












GENERAL

-  DEMOLITION NOTE IDENTIFICATION
-  CONSTRUCTION NOTE IDENTIFICATION
-  HALFTONE SOLID INDICATES EXISTING ITEM AND/OR NO WORK ON SHEET
-  DARK AND DASHED INDICATES ITEM TO BE REMOVED (SEE LEGEND NOTE 4)
-  DARK AND SOLID INDICATES NEW ITEM
-  POINT OF DEMOLITION
-  POINT OF CONNECTION, NEW-TO-EXISTING (SEE LEGEND NOTE 3)
-  BREAK ROOM
-  ROOM NAME/NUMBER

ABBREVIATIONS

A	AMPERE	V	VOLTAGE OR VOLTS
AF	AMPERE FRAME	VAC	VOLTS ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR	VDC	VOLTS DIRECT CURRENT
AFG	ABOVE FINISHED GRADE	W	WIRE
AT	AMPERE TRIP	WP	WEATHERPROOF
AWG	AMERICAN WIRE GAUGE	X	IN SCHEDULES, ITEM NOT APPLICABLE
BG	BELOW GRADE	XFMR	TRANSFORMER
BLDG	BUILDING	Ø	PHASE
BRKR	BREAKER		
C	CONDUIT		
CB	CIRCUIT BREAKER		
CKT	CIRCUIT		
DISC SW	DISCONNECT SWITCH		
DT	DRY TYPE		
DWG	DRAWING		
EA	EACH		
EC	EMPTY CONDUIT		
ELEC	ELECTRICAL		
EQUIP	EQUIPMENT		
EXIST	EXISTING		
FLA	FULL LOAD AMPS		
FMC	FLEXIBLE METAL CONDUIT		
FT	FEET		
GFI	GROUND FAULT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION OF PERSONNEL (CLASS A DEVICE)		
GND	GROUND		
GRS	GALVANIZED RIGID METAL CONDUIT		
HP	HORSEPOWER		
IMC	INTERMEDIATE METAL CONDUIT		
KAIC	THOUSAND AMP CAPACITY, RMS SYMMETRICAL		
KCMIL	THOUSAND CIRCULAR MILS		
KVA	KILOVOLT AMPERE		
KWH	KILOWATT HOUR		
LFCM	LIQUIDTIGHT FLEXIBLE METAL CONDUIT		
MCA	MINIMUM CIRCUIT AMPACITY		
MCB	MAIN CIRCUIT BREAKER		
MIN	MINIMUM		
MLO	MAIN LUG ONLY		
MOCP	MAXIMUM OVERCURRENT PROTECTION		
MT	MOUNT		
MTD	MOUNTED		
MTG HT	MOUNTING HEIGHT		
N/C	NORMALLY CLOSED		
N/O	NORMALLY OPEN		
NEC	NATIONAL ELECTRICAL CODE		
NEU	NEUTRAL		
NF	NON FUSIBLE		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
PH	PHASE		
PNL	PANEL		
PVC	RIGID POLYVINYL CHLORIDE CONDUIT		
QTY	QUANTITY		
RCPT	RECEPTACLE		
RECEPT	RECEPTACLE		
REQD	REQUIRED		
RM	ROOM		
RMC	RIGID METAL CONDUIT		
S.E., SE	SERVICE ENTRANCE		
SIN	SOLID NEUTRAL		
SF	SUPPLY FAN		
SPD	SURGE PROTECTIVE DEVICE		
SW	SWITCH		
TYP	TYPICAL		
UG	UNDERGROUND		
UON	UNLESS OTHERWISE NOTED		

EQUIPMENT CONNECTIONS

-  AHU-1 EQUIPMENT MARK
-  CONTROL PANEL AS INDICATED (ATS, GENERATOR ANNUNCIATOR, ETC)








GENERAL NOTES

- A. WIRING IN CONDUIT, MINIMUM SIZE ONE-HALF (1/2) INCH WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC.
- B. WIRE AND CABLE MUST BE #12 AWG MINIMUM.
- C. OPENINGS CREATED IN A FIRE OR SMOKE RATED WALL OR FLOOR BY PROVISION OF ANY ELECTRICAL DEVICE OR CONDUIT MUST BE SEALED AFTER THE WORK IS COMPLETED WITH A UL APPROVED FIRE/SMOKE SEALANT TO RE-ESTABLISH THE PREVIOUS RATING OF THE WALL OR FLOOR. SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS, FLOORS AND THEIR RATING.
- D. 20A, 120V BRANCH CIRCUIT VOLTAGE DROP MINIMUM SIZES:
 - a. #10 AWG FROM 100' TO 150'
 - b. #8 AWG FROM 151' TO 250'

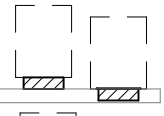

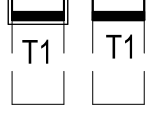

LEGEND NOTES

1. WIRE AND CONDUIT FOR MOTOR AND EQUIPMENT LOADS MUST BE CONTINUOUS IN SIZE AND COUNT FROM SOURCE TO FINAL CONNECTION. SIZE AND COUNT AS INDICATED ON THE CIRCUIT HOMERUN UNLESS OTHERWISE NOTED.
2. WHERE A NEW-TO-EXISTING CONNECTION IS INDICATED, PROVIDE MATERIALS AND LABOR REQUIRED TO MAKE THE CONNECTION.
3. AN (1) IN THE FUSE RATING OR TRIP RATING POSITION FOR THIS SYMBOL INDICATES TO PROVIDE FUSE OR BREAKER TRIP RATING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
4. WHERE EQUIPMENT OR DEVICES ARE NOTED AS 'REMOVE', REMOVE CONDUCTORS ASSOCIATED WITH THESE ITEMS TO THE LAST ACTIVE ITEM ON THE CIRCUIT, OR TO THE BRANCH CIRCUIT BREAKER IF ALL ITEMS ON THE CIRCUIT ARE REMOVED. REMOVE CONDUITS FOR THESE CIRCUITS WHERE THEY RUN EXPOSED OR IN CEILING OR FLOOR PLENUMS. CONDUITS RUN CONCEALED IN WALLS OR FLOOR SLABS MUST BE CUT OFF FLUSH WITH THE SURFACE AND ABANDONED. VOIDS IN WALLS OR FLOOR SLABS LEFT BY THE REMOVAL OF ELECTRICAL EQUIPMENT OR CONDUITS MUST BE FILLED WITH NON-SHRINK GROUT AND FINISHED TO MATCH ADJACENT SURFACES.

WIRE, CONDUIT AND RACEWAY

-  BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO LABEL INDICATES 2#12 CONDUCTORS & 1#12 GND IN 1/2" CONDUIT. CONDUIT LARGER THAN 1/2" CONDUIT, CONDUCTOR QUANTITY MORE THAN 3, OR WIRE SIZE LARGER THAN #12 SHALL BE AS INDICATED (SEE LEGEND NOTE 1).
-  L2A-1.3 HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED.
-  INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR OR ABOVE SUSPENDED CEILING UON.
-  CONDUIT TURNED UP
-  CONDUIT TURNED DOWN
-  CONDUIT SEAL
-  -UE- UNDERGROUND ELECTRICAL CIRCUIT.

DISTRIBUTION

-  PANELBOARD - 208Y/120V, UON. DASHED AREA INDICATES CLEARANCE ZONE.
-  PANELBOARD - 480Y/277V, UON. DASHED AREA INDICATES CLEARANCE ZONE.
-  DRY-TYPE TRANSFORMER. SOLID HATCH INDICATES FRONT. 'T1' INDICATES NAME. OUTLINE INDICATES MOUNTED ON CONCRETE PAD. REFER TO DRY-TYPE TRANSFORMER SCHEDULE ON SHEET ____.
-  SWITCHBOARD/SWITCHGEAR SECTION, SIZE AND VOLTAGE AS INDICATED.

- [EXAMPLE] PANELBOARD NAMING CONVENTION**
- FLOOR LEVEL
 - POWER SYSTEM (N=NORMAL, E=EMERGENCY (NEC 700), L=LEGALLY REQUIRED (NEC 701), S=OPTIONAL STANDBY(NEC 702)
 - VOLTAGE SYSTEM (H=480Y/277V, L=208Y/120V)
 - LOAD TYPE (D=DISTRIBUTION, L=LIGHTING, M=MECHANICAL, C=IT, P=ELECTRICAL)
 - BUILDING AREA WHERE PANEL IS LOCATED
 - INDIVIDUAL PANELBOARD NUMBER

AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT

703 RIVERBEND RD, MACON, GA 31211



DESIGNER



CLARK NEXSEN

3920 ARKWRIGHT ROAD SUITE 385
MACON, GEORGIA 31210
478-743-8415

PROFESSIONAL SEAL



6/1/2026

SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET

ELECTRICAL LEGEND, NOTES AND ABBREVIATIONS

E-001

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

CN 10709-100

MACON WATER AUTHORITY (MWA)
**AMERSON WATER
 TREATMENT PLANT
 GENERATOR FUEL
 SYSTEM REPLACEMENT**

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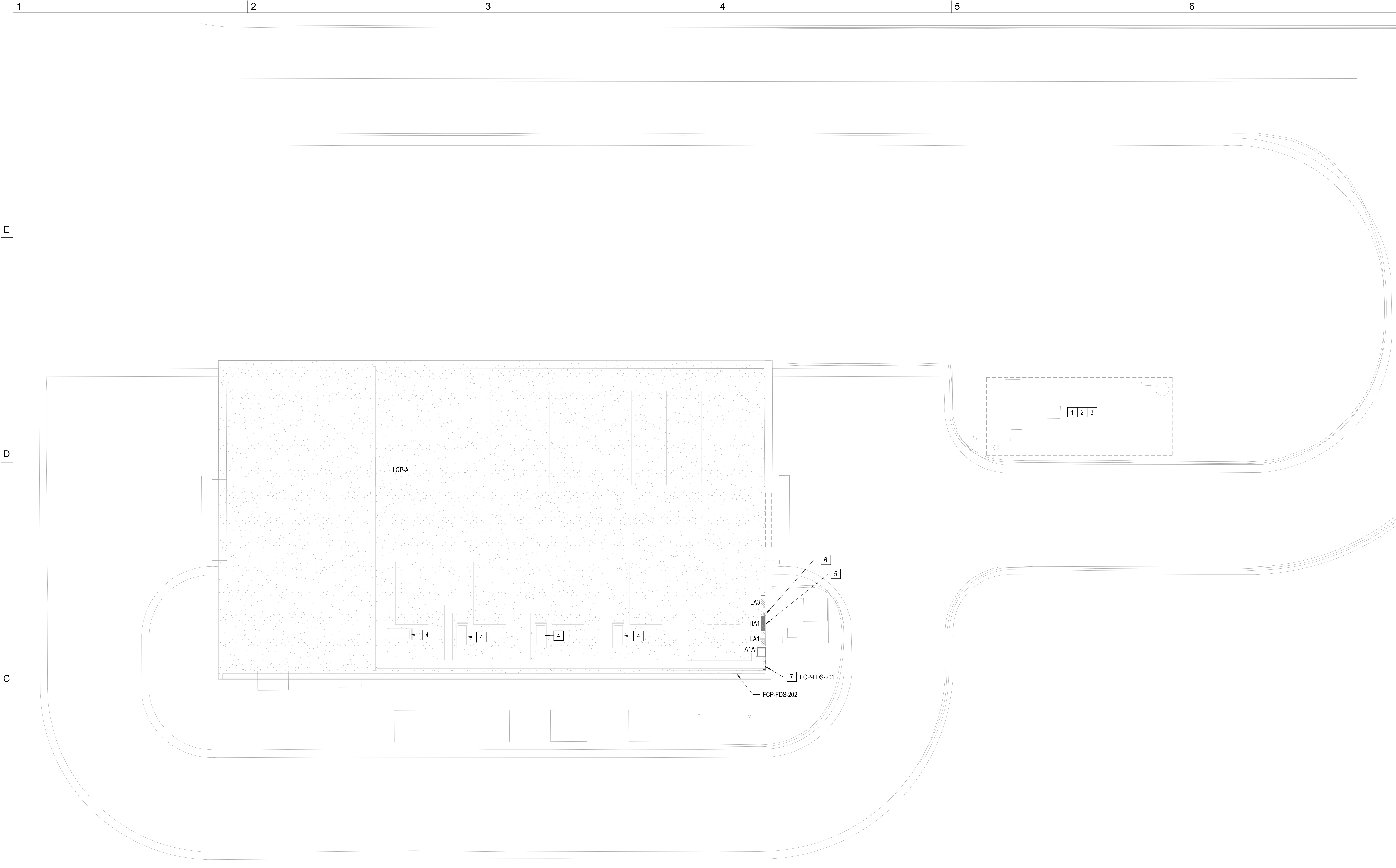
SHEET

ELECTRICAL DEMOLITION SITE PLAN

ED101

DESIGN: Designer
 DRAWN: Author
 REVIEW: Checker

CN 10709-100



B1 ELECTRICAL DEMOLITION SITE PLAN

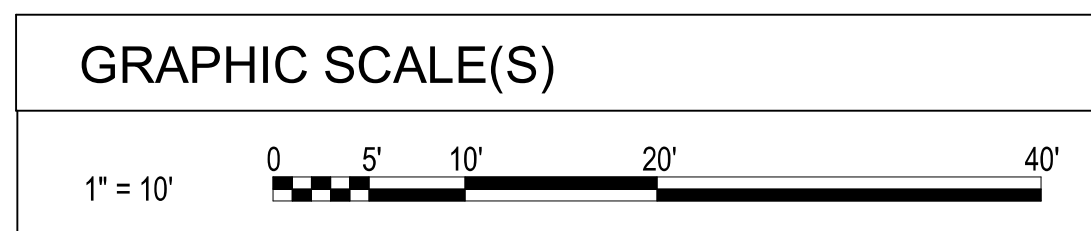
SCALE: 1" = 10'-0"

GENERAL NOTES

- A. REFER TO SHEET E-001 FOR GENERAL NOTES.
- B. PROVIDE GROUNDING FOR FUEL TANKS AND PUMP SKID ENCLOSURES.
- C. REFER TO LOW VOLTAGE POWER RISER DIAGRAM ON SHEET E-601 FOR EQUIPMENT AND CIRCUIT SIZES.

KEY NOTES

- 1. EXISTING SUMP PUMP, FUEL SUPPLY PUMPS AND ALL ASSOCIATED APPURTENANCES TO BE DECOMMISSIONED WITHIN EXISTING FUEL OIL STORAGE VAULT. FIELD COORDINATE THE SEQUENCE OF WORK AS REQUIRED. DISCONNECT AND REMOVE POWER AND CONTROL WIRING ASSOCIATED WITH THE EXISTING FUEL PUMP SYSTEM UPON COMPLETE INSTALLATION AND THE VERIFIED TESTING AND APPROVAL OF USE OF THE NEW FUELING PUMP SYSTEM. EXISTING UNDERGROUND CONDUITS SHALL BE ABANDONED IN PLACE. SEGMENTS OF EXISTING CONDUIT EXPOSED ABOVEGROUND SHALL BE PARTIALLY REMOVED AND CAPPED ON ENDS AT 6" ABOVE SLAB OR GRADE.
- 2. <varies>
- 3. EXISTING LIGHTING INCLUDING RELATED CONTROLS AND CIRCUITING ASSOCIATED WITH THE OIL STORAGE VAULT SHALL REMAIN. DISCONNECT AND REMOVE EXISTING LIGHTING INCLUDING RELATED CONTROLS AND CIRCUITING ASSOCIATED WITH THE FUEL STORAGE VAULT. FIELD COORDINATE SEQUENCE OF WORK AS REQUIRED.
- 4. EXISTING DAY TANK CONTROLS TO BE REMOVED. DISCONNECT AND REMOVE RELATED POWER AND CONTROL WIRING. DISCONNECT AND REMOVE ALL CONTINUOUS RUNS OF EXISTING CONDUITS EXPOSED ABOVEGROUND BETWEEN SOURCE AND LOAD. EXISTING UNDERGROUND CONDUITS SHALL BE ABANDONED IN PLACE. SEGMENTS OF CONDUIT EXPOSED ABOVEGROUND SHALL BE PARTIALLY REMOVED AND CAPPED ON ENDS AT 6" ABOVE SLAB OR GRADE.
- 5. DISCONNECT AND REMOVE ONE (1) EXISTING 20-AMP, 3-POLE CIRCUIT BREAKER AND THREE (3) EXISTING 20-AMP, 1-POLE CIRCUIT BREAKERS AT PANEL INDICATED.
- 6. EXISTING COMBINATION MOTOR/STARTER DISCONNECT SWITCH FOR VAULT PUMPS SHALL REMAIN. REFER TO KEYNOTE 1 ON THIS SHEET FOR ADDITIONAL DETAILS OF DEMOLITION SCOPE.
- 7. EXISTING CONTROL PANEL FCP-FDS-201 BE REMOVED. MAINTAIN RELATED BRANCH CIRCUITING FOR REUSE.
- 8. EXISTING LIGHTING INCLUDING RELATED CONTROLS AND CIRCUITING ASSOCIATED WITH THE OIL STORAGE VAULT SHALL REMAIN. DISCONNECT AND REMOVE EXISTING LIGHTING INCLUDING RELATED CONTROLS AND CIRCUITING ASSOCIATED WITH THE FUEL STORAGE VAULT. FIELD COORDINATE SEQUENCE OF WORK AS REQUIRED.



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DESIGNER

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REVISIONS

NO.	DESCRIPTION

KEY PLAN

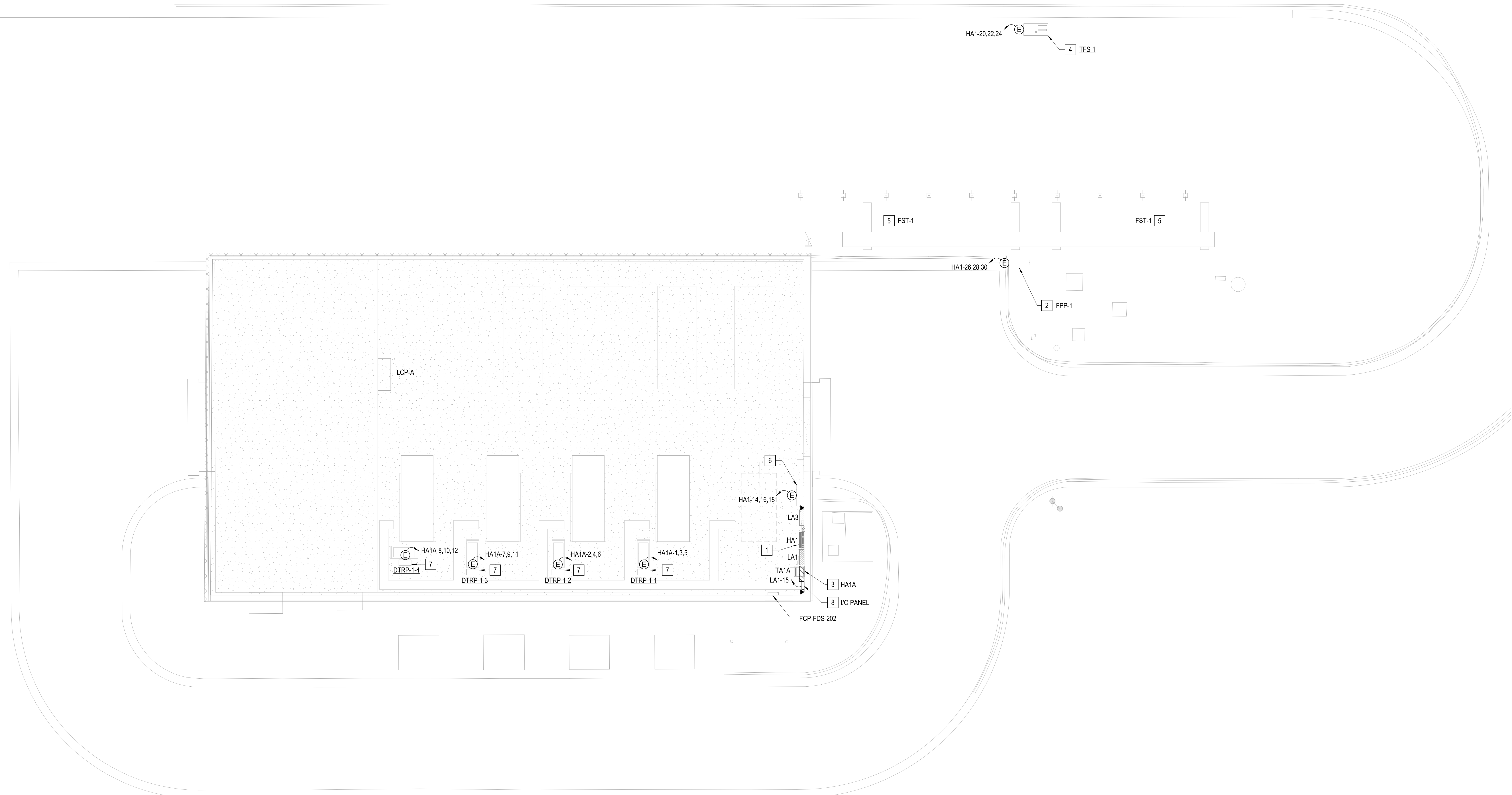
SHEET

ELECTRICAL SITE PLAN

ES101

DESIGN: Designer
 DRAWN: Author
 REVIEW: Checker

CN 10709-100



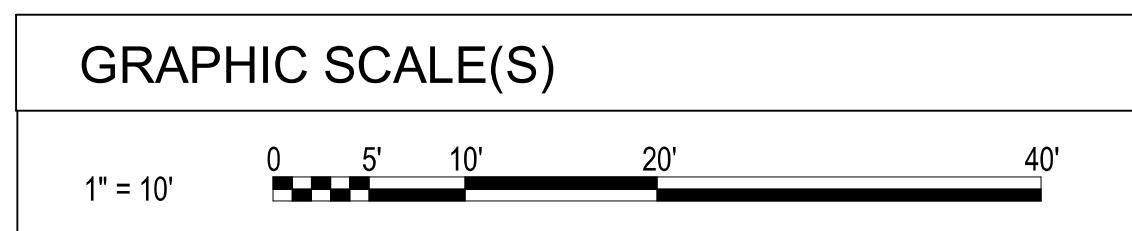
B1 ELECTRICAL SITE PLAN
 SCALE: 1" = 10'-0"

GENERAL NOTES

- A. REFER TO SHEET E-001 FOR GENERAL NOTES.
- B. PROVIDE GROUNDING FOR FUEL TANKS AND PUMP SKID ENCLOSURES.
- C. REFER TO LOW VOLTAGE POWER RISER DIAGRAM ON SHEET E-601 FOR EQUIPMENT AND CIRCUIT SIZES.

KEY NOTES

1. PROVIDE ONE (1) 30-AMP, 3-POLE CIRCUIT BREAKER AND THREE (3) 15-AMP, 3-POLE CIRCUIT BREAKERS. DEVICE TYPE, MODEL AND AIC RATING SHALL MATCH EXISTING DEVICE INSTALLATIONS AT PANEL INDICATED. REFER TO PANEL SCHEDULE PANEL HA1 (MODIFIED) FOR ADDITIONAL INFORMATION.
2. PROVIDE BRANCH CIRCUIT CONSISTING OF (3)#12, (1)#12G IN 3/4" FOR FUEL POLISHING PUMP SKID. CONNECT TO PANEL AND CIRCUIT INDICATED. UNIT TO BE FURNISHED WITH DISCONNECT AND CONTROLLER. USE PIPE BRIDGE FOR CONDUIT ROUTING ABOVEGROUND BETWEEN BUILDING EXTERIOR AND PUMP SKID.
3. PROVIDE PANEL HA1A INCLUDING RELATED FEEDER. REFER TO LOW VOLTAGE POWER RISER DIAGRAM - NEW WORK ON SHEET EP701 FOR ADDITIONAL INFORMATION. INSTALL PANEL ABOVE IN FREE SPACE ADJACENT TO TRANSFORMER INDICATED FOR ADEQUATE WORKING CLEARANCE.
4. PROVIDE BRANCH CIRCUIT CONSISTING OF (3)#12, (1)#12G IN 3/4" FOR TANK FILL STATION SKID. CONNECT TO PANEL AND CIRCUIT INDICATED. UNIT TO BE FURNISHED WITH DISCONNECT AND CONTROLLER. USE PIPE BRIDGE FOR CONDUIT ROUTING ABOVEGROUND BETWEEN BUILDING EXTERIOR AND SKID.
5. PROVIDE GROUNDING FOR ALL FUEL TANKS AND SKID ENCLOSURES AS REQUIRED.
6. PROVIDE BRANCH CIRCUIT CONSISTING OF (3)#12, (1)#12G IN 3/4" FOR FUEL SUPPLY PUMP SKID. CONNECT TO PANEL AND CIRCUIT INDICATED. UNIT TO BE FURNISHED WITH DISCONNECT AND CONTROLLER. PROVIDE DATA OUTLET AND EMPTY 3/4" CONDUIT WITH PULLSTRING BETWEEN DEVICE AND EXISTING PANEL LCP-A.
7. PROVIDE BRANCH CIRCUIT CONSISTING OF (3)#12, (1)#12G IN 3/4" FOR DAY TANK RETURN PUMP SKID. CONNECT TO PANEL AND CIRCUIT INDICATED. UNIT TO BE FURNISHED WITH DISCONNECT AND CONTROLLER.
8. PROVIDE BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12G IN 3/4" FOR I/O PANEL. CONNECT TO PANEL AND CIRCUIT INDICATED. PROVIDE DATA OUTLET AND EMPTY 3/4" CONDUIT WITH PULLSTRING BETWEEN DEVICE AND EXISTING PANEL LCP-A.



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