

PUMP STATION GENERAL NOTES

1. Contractor shall take necessary precautions against floatation of wet well until all back fill is in place.
2. All concrete shall be class A-A (4,000 PSI for precast and 3,000 PSI for cast-in-place) unless otherwise specified.
3. Reinforcing steel shall be grade 60 fabricated and placed in accordance with ACI code splices and shall be six (6) times the bar diameter number size or 18" minimum unless otherwise noted (STAG. SPL., TYP).
4. All backfill around the pump station site shall be compacted @ 98% density, per T-180.
5. Chamfer exposed concrete edges 3/4" (TYP).
6. Wet well wall shall contain a minimum of .022 sq in/linear foot reinforcement, each way top to bottom.
7. All piping at the pump station site shall be restrained.
8. All Pumps and Pumping Equipment - See IRCDUS approved manufacturers' product list.
9. Stainless steel cable holder shall be located on opposite side of wet well from the influent pipe.
10. Bouyancy calculations shall be required for all pump stations along with the required pump station calculations.
11. No uni-flange pipe connections allowed.
12. Maintain minimum of 6" between any piping, fittings etc. and precast concrete.
13. Fiberglass liners shall be installed on all manholes receiving pumped sewage, plus 5 manholes in each direction.
14. Pump station control panel shall be provided with appropriate lightning arrestor. Verify all driven grounds per N.E.C.
15. An access drive shall be provided to all IRCDUS maintained lift stations. All access drives shall be a minimum of 12' wide. If fence is installed, gate shall have a 12' opening.
16. All proposed private station owners are to sign an agreement acknowledging station is to remain private unless subject station is constructed to IRCDUS standards.
17. Pumps shall be designed to provide a minimum pump run time equal to half the cycle time.
18. Pumps shall be designed to provide a maximum clearance of ten feet outside of lift station wet well for future maintenance.
19. All re-pump stations shall have bio-cube odor control systems as required by manufacturer, and approved by IRCDUS.
20. Lift Station is to be located in a dedicated utility easement, 200' away from homes, cul de sacs and surface body water.
21. A safety grate with stainless steel hardware is required for all wetwells
22. Contractor to install permanent signage with contact information and phone number at all IRCDUS and private lift stations. Contractor to provide security for private lift stations per IRCDUS plans review. Security to include, but not limited to, lockable hatch cover lids for the wet well and valve pit.

FLOAT CONTROL SYSTEM

PUMPING STATION DATA TABLE			
LIFT STATION NUMBER			
PRIMARY CONDITION	PUMPING CAPACITY	G.P.M.	00
	TOTAL HEAD (±)	FEET	00
	EFFICIENCY	%	00%
INTER-MEDIATE CONDITION	PUMPING CAPACITY	G.P.M.	--
	TOTAL HEAD	FEET	--
	EFFICIENCY	%	--
SECONDARY CONDITION	PUMPING CAPACITY	G.P.M.	--
	TOTAL HEAD (*)	FEET	--
	EFFICIENCY	%	--
MIN. SOLIDS PASS. IMPELLER		INCHES	0"
PUMP MODEL NUMBER		NO.	0000-0-0"
PUMP IMPELLER		INCHES	XX-00
PUMP SPEED (DESIGN)		R.P.M.	0000
MOTOR NAMEPLATE H.P.		H.P.	0
MAX. PUMP BRAKE H.P.		H.P.	± 0.0
MAX. NPSHR @ SECONDARY		FEET	--
MAX. MOTOR SPEED		R.P.M.	0000
INITIAL INFLUENT FLOW RATE PEAK		G.P.M.	00
MIN. PUMP CYCLE TIME		MINS.	00
ALARM SIGNAL ON ELEV.		ELEV.'A'	0.00
INFLUENT PIPE INV. ELEV.		ELEV.'B'	0.00
LAG PUMP ON ELEV.		ELEV.'C'	0.00
LEAD PUMP ON ELEV. (+)		ELEV.'D'	0.00
PUMPS OFF ELEVATION		ELEV.'E'	0.00
ALARM SIGNAL ON ELEV.		ELEV.'F'	--
BOTTOM OF WET WELL		ELEV.'G'	(<-)0.00
PUMP MANUFACTURER			XX0
(*) PUMP WILL OPERATE BETWEEN PRIMARY AND SECONDARY POINTS.			

THE LIFT STATION WET WELL SHALL CONFORM TO THE FOLLOWING SIZE:

WETWELL DIMENSIONS	
DEPTH (ft)	DIAMETER (ft)
0-10	6
11-15	8
16-20	10
21-25	12

OR AS APPROVED BY IRCDUS ENGINEER.

ALL HARDWARE TO BE STAINLESS STEEL 304

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITIES SERVICES



TYPICAL PUMPING STATION
(DATA TABLE & NOTES)

DRAWING
NO.

S-16

MARCH 2014

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