

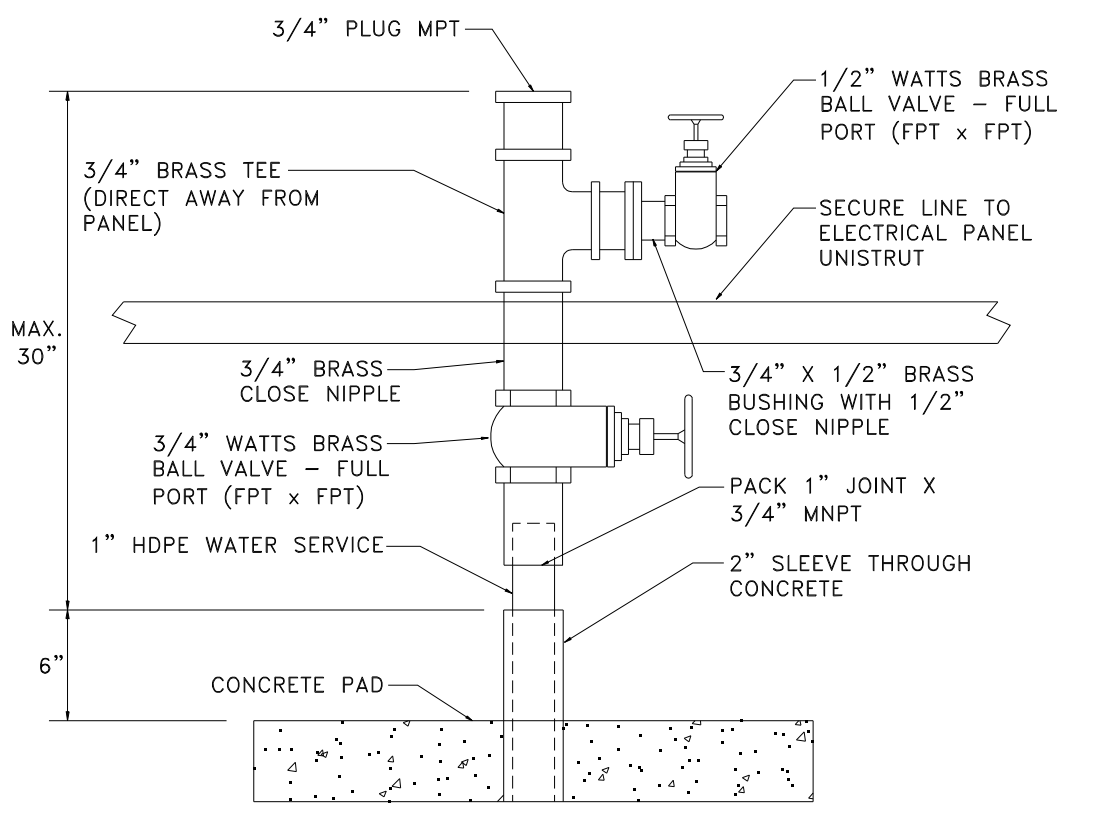
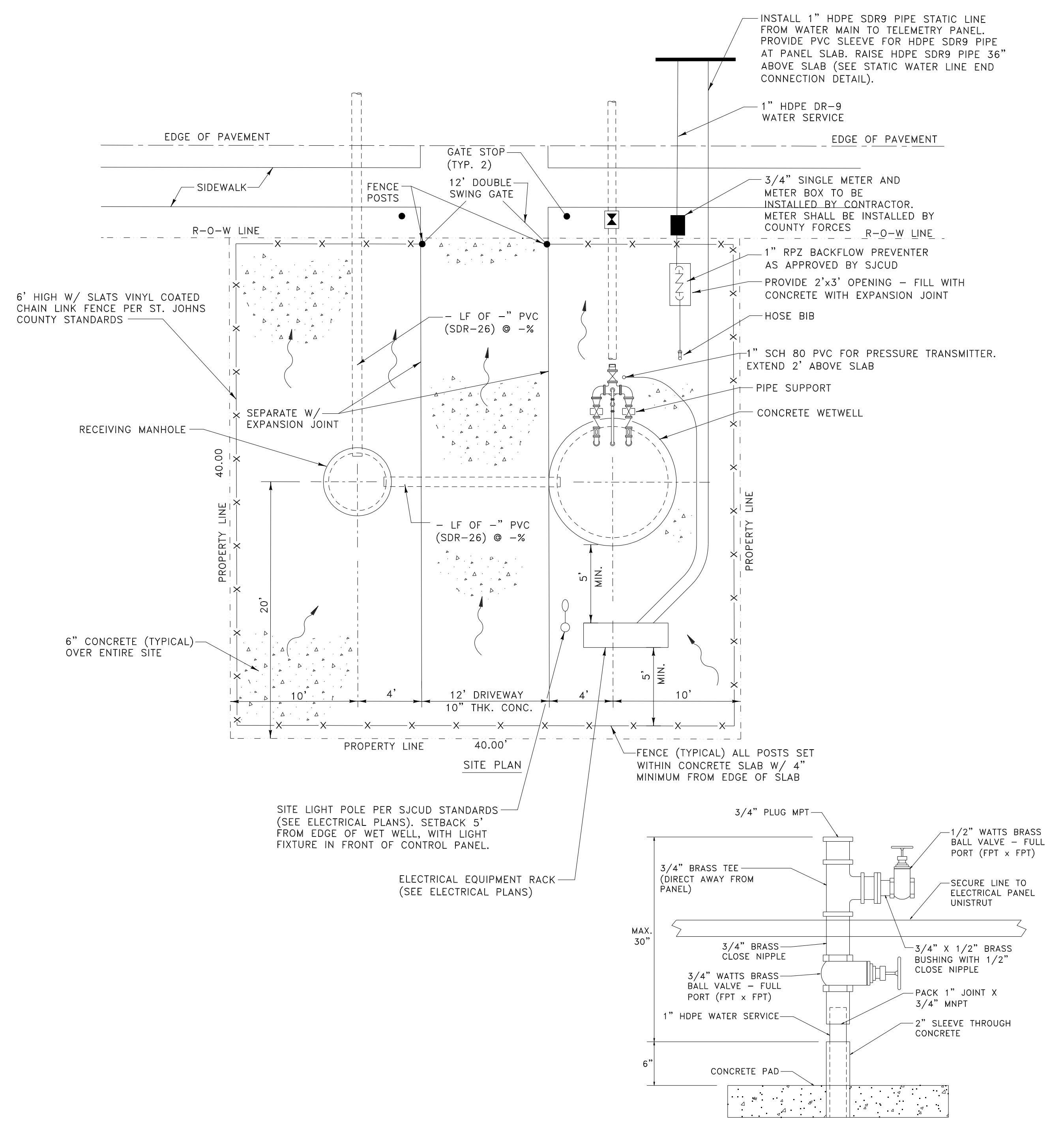
LIFT STATION	
STATION ELEVATIONS	
(A) TOP ELEVATION	
(B) GRADE ELEVATION	
(C) INFLUENT INVERT	
(D) HIGH WATER ALARM	
(E) LAG PUMP ON (NO. 2)	
(F) LEAD PUMP ON (NO.1)	
(G) ALL PUMPS OFF	
(H) BOTTOM OF WET WELL	

STATION INFORMATION	
(1) PUMP DISCHARGE PIPING SIZE	2"
(J) FORCE MAIN PIPING SIZE	4"
(K) TOP SLAB THICKNESS (MIN)	8"
(L) SIDE WALL THICKNESS (MIN)	6"
(M) BOTTOM SLAB THICKNESS	12"
(N) BOTTOM SLAB DIAMETER (MIN)	7'
(P) WET WELL DIAMETER	5' DIA. MIN.
(Q) EMERGENCY SUCTION PIPING SIZE	4"

PUMP INFORMATION	
NUMBER OF PUMPS	2
PUMP MANUFACTURER	(10)
PUMP MODEL	(10)
IMPELLER ID	
DISCHARGE	1 1/4" MOTOR RPM
HP	VOLTS 3 PHASE - HZ
MANIFOLD COND.	GPM AT FT.TOH
RUN-OUT COND.	GPM AT FT.TOH
PUMP ACCESS HATCH SIZE	x
ELECTRICAL SERVICE AMPS	(100 or 200)

MECHANICAL EQUIPMENT SCHEDULE	
1	CHECK VALVE, FLAPPER TYPE, FULL PORT, THREADED BRASS; INSTALLED IN VERTICAL POSITION
2	PLUG VALVE, CAST SS, FULL PORT
2A	CONTRACTOR TO INSTALL: (2)-1" STAINLESS STEEL BALL VALVES (2)-1"x1" STAINLESS STEEL TEE (2)-1" PLUG
3	STAINLESS STEEL TEE
4	STAINLESS STEEL SHORT RADIUS 90° BEND
5	STAINLESS STEEL 45° BEND
6	316 STAINLESS STEEL PIPE (SCH 40)
7	1/4" SS BRAIDED WIRE CABLE WITH 18" OF CHAIN
8	INFLUENT PIPE (SEE PLANS)
9	CONCRETE WETWELL
10	FLYGT PUMP (AS APPROVED BY ST. JOHNS COUNTY UTILITY DEPARTMENT) GRINDER, 2"
11	ALUMINUM WETWELL ACCESS COVER (OPENING PER PUMP MANUFACTURER)
12	STAINLESS STEEL GUIDE RAILS
13	FLOATS AND PUMP CONTROLS PROVIDED BY PUMP MANUFACTURER AS SPECIFIED IN ELECTRICAL DETAILS
14	PUMP MOTOR CABLE
15	PASSIVE ODOR NEUTRALIZATION DEVICE
16	STAINLESS STEEL CABLE HOLDER
17	1" STAINLESS BLOW OFF LINE TO WETWELL-SECURE LINE TO WETWELL SLAB WITH UNISTRUT WITH UNIONS

- NOTES:**
- ACCESS COVER FOR THE WETWELL SHALL BE 1/4" ALUM. TREAD PLATE WITH STAINLESS STEEL HARDWARE, COVER SHALL BE PROVIDED WITH LIFTING HANDLE, LOCKING HASP AND SAFETY LATCH TO HOLD COVERS OPEN. OPENING IN WETWELL SLAB AS PER MANUFACTURER'S SPECIFICATIONS.
 - ALL CONCRETE SHALL BE 6" THICK AND REINFORCED WITH 6 X 6 10/10 WWM EXCEPT THE DRIVEWAY WHICH SHALL BE 10" THICK.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRECAST WETWELL. SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY STRUCTURAL AND FLOTATION CALCULATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ELECTRICAL POWER TO THE PUMPING STATION. THREE PHASE POWER IS REQUIRED. THIS WORK IS TO BE COORDINATED WITH FLORIDA POWER AND LIGHT.
 - THE INTERIOR OF THE WET WELL AND RECEIVING MANHOLE SHALL BE COATED WITH LINER BY APPROVED MANUFACTURER.
 - A LIGHTNING ARRESTER SHALL BE SUPPLIED AND INSTALLED BY THE "SYSTEM" SUPPLIER.
 - A SURGE SUPPRESSOR SHALL BE SUPPLIED AND INSTALLED BY THE "SYSTEM" SUPPLIER.
 - AN AUDIBLE ALARM SHALL BE SUPPLIED AND INSTALLED BY THE "SYSTEM" SUPPLIER.
 - THE SURFACE OF THE WET WELL SHALL FIRST BE PREPARED BY GROUTING THE WET WELL AS REQUIRED TO OBTAIN A SMOOTH SURFACE. THE COATING SHALL BE WARRANTED FOR A MINIMUM OF 10 YEARS FOR MATERIAL AND WORKMANSHIP.
 - ONLY PIPING INTO THE BASE ELBOW SMALLER THAN 2" CAN BE THREADED.
 - RPZ BACKFLOW PREVENTER PIPING ABOVE GRADE SHALL BE THREADED BRASS WITH BRASS OR STAINLESS STEEL FITTINGS AND VALVES.



NO.	BY	DATE	SYMBOL	REVISIONS
6.				
5.				
4.				
3.	ETS	2019		REVISION 6
2.	ETS	2017		REVISION 4 & 5
1.	ETS	2016		REVISION 2 & 3

DESIGNER:	DESIGN ENGINEER:
DRAWN BY:	FLORIDA REGISTRATION NO.:
CHECKED BY:	
DATE:	

ST. JOHNS COUNTY UTILITY DEPARTMENT
 1205 STATE ROAD 16
 ST AUGUSTINE, FLORIDA 32084-8646
 Phone (904) 209-2700 • Fax. (904) 209-2702

2" PUMP STATION STANDARD DETAIL
 SCALE: N.T.S.

NO. SHEETS
SHEET NO.
PS-2
DRAWING NO.
PS-2.dwg