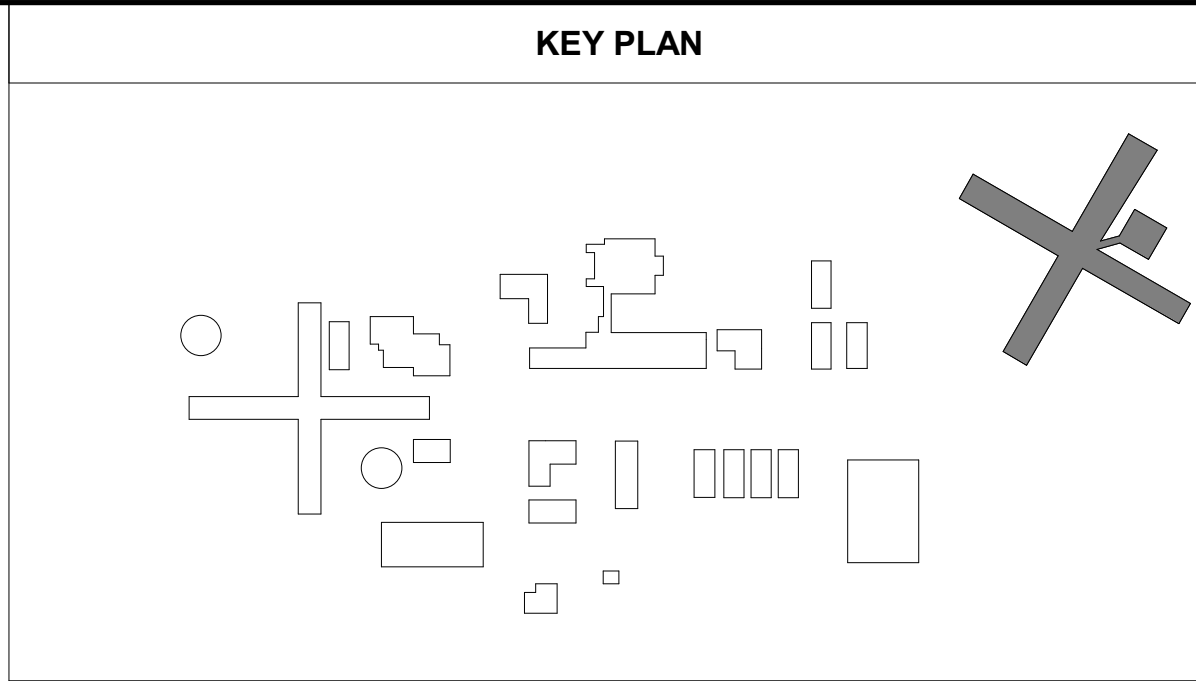
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DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
PLAN

SHEET NUMBER:

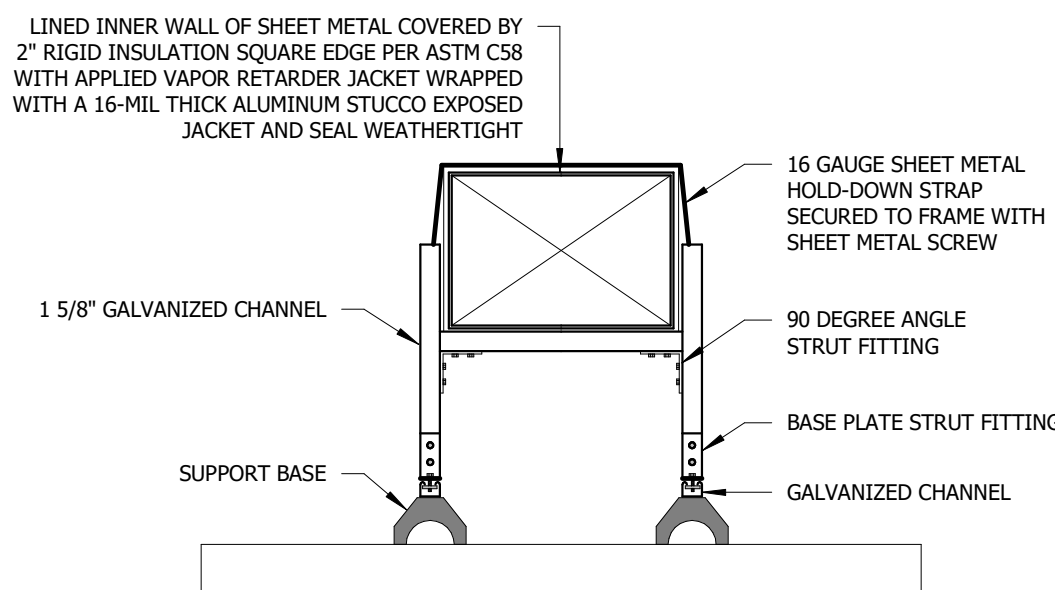
M-204

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02/04/2025



2 MECHANICAL PLAN - HU2 - ENLARGED
1/4" = 1'-0"

1 MECHANICAL PLAN - HOUSING UNITS TWO
1/16" = 1'-0"

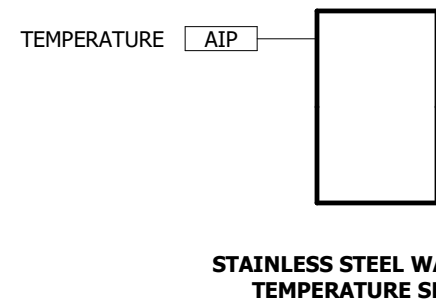


NOTES:

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

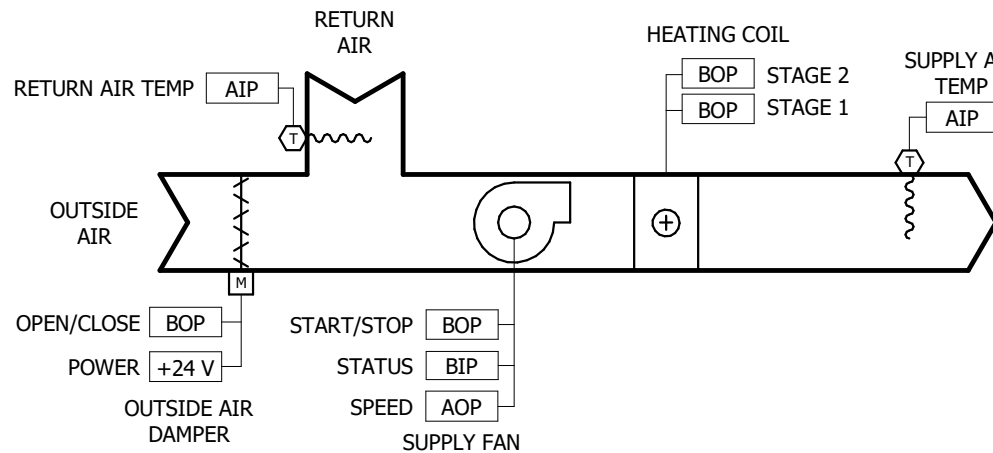
12 EXTERIOR DUCTWORK

NOT TO SCALE



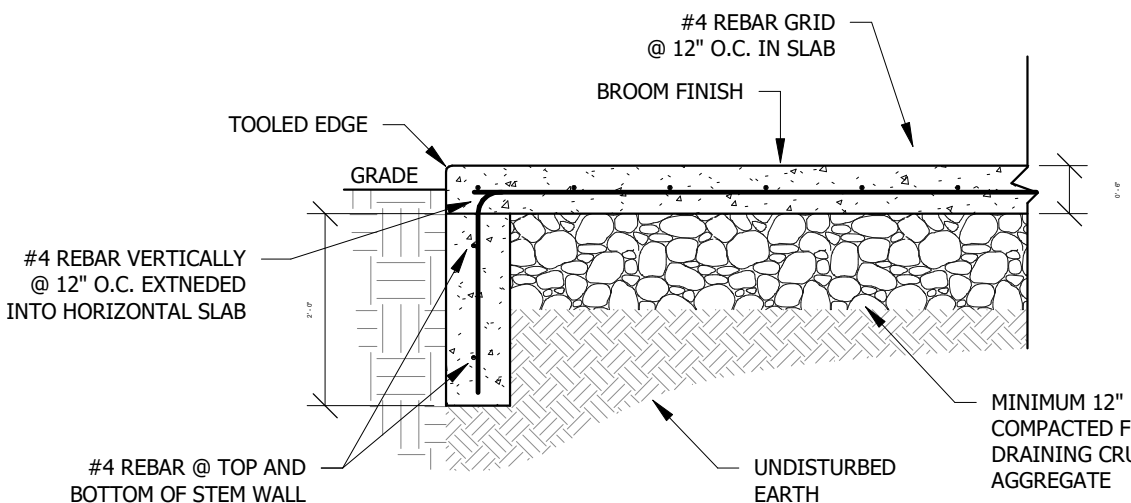
11 BAS - SENSORS

NOT TO SCALE



10 BAS - FURNACE

NOT TO SCALE

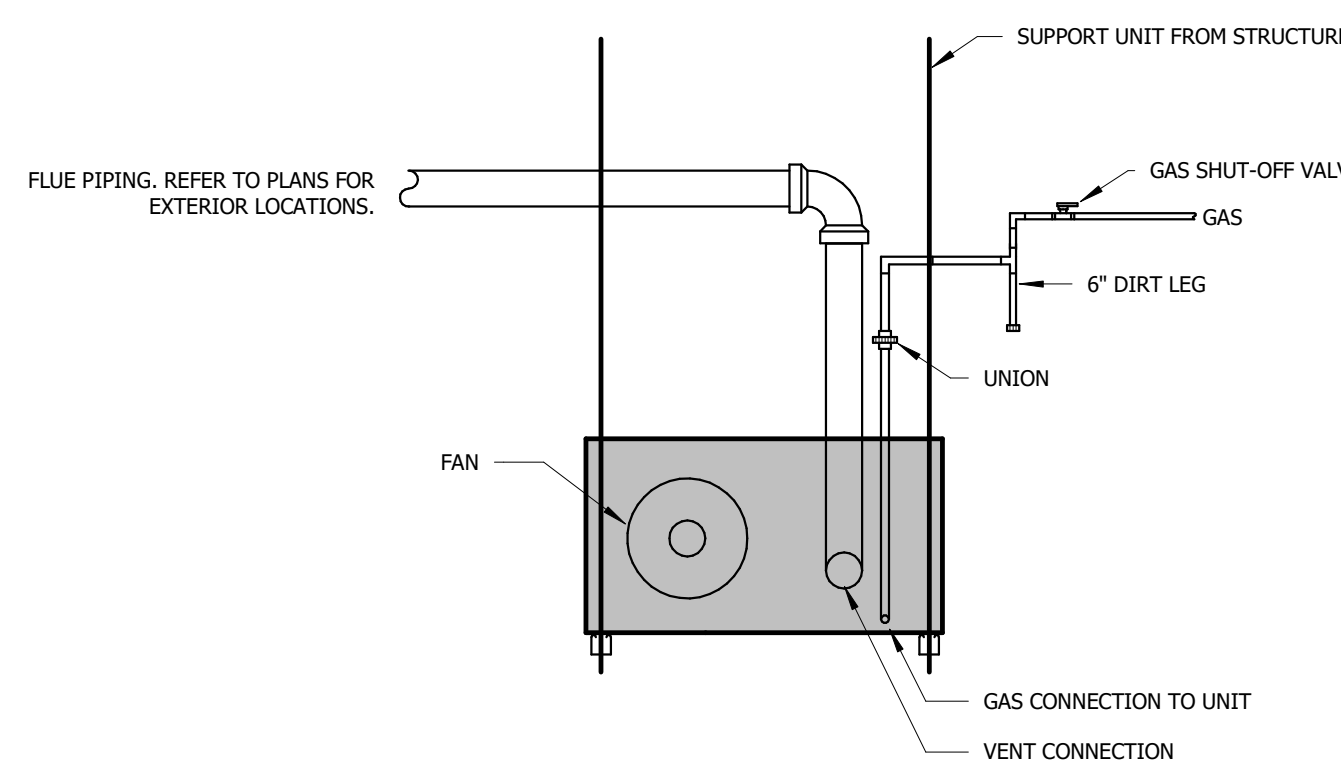


NOTES:

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

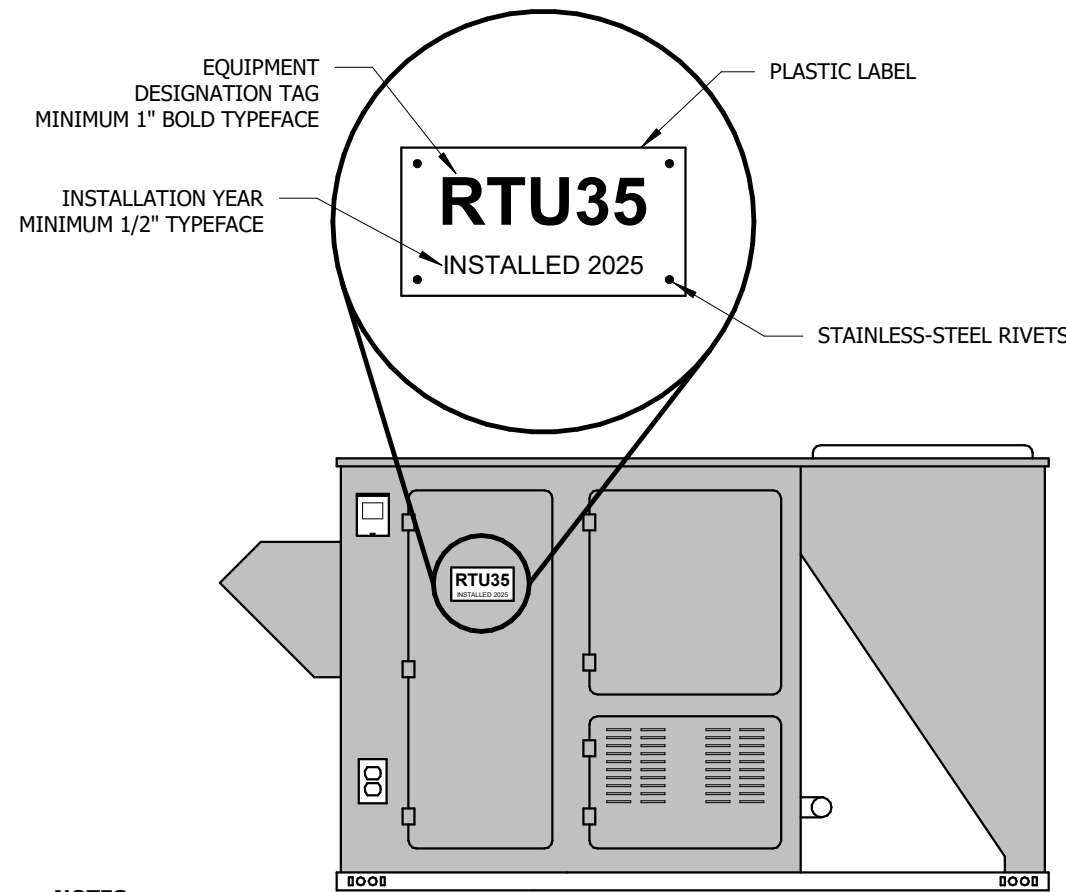
9 CONCRETE PAD

NOT TO SCALE



8 UNIT HEATER

NOT TO SCALE

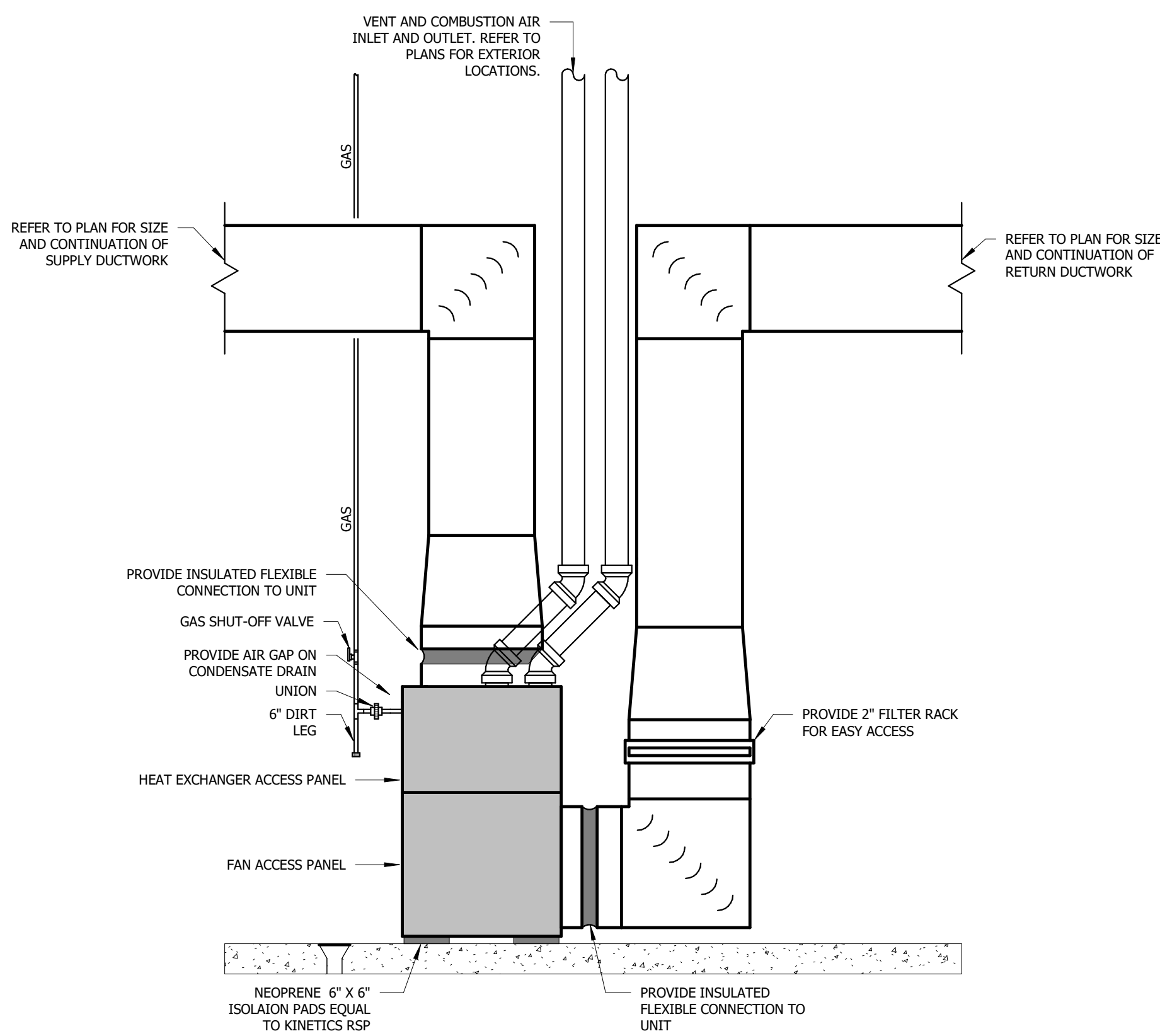


NOTES:

1. EQUIPMENT LABEL SHALL BE MULTILAYER, MULTICOLOR PLASTIC LABELS MINIMUM 1/8" THICK. LABEL SHALL HAVE PREDRILLED HOLES FOR ATTACHMENT HARDWARE.
2. LETTERING SHALL BE MECHANICALLY ENGRAVED. LETTER COLOR SHALL BE WHITE WITH BLACK BACKGROUND.
3. LABEL AND LETTERING SHALL BE RATED FOR EXTERIOR APPLICATIONS WITH EXTENDED DURABILITY AND FADE RESISTANCE.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL EQUIPMENT LABEL REQUIREMENTS.

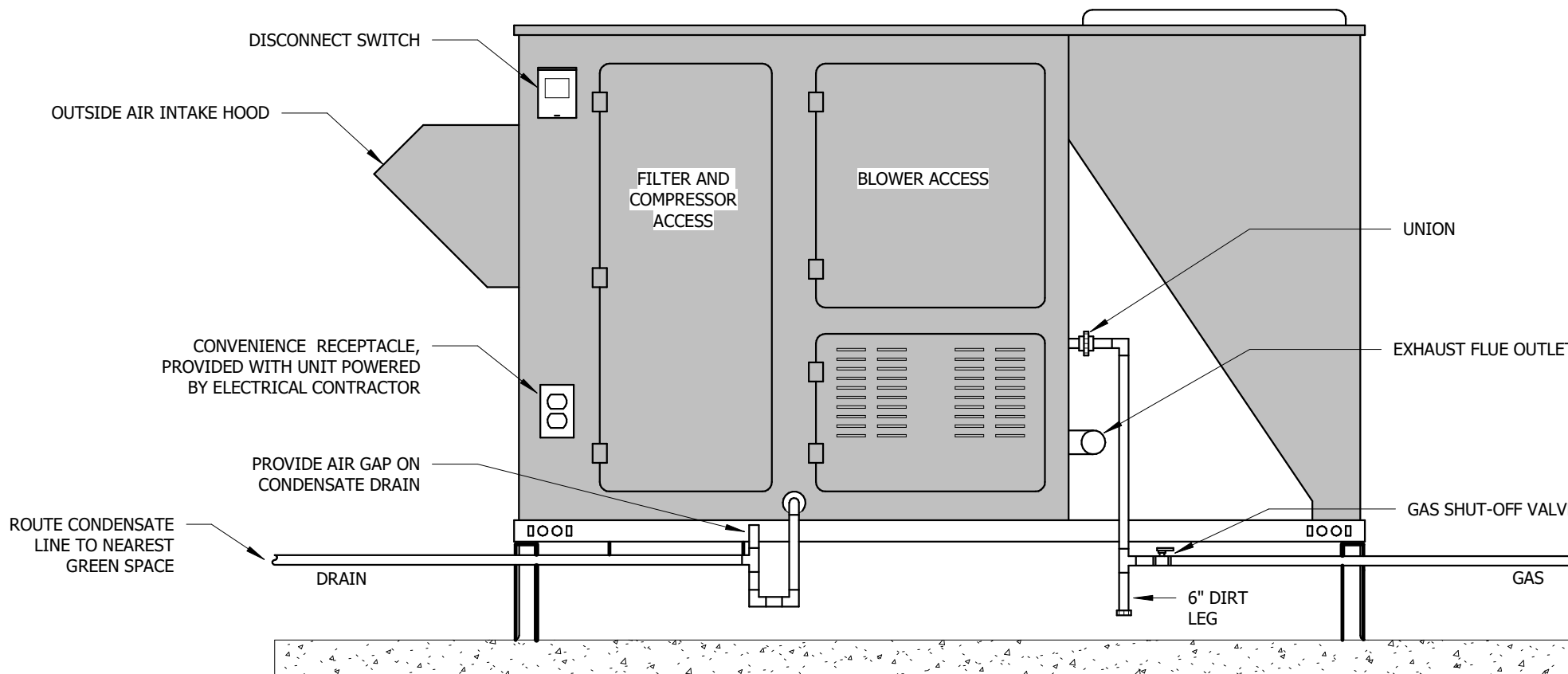
7 EQUIPMENT LABEL

NOT TO SCALE



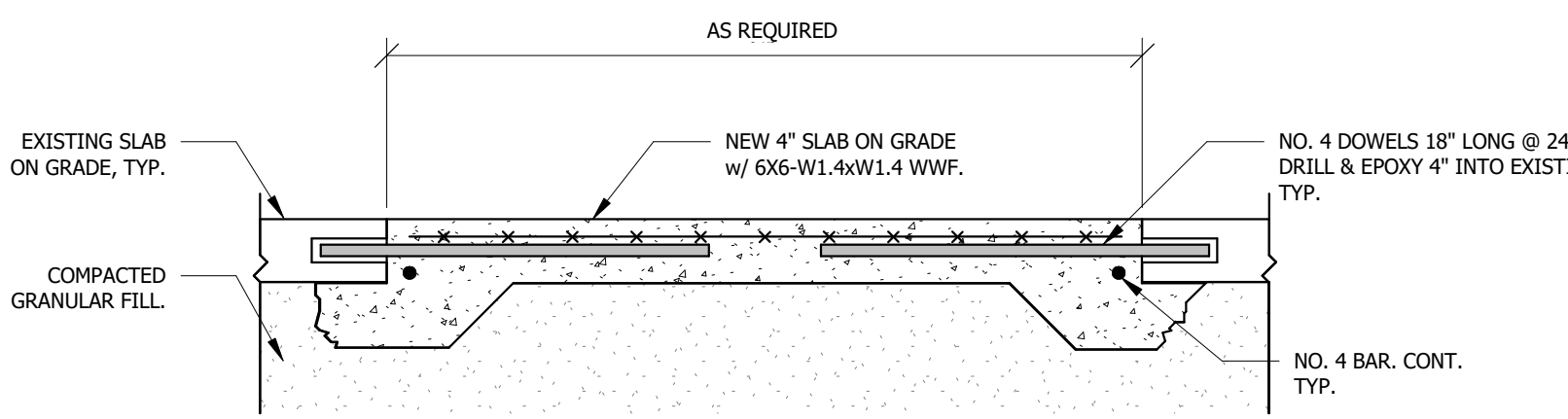
6 FURNACE

NOT TO SCALE



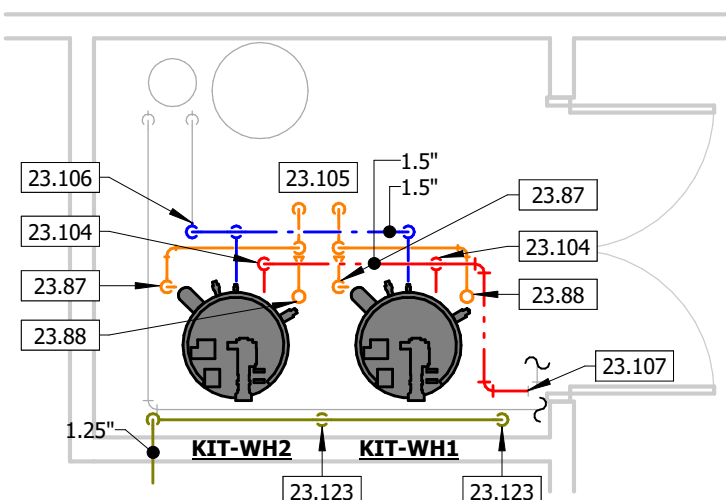
5 GROUND MOUNTED ROOFTOP UNIT

NOT TO SCALE



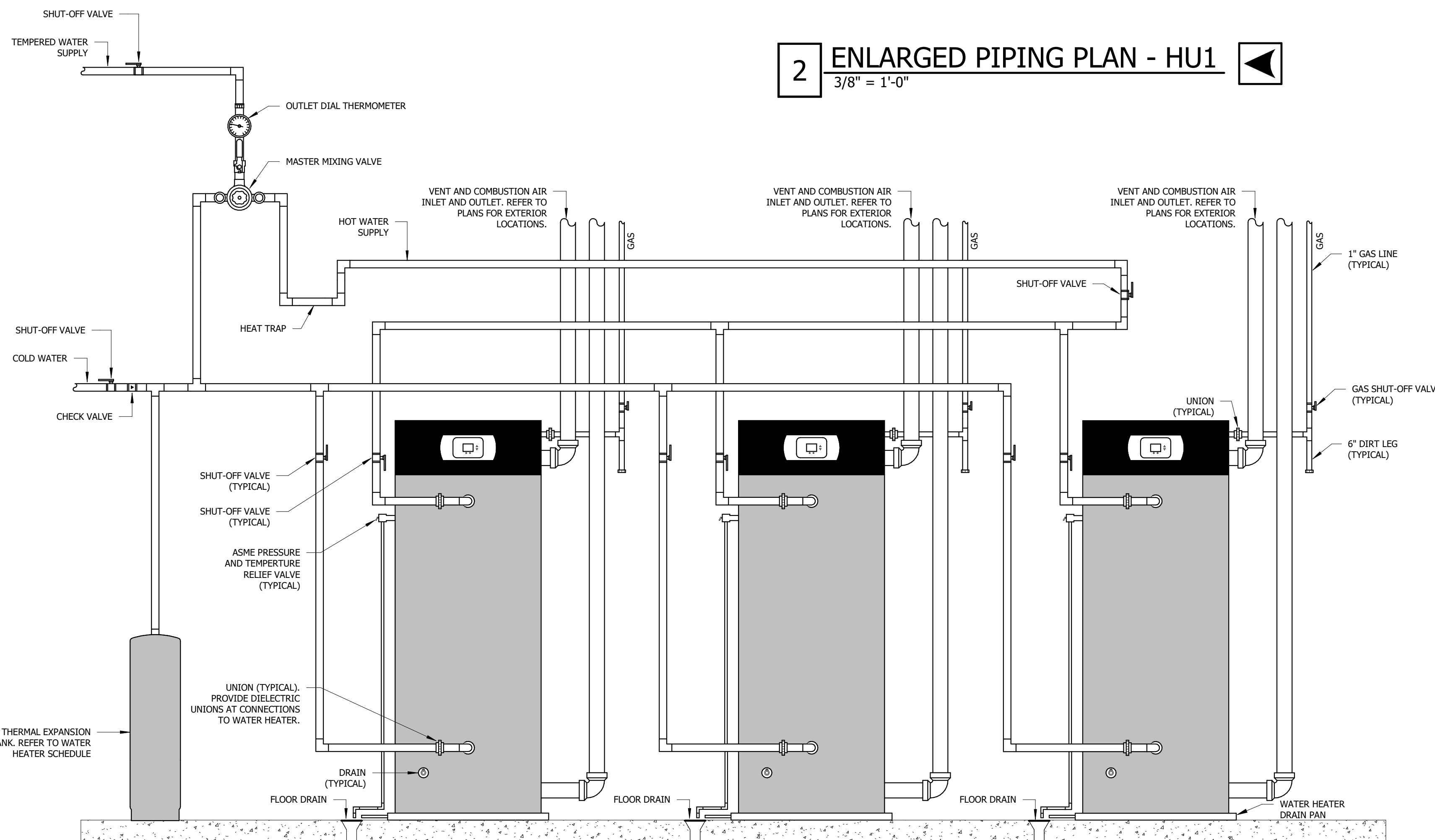
4 SLAB REPAIR DETAIL

NOT TO SCALE



3 ENLARGED PIPING PLAN - CAFETERIA

1/4" = 1'-0"



2 ENLARGED PIPING PLAN - HU1

3/8" = 1'-0"

NOTES:

1. INSTALL WATER HEATERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDED PIPING DIAGRAM. CONTACT ENGINEER IF MANUFACTURER'S RECOMMENDED PIPING CONFIGURATION DIFFERS FROM DETAIL SHOWN ABOVE.
2. PROVIDE THERMOWELLS AND/OR TEST PLUGS PER SPECIFICATION SECTION 22 05 19.

1 THREE GAS WATER HEATERS

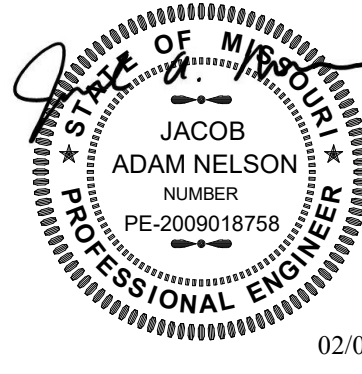
NOT TO SCALE

KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|-----------|--|
| 23.85 | CONNECT NEW 2" COLD WATER TO RELOCATED WATER SOFTENER. |
| 23.86 | 2" COLD AND HOT WATER DOWN TO NEW WATER HEATER. |
| 23.87 | CONNECT 0.5" CONDENSATE DRAIN TO NEW WATER HEATER. |
| 23.88 | 1" DRAIN UP TO WATER HEATER TEMPERATURE AND PRESSURE RELIEF VALVE. PROVIDE AIR GAP. |
| 23.89 | TERMINATE 2" DRAIN AT EXISTING FLOOR DRAIN. |
| 23.90 | CONNECT NEW 2" COLD WATER TO EXISTING COLD WATER PIPING. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.91 | CONNECT NEW 2" TEMPERED WATER TO EXISTING HOT WATER PIPING. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.92 | ROUTE PIPING BEHIND NEW EQUIPMENT. OFFSET SHOWN FOR CLARITY. |
| 23.95 | CONNECT 0.75" NATURAL GAS PIPING TO WATER HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.104 | 1.5" COLD AND HOT WATER DOWN TO NEW WATER HEATER. |
| 23.105 | TERMINATE 1.5" DRAIN AT EXISTING FLOOR DRAIN. |
| 23.106 | CONNECT NEW 1.5" COLD WATER TO EXISTING COLD WATER PIPING. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.107 | CONNECT NEW 1.5" HOT WATER TO EXISTING HOT WATER PIPING. FIELD VERIFY EXISTING SIZE AND LOCATION. |
| 23.108 | CONNECT 0.75" NATURAL GAS PIPING TO NEW FURNACE. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.123 | CONNECT 1" NATURAL GAS PIPING TO NEW WATER HEATER. PROVIDE DIRT LEG, SHUT-OFF VALVE, AND UNION. |
| 23.124 | NEW 2" COLD WATER UP FROM WATER SOFTENER. |
| 23.132 | COORDINATE WATER HEATER AND PIPING INSTALLATION WITH DOOR SWING. |

STATE OF MISSOURI MIKE KEHOE, GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758



02/04/2025

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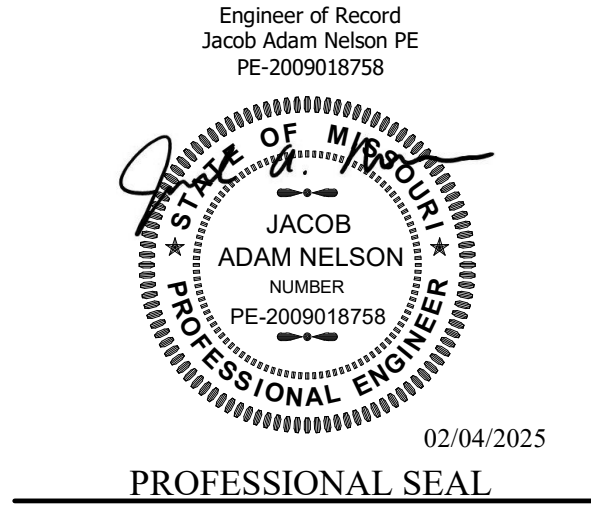
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DRAWN BY: KP
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DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
DETAILS

SHEET NUMBER:

M-301

21 OF 31 SHEETS
02/04/2025



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CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
MECHANICAL
SCHEDULES

SHEET NUMBER:

M-302

22 OF 31 SHEETS
02/04/2025

| ELECTRIC UNIT HEATER SCHEDULE | | | | | | | |
|---|--------------|--------------|------|-------|---------|-------|-------------|
| NOTES: | | | | | | | |
| 1. TAMPER RESISTANT INTEGRAL THERMOSTAT | | | | | | | |
| 2. SURFACE MOUNTED. | | | | | | | |
| 3. FACTORY INSTALLED EQUIPMENT DISCONNECTING MEANS. | | | | | | | |
| TYPE MARK | MANUFACTURER | MODEL NUMBER | MOCP | WATT | VOLTAGE | NOTES | EQUIVALENTS |
| CAN-EH1 | QMARK | EFQ6004 | 6.0 | 240/1 | 120/1 | 1,2,3 | SEE SPECS |
| KIT-EH1 | QMARK | LFK151F | 1.5 | 120/1 | 120/1 | 1,2,3 | SEE SPECS |
| LDR-EH1 | QMARK | LFK151F | 1.5 | 120/1 | 120/1 | 1,2,3 | SEE SPECS |
| LDR-EH2 | QMARK | LFK151F | 1.5 | 120/1 | 120/1 | 1,2,3 | SEE SPECS |
| NAT-EH1 | QMARK | EFQ6008 | 6.0 | 208/1 | 120/1 | 1,2,3 | SEE SPECS |
| PWH-EH1 | QMARK | EFQ6008 | 6.0 | 208/1 | 120/1 | 1,2,3 | SEE SPECS |
| PWH-EH2 | QMARK | LFK151F | 1.5 | 120/1 | 120/1 | 1,2,3 | SEE SPECS |
| REC-EH1 | QMARK | EFQ6004 | 6.0 | 240/1 | 120/1 | 1,2,3 | SEE SPECS |
| REC-EH2 | QMARK | EFQ6004 | 6.0 | 240/1 | 120/1 | 1,2,3 | SEE SPECS |

| WATER HEATER SCHEDULE | | | | | | | | |
|--|--------------|----------------------|---------|-----------------|------------------|---------|-------|-------------|
| NOTES: | | | | | | | | |
| 1. PROVIDE THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-30VC-DD. REFER TO GAS WATER HEATER DETAIL FOR ADDITIONAL REQUIREMENTS. | | | | | | | | |
| 2. DRAIN VALVE WITH THREADED HOSE CONNECTION. | | | | | | | | |
| 3. PRESSURE & TEMPERATURE RELIEF VALVE. | | | | | | | | |
| 4. PROVIDE THERMAL EXPANSION TANK EQUIVALENT TO AMTROL ST-12C-DD. | | | | | | | | |
| TYPE MARK | MANUFACTURER | MODEL | GALLONS | GAS INPUT (MBH) | GAS OUTPUT (MBH) | VOLTAGE | NOTES | EQUIVALENTS |
| HU1-WH1 | RHEEM | GHE100SS-200 | 100 | 199.9 | 194 | 120/1 | 1,2,3 | SEE SPECS |
| HU1-WH2 | RHEEM | GHE100SS-200 | 100 | 199.9 | 194 | 120/1 | 1,2,3 | SEE SPECS |
| HU1-WH3 | RHEEM | GHE100SS-200 | 100 | 199.9 | 194 | 120/1 | 1,2,3 | SEE SPECS |
| HU2-WH1 | RHEEM | GHE100SS-200 | 100 | 199.9 | 194 | 120/1 | 1,2,3 | SEE SPECS |
| HU2-WH2 | RHEEM | GHE100SS-200 | 100 | 199.9 | 194 | 120/1 | 1,2,3 | SEE SPECS |
| HU2-WH3 | RHEEM | GHE100SS-200 | 100 | 199.9 | 194 | 120/1 | 1,2,3 | SEE SPECS |
| KIT-WH1 | RHEEM | GHE100SS-130 | 100 | 130 | 126 | 120/1 | 1,2,3 | SEE SPECS |
| KIT-WH2 | RHEEM | GHE100SS-130 | 100 | 130 | 126 | 120/1 | 1,2,3 | SEE SPECS |
| LDR-WH1 | RHEEM | PROCOB-30 RH63 EC1-1 | 29 | 30 | 27 | 120/1 | 2,3,4 | SEE SPECS |

| MIXING VALVE SCHEDULE | | | | | | | | | |
|------------------------------------|--------------|--------------|----------------|-----------------|-----------------------------|----------------------|--------------------------|-------|-------------|
| NOTES: | | | | | | | | | |
| 1. PROVIDE OUTLET DIAL THERMOMETER | | | | | | | | | |
| TYPE MARK | MANUFACTURER | MODEL NUMBER | INLET DIAMETER | OUTLET DIAMETER | OUTLET TEMPERATURE (DEG. F) | MIN. FLOW RATE (GPM) | MAX. PRESSURE DROP (PSI) | NOTES | EQUIVALENTS |
| HU1-MMV | LEONARD | TM-920-LF-DT | 1.25" | 1.25" | 120 | 1 | 5 | 1 | - |
| HU2-MMV | LEONARD | TM-920-LF-DT | 1.25" | 1.25" | 120 | 1 | 5 | 1 | - |

UNIT HEATER SCHEDULE

NOTES:

1. TWO STAGE THERMOSTAT (FIELD COORDINATE LOCATION WITH OWNER).

2. CHAIN HANGING SET.

3. STAINLESS STEEL FLEXIBLE GAS CONNECTOR.

4. 4-POINT SUSPENSION.

5. FULL FAN GUARD.

6. VERTICAL FLUE PIPING KIT. REFER TO PLANS FOR THE DISTANCE AND TERMINATION REQUIRED. SIZE PER MANUFACTURERS RECOMMENDATIONS FOR DISTANCE.

7. TWO STAGE NATURAL GAS VALVE.

| TYPE MARK | MANUFACTURER | MODEL NUMBER | HEATING | | FLA | MOCP | VOLTAGE | WEIGHT | NOTES | EQUIVALENTS |
|-----------|--------------|--------------|-------------|--------------|-----|------|---------|--------|---------------|-------------|
| | | | INPUT (MBH) | OUTPUT (MBH) | | | | | | |
| CAN-UH1 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| CAN-UH2 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| GYM-UH1 | TRANE | GTNE-120 | 120 | 98.4 | 6.4 | 15 | 120/1 | 110 | 1,2,3,4,5,6,7 | SEE SPECS |
| GYM-UH2 | TRANE | GTNE-120 | 120 | 98.4 | 6.4 | 15 | 120/1 | 110 | 1,2,3,4,5,6,7 | SEE SPECS |
| GYM-UH3 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| HU2-UH1 | TRANE | GTNE-003 | 30 | 24.9 | 3.2 | 15 | 120/1 | 60 | 1,2,3,4,5,6,7 | SEE SPECS |
| KIT-UH1 | TRANE | GTNE-011 | 105 | 86.1 | 6.4 | 15 | 120/1 | 105 | 1,2,3,4,5,6,7 | SEE SPECS |
| KIT-UH2 | TRANE | GTNE-011 | 105 | 86.1 | 6.4 | 15 | 120/1 | 105 | 1,2,3,4,5,6,7 | SEE SPECS |
| KIT-UH3 | TRANE | GTNE-011 | 105 | 86.1 | 6.4 | 15 | 120/1 | 105 | 1,2,3,4,5,6,7 | SEE SPECS |
| KIT-UH4 | TRANE | GTNE-011 | 105 | 86.1 | 6.4 | 15 | 120/1 | 105 | 1,2,3,4,5,6,7 | SEE SPECS |
| LDR-UH1 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| LDR-UH2 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| MAT-UH1 | TRANE | GTNE-011 | 105 | 86.1 | 6.4 | 15 | 120/1 | 105 | 1,2,3,4,5,6,7 | SEE SPECS |
| MAT-UH2 | TRANE | GTNE-011 | 105 | 86.1 | 6.4 | 15 | 120/1 | 105 | 1,2,3,4,5,6,7 | SEE SPECS |
| PRP-UH1 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| PRP-UH2 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| PRP-UH3 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| PWH-UH1 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| PWH-UH2 | TRANE | GTNE-003 | 30 | 24.9 | 3.2 | 15 | 120/1 | 60 | 1,2,3,4,5,6,7 | SEE SPECS |
| RCY-UH1 | TRANE | GTNE-004 | 45 | 37.4 | 3.2 | 15 | 120/1 | 65 | 1,2,3,4,5,6,7 | SEE SPECS |
| RCY-UH2 | TRANE | GTNE-003 | 30 | 24.9 | 3.2 | 15 | 120/1 | 60 | 1,2,3,4,5,6,7 | SEE SPECS |

| ELECTRIC DUCT HEATER SCHEDULE | | | | | | | | | | | |
|--|--------------|--------------|-------------------------|---------------|-----------|--------------|-----------------------|------|------|-------------|-------------|
| NOTES: | | | | | | | | | | | |
| 1. CONTROL PANEL DISCONNECTING SWITCH, AND FULL BREAK CONTACTOR. | | | | | | | | | | | |
| 2. CONTROL TRANSFORMER. | | | | | | | | | | | |
| 3. AUTOMATIC THERMAL CUTOUTS. | | | | | | | | | | | |
| 4. SCR CONTROL. | | | | | | | | | | | |
| 5. PROVIDE MAGNETIC CONTACTOR. | | | | | | | | | | | |
| 6. PROGRAMMABLE 7-DAY THERMOSTAT. | | | | | | | | | | | |
| TYPE | MANUFACTURER | MODEL NUMBER | AIRFLOW VOLUME (CFM) | AIR VEL (FPM) | SIZE (WH) | HEATING (KW) | ELECTRICAL VOLTAGE | MCA | MOCP | NOTES | EQUIVALENTS |
| VIS-EDH1 | NEPTRONIC | DF-C100V | 4000 | 600 | 48" x 20" | 28.0 | 208/3 | 77.7 | 100 | 1,2,3,4,5,6 | SEE SPECS |

AIR DEVICE SCHEDULE

NOTES:

1.

GRILLE/DIFFUSER NECK SHALL BE SAME SIZE AS BRANCH DUCTWORK UNLESS NOTED OTHERWISE ON PLAN.

2.

DIFFUSER DISCHARGE AIR PATTERN SHALL BE 4-WAY UNLESS NOTED BY DIRECTION ON PLANS.

3.

GRILLE/DIFFUSER SHALL BE FIELD PAINTABLE.

4.

PROVIDE PLASTER FRAME ADAPTOR FOR LAYIN INTO GYPSUM CEILING.

5.

COMPLIANT WITH ANTI-LIGATURE BUILDING CODE REGULATIONS. PROVIDE SECURITY BARS AND SHALL BE SUICIDE DETERRENT.

6.

PROVIDE FACE COVER EQUIVALENT TO KRUEGER L300.

7.

FASTENERS SHALL BE TAMPER RESISTANT.

| TYPE MARK | SYSTEM | MANUFACTURER | MODEL NUMBER | MODULE SIZE | FRAME | FINISH | DAMPER | MAX NC RATING | THROW (FT) | EXTERNAL STATIC (WC) | NOTES | EQUIVALENTS |
|-----------|--------|--------------|--------------|-------------|-------|--------|--------|---------------|------------|----------------------|---------|--------------|
| R01 | RETURN | KRUEGER | S80 | SEE PLAN | GYP | WHITE | - | 30 | - | 0.08" | 3,4,6,7 | TITUS, PRICE |
| S01 | SUPPLY | KRUEGER | 880 | SEE PLAN | GYP | WHITE | - | 30 | - | 0.1" | 1,3,4,7 | TITUS, PRICE |
| S02 | SUPPLY | KRUEGER | 1360 | SEE PLAN | GYP | WHITE | - | 30 | - | 0.1" | 1,3,4,7 | TITUS, PRICE |
| S03 | SUPPLY | KRUEGER | 1350 | SEE PLAN | GYP | WHITE | - | 30 | - | 0.1" | 1,5,7 | TITUS, PRICE |

| FURNACE SCHEDULE | | | | | | | | | | | | | | |
|--|--------------|--------------|------------------|-------------------|----------------------|-----------------|---------------------|----------------------|----------------|-----|------|---------|-----------|-------------|
| NOTES: | | | | | | | | | | | | | | |
| 1. STAINLESS STEEL HEAT EXCHANGER. | | | | | | | | | | | | | | |
| 2. PROVIDE ACCESSIBLE FILTER RACK AND 1" FILTERS WITH MINIMUM MERV 8 RATING. | | | | | | | | | | | | | | |
| 3. COMBUSTION INTAKE AND EXHAUST CONCENTRIC ROOF TERMINATION KIT. | | | | | | | | | | | | | | |
| 4. 2-STAGE GAS HEAT WITH CVM BLOWER MOTOR. | | | | | | | | | | | | | | |
| 5. PROVIDE TERMINAL STRIP FOR INTEGRATION INTO BAS SYTEM. COORDINATE REQUIREMENTS WITH BAS CONTRACTOR. | | | | | | | | | | | | | | |
| 6. PROVIDE MANUFACTURERS 7 DAY PROGRAMMABLE THERMOSTAT. | | | | | | | | | | | | | | |
| TYPE MARK | MANUFACTURER | MODEL NUMBER | SUPPLY AIR (CFM) | OUTSIDE AIR (CFM) | EXTERNAL STATIC (WC) | ENTERING AIR DB | HEATING INPUT (MBH) | HEATING OUTPUT (MBH) | LEAVING AIR DB | MCA | MOCP | VOLTAGE | NOTES | EQUIVALENTS |
| HU1-F1 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU1-F2 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU1-F3 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU1-F4 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU1-F5 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU2-F1 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU2-F2 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU2-F3 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU2-F4 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| HU2-F5 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,5 | SEE SPECS |
| REC-F1 | TRANE | 59X2D120 | 1900 | - | 0.5" | 60 | 120 | 115 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,6 | SEE SPECS |
| SEG-F1 | TRANE | 59X2D080 | 1200 | - | 0.5" | 60 | 80 | 77 | 90 | 6.0 | 15 | 120/1 | 1,2,3,4,6 | SEE SPECS |

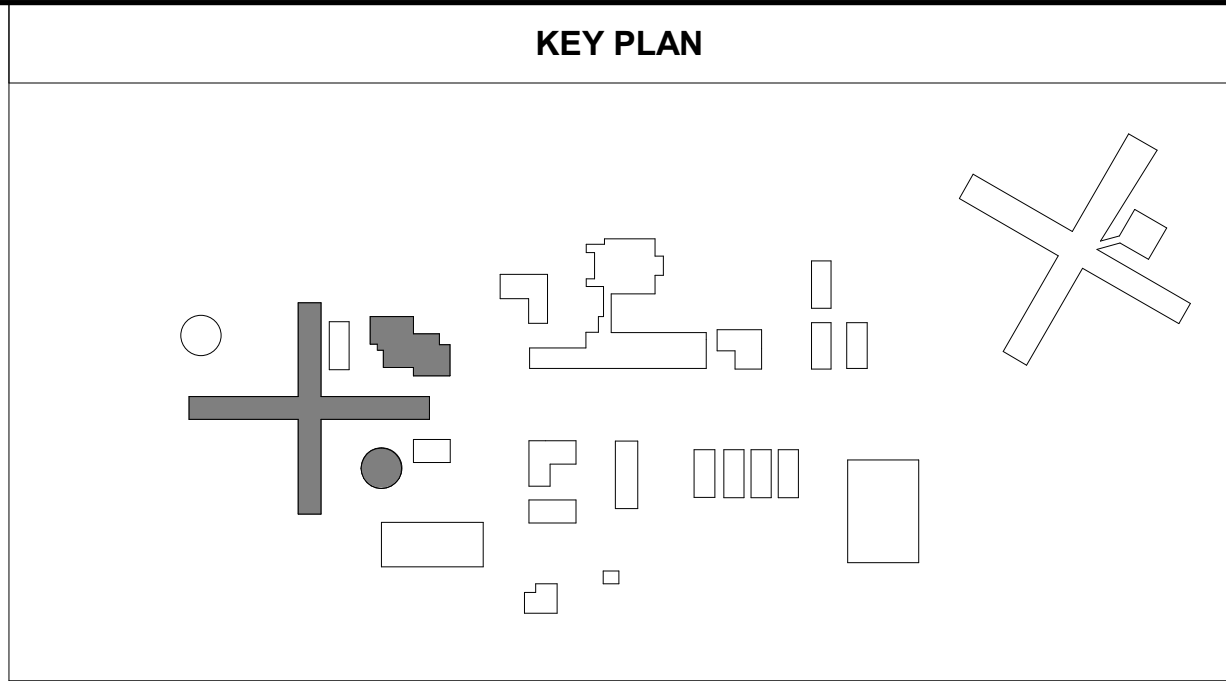
| ROOFTOP UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|--------------|------------|---------|-------------------|--------------------|-----------|-------------------------|--------------------|--------------------|-------------------|----------------|-------------------------------|----------------------------|----------------------------|-------------------|-----|-------|-----------|-----------|-------------|
| NOTES: | | | | | | | | | | | | | | | | | | | | | |
| 1. FILTER RACK. PROVIDE A MINIMUM MERV 8 FILTER. | | | | | | | | | | | | | | | | | | | | | |
| 2. CRANKCASE HEATER. | | | | | | | | | | | | | | | | | | | | | |
| 3. SEE SPECS FOR WARRANTY INFORMATION. | | | | | | | | | | | | | | | | | | | | | |
| 4. CONDENSER COIL HAIL GUARDS. | | | | | | | | | | | | | | | | | | | | | |
| 5. OUTSIDE AIR HOOD WITH 0-100% MODULATING OUTDOOR AIR ECONOMIZER. | | | | | | | | | | | | | | | | | | | | | |
| 6. FACTORY MOUNTED DISCONNECTS. | | | | | | | | | | | | | | | | | | | | | |
| 7. STAINLESS STEEL HEAT EXCHANGER WITH MINIMUM OF FOUR STAGES OF GAS HEAT. | | | | | | | | | | | | | | | | | | | | | |
| 8. FACTORY INSTALLED, FACTORY POWERED GFCI RECEPTACLE | | | | | | | | | | | | | | | | | | | | | |
| 9. PROVIDE SPACE SENSOR FOR TEMPERATURE AND HUMIDITY CONTROL. UNIT SHALL BE EQUIPPED WITH BACNET CONTROLLER FOR FUTURE CONNECTION INTO BAS SYSTEM. | | | | | | | | | | | | | | | | | | | | | |
| 10. POWDERED EXHAUST. | | | | | | | | | | | | | | | | | | | | | |
| 11. THREE STAGES OF COOLING WITH VARIABLE SPEED FANS TO MATCH COOLING LOAD. | | | | | | | | | | | | | | | | | | | | | |
| 12. HORIZONTAL DISCHARGE KIT. UNIT SHALL BE INSTALLED ON 14" ROOF CURB AND NEW CONCRETE PAD. | | | | | | | | | | | | | | | | | | | | | |
| 13. HOT GAS REHEAT COIL TO MAINTAIN 55% RH. | | | | | | | | | | | | | | | | | | | | | |
| TYPE CODE | MANUFACTURER | MODEL NUMBER | EER (SEER) | TONNAGE | SUPPLY AIR CFM | OUTSIDE AIR CFM | FAN (BHP) | EXTERNAL STATIC (WC) | ENTERING AIR DB | ENTERING AIR WB | SENSIBLE (MBH) | TOTAL (MBH) | HEATING ENTERING AIR DB | HEATING OUTPUT (MBH) | HEATING OUTPUT (MBH) | LEAVING AIR DB | MCA | H2OP | VOLTAGE | NOTES | EQUIVALENTS |
| RTU-KTJ1 | TRANE | YSX180 | 10.8 | 15 | 6000 | 1000 | (21.3) | 0.72" | 78.2 | 64.4 | 144.8 | 385.8 | 60 | 100 | 95 | 90.3 | 125 | 208/3 | 1 THRU 13 | SEE SPECS | |

4 DEMO ELECTRICAL PLAN - MAINTENANCE
1/8" = 1'-0"

2 DEMO ELECTRICAL PLAN - HU1 - ENLARGED
1/8" = 1'-0"

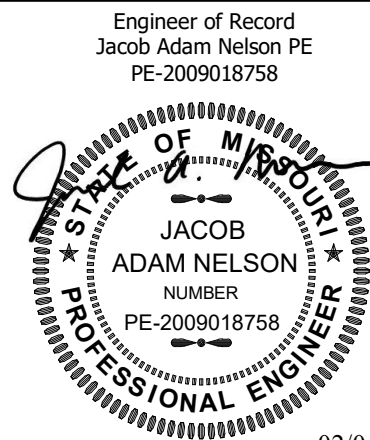
3 DEMO ELECTRICAL PLAN - EDUCATION
1/8" = 1'-0"

1 DEMO ELECTRICAL PLAN - HOUSING UNIT ONE
1/16" = 1'-0"

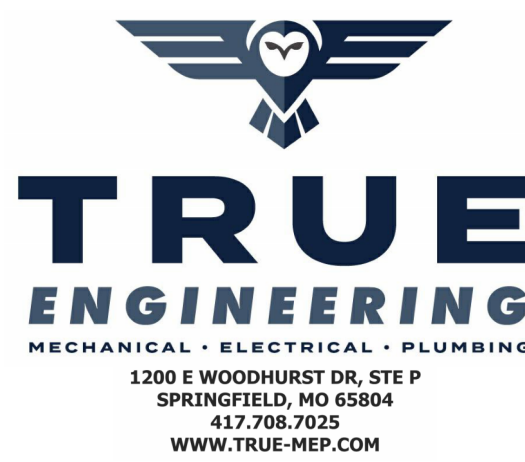


| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | KEYNOTE TEXT |
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.04 | EXISTING GE 120/208-VOLT, 3-PHASE PANELBOARD. |
| 26.07 | EXISTING SQUARE D 120/208-VOLT, 3-PHASE PANELBOARD. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |
| D26.01 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND ASSOCIATED CONDUIT AND CONDUCTORS BACK TO PANELBOARD. |
| D26.02 | REMOVE EXISTING CEILING MOUNTED LIGHT FIXTURE FOR CEILING REMOVAL. LIGHT FIXTURE SHALL BE REINSTALLED. REFER TO IMPROVEMENT PLANS FOR FURTHER REQUIREMENTS. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



02/04/2025
PROFESSIONAL SEAL



TRUE ENGINEERING GROUP, LLC
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DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

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CHECKED BY: JN
DESIGNED BY: JK

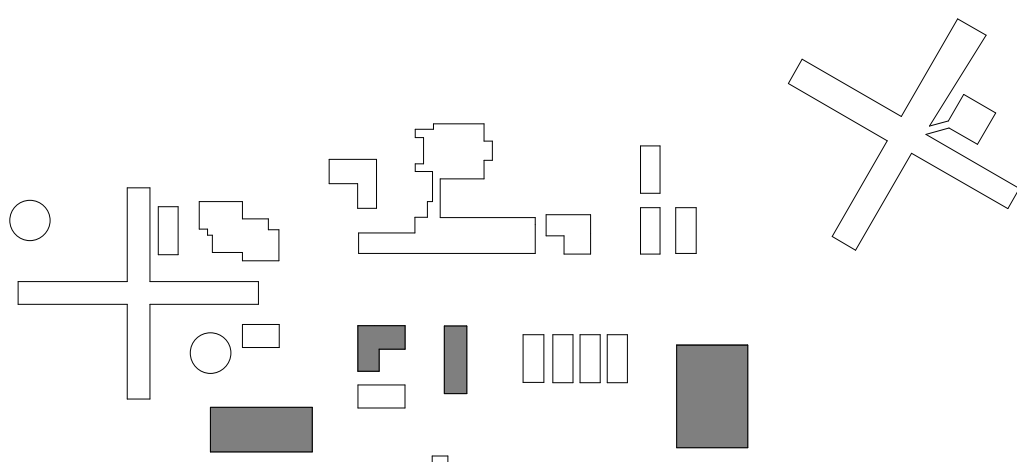
SHEET TITLE:
DEMO
ELECTRICAL PLAN

SHEET NUMBER:

E-001

23 OF 31 SHEETS
02/04/2025

KEY PLAN



KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|-----------|--|
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.10 | EXISTING GE, 120/208-VOLT, 3-PHASE, 200-AMP PANELBOARD. |
| 26.15 | EXISTING PENNSYLVANIA SL12, 120/208-VOLT, SINGLE PHASE, 125-AMP PANELBOARD. |
| 26.17 | EXISTING EATON CUTLER-HAMMER SAFETY BREAKER LOAD CENTER, 120/240-VOLT, SINGLE PHASE, 200-AMP PANELBOARD. |
| 26.19 | EXISTING ITE, 120/208-VOLT, 3-PHASE, 400-AMP SWITCHBOARD. |
| 26.20 | EXISTING ITE CDP-7, 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |
| D26.01 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND ASSOCIATED CONDUIT AND CONDUCTORS BACK TO PANELBOARD. |
| D26.03 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND PREPARE WIRING FOR NEW EQUIPMENT. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |
| D26.04 | REMOVE EXISTING ELECTRICAL CONNECTION TO REMOVED STEAM COIL AND ASSOCIATED CONDUIT AND CONDUCTORS BACK TO PANELBOARD. ELECTRICAL CONNECTION TO AIR HANDLER SHALL REMAIN. |

STATE OF MISSOURI
MIKE KEHOE,
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Engineer of Record
Jacob Adam Nelson PE
PE-2009018758

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JACOB
ADAM NELSON
NUMBER
PE-2009018758

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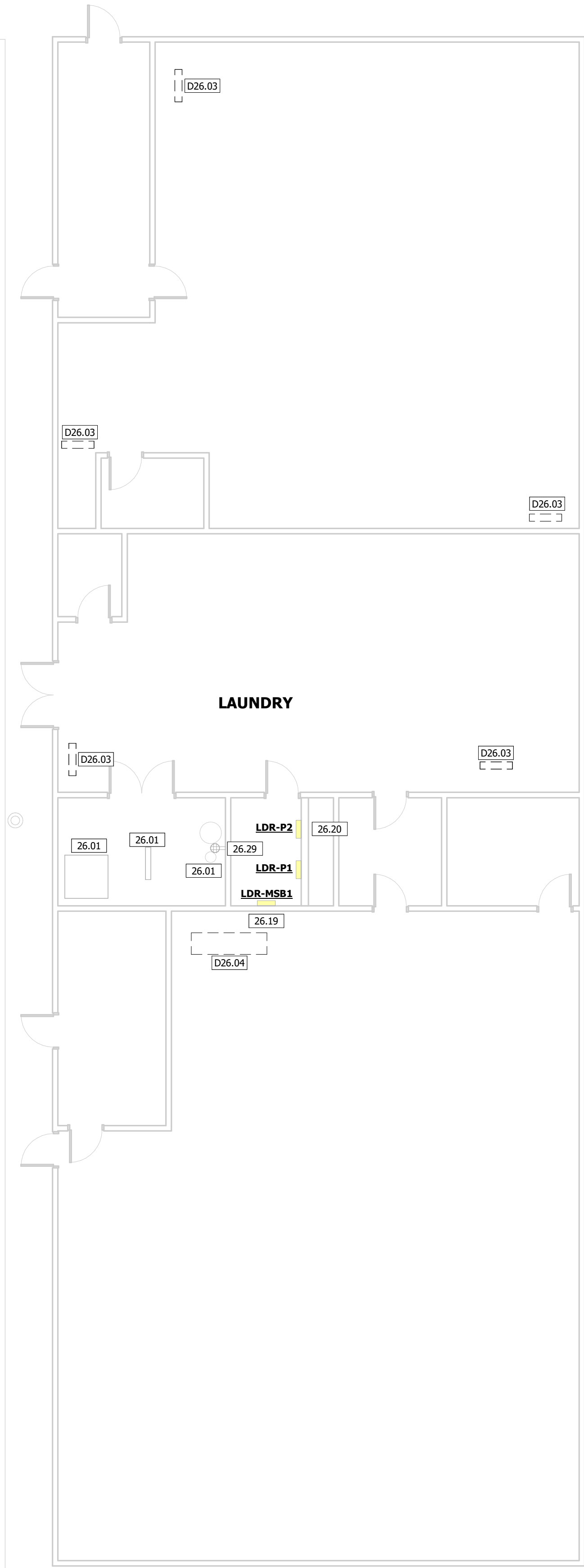
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24 OF 31 SHEETS
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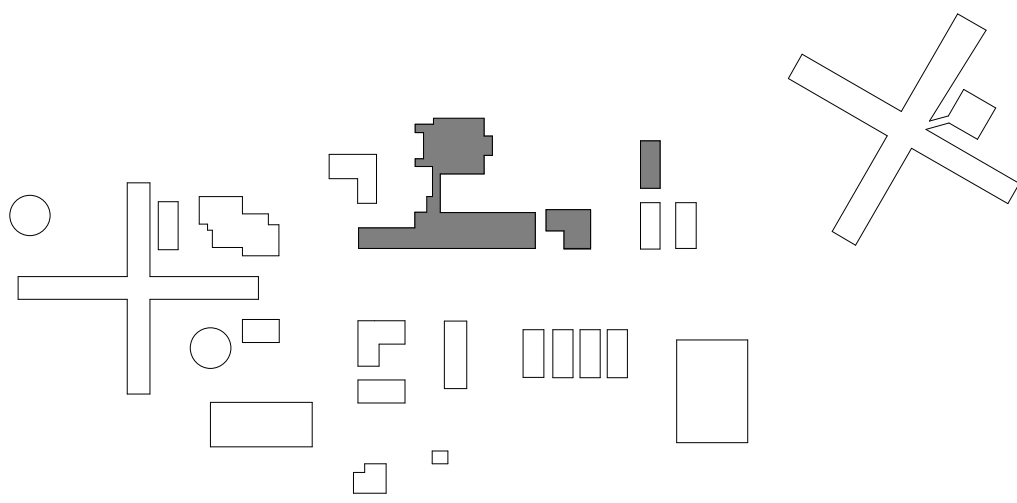
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DEMO
ELECTRICAL PLAN

SHEET NUMBER:

E-003

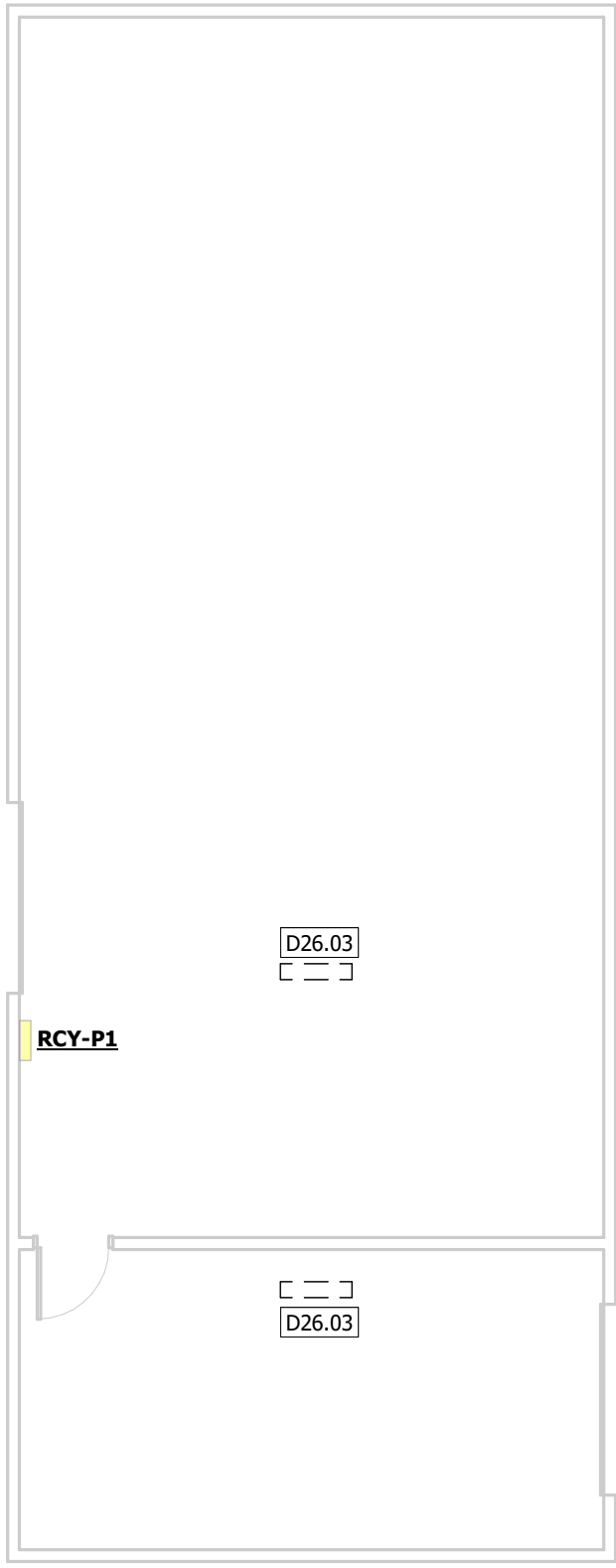
25 OF 31 SHEETS
02/04/2025

KEY PLAN

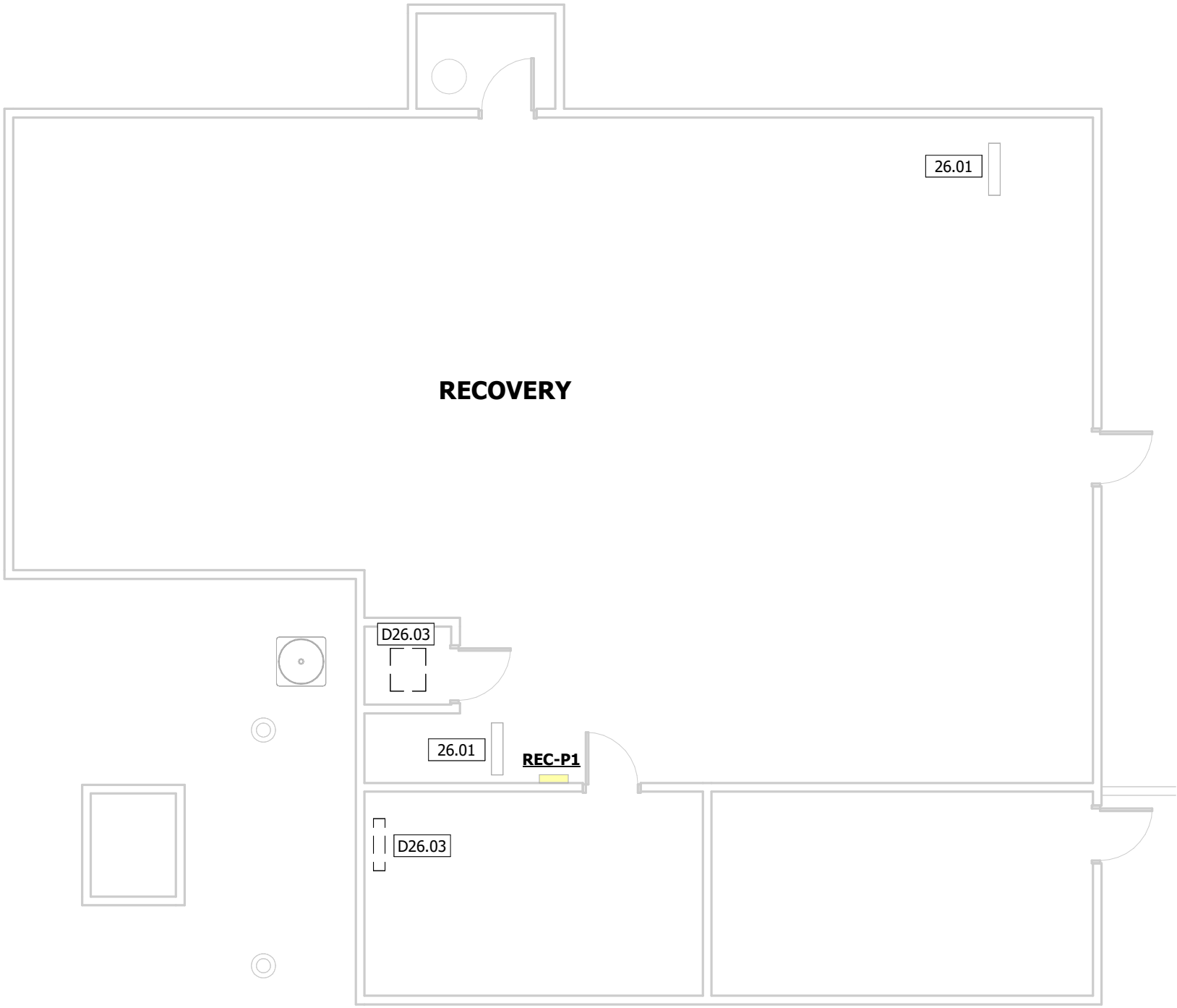


KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|-----------|---|
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.23 | EXISTING SQUARE D NO. 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |
| D26.01 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND ASSOCIATED CONDUIT AND CONDUCTORS BACK TO PANELBOARD. |
| D26.03 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND PREPARE WIRING FOR NEW EQUIPMENT. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |



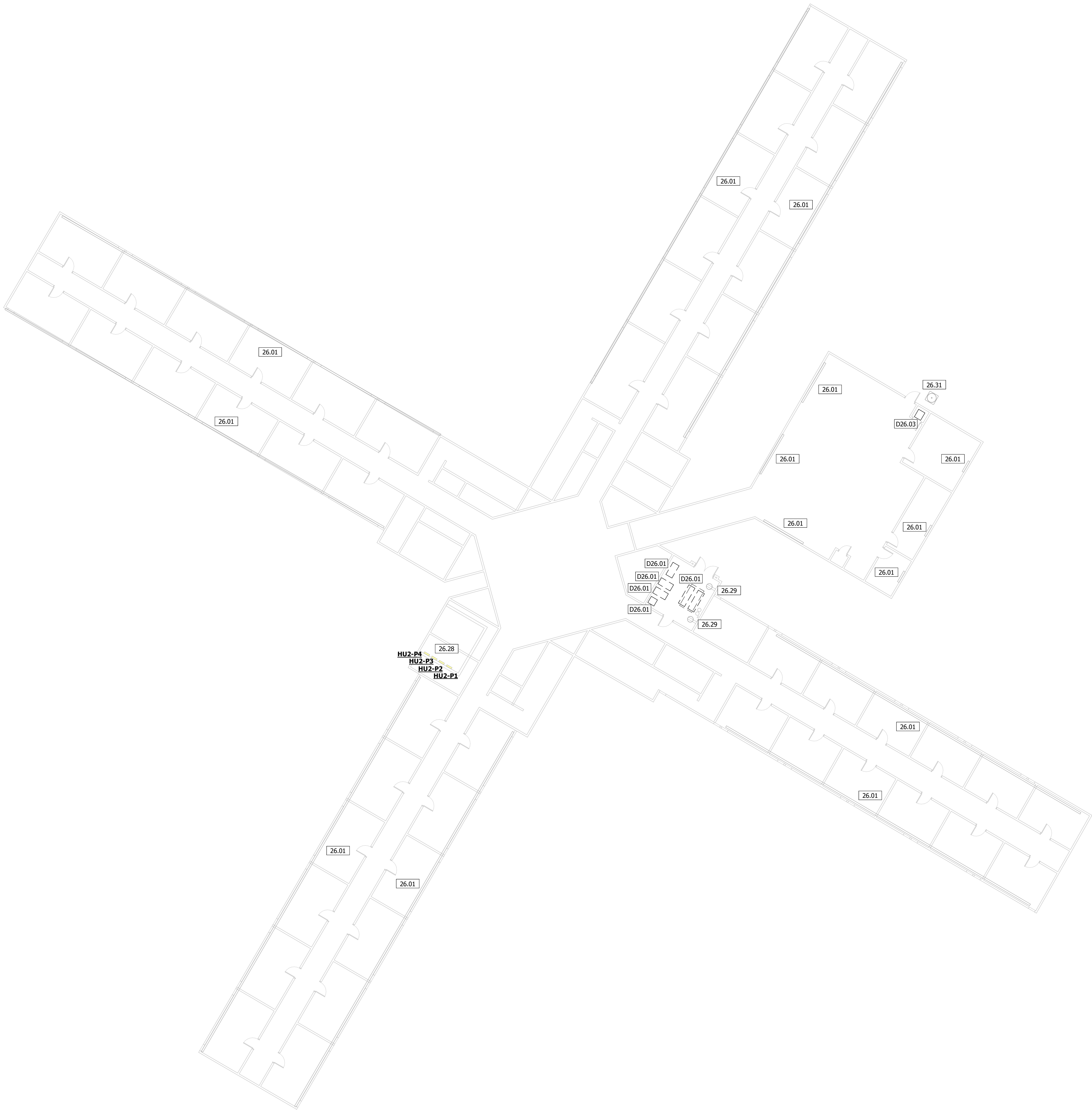
3 DEMO ELECTRICAL PLAN - RECYCLING
1/8" = 1'-0"



2 DEMO ELECTRICAL PLAN - RECOVERY
1/8" = 1'-0"



1 DEMO ELECTRICAL PLAN - CAFETERIA
1/8" = 1'-0"



| KEY PLAN | |
|----------------|---|
| | |
| KEYNOTE LEGEND | |
| KEY VALUE | KEYNOTE TEXT |
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.28 | EXISTING ITE CDP-7, 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |
| 26.31 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| D26.01 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND ASSOCIATED CONDUIT AND CONDUCTORS BACK TO PANELBOARD. |
| D26.03 | REMOVE EXISTING ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND PREPARE WIRING FOR NEW EQUIPMENT. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS. |

STATE OF MISSOURI
MIKE KEHOE,
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PE-2009018758

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SHEET NUMBER:

E-004

26 OF 31 SHEETS
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DESIGNED BY: JK

SHEET TITLE:
ELECTRICAL PLAN

SHEET NUMBER:

E-101

27 OF 31 SHEETS
02/04/2025

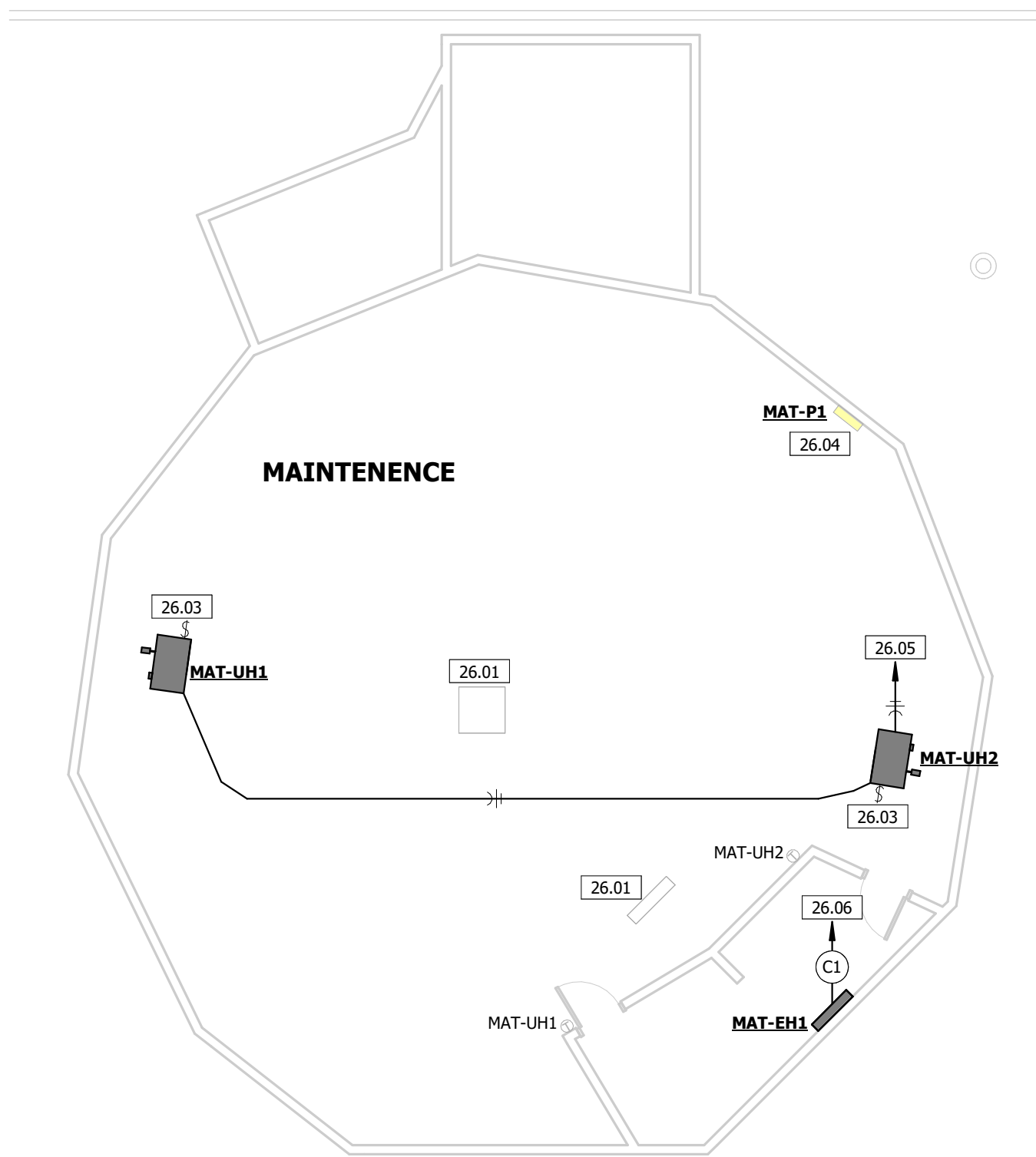
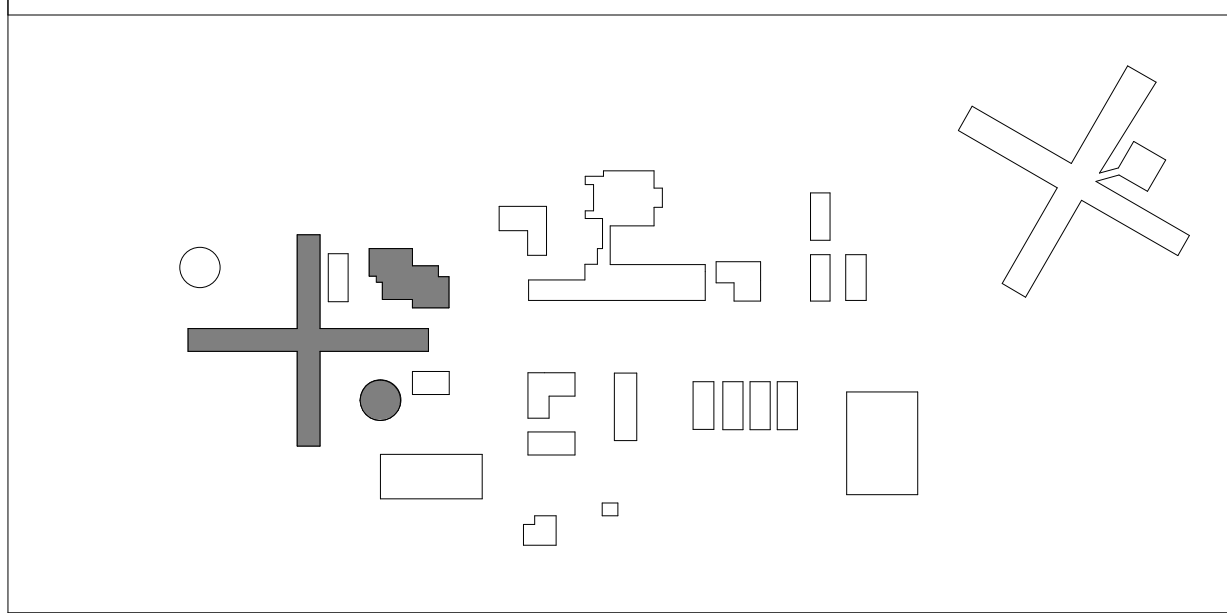
CONDUIT AND CONDUCTORS

| KEY VALUE | SIZE AND QUANTITY |
|-----------|---|
| C1 | (2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT. |
| C2 | (3) #1 AND (1) #6 GROUND IN 1.5" CONDUIT. |

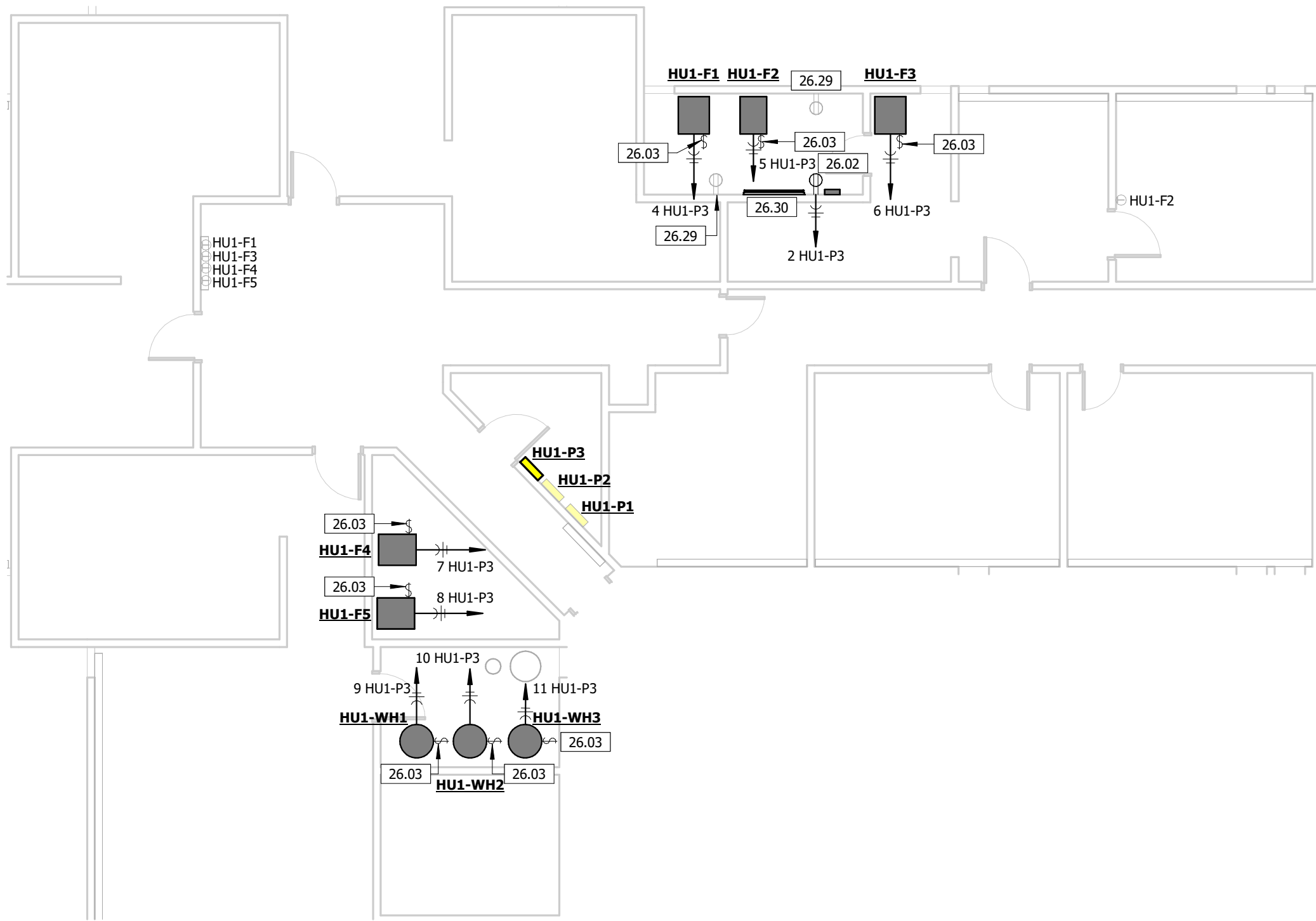
KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|-----------|--|
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.02 | PROVIDE ELECTRICAL CONNECTION TO BAS PANEL. COORDINATE LOCATION AND REQUIREMENTS WITH BAS CONTRACTOR. |
| 26.03 | PROVIDE 120/1-VOLT SINGLE POLE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT. |
| 26.04 | EXISTING GE 120/208-VOLT, 3-PHASE PANELBOARD. |
| 26.05 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD MAT-P1. PROVIDE NEW 120-VOLT, SINGLE POLE, 20-AMP CIRCUIT BREAKER. |
| 26.06 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD MAT-P1. PROVIDE NEW 208-VOLT, TWO POLE, 40-AMP CIRCUIT BREAKER. |
| 26.07 | EXISTING SQUARE D 120/208-VOLT, 3-PHASE PANELBOARD. |
| 26.08 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD EDU-P2. PROVIDE NEW 208-VOLT, THREE POLE, 125-AMP CIRCUIT BREAKER. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |
| 26.30 | REINSTALL EXISTING LIGHT FIXTURE ON WALL. RECONNECT TO EXISTING LIGHTING CIRCUIT. |
| 26.32 | FACTORY WIRED, FACTORY POWERED CONVENIENCE RECEPTACLE. |

KEY PLAN



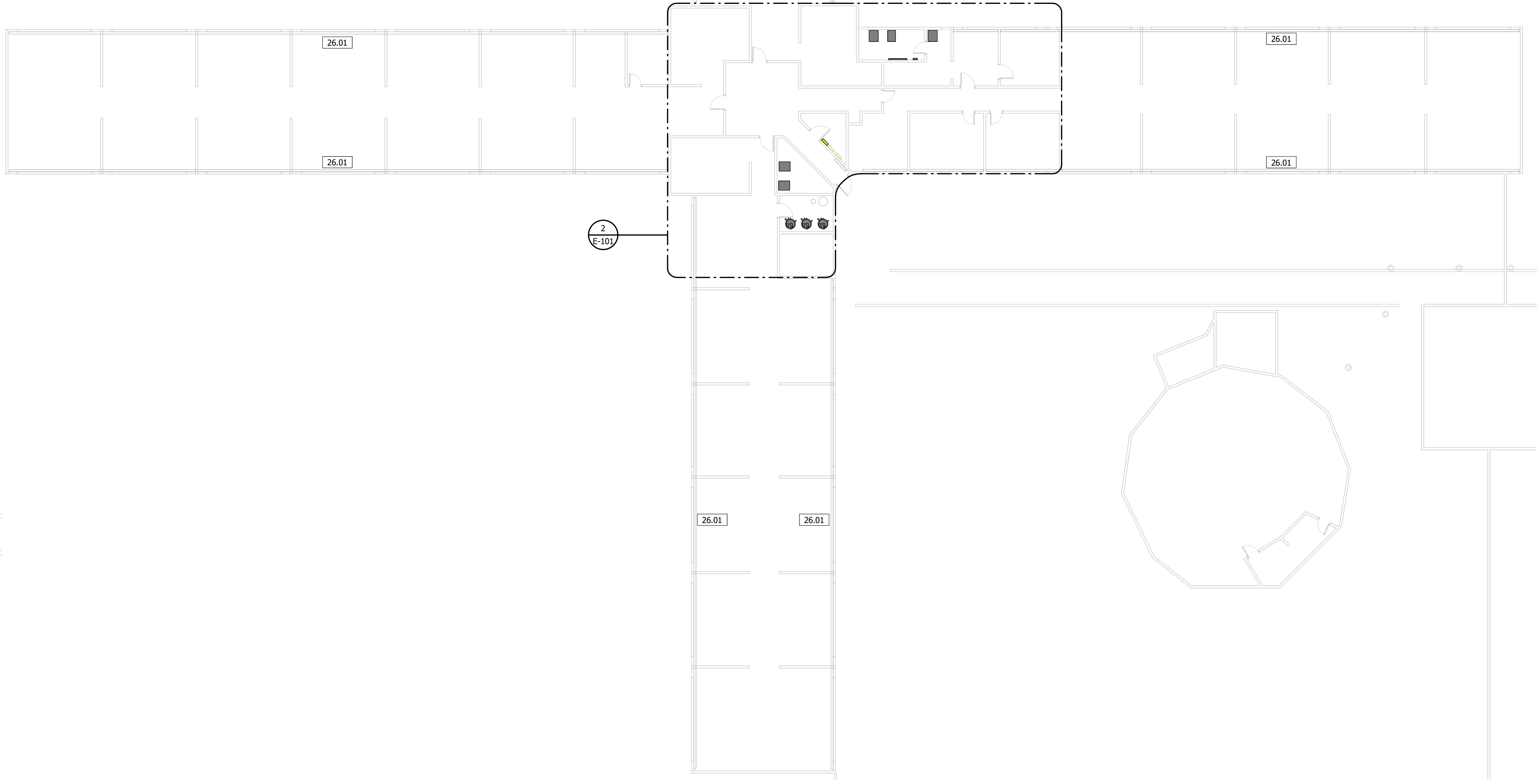
4 ELECTRICAL PLAN - MAINTENANCE
1/8" = 1'-0"



2 ELECTRICAL PLAN - HU1 - ENLARGED
1/8" = 1'-0"



3 ELECTRICAL PLAN - EDUCATION
1/8" = 1'-0"



1 ELECTRICAL PLAN - HOUSING UNIT ONE
1/16" = 1'-0"



TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-301600702

OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

OSARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 02/04/2025

CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
ELECTRICAL PLAN

SHEET NUMBER:

E-102

28 OF 31 SHEETS
02/04/2025

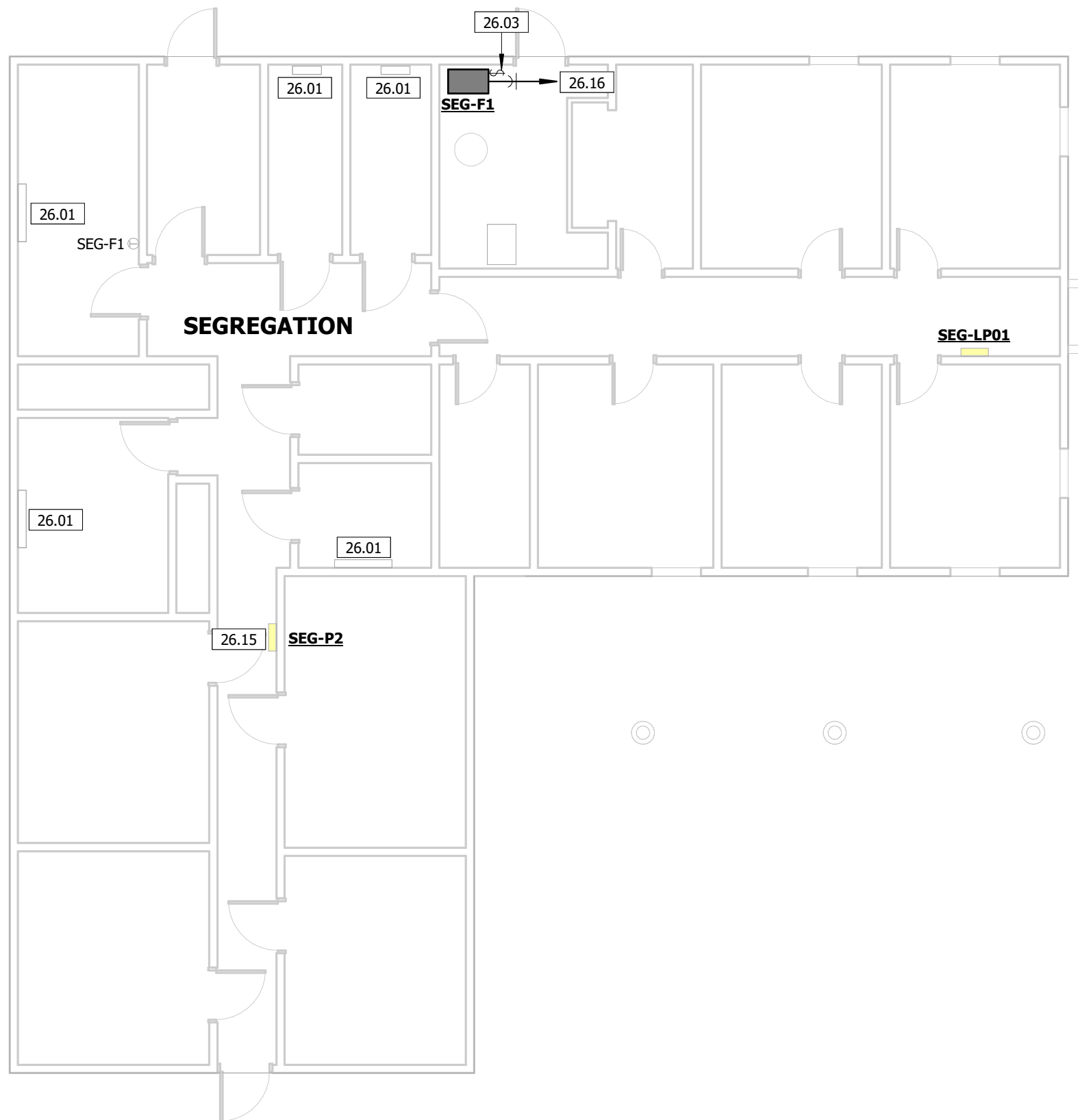
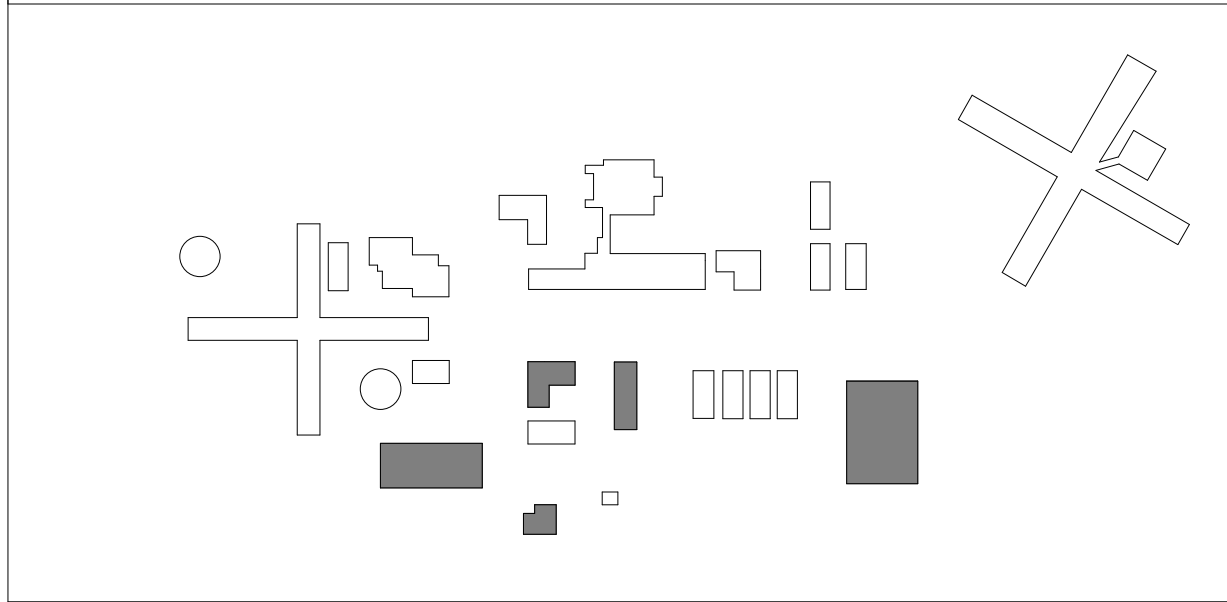
CONDUIT AND CONDUCTORS

| KEY VALUE | SIZE AND QUANTITY |
|-----------|---|
| C1 | (2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT. |
| C3 | (3) #3 AND (1) #8 GROUND IN 1.25" CONDUIT. |

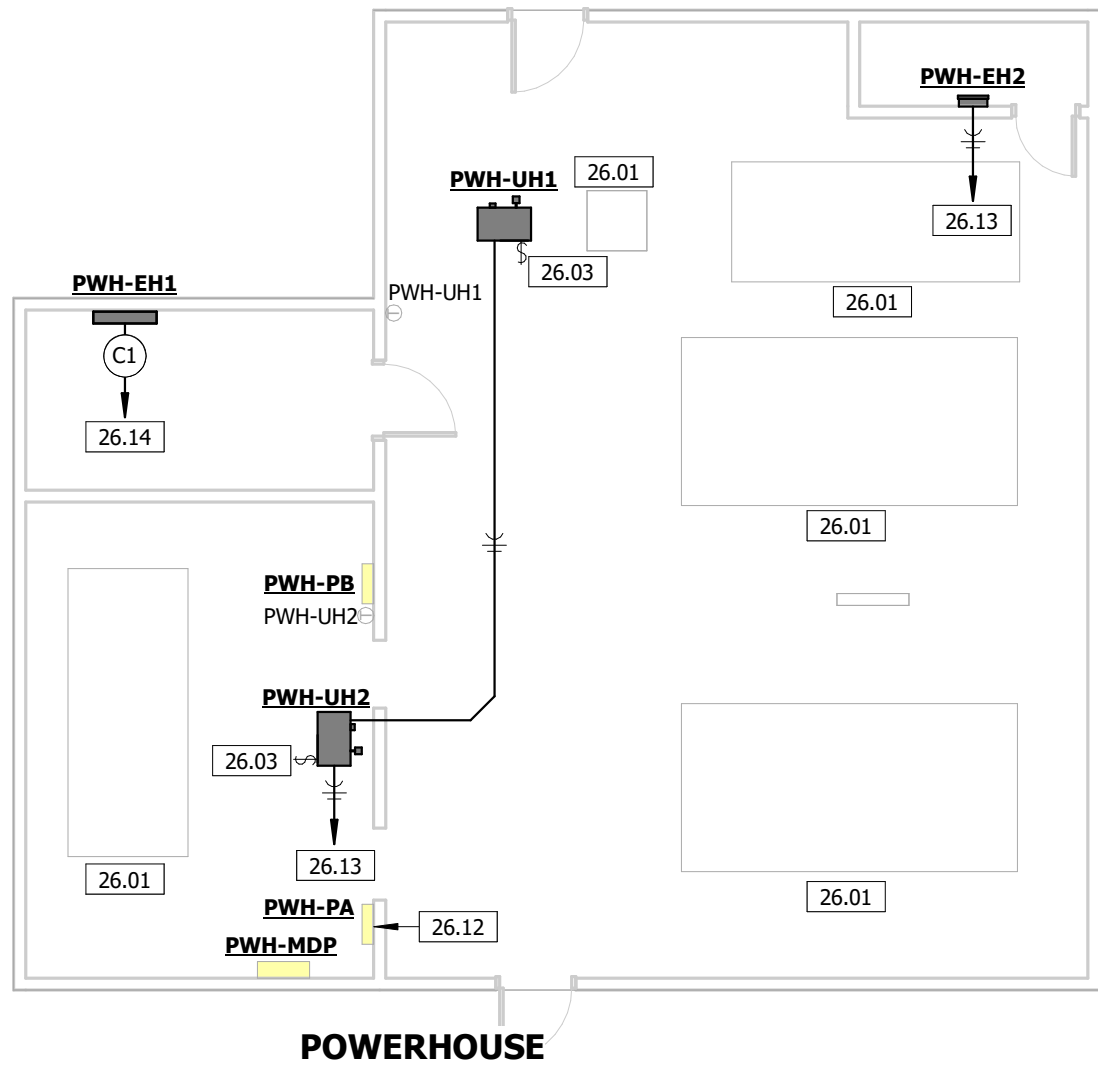
KEYNOTE LEGEND

| KEY VALUE | KEYNOTE TEXT |
|-----------|---|
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.03 | PROVIDE 120/1-VOLT SINGLE POLE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT. |
| 26.09 | CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING 120-VOLT CIRCUIT FEEDING EXISTING STEAM UNIT HEATER. EXTEND CONDUIT AND CONDUCTORS AND REQUIRED FOR NEW UNIT INSTALLATION. |
| 26.10 | EXISTING GE, 120/208-VOLT, 3-PHASE, 200-AMP PANELBOARD. |
| 26.11 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD GYM-F1. PROVIDE NEW 120-VOLT, SINGLE POLE, 15-AMP CIRCUIT BREAKER. |
| 26.12 | EXISTING GE A SERIES, 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |
| 26.13 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD PWH-PA. PROVIDE NEW 120-VOLT, SINGLE POLE, 20-AMP CIRCUIT BREAKER. |
| 26.14 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD PWH-PA. PROVIDE NEW 208-VOLT, TWO POLE, 40-AMP CIRCUIT BREAKER. |
| 26.15 | EXISTING SYLVANIA SL12, 120/208-VOLT, SINGLE PHASE, 125-AMP PANELBOARD. |
| 26.16 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD SEG-P2. PROVIDE NEW 120-VOLT, SINGLE POLE, 15-AMP CIRCUIT BREAKER. |
| 26.17 | EXISTING EATON OUTER-HAMMER SAFETY BREAKER, LOAD CENTER, 120/240-VOLT, SINGLE PHASE, 200-AMP PANELBOARD. |
| 26.18 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD CAN-F1. PROVIDE NEW 240-VOLT, TWO POLE, 40-AMP CIRCUIT BREAKER. |
| 26.19 | EXISTING ITE 120/208-VOLT, 3-PHASE, 400-AMP SWITCHBOARD. |
| 26.20 | EXISTING ITE CIP-7, 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |
| 26.21 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD LDR-P2. PROVIDE NEW 120-VOLT, SINGLE POLE, 20-AMP CIRCUIT BREAKER. |
| 26.22 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING 100-AMP SPARE ITE SWITCH IN SWITCHBOARD LDR-KSBL. FIELD VERIFY EXISTING CONDITIONS. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |

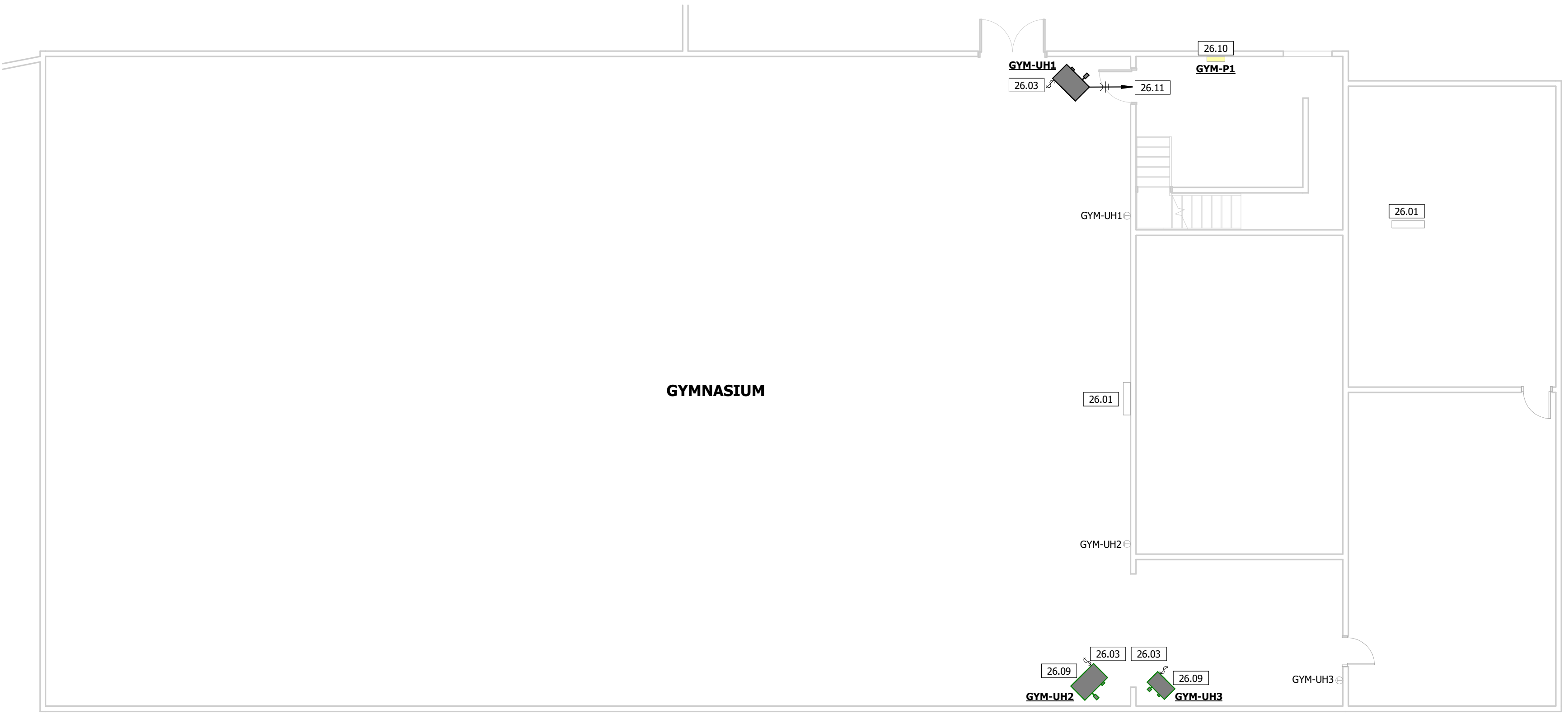
KEY PLAN



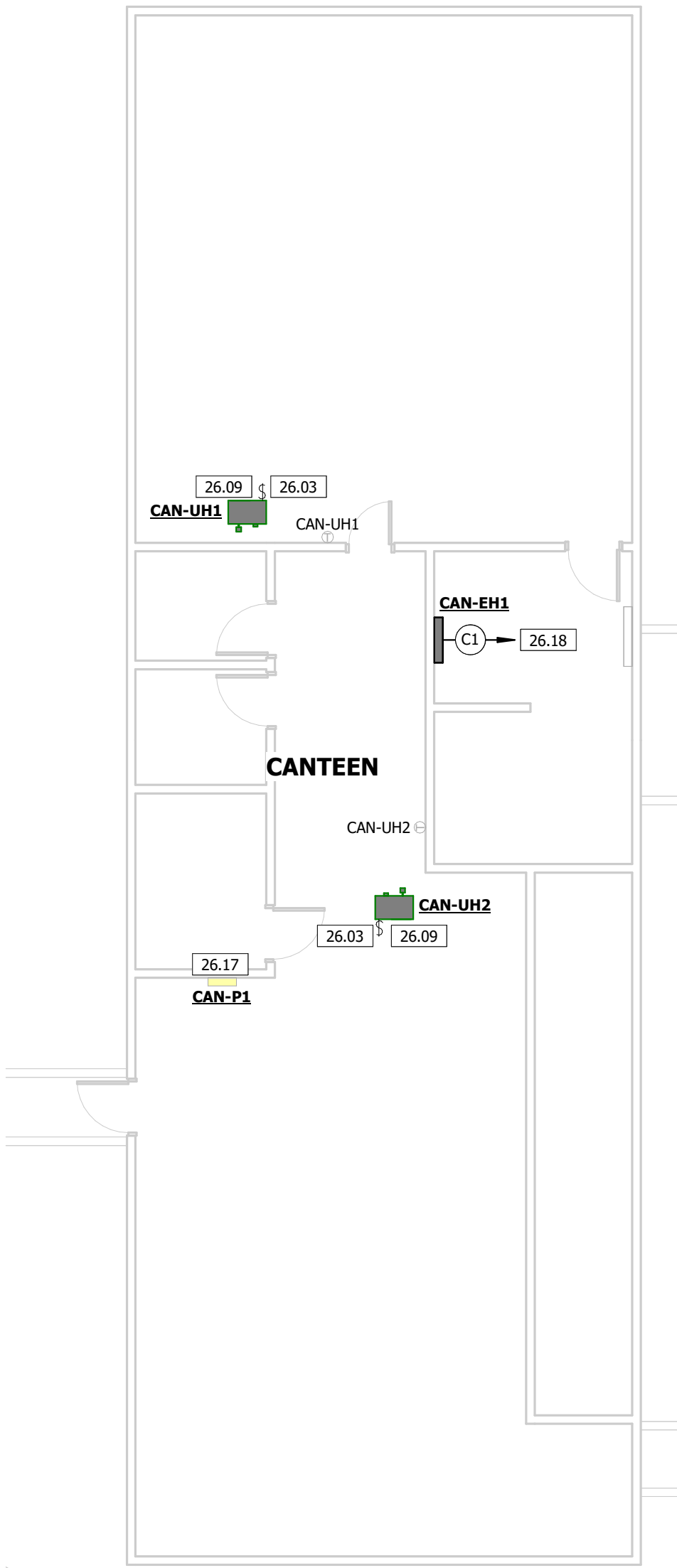
3 ELECTRICAL PLAN - SEGREGATION
1/8" = 1'-0"



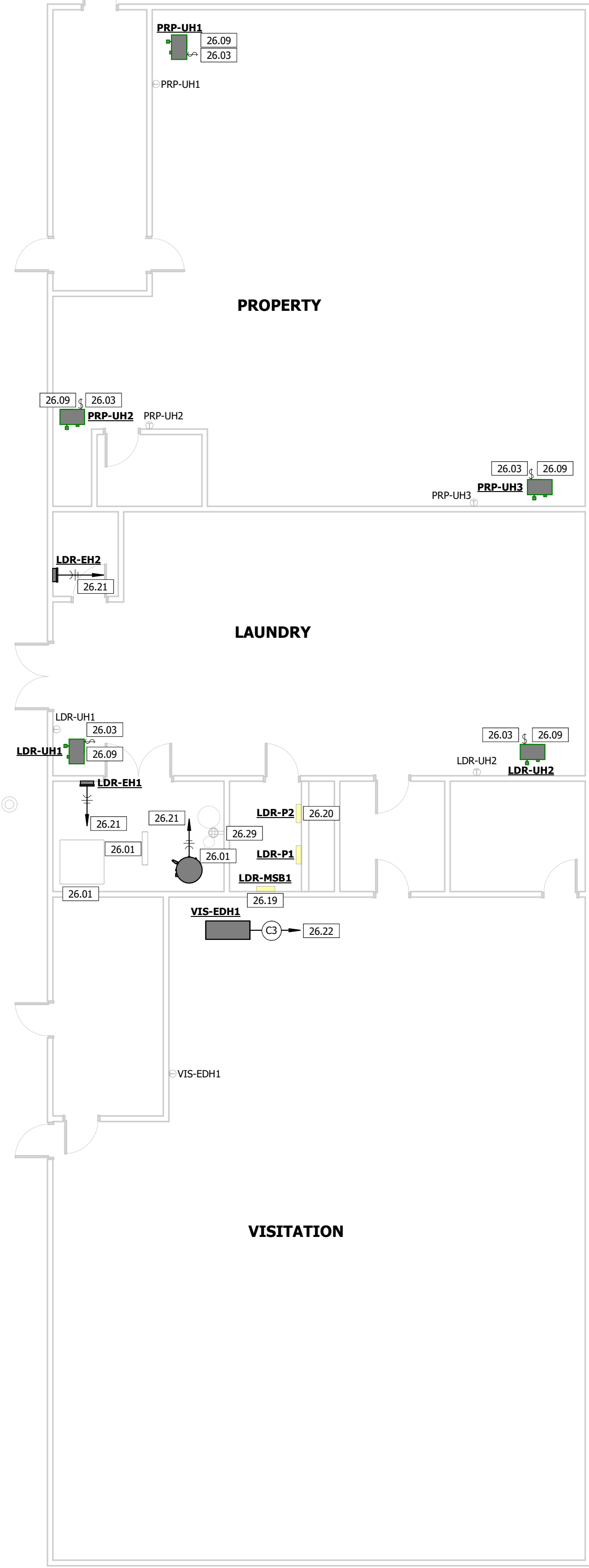
2 ELECTRICAL PLAN - POWERHOUSE
1/8" = 1'-0"



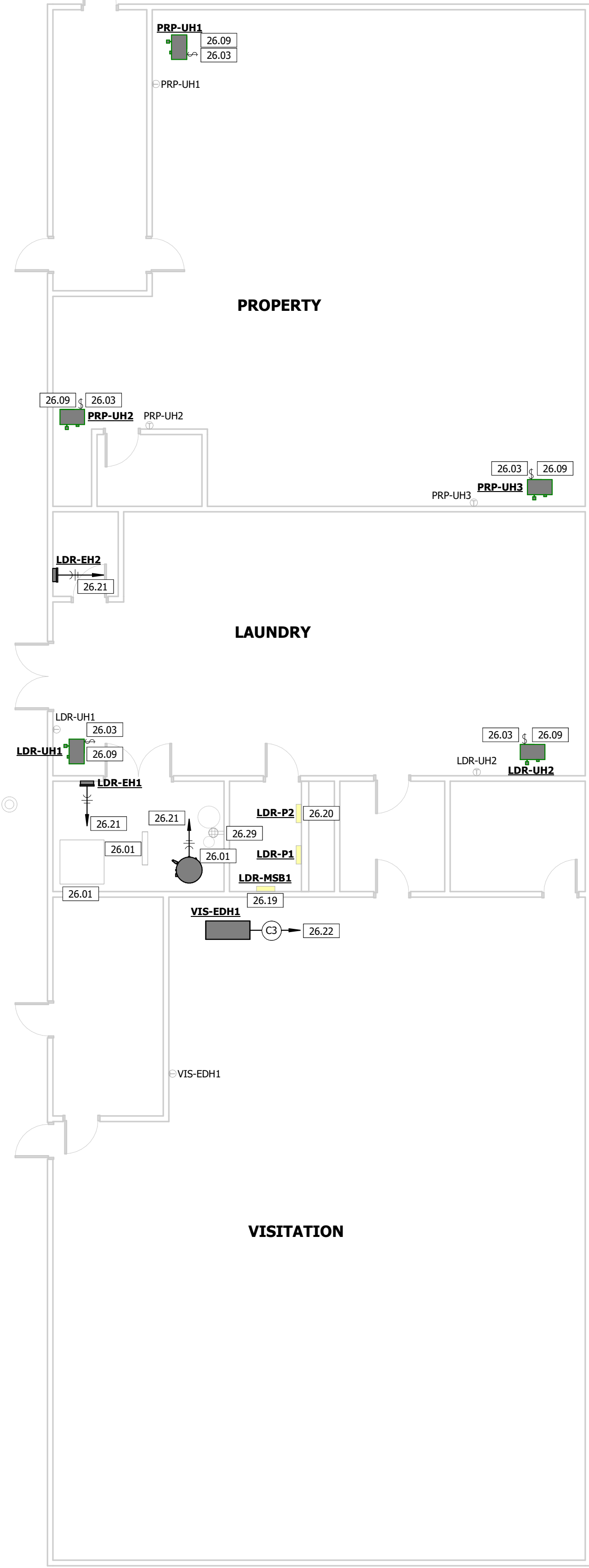
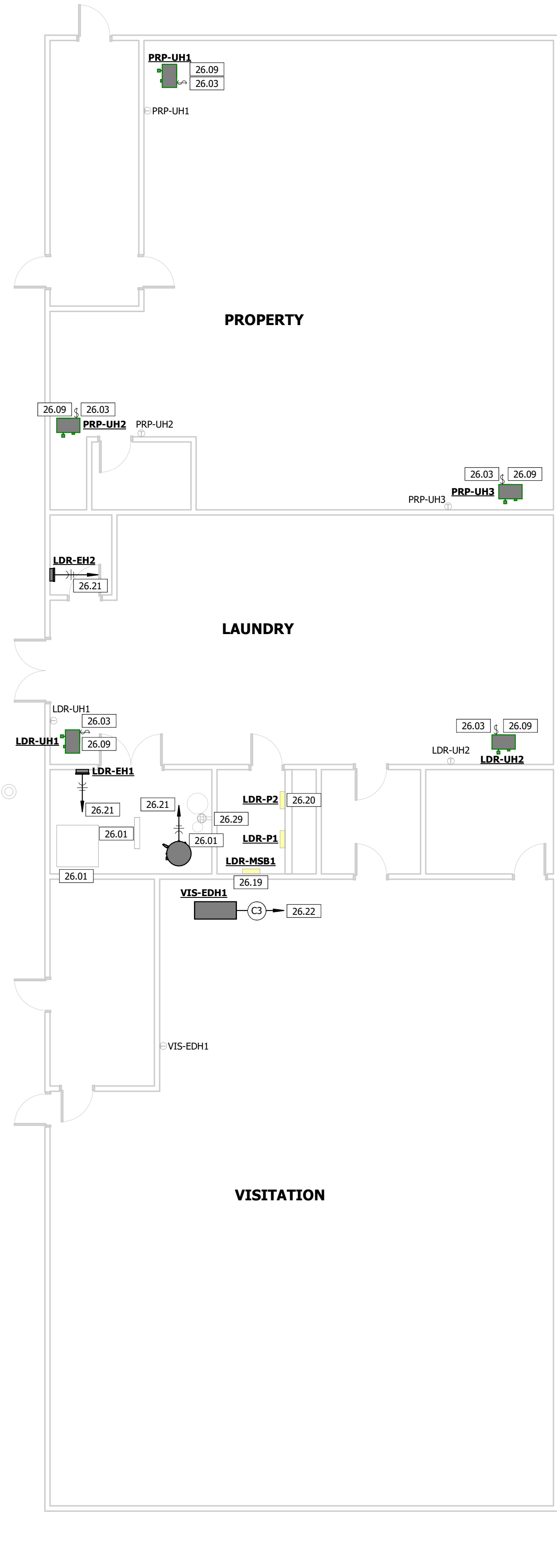
1 ELECTRICAL PLAN - GYM
1/8" = 1'-0"



4 ELECTRICAL PLAN - CANTEEN
1/8" = 1'-0"

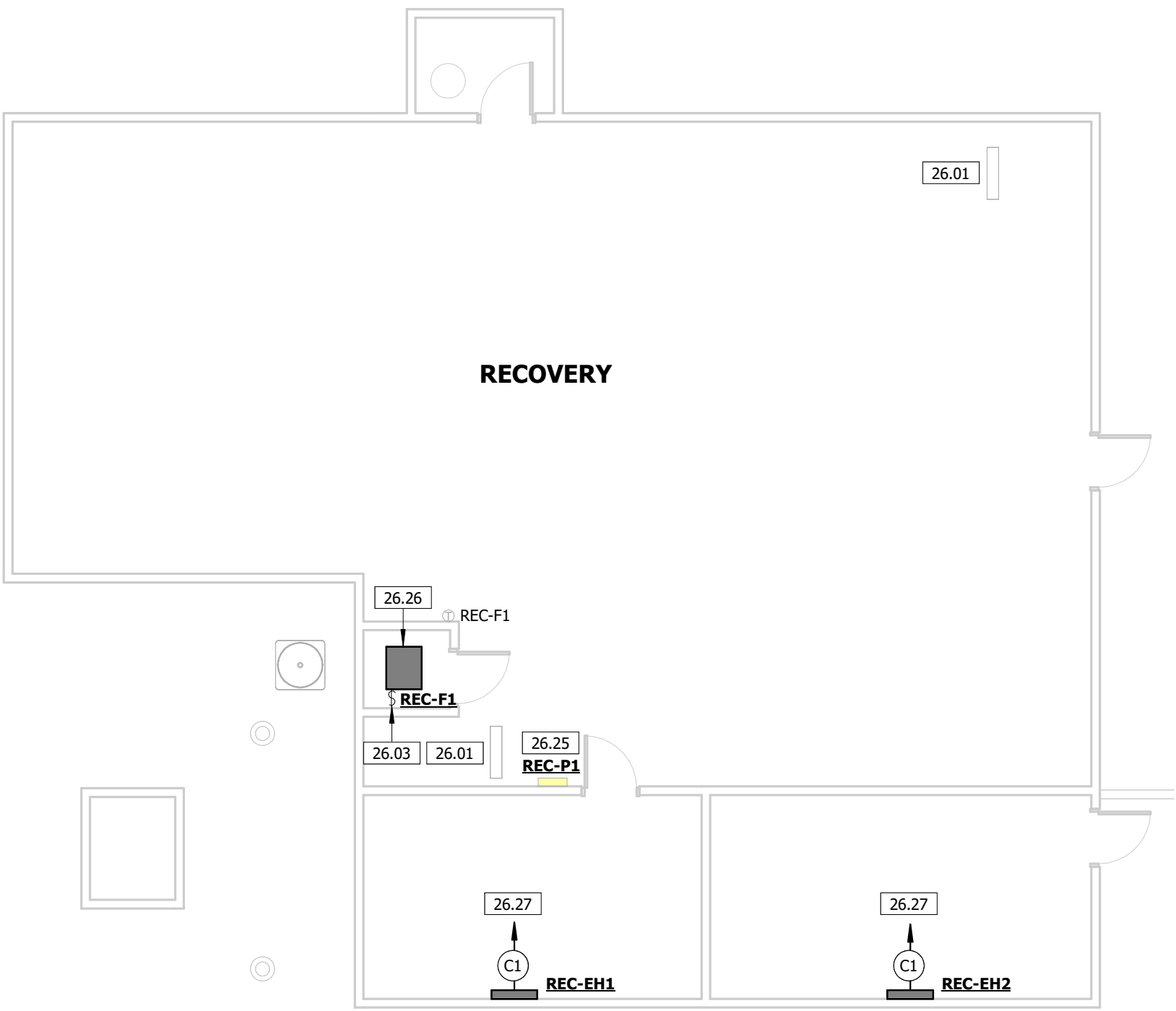


5 ELECTRICAL PLAN - VISITATION
1/8" = 1'-0"



3 ELECTRICAL PLAN - RECYCLING

1/8" = 1'-0"



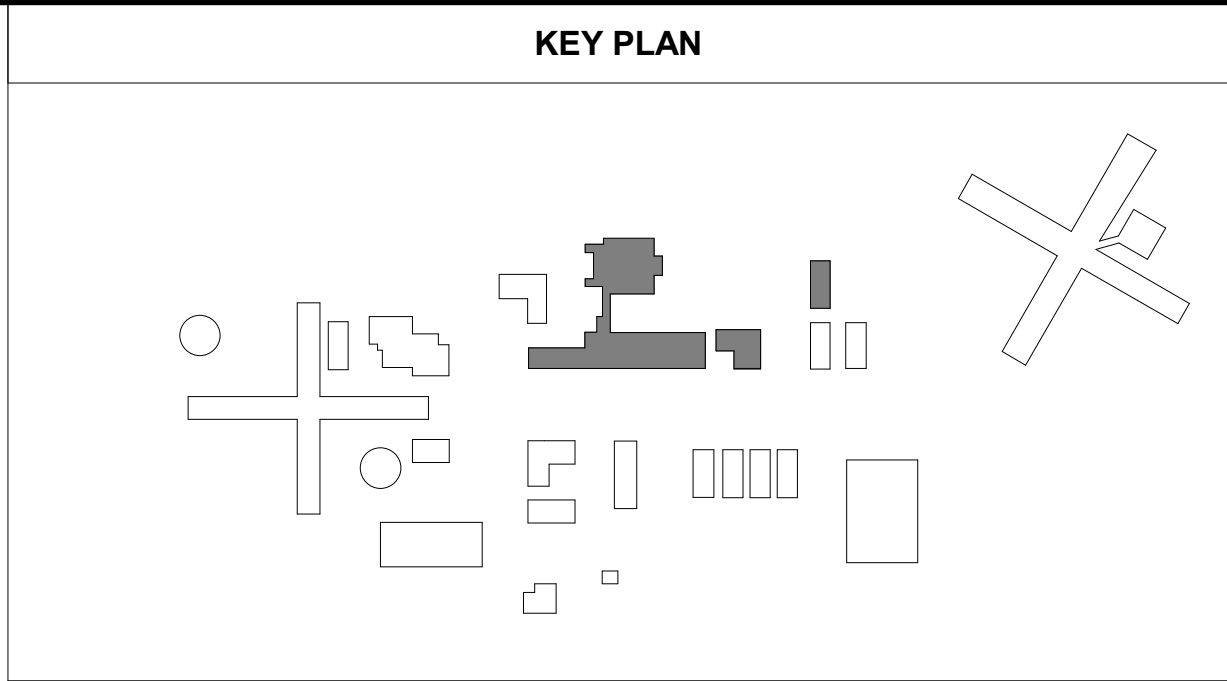
2 ELECTRICAL PLAN - RECOVERY

1/8" = 1'-0"



1 ELECTRICAL PLAN - CAFETERIA

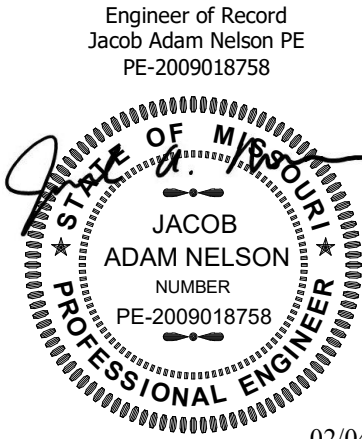
1/8" = 1'-0"



| CONDUIT AND CONDUCTORS | |
|------------------------|---|
| KEY VALUE | SIZE AND QUANTITY |
| C1 | (2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT. |

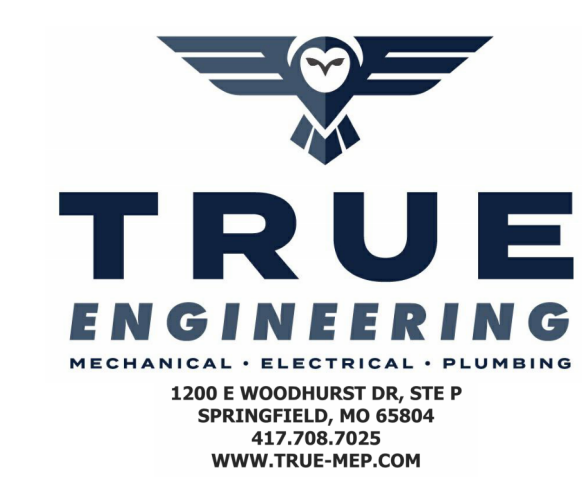
| KEYNOTE LEGEND | |
|----------------|---|
| KEY VALUE | KEYNOTE TEXT |
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.03 | PROVIDE 120/1-VOLT SINGLE POLE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT. |
| 26.06 | CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING 120-VOLT CIRCUIT FEEDING EXISTING STEAM UNIT HEATER. EXTEND CONDUIT AND CONDUCTORS AND REQUIRED FOR NEW UNIT INSTALLATION. |
| 26.23 | EXISTING SQUARE D NO. 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |
| 26.24 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD KIT-P4. PROVIDE NEW 120-VOLT, SINGLE POLE, 20-AMP CIRCUIT BREAKER. |
| 26.25 | EXISTING EATON, 120/240-VOLT, SINGLE PHASE, 200-AMP PANELBOARD. |
| 26.26 | CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING 120-VOLT CIRCUIT FEEDING EXISTING AIR HANDLER. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED FOR NEW UNIT INSTALLATION. |
| 26.27 | CIRCUIT NEW MECHANICAL EQUIPMENT TO EXISTING PANELBOARD REC-P1. PROVIDE NEW 240-VOLT, TWO POLE, 40-AMP CIRCUIT BREAKER. |
| 26.29 | EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND CONDUCTORS SHALL REMAIN. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



02/04/2025

PROFESSIONAL SEAL



TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #0-201600702

OFFICE OF
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MANAGEMENT, DESIGN
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DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
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REVISION:
DATE:
ISSUE DATE: 02/04/2025

CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

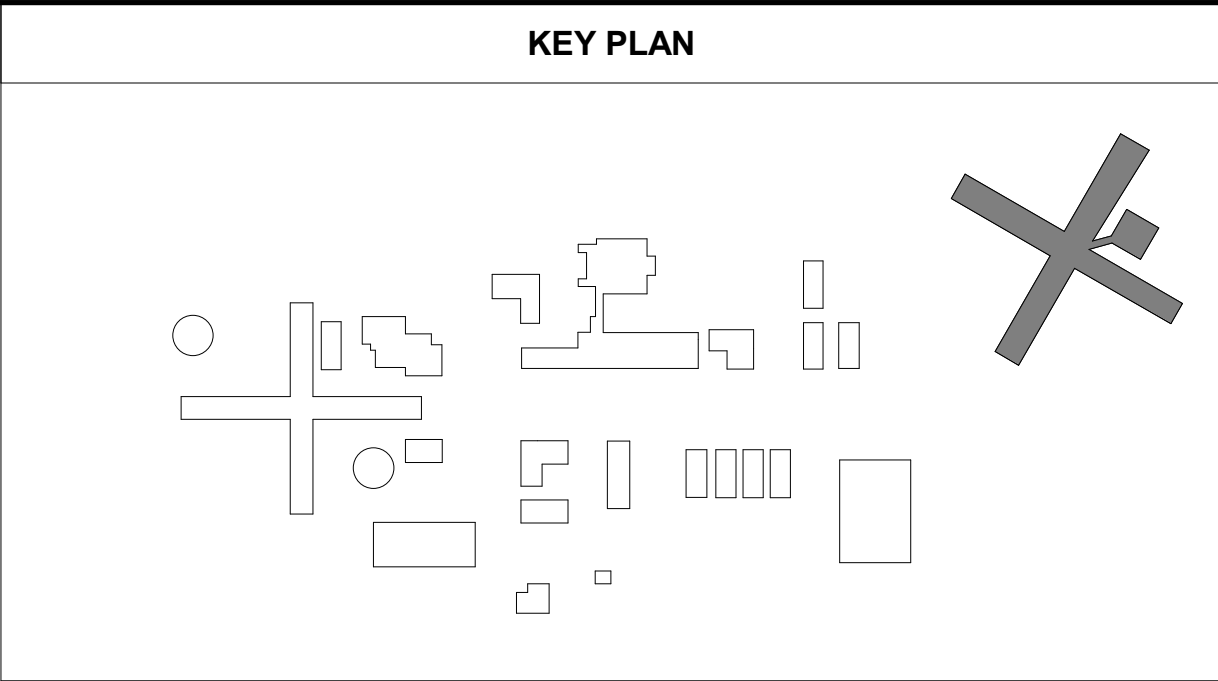
SHEET TITLE:
ELECTRICAL PLAN

SHEET NUMBER:

E-103

29 OF 31 SHEETS
02/04/2025

KEY PLAN



| KEYNOTE LEGEND | |
|----------------|--|
| KEY VALUE | KEYNOTE TEXT |
| 26.01 | ELECTRICAL CONNECTION AND ASSOCIATED CONDUIT AND CONDUCTORS TO ABANDONED EXISTING MECHANICAL EQUIPMENT SHALL REMAIN. |
| 26.02 | PROVIDE ELECTRICAL CONNECTION TO BAS PANEL. COORDINATE LOCATION AND REQUIREMENTS WITH BAS CONTRACTOR. |
| 26.03 | PROVIDE 120/1 VOLT SINGLE POLE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT. |
| 26.26 | CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING 120-VOLT CIRCUIT FEEDING EXISTING AIR HANDLER. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED FOR NEW UNIT INSTALLATION. |
| 26.28 | EXISTING ITE CDP-2, 120/208-VOLT, 3-PHASE, 225-AMP PANELBOARD. |

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

Engineer of Record
Jacob Adam Nelson PE
PE-2009018758



02/04/2025
PROFESSIONAL SEAL



TRUE
ENGINEERING

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1200 E WOODHURST DR, STE P
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TRUE ENGINEERING GROUP, LLC
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-201600702

OFFICE OF
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DEPARTMENT OF
CORRECTIONS

OZARK CORRECTIONAL
CENTER - UPGRADE HVAC

929 HONOR CAMP LN,
FORDLAND, MO 65652

PROJECT # C2324-01
SITE # 7003
FACILITY # 9327003081

REVISION:
DATE:
REVISION:
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REVISION:
DATE:
ISSUE DATE: 02/04/2025

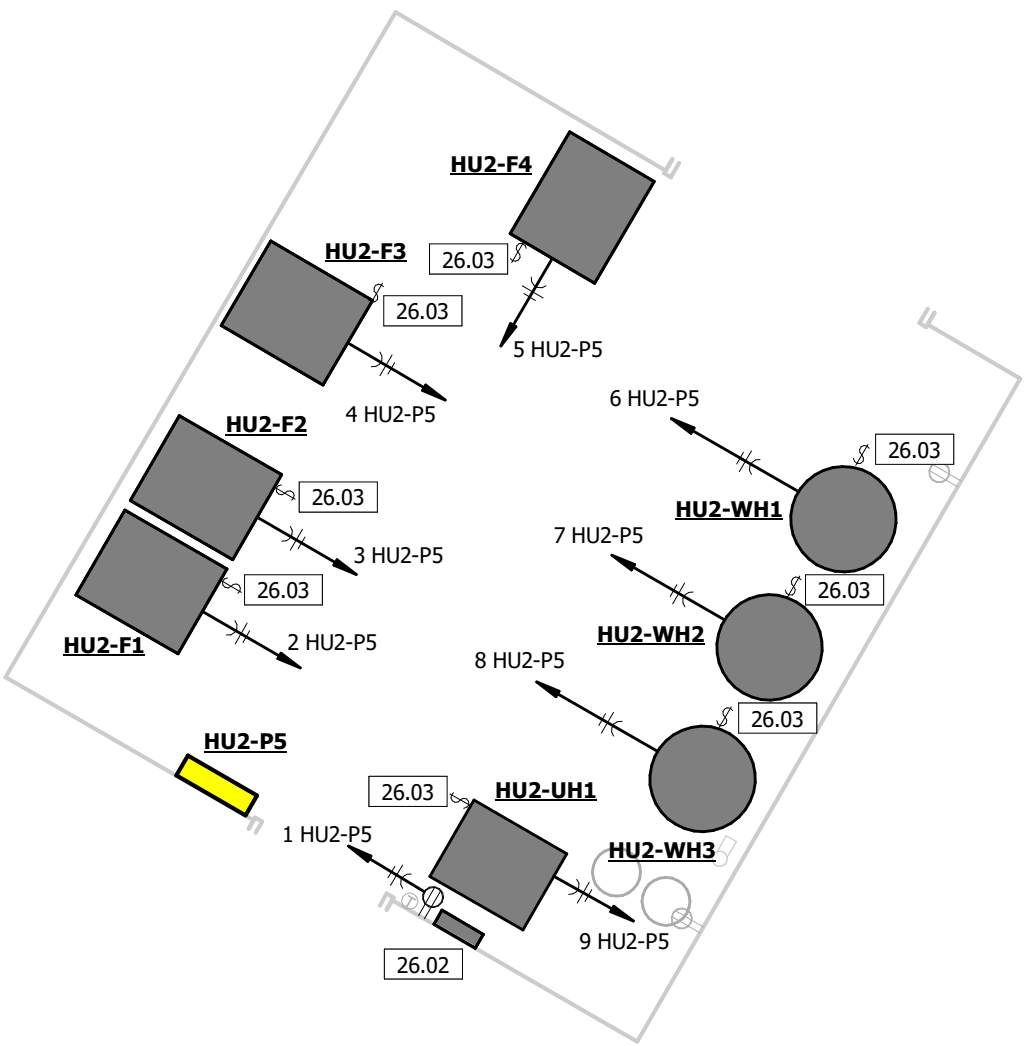
CAD DWG FILE: C2324-01
DRAWN BY: KP
CHECKED BY: JN
DESIGNED BY: JK

SHEET TITLE:
ELECTRICAL PLAN

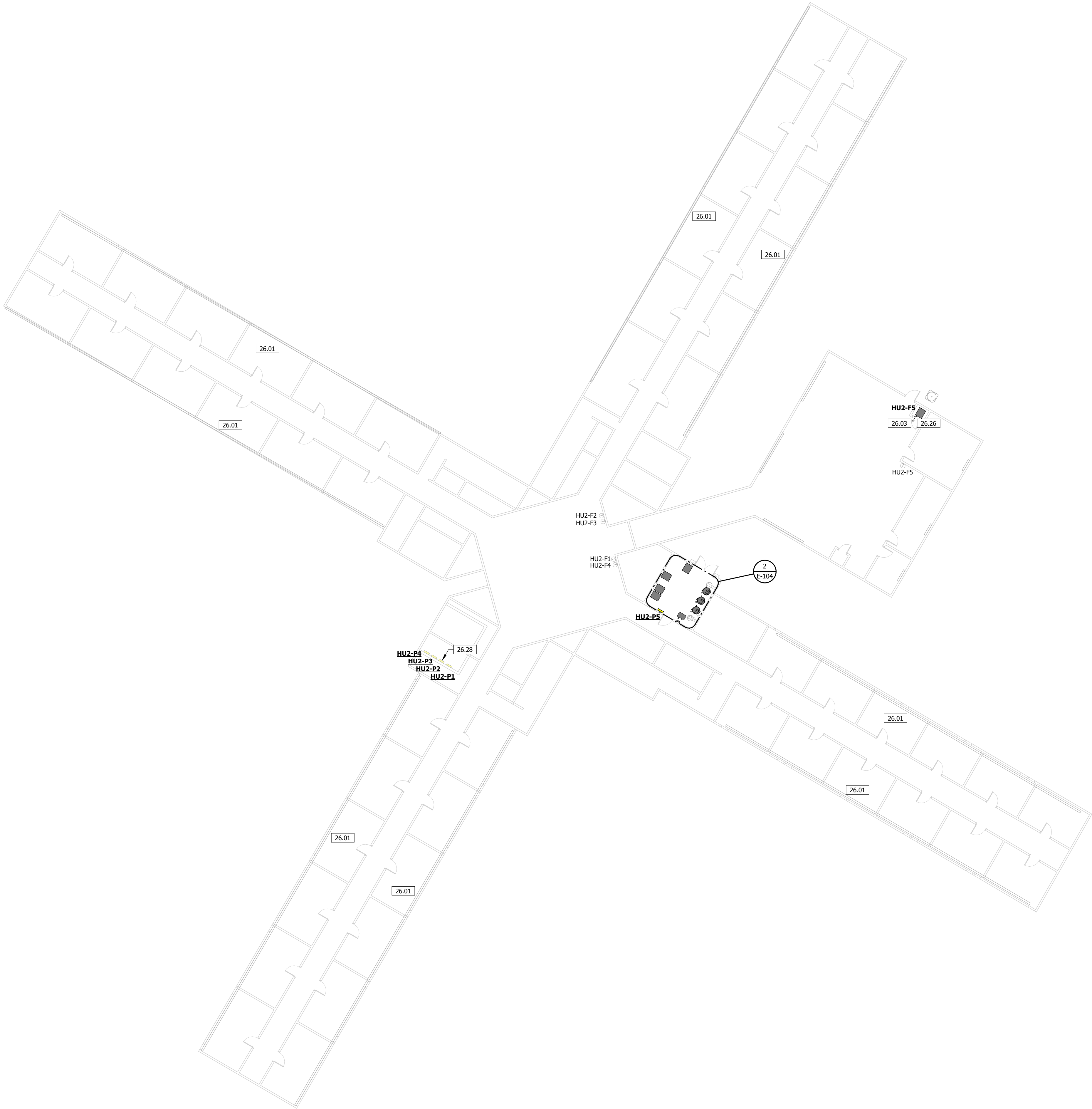
SHEET NUMBER:

E-104

30 OF 31 SHEETS
02/04/2025



2 ELECTRICAL PLAN - HU2 - ENLARGED
1/4" = 1'-0"

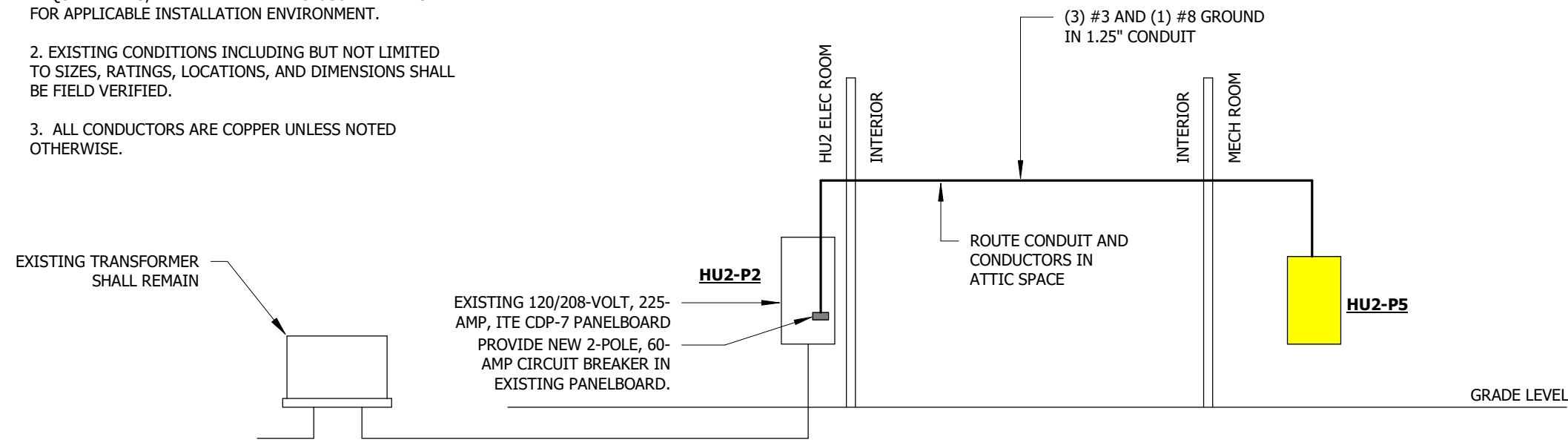


1 ELECTRICAL PLAN - HOUSING UNIT TWO
1/16" = 1'-0"

| Branch Panel: HU2-P5 | | | | | | | | | | | | | | | |
|---|---------------------|----------------|--------|---------------|--------------------|------------------|---------|----------------------------|---------|----------------------|-------|--------|------|---------------------|-----|
| Location: Mechanical Room | | | | | Volts: 120/208 Wye | | | | | A.I.C. Rating: 10 kA | | | | | |
| Supply From: HU2-P2 | | | | | Phases: 3 | | | | | Mains Type: MLO | | | | | |
| Mounting: Surface | | | | | Wires: 4 | | | | | Mains Rating: 100 | | | | | |
| Enclosure: NEMA 1 | | | | | | | | | | Model: NQ | | | | | |
| Panelboard Accessories: | | | | | | | | | | | | | | | |
| 1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS | | | | | | | | | | | | | | | |
| CKT | CIRCUIT DESCRIPTION | TRIP | CB ACC | POLES | A | | B | | C | | POLES | CB ACC | TRIP | CIRCUIT DESCRIPTION | CKT |
| 1 | BAS PANEL | 20 A | | 1 | 180 VA | 720 VA | | | | | 1 | | 15 A | HU2-F1 | 2 |
| 3 | HU2-F2 | 15 A | | 1 | | | 720 VA | 720 VA | | | 1 | | 15 A | HU2-F3 | 4 |
| 5 | HU2-F4 | 15 A | | 1 | | | | | 720 VA | 840 VA | 1 | | 20 A | HU2-WH1 | 6 |
| 7 | HU2-WH2 | 20 A | | 1 | 840 VA | 840 VA | | | | | 1 | | 20 A | HU2-WH3 | 8 |
| 9 | HU2-UH1 | 20 A | | 1 | | | 444 VA | 0 VA | | | 1 | -- | 20 A | Spare | 10 |
| 11 | Spare | 20 A | -- | 1 | | | | | 0 VA | 0 VA | 1 | -- | 20 A | Spare | 12 |
| 13 | Spare | 20 A | -- | 1 | 0 VA | 0 VA | | | | | 1 | -- | 20 A | Spare | 14 |
| 15 | Spare | 20 A | -- | 1 | | | 0 VA | 0 VA | | | 1 | -- | 20 A | Spare | 16 |
| 17 | Spare | 20 A | -- | 1 | | | | | 0 VA | 0 VA | 1 | -- | 20 A | Spare | 18 |
| Total Load: | | | | | 2580 VA | | 1884 VA | | 1560 VA | | | | | | |
| Total Amps: | | | | | 22 A | | 16 A | | 12 A | | | | | | |
| Legend: | | | | | | | | | | | | | | | |
| 1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER | | | | | | | | | | | | | | | |
| Load Classification | | Connected Load | | Demand Factor | | Estimated Demand | | Panel Totals | | | | | | | |
| HVAC | | 5844 VA | | 100.00% | | 5844 VA | | | | | | | | | |
| Receptacle | | 180 VA | | 100.00% | | 180 VA | | Total Conn. Load: 6024 VA | | | | | | | |
| | | | | | | | | Total Est. Demand: 6024 VA | | | | | | | |
| | | | | | | | | Total Conn.: 17 A | | | | | | | |
| | | | | | | | | Total Est. Demand: 17 A | | | | | | | |
| Notes: | | | | | | | | | | | | | | | |

GENERAL NOTES:

- JUNCTION BOX/CABINET(S) SHALL BE SIZED PER NEC REQUIREMENTS, AND BEAR NEMA ENCLOSURE RATING FOR APPLICABLE INSTALLATION ENVIRONMENT.
- EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, RATINGS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED.
- ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.



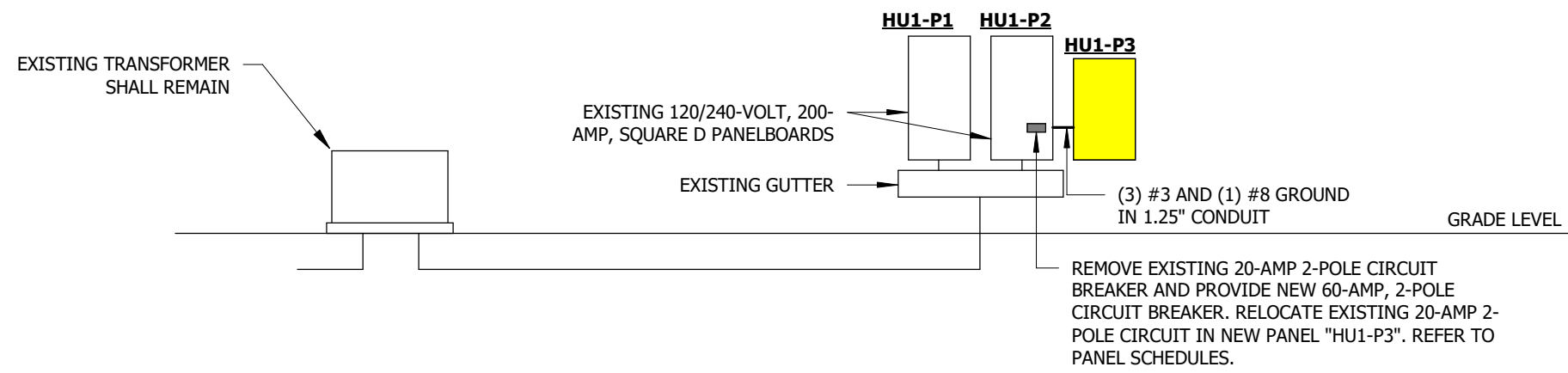
2 ELECTRICAL RISER - HOUSING UNIT 2

NOT TO SCALE

| Branch Panel: HU1-P3 | | | | | | | | | | | | | | | |
|---|-------------------------|----------------|--------|---------------|-----------------------|------------------|---------|----------------------------|-------|----------------------|------|---------------------|-----|--|--|
| Location: HU1 ELECTRICAL ROOM | | | | | Volts: 120/240 Single | | | | | A.I.C. Rating: 10 kA | | | | | |
| Supply From: HU1-P02 | | | | | Phases: 1 | | | | | Mains Type: MLO | | | | | |
| Mounting: SURFACE | | | | | Wires: 3 | | | | | Mains Rating: 100 | | | | | |
| Enclosure: NEMA 1 | | | | | | | | | | Model: NQ | | | | | |
| Panelboard Accessories: | | | | | | | | | | | | | | | |
| 1. CONCEALED HINGE, 2. FLUSH LOCKS, 3. EQUIPMENT GROUND BAR, 4. TIN PLATED COPPER BUS BARS | | | | | | | | | | | | | | | |
| CKT | CIRCUIT DESCRIPTION | TRIP | CB ACC | POLES | A | | B | | POLES | CB ACC | TRIP | CIRCUIT DESCRIPTION | CKT | | |
| 1 | EXISTING 20-AMP CIRCUIT | 20 A | | 2 | 1200 VA | 180 VA | | | 1 | | 20 A | BAS PANEL | 2 | | |
| 3 | -- | -- | -- | -- | | | 1200 VA | 720 VA | 1 | | 15 A | HU1-F1 | 4 | | |
| 5 | HU1-F2 | 15 A | | 1 | 720 VA | 720 VA | | | 1 | | 15 A | HU1-F3 | 6 | | |
| 7 | HU1-F4 | 15 A | | 1 | | | 720 VA | 720 VA | 1 | | 15 A | HU1-F5 | 8 | | |
| 9 | HU1-WH1 | 20 A | | 1 | 840 VA | 840 VA | | | 1 | | 20 A | HU1-WH2 | 10 | | |
| 11 | HU1-WH3 | 20 A | | 1 | | | 840 VA | 0 VA | 1 | -- | 20 A | Spare | 12 | | |
| 13 | Spare | 20 A | -- | 1 | 0 VA | 0 VA | | | 1 | -- | 20 A | Spare | 14 | | |
| 15 | Spare | 20 A | -- | 1 | | | 0 VA | 0 VA | 1 | -- | 20 A | Spare | 16 | | |
| 17 | Spare | 20 A | -- | 1 | 0 VA | 0 VA | | | 1 | -- | 20 A | Spare | 18 | | |
| Total Load: | | | | | 4500 VA | | 4200 VA | | | | | | | | |
| Total Amps: | | | | | 38 A | | 35 A | | | | | | | | |
| Legend: | | | | | | | | | | | | | | | |
| 1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. AFCI = ARC FAULT CIRCUIT INTERRUPTER | | | | | | | | | | | | | | | |
| Load Classification | | Connected Load | | Demand Factor | | Estimated Demand | | Panel Totals | | | | | | | |
| HVAC | | 6120 VA | | 100.00% | | 6120 VA | | | | | | | | | |
| Power | | 2460 VA | | 100.00% | | 2460 VA | | Total Conn. Load: 8700 VA | | | | | | | |
| Receptacle | | 180 VA | | 100.00% | | 180 VA | | Total Est. Demand: 8700 VA | | | | | | | |
| | | | | | | | | Total Conn.: 36 A | | | | | | | |
| | | | | | | | | Total Est. Demand: 36 A | | | | | | | |
| Notes: | | | | | | | | | | | | | | | |

GENERAL NOTES:

- JUNCTION BOX/CABINET(S) SHALL BE SIZED PER NEC REQUIREMENTS, AND BEAR NEMA ENCLOSURE RATING FOR APPLICABLE INSTALLATION ENVIRONMENT.
- EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO SIZES, RATINGS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED.
- ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.



1 ELECTRICAL RISER - HOUSING UNIT 1

NOT TO SCALE