

NOTES:

1. AERIAL SERVICE SHALL BE COORDINATED WITH GEORGIA POWER. PROVIDE AS REQUIRED BY SELECTED PUMPS AND AVAILABLE DISTRIBUTION SYSTEM:
 - A. 480Y/277V 3-PHASE 4-WIRE
 - B. 240/120V 3-PHASE 4-WIRE DELTA
2. PROVIDE A RIGID ALUMINUM MAST TO THE TOP OF THE SERVICE POLE WITH AN ALUMINUM WEATHER-HEAD AND HEAVY DUTY RACK FOR ATTACHMENT OF THE AERIAL SERVICE DROP.
3. COORDINATE THE REQUIRED METER WITH THE GEORGIA POWER METERING DEPARTMENT. PROVIDE A SELF-CONTAINED, TRAN-SOCKET OR C.T. METER AS REQUIRED BY THE UTILITY.
4. PROVIDE RIGID ALUMINUM CONDUIT ABOVE GRADE, SCH.80 PVC BELOW GRADE. FIELD COORDINATE THE REQUIRED LOCATION OF THE ENCLOSED BREAKER/SERVICE DISCONNECT WITH GEORGIA POWER.
5. THE ENCLOSED BREAKER/SERVICE DISCONNECT SHALL BE U.L. LISTED AND LABELED FOR USE AS A SERVICE DISCONNECT; BE PROVIDED WITH AN INSULATED NEUTRAL, GROUND LUG, BONDING JUMPER AND PROVIDED IN A NEMA 3R ENCLOSURE.
6. THE SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED IN SCH.80 PVC FROM THE ENCLOSED BREAKER TO BELOW GRADE. EXTEND CONDUCTOR TO THE GROUNDING DELTA.
7. THE AUTOMATIC TRANSFER SWITCH (ATS) SHALL BE MOUNTED ON THE EQUIPMENT BACKBOARD.
 - A. WHERE AN EMERGENCY GENERATOR IS NOT INSTALLED, PROVIDE A 3-POLE/NEMA 3R MANUAL TRANSFER SWITCH.
8. FIELD COORDINATE THE LOCATION AND ORIENTATION OF THE EMERGENCY GENERATOR. PROVIDE AS SPECIFIED.
 - A. WHERE AN EMERGENCY GENERATOR IS NOT INSTALLED, PROVIDE A CROUSE-HINDS ARKTITE SERIES GENERATOR RECEPTACLE CONFIGURED FOR REVERSE SERVICE. RECEPTACLE SHALL MATCH OR EXCEED THE RATINGS OF THE SERVICE.
9. EXTEND TWO CONDUITS FROM THE ATS TO THE GENERATOR FOR CONTROL AND ANNUNCIATION OF ALARMS TO ATS. FIELD COORDINATE WITH GENERATOR VENDOR FOR ADDITIONAL CONDUITS AS REQUIRED.
10. EXTEND 1" CONDUIT WITH CONDUCTORS AS REQUIRED FOR ANNUNCIATION OF ALARMS TO THE FOLLOWING LOCATIONS:
 - A. CELLULAR ALARM PANEL
 - B. SCADA PANEL
 - C. PUMP CONTROL PANEL
11. PROVIDE STAINLESS STEEL SUPPORT BRACKET IN WET WELL AT ACCESS HATCH FOR SUPPORT OF PUMP MOTOR CABLES, FLOAT CABLES AND ULTRASONIC TRANSDUCER.
12. PROVIDE NON-METALLIC CABLE SUPPORT FOR PUMP MOTOR CABLES, FLOAT CABLES AND ULTRASONIC TRANSDUCER. FURNISH HUBBELL KELLEMS NON-CONDUCTIVE, DOUBLE WEAVE, HIGH-STRENGTH ARAMID FIBER GRIP. SECURE TO CABLE WITH TWO HEAVY DUTY ZIP TIES.
13. 2" SCH.80 PVC STUBBED INTO WET WELL FOR PUMP CABLES.
14. TWO 2" SCH.80 PVC STUBBED INTO WETWELL FOR
 - A. ULTRASONIC TRANSDUCER CABLE
 - B. FLOAT CABLES
15. PROVIDE NEMA 4X STAINLESS STEEL DISCONNECT SWITCH FOR EACH PUMP MOTOR. MOUNT ON SECONDARY BACKBOARD AT WET WELL.
16. 2" CONDUIT W/ULTRASONIC LEVEL TRANSDUCER CABLE.
17. 3/4" CONDUIT W/TWO FLOAT CABLES.
18. SURGE PROTECTIVE DEVICE. MOUNT INSIDE PANEL, LIMIT CONDUCTOR LENGTH TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE APT XDS SERIES, COORDINATE WITH SERVICE VOLTAGE. FURNISH TE-##-XDS-20-4X-A. CONNECT AUX. CONTACTS TO SCADA PANEL FOR ANNUNCIATION OF ALARM CONDITION. EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS MAY BE SUBMITTED FOR REVIEW.

LIFT STATION – ONE-LINE DIAGRAM
(CONTINUED ON S23A & S23C)

STANDARD
CONSTRUCTION
DETAILS



SCALE: N.T.S.
DATED: JAN 2017
PLATE NUMBER: S23B