IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES:

MOUNT PLEASANT CORRECTIONAL FACILITY
HOT AND COLD WATER MAIN REPLACEMENT

DAS PROJECT #9502.00

MECHANICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT

PLUMBING

- DOMESTIC COLD WATER LINE - CW
- DOMESTIC HOT WATER LINE - HW
- DOMESTIC HOT WATER CIRCULATING LINE - HWC
- FLEX PIPE DOMESTIC COLD WATER LINE - CW
- FLEX PIPE DOMESTIC HOT WATER LINE - HW
- FLEX PIPE DOMESTIC HOT WATER CIRCULATING LINE - HWC
- TW — TEMPERED WATER LINE
- SCW — SOFT COLD WATER LINE
- SHW — SOFT HOT WATER LINE
- SS — SANITARY SEWER LINE
- GSS — GREASE SANITARY SEWER LINE
- ST — STORM SEWER LINE
- OFD — STORM SEWER OVERFLOW LINE
- AW — ACID WASTE LINE
- V — PLUMBING VENT LINE
- AV — ACID PLUMBING VENT LINE
- CD — CONDENSATE DRAIN LINE
- G — NATURAL GAS LINE
- LP — LIQUEFIED PETROLEUM GAS LINE
- RL — REFRIGERANT LIQUID LINE
- RS — REFRIGERANT SUCTION LINE
- HG — REFRIGERANT HOT GAS BYPASS LINE
- PD — PUMPED DISCHARGE LINE
- WW — WELL WATER LINE
- CO — CLEANOUT IN FLOOR
- CO — CLEANOUT AT OR ABOVE CEILING
- CO — CLEANOUT IN WALL
- SHOWERHEAD
- FLOOR DRAIN
- ROOF DRAIN
- S-Z — PLUMBING FIXTURE (SINK) ON ASSOCIATED LEVEL
- S — PLUMBING FIXTURE (SINK) ON LEVEL ABOVE

FIRE EXTINGUISHING SYSTEM

- SPR — SPRINKLER LINE
- DSPR — DRY TYPE SPRINKLER LINE
- DRY SPRINKLER HEAD
- WET SPRINKLER HEAD
- SIDE MOUNT SPRINKLER HEAD
- FDC — PEDESTAL FIRE DEPARTMENT CONNECTION
- FDC — FIRE DEPARTMENT CONNECTION
- FS — FLOW SWITCH
- TS — SPRINKLER LINE TAMPER SWITCH

HYDRONIC PIPING

- HWS — HEATING HOT WATER SUPPLY LINE
- HWR — HEATING HOT WATER RETURN LINE
- PC — PUMPED CONDENSATE RETURN LINE
- HPS — HIGH PRESSURE STEAM SUPPLY LINE (51-125 PSIG)
- HPR — HIGH PRESSURE CONDENSATE RETURN LINE
- MPS — MEDIUM PRESSURE STEAM SUPPLY LINE (16-50 PSIG)
- MPR — MEDIUM PRESSURE CONDENSATE RETURN LINE
- LPS — LOW PRESSURE STEAM SUPPLY LINE (0-15 PSIG)
- LPR — LOW PRESSURE CONDENSATE RETURN LINE

PIPING SPECIALTIES

- PIPE RISER
- PIPE DROP
- UNION
- PIPE CAP
- BFP — BACKFLOW PREVENTER
- FLEXIBLE PIPE CONNECTOR
- FT — FLOAT & THERMOSTATIC TRAP
- THERMOSTATIC TRAP
- STRAINER
- STRAINER W/DRAIN VALVE
- V — AIR VENT
- PRESSURE GAUGE
- EXPANSION JOINT
- GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- LUBRICATED PLUG VALVE
- GATE VALVE
- 3WAY CONTROL VALVE
- 2WAY CONTROL VALVE
- CALIBRATED BALANCE VALVE
- AUTOMATIC FLOW LIMITING VALVE
- VENTURI FLOW MEASURING STATION
- VENTURI FLOW BALANCING STATION
- CHECK VALVE
- GLOBE BALANCING VALVE
- TRIPLE DUTY VALVE
- HB — HOSE BIBB
- WH — WALL HYDRANT
- THERMOMETER
- TEMPERATURE WELL
- P/T PORT
- CURB STOP
- PRV — SPRINKLER POST INDICATOR VALVE
- PRESSURE REDUCING VALVE
- SIGHT FLOW INDICATOR

MISCELLANEOUS

- EXISTING LINE TO REMAIN
- EXISTING LINE TO BE REMOVED (ON DEMOLITION PLANS)
- POINT OF NEW CONNECTION
- DEMOLISH TO THIS POINT AND PREPARE FOR NEW CONNECTION
- DEMOLISH TO THIS POINT AND CAP
- EX — EXISTING TO REMAIN
- ER — EXISTING TO BE REMOVED
- EXR — EXISTING TO BE RELOCATED

ELECTRICAL SYMBOLS LIST

NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT

WIRING DEVICES

- DUPLEX WALL RECEPTACLE
- DUPLEX RECEPTACLE ON BACKUP POWER
- DUPLEX WALL RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED
- DUPLEX WALL RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED ON BACKUP POWER
- GFI — DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
- T — DUPLEX TAMPER-RESISTANT RECEPTACLE
- WP GFI — DUPLEX WEATHERPROOF GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH COVER
- U — DUPLEX RECEPTACLE WITH USB CHARGER PORT
- TL — DUPLEX RECEPTACLE INSTALLED HORIZONTALLY
- QUADRUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE ON BACKUP POWER
- QUADRUPLEX RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED
- QUADRUPLEX RECEPTACLE ABOVE COUNTER BACKSPLASH OR AS INDICATED ON BACKUP POWER
- SIMPLEX WALL RECEPTACLE, VERIFY POWER NEEDS
- SIMPLEX WALL RECEPTACLE, ON BACKUP POWER
- DUPLEX CEILING RECEPTACLE
- JUNCTION BOX
- WIRENOLDUPLIGHOLD YUENTRANCE FITTING AS SPECIFIED AND RECEPTACLES & DEVICES AS INDICATED
- 208V WALL RECEPTACLE, VERIFY POWER NEEDS
- 208V WALL RECEPTACLE ON BACKUP POWER
- HAND DRYER (BY OTHERS)
- AUTOMATIC FAUCET/VALVE
- EPO — EMERGENCY PUSH BUTTON (GENERATORS/BOILERS)
- ADA PUSH BUTTON (BY OTHERS)

EQUIPMENT WIRING

- DISCONNECTING MEANS
- WP — WEATHERPROOF DISCONNECTING MEANS
- F — FUSED DISCONNECTING MEANS
- MS — MOTOR STARTER - REFER TO SPECIFICATIONS 26 28 16, AUTOMATIC CONTROLLERS
- HP MS — MOTOR RATED SWITCH
- VFD — VARIABLE FREQUENCY DRIVE W/INTEGRAL DISCONNECT

SWITCHES - LINE VOLTAGE (120/277V)

(REFER TO LIGHTING SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION)

- S — SINGLE POLE
- D — DIMMING SWITCH
- S 3 — 3-WAY SWITCH
- S 4 — 4-WAY SWITCH
- S K — SINGLE POLE KEYED SWITCH
- S K3 — 3-WAY KEYED SWITCH
- S P — PILOT LIGHT SWITCH
- S M — MOMENTARY LIGHT SWITCH
- S — OCCUPANCY SENSOR WALL SWITCH
- S — CEILING MOUNT OCCUPANCY SENSOR

DISTRIBUTION

- SURFACE-MOUNT PANEL
- FLUSH-MOUNT PANEL
- TRANSFORMER
- CJT CABINET
- M — METER

MISCELLANEOUS

- EX — EXISTING - TO REMAIN
- EXR — EXISTING - TO BE RELOCATED
- ER — EXISTING - TO BE REMOVED
- CONDUIT
- SWITCH-LEG IN CONDUIT
- UC — UNDER GROUND CONDUIT
- EC — EMPTY CONDUIT
- POINT OF NEW CONNECTION
- DEMOLISH TO THIS POINT AND PREPARE FOR NEW CONNECTION
- DEMOLISH TO THIS POINT AND CAP
- WP — WEATHERPROOF
- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISH GRADE
- WM — DEVICE ON WIREMOLD
- WG — WIRE GUARD
- [FS] — FIRE STOP
- EZ — PASS-THROUGH

SPECIFIC APPLICABLE CODES

THIS IS NOT MEANT TO BE AN EXHAUSTIVE LIST, ADDITIONAL CODES MAY APPLY.

- STATE PLUMBING CODE - 2024 UNIFORM PLUMBING CODE WITH STATE AMENDMENTS.
- STATE ELECTRICAL CODE - 2023 NATIONAL ELECTRIC CODE WITH STATE AMENDMENTS.

SHEET INDEX

SHEET NUMBER	SHEET NAME
ME000	COVER SHEET
ME001	SITE PLAN
PD100.0	POWERHOUSE PLUMBING DEMOLITION PLANS
PD100.1	TUNNEL PLUMBING DEMOLITION PLAN - AT POWERHOUSE
PD100.2	TUNNEL PLUMBING DEMOLITION PLAN - CENTRAL
PD100.3	TUNNEL PLUMBING DEMOLITION PLAN - AT MAIN BUILDING
PD101.1	WEST WING PLUMBING DEMOLITION PLAN
PD101.2	EAST WING PLUMBING DEMOLITION PLAN
P100.0	POWERHOUSE PLUMBING PLANS
P100.0A	POWERHOUSE PLUMBING PLANS - ALTERNATE 1
P100.1	TUNNEL PLUMBING PLAN - AT POWERHOUSE
P100.1A	TUNNEL PLUMBING PLAN - AT POWERHOUSE - ALTERNATE 1
P100.2	TUNNEL PLUMBING PLAN - CENTRAL
P100.2A	TUNNEL PLUMBING PLAN - CENTRAL - ALTERNATE 1
P100.3	TUNNEL PLUMBING PLAN - AT MAIN BUILDING
P100.3A	TUNNEL PLUMBING PLAN - AT MAIN BUILDING - ALTERNATE 1
P101.1	WEST WING PLUMBING PLAN
P101.1A	WEST WING PLUMBING PLAN - ALTERNATE 1
P101.2	EAST WING PLUMBING PLAN
P101.2A	EAST WING PLUMBING PLAN - ALTERNATE 1
P501	PLUMBING DETAILS AND SCHEDULES
ED101.0	PRISON FACILITY ELECTRICAL DEMOLITION PLANS
E100.0	POWERHOUSE ELECTRICAL PLANS

PARTNER IN CHARGE
ROGER LESHER
RLESHER@MODUS-ENG.COM

PROJECT MANAGER
KEVIN PANCZYK
KPANCZYK@MODUS-ENG.COM

MECHANICAL ENGINEER
DYLAN MUCKEY
DMUCKEY@MODUS-ENG.COM

ELECTRICAL ENGINEER
JOSH NIELSEN
JNIELSEN@MODUS-ENG.COM

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. My license renewal date is December 31, 2027.

ROGER T. LESHER LICENSED 16314 IOWA PROFESSIONAL ENGINEER

01/29/2026
Roger T. Lesher — Date

Pages or sheets covered by this seal:
Specification Div. 22, 26
Drawings:See sheet index

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MODUS ENGINEERING
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. 130 EAST 3RD ST. 118 EAST COLLEGE ST.
WATERLOO, IA 50703 DES MOINES, IA 50309 IOWA CITY, IA 52240
(319)235-0650 (515)251-7280 (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

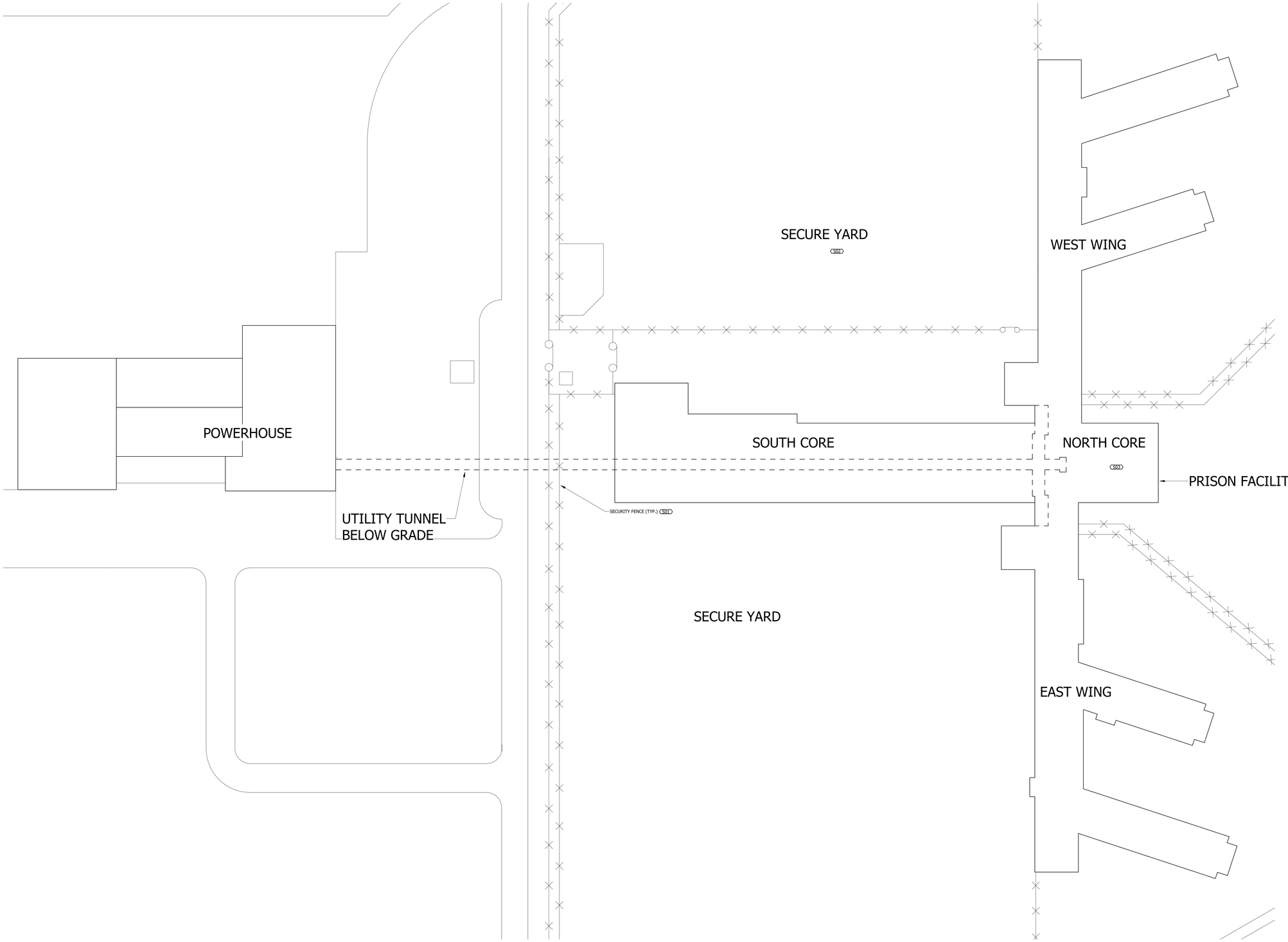
PROJECT NUMBER: 25-182

DATE: 2026.01.29

SHEET SET: 100% CONSTRUCTION DOCUMENTS

SHEET NAME: COVER SHEET

SHEET: ME000



N 1 SITE PLAN
1" = 30'-0"

GENERAL NOTES:

A. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

B. **ALL ACCESS AND SITE TRANSPORTATION COORDINATION SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.**

REFERENCED NOTES

S01 ESCORT FROM OWNER'S STAFF REQUIRED FOR ALL WORK WITHIN FENCED AREA ABOVE GRADE. WORK WITHIN THE TUNNEL BEYOND THIS POINT REQUIRES KEYED ACCESS. COORDINATE WITH FACILITY STAFF AND CONSTRUCTION MANAGER TO ALLOW DAILY ACCESS DURING TUNNEL OPERATIONS AND ANY OPERATIONS OUTSIDE OF FACILITY STAFF HOURS (6AM TO 4PM).

S02 TRANSPORT OF MATERIALS THROUGH PRISON YARD SHALL BE COMPLETED USING VEHICLE FROM OWNER'S FLEET TO PREVENT LENGTHY VEHICLE SEARCHES UNLESS OTHERWISE APPROVED BY FACILITY.

S03 ALL WORK WITHIN CONFINES OF BUILDING REQUIRES AN ESCORT FROM OWNER'S STAFF AND CHECK-IN OF TOOLS AND PERSONNEL THROUGH BUILDING SECURITY.

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. | 130 EAST 3RD ST. | 118 EAST COLLEGE ST.
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PROJECT NUMBER:
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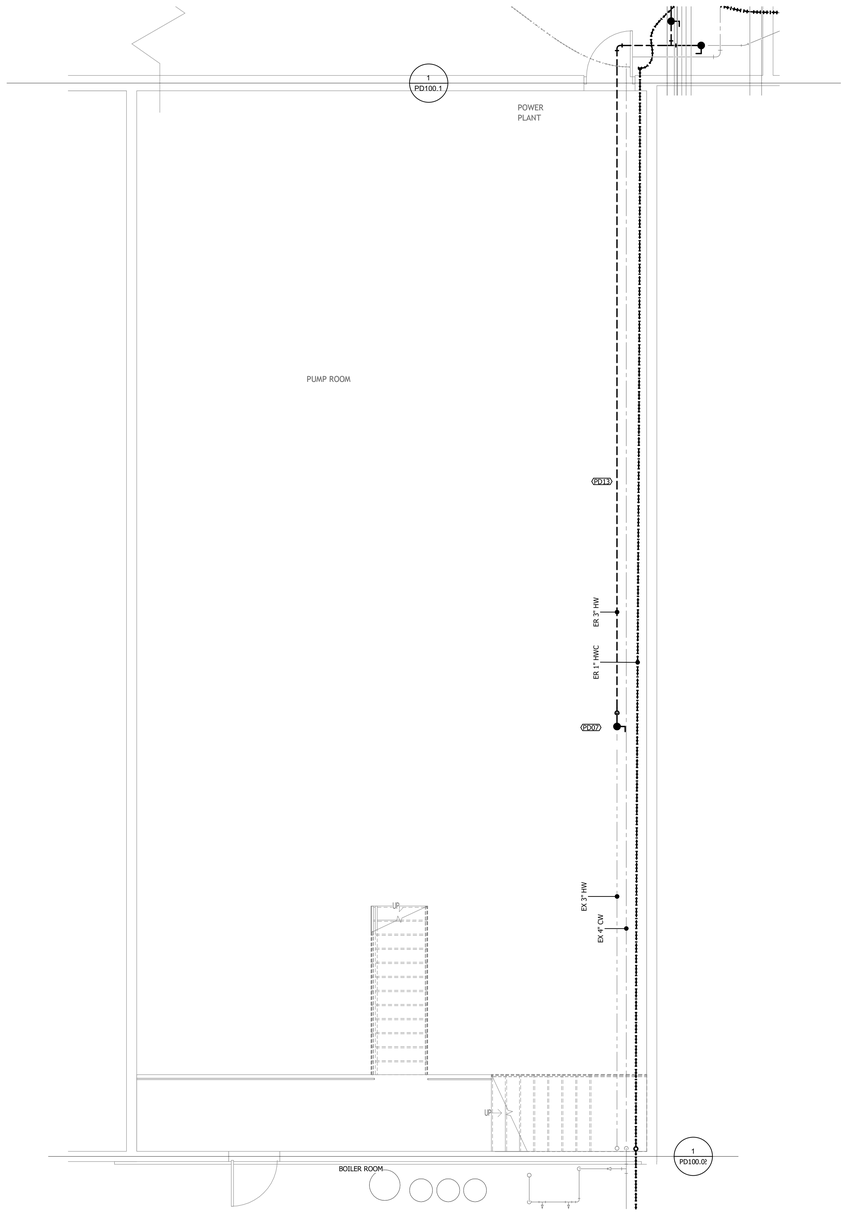
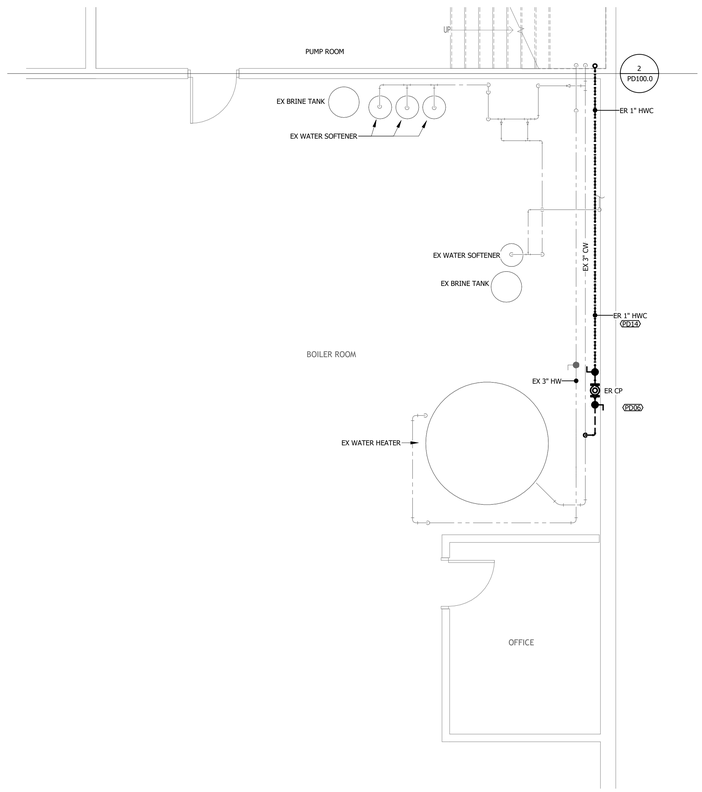
SHEET NAME:
SITE PLAN

SHEET:
ME001

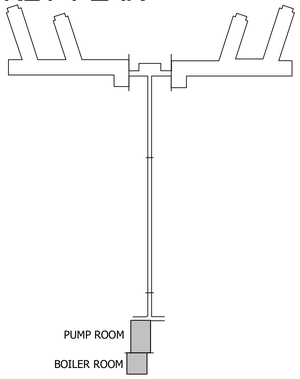


2 POWERHOUSE PUMP ROOM PLUMBING DEMOLITION PLAN
1/4" = 1'-0"



1 POWERHOUSE BOILER ROOM PLUMBING DEMOLITION PLAN
1/4" = 1'-0"

KEY PLAN



DEMOLITION GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

D. ALL ACCESS AND SITE TRANSPORTATION COORDINATION SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.

E. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

F. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

G. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL DOMESTIC HOT, COLD, AND RECIRCULATION WATER PIPING AND ACCESSORIES (NOT TO BE REUSED OR EXTENDED) BE REMOVED.

H. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

I. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

J. EXISTING PLUMBING SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

K. CONTRACTOR SHALL PATCH ALL PENETRATIONS ABANDONED TO MATCH EXISTING CONSTRUCTION REGARDLESS OF EACH INSTANCE BEING INCLUDED ON PLANS.

REFERENCED NOTES

PD06 REMOVE EXISTING HOT WATER RECIRCULATION PUMP AND ALL ASSOCIATED PIPING AND ACCESSORIES DOWNSTREAM INCLUDING VALVE AT CONNECTION TO COLD WATER PIPING SERVING WATER HEATER. COORDINATE WITH ELECTRICAL CONTRACTOR FOR DISCONNECTING POWER. DEMOLITION SHALL NOT TAKE PLACE UNTIL ALL NEW PIPING ON PROJECT HAS BEEN INSTALLED AND IS IN OPERATION.

PD07 REMOVE HOT WATER PIPING BACK TO AND INCLUDING EXISTING BALL VALVE AT THIS LOCATION. PREPARE UPSTREAM PIPING FOR CONNECTION SHOWN ON NEW WORK PLAN.

PD13 REMOVE ALL EXISTING DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

PD14 REMOVE ALL EXISTING DOMESTIC HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MUSSER
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REVISION SCHEDULE

DESCRIPTION	DATE	NO.

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MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

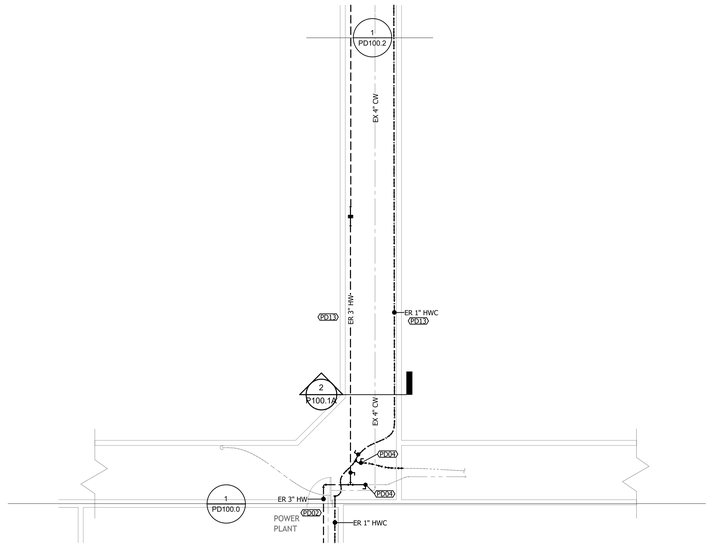
PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
POWERHOUSE PLUMBING DEMOLITION PLANS

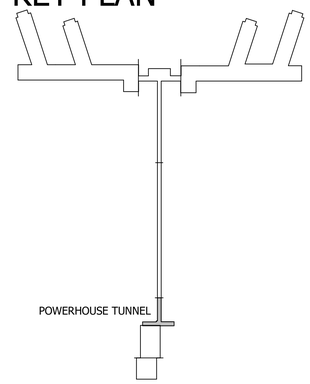
SHEET:
PD100.0



N

1 TUNNEL PLUMBING DEMOLITION PLAN - AT POWERHOUSE
1/8" = 1'-0"

KEY PLAN



DEMOLITION GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

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G. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL DOMESTIC HOT, COLD, AND RECIRCULATION WATER PIPING AND ACCESSORIES (NOT TO BE REUSED OR EXTENDED) BE REMOVED.

H. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

I. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

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K. CONTRACTOR SHALL PATCH ALL PENETRATIONS ABANDONED TO MATCH EXISTING CONSTRUCTION REGARDLESS OF EACH INSTANCE BEING INCLUDED ON PLANS.

REFERENCED NOTES

PD02 PIPING NORTH OF THIS DOORWAY ROUTED WITHIN 7' TALL TUNNEL. STORAGE OF NEW AND DEMOLISHED PIPING MAY TAKE PLACE WITHIN TUNNEL AND ADJACENT POWER HOUSE EQUIPMENT ROOM TO THE SOUTH BUT SHALL BE COORDINATED WITH OWNER AND CONSTRUCTION MANAGER TO NOT HINDER MAINTENANCE ACTIVITES.

PD04 REMOVE PORTIONS OF BRANCH LINES FROM THE MAINS AS SHOWN. ASSOCIATED ISOLATION VALVES, IF PRESENT, SHALL BE REMOVED. ASSUME 5 LINEAL FEET OF PIPING DEMOLITION PER BRANCH LINE FOR BIDDING PURPOSES. REFER TO NEW WORK PLANS FOR NEW CONNECTIONS TO THE EXISTING TO REMAIN PORTIONS OF THE BRANCH LINES.

PD13 REMOVE ALL EXISTING DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMDI
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CONSULTANTS:

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1200 E Washington St, Mt Pleasant, IA 52641

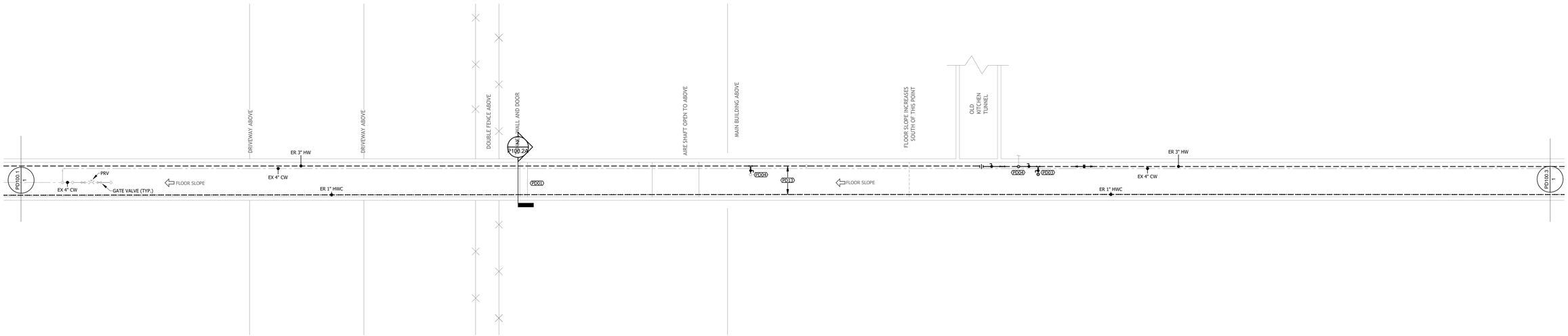
PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

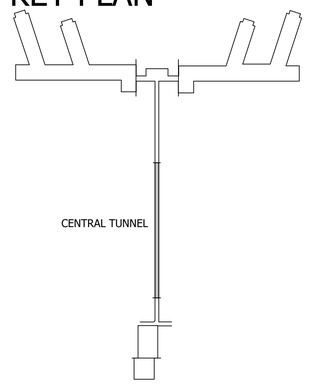
SHEET NAME:
TUNNEL PLUMBING DEMOLITION PLAN - AT POWERHOUSE

SHEET:
PD100.1



N 1 TUNNEL PLUMBING DEMOLITION PLAN - CENTER
1/8" = 1'-0"

KEY PLAN



DEMOLITION GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

D. **ALL ACCESS AND SITE TRANSPORTATION COORDINATION SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.**

E. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

F. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

G. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL DOMESTIC HOT, COLD, AND RECIRCULATION WATER PIPING AND ACCESSORIES (NOT TO BE REUSED OR EXTENDED) BE REMOVED.

H. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

I. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

J. EXISTING PLUMBING SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

K. CONTRACTOR SHALL PATCH ALL PENETRATIONS ABANDONED TO MATCH EXISTING CONSTRUCTION REGARDLESS OF EACH INSTANCE BEING INCLUDED ON PLANS.

REFERENCED NOTES

PD01 SECURITY GATE AT THIS LOCATION. SECURITY ESCORT FOR ALL WORK NORTH OF THIS POINT IS REQUIRED.

PD03 EXISTING VERTICAL BRANCH WITH GATE VALVE AND HOSE CONNECTION SHALL BE REMOVED AND REPLACED IN NEW WORK WITH A NEW BALL VALVE AND MULTIPLE-TURN VALVED HOSE CONNECTION.

PD04 REMOVE PORTIONS OF BRANCH LINES FROM THE MAINS AS SHOWN. ASSOCIATED ISOLATION VALVES, IF PRESENT, SHALL BE REMOVED. ASSUME 5 LINEAL FEET OF PIPING DEMOLITION PER BRANCH LINE FOR BIDDING PURPOSES. REFER TO NEW WORK PLANS FOR NEW CONNECTIONS TO THE EXISTING TO REMAIN PORTIONS OF THE BRANCH LINES.

PD13 REMOVE ALL EXISTING DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. | 130 EAST 3RD ST. | 118 EAST COLLEGE ST.
WATERLOO, IA 50703 | DES MOINES, IA 50309 | IOWA CITY, IA 52240
(319)235-0650 | (515)251-7280 | (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

HOT AND COLD WATER

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

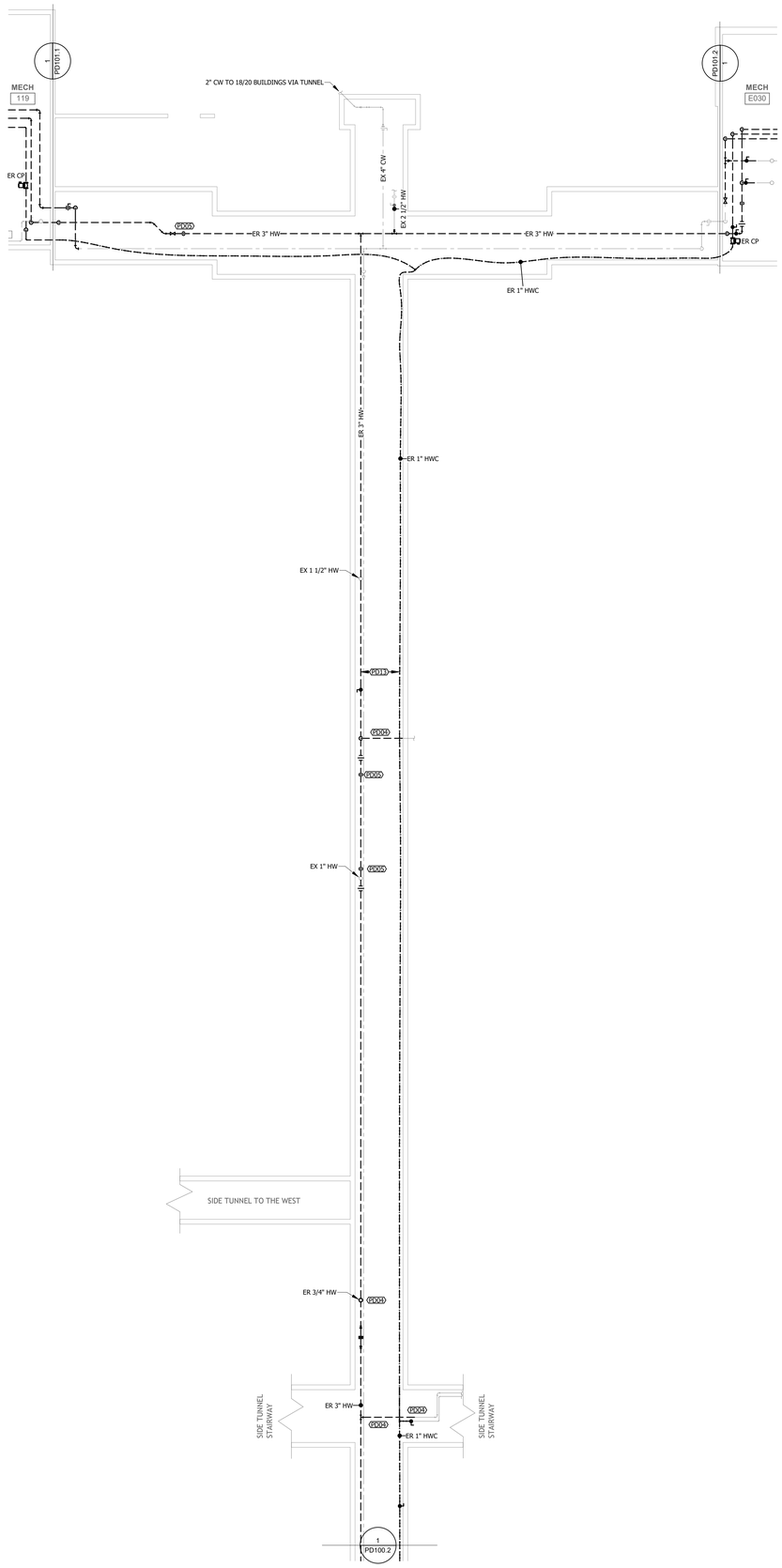
PROJECT NUMBER:
25-182

DATE:
2026.01.29

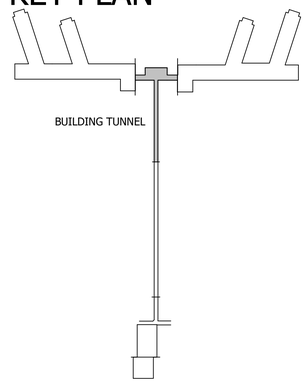
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING DEMOLITION PLAN - CENTRAL

SHEET:
PD100.2



KEY PLAN



DEMOLITION GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

D. ALL ACCESS AND SITE TRANSPORTATION COORDINATION SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.

E. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

F. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

G. ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL DOMESTIC HOT, COLD, AND RECIRCULATION WATER PIPING AND ACCESSORIES (NOT TO BE REUSED OR EXTENDED) BE REMOVED.

H. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

I. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

J. EXISTING PLUMBING SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

K. CONTRACTOR SHALL PATCH ALL PENETRATIONS ABANDONED TO MATCH EXISTING CONSTRUCTION REGARDLESS OF EACH INSTANCE BEING INCLUDED ON PLANS.

REFERENCED NOTES

PD04 REMOVE PORTIONS OF BRANCH LINES FROM THE MAINS AS SHOWN. ASSOCIATED ISOLATION VALVES, IF PRESENT, SHALL BE REMOVED. ASSUME 5 LINEAL FEET OF PIPING DEMOLITION PER BRANCH LINE FOR BIDDING PURPOSES. REFER TO NEW WORK PLANS FOR NEW CONNECTIONS TO THE EXISTING TO REMAIN PORTIONS OF THE BRANCH LINES.

PD05 EXISTING 1" MAIN DRAIN SHALL BE REMOVED AND REPLACED WITH NEW ISOLATION BALL VALVE AND 3/4" HOSE CONNECTION AS SHOWN IN NEW WORK.

PD13 REMOVE ALL EXISTING DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
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CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

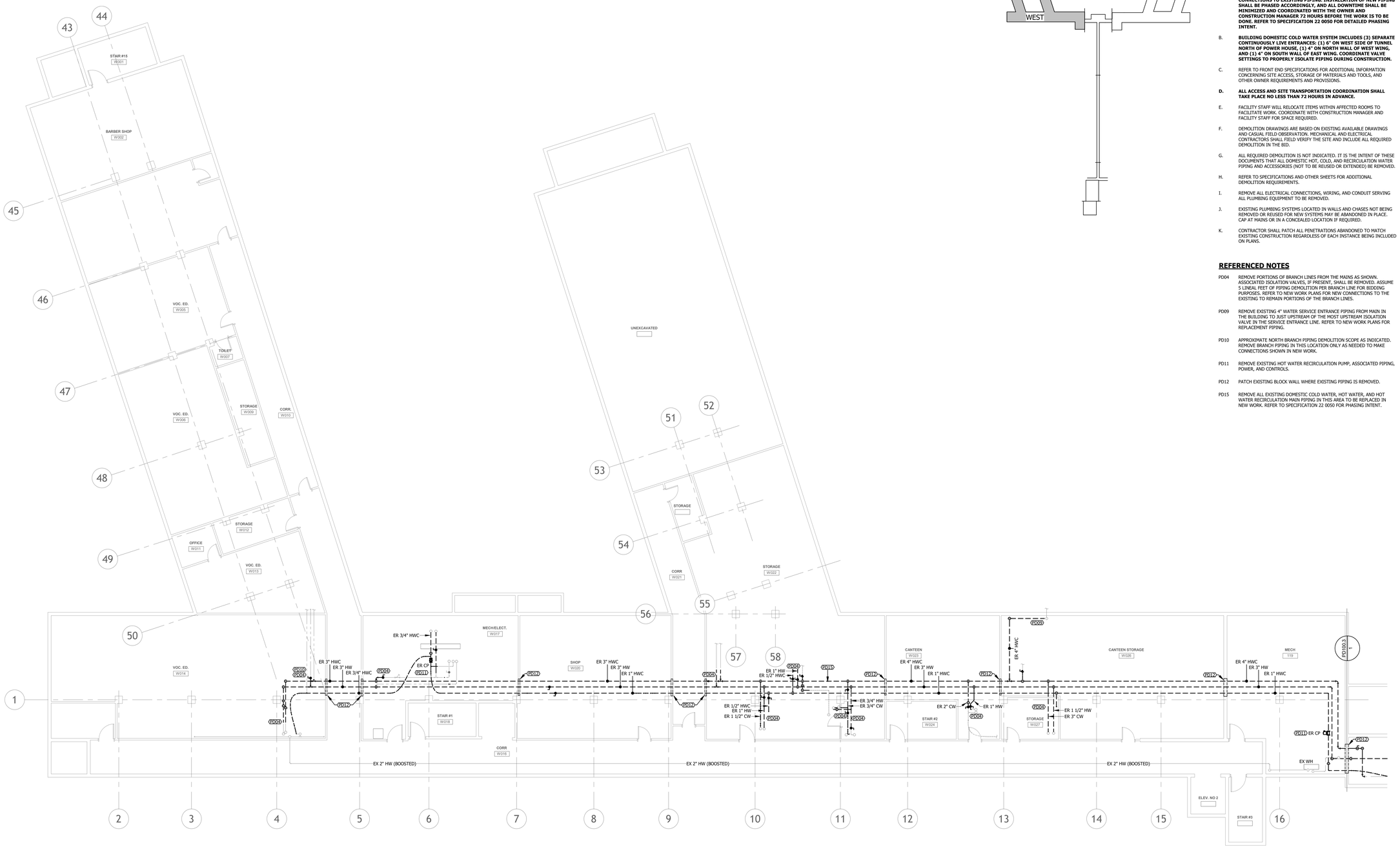
PROJECT NUMBER:
25-182

DATE:
2026.01.29

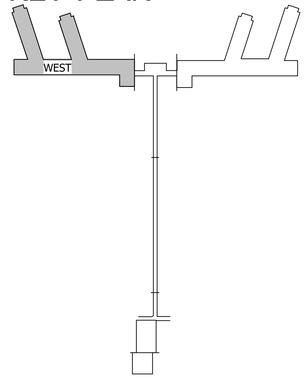
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING DEMOLITION PLAN - AT MAIN BUILDING

SHEET:
PD100.3



KEY PLAN



DEMOLITION GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

D. **ALL ACCESS AND SITE TRANSPORTATION COORDINATION SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.**

E. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

F. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

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H. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

I. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

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REFERENCED NOTES

PD04 REMOVE PORTIONS OF BRANCH LINES FROM THE MAINS AS SHOWN. ASSOCIATED ISOLATION VALVES, IF PRESENT, SHALL BE REMOVED. ASSUME 5 LINEAL FEET OF PIPING DEMOLITION PER BRANCH LINE FOR BIDDING PURPOSES. REFER TO NEW WORK PLANS FOR NEW CONNECTIONS TO THE EXISTING TO REMAIN PORTIONS OF THE BRANCH LINES.

PD09 REMOVE EXISTING 4" WATER SERVICE ENTRANCE PIPING FROM MAIN IN THE BUILDING TO JUST UPSTREAM OF THE MOST UPSTREAM ISOLATION VALVE IN THE SERVICE ENTRANCE LINE. REFER TO NEW WORK PLANS FOR REPLACEMENT PIPING.

PD10 APPROXIMATE NORTH BRANCH PIPING DEMOLITION SCOPE AS INDICATED. REMOVE BRANCH PIPING IN THIS LOCATION ONLY AS NEEDED TO MAKE CONNECTIONS SHOWN IN NEW WORK.

PD11 REMOVE EXISTING HOT WATER RECIRCULATION PUMP, ASSOCIATED PIPING, POWER, AND CONTROLS.

PD12 PATCH EXISTING BLOCK WALL WHERE EXISTING PIPING IS REMOVED.

PD15 REMOVE ALL EXISTING DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

N

1 WEST WING PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. (319) 235-0650
130 EAST 3RD ST. (515) 528-1780
118 EAST COLLEGE ST. (319) 248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

PROJECT NUMBER:
25-182

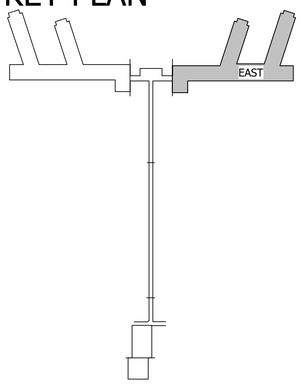
DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
WEST WING PLUMBING DEMOLITION PLAN

SHEET:
PD101.1

KEY PLAN



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I. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL PLUMBING EQUIPMENT TO BE REMOVED.

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REFERENCED NOTES

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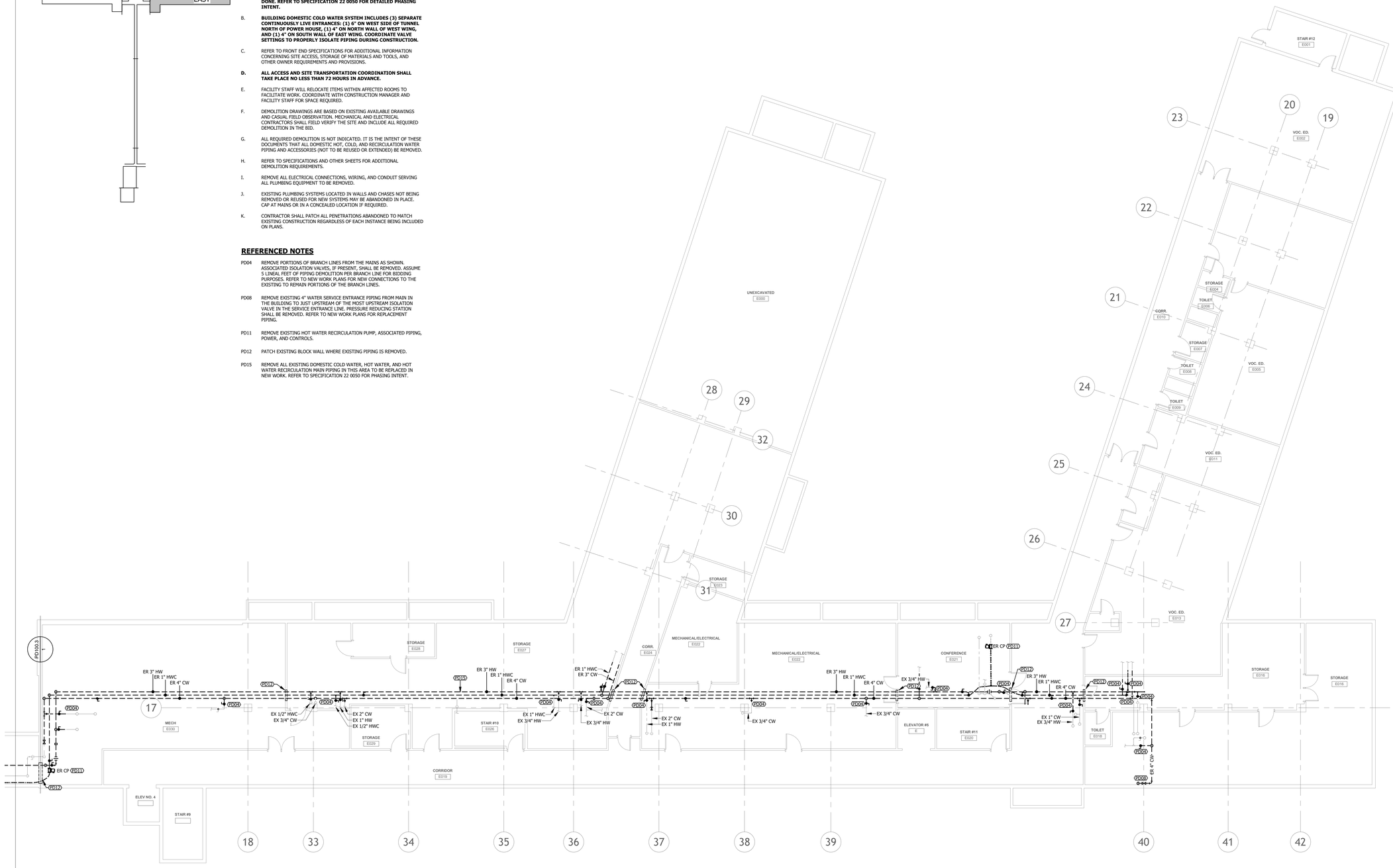
PD08 REMOVE EXISTING 4" WATER SERVICE ENTRANCE PIPING FROM MAIN IN THE BUILDING TO JUST UPSTREAM OF THE MOST UPSTREAM ISOLATION VALVE IN THE SERVICE ENTRANCE LINE. PRESSURE REDUCING STATION SHALL BE REMOVED. REFER TO NEW WORK PLANS FOR REPLACEMENT PIPING.

PD11 REMOVE EXISTING HOT WATER RECIRCULATION PUMP, ASSOCIATED PIPING, POWER, AND CONTROLS.

PD12 PATCH EXISTING BLOCK WALL WHERE EXISTING PIPING IS REMOVED.

PD15 REMOVE ALL EXISTING DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO BE REPLACED IN NEW WORK. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.



N

1 EAST WING PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
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CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

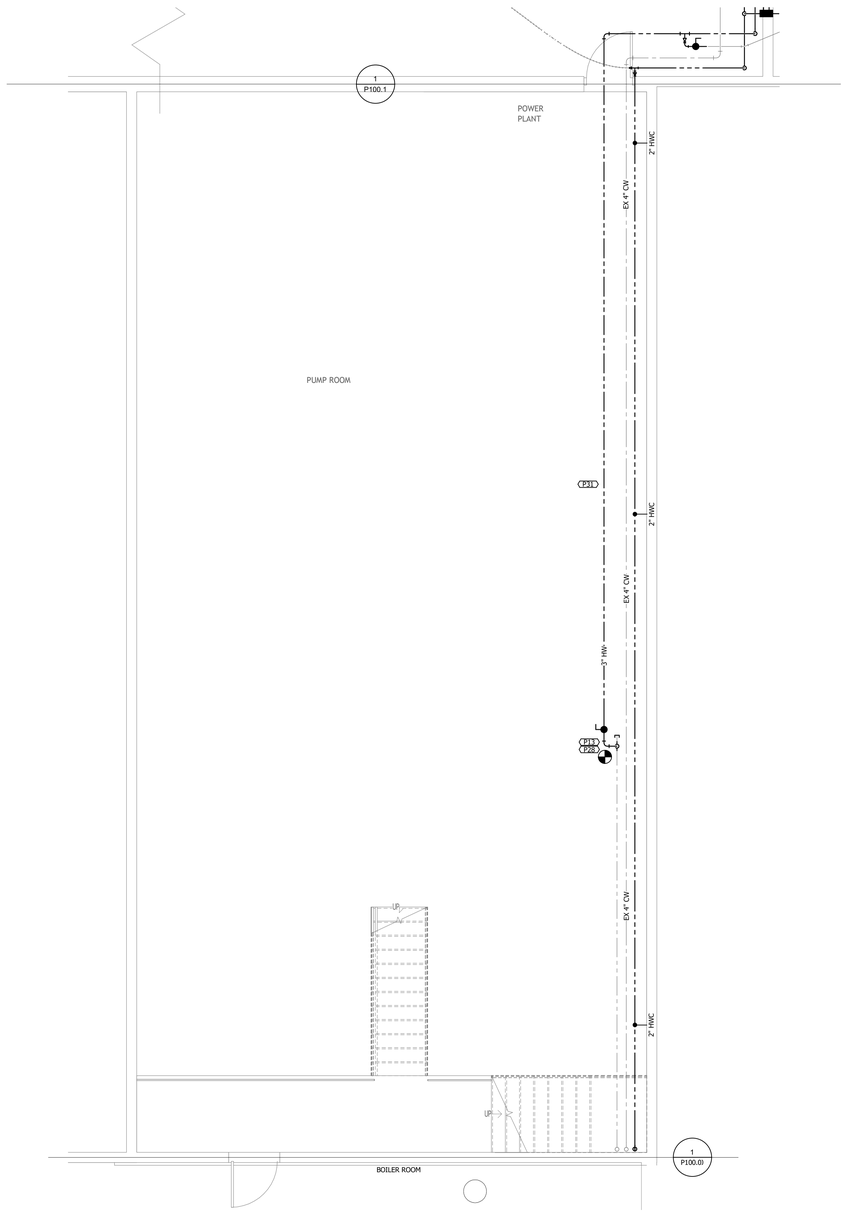
PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

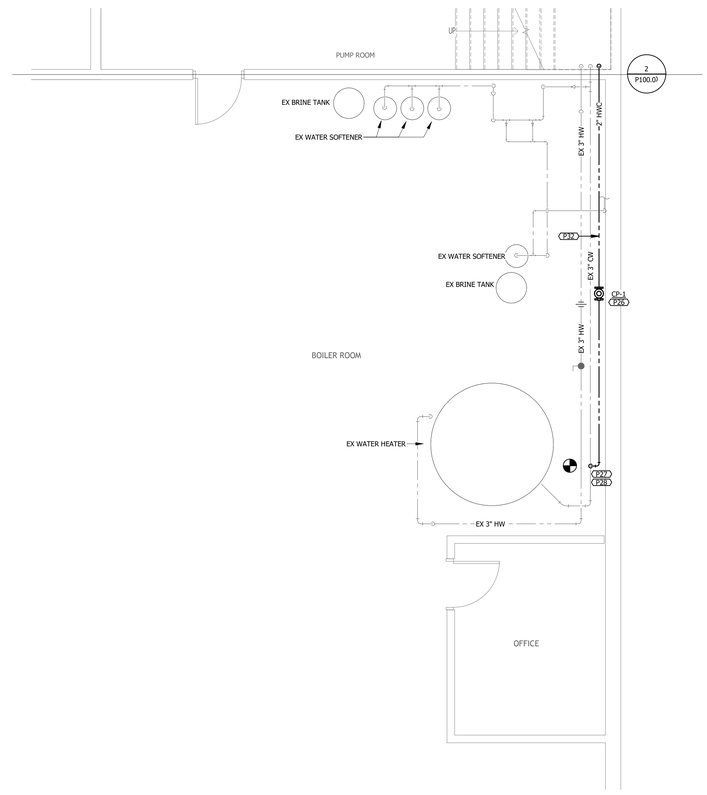
SHEET NAME:
EAST WING PLUMBING DEMOLITION PLAN

SHEET:
PD101.2



N

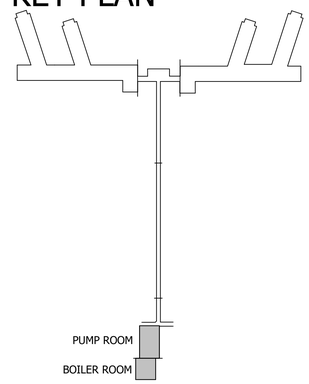
2 POWERHOUSE PUMP ROOM PLUMBING PLAN
1/4" = 1'-0"



N

1 POWERHOUSE BOILER ROOM PLUMBING PLAN
1/4" = 1'-0"

KEY PLAN



GENERAL NOTES:

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B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. **BALANCING CONTRACTOR SHALL COMPLETE (2) BALANCING PASSES THROUGH FULL HOT WATER RECIRCULATION SYSTEM TO ENSURE PROPER FLOW RATE ALL BALANCING VALVES AND AT RECIRCULATION PUMP AND TO ENSURE THAT THE SYSTEM IS PROPERLY MAINTAINING THE TEMPERATURE OF THE WATER IN THE HOT WATER MAINS.**

D. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

E. ALL ACCESS AND SITE TRANSPORTATION COORDINATON SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.

F. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

G. VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

H. INSTALLATION PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR TO VERIFY PLACEMENT OF NEW EQUIPMENT PRIOR TO INSTALLATION.

I. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL EQUIPMENT AND ABOVE ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING IN CLEARANCE SPACE.

J. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH EXISTING CONDITIONS, BUILDING STRUCTURE, LOCAL PLUMBING CODE AND THE SPECIFICATIONS TO ALLOW FOR PROPER CLEARANCES. MAKE NECESSARY OFFSETS AS REQUIRED.

K. PROVIDE ISOLATION BALL VALVES ON BRANCH PIPING TAPS FROM MAIN ON ALL COLD AND HOT WATER PIPES. ENSURE VALVES ARE INSTALLED IN ACCESSIBLE LOCATIONS.

L. ALL VALVES AND OTHER PIPING ACCESSORIES REMOVED AS PART OF DEMOLITION SCOPE SHALL BE REPLACED IN NEW WORK UNLESS NOTED OTHERWISE.

REFERENCED NOTES

P13 CONNECT NEW HOT WATER PIPING UPSTREAM OF EXISTING FLANGE, BALL VALVE, AND UNION ASSEMBLY AND CAP WATER TIGHT AT EXISTING FLANGE.

P26 PROVIDE NEW CIRCULATION PUMP MOUNTED TO WALL NORTH OF EXISTING PUMP TO BE REMOVED. INSTALL NEW PUMP PER INLINE PUMP DETAIL. COORDINATE ELECTRICAL REQUIREMENTS AND PHASING WITH ELECTRICAL CONTRACTOR.

P27 CONNECT NEW HOT WATER RECIRCULATION PIPING INTO EXISTING CW PIPING AT SAME LOCATION AS EXISTING RECIRCULATION TIE-IN POINT. PROVIDE NEW METALIC ISOLATION BALL VALVE AT NEW CONNECTION TO REPLACE EXISTING PVC VALVE.

P28 NEW PIPING FROM NEW CONNECTION IN POWERHOUSE TO ISOLATION VALVES SERVING EAST AND WEST WING MAIN PIPING WITHIN TUNNEL (INCLUDING ALL BRANCH TAKE-OFFS WITHIN TUNNEL) SHALL BE INSTALLED, CAPPED, FLUSHED, AND DISINFECTED PER SPECIFICATIONS PRIOR TO ANY CONNECTIONS TO EXISTING PIPING SYSTEMS OR REMOVAL OF ANY EXISTING PIPING. COORDINATE FINAL CONNECTIONS TO EXISTING PIPING WITH FACILITY AND CONSTRUCTION MANAGER TO ACCOMODATE FACILITY OPERATIONS AND MINIMIZE DOWNTIME.

P31 INSTALL NEW DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

P32 INSTALL NEW DOMESTIC HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
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CONSULTANTS:

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MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

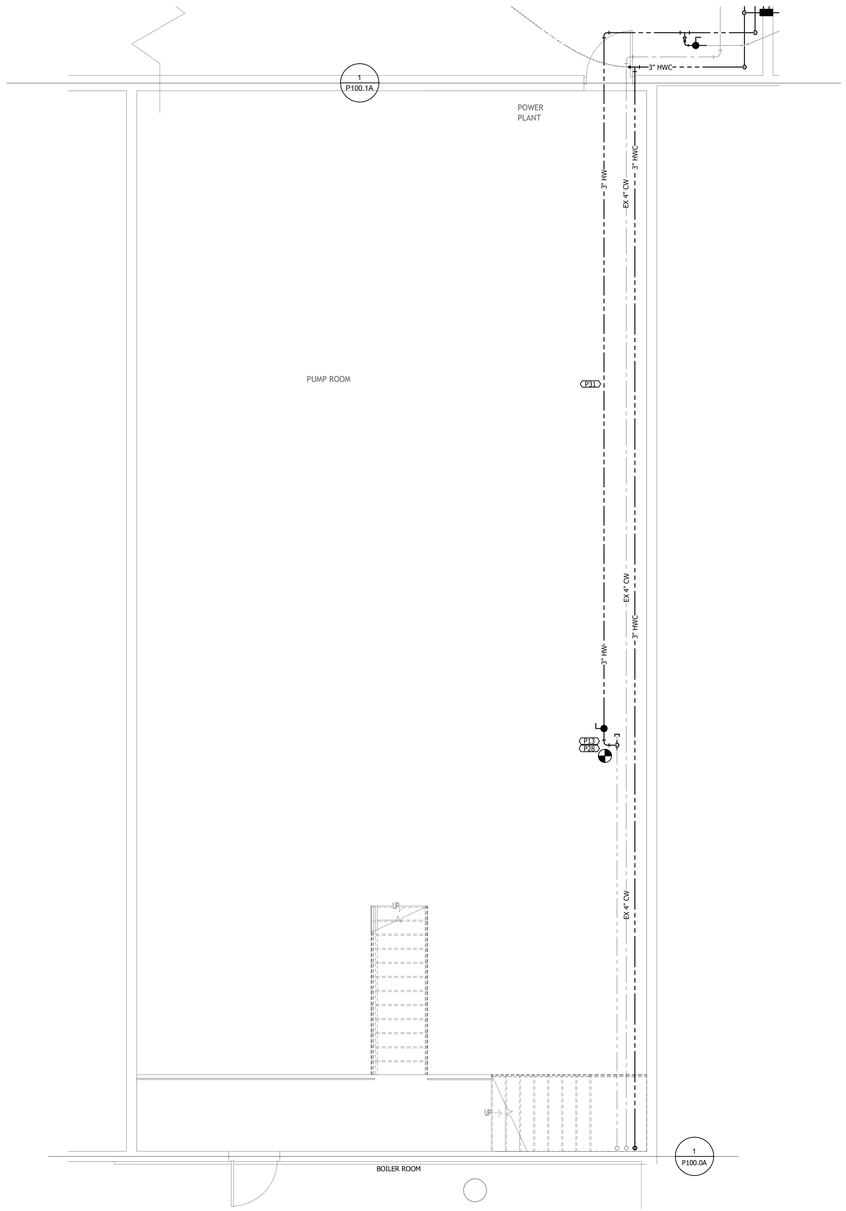
PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

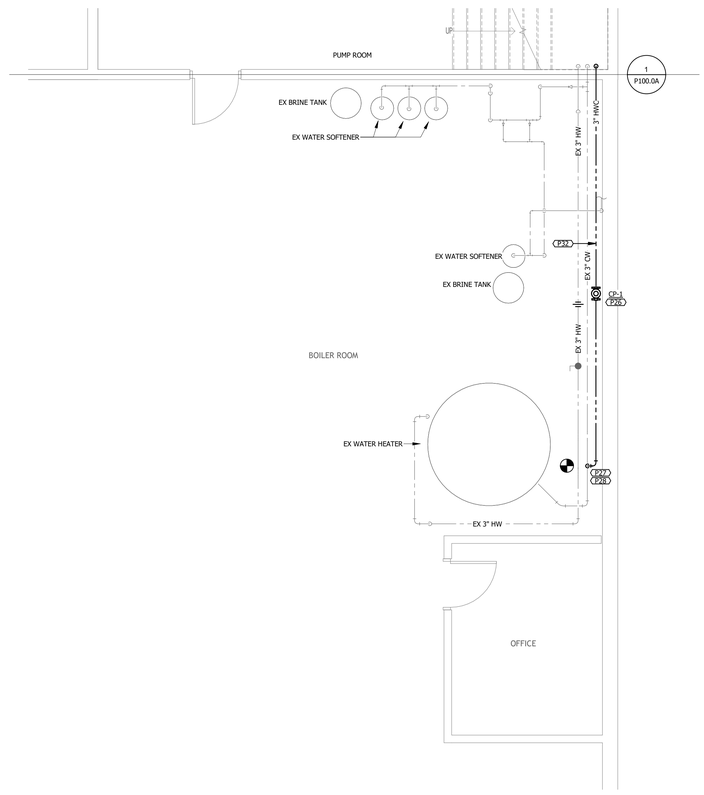
SHEET NAME:
POWERHOUSE PLUMBING PLANS

SHEET:
P100.0



N

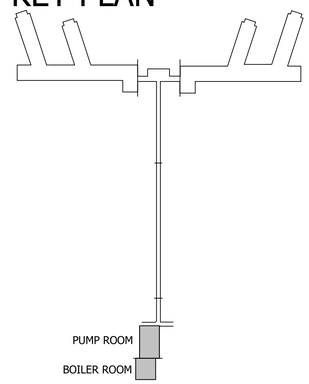
2 POWERHOUSE PUMP ROOM PLUMBING PLAN - ALTERNATE 1
1/4" = 1'-0"



N

1 POWERHOUSE BOILER ROOM PLUMBING PLAN - ALTERNATE 1
1/4" = 1'-0"

KEY PLAN



GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. **BALANCING CONTRACTOR SHALL COMPLETE (2) BALANCING PASSES THROUGH FULL HOT WATER RECIRCULATION SYSTEM TO ENSURE PROPER FLOW RATE ALL BALANCING VALVES AND AT RECIRCULATION PUMP AND TO ENSURE THAT THE SYSTEM IS PROPERLY MAINTAINING THE TEMPERATURE OF THE WATER IN THE HOT WATER MAINS.**

D. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

E. ALL ACCESS AND SITE TRANSPORTATION COORDINATON SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.

F. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

G. VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

H. INSTALLATION PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR TO VERIFY PLACEMENT OF NEW EQUIPMENT PRIOR TO INSTALLATION.

I. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL EQUIPMENT AND ABOVE ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING IN CLEARANCE SPACE.

J. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH EXISTING CONDITIONS, BUILDING STRUCTURE, LOCAL PLUMBING CODE AND THE SPECIFICATIONS TO ALLOW FOR PROPER CLEARANCES. MAKE NECESSARY OFFSETS AS REQUIRED.

K. PROVIDE ISOLATION BALL VALVES ON BRANCH PIPING TAPS FROM MAIN ON ALL COLD AND HOT WATER PIPES. ENSURE VALVES ARE INSTALLED IN ACCESSIBLE LOCATIONS.

L. ALL VALVES AND OTHER PIPING ACCESSORIES REMOVED AS PART OF DEMOLITION SCOPE SHALL BE REPLACED IN NEW WORK UNLESS NOTED OTHERWISE.

REFERENCED NOTES

P13 CONNECT NEW HOT WATER PIPING UPSTREAM OF EXISTING FLANGE, BALL VALVE, AND UNION ASSEMBLY AND CAP WATER TIGHT AT EXISTING FLANGE.

P26 PROVIDE NEW CIRCULATION PUMP MOUNTED TO WALL NORTH OF EXISTING PUMP TO BE REMOVED. INSTALL NEW PUMP PER INLINE PUMP DETAIL. COORDINATE ELECTRICAL REQUIREMENTS AND PHASING WITH ELECTRICAL CONTRACTOR.

P27 CONNECT NEW HOT WATER RECIRCULATION PIPING INTO EXISTING CW PIPING AT SAME LOCATION AS EXISTING RECIRCULATION TIE-IN POINT. PROVIDE NEW METALIC ISOLATION BALL VALVE AT NEW CONNECTION TO REPLACE EXISTING PVC VALVE.

P28 NEW PIPING FROM NEW CONNECTION IN POWERHOUSE TO ISOLATION VALVES SERVING EAST AND WEST WING MAIN PIPING WITHIN TUNNEL (INCLUDING ALL BRANCH TAKE-OFFS WITHIN TUNNEL) SHALL BE INSTALLED, CAPPED, FLUSHED, AND DISINFECTED PER SPECIFICATIONS PRIOR TO ANY CONNECTIONS TO EXISTING PIPING SYSTEMS OR REMOVAL OF ANY EXISTING PIPING. COORDINATE FINAL CONNECTIONS TO EXISTING PIPING WITH FACILITY AND CONSTRUCTION MANAGER TO ACCOMODATE FACILITY OPERATIONS AND MINIMIZE DOWNTIME.

P31 INSTALL NEW DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

P32 INSTALL NEW DOMESTIC HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMDI
WATERLOO | DES MOINES | IOWA CITY
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WATERLOO, IA 50703 | DES MOINES, IA 50309 | IOWA CITY, IA 52240
(319)235-0650 | (515)251-7280 | (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

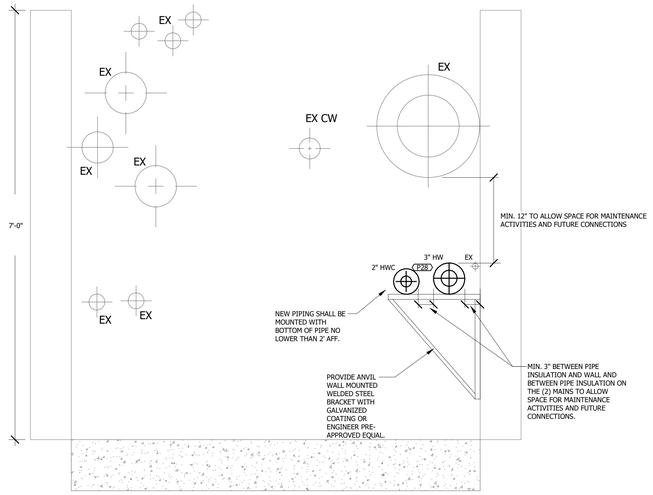
PROJECT NUMBER:
25-182

DATE:
2026.01.29

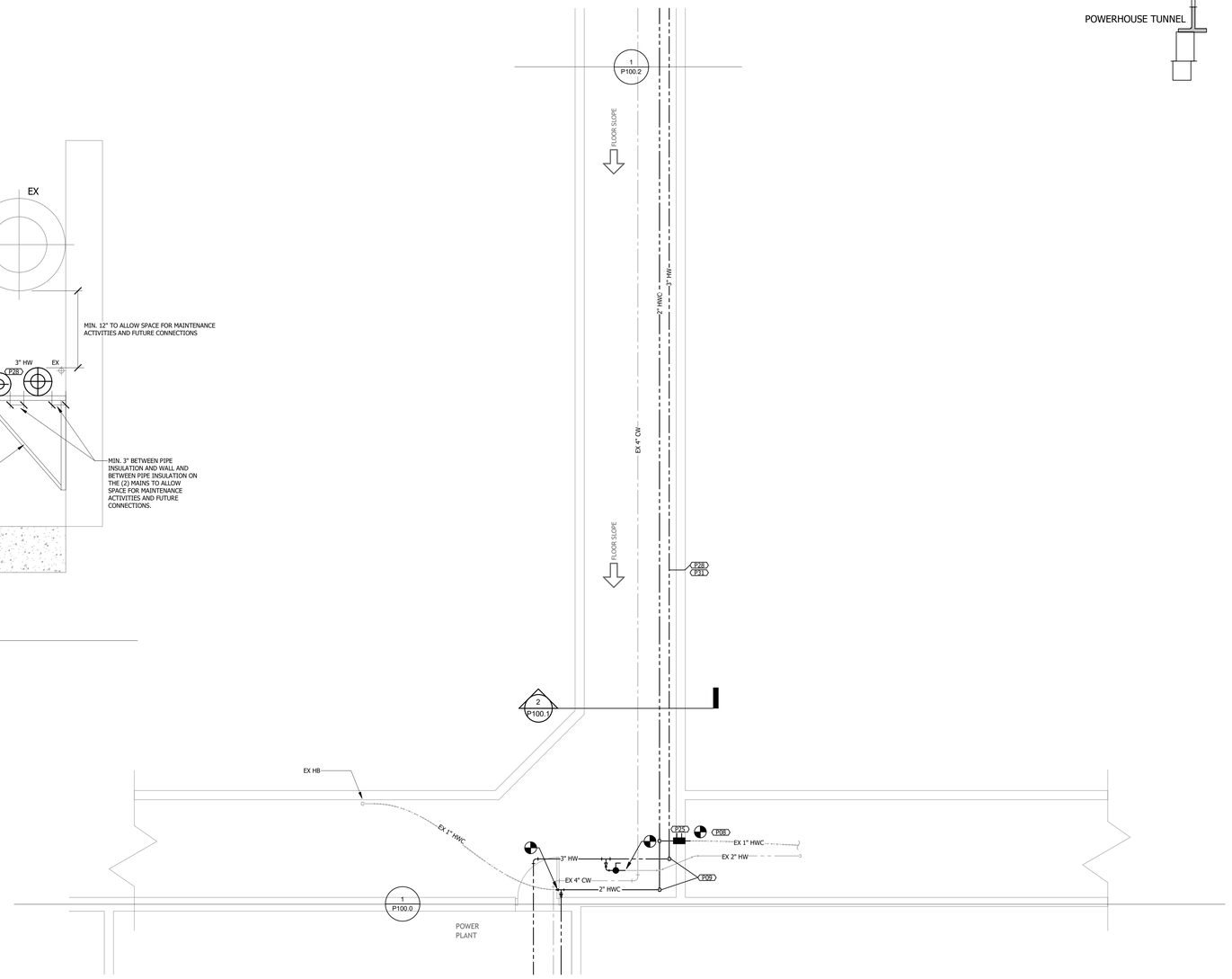
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
POWERHOUSE PLUMBING PLANS - ALTERNATE 1

SHEET:
P100.0A



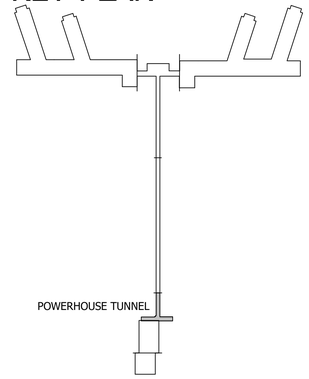
2 TUNNEL SECTION 1
1" = 1'-0"



N

1 TUNNEL PLUMBING PLAN - AT POWERHOUSE
1/4" = 1'-0"

KEY PLAN



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REFERENCED NOTES

P08 PROVIDE NEW BRANCH PIPING AND ISOLATION BALL VALVE TO RECONNECT EXISTING BRANCH. REFER TO EACH INSTANCE ON PLANS FOR INDIVIDUAL BRANCH AND VALVE SIZING.

P09 PROVIDE NEW 1" DRAIN WITH BALL VALVE AND 3/4" HOSE CONNECTION.

P25 ADJUST BALANCING VALVE TO ACHIEVE A FLOW RATE OF 4 GPM.

P28 NEW PIPING FROM NEW CONNECTION IN POWERHOUSE TO ISOLATION VALVES SERVING EAST AND WEST WING MAIN PIPING WITHIN TUNNEL (INCLUDING ALL BRANCH TAKE-OFFS WITHIN TUNNEL) SHALL BE INSTALLED, CAPPED, FLUSHED, AND DISINFECTED PER SPECIFICATIONS PRIOR TO ANY CONNECTIONS TO EXISITNG PIPING SYSTEMS OR REMOVAL OF ANY EXISTING PIPING. COORDINATE FINAL CONNECTIONS TO EXISTING PIPING WITH FACILITY AND CONSTRUCTION MANAGER TO ACCOMODATE FACILITY OPERATIONS AND MINIMIZE DOWNTIME.

P31 INSTALL NEW DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

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MMS CONSULTANTS
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REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

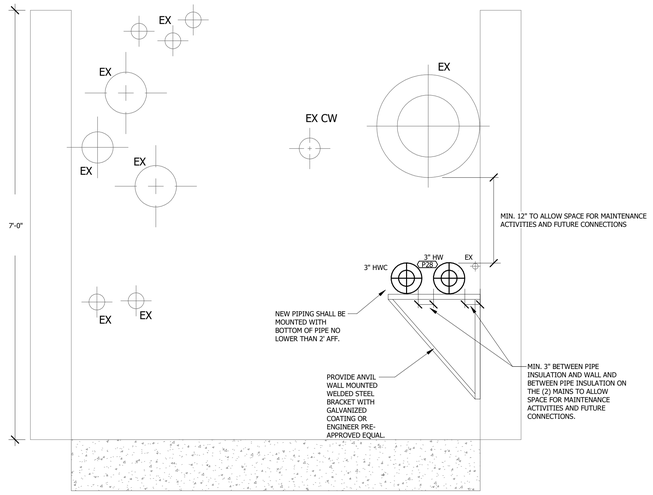
PROJECT NUMBER:
25-182

DATE:
2026.01.29

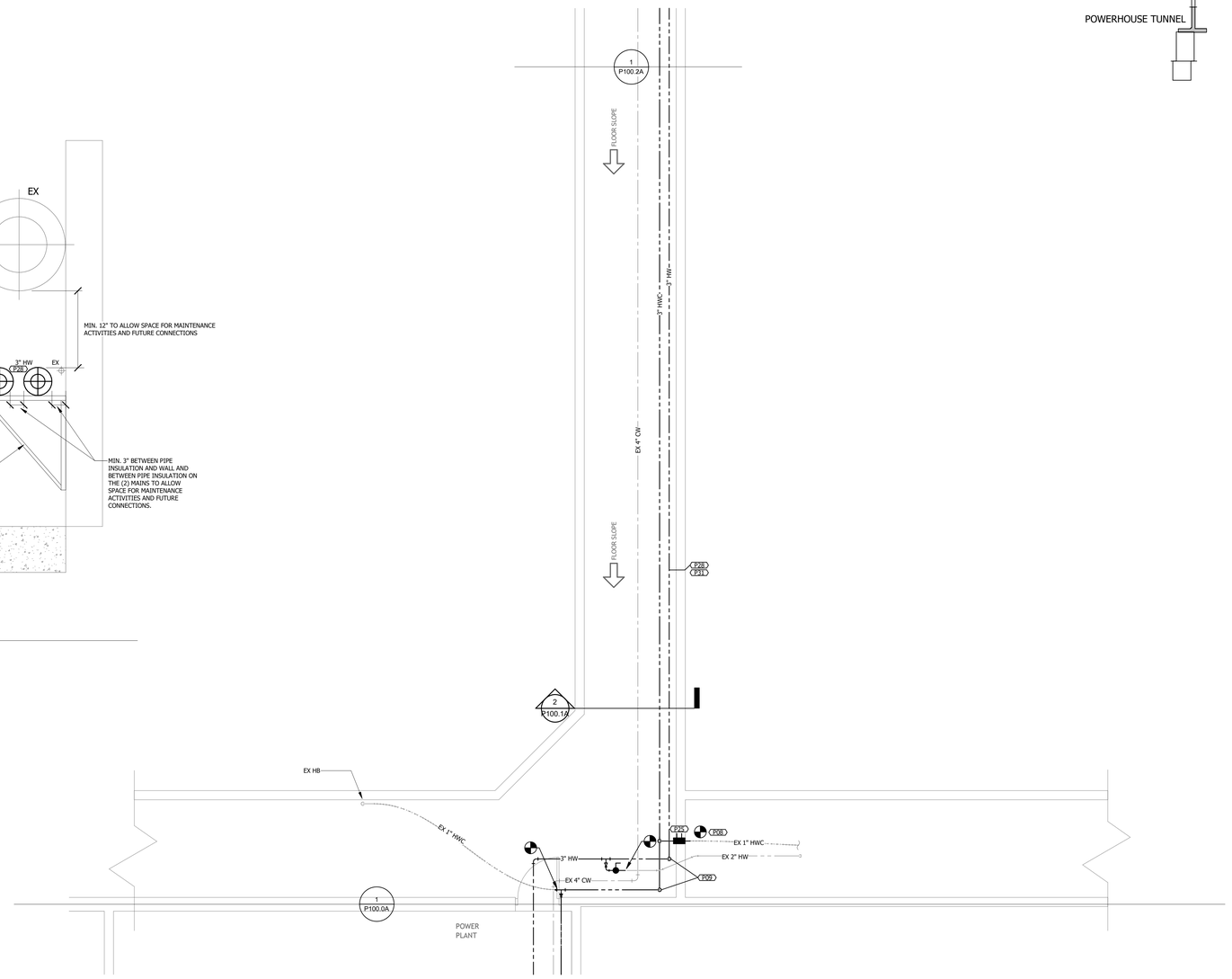
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING PLAN - AT POWERHOUSE

SHEET:
P100.1



2 TUNNEL SECTION 1 - ALTERNATE 1
1" = 1'-0"



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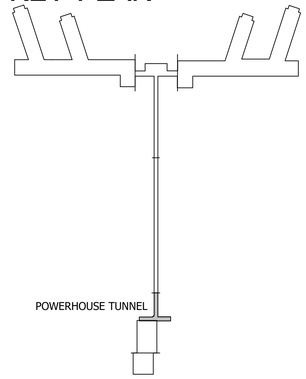
1 TUNNEL PLUMBING PLAN - AT POWERHOUSE - ALTERNATE 1
1/4" = 1'-0"

KEY PLAN



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MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

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25-182

DATE:
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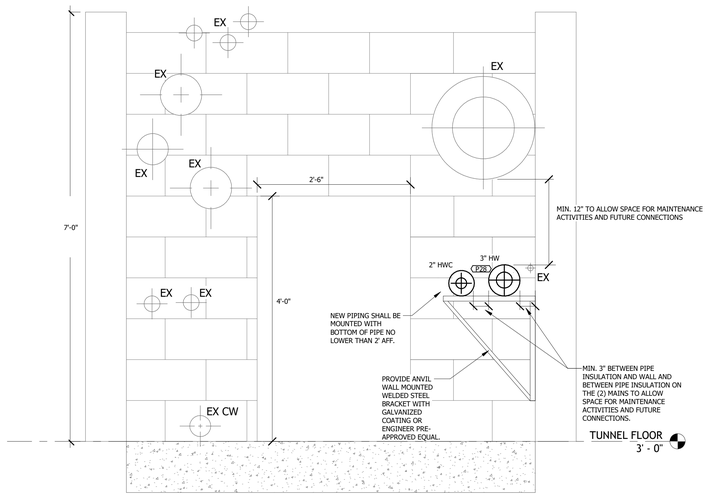
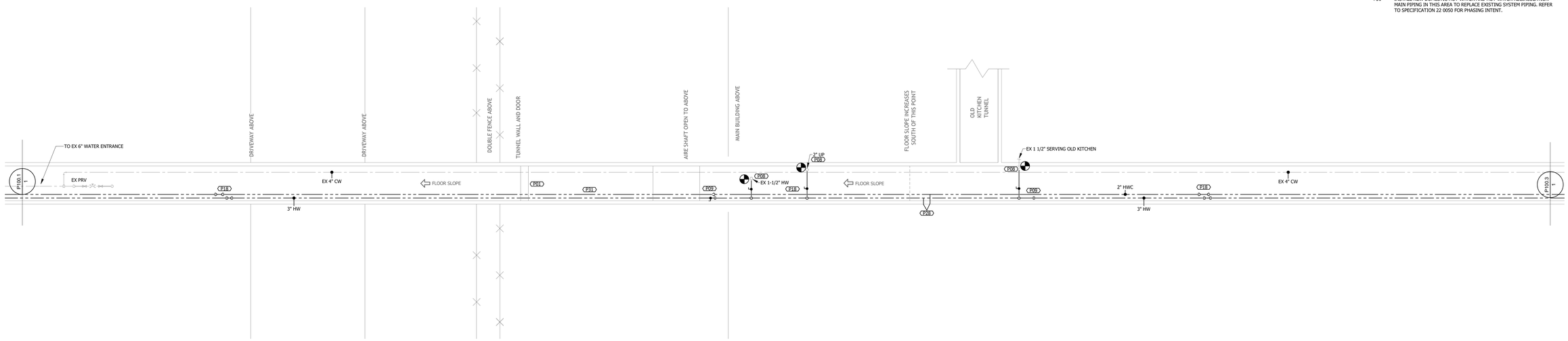
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING PLAN - AT POWERHOUSE - ALTERNATE 1

SHEET:
P100.1A

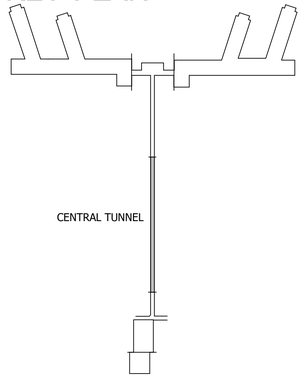


2 TUNNEL SECTION 2
1" = 1'-0"



N 1 TUNNEL PLUMBING PLAN - CENTER
1/8" = 1'-0"

KEY PLAN



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REFERENCED NOTES

P01 SECURITY GATE AT THIS LOCATION. SECURITY ESCORT FOR ALL WORK NORTH OF THIS POINT IS REQUIRED.

P08 PROVIDE NEW BRANCH PIPING AND ISOLATION BALL VALVE TO RECONNECT EXISTING BRANCH. REFER TO EACH INSTANCE ON PLANS FOR INDIVIDUAL BRANCH AND VALVE SIZING.

P09 PROVIDE NEW 1" DRAIN WITH BALL VALVE AND 3/4" HOSE CONNECTION.

P18 PROVIDE NEW VERTICALLY ORIENTED FLEXIBLE EXPANSION LOOP ON HOT WATER AND HOT WATER RECIRCULATION PIPING IN THIS AREA WITH BOTTOM OF LOOP BELOW PIPE. INSTALL EXPANSION LOOP PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

P28 NEW PIPING FROM NEW CONNECTION IN POWERHOUSE TO ISOLATION VALVES SERVING EAST AND WEST WING MAIN PIPING WITHIN TUNNEL (INCLUDING ALL BRANCH TAKE-OFFS WITHIN TUNNEL) SHALL BE INSTALLED, CAPPED, FLUSHED, AND DISINFECTED PER SPECIFICATIONS PRIOR TO ANY CONNECTIONS TO EXISTING PIPING SYSTEMS OR REMOVAL OF ANY EXISTING PIPING. COORDINATE FINAL CONNECTIONS TO EXISTING PIPING WITH FACILITY AND CONSTRUCTION MANAGER TO ACCOMODATE FACILITY OPERATIONS AND MINIMIZE DOWNTIME.

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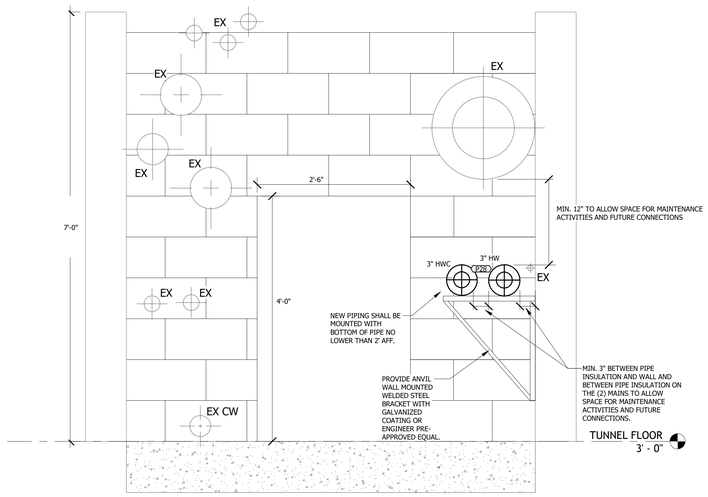
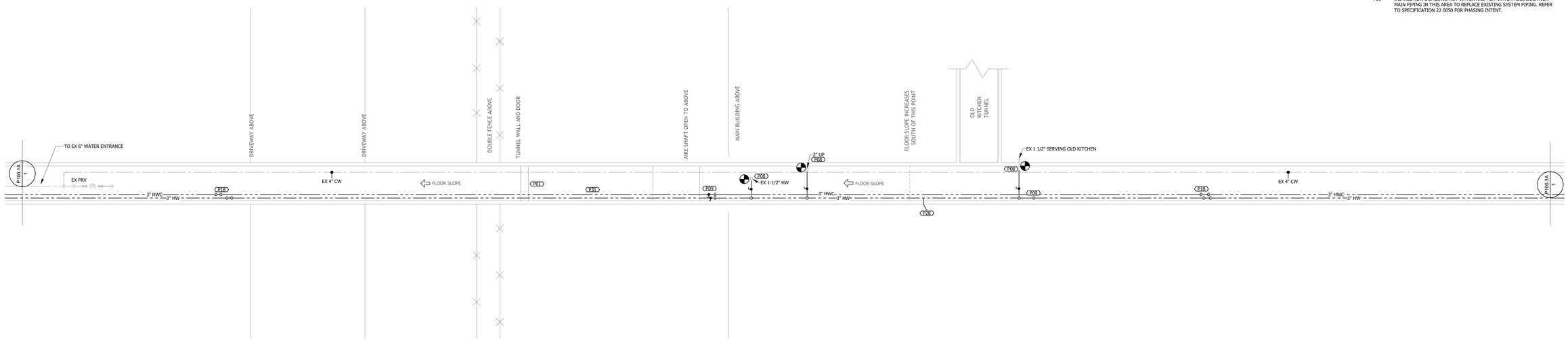
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING PLAN - CENTRAL

SHEET:
P100.2

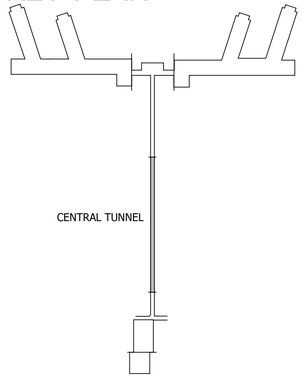


2 TUNNEL SECTION 2 - ALTERNATE 1
1" = 1'-0"



N 1 TUNNEL PLUMBING PLAN - CENTER - ALTERNATE 1
1/8" = 1'-0"

KEY PLAN



GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. **BALANCING CONTRACTOR SHALL COMPLETE (2) BALANCING PASSES THROUGH FULL HOT WATER RECIRCULATION SYSTEM TO ENSURE PROPER FLOW RATE ALL BALANCING VALVES AND AT RECIRCULATION PUMP AND TO ENSURE THAT THE SYSTEM IS PROPERLY MAINTAINING THE TEMPERATURE OF THE WATER IN THE HOT WATER MAINS.**

D. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

E. **ALL ACCESS AND SITE TRANSPORTATION COORDINATON SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.**

F. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

G. VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

H. INSTALLATION PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR TO VERIFY PLACEMENT OF NEW EQUIPMENT PRIOR TO INSTALLATION.

I. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL EQUIPMENT AND ABOVE ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING IN CLEARANCE SPACE.

J. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH EXISTING CONDITIONS, BUILDING STRUCTURE, LOCAL PLUMBING CODE AND THE SPECIFICATIONS TO ALLOW FOR PROPER CLEARANCES. MAKE NECESSARY OFFSETS AS REQUIRED.

K. PROVIDE ISOLATION BALL VALVES ON BRANCH PIPING TAPS FROM MAIN ON ALL COLD AND HOT WATER PIPES. ENSURE VALVES ARE INSTALLED IN ACCESSIBLE LOCATIONS.

L. ALL VALVES AND OTHER PIPING ACCESSORIES REMOVED AS PART OF DEMOLITION SCOPE SHALL BE REPLACED IN NEW WORK UNLESS NOTED OTHERWISE.

REFERENCED NOTES

P01 SECURITY GATE AT THIS LOCATION. SECURITY ESCORT FOR ALL WORK NORTH OF THIS POINT IS REQUIRED.

P08 PROVIDE NEW BRANCH PIPING AND ISOLATION BALL VALVE TO RECONNECT EXISTING BRANCH. REFER TO EACH INSTANCE ON PLANS FOR INDIVIDUAL BRANCH AND VALVE SIZING.

P09 PROVIDE NEW 1" DRAIN WITH BALL VALVE AND 3/4" HOSE CONNECTION.

P18 PROVIDE NEW VERTICALLY ORIENTED FLEXIBLE EXPANSION LOOP ON HOT WATER AND HOT WATER RECIRCULATION PIPING IN THIS AREA WITH BOTTOM OF LOOP BELOW PIPE. INSTALL EXPANSION LOOP PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

P28 NEW PIPING FROM NEW CONNECTION IN POWERHOUSE TO ISOLATION VALVES SERVING EAST AND WEST WING MAIN PIPING WITHIN TUNNEL (INCLUDING ALL BRANCH TAKE-OFFS WITHIN TUNNEL) SHALL BE INSTALLED, CAPPED, FLUSHED, AND DISINFECTED PER SPECIFICATIONS PRIOR TO ANY CONNECTIONS TO EXISTING PIPING SYSTEMS OR REMOVAL OF ANY EXISTING PIPING. COORDINATE FINAL CONNECTIONS TO EXISTING PIPING WITH FACILITY AND CONSTRUCTION MANAGER TO ACCOMODATE FACILITY OPERATIONS AND MINIMIZE DOWNTIME.

P31 INSTALL NEW DOMESTIC HOT WATER AND HOT WATER RECIRCULATION MAIN PIPING IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

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WATERLOO, IA 50703 | DES MOINES, IA 50314 | IOWA CITY, IA 52240
(319)235-0650 | (515)251-7280 | (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

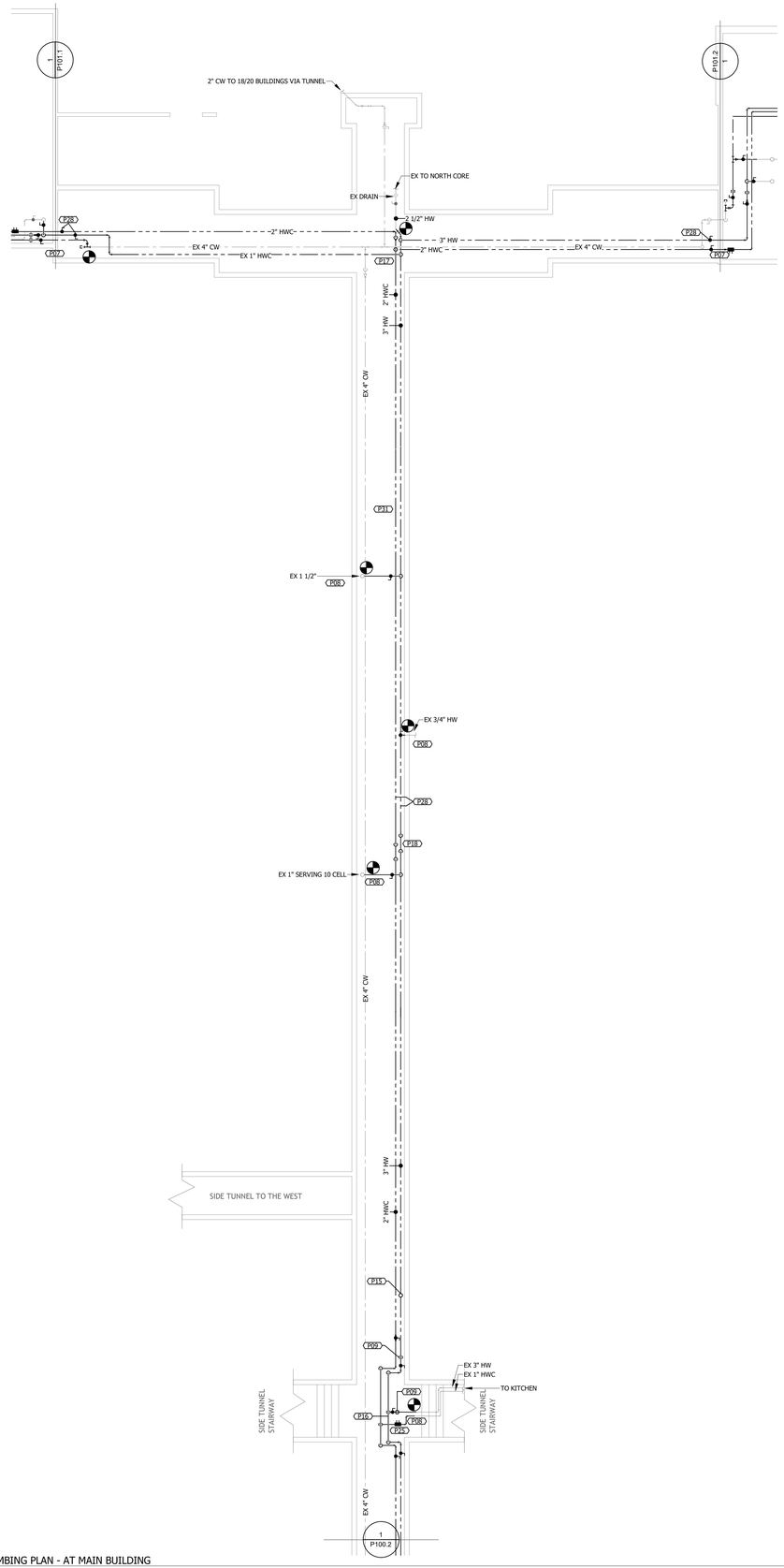
PROJECT NUMBER:
25-182

DATE:
2026.01.29

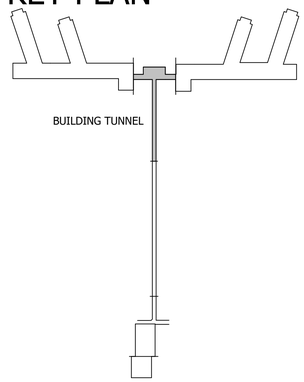
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING PLAN - CENTRAL - ALTERNATE 1

SHEET:
P100.2A



KEY PLAN



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P15 PROVIDE SHORT VERTICAL BRANCH WITH NEW BALL VALVE AND MULTIPLE-TURN VALVED HOSE CONNECTION TO MATCH BRANCH TO BE REMOVED.

P16 OFFSET PIPING HORIZONTALLY AND VERTICALLY AS NECESSARY TO MAXIMIZE ACCESSIBILITY FROM SIDE TUNNEL STAIRWAY. PIPING SHOULD STAY AS CLOSE TO EAST WALL AND TUNNEL CEILING AS POSSIBLE.

P17 COORDINATE NEW HOT WATER AND HOT WATER RECIRCULATION MAIN ROUTING WITH EXISTING IN THIS AREA TO ROUTE AS TIGHT TO TUNNEL CEILING AS POSSIBLE.

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CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

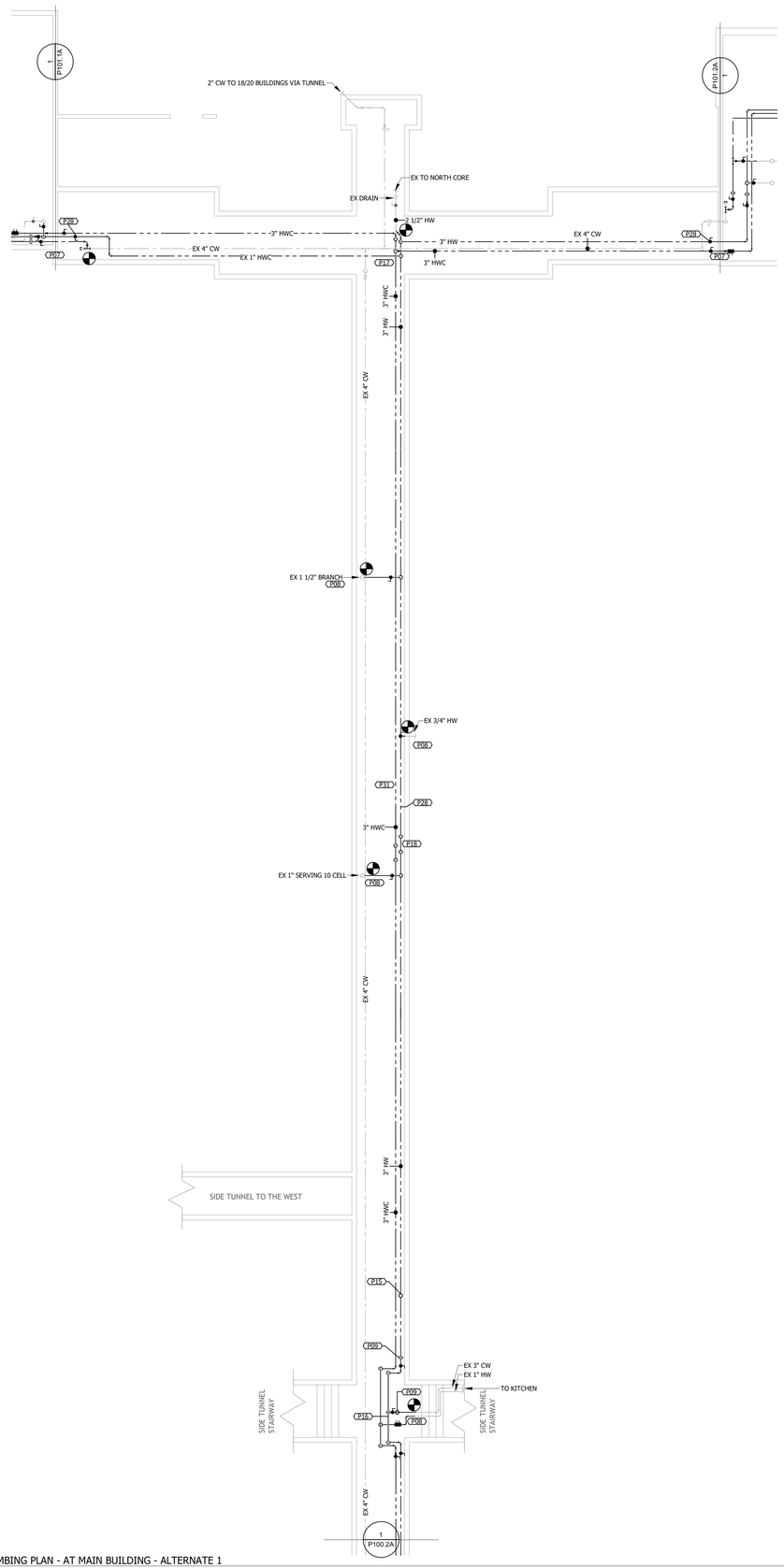
PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING PLAN - AT MAIN BUILDING

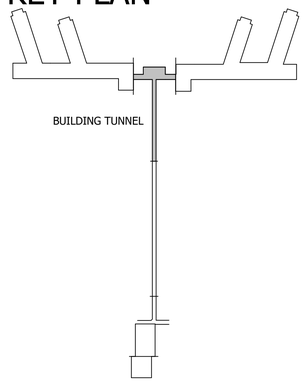
SHEET:
P100.3



N

1 TUNNEL PLUMBING PLAN - AT MAIN BUILDING - ALTERNATE 1
1/8" = 1'-0"

KEY PLAN



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CONSULTANTS:

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DESCRIPTION	DATE	NO.

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MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

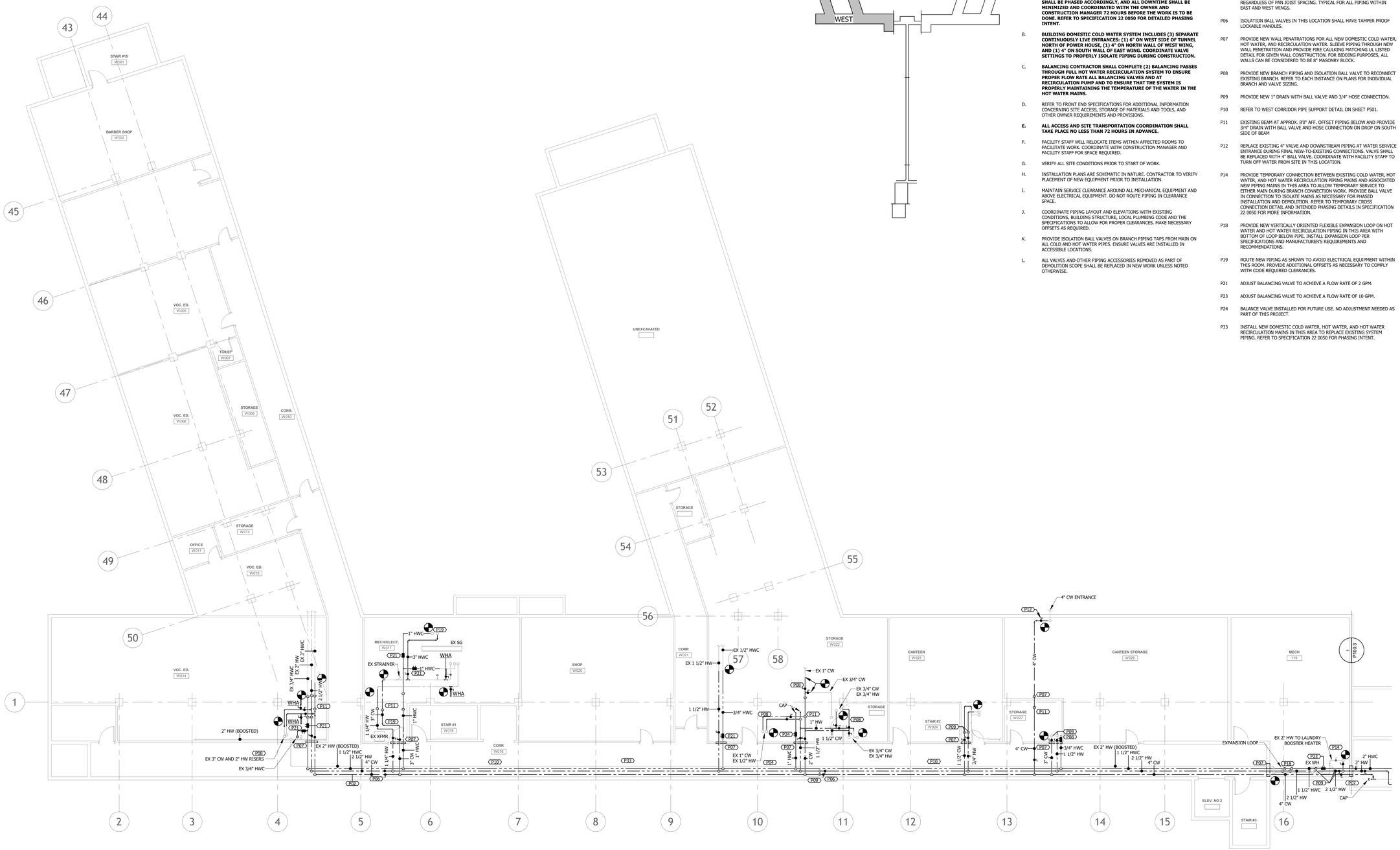
PROJECT NUMBER:
25-182

DATE:
2026.01.29

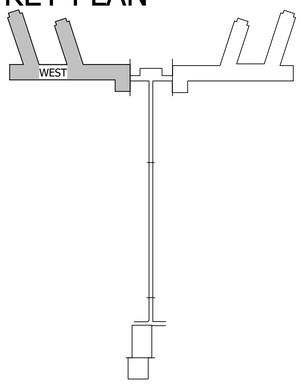
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
TUNNEL PLUMBING PLAN - AT MAIN BUILDING - ALTERNATE 1

SHEET:
P100.3A



KEY PLAN



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L. ALL VALVES AND OTHER PIPING ACCESSORIES REMOVED AS PART OF DEMOLITION SCOPE SHALL BE REPLACED IN NEW WORK UNLESS NOTED OTHERWISE.

REFERENCED NOTES

P02 OFFSET PIPING UP AS NECESSARY TO AVOID CONFLICT WITH SECURITY CAMERA.

P04 COORDINATE HANGER SPACING TO MEET OR EXCEED SPECIFIED SPACING REGARDLESS OF PAN JOIST SPACING. TYPICAL FOR ALL PIPING WITHIN EAST AND WEST WINGS.

P06 ISOLATION BALL VALVES IN THIS LOCATION SHALL HAVE TAMPER PROOF LOCKABLE HANDLES.

P07 PROVIDE NEW WALL PENATRATIONS FOR ALL NEW DOMESTIC COLD WATER, HOT WATER, AND RECIRCULATION WATER. SLEEVE PIPING THROUGH NEW WALL PENETRATION AND PROVIDE FIRE CAULKING MATCHING UL LISTED DETAIL FOR GIVEN WALL CONSTRUCTION. FOR BIDDING PURPOSES, ALL WALLS CAN BE CONSIDERED TO BE 8" MASONRY BLOCK.

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P09 PROVIDE NEW 1" DRAIN WITH BALL VALVE AND 3/4" HOSE CONNECTION.

P10 REFER TO WEST CORRIDOR PIPE SUPPORT DETAIL ON SHEET P501.

P11 EXISTING BEAM AT APPROX. 8'0" AFF. OFFSET PIPING BELOW AND PROVIDE 3/4" DRAIN WITH BALL VALVE AND HOSE CONNECTION ON DROP ON SOUTH SIDE OF BEAM

P12 REPLACE EXISTING 4" VALVE AND DOWNSTREAM PIPING AT WATER SERVICE ENTRANCE DURING FINAL NEW-TO-EXISTING CONNECTIONS. VALVE SHALL BE REPLACED WITH 4" BALL VALVE. COORDINATE WITH FACILITY STAFF TO TURN OFF WATER FROM SITE IN THIS LOCATION.

P14 PROVIDE TEMPORARY CONNECTION BETWEEN EXISTING COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING MAINS AND ASSOCIATED NEW PIPING MAINS IN THIS AREA TO ALLOW TEMPORARY SERVICE TO EITHER MAIN DURING BRANCH CONNECTION WORK. PROVIDE BALL VALVE IN CONNECTION TO ISOLATE MAINS AS NECESSARY FOR PHASED INSTALLATION AND DEMOLITION. REFER TO TEMPORARY CROSS CONNECTION DETAIL AND INTENDED PHASING DETAILS IN SPECIFICATION 22 0050 FOR MORE INFORMATION.

P18 PROVIDE NEW VERTICALLY ORIENTED FLEXIBLE EXPANSION LOOP ON HOT WATER AND HOT WATER RECIRCULATION PIPING IN THIS AREA WITH BOTTOM OF LOOP BELOW PIPE. INSTALL EXPANSION LOOP PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

P19 ROUTE NEW PIPING AS SHOWN TO AVOID ELECTRICAL EQUIPMENT WITHIN THIS ROOM. PROVIDE ADDITIONAL OFFSETS AS NECESSARY TO COMPLY WITH CODE REQUIRED CLEARANCES.

P21 ADJUST BALANCING VALVE TO ACHIEVE A FLOW RATE OF 2 GPM.

P23 ADJUST BALANCING VALVE TO ACHIEVE A FLOW RATE OF 10 GPM.

P24 BALANCE VALVE INSTALLED FOR FUTURE USE. NO ADJUSTMENT NEEDED AS PART OF THIS PROJECT.

P33 INSTALL NEW DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION MAINS IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

N

1 WEST WING PLUMBING PLAN
1/8" = 1'-0"

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(319)235-0650 (515)251-7280 (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

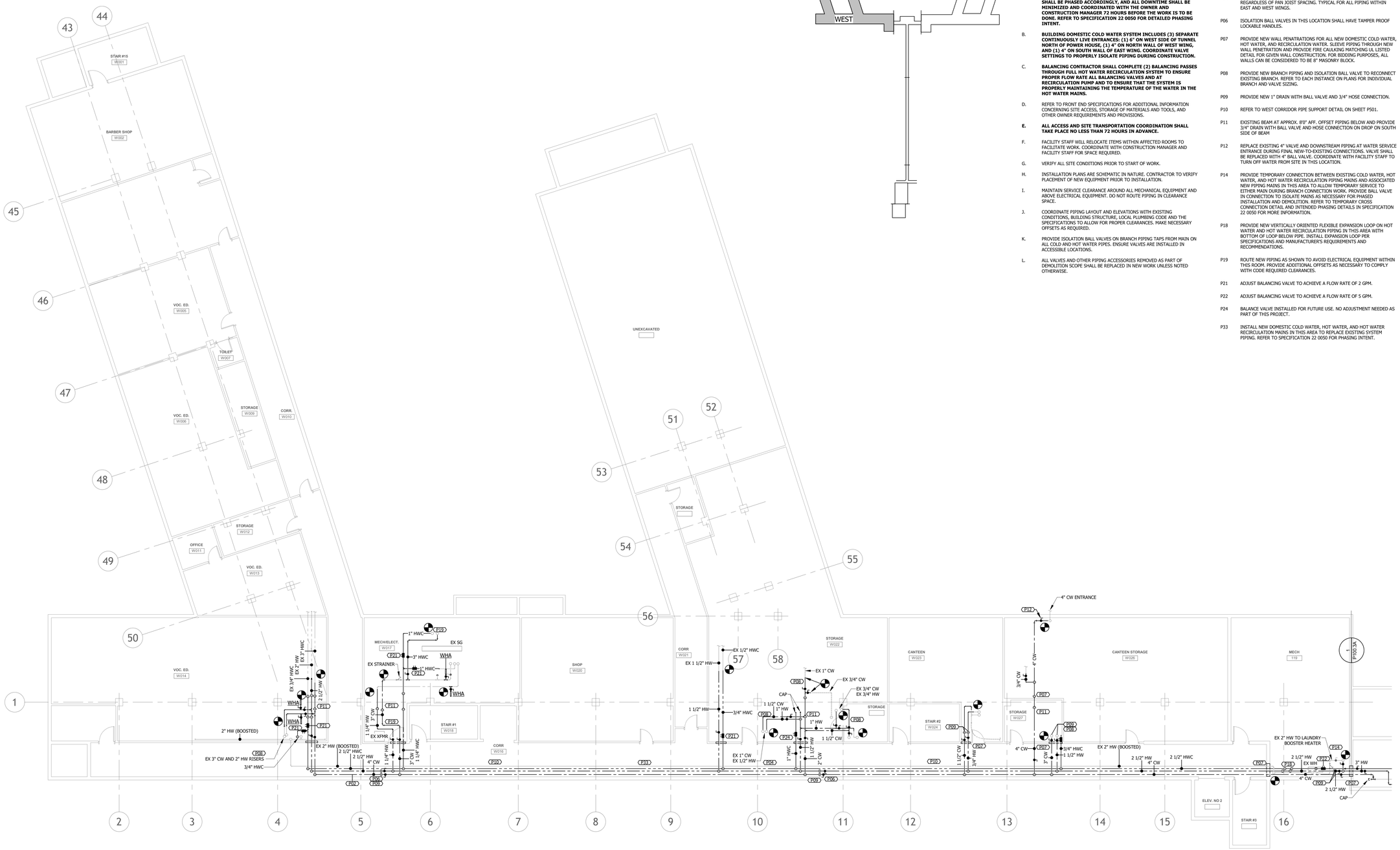
PROJECT NUMBER:
25-182

DATE:
2026.01.29

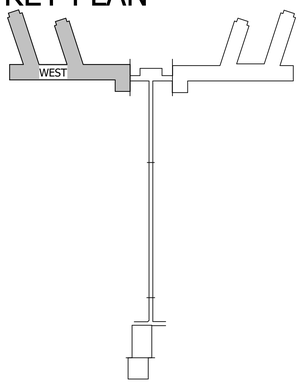
SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
WEST WING PLUMBING PLAN

SHEET:
P101.1



KEY PLAN



GENERAL NOTES:

A. **FACILITY DOMESTIC WATER SERVICES (CW, HW, AND HWC) SHALL BE MAINTAINED AT ALL FIXTURES THROUGHOUT THE DURATION OF THE PROJECT EXCEPT DURING THE COMPLETION OF NEW CONNECTIONS TO EXISTING PIPING. INSTALLATION OF NEW PIPING SHALL BE PHASED ACCORDINGLY, AND ALL DOWNTIME SHALL BE MINIMIZED AND COORDINATED WITH THE OWNER AND CONSTRUCTION MANAGER 72 HOURS BEFORE THE WORK IS TO BE DONE. REFER TO SPECIFICATION 22 0050 FOR DETAILED PHASING INTENT.**

B. **BUILDING DOMESTIC COLD WATER SYSTEM INCLUDES (3) SEPARATE CONTINUOUSLY LIVE ENTRANCES: (1) 6" ON WEST SIDE OF TUNNEL NORTH OF POWER HOUSE, (1) 4" ON NORTH WALL OF WEST WING, AND (1) 4" ON SOUTH WALL OF EAST WING. COORDINATE VALVE SETTINGS TO PROPERLY ISOLATE PIPING DURING CONSTRUCTION.**

C. **BALANCING CONTRACTOR SHALL COMPLETE (2) BALANCING PASSES THROUGH FULL HOT WATER RECIRCULATION SYSTEM TO ENSURE PROPER FLOW RATE ALL BALANCING VALVES AND AT RECIRCULATION PUMP AND TO ENSURE THAT THE SYSTEM IS PROPERLY MAINTAINING THE TEMPERATURE OF THE WATER IN THE HOT WATER MAINS.**

D. REFER TO FRONT END SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING SITE ACCESS, STORAGE OF MATERIALS AND TOOLS, AND OTHER OWNER REQUIREMENTS AND PROVISIONS.

E. ALL ACCESS AND SITE TRANSPORTATION COORDINATION SHALL TAKE PLACE NO LESS THAN 72 HOURS IN ADVANCE.

F. FACILITY STAFF WILL RELOCATE ITEMS WITHIN AFFECTED ROOMS TO FACILITATE WORK. COORDINATE WITH CONSTRUCTION MANAGER AND FACILITY STAFF FOR SPACE REQUIRED.

G. VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK.

H. INSTALLATION PLANS ARE SCHEMATIC IN NATURE. CONTRACTOR TO VERIFY PLACEMENT OF NEW EQUIPMENT PRIOR TO INSTALLATION.

I. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL EQUIPMENT AND ABOVE ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING IN CLEARANCE SPACE.

J. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH EXISTING CONDITIONS, BUILDING STRUCTURE, LOCAL PLUMBING CODE AND THE SPECIFICATIONS TO ALLOW FOR PROPER CLEARANCES. MAKE NECESSARY OFFSETS AS REQUIRED.

K. PROVIDE ISOLATION BALL VALVES ON BRANCH PIPING TAPS FROM MAIN ON ALL COLD AND HOT WATER PIPES. ENSURE VALVES ARE INSTALLED IN ACCESSIBLE LOCATIONS.

L. ALL VALVES AND OTHER PIPING ACCESSORIES REMOVED AS PART OF DEMOLITION SCOPE SHALL BE REPLACED IN NEW WORK UNLESS NOTED OTHERWISE.

REFERENCED NOTES

P02 OFFSET PIPING UP AS NECESSARY TO AVOID CONFLICT WITH SECURITY CAMERA.

P04 COORDINATE HANGER SPACING TO MEET OR EXCEED SPECIFIED SPACING REGARDLESS OF PAN JOIST SPACING. TYPICAL FOR ALL PIPING WITHIN EAST AND WEST WINGS.

P06 ISOLATION BALL VALVES IN THIS LOCATION SHALL HAVE TAMPER PROOF LOCKABLE HANDLES.

P07 PROVIDE NEW WALL PENATRATIONS FOR ALL NEW DOMESTIC COLD WATER, HOT WATER, AND RECIRCULATION WATER. SLEEVE PIPING THROUGH NEW WALL PENETRATION AND PROVIDE FIRE CAULKING MATCHING UL LISTED DETAIL FOR GIVEN WALL CONSTRUCTION. FOR BIDDING PURPOSES, ALL WALLS CAN BE CONSIDERED TO BE 8" MASONRY BLOCK.

P08 PROVIDE NEW BRANCH PIPING AND ISOLATION BALL VALVE TO RECONNECT EXISTING BRANCH. REFER TO EACH INSTANCE ON PLANS FOR INDIVIDUAL BRANCH AND VALVE SIZING.

P09 PROVIDE NEW 1" DRAIN WITH BALL VALVE AND 3/4" HOSE CONNECTION.

P10 REFER TO WEST CORRIDOR PIPE SUPPORT DETAIL ON SHEET P501.

P11 EXISTING BEAM AT APPROX. 8'0" AFF. OFFSET PIPING BELOW AND PROVIDE 3/4" DRAIN WITH BALL VALVE AND HOSE CONNECTION ON DROP ON SOUTH SIDE OF BEAM

P12 REPLACE EXISTING 4" VALVE AND DOWNSTREAM PIPING AT WATER SERVICE ENTRANCE DURING FINAL NEW-TO-EXISTING CONNECTIONS. VALVE SHALL BE REPLACED WITH 4" BALL VALVE. COORDINATE WITH FACILITY STAFF TO TURN OFF WATER FROM SITE IN THIS LOCATION.

P14 PROVIDE TEMPORARY CONNECTION BETWEEN EXISTING COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING MAINS AND ASSOCIATED NEW PIPING MAINS IN THIS AREA TO ALLOW TEMPORARY SERVICE TO EITHER MAIN DURING BRANCH CONNECTION WORK. PROVIDE BALL VALVE IN CONNECTION TO ISOLATE MAINS AS NECESSARY FOR PHASED INSTALLATION AND DEMOLITION. REFER TO TEMPORARY CROSS CONNECTION DETAIL AND INTENDED PHASING DETAILS IN SPECIFICATION 22 0050 FOR MORE INFORMATION.

P18 PROVIDE NEW VERTICALLY ORIENTED FLEXIBLE EXPANSION LOOP ON HOT WATER AND HOT WATER RECIRCULATION PIPING IN THIS AREA WITH BOTTOM OF LOOP BELOW PIPE. INSTALL EXPANSION LOOP PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

P19 ROUTE NEW PIPING AS SHOWN TO AVOID ELECTRICAL EQUIPMENT WITHIN THIS ROOM. PROVIDE ADDITIONAL OFFSETS AS NECESSARY TO COMPLY WITH CODE REQUIRED CLEARANCES.

P21 ADJUST BALANCING VALVE TO ACHIEVE A FLOW RATE OF 2 GPM.

P22 ADJUST BALANCING VALVE TO ACHIEVE A FLOW RATE OF 5 GPM.

P24 BALANCE VALVE INSTALLED FOR FUTURE USE. NO ADJUSTMENT NEEDED AS PART OF THIS PROJECT.

P33 INSTALL NEW DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION MAINS IN THIS AREA TO REPLACE EXISTING SYSTEM PIPING. REFER TO SPECIFICATION 22 0050 FOR PHASING INTENT.

N

1 WEST WING PLUMBING PLAN - ALTERNATE 1
1/8" = 1'-0"

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

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1200 E Washington St, Mt Pleasant, IA 52641

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25-182

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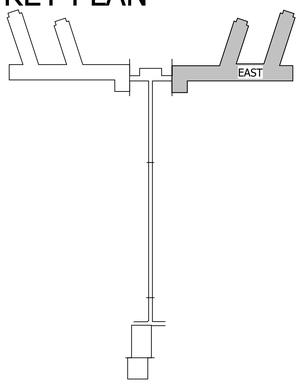
WEST WING PLUMBING PLAN - ALTERNATE 1

SHEET:
P101.1A

KEY PLAN



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P03 PROVIDE ALL NEW HANGERS FOR NEW PIPING NORTH OF EXISTING TO ALLOW FOR NEW CONNECTION/EXISTING DEMOLITION PHASING. TYPICAL FOR ENTIRETY OF EAST-WEST MAIN PIPE ROUTING.

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P20 ADJUST BALANCING VALVE TO ACHIEVE A FLOW RATE OF 0.75 GPM.

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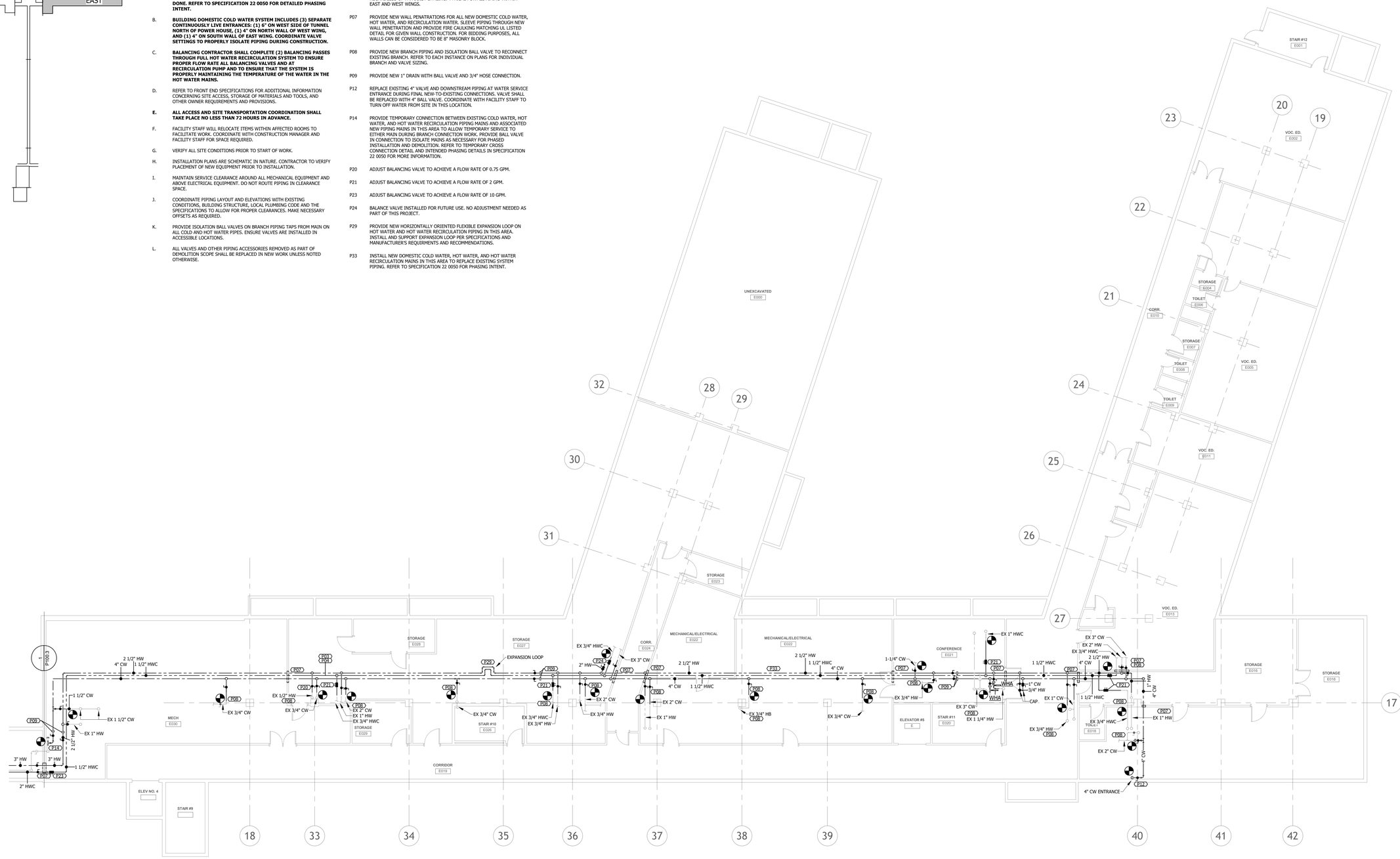

N

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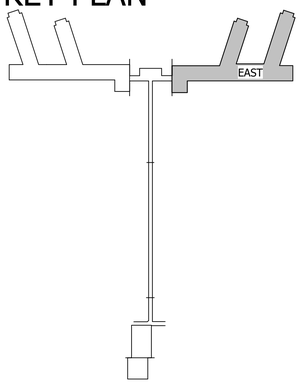
SHEET NAME:
EAST WING PLUMBING PLAN

SHEET:
P101.2

KEY PLAN



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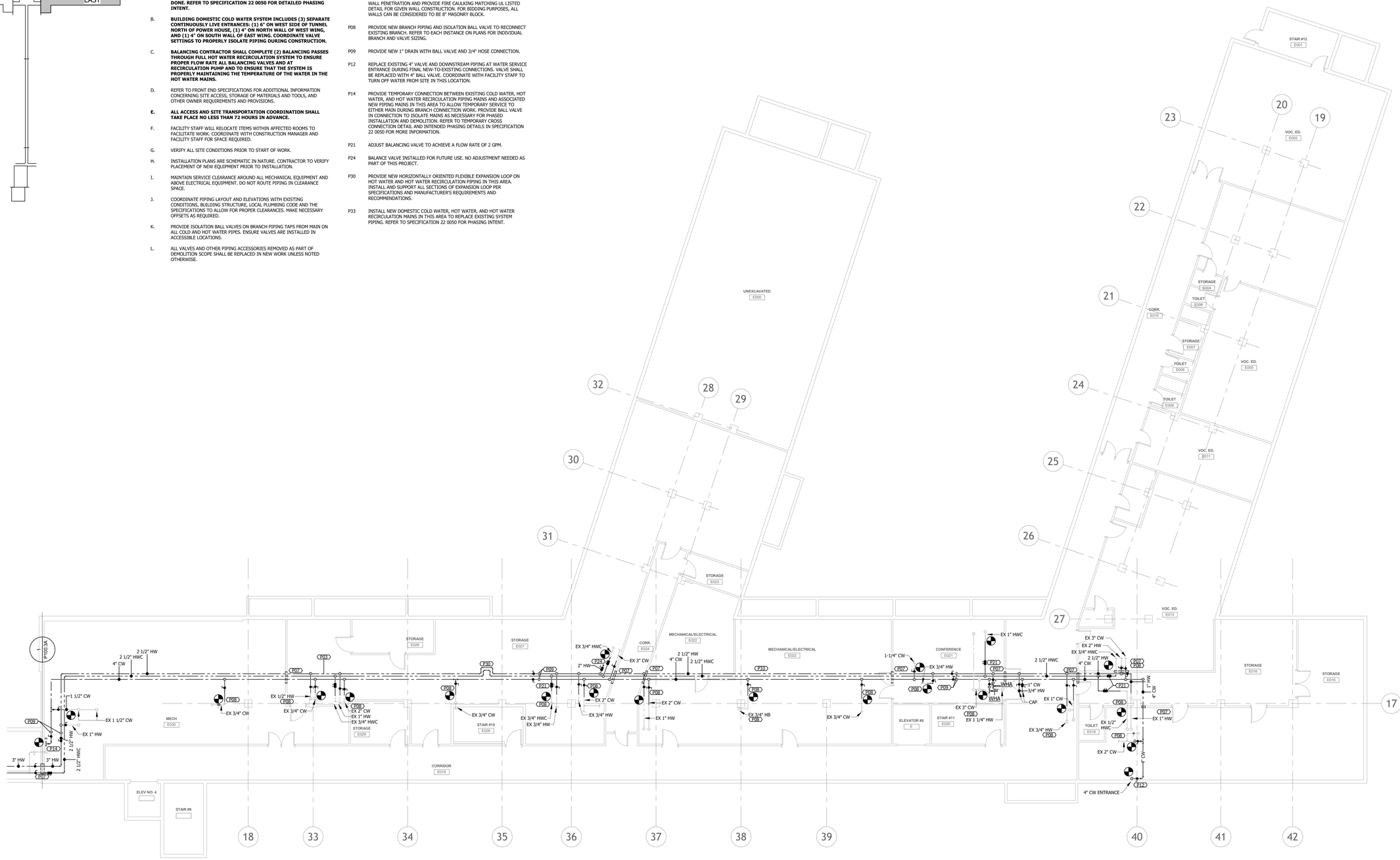

N

1 EAST WING PLUMBING PLAN - ALTERNATE 1
1/8" = 1'-0"

NOTE:
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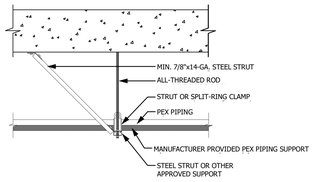
SHEET NAME:
EAST WING PLUMBING PLAN - ALTERNATE 1

SHEET:
P101.2A

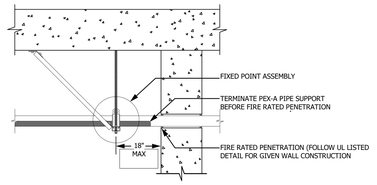
PUMP SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	SYSTEM	LOCATION	FLUID TYPE	MATERIAL	FLUID TEMP (°F)	FLOW RATE (GPM)	TOTAL HEAD (FT)	EFFICIENCY @ DUTY POINT (%)	MOTOR INPUT POWER AT DUTY POINT (HP)	MOTOR HP	IMPELLER MATERIAL	SPEED (RPM)	MOTOR TYPE	ELECTRICAL	
																MOCP	VOLTAGE/ PHASE
CP-1	BELL&GOSSETT	ECOCIRC XL 65-130 3ph	HOT WATER RECIRCULATION	BOILER ROOM - POWER HOUSE	POTABLE WATER	LEAD FREE - STAINLESS STEEL	120	26	40	23.5	0.778	1.0	STAINLESS STEEL	2984	ECM	15	208/3

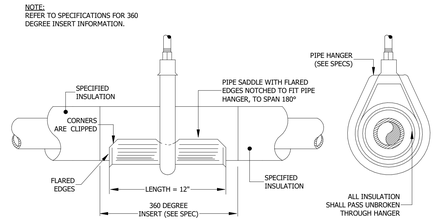
NOTES:
1. PUMP SHALL BE SET TO MAINTAIN A CONSTANT TEMPERATURE OF 100 DEGREES AT PUMP'S INTEGRAL TEMPERATURE SENSOR.
2. PROVIDE PUMP WITH ALL REQUIRED MOUNTING ACCESSORIES TO FACILITATE MOUNTING TO WALL.
3. PROVIDE PUMP WITH ALL REQUIRED ACCESSORIES TO PROVIDE CONSTANT SPEED OPERATION WITHOUT INTEGRATION TO A BUILDING CONTROL SYSTEM.
4. COORDINATE PUMP POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING PUMP. REVISE PUMP MODEL TO ACCOMMODATE EXISTING ELECTRICAL CIRCUIT AS NECESSARY.



1 ALTERNATE 1 - PEX FIXED POINT INSTALLATION DETAIL
No Scale



2 ALTERNATE 1 - PEX PIPE SUPPORT AT WALL PENETRATION DETAIL
No Scale



3 INSULATED PIPE HANGER DETAIL
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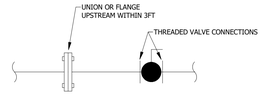
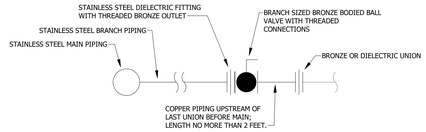
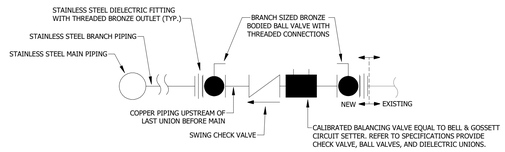


4 TYPICAL VALVE DETAIL
No Scale



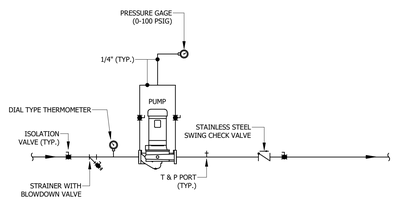
NOTES:
1. SEE PLANS FOR INDIVIDUAL BRANCH SIZING.
2. EXISTING DOMESTIC COLD WATER BRANCHES MAY BE GALVANIZED STEEL AND REQUIRE A DIELECTRIC UNION DOWNSTREAM OF VALVE.
3. ALL BRONZE FITTINGS, VALVES, AND UNIONS SHALL BE LISTED AS NSF 61/372 LEAD-FREE.
4. **ALTERNATE 1:** NEW PIPE MATERIAL CHANGES TO PEX AND DIELECTRIC FITTINGS SHALL BE REMOVED FROM SCOPE. BALL VALVES SHALL STILL BE BRONZE WITH THREADED CONNECTIONS.

5 TYPICAL HOT WATER/COLD WATER BRANCH CONNECTION DETAIL
No Scale



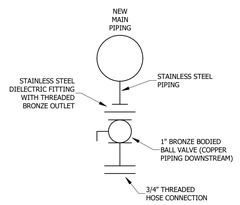
NOTES:
1. SEE PLANS FOR INDIVIDUAL BRANCH SIZING.
3. ALL BRONZE FITTINGS, VALVES, AND UNIONS SHALL BE LISTED AS NSF 61/372 LEAD-FREE.
4. **ALTERNATE 1:** NEW PIPE MATERIAL CHANGES TO PEX AND DIELECTRIC FITTINGS SHALL BE REMOVED FROM SCOPE. BALL VALVES SHALL STILL BE BRONZE WITH THREADED CONNECTIONS.

6 TYPICAL HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL
No Scale

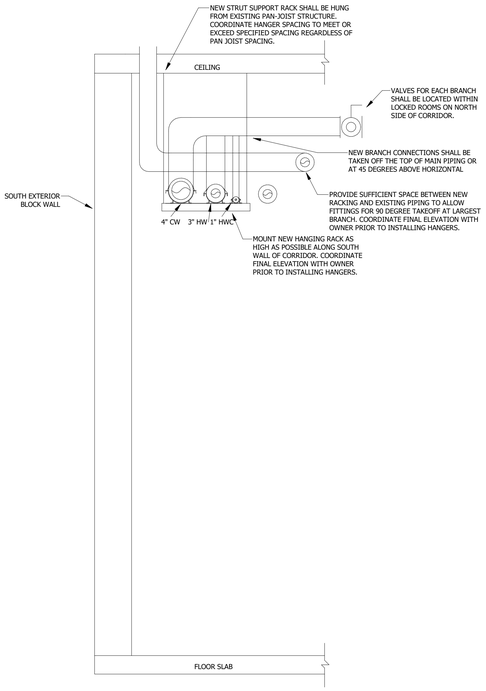


NOTES:
1. SUPPORT PUMP PER MANUFACTURER'S INSTALLATION REQUIREMENTS. IF THOSE REQUIREMENTS ARE NOT STATED, SUPPORT PUMP BODY WITH FLOOR SUPPORTS OR HANGERS THAT CONTACT THE BODY ON THE WATER ENTERING AND WATER LEAVING SIDES.

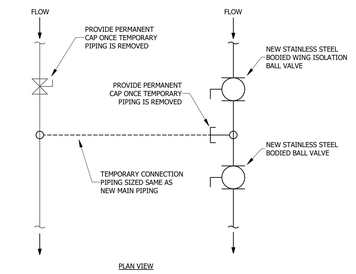
8 IN-LINE PUMP DETAIL
No Scale



9 PIPING DRAIN DETAIL
No Scale



7 WEST CORRIDOR PIPE SUPPORT DETAIL
1/8" = 1'-0"



10 TEMPORARY CROSS CONNECTION DETAIL
No Scale

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. | 130 EAST 3RD ST. | 118 EAST COLLEGE ST.
P.O. BOX 1047 | P.O. BOX 1047 | P.O. BOX 1004
WATERLOO, IA 50704 | DES MOINES, IA 50304 | IOWA CITY, IA 52244
(319)235-0650 | (515)251-7280 | (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
PLUMBING DETAILS AND SCHEDULES

SHEET:
P501

DEMOLITION GENERAL NOTES:

A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

B. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

C. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL MECHANICAL EQUIPMENT TO BE REMOVED.

D. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.

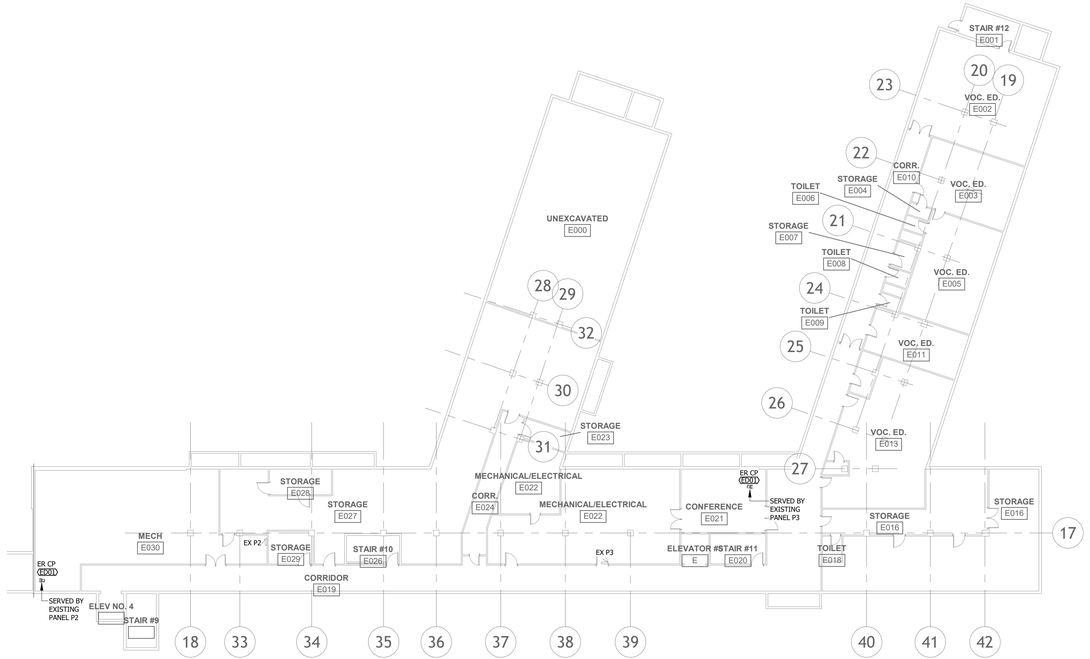
E. EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

REFERENCED NOTES

ED01 REMOVE EXISTING WIRING, ACCESSORIES, AND CONDUIT STRICTLY SERVING EXISTING PUMP BACK TO PANEL AND UPDATE CIRCUIT TO SPARE IN PANEL DIRECTORY.

N

2 WEST WING ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"



N

1 EAST WING ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. | 130 EAST 3RD ST. | 119 EAST COLLEGE ST.
WATERLOO, IA 50703 | DES MOINES, IA 50309 | IOWA CITY, IA 52240
(319)235-0650 | (515)251-7280 | (319)248-4600

CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
PRISON FACILITY ELECTRICAL DEMOLITION PLANS

SHEET:
ED101.0

DEMOLITION GENERAL NOTES:

A. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.

B. REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

C. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL MECHANICAL EQUIPMENT TO BE REMOVED.

D. MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.

E. EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.

REFERENCED NOTES

E01 CONNECT NEW ECM RECIRCULATION PUMP WITH INTEGRAL MOTOR STARTER TO EXISTING CIRCUIT SERVING REMOVED PUMP. PROVIDE NEW DISCONNECT.

ED02 REMOVE WIRING, CONDUIT, AND DEVICES SERVING EXISTING PUMP TO BE REMOVED BACK TO PANEL AND INCLUDING LOCAL DISCONNECT. PREPARE EXISTING WIRING FOR NEW PUMP CONNECTION SHOWN IN NEW WORK.

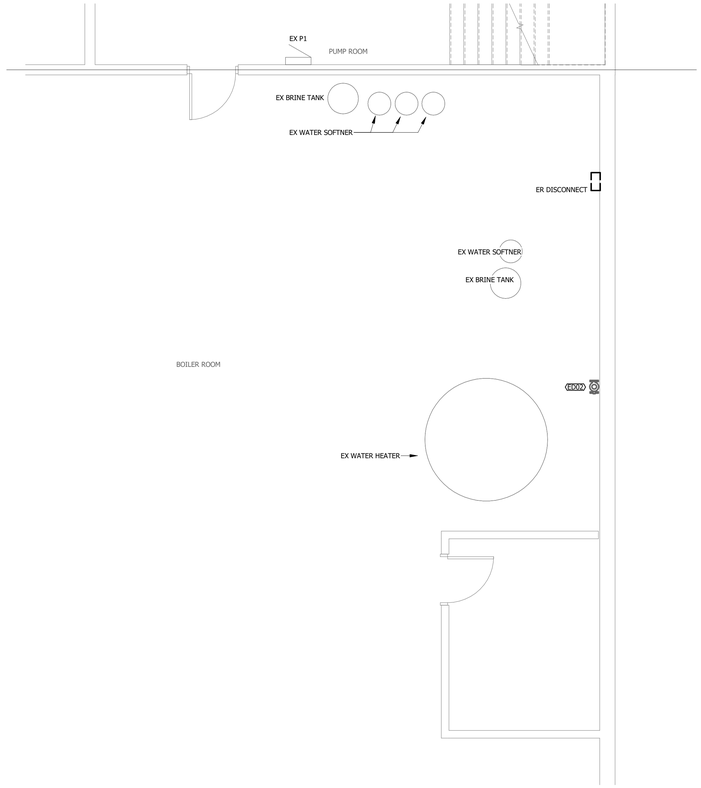
GENERAL NOTES:

A. ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.

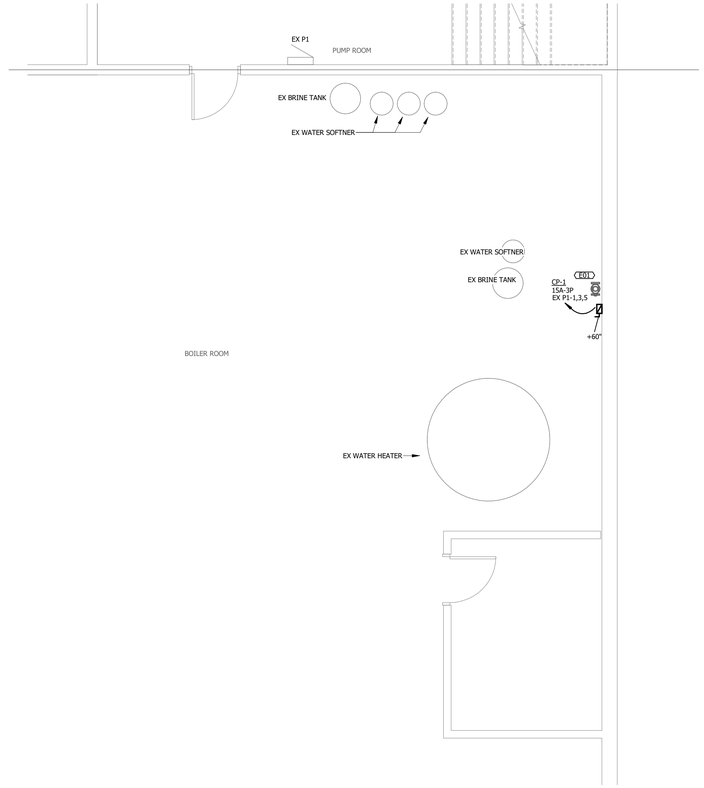
B. MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.

CONDUCTOR AND CONDUIT
SIZING CHART

	CONDUCTORS (THWN-2)			CONDUIT		PARALLEL RUNS
	PHASE	NEUTRAL	GROUND	EMT	SCH 40	
15/3	(3) #12 AWG	-	#12 AWG	3/4"	3/4"	1
20/3	(3) #12 AWG	-	#12 AWG	3/4"	3/4"	1



2 BOILER ROOM ELECTRICAL PLAN
1/4" = 1'-0"



1 BOILER ROOM ELECTRICAL DEMOLITION PLANS
1/4" = 1'-0"

NOTE:
VERIFY BUILDING DIMENSIONS FOR ROUGH-IN

MMS CONSULTANTS
WATERLOO | DES MOINES | IOWA CITY
214 EAST 4TH ST. | 130 EAST 3RD ST. | 118 EAST COLLEGE ST.
WATERLOO, IA 50703 | DES MOINES, IA 50309 | IOWA CITY, IA 52240
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CONSULTANTS:

REVISION SCHEDULE

DESCRIPTION	DATE	NO.

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES PROJECT #9502.00

MOUNT PLEASANT CORRECTIONAL FACILITY HOT AND COLD WATER MAIN REPLACEMENT

1200 E Washington St, Mt Pleasant, IA 52641

PROJECT NUMBER:
25-182

DATE:
2026.01.29

SHEET SET:
100% CONSTRUCTION DOCUMENTS

SHEET NAME:
POWERHOUSE ELECTRICAL PLANS

SHEET:
E100.0