



1. THE SCE&G WILL PROVIDE A NEW AERIAL SERVICE TO THE WELL. COORDINATE WITH HUBERT GIBBS, CUSTOMER SERVICE ENGINEERING, 843-576-8652.
2. SELF-CONTROLS METER INSTALLED PER SCE&G REQUIREMENTS.
3. SURGE PROTECTION INTEGRAL TO CONTROL PANEL. PROVIDE: ASCO 400 SERIES CAT. NO. 430-4800-P-20-A-C-A-J-2
4. EXTEND CONDUIT TO SCADA POLE. EXTEND CONDUIT 48" UP POLE. SEAL W/ DUCT SEAL.
5. PROVIDE A CONDUIT WINDOW BENEATH THE PANELS THROUGH THE CONCRETE PADS. THE WINDOW SHALL BE 12" DEEP AND EXTEND THE FULL WIDTH OF THE PANEL. EXCEPT FOR FREE-STANDING ENCLOSURES, THE WINDOW SHALL EXTEND THE WIDTH INSTALLATION. FILL THE WINDOW WITH CRUSHED GRAVEL.
6. MOUNT SWITCH ON EQUIPMENT FRAME.
7. VFD RUN/STOP/SPEED CONTROL/STATUS/FEEDBACK TO SCADA PANEL. PROVIDE 2" C W/NO.14 CONDUCTORS AS REQUIRED AND REQUIRED AND NO.16 T.S. PAIR CABLE (BELDEN 5240F1) AS REQUIRED. COORDINATE WITH SCADA PROVIDER.
8. PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS: BREAK-FIRST/MAKE-LAST. INTERCONNECT VFD CONTROL CIRCUIT SUCH THAT THE DISCONNECT WILL OPENIZE THE LOAD BEFORE THE DISCONNECT SWITCH OPENS.
9. MOUNT TRANSFORMER ON EQUIPMENT FRAME, INDEPENDANT OF THE CONTROL PANEL. EXTEND CONDUIT AND WIRE AS INDICATED.
10. THE PUMP CONTROL PANEL SHALL BE A FRAME MOUNTED NEMA 4X STAINLESS STEEL ENCLOSURE CONTAINING ALL NECESSARY EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM. THE PANEL SHALL BE FURNISHED WITH DOOR- WITHIN-DOOR CONSTRUCTION WHERE ALL MANUALLY OPERATED CONTROLS, DISPLAYS AND INDICATOR LIGHTS ARE MOUNTED IN THE INNER DOOR. THE EXTERIOR DOOR SHALL BE PROVIDED WITH A 3-POINT LATCH THAT MAINTAINS THE NEMA 4X RATING OF THE ENCLOSURE. THE FOLLOWING LIST OF EQUIPMENT AND FEATURES SHALL BE PROVIDED. HOWEVER, THE LIST IS NOT EXHAUSTIVE AND ALL REQUIRED EQUIPMENT FOR CONTROL AND OPERATION SHALL BE PROVIDED AS PART OF THIS PROJECT.
 - MAIN POWER LUGS
 - POWER DISTRIBUTION LUGS
 - OVERCURRENT PROTECTION FOR BRANCH FEEDERS
 - INTEGRAL SURGE PROTECTION DEVICE
 - 240/120V 1-PHASE DISTRIBUTION LUGS
 - 1-POLE AND 2-POLE BRANCH CIRCUIT BREAKERS
 - TERMINAL STRIPS FOR ANALOG AND DIGITAL I/O SIGNALS

THE PUMP CONTROL PANEL SHALL BE FABRICATED AND LABELED BY A U.L. 508 FABRICATION SHOP.

11. PROVIDE EXTERNALLY MOUNTED VARIABLE FREQUENCY DRIVE IN A NEMA 4X STAINLESS STEEL ENCLOSURE (PROVIDED WITH THE DRIVE BY THE DRIVE MANUFACTURER). THE VFD SHALL BE PROVIDED WITH THE HARMONIC MITIGATION EQUIPMENT AS RECOMMENDED BY THE DRIVE MANUFACTURER AS REQUIRED TO MEET THE SPECIFICATIONS.
12. PROVIDE SHORT CIRCUIT COORDINATION STUDY AND ARC FLASH STUDY AS REQUIRED BY SPECIFICATION SECTION 1605S.
13. FOR BIDDING PURPOSES, FURNISH A 60' CLASS 4 PRESSURE TREATED POLE. ACTUAL POLE HEIGHT SHALL BE DETERMINED BY RADIO PATH STUDY PERFORMED BY DORSETT TECHNOLOGIES. INCREASE/DECREASE IN REQUIRED POLE SHALL BE HANDLED VIA CHANGE ORDER BETWEEN ELECTRICAL AND GENERAL CONTRACTORS.

