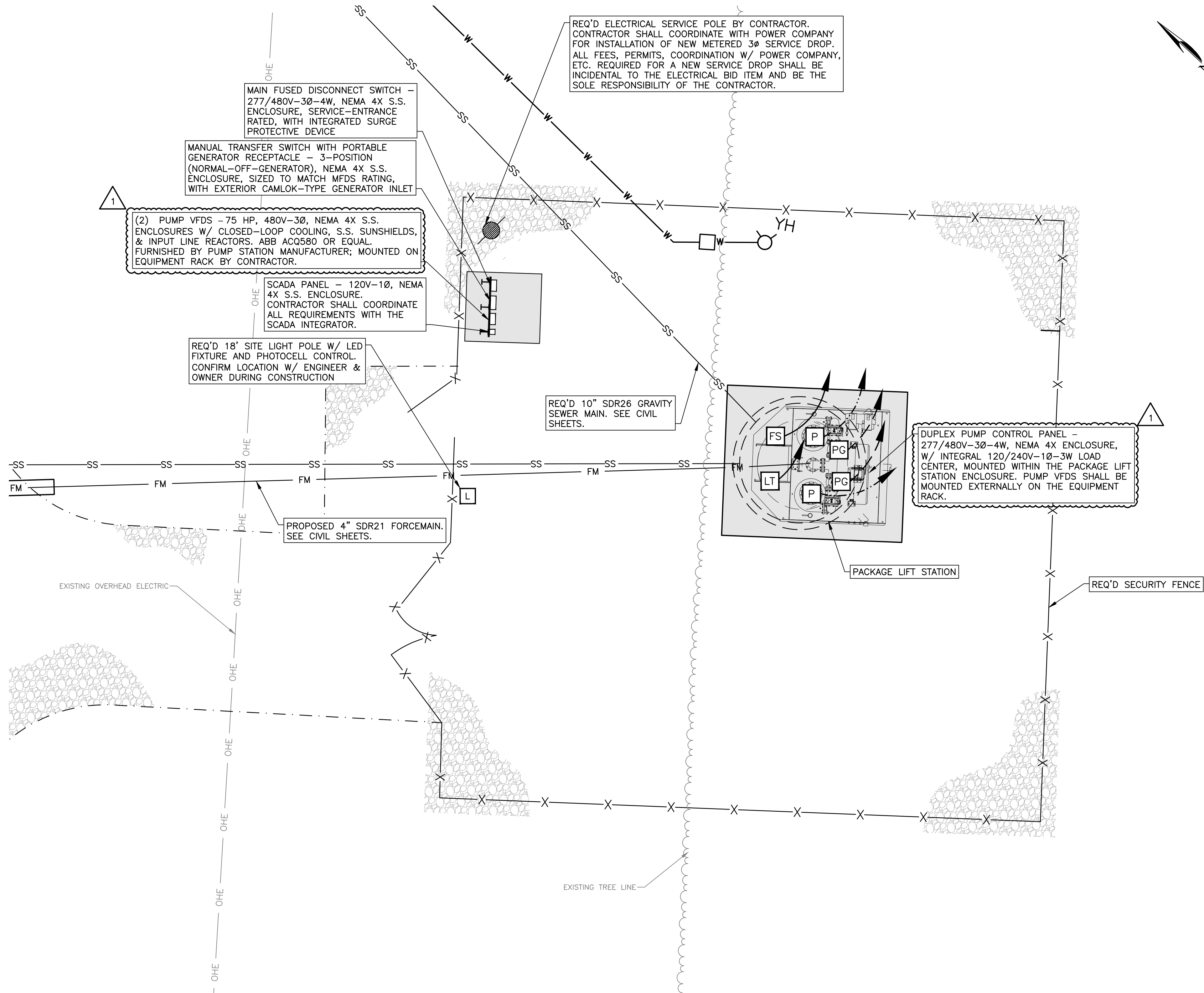


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R:\2024\240032 COLBERT WATER & SEWER UPGRADES ON RESERVATION\7.0 CAD\BASE PLAN\JEDC CONSTRUCTION DRAWINGS\EP01.DWG

EQUIPMENT RACK NOTE:

1. IN ADDITION TO THE MAIN FUSED DISCONNECT SWITCH, MANUAL TRANSFER SWITCH WITH PORTABLE GENERATOR RECEPTACLE, AND SCADA PANEL SHOWN, THE TWO (2) PUMP VFDS SHALL ALSO BE MOUNTED ON THE EQUIPMENT RACK. THE RACK AND PAD SIZE AND LOCATION SHOWN ON THE DRAWINGS ARE CONCEPTUAL. THE CONTRACTOR SHALL DETERMINE THE FINAL RACK LAYOUT AND PAD SIZE BASED ON THE APPROVED SUBMITTALS FOR ALL RACK-MOUNTED EQUIPMENT (MAIN FUSED DISCONNECT SWITCH, MANUAL TRANSFER SWITCH AND GENERATOR RECEPTACLE, SCADA PANEL, AND VFDS), NEC WORKING CLEARANCES, AND THE EQUIPMENT RACK AND PAD DETAIL. THE RACK SHALL BE LOCATED WITHIN THE FENCED STATION SITE, OUTSIDE OF VEHICLE ACCESS PATHS, AT THE GENERAL LOCATION SHOWN. THE FINAL LOCATION SHALL BE SUBMITTED FOR ENGINEER APPROVAL WITH THE ELECTRICAL SUBMITTALS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE FINAL RACK OR PAD SIZE OR LOCATION.



ELECTRICAL SITE PLAN

SCALE: 1/4" = 1'

ELECTRICAL NOTES:

- ELECTRICAL, INSTRUMENTATION, AND SCADA/RTU SYSTEM DESIGN SHOWN ON THESE PLANS IS CONCEPTUAL/SCHEMATIC ONLY AND IS PROVIDED FOR BIDDING AND COORDINATION PURPOSES. FINAL ELECTRICAL DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO EQUIPMENT PROCUREMENT AND INSTALLATION.
- ALL ELECTRICAL DESIGN DOCUMENTS SHALL BE PREPARED, SIGNED, AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF ALABAMA. CONTRACTOR SHALL SUBMIT A COMPLETE ELECTRICAL SUBMITTAL PACKAGE (SINGLE LINE DIAGRAM(S), PANEL SCHEDULES, SCADA RTU POINT LIST, AND PRODUCT DATA/SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT) FOR ENGINEER REVIEW PRIOR TO PROCUREMENT.
- CONTROL DIAGRAMS AND SCHEMATICS, WHERE SHOWN, ARE FOR CONCEPT ONLY AND DO NOT SHOW ALL REQUIRED CONTROLS. THE PUMP CONTROL PANEL/STARTER MANUFACTURER IS RESPONSIBLE FOR THE DETAILED DESIGN OF ALL CONTROL WIRING, RELAYS, TIMERS, AND INTERLOCKS REQUIRED FOR A COMPLETE AND PROPERLY OPERATING SYSTEM, COORDINATED WITH THE MOTOR, SCADA, AND INSTRUMENTATION MANUFACTURERS.
- SAFETY, INCLUDING BUT NOT LIMITED TO COORDINATION WITH OTHERS FOR CIRCUITS OR EQUIPMENT THAT IS LIVE OR MAY BECOME LIVE, IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR. THE OWNER AND THE ENGINEER ARE NOT RESPONSIBLE FOR SAFETY.
- ELECTRICAL SYSTEMS AND DEVICES SHALL BE INSTALLED PER THE NATIONAL ELECTRICAL CODE (NFPA 70), CURRENT EDITION AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION, WITH MODIFICATIONS AS REQUIRED TO SUIT EXISTING CONDITIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, AND CERTIFICATES OF INSPECTION AND APPROVAL ASSOCIATED WITH THE ELECTRICAL WORK.
- THE ENTIRE ELECTRICAL INSTALLATION WITHIN HAZARDOUS AREAS, AS DEFINED BY DETAIL "HAZARDOUS AREA CLASSIFICATION" OR BY NFPA 820, SHALL COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS FOR CONDUIT SEALS, RACEWAY TYPES, AND MATERIAL/DEVICE TYPES RATED FOR THE CLASSIFIED AREA.
- CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR POWER SERVICE WITH THE UTILITY COMPANY PRIOR TO SUBMITTING BID. IF UTILITY REQUIREMENTS ARE AT VARIANCE WITH THOSE SHOWN ON PLANS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY. ALL COSTS INCURRED WITH THE UTILITY COMPANY FOR SERVICE SHALL BE INCLUDED IN THE BID PRICE.
- CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL ELECTRICAL AND MECHANICAL EQUIPMENT FROM MANUFACTURER'S SUBMITTALS PRIOR TO ROUGHING IN CONDUIT, AND SHALL ADJUST CONDUIT SIZE, WIRE SIZE, AND CIRCUIT PROTECTION ACCORDINGLY. EQUIPMENT LOCATIONS AND SIZES SHOWN ARE CONCEPTUAL; CONTRACTOR SHALL VERIFY THAT ALL FURNISHED EQUIPMENT FITS WITHIN THE SPACE AND CLEARANCES INDICATED AND AVAILABLE IN THE FIELD, AND SHALL STUB UP CONDUITS PER THE FINAL APPROVED ELECTRICAL SUBMITTAL. NOTIFY ENGINEER IF REQUIREMENTS EXCEED WHAT IS SHOWN.
- CONTRACTOR SHALL COORDINATE ALL UNDERGROUND ELECTRICAL WORK WITH EXISTING UNDERGROUND UTILITIES (SEWER, WATER, GAS, TELEPHONE, DRAINAGE, ETC.). UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST.
- ALL LOCATIONS SHOWN FOR INSTRUMENTATION AND EQUIPMENT (LT, FS, PG, ETC.) ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE THE EXACT FIELD LOCATION OF ALL EQUIPMENT AND PROVIDE ELECTRICAL SERVICE OR CONTROLS AT THE CLOSEST APPROPRIATE JUNCTION BOX. THESE PLANS DO NOT NECESSARILY DEPICT EXACT CONDUIT ROUTING OR METHOD OF ACCESS TO STRUCTURES; CONTRACTOR SHALL SUBMIT PROPOSED ROUTING TO THE ENGINEER AND OWNER FOR APPROVAL, ADJUSTING AS REQUIRED IN THE FIELD TO AVOID CONFLICTS WITH NEW OR EXISTING PIPING, STRUCTURES, AND EQUIPMENT. FLEXIBLE CONDUIT RUNS BETWEEN DISCONNECTS/RACEWAYS AND EQUIPMENT JUNCTION BOXES SHALL BE LIMITED TO 18" MAXIMUM.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NEC, WHETHER SHOWN ON DRAWINGS OR NOT. SEE DETAILS FOR TYPICAL GROUNDING REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE PROPERLY SIZED ENCLOSURES AND WIREWAYS FOR ALL WIRING, INCLUDING MULTIPLE LUGS PER PHASE WHERE REQUIRED. CONNECT SINGLE-PHASE LOADS IN A MANNER THAT BALANCES PHASE LOADING ON PANELS AND TRANSFORMERS.
- ALL EXTERIOR DISCONNECT SWITCHES, CONTROL PANELS, AND OTHER EXTERIOR ELECTRICAL DEVICES SHALL BE FURNISHED IN NEMA 4X STAINLESS STEEL ENCLOSURES UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE GFCI PROTECTION FOR ALL RECEPTACLE CIRCUITS LOCATED OUTDOORS, IN WET OR POTENTIALLY WET LOCATIONS, OR IN PARTIALLY ENCLOSED AREAS. ALL SUCH RECEPTACLES SHALL BE WEATHERPROOF-IN-USE RATED.
- CONTRACTOR SHALL PROVIDE PERMANENT LAMINATED LABELS (3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND, MINIMUM 1" WIDE, STAINLESS STEEL HARDWARE) FOR EACH DISCONNECT SWITCH, CONTROL DEVICE, AND FEEDER BREAKER. PRESSURE-SENSITIVE "STICK-ON" LABELS ARE NOT ALLOWED. PROVIDE ADDITIONAL WARNING LABELS AT THE DUPLEX PUMP CONTROL PANEL AND MANUAL TRANSFER SWITCH INDICATING MULTIPLE POWER SOURCES (NORMAL UTILITY AND PORTABLE GENERATOR); OPENING THE MAIN DISCONNECT DOES NOT NECESSARILY DE-ENERGIZE ALL CONDUCTORS WITHIN THE PANEL.
- ALL SPARE CONDUIT SHALL BE PROVIDED WITH A TRACEABLE NONMETALLIC FISH ROPE AND CAPPED (RGS CAPS FOR RGS CONDUIT, PVC CAPS FOR PVC CONDUIT).
- NO SPLICES SHALL BE INSTALLED BETWEEN TERMINATIONS EXCEPT WHERE SHOWN OR DETAILED ON THE DRAWINGS. UNDERGROUND SPLICES ARE NOT ALLOWED FOR ANY SERVICE UNLESS OTHERWISE NOTED.
- ALL CONDUIT SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS. ALL EXPOSED OR VISIBLE CONDUIT, FITTINGS, WIREWAYS, GUTTERS, AND APPURTENANCES SHALL BE RIGID ALUMINUM / PVC-COATED RIGID STEEL EXCEPT LOW-VOLTAGE CIRCUITS; SEAL-TITE FLEXIBLE CONDUIT IS PERMITTED BETWEEN PANELS AND EQUIPMENT WHERE NECESSARY. UNDERGROUND CONDUIT SHALL BE ENCASED IN A MINIMUM OF 3" RED CONCRETE ALL AROUND, MINIMUM 18" BELOW GRADE UNLESS SHOWN OTHERWISE. CONDUIT STUBBED OUT FOR FUTURE CONNECTION SHALL TERMINATE A MINIMUM OF 5'-0" BEYOND ANY FOUNDATION. ALL CONDUIT AND EQUIPMENT SHALL BE PROTECTED FROM CONTACT WITH CONCRETE AND OTHER CORROSIVE MATERIALS; PROVIDE MATERIALS SUITABLE FOR EXPOSURE TO A WASTEWATER/HYDROGEN SULFIDE ENVIRONMENT.
- WARNING TAPE SHALL BE INSTALLED 6" BELOW FINISHED GRADE AND DIRECTLY ABOVE ALL UNDERGROUND FEEDERS, PERMANENTLY MARKED TO DESCRIBE THE SERVICE BURIED BENEATH.
- ALL HARDWARE, HANGERS, UNISTRUT, CABLE TRAYS, CLAMPS, AND SIMILAR SUPPORT MATERIALS UTILIZED ON THIS PROJECT SHALL BE STAINLESS STEEL.
- PROVIDE REMOVABLE SEALANT (UNLESS PERMANENT SEALANT IS CALLED FOR) AT ALL CONDUIT ENTRY POINTS INTO THE WETWELL, WWJB, VALVE VAULT, AND ANY PANEL OR JUNCTION BOX RECEIVING CIRCUITS CONNECTED, DIRECTLY OR INDIRECTLY, TO THOSE AREAS.
- NO CONDUIT, RACEWAY, OR ELECTRICAL APPURTENANCE SHALL BE INSTALLED IN A MANNER THAT CREATES A TRIPPING HAZARD OR OBSTRUCTS PASSAGE OR HEADROOM.
- CONTRACTOR SHALL FURNISH OPERATION & MAINTENANCE MANUALS FOR ALL ELECTRICAL GEAR, CONTROL PANELS, AND INSTRUMENTATION FURNISHED UNDER THIS CONTRACT.
- KEEP FREE ENDS OF ALL CABLE TIGHTLY SEALED TO PREVENT THE ENTRANCE OF MOISTURE DURING STORAGE AND AT ALL TIMES WHEN CABLE IS NOT BEING ACTIVELY PULLED.
- CONTRACTOR SHALL ADJUST ALL CONTROLS, RELAYS, TIMERS, FLOATS, SETPOINTS, AND ALARMS PRIOR TO STARTUP TO ENSURE PROPER OPERATION AND PREVENT NUISANCE TRIPS OR ALARMS; READJUST AS NECESSARY FOLLOWING STARTUP IN COORDINATION WITH EQUIPMENT MANUFACTURERS, ENGINEER, AND OWNER.
- ALL ELECTRICAL SYSTEMS, ASSEMBLIES, AND COMPONENTS FURNISHED SHALL BE UL LISTED.
- THE USE OF THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL, AND WIRE THE ASSOCIATED DEVICE OR EQUIPMENT, COMPLETE AND READY FOR ITS INTENDED USE.

ELECTRICAL LEGEND	
MARK	DESCRIPTION
PG	PRESSURE GAUGE
LT	LEVEL TRANSDUCER
P	PUMP
FS	FLOAT SWITCH
L	LIGHT FIXTURE, LITHONIA DSX0-LED-P5-40K-T4M-MVOLT-RPA-H S-DBXD ON LITHONIA RSS184B-DM191AS-DBXD ROUND STRAIGHT STEEL POLE
	SUBMERSIBLE CABLING (FLOAT SWITCHES & LEVEL TRANSDUCER) TO PUMP CONTROL PANEL & SCADA PANEL
	CONDUIT & WIRING FROM PRESSURE GAUGE TRANSMITTERS (PG) TO SCADA PANEL
	CONDUIT & WIRING FROM PUMP MOTORS TO PUMP CONTROL PANEL & VFDS

REVISIONS	
DESCRIPTION	DATE
ADDENDUM 1 REVISIONS	9/2026
1	
2	
3	
4	
5	
6	

ELECTRICAL SITE PLAN
SAN. SEWER LIFT STATION IMPROVEMENTS
CITY OF SHEFFIELD
COLBERT COUNTY COMMISSION
COLBERT COUNTY, ALABAMA

THE KELLEY GROUP
A CIVIL ENGINEERING COMPANY
301 N. Dickson St.
Tusculum, Alabama 35694
800 Corporate Pkwy, Suite 100
Birmingham, Alabama 35242

ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR ≠ 1 INCH.
1"

PROJECT NO: 24-0032
DRAWN BY: SMS
CHECKED BY: BWT
SCALE: AS NOTED
DATE: 09/2026

SHEET NO.
E-1

