

**PUMP INFORMATION**

NUMBER OF PUMPS 2

PUMP MANUFACTURER \_\_\_\_\_

PUMP MODEL \_\_\_\_\_ IMPELLER ID \_\_\_\_\_

DISCHARGE \_\_\_\_\_ MOTOR RPM \_\_\_\_\_

HP \_\_\_\_\_ VOLTS 3 PHASE 60 HZ

MANIFOLD COND. \_\_\_\_\_ GPM AT \_\_\_\_\_ FT.DH

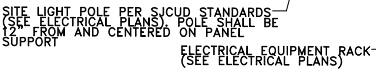
RUN-OUT COND. \_\_\_\_\_ GPM AT \_\_\_\_\_ FT.DH

PUMP ACCESSORY HATCH SIZE \_\_\_\_\_ x \_\_\_\_\_

(MUST ACCOMMODATE MIX-FLUSH VALVE IF PRESENT)

ELECTRICAL SERVICE AMPS (100 or 200) \_\_\_\_\_

2. 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.
3. CONCRETE SHALL BE TYPE I OR TYPE II, 3,000 PSI, USE WITH PLASTICIZER, HAVE A 4"- 6" SLUMP, HAVE 2-4% AIR ENTRAINMENT, WATER TO CEMENT RATIO OF 0.43-0.45, AND BE REINFORCED USING 1 LB/CY OF A MACRO SYNTHETIC FIBER SUCH AS SIKAFIBERMESH 650, EUCLID TUF-STRAND S1, FORTA FERRO, OR PRE-APPROVED EQUAL. CONCRETE DELIVERY TICKETS SHALL BE PROVIDED TO THE SJCD INSPECTOR. CONCRETE SLAB SHALL BE 6" THICK, EXCEPT IN THE DRIVEWAY PORTION WHERE IT SHALL BE 10" THICK.
4. "J" BOLT MOUNTING HOLE AND CONDUIT HOLES SHALL BE CORE DRILLED IN THE FIELD AS PER SHOP DRAWINGS OR ACTUAL FIELD REQUIREMENTS.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRECAST WETWELL. SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY STRUCTURAL AND FLOTATION CALCULATIONS.
6. 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 ELECTRIC PROVIDER.
7. THE INTERIOR OF THE WET WELL AND RECEIVING MANHOLE SHALL BE COATED WITH LINER BY APPROVED MANUFACTURER.
8. A LIGHTNING ARRESTER, SURGE SUPPRESSOR, AND AUDIBLE ALARM SHALL BE SUPPLIED AND INSTALLED BY THE "SYSTEM" SUPPLIER.
9. 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 ACCORDING TO SECTION 3.15.
10. PLUG VALVE OPERATOR SHALL BE MOUNTED PARALLEL TO GROUND AND FACE OUTWARD. WHEN OPEN, PLUG SHALL BE IN THE TOP OF THE VALVE BODY.
11. RPZ BACKFLOW PREVENTER PIPING ABOVE GRADE SHALL BE THREADED BRASS WITH BRASS OR STAINLESS STEEL FITTINGS AND VALVES.
12. SITE GRADING SHALL PROVIDE FOR DRAINAGE OF WATER TO THE DRIVEWAY AND TO THE STREET.
13. SIZES SHOWN IN "STATION INFORMATION" ABOVE ARE MINIMUMS AND MAY NEED TO BE LARGER BASED ON SPECIFIC SITE DESIGN.
14. ALL NON-STAINLESS STEEL PIPING AND FITTINGS SHOULD BE PAINTED FOREST GREEN (OIL BASED).
15. ONE 2" 316SS SUPPORT SHALL BE INSTALLED UNDER EACH PLUG VALVE. (3 TOTAL)
16. ALL PIPE FLANGES SHALL BE ANSI CLASS 16.5. FLANGES TO BE 316SS 150# RAISED FACED SLIP FLANGES WITH FULL FACE CIRCLE GASKETS.
17. ALL 316SS PIPING SHALL BE SCHEDULE 40.
18. ROTATE THE PRESSURE TRANSMITTER MOUNTING TEE (BOTTOM TEE) SUCH THAT THE FUTURE PRESSURE TRANSMITTER DISPLAY INSTALLED BY SJCD FACES NORTH.
19. ALL MOUNTING HARDWARE SHALL BE 316 STAINLESS STEEL INCLUDING, BUT NOT LIMITED TO, NUTS, BOLTS, BRACKETS. ALL HARDWARE SHALL BE HAND-TIGHTENED AND HAVE ANTI-SIZEE COMPOUND APPLIED. DO NOT USE IMPACT WRENCHES.
20. IF PUMP DISCHARGE PIPING IS 3", A 3"x 4" REDUCER IS REQUIRED, OTHERWISE, TEE SHALL BE 4".



NO.	BY	DATE	SYMBOL	REVISIONS	DESIGNER:	DESIGN ENGINEER	 <div>ST. JOHNS COUNTY UTILITY DEPARTMENT</div> <div>1205 STATE ROAD 16 ST. AUGUSTINE, FLORIDA 32084-8646 Phone (904) 209-2700 • Fax (904) 209-2702</div>	<div>PUMP STATION STANDARD DETAIL</div> <div>SCALE: N.T.S.</div>	NO. SHEETS
6.					DRAWN BY:	FLORIDA REGISTRATION NO.			SHEET NO.
5.	SJCU	2025		REVISION 5					
4.	SJCU	2025		REVISION 4					
3.	SJCU	2025		REVISION 3					
					CHECKED BY:			DRAWING NO.	
2.	SJCU	2025		REVISION 2				PS-01	
1.	SJCU	2020		REVISION 1					