

**ELECTRICAL PANEL NOTES:**

1. TELEMETRY ANTENNA AND RELATED R.T.U. EQUIPMENT SHALL BE INSTALLED BY THE CONTRACTOR.
2. ALL CONDUIT SIZES INCLUDING TO FP&L SHALL BE SIZED FOR TWICE THE INSTALLED HORSEPOWER CAPACITY.
3. ALL WIRES SHALL BE XHHW.
4. BOND WIRE SIZED PER NEC TABLE 250-95 SHALL BE INSTALLED FROM THE GROUND BUS IN THE CONTROL PANEL TO EACH MOTOR CASING.
5. CONNECT PUMP AND FLOAT CABLES IN NEMA 3 R WIREWAY WITH TERMINAL STRIP COMMECTORS. NO SPLICED WIRES ALLOWED. ALL PIPE/CONDUIT CONNECTIONS FROM WETWELL MUST RUN VIA THE WIREWAY.
6. WETWELL ACCESS DOOR SHALL BE ORIENTED SO AS TO PROVIDE A BARRIER BETWEEN THE ELECTRICAL SWITCH GEAR ASSEMBLY AND THE OPEN WETWELL.
7. CONTRACTOR SHALL COORDINATE ALL SERVICE INSTALLATIONS OF 3 PHASE POWER WITH FP&L FEES TO BE CONTRACTOR'S RESPONSIBILITY. AFTER ACCEPTANCE OF STATION, CONTRACTOR SHALL MAKE ARRANGEMENTS AND COORDINATE TRANSFER OF FP&L SERVICE TO CITY'S ACCOUNT.
8. PROVIDE 5 FEET OF EXCESS WIRE EXPOSED AT SERIVCE WEATHER HEAD OR BOX FOR CONNECTION BY FP&L.
9. IF APPLICABLE, THE L2 CONDUCTOR SHALL BE THE HIGHER VOLTAGE TO GROUND AND BE DURABLY AND PERMANENTLY MARKED BY AN OUTER FINISH THAT IS ORANGE IN COLOR, CLOCKWISE ROTATION.
10. ALL PANELS AND ELECTRICAL BOXES AND ASSOCIATED FITTINGS SHALL BE NEMA 3 R RATED, FOR HAZARDOUS LOCATION.
11. PANELS SHALL BE MOUNTED TO TWO 3" DIAMETER ALUMINUM POST SUPPORTS. PANEL SHALL BE BUILT BY A UL APPROVED SHOP AND ADHERE TO UL STANDARDS. PANEL SHALL HAVE A UL 508 LABEL ON THE INTERIOR OF THE ENCLOSURE DOOR. LENGTH OF THE POST SUPPORTS SHALL BE SIZED SO AS TO PROVIDE FOR 36" OF BURIAL (IN 2500 PSI CONCRETE) AND EXTEND TO 3 INCHES ABOVE THE TOP OF THE SUPPORTS. THE PANEL SHALL BE MOUNTED TO THE POST SUPPORTS WITH 1 5/8" X 1 5/8" 12 GAUGE STAINLESS STEEL UNISTRUT AT A HEIGHT CONSISTENT WITH FP&L'S REQUIREMENT FOR MOUNTING THEIR METER. ALL HARDWARE SHALL BE STAINLESS 316 STEEL.
12. MOUNT AN EMERGENCY GENERATOR RECEPTACLE ON THE DRIVEWAY SIDE OF THE AUTOMATIC TRANSFER SWITCH, APPROXIMATELY FIVE (5) FEET ABOVE FINISH GRADE. TERMINATIONS SHALL BE PIN 1-L1, PIN 2-L2, PIN 3-L3, PIN 4-GROUND.
13. PERFORM START-UP AS INSTRUCTED IN THE SPECIFICATIONS.
14. ALL APPLICABLE ELECTRICAL CODES (LATEST EDITION) MUST BE ADHERED TO INCLUDING WPB, NEC AND FP&L COMPANY REQUIREMENTS.
15. SEE STANDARD DETAILS PARTS LIST.

REVISED: SEPT-2009	SUBMERSIBLE LIFT STATION - ELECTRICAL PANEL NOTES	STANDARD DETAIL
ISSUED: SEPT - 2009	CITY OF WEST PALM BEACH ENGINEERING SERVICES DEPT.	SLS-9