

KEY NOTES

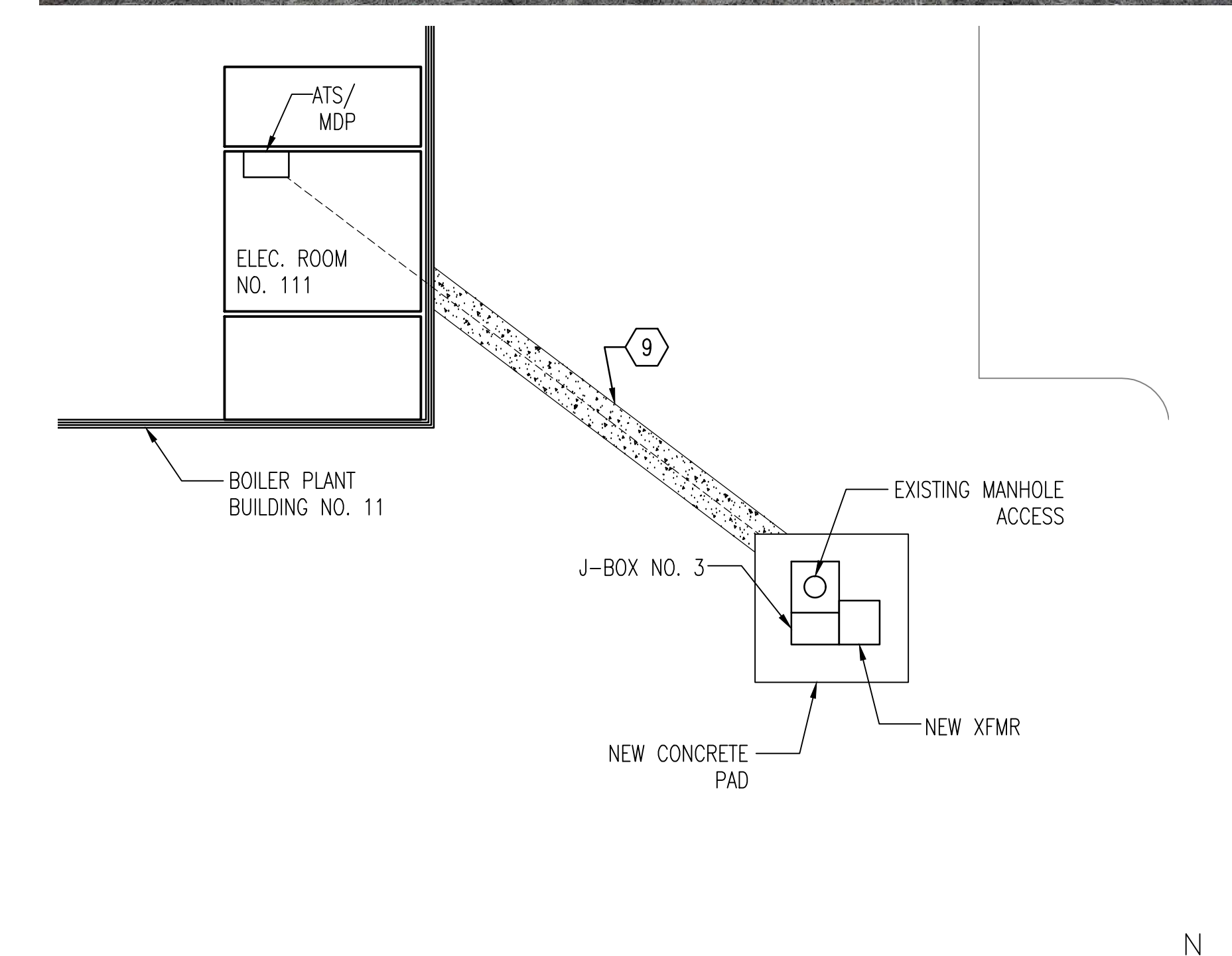
14. EXISTING CONCRETE CELL-DUCT SYSTEM, APPROXIMATE ROUTING PATH FOR LOW VOLTAGE TELE-COMMUNICATIONS LOOP "A", THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WITHIN THE NEW CONCRETE CELL-DUCT SYSTEM: (1) 24 STRAND OM4 FIBER CABLE, (1) 24 STRAND OS2 FIBER CABLE, (1) 25 PAIR COPPER BACKBONE CABLE, (1) RG-11 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.

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 UNDERGROUND, ASPHALT, SIDEWALKS, CURBS AND GUTTERS ETC. SHALL BE REPAIRED TO BRING 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

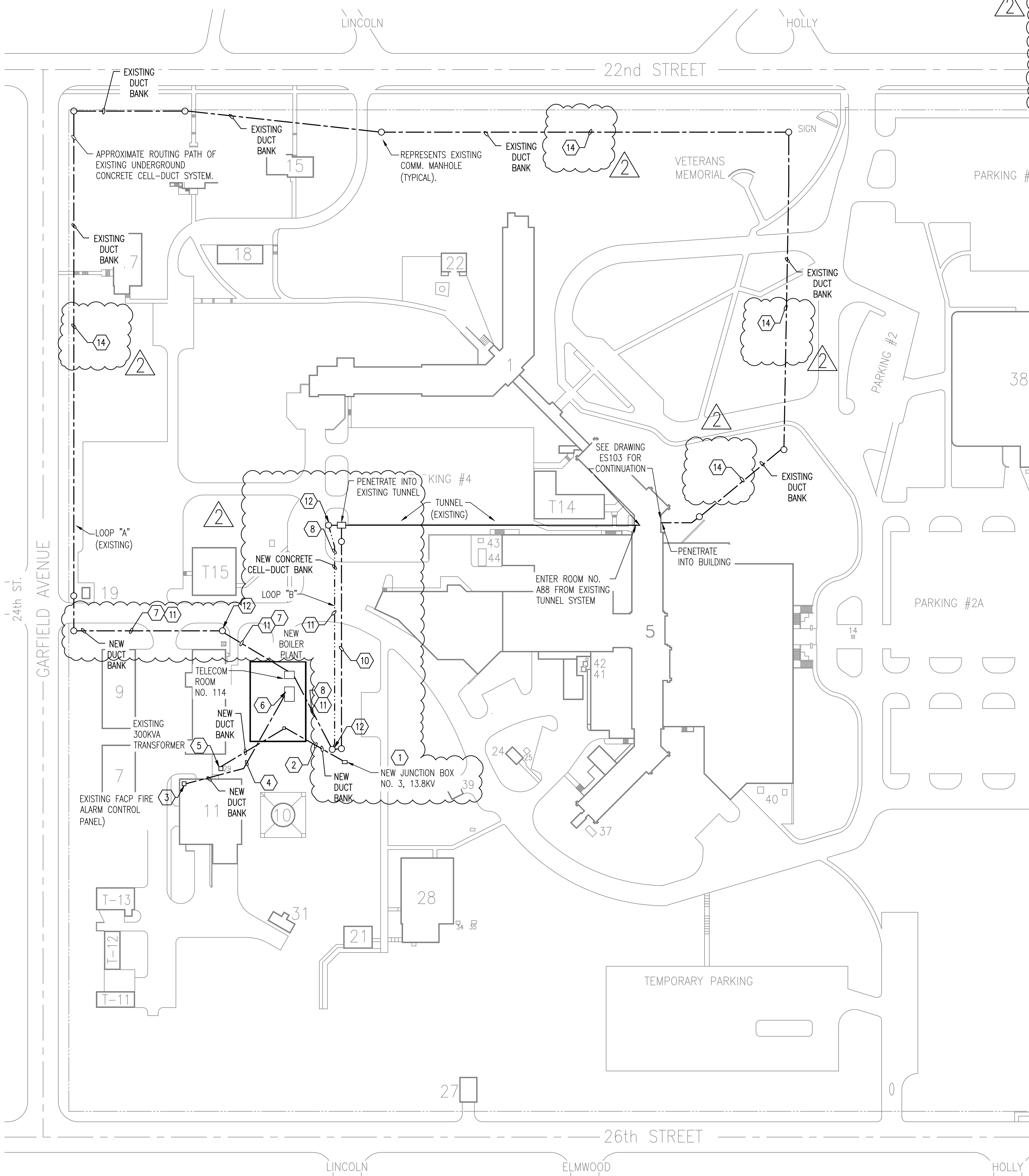
- 1. THE CONTRACTOR SHALL PROVIDE NEW JUNCTION BOX AT SAME LOCATION AS EXISTING, NEW JUNCTION BOX SHALL HAVE 5-TERMINAL CONNECTION POINTS, 13,800 VOLT, 3-PHASE, 200 AMP RATED, REFER TO DETAIL 3, 4, AND 5/EP504 FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE NEW CONCRETE PAD AS REQUIRED FOR INSTALLATION OF MEDIUM VOLTAGE JUNCTION BOX.
- 2. THE CONTRACTOR SHALL ROUTE (2) NEW 15KV CABLING UNDERGROUND FROM NEW JUNCTION BOX NO. 4 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.
- 3. APPROXIMATE LOCATION OF EXISTING FIRE ALARM CONTROL PANEL LOCATED WITHIN THE EXISTING BOILER PLANT, THE CONTRACTOR SHALL MAKE CONNECTION TO EXISTING FACP AND ROUTE NEW FIRE ALARM CABLING FROM EXISTING FACP TO NEW FACP LOCATED WITHIN THE NEW BOILER PLANT. THE FIRE ALARM CABLING SHALL BE INSTALLED WITHIN CONCRETE CELL-DUCT SYSTEM, REFER TO DETAIL 1/E-501 FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL INCLUDE IN BID NUMBER ALL ASSOCIATED COST OF PROGRAMMING THE EXISTING FACP TO ACCOMMODATE NEW FIRE ALARM PANEL LOCATED IN THE NEW BOILER PLANT. REFER TO DRAWING ES102 FOR EXACT LOCATION OF EXISTING FACP WITHIN EXISTING BOILER PLANT.
- 4. ROUTE NEW FIRE ALARM CABLING WITHIN CONCRETE CELL-DUCT SYSTEM, PROVIDE PULL STRINGS WITHIN THE CELL-DUCT SYSTEM, REFER TO DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.
- 5. APPROXIMATE LOCATION OF EXISTING 300KVA TRANSFORMER FEEDING THE EXISTING BOILER PLANT, SHOWN FOR REFERENCE ONLY.
- 6. NEW FACP (FIRE ALARM CONTROL PANEL) LOCATED IN BREAK ROOM NO. 101 OF NEW BOILER PLANT, REFER TO DRAWING FA101 FOR EXACT LOCATION.
- 7. 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.
- 8. APPROXIMATE ROUTING PATH FOR LOW VOLTAGE TELE-COMMUNICATIONS LOOP "B", 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.
- 9. THE CONTRACTOR SHALL ROUTE CABLING FROM NEW TRANSFORMER TO ATS/MDP LOCATED IN ELECTRICAL ROOM NO. 111, ROUTE NEW CONDUIT AND FEEDER CONDUCTORS WITHIN CONCRETE CELL DUCT SYSTEM, REFER TO DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.
- 10. EXISTING DUCT-BANK IS EXISTING TO REMAIN AND FULL IN CAPACITY, SHOWN FOR REFERENCE ONLY.
- 11. PROVIDE NEW CONCRETE CELL-DUCT SYSTEM AS INDICATED.
- 12. THE CONTRACTOR SHALL PROVIDE NEW CONCRETE MAN-HOLE AS INDICATED, REFER TO DETAIL NO. 8/E-502 FOR ADDITIONAL INFORMATION.
- 13. EXISTING MAN-HOLE, CONNECT NEW CONCRETE CELL-DUCT TO EXISTING MAN-HOLE.



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

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.



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

ADDENDUM 1 ADDENDUM 3 Revisions: _____ Date: _____	08-09-2024 01-24-2025	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
	9000 Weissex Place, Louisville, KY 40222 www.paradigmusa.com	VA FORM 08-6231	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12	Issue Date 06/25/2024	Checked WLM	Drawn KMB	Drawing Number ES101