

GENERAL NOTES

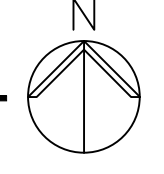
- A. THIS DRAWING IS BASED ON SITE PLANS PROVIDED BY OTHERS, AND MAY NOT SHOW EXACT LOCATION OF EXISTING EQUIPMENT, UTILITIES ETC. CONTRACTOR SHALL FIELD INVESTIGATE AND CONFIRM/VERIFY CONDITIONS. THIS DRAWING PROVIDED FOR ORIENTATION AND INFORMATIONAL PURPOSES - DO NOT SCALE.
- B. ALL EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION UNLESS NOTED OTHERWISE.
- C. ALL EXISTING DISTURBED GROUND, ASPHALT, SIDEWALKS, CURBS AND GUTTERS ETC. SHALL BE REPAIRED TO MATCH EXISTING. CONTRACTOR SHALL RE-GRADE, RE-FEED/BRING ALL AREAS TO PRESENT "LIKE NEW" CONDITION UPON COMPLETION OF PROJECT.
- D. PRIOR TO BEGINNING EXTERIOR DIGGING/TRENCHING THE CONTRACTOR SHALL PERFORM GPR (GROUND PENETRATING RADAR) OF THE PROPOSED AREA PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL AVOID ANY EXISTING UTILITIES OR OBSTRUCTIONS WHEN INSTALLING UNDERGROUND INSTALLATION.
- E. REFER TO DRAWING E-901 FOR PICTURE INFORMATION OF EXISTING JUNCTION BOX NO. 3.
- F. THE CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY OF EXTERIOR LIGHT FIXTURES THROUGHOUT WHEN DISCONNECTING AND REMOVING LIGHT FIXTURES.

G. REFER TO CIVIL DRAWING CD101 FOR EXACT LOCATION OF EXISTING MEDIUM VOLTAGE AND LOW VOLTAGE COMMUNICATIONS CABLING CONDUITS AND DUCTWORK.

KEY NOTES

- 1. APPROXIMATE LOCATION OF EXISTING MEDIUM VOLTAGE JUNCTION BOX NO. 3. THE CONTRACTOR SHALL DISCONNECT, REMOVE AND REPLACE WITH NEW AT EXACT SAME LOCATION. REFER TO DRAWING ES101 FOR ADDITIONAL INFORMATION OF NEW J-BOX. REFER TO DRAWING E-901 FOR PICTURE INFORMATION OF EXISTING JUNCTION BOX NO. 3.
- 2. APPROXIMATE LOCATION OF EXISTING ELECTRICAL DUCT-BANK, NO WORK REQUIRED, SHOWN FOR REFERENCE ONLY.
- 3. APPROXIMATE LOCATION OF EXISTING COMMUNICATION CABLING, NO WORK REQUIRED, SHOWN FOR REFERENCE ONLY.
- 4. FIBER OPTIC CABLE IS EXISTING TO REMAIN, SHOWN FOR REFERENCE ONLY. FIBER OPTIC CABLE SERVICES THE STATE RADIO/EMERGENCY RADIO EQUIPMENT.
- 5. THE CONTRACTOR SHALL DISCONNECT, REMOVE, AND RETURN TO OWNER, EXISTING LIGHT POLE.
- 6. LIGHT POLE IS EXISTING TO REMAIN.
- 7. APPROXIMATE LOCATION OF EXISTING UNDERGROUND CONCRETE CELL-DUCT SYSTEM WITH MEDIUM VOLTAGE FEEDERS CONDUCTORS WITHIN PVC CONDUIT SYSTEM. THE EXACT ROUTING PATH OF EXISTING CONCRETE CELL-DUCT AND FEEDER CONDUCTORS SHALL BE CLEARLY IDENTIFIED. REFER TO DRAWING ES101 FOR NEW ROUTING PATH FOR CONCRETE CELL-DUCT AND FEEDER CONDUCTORS. AND CIVIL DRAWING CD101 FOR ADDITIONAL INFORMATION.
- 8. LOCATION OF EXISTING UTILITY TRANSFORMER "T-29", THE CONTRACTOR SHALL DISCONNECT FEEDER CONDUCTORS FROM EXISTING TRANSFORMER. REFER TO DRAWING ES101 FOR ADDITIONAL INFORMATION.
- 9. THE CONTRACTOR SHALL DISCONNECT FEEDER CONDUCTORS FROM JUNCTION BOX NO. 3, TO ACCOMMODATE INSTALLATION OF NEW JUNCTION BOX, REFER TO DRAWING ES101 FOR ADDITIONAL INFORMATION.
- 10. ONCE THE WORK HAS BEGUN OF DISCONNECTING FEEDER CONDUCTORS BETWEEN TRANSFORMER "T-29" AND MEDIUM VOLTAGE JUNCTION BOX NO. 3, IT SHALL CONTINUE UNTIL WORK IS COMPLETED WITH NO INTERRUPTIONS. THIS SCOPE OF WORK SHALL BE COMPLETED DURING OFF HOURS. REFER TO DRAWING ES101 FOR ADDITIONAL INFORMATION.
- 11. APPROXIMATE LOCATION OF EXISTING CONCRETE CELL-DUCT COMMUNICATIONS SYSTEM. THE CONTRACTOR SHALL DISCONNECT DUCT-BANK AND INSTALL NEW, REFER TO DRAWING ES101 FOR ADDITIONAL INFORMATION. REFER TO DRAWING CD101 FOR EXACT LOCATION OF DUCT-BANK.

1 ELECTRICAL DEMOLITION - SITE PLAN
SCALE 1/32" = 1'-0"



ADDENDUM 1	08-09-2024
ADDENDUM 4	02-07-2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Architecture | Engineering | Design-Build
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STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase
ELECTRICAL DEMOLITION - SITE PLAN	100% CONSTRUCTION DOCUMENTS
Approved: Project Director	

Project Title	Project Number
SIoux FALLS BOILER PLANT	438-22-900
Location	Building Number
VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	12
Issue Date	Checked
06/25/2024	WLM
Drawn	KMB

Project Title	Project Number
SIoux FALLS BOILER PLANT	438-22-900
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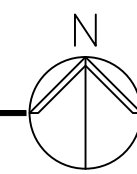
ELECTRICAL LIGHTING GENERAL NOTES

- REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- REFER TO ELECTRICAL DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- REFER TO LUMINAIRE SCHEDULE ON DRAWING EL501 FOR MANUFACTURER AND MODEL NUMBERS OF LUMINAIRES.
- CIRCUIT NUMBERS SHOWN NEXT TO LIGHTING CONTROLS OR LUMINAIRES INDICATE PANEL NAME AND CIRCUIT USED TO POWER LIGHTING IN THE AREA SHOWN.
- REFER TO LIGHTING CALCULATION ON DRAWING EL508 FOR LIGHTING PHOTOMETRY INFORMATION.
- THE CONTRACTOR SHALL PERFORM GROUND PENETRATING RADAR PRIOR TO WORKING ON EXTERIOR OF BUILDING.
- REFER TO POLE DETAIL 6 ON DRAWING EL501 FOR ADDITIONAL INFORMATION.
- ROUTING PATH OF CONDUIT IS DIAGRAMMATIC ONLY, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE EXACT ROUTING PATH.
- CONDUIT INSTALLED OUT DOORS SHALL BE INSTALLED IN RIGID STEEL CONDUIT UNLESS NOTED OTHERWISE.
- NO TRENCHING PERMITTED, ALL UNDERGROUND INSTALLATIONS SHALL BE BORE DRILLED.

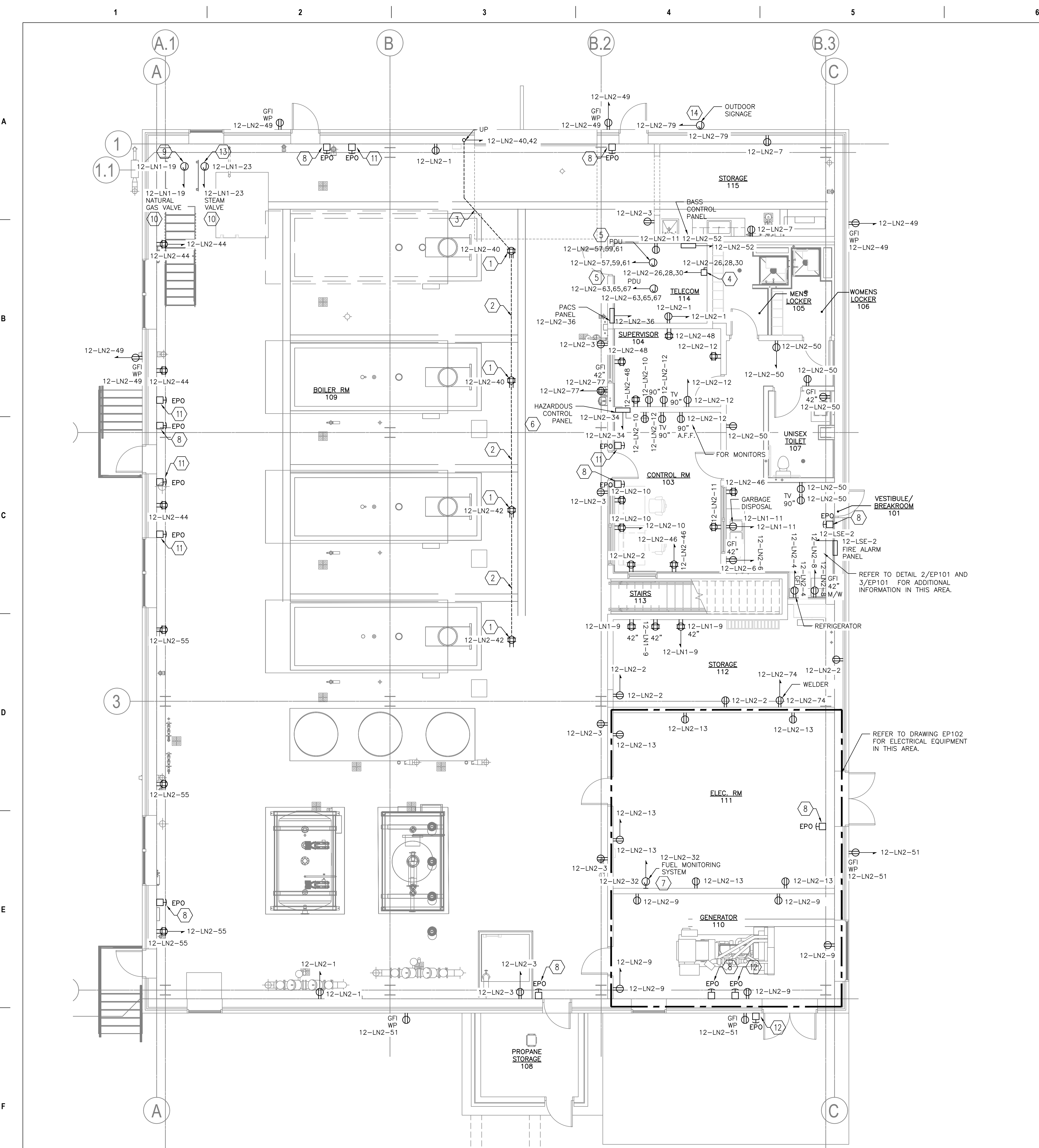
ELECTRICAL LIGHTING KEY NOTES

- THE CONTRACTOR SHALL PROVIDE PHOTOCCELL, MOUNT AS HIGH AS POSSIBLE.
- THE CONTRACTOR SHALL ROUTE 2 #8 AND 1 #8 GND. IN 1 1/4" RIGID STEEL CONDUIT.
- PROVIDE 1 1/4" RIGID STEEL "LB" MOUNTED ON SIDE OF BUILDING.
- ROUTE CIRCUITING THROUGH TIMECLOCK "TC-1" AND LIGHTING CONTACTOR "LC-1", REFER TO DETAIL 4/EL503 FOR ADDITIONAL INFORMATION.
- REFER TO POLE BASE DETAIL 6/EL501 FOR MOUNTING REQUIREMENTS.
- PROVIDE 3/4" RIGID STEEL "LB", MOUNT ON SIDE OF BUILDING.
- ROUTE RIGID STEEL CONDUIT UP HIGH ALONG CEILING AND OVER TO PANEL AS INDICATED.
- THE CONTRACTOR SHALL PROVIDE LIGHTING CONTACTOR "LC-1", IT SHALL BE 4-POLE, 120 VOLT CONTACTS, 120 VOLT COIL, ELECTRICALLY HELD.
- THE CONTRACTOR SHALL PROVIDE PROGRAMMABLE DIGITAL TIMECLOCK AS INDICATED.
- THE CONTRACTOR SHALL PIG-TAIL 2 #10 & 1 #10 GND. WITHIN LIGHT FIXTURE POLE BASE AND SPLICE CONDUCTORS TO 2 #8 AND 1 #8 GND.

1 ELECTRICAL LIGHTING PLAN - PARKING LOT
SCALE 1/8" = 1'-0"



ADDENDUM 3 ADDENDUM 4	01-24-2025 02-07-2025	CONSULTANT	ARCHITECT/ENGINEER OF RECORD Architecture Engineering Design-Build 9000 Wesley Place, Louisville, KY 40222 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title ELECTRICAL LIGHTING PLAN PARKING LOT	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900 Building Number 12
Revisions:	Date:					Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls; 2501 W 22nd St, Sioux Falls, SD 57105	Drawing Number EL103
								Issue Date 06/25/2024	Checked WLM Drawn KMB



- ### ELECTRICAL POWER GENERAL NOTES
- REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS RELATED TO THIS SHEET.
 - REFER TO ELECTRICAL DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
 - ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER RESISTANT.
 - ALL RECEPTACLES SHALL BE INSTALLED AT 18" A.F.F. UNLESS NOTED OTHERWISE.
 - ALL CONDUITS TO BE CONCEALED WITHIN ALL WALLS UNLESS NOTED OTHERWISE.
 - ALL CONDUIT USED SHALL BE 3/4" MINIMUM.
 - SOME WORK UNDER THIS CONTRACT WILL REQUIRE WORK DUTIES TO BE PERFORMED AFTER NORMAL WORKING HOURS. DETERMINATION OF SPECIFIC WORK DUTIES TO BE PERFORMED AFTER HOURS SHALL BE MADE BY VA STAFF AT THEIR CONVENIENCE. POSSIBLE WORK REQUIRING AFTER HOURS APPROVAL INCLUDES, BUT IS NOT LIMITED TO: POWER OUTAGES, DISRUPTION OF SERVICES, EXTREME NOISE AND / OR VIBRATION, CUTTING AND PATCHING OF CONCRETE AND DELIVERIES OF EQUIPMENT.
- ### ELECTRICAL POWER KEY NOTES
- THE CONTRACTOR SHALL PROVIDE UNI-STRUT MOUNTING SYSTEM AS REQUIRED TO MOUNT QUAD RECEPTACLE TO.
 - ROUTE 3/4" RIGID STEEL CONDUIT WITHIN CONCRETE FLOOR SLAB.
 - ROUTE 3/4" RIGID STEEL CONDUIT WITHIN CONCRETE FLOOR SLAB AND OVER TO WALL. ROUTE CONDUIT UP WALL AND OVER TO PANEL AS INDICATED.
 - PROVIDE 30 AMP, 208 VOLT, 3-POLE, NEMA 1 DISCONNECT SWITCH FOR UPS SYSTEM.
 - PROVIDE PDU (POWER DISTRIBUTION UNIT) MOUNTED AT CEILING, CONNECT TO 20/3 CIRCUIT BREAKER WITHIN PANELBOARD.
 - CONNECT TO LOCKED HANDLE CIRCUIT BREAKER WITHIN PANEL, REFER TO DRAWING EP603 FOR PANELBOARD INFORMATION.
 - THE CONTRACTOR SHALL PROVIDE JUNCTION BOX WITH 120 VOLT CIRCUIT, COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL PROVIDE EPO (EMERGENCY POWER OFF) SWITCH TO SHUT OFF MAIN NATURAL GAS VALVE. REFER TO DETAIL 6/E-501 FOR ADDITIONAL INFORMATION.
 - APPROXIMATE LOCATION OF MAIN NATURAL GAS VALVE, FIELD COORDINATE EXACT LOCATION.
 - ROUTE CIRCUITING TO PANEL AS INDICATED, CONNECT TO 20/1 SHUNT TRIP CIRCUIT BREAKER WITHIN PANEL.
 - PROVIDE EPO (EMERGENCY POWER OFF) PUSH BUTTONS TO SHUT OFF POWER TO BOILER.
 - PROVIDE EPO (EMERGENCY POWER OFF) PUSH BUTTONS TO SHUT OFF POWER TO GENERATOR.
 - APPROXIMATE LOCATION OF BOILER PLANT STEAM VALVE.
 - THE CONTRACTOR SHALL PROVIDE JUNCTION BOX WITH 120 VOLT CIRCUIT FOR BUILDING SIGNAGE, COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
-
- 2 ELEVATION BREAK ROOM 101 - SOUTH WALL
SCALE 1/2" = 1'-0"
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- 3 ELEVATION BREAK ROOM 101 - WEST WALL
SCALE 1/2" = 1'-0"
-
- KEY PLAN - FIRST FLOOR
NOT TO SCALE

1 ELECTRICAL POWER PLAN - FIRST FLOOR
SCALE 3/16" = 1'-0"

ADDENDUM 1 ADDENDUM 2 ADDENDUM 3 ADDENDUM 4	08-09-2024 09-12-2024 01-24-2025 02-07-2025	CONSULTANT	ARCHITECT/ENGINEER OF RECORD Architecture Engineering Design-Build 9000 Weesex Place, Louisville, KY 40222 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title ELECTRICAL POWER PLAN FIRST FLOOR	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
Revisions:	Date:				Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12 12	Drawing Number EP101
							Issue Date 06/25/2024	Checked WLM	Drawn KMB

CURRENT RATINGS AMPS	AMPS	PHASE CONDUCTORS THHW-THWN (75 DEGREE)	SETS	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT SIZE
1	1,000	3#250MCM	4	1#3/0	3"
2	100	4#3	1	1#8	1 1/4"
3	50	3#8	1	1#10	3/4"
4	200	4#3/0	1	1#6	1 1/2"

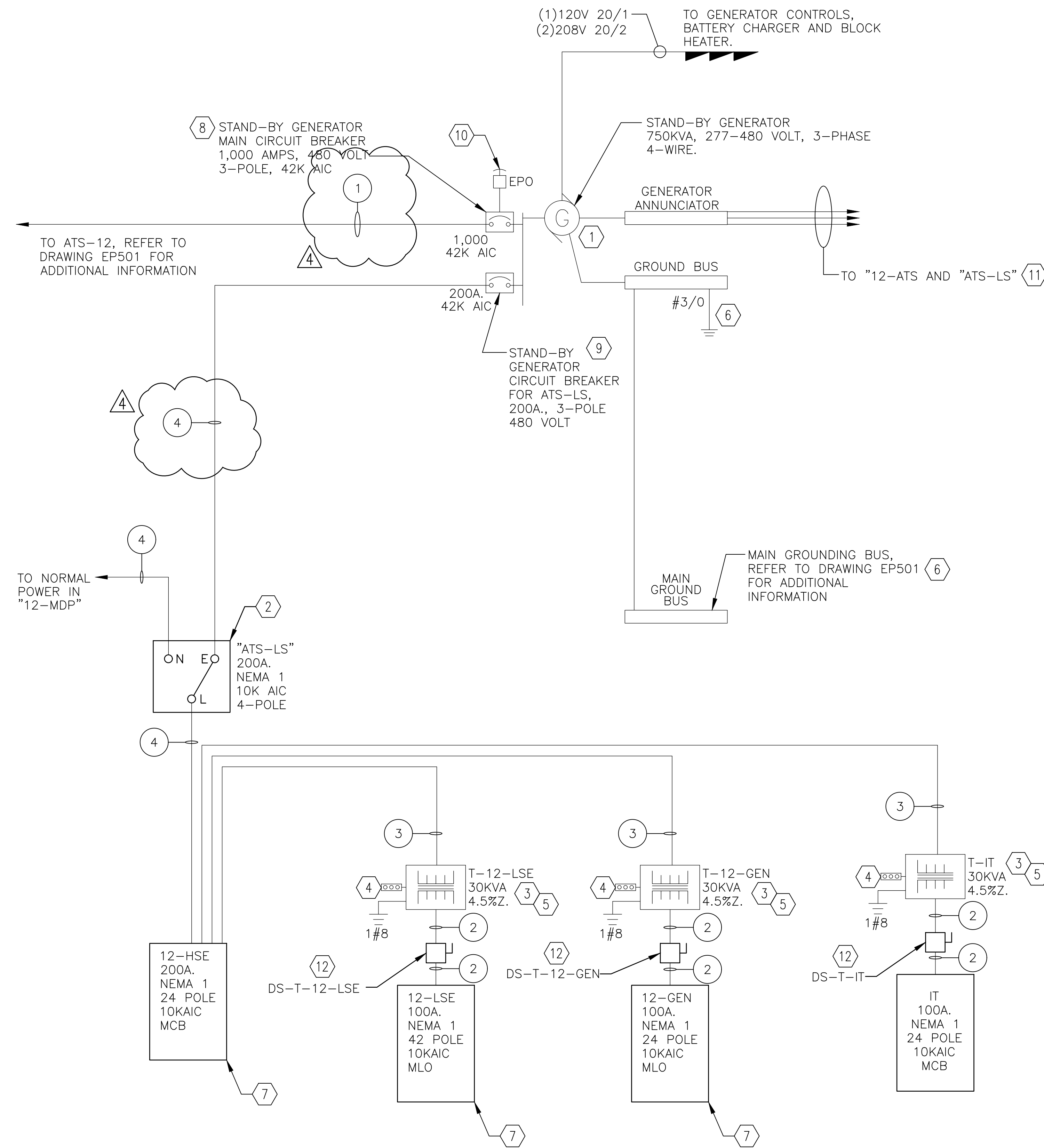
2 NORMAL POWER / STAND-BY POWER ONE-LINE DIAGRAM
SCALE NOT TO SCALE

ELECTRICAL ONE LINE DIAGRAM GENERAL NOTES

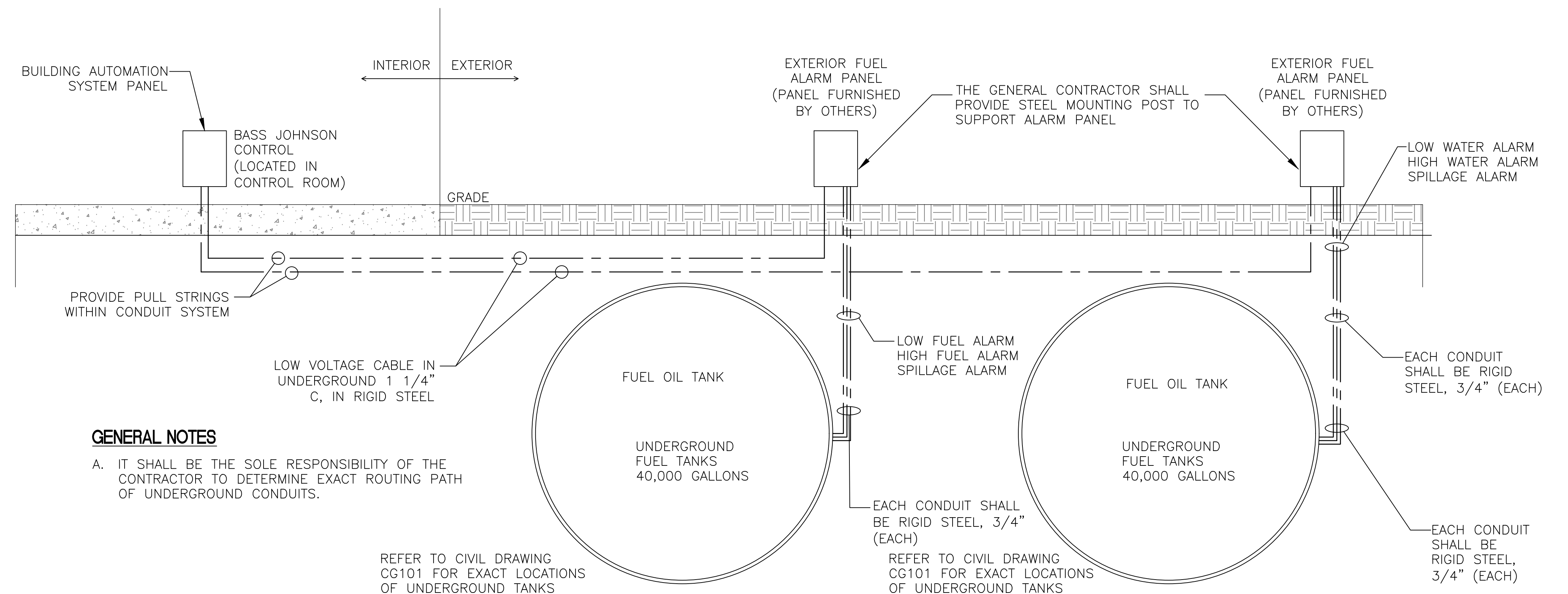
- REFER TO DWG. E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES RELATED TO THIS SHEET.
- REFER TO PLANS FOR PHYSICAL RESTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT ARE WITHIN THE RESTRAINTS OF EACH SPECIFIC EQUIPMENT LOCATION.
- ALL BUSSING SHALL BE COPPER, ALUMINUM SHALL NOT BE PERMITTED.
- ALL CONDUCTORS SHALL BE 75C RATED. 60C CONDUCTORS SHALL NOT BE PERMITTED.
- ALL ELECTRICAL PANELS AND DISTRIBUTION PANEL BOARDS SHALL BE FULLY RATED, SERIES RATED SYSTEMS SHALL NOT BE PERMITTED.
- THE STAND-BY GENERATOR AND THE AUTOMATIC TRANSFER SWITCHES SHALL BE COMPATIBLE AND SHALL COMMUNICATE BETWEEN THE TWO PIECES OF EQUIPMENT.
- THE CONTRACTOR SHALL NOTIFY VAMC IN WRITING MINIMUM OF (21) DAYS NOTICE ON SHUTDOWN OF BUILDING.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO THE GREATEST EXTENT POSSIBLE TO MINIMIZE AND MITIGATE SHUTDOWN DOWNTIME AND DISRUPTION TO THE VAMC.
- REFER TO DETAILS 6/EP504, 7/EP504 AND 8/EP504 FOR ATS, TRANSFORMER AND SPD SCHEDULES.

ELECTRICAL ONE LINE DIAGRAM NOTES

- BASIS OF DEIGN CATAPILLAR DIESEL GENERATOR, REFER TO SPECIFICATION 263213 FOR ADDITIONAL INFORMATION. STAND-BY GENERATOR SHALL BE 750KVA, 480-277 VOLT, 3-PHASE, 4-WIRE.
- "ATS-LS" SHALL BE 200 AMP RATED, 480-277 VOLT, 3-PHASE, 4-WIRE, 10KAIC.
- PROVIDE 30KVA, DRY-TYPE, TRANSFORMER, 480 VOLT PRIMARY, 120-208 VOLT SECONDARY, 3-PHASE, 4-WIRE, TRAPEZE MOUNTED.
- CONNECT TO TRANSFORMER BUS-BAR, REFER TO DETAIL 5/E-501 FOR ADDITIONAL INFORMATION.
- TRANSFORMER SHALL BE PAD MOUNTED ON FLOOR.
- CONNECT TO BUILDING GROUNDING SYSTEM, REFER TO DETAIL 2/E-501 FOR ADDITIONAL INFORMATION.
- PROVIDE NEW ELECTRICAL PANEL AS INDICATED, REFER TO EP600 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE 1,000 AMP, 480 VOLT, 3-PHASE, 42K AIC, CIRCUIT BREAKER AS INDICATED.
- PROVIDE 200 AMP, 480 VOLT, 3-PHASE, 42K AIC, CIRCUIT BREAKER.
- PROVIDE EPO (EMERGENCY POWER OFF) BUTTON, REFER TO DETAIL 7/E-501 FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL ROUTE 3/4-INCH EMPTY CONDUIT FROM GENERATOR ANNUNCIATOR TO "ATS-12" AND "ATS-LS", PROVIDE PULL STRINGS WITHIN THE EMPTY CONDUIT SYSTEM, THE GENERATOR MANUFACTURER SHALL PULL LOW VOLTAGE CABLING AND MAKE FINAL CONNECTIONS.
- PROVIDE 100 AMP DISCONNECT SWITCH FUSED WITH 4-100 AMP FUSES, NEMA 1 ENCLOSURE.



1 NORMAL POWER / STAND-BY POWER ONE-LINE DIAGRAM
SCALE NOT TO SCALE



3 FUEL ALARM SENSOR DETAIL
SCALE NOT TO SCALE

ADDENDUM	DATE
ADDENDUM 1	08-09-2024
ADDENDUM 2	09-12-2024
ADDENDUM 3	01-24-2025
ADDENDUM 4	02-07-2025

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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STAMP

TYLER M. MONTGOMERY
LICENSE NO. 204712
2/10/2025

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
NORMAL POWER ONE-LINE DIAGRAM

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
SIOUX FALLS BOILER PLANT

Location
VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date
06/25/2024

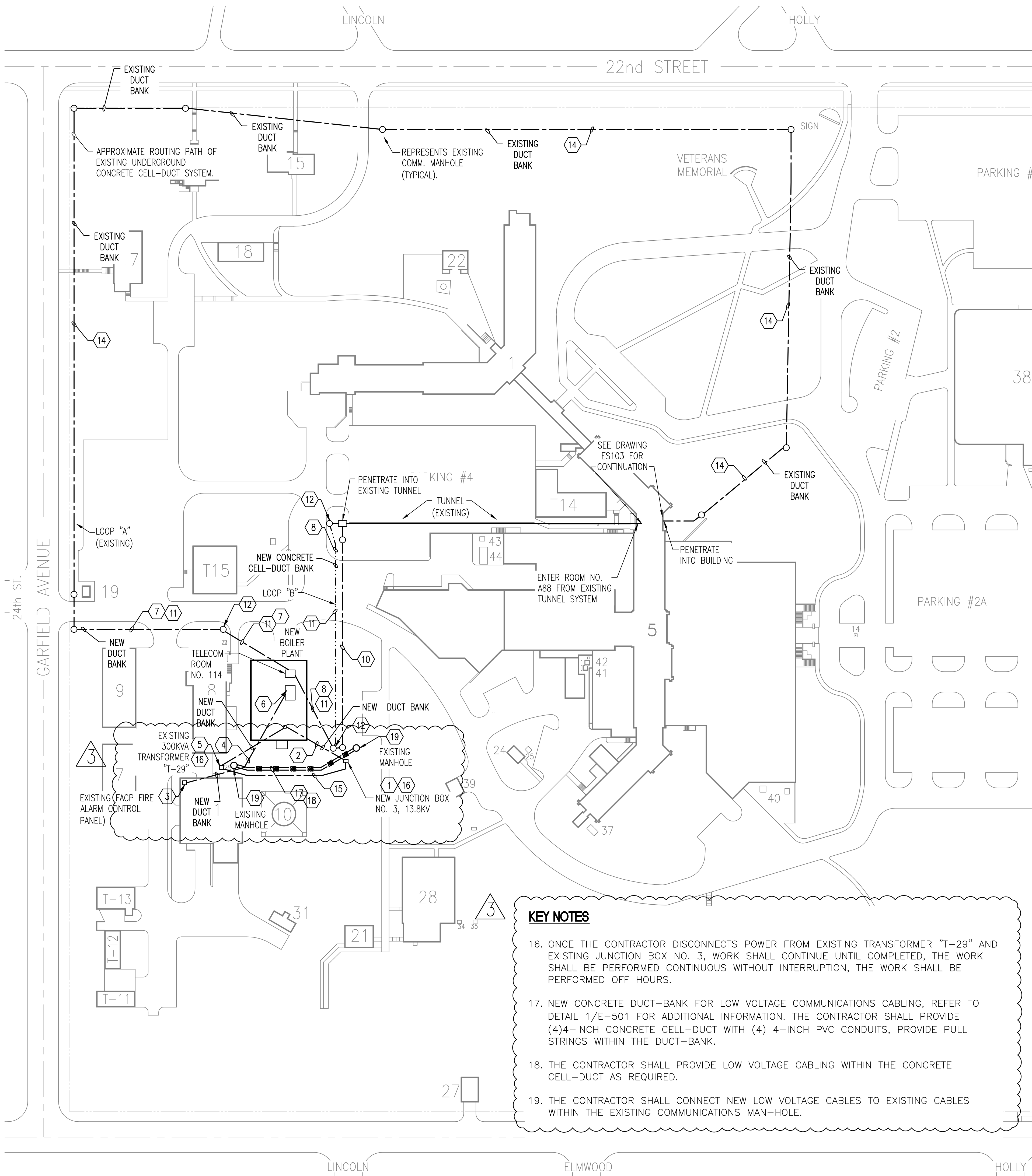
Checked
WLM

Drawn
KMB

Project Number
438-22-900

Building Number
12

Drawing Number
EP503



KEY NOTES

- 13. EXISTING MAN-HOLE, CONNECT NEW CONCRETE CELL-DUCT TO EXISTING MAN-HOLE.
- 14. EXISTING CONCRETE CELL-DUCT SYSTEM, APPROXIMATE ROUTING PATH FOR LOW VOLTAGE TELE-COMMUNICATIONS LOOP "A", THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WITHIN THE NEW CONCRETE CELL-DUCT SYSTEM: (1) 24 STRAND OM4 FIBER CABLE, (1) 24 STRAND OS2 FIBER CABLE, (1) 25 PAIR COPPER BACKBONE CABLE, (1) RG-11 COAXIAL CABLE FOR THE PERIMETER BUILDINGS, PROVIDE A TOTAL OF (8) 24 STRAND OM4 CABLE, (8) 24 STRAND OS2 FIBER, (8) 25 PAIR COPPER BACKBONE CABLES, (8) RG-11 COAXIAL CABLES IN (4) 4" CONDUITS IN CONCRETE CELL-DUCT DUCT-BANK. ROUTED FROM INDICATED TO PERIMETER DUCT-BANK, REFER TO DETAIL 3/EP501 FOR ADDITIONAL INFORMATION.

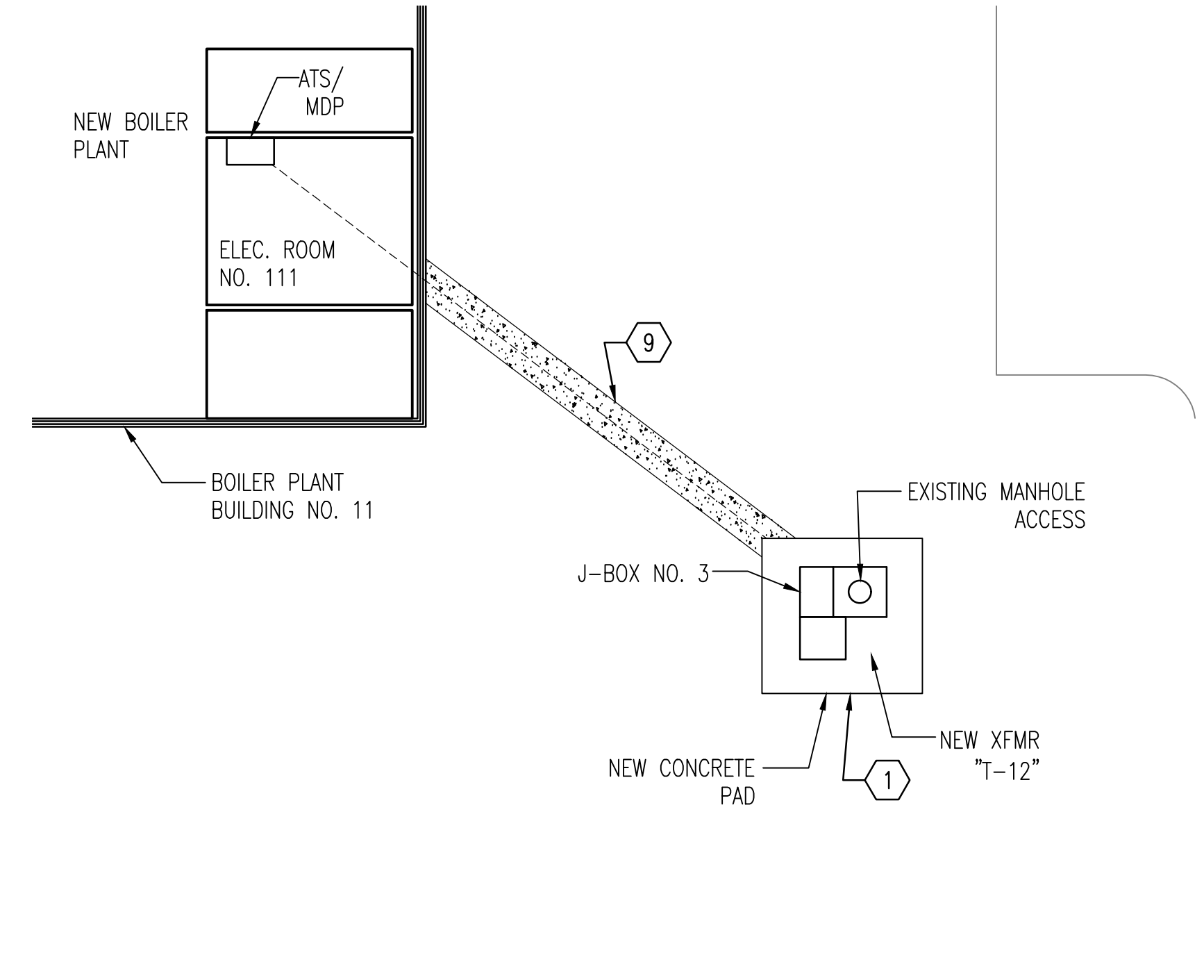
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- B. ALL EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION UNLESS NOTED OTHERWISE.
- C. ALL EXISTING DISTURBED UNDERGROUND, ASPHALT, SIDEWALKS, CURBS AND GUTTERS ETC. SHALL BE REPAIRED TO MATCH EXISTING. CONTRACTOR SHALL RE-GRADE, RE-FEED/BRING ALL AREAS TO PRESENT "LIKE NEW" CONDITION UPON COMPLETION OF PROJECT.
- D. ALL UNDERGROUND CONDUIT SYSTEMS SHALL BE ROUTED WITHIN CONCRETE CELL-DUCT SYSTEM PER DETAIL 1/E-501.
- E. PRIOR TO BEGINNING EXTERIOR DIGGING/TRENCHING THE CONTRACTOR SHALL PERFORM GPR (GROUND PENETRATING RADAR) OF THE PROPOSED AREA PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL AVOID ANY EXISTING UTILITIES OR OBSTRUCTIONS WHEN INSTALLING UNDERGROUND INSTALLATION.
- F. SEE DRAWING E-903 FOR EXISTING NORTH AND SOUTH TUNNEL SYSTEM.



KEY NOTES

- 1. THE CONTRACTOR SHALL PROVIDE NEW JUNCTION BOX AT SAME LOCATION AS EXISTING. NEW JUNCTION BOX SHALL HAVE 5-TERMINAL CONNECTION POINTS, 13,800 VOLT, 3-PHASE, 200 AMP RATED, REFER TO DETAIL 3, 4, AND 5/EP504 FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE NEW CONCRETE PAD AS REQUIRED FOR INSTALLATION OF MEDIUM VOLTAGE JUNCTION BOX. BASIS OF DESIGN: COOPER POWER SERIES, SECTOR CABINET MODEL NO. SY139832222XMO6.
- 2. THE CONTRACTOR SHALL ROUTE (2) NEW 15KV CABLING UNDERGROUND FROM NEW JUNCTION BOX NO. 3 TO MEDIUM VOLTAGE TRANSFORMER "T-12", THE TWO 13,800 VOLT LOOPS SHALL BE CONSIDERED LOOP "A" AND LOOP "B". THE UNDERGROUND LOOPS SHALL BE ROUTED IN CONCRETE CELL-DUCT, REFER TO DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.



2 ENLARGED PLAN XFMR AND JUNCTION BOX NO. 3
SCALE 1/16" = 1'-0"

KEY NOTES

- 15. THE CONTRACTOR SHALL ROUTE (2) SETS OF 3#1/0 15KV FEEDER CONDUCTORS WITHIN (2) 4-INCH PVC CONDUITS FROM J-BOX NO. 3 TO TRANSFORMER T-29, ROUTE NEW CONDUIT AND FEEDER CONDUCTORS WITHIN CONCRETE CELL DUCT SYSTEM, REFER TO DETAIL 1/E-501 AND DRAWING CU101 FOR ADDITIONAL INFORMATION.

OUTAGE PLAN NOTES:

- A. THE REMOVAL AND REPLACEMENT OF EXISTING JUNCTION BOX NO. 3 SHALL BE PERFORMED ON OFF HOURS OF THE VAMC (SATURDAY OR SUNDAY).
- B. THE CONTRACTOR PERFORM DISCONNECTING, REMOVING AND REPLACING OF JUNCTION BOX NO. 3 IN ONE DAY, ONCE WORK HAS STARTED IT SHALL BE CONTINUOUS UNTIL NEW 13,800 VOLTS JUNCTION BOX IS INSTALLED AND FULLY OPERATIONAL.
- C. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ALIGN VARIOUS TRADES IN ORDER TO COMPLETE WORK IN ONE DAY.
- D. IT SHALL NOT BE PERMISSIBLE TO PERFORM PARTIAL WORK OVER A SATURDAY AND SUNDAY, ALL WORK SHALL BE COMPLETED IN ONE DAY.

KEY NOTES

- 16. ONCE THE CONTRACTOR DISCONNECTS POWER FROM EXISTING TRANSFORMER "T-29" AND EXISTING JUNCTION BOX NO. 3, WORK SHALL CONTINUE UNTIL COMPLETED, THE WORK SHALL BE PERFORMED CONTINUOUS WITHOUT INTERRUPTION, THE WORK SHALL BE PERFORMED OFF HOURS.
- 17. NEW CONCRETE DUCT-BANK FOR LOW VOLTAGE COMMUNICATIONS CABLING, REFER TO DETAIL 1/E-501 FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE (4) 4-INCH CONCRETE CELL-DUCT WITH (4) 4-INCH PVC CONDUITS, PROVIDE PULL STRINGS WITHIN THE DUCT-BANK.
- 18. THE CONTRACTOR SHALL PROVIDE LOW VOLTAGE CABLING WITHIN THE CONCRETE CELL-DUCT AS REQUIRED.
- 19. THE CONTRACTOR SHALL CONNECT NEW LOW VOLTAGE CABLES TO EXISTING CABLES WITHIN THE EXISTING COMMUNICATIONS MAN-HOLE.

1 ELECTRICAL - SITE PLAN
SCALE 1/64" = 1'-0"

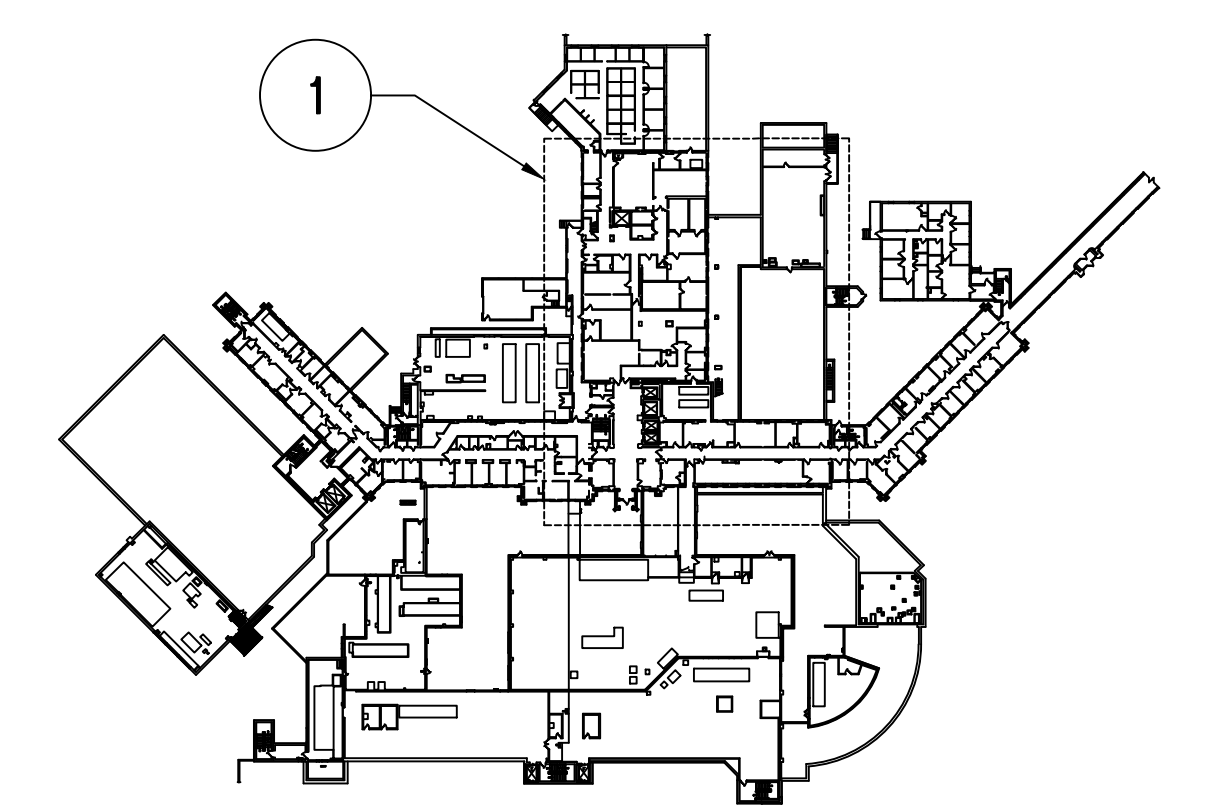
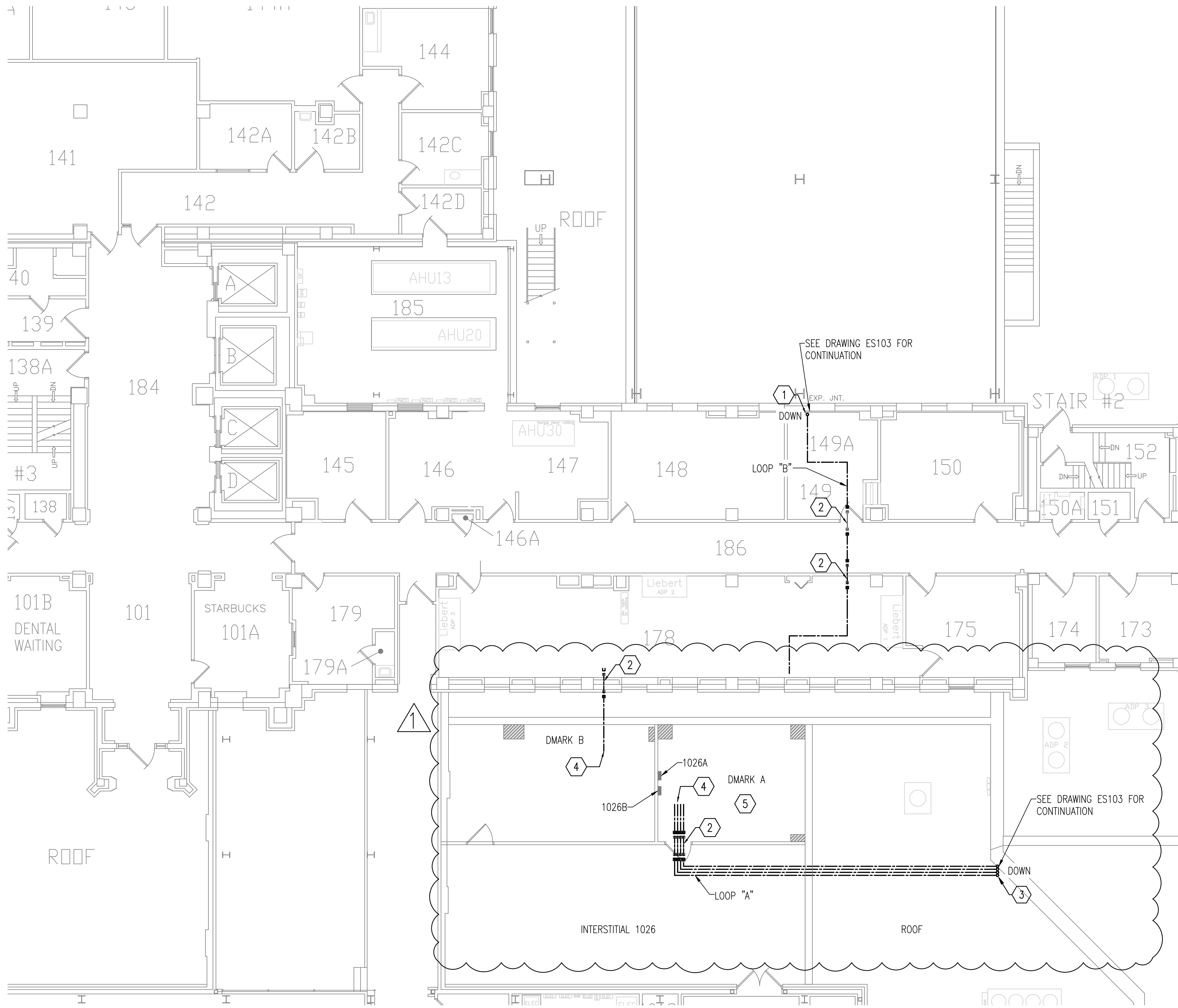
ADDENDUM 1 ADDENDUM 3 ADDENDUM 4 Revisions: _____ Date: _____	08-09-2024 01-24-2025 02-07-2025	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title ELECTRICAL - SITE PLAN	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Issue Date 06/25/2024	Checked WLM	Drawn KMB	Building Number 12	Drawing Number ES101		

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- C. ALL EXISTING DISTURBED GROUND, ASPHALT, SIDEWALKS, CURBS AND GUTTERS ETC. SHALL BE REPAIRED TO MATCH EXISTING. CONTRACTOR SHALL RE-GRADE, RE-FEED/BRING ALL AREAS TO PRESENT "LIKE NEW" CONDITION UPON COMPLETION OF PROJECT.
- D. ALL UNDERGROUND CONDUIT SYSTEMS SHALL BE ROUTED WITHIN CONCRETE CELL-DUCT SYSTEM PER DETAIL 3/EP501.
- E. PRIOR TO BEGINNING EXTERIOR DIGGING/TRENCHING THE CONTRACTOR SHALL PERFORM GPR (GROUND PENETRATING RADAR) OF THE PROPOSED AREA PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL AVOID ANY EXISTING UTILITIES OR OBSTRUCTIONS WHEN INSTALLING UNDERGROUND INSTALLATION.
- F. CONTRACTOR SHALL SEAL ANY OPENINGS MADE DURING CONSTRUCTION.

KEY NOTES

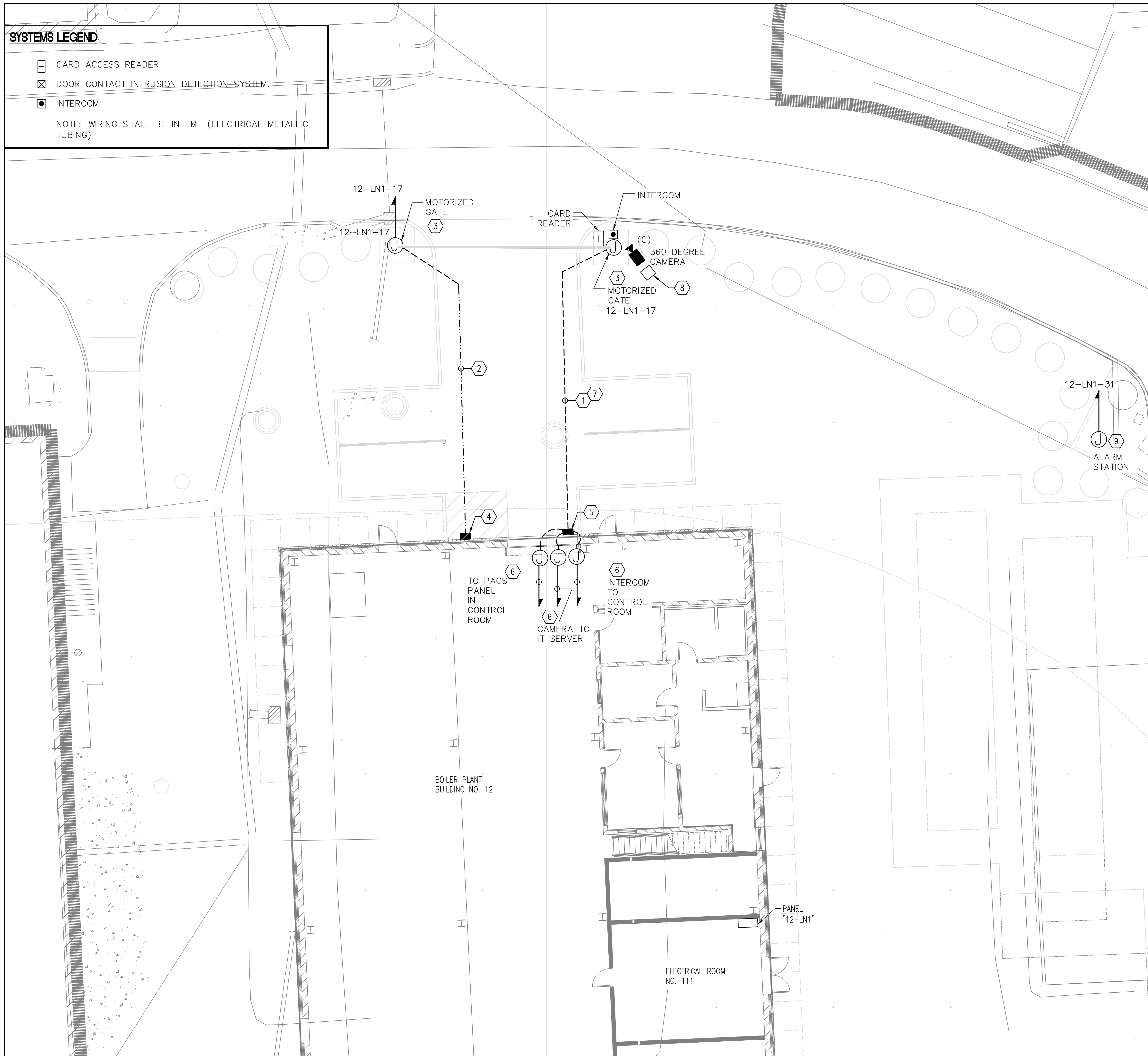
- 1. APPROXIMATE ROUTING PATH FOR LOW VOLTAGE TELE-COMMUNICATIONS LOOP "B", THE CONTRACTOR SHALL PROVIDE A 4-INCH CONDUIT WITHIN THE ACCESSIBLE CEILING SPACE AND ROUTE OVER TO IT ROOM 178.
- 2. THE CONTRACTOR SHALL PROVIDE A 4-INCH UL FIRE RATED CONDUIT MOUNTED ABOVE THE ACCESSIBLE CEILING SPACE, PROVIDE PULL STRINGS WITHIN THE CONDUIT SYSTEM, REFER TO DETAIL 3/ET501 FOR ADDITIONAL INFORMATION.
- 3. APPROXIMATE ROUTING PATH FOR LOW VOLTAGE TELE-COMMUNICATIONS LOOP "A", THE CONTRACTOR SHALL PROVIDE A 4-INCH CONDUIT WITHIN THE ACCESSIBLE CEILING SPACE AND ROUTE OVER TO IT ROOM 178.
- 4. THE CONTRACTOR SHALL LEAVE 50' SLACK AT SERVER ROOM LANDING POINT FOR FUTURE EQUIPMENT EXPANSION.
- 5. THE CONTRACTOR SHALL ROUTE CATEGORY 3, 25-PAIR CABLES TO THE NORTH-EAST CORNER 1026A, TERMINATE AT 110 BLOCKS, THEN TURN ALL CATEGORY 3 CABLE FROM THE 110 BLOCKS TO THE EXISTING CONDUIT CHASE NEAR THE S/W COLUMN IN THE SPARE ROOM (1026A) UP TO THE MAIN SERVER ROOM NO. 201. THEN ALL THE CABLES WILL NEED TO TERMINATE IN THE TERMINATION BLOCKS IN THE NE CORNER OF THE SERVER ROOM PLUS EACH CABLE REQUIRES 50'-0" OF SLACK.



1 BUILDING 5 FIRST FLOOR - LOOP 'A' AND 'B'
SCALE 1/8" = 1'-0"

KEY PLAN - FIRST FLOOR
NOT TO SCALE

ADDENDUM 4 02-07-2025 CONSULTANT Revisions: _____ Date: _____	ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 9000 Weissex Place, Louisville, KY 40222 www.paradigmusa.com	STAMP TYLER M. MONTGOMERY LICENSE NO. 0007142 2/12/2025	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title BUILDING 5 FIRST FLOOR - LOOP 'A' AND 'B'	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
				Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12



1 ELECTRICAL - SECURITY GATE PLAN
SCALE 1/8" = 1'-0"

SITE PLAN GENERAL NOTES

- A. THIS DRAWING IS BASED ON SITE PLANS PROVIDED BY OTHERS, AND MAY NOT SHOW EXACT LOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC. CONTRACTOR SHALL FIELD INVESTIGATE AND CONFIRM/VERIFY EXISTING CONDITIONS. THIS DRAWING PROVIDED FOR ORIENTATION AND INFORMATIONAL PURPOSES - DO NOT SCALE.
- B. THE ROUTING PATH OF UNDERGROUND CONDUITS AND CONCRETE CELL-DUCT SYSTEMS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT ROUTING PATHS WITH OTHER TRADES.
- C. THE CONTRACTOR SHALL PERFORM GPR (GROUND PENETRATING RADAR) AT SITE PRIOR TO DIGGING.
- D. ALL CAMERAS SHALL BE 360 DEGREE OF COVERAGE.
- E. THE CONTRACTOR SHALL INCLUDE PULL STRINGS WITHIN CONDUIT SYSTEM.
- F. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE INTERCOM SYSTEM AND ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.

SECURITY GATE PLAN KEY NOTES

- 1. PROVIDE 1 1/4" RIGID STEEL CONDUIT BURIED UNDERGROUND WITH PULL STRINGS.
- 2. PROVIDE 3/4" RIGID STEEL CONDUIT BURIED UNDERGROUND WITH PULL STRINGS.
- 3. PROVIDE 120 VOLT POWER TO MOTORIZED GATE, ROUTE 3/4" RIGID STEEL CONDUIT UNDERGROUND TO PANEL AS INDICATED.
- 4. THE CONTRACTOR SHALL ROUTE 3/4" RIGID STEEL CONDUIT UNDERGROUND FROM SECURITY GATE TO PANEL AS INDICATED.
- 5. PROVIDE 1 1/4" RIGID STEEL "LB" MOUNTED ON SIDE OF BUILDING.
- 6. MOUNT ALONG CEILING TO DESIGNATED LOCATION AS INDICATED.
- 7. THE CONTRACTOR SHALL ROUTE CATEGORY 6a CABLING FOR CAMERA WITHIN CONDUIT SYSTEM.
- 8. THE CONTRACTOR SHALL PROVIDE MOUNTING POLE FOR CAMERA, THE MOUNTING HEIGHT OF CAMERA SHALL BE FIELD COORDINATED.
- 9. ROUTE 3/4" CONDUIT WITH 2#12 AND 1#12 GND. IN RIGID STEEL UNDERGROUND TO PANEL AS INDICATED.

SYMBOL	MANUFACTURER AND MODEL NUMBER	COVERAGE
(A)	CAMERA MANUFACTURED BY AXIS, MODEL NO. Q6100-E AND Q6135-LE.	360°
(B)	CAMERA MANUFACTURED BY AXIS, MODEL NO. P-3737-PL	360°
(C)	CAMERA MANUFACTURED BY AXIS, MODEL NO. P3265-LVE.	360°
(D)	CAMERA MANUFACTURED BY AXIS, MODEL NO. P-3265-LV.	360°

2 CAMERA LEGEND
NOT TO SCALE

ADDENDUM 1	08-09-2024
ADDENDUM 3	01-24-2025
ADDENDUM 4	02-07-2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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STAMP

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - SECURITY GATE PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
SIOUX FALLS BOILER PLANT

Location
VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date
06/25/2024

Checked
WLM

Drawn
KMB

Project Number
438-22-900

Building Number
12

Drawing Number
ES106