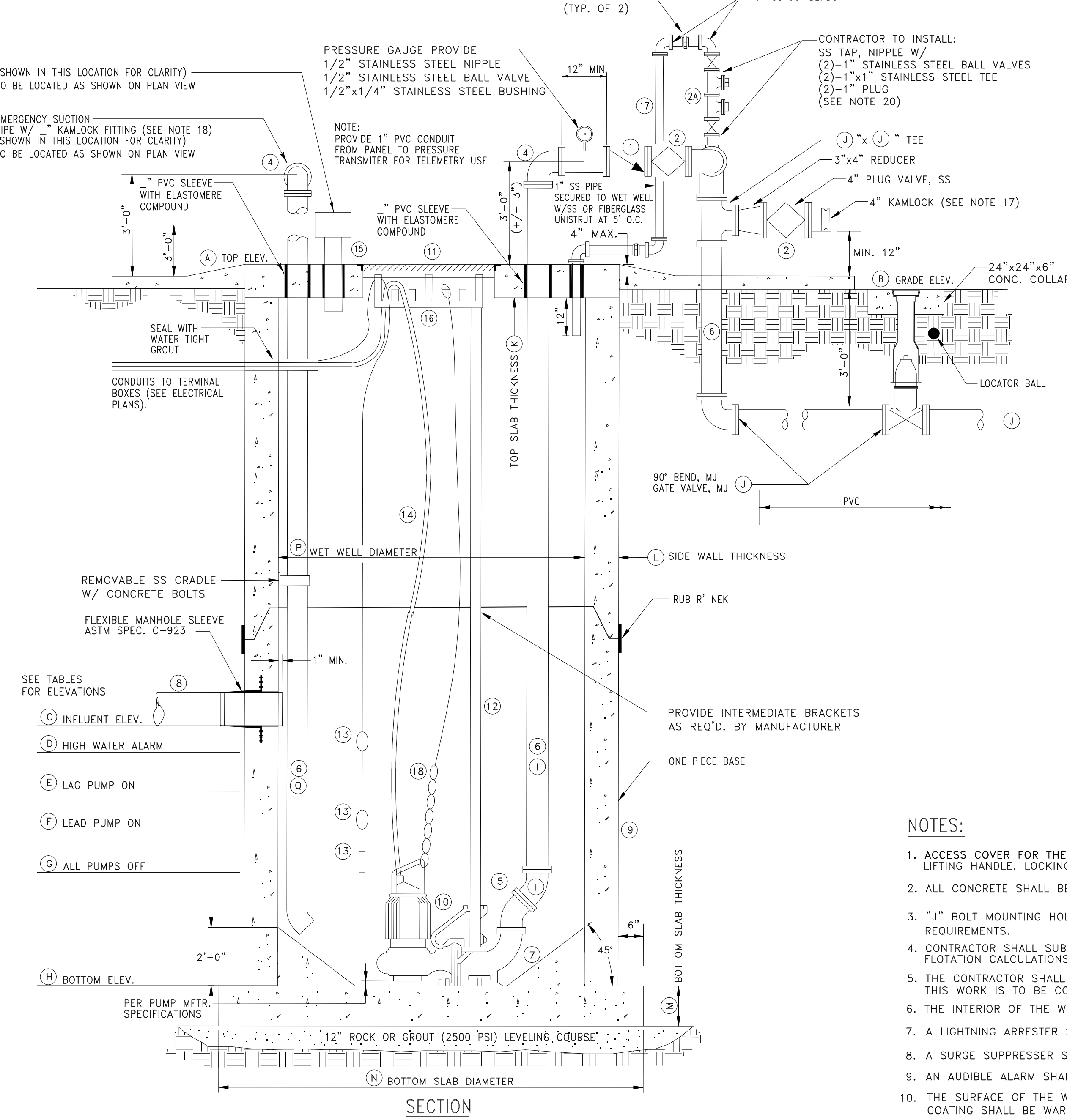


PLAN



SECTION

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	

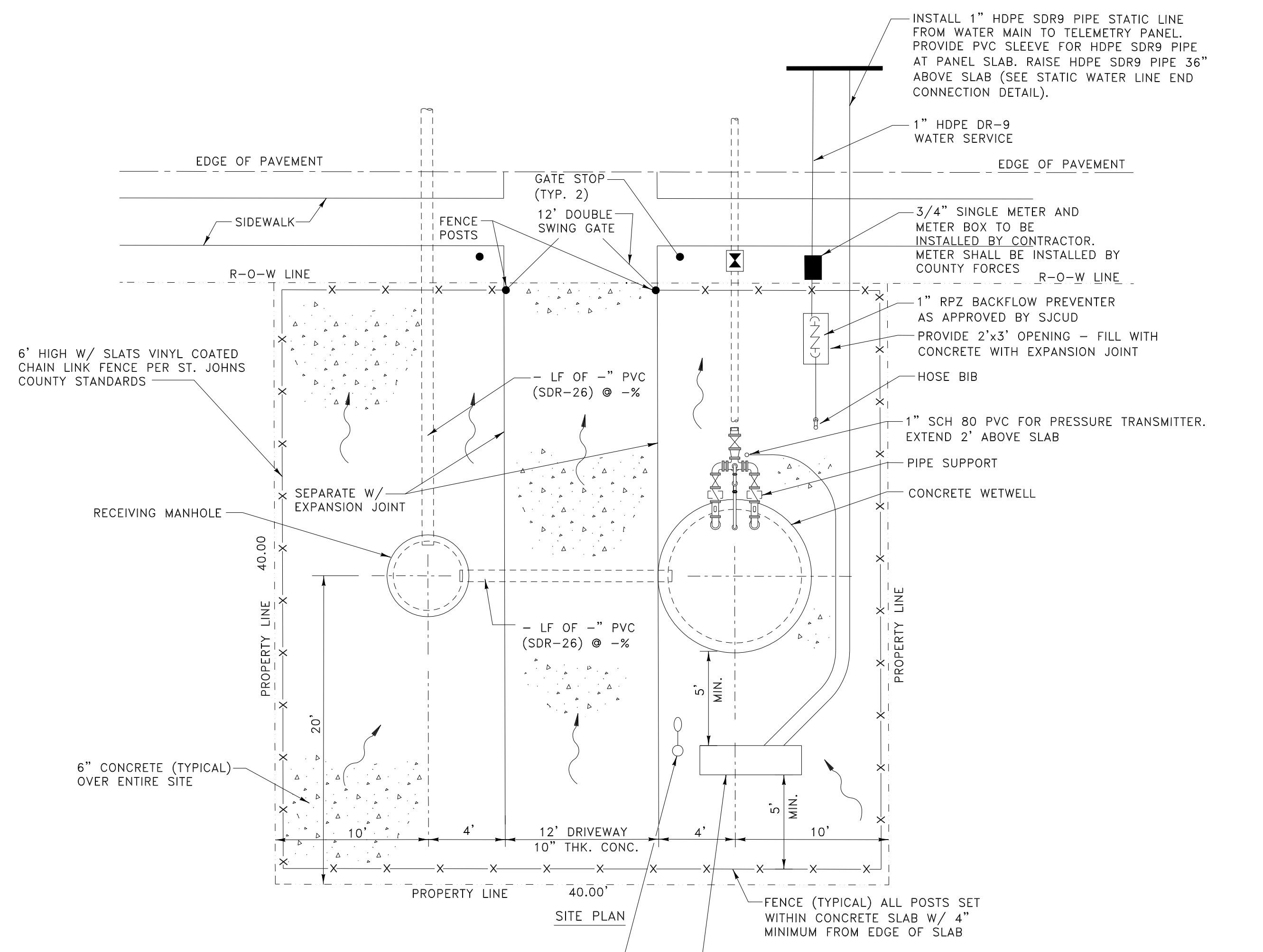
STATION INFORMATION	
(1) PUMP DISCHARGE PIPING SIZE	3"
(J) FORCE MAIN PIPING SIZE	3"
(K) TOP SLAB THICKNESS (MIN)	8"
(L) SIDE WALL THICKNESS (MIN)	8"
(M) BOTTOM SLAB THICKNESS	12"
(N) BOTTOM SLAB DIAMETER (MIN)	8'-4"
(P) WET WELL DIAMETER	6" DIA. MIN.
(Q) EMERGENCY SUCTION PIPING SIZE	4"

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

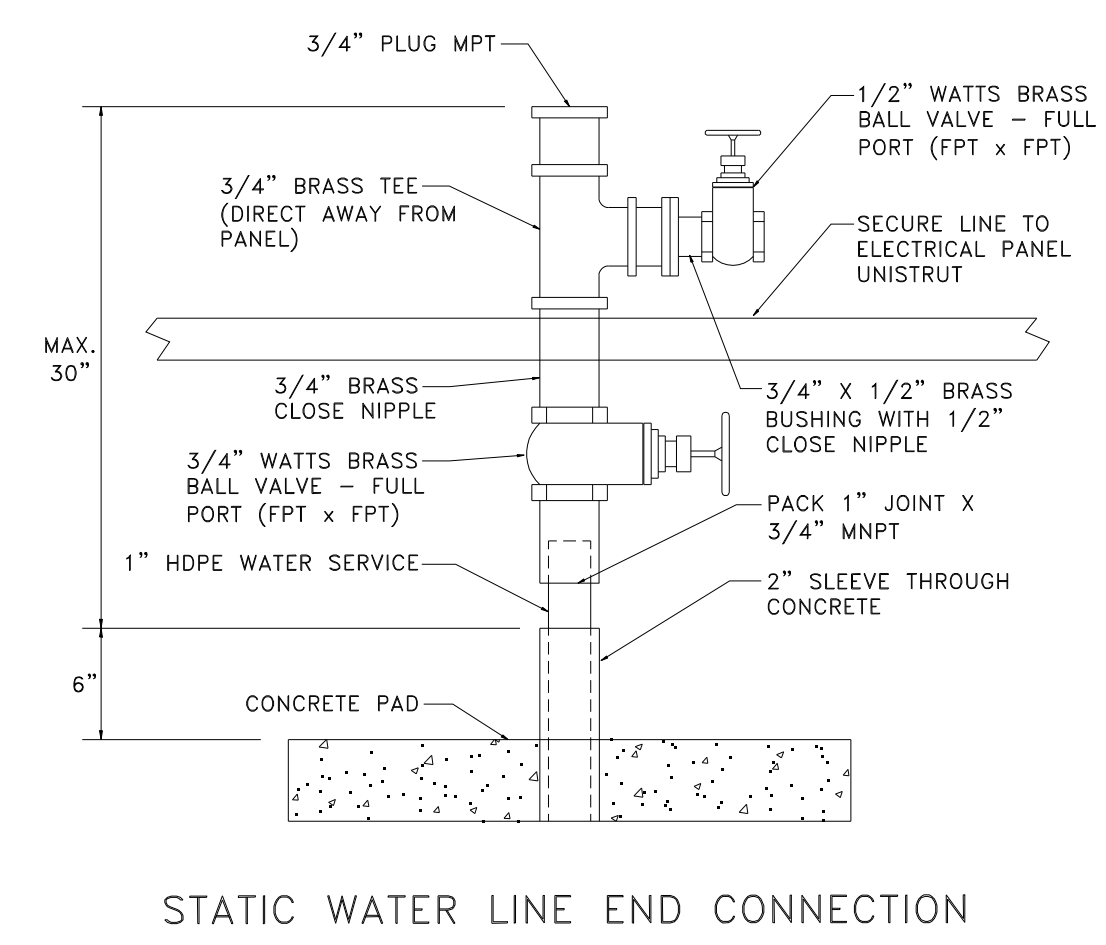
MECHANICAL EQUIPMENT SCHEDULE	
1	CHECK VALVE, SWING-TYPE LEVER FACING OUTSIDE, LEVER AND SPRING OPERATED, IRON BODY, BRONZE MOUNTED
2	PLUG VALVE, CAST IRON BODY, LEVER ACTUATED
2A	CONTRACTOR TO INSTALL: (2)-1" STAINLESS STEEL BALL VALVES (2)-1"x1" STAINLESS STEEL TEE (2)-1" PLUG
3	STAINLESS STEEL TEE
4	STAINLESS STEEL SHORT RADIUS 90° BEND
5	STAINLESS STEEL 45° BEND
6	316 STAINLESS STEEL PIPE (SCH 40)
7	DUCTILE IRON PUMP BASE
8	INFLUENT PIPE (SEE PLANS)
9	CONCRETE WETWELL
10	FLYGT PUMP (AS APPROVED BY ST. JOHNS COUNTY UTILITY DEPARTMENT) NON-CLOG SUBMERSIBLE, 3"
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 W/ UNISTRUT WITH UNIONS
18	1/4" STAINLESS STEEL WITH 18" OF CHAIN LINKS

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 MANUFACTURERS SPECIFICATIONS.
- ALL CONCRETE SHALL BE 6" THICK AND REINFORCED WITH 6 X 6 10/10 WWM EXCEPT DRIVEWAY WHICH SHALL BE 10" THICK.
- "J" BOLT MOUNTING HOLE AND CONDUIT HOLES SHALL BE CORE DRILLED IN THE FIELD AS PER SHOP DRAWINGS OR ACTUAL FIELD REQUIREMENTS.
- 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.
- PLUG VALVE OPERATOR SHALL BE MOUNTED PARALLEL TO GROUND AND FACE OUTWARD.



SITE PLAN



STATIC WATER LINE END CONNECTION

- PLUG VALVE SEAT SHALL BE INSTALLED ADJACENT TO CHECK VALVE REGARDLESS OF FLOW ARROW ON VALVE.
- RPZ BACKFLOW PREVENTER PIPING ABOVE GRADE SHALL BE THREADED BRASS WITH BRASS OR STAINLESS STEEL FITTINGS AND VALVES.
- SITE GRADING SHALL PROVIDE FOR DRAINAGE OF WATER TO THE DRIVEWAY SIDE OF SITE.
- SIZES SHOWN IN "STATION INFORMATION" ABOVE ARE MINIMUMS AND MAY NEED TO BE LARGER BASED ON SPECIFIC SITE DESIGN.
- ALL NON-STAINLESS STEEL PIPING AND FITTINGS SHOULD BE PAINTED FOREST GREEN (OIL BASED).
- ONE STAINLESS STEEL SUPPORT SHALL BE INSTALLED UNDER EACH PLUG VALVE.
- ALL PIPE SHALL BE FLANGED.
- ALL STAINLESS STEEL PIPING SHOULD BE SCHEDULE 40.
- ROTATE THE PRESSURE TRANSMITTER MOUNTING TEE SUCH THAT THE FUTURE WIKA PRESSURE TRANSMITTER DISPLAY FACES NORTH. (BY SJCUD).
- ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL INCLUDING, BUT NOT LIMITED TO, NUTS, BOLTS, BRACKETS.

P:\6334\SJC STD DETAILS\PS-3 09/13/06 14:26 SmithDR XSEES XBRDRG_1

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: DRAWN BY: DATE: CHECKED BY: DATE:	DESIGN ENGINEER: FLORIDA REGISTRATION NO.:
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ST. JOHNS COUNTY UTILITY DEPARTMENT
 1205 STATE ROAD 16
 ST AUGUSTINE, FLORIDA 32084-8646
 Phone (904) 209-2700 • Fax. (904) 209-2702

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

NO. SHEETS
SHEET NO. PS-3
DRAWING NO. PS-3.dwg