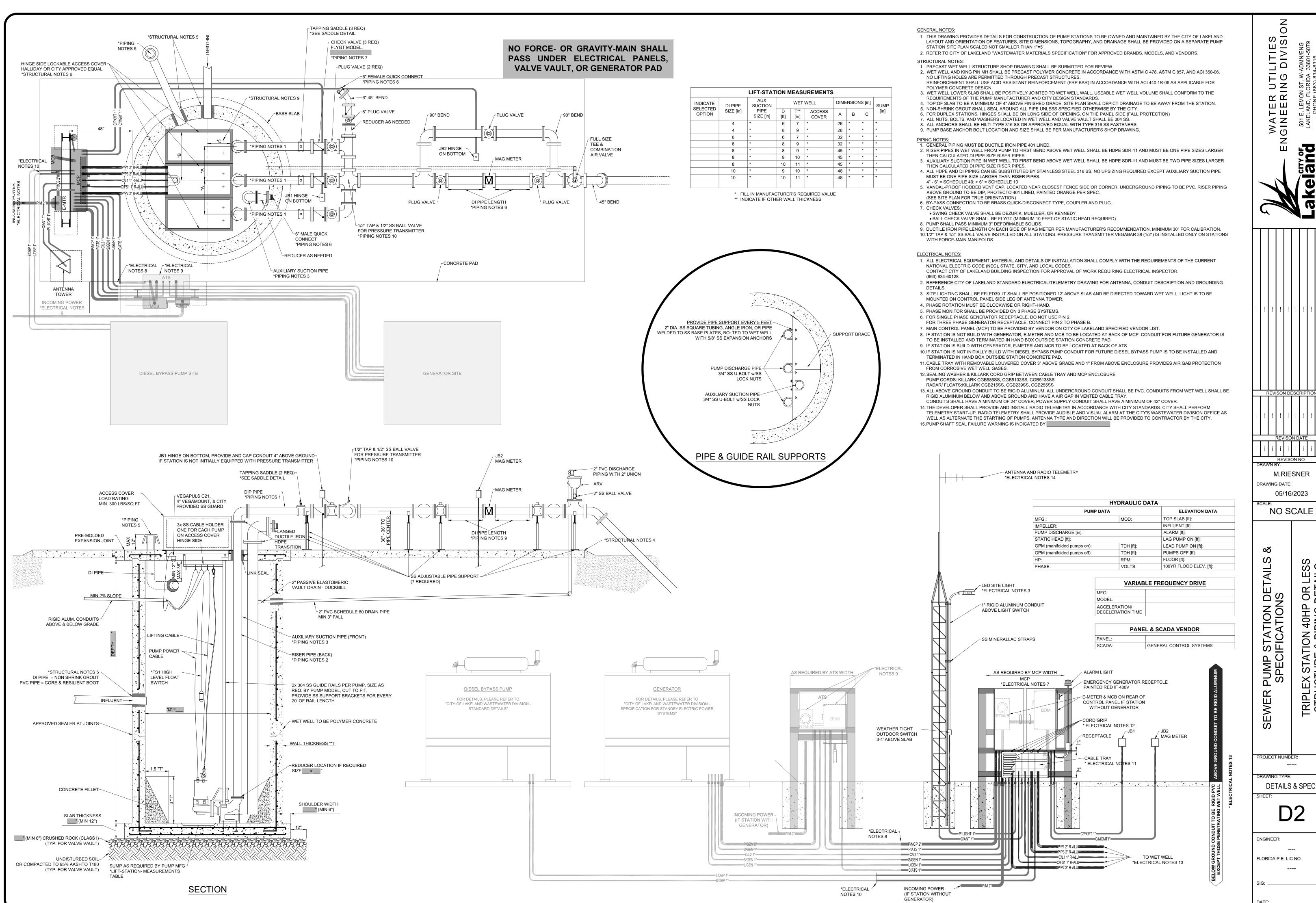


M.RIESNER 05/16/2023

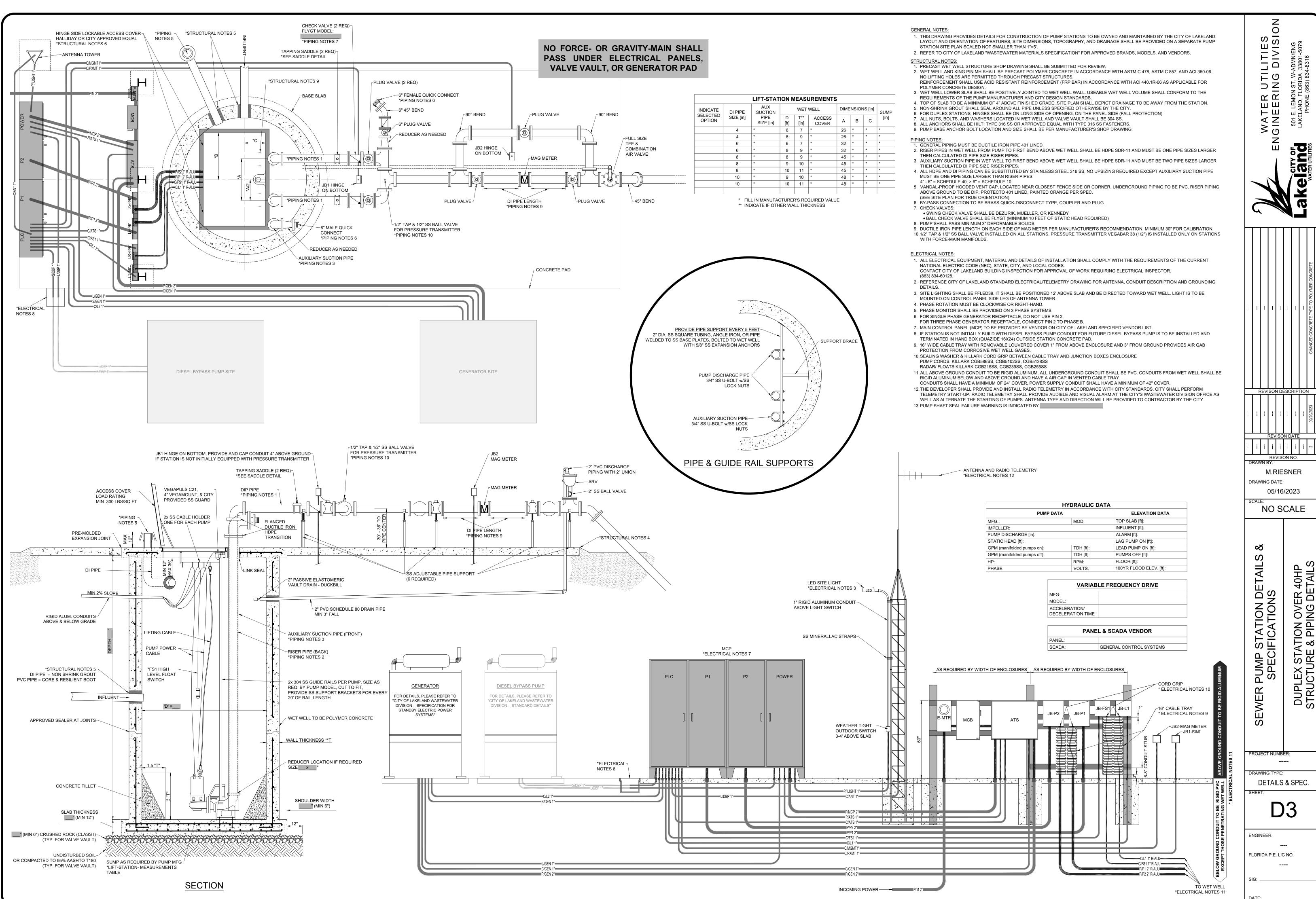
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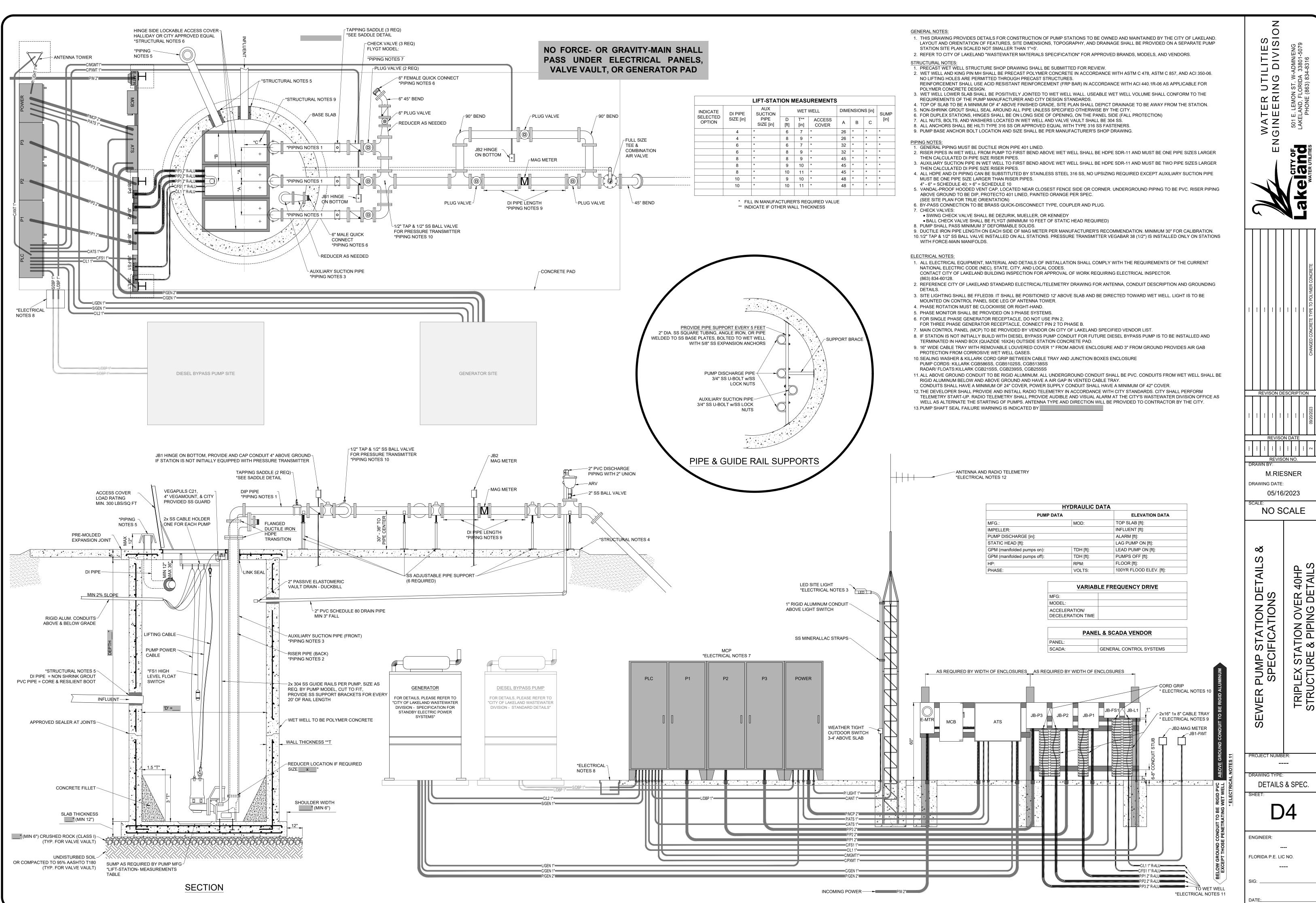
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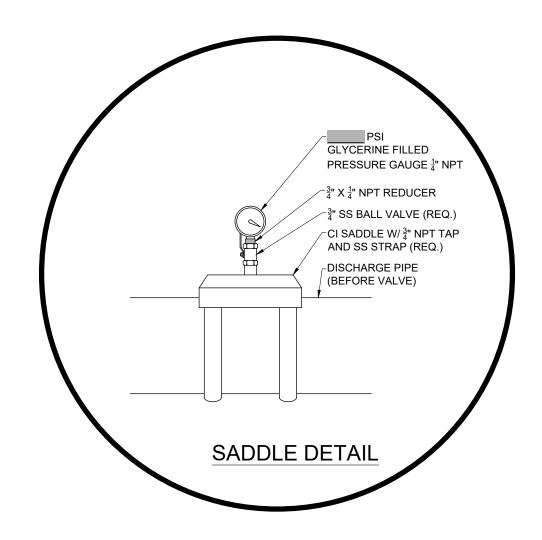


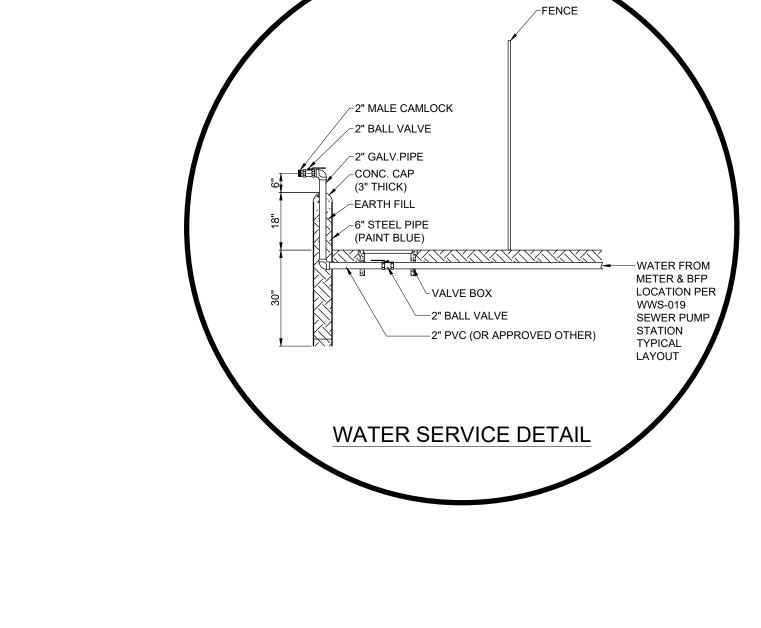
STATION 40HP (

DETAILS & SPEC.









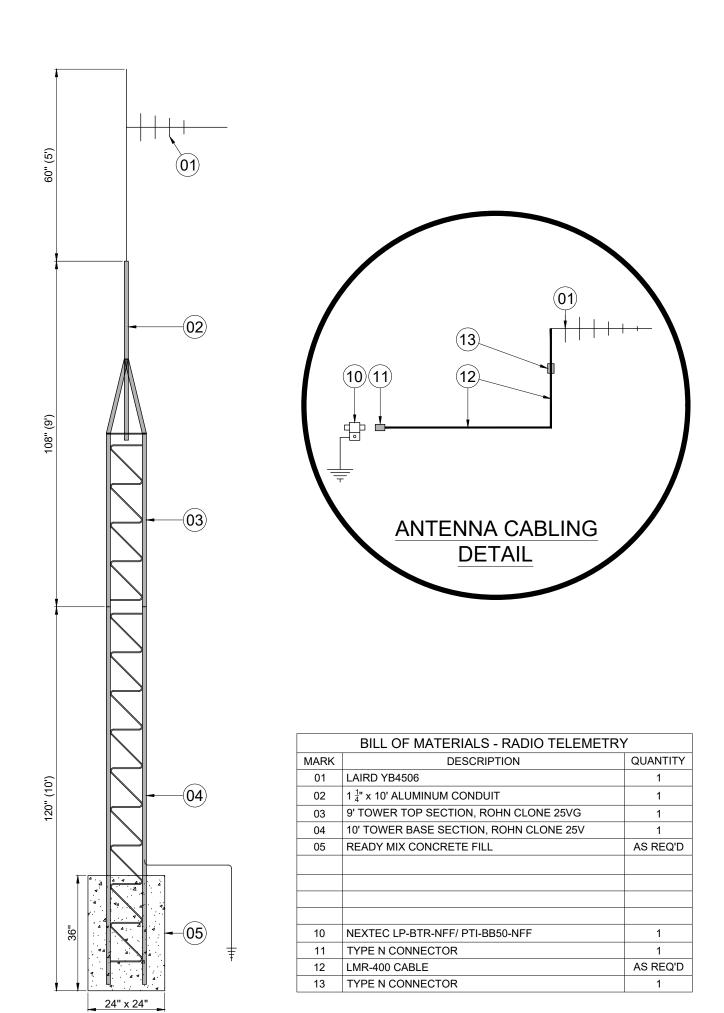
CONDUIT AND CABLE SCHEDULE	
MARK	DESCRIPTION
C/ANT	1" CONDUIT FROM MCP TO ANTENNA
C/ATS	1" CONDUIT FROM RTU TO ATS TO SHOW POSITION OF SWITCH IN EMERGENCY AND NORMAL POSITION (4) #14 THHN/THWN
C/FS1	1" CONDUIT FROM JB2 TO FLOAT SWITCH (FS1) IN WET WELL FOR HIGH WELL LEVEL INDICATION. CONDUCTOR PROVIDED WITH FLOAT.
C/GEN	1" CONDUIT FROM EMERGENCY GENERATOR TO ATS FOR GENERATOR CONTROL (4) #14 THHN/THWN (IF STATION IS NOT INITIALLY EQUIPPED WITH GENERATOR, CONDUIT IS TO BE INSTALLED AND CAPPED ONLY TO 3' FROM ATS H-POST AND NO CONDUITS ARE PULLED IN.)
C/L1	1" CONDUIT FROM WET WELL TO JB2 FOR L1 (1) #18-2 CONDUCTOR PLUS SHIELDED BELDEN #8760 VEGAPULS C23 RADAR
C/L2	1" CONDUIT FROM FUEL TANK LEVEL INDICATOR TO RTU FOR LOW FUEL LEVEL INDICATION 2/C #18 SHIELDED CABLE, BELDEN #8760 (IF STATION IS NOT INITIALLY EQUIPPED WITH GENERATOR, CONDUIT IS TO BE INSTALLED AND CAPPED ONLY TO 3' FROM ATS H-POST AND NO CONDUITS ARE PULLED IN.)
C/MGMT	1" CONDUIT FROM MCP TO JB2 FOR MAG METER
C/PXMT	1" CONDUIT FROM MCP TO JB1 TO FOR PRESSURE TRANSMITTER. IF STATION IS NOT MANIFOLDED, CONDUIT IS TO BE LEFT EMPTY AND PRESSURE TRANSMITTER IS NOT INSTALLED.
L/DBP	1" CONDUIT FROM MCP TO DIESEL BYPASS PUMP
L/GEN	1" CONDUIT FROM 2-POLE CIRCUIT BREAKER IN MCC TO EMERGENCY GENERATOR CONTROL PANEL FOR HEATER, BATTERY CHARGER, AND PUMP (3) #10 THHN/THWN AND (1) #10 GROUND (IF STATION IS NOT INITIALLY EQUIPPED WITH GENERATOR, CONDUIT IS TO BE INSTALLED AND CAPPED ONLY TO 3' FROM ATS H-POST AND NO CONDUITS ARE PULLED IN.)
P/AL	1" CONDUIT FROM MCP TO ALARM LIGHT AND 115V RECEPTACLE
P/ATS	1" CONDUIT FROM MCP TO ATS TO PROVIDE CONTROL POWER FOR ATS (2) #12 THHN/THWN
P/GEN	2" CONDUIT FROM ATS TO GENERATOR () #/ THHN/THWN AND () # THW GROUND. (IF STATION IS NOT INITIALLY EQUIPPED WITH GENERATOR, CONDUIT IS TO BE INSTALLED AND CAPPED ONLY TO 3' FROM ATS H-POST AND NO CONDUITS ARE PULLED IN.)
P/LIGHT	1" CONDUIT FROM MCP TO ANTENNA TOWER FOR LED SITE LIGHT
P/M	" CONDUIT FOR/ VAC PHASE WIRE SERVICE FROM C.O.L. TRANSFORMER OR POLE TO C.O.L. METER (M) (CONDUCTORS BY CITY ELECTRIC UTILITY)
P/MCP	2" CONDUIT FOR/ VAC PHASE WIRE SERVICE FROM MCB TO ATS AND FROM ATS TO MCP () #/_ THHN/THWN AND (1) #/_ THW GROUND.
P/P1 & P/P2	(2) 2" RIGID ALUMINUM FROM CABLE TRAY TO WET-WELL () # THHN/THWN, (1) # THW GROUND FOR MOTOR LEADS AND () # THHN/THWN FOR HEAT SENSOR, SEAL FAIL SIGNAL
S/DBP	1" CONDUIT FROM MCP TO DIESEL BYPASS PUMP
S/GEN	1" CONDUIT FROM EMERGENCY GENERATOR (GEN) CONTROL PANEL TO RTU FOR SIGNALS TO INDICATE GENERATOR RUNNING, GENERATOR OFF, ETC (8) #14 THHN/THWN (IF STATION IS NOT INITIALLY EQUIPPED WITH GENERATOR, CONDUIT IS TO BE INSTALLED AND CAPPED ONLY TO 3' FROM ATS H-POST AND NO CONDUITS ARE PULLED IN.)
SPARE P/P3	2" RIGID ALUMINUM FROM CABLE TRAY TO WET-WELL () # THHN/THWN, (1) # THW GROUND FOR MOTOR LEADS AND () # THHN/THWN FOR HEAT SENSOR, SEAL FAIL SIGNAL. CONDUIT EMPTY ON DUPLEX STATIONS.

BILL OF MATERIALS - ELECTRICAL

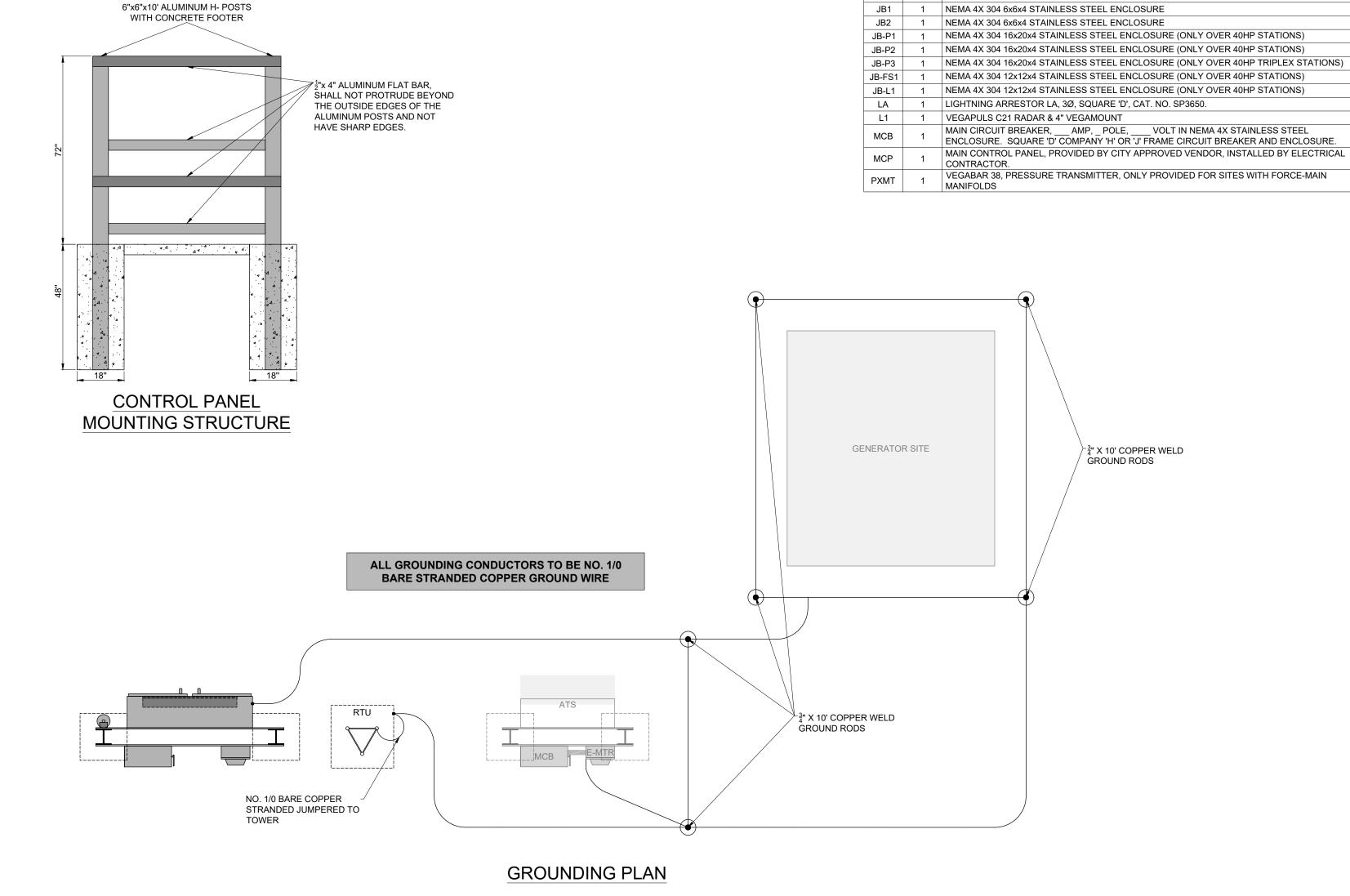
ATS 1 AUTOMATIC TRANSFER SWITCH PER SPECIFICATIONS.

GENERATOR PER SPECIFICATIONS.

FS1 1 HIGH LEVEL FLOAT SWITCH



ANTENNA TOWER



M.RIESNER DRAWING DATE: 05/16/2023 NO SCALE PUMP STATION DETAIL SPECIFICATIONS S PROJECT NUMBER: DRAWING TYPE: D5

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ENGINEER: FLORIDA P.E. LIC NO.