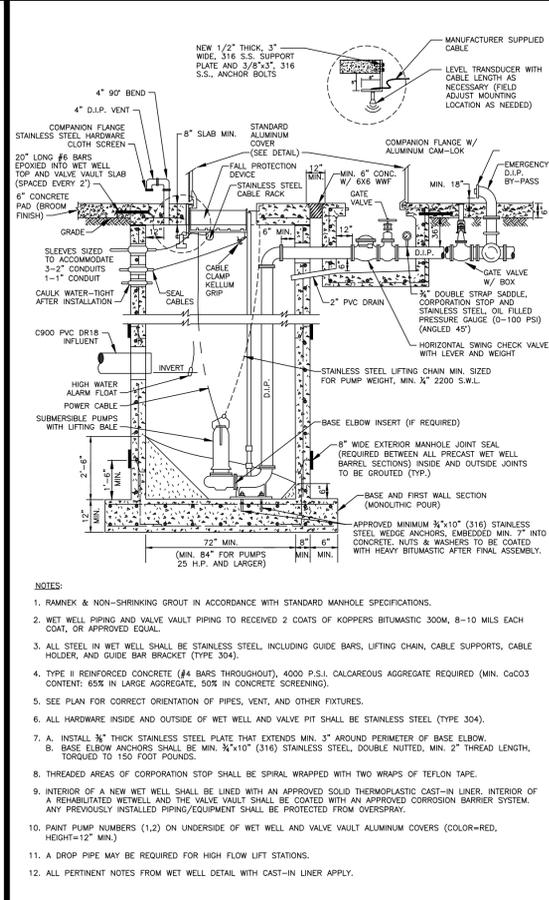


TYPICAL LIFT STATION SITE PLAN DETAIL 47S

NOTES:

- ENGINEER SHALL DESIGN SITE PLAN USING THE "TYPICAL LIFT STATION SITE PLAN DETAIL". SITE PLAN LOCATION DETAIL SHALL BE DRAWN TO SCALE NOT SMALLER THAN 1"=10' WITH:
 - NORTH ARROW, STREET NAME.
 - FENCE WITH 2'-6" WIDE GATES.
 - INFLUENT LINE ENTRY LOCATION WITH MANHOLE AND GRAVITY MAIN DATA.
 - HINGE LOCATION (HINGES FOR WET WELL COVER MUST BE LOCATED ON THE CONTROL PANEL SIDE; HINGED FOR VALVE VAULT COVER SHALL BE LOCATED ON DISCHARGE SIDE OF FORCE MAIN).
 - POWER SERVICE FEED (WITH "AS BUILT"), MAXIMUM LENGTH OF ELECTRICAL SERVICE FROM THE TRANSFORMER TO MANHOLE TO CONTROL PANEL SHALL BE 50 FEET.
 - EMERGENCY PUMP OUT LOCATION (SHALL BE SAME SIZE AS PUMP DISCHARGE).
- THE STATION SHALL BE POSITIONED SO THE FRONT OF CONTROL PANEL DOES NOT FACE WEST OR SOUTH (NORTH AND EAST ARE PREFERRED).
- HORIZONTAL DISTANCE FROM PANEL FRONT TO WET WELL OPENING SHALL BE: DISTANCE OF CONTROL PANEL PLUS 6".
- DESIGN TO BE COORDINATED WITH "TYPICAL LIFT STATION PLAN DETAIL".
- FENCED AREA TO BE COVERED WITH 2 PLY 40 MIL VULCANIZING AND A 6" CONCRETE PAD WITH #9 WIRE MESH (6" x 6") - BROOM FINISH REQUIRED. CONCRETE PAD TO EXTEND 12" BEYOND FENCED AREA.
- INFLUENT MAIN SHALL BE CLEAR OF VAULT.
- LANDSCAPE AREA ADJACENT TO LIFT STATION SITE MAY BE LANDSCAPED SUBJECT TO PRIOR APPROVAL BY THE DEPARTMENT. ONLY HEDGES WITH NON-AGGRESSIVE ROOT SYSTEM WILL BE APPROVED. MIN. 5' FROM CONCRETE PAD TO BUSHES, MIN. 5' FROM DRIVEWAY TO BUSHES, MIN. 10' FROM DRIVEWAY TO ANY TREES. (SUBJECT TO PRE-APPROVAL BY P.B.C.W.U.D.) IS REQUIRED. THE DEVELOPER/SUCCESSOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE LANDSCAPING. APPROVED BUSHES ARE: EUGENIA, SURINAM CHERRY, MAX MURTEL, SIMPSON STOPPER, SOUTHERN RED CEDAR. WOODEN FENCES ARE NOT ACCEPTABLE.
- A PLATED LIFT STATION EASEMENT OR EXCLUSIVE PALM BEACH COUNTY UTILITY EASEMENT TO COVER AREA MIN. 5' BEYOND LIFT STATION CONCRETE PAD. THE ELECTRIC POWER SERVICE FEED TO THE CONTROL PANEL SHALL BE LOCATED WITHIN AN UTILITY EASEMENT.
- ALL EXPOSED (NOT BURIED) JOINTS SHALL BE FLANGED, BURIED JOINTS SHALL BE MECHANICAL JOINT TYPE WITH MEGALUGS OR EQUAL.
- VALVE VAULT DIMENSIONS (INSIDE):
 - 4" PIPING: 4'(L) X 6'(W) X 4'(D)
 - 6" PIPING: 5'(L) X 7'(W) X 4'(D)
- MINIMUM TWO GROUNDING RODS SHALL BE MIN. 6' APART AND SHALL BE RECESSED THROUGH 6" PVC SLEEVES IN CONCRETE SLAB. THE RODS SHALL BE CONNECTED WITH A MIN. #6 SOLID COPPER GROUNDING WIRE IN A 3/2" CONDUIT.
- WETWELL VENT PIPE SHALL BE INSTALLED SO NOT TO INTERFERE WITH ACCESS TO THE WETWELL. (OPPOSITE OF GATE IS PREFERRED).

TYPICAL LIFT STATION SITE PLAN NOTES 48S

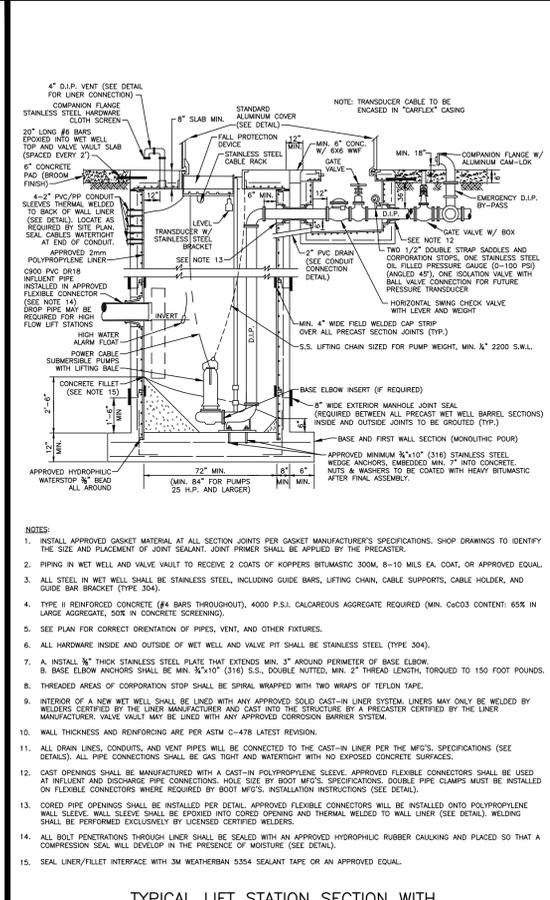


TYPICAL LIFT STATION SECTION 81S

INSTALLATION NOTES

- PANEL, METER, JUNCTION BOX AND 120 VOLT TRANSFORMER ARE TO BE MOUNTED ON STAINLESS STEEL STRUTS, WITH STAINLESS STEEL FASTENING DEVICES, AND SHALL BE SUPPORTED BY MINIMUM OF THREE POSTS. MIN. FOUR (4) INCH DIAMETER PIPE OR MIN. FOUR (4) INCH SQUARE TUBE (ALUMINUM OR STAINLESS STEEL) CAPPED AT THE TOP. PAINT BELOW GRADE SUPPORTS WITH ASPHALTUM PAINT TO FOUR (4) INCHES ABOVE GRADE.
- PANEL SHALL BE AT 42 INCHES FROM THE WET WELL OPENING MEASURED FROM THE FRONT OF THE PANEL UNLESS OTHERWISE SHOWN IN THE DRAWINGS. FRONT OF CONTROL PANEL SHALL FACE TO THE WET WELL.
- RADIO TO MATCH PALM BEACH COUNTY'S SYSTEM INCLUDING RUN THE TRANSMITTAL. LIVE TEST OF THE TELEMETRY SYSTEM MUST BE DONE AND APPROVED AT THE PUMP STATION START-UP. ANTENNA AND CABLE SHALL BE PART OF THE RADIO SYSTEM. ANTENNA SHALL BE SEPARATELY GROUND TO THE GROUND ROD OF THE STATION.
- FABRICATE ANTENNA FROM 21 FEET LENGTH OF 2" DIAMETER SCHEDULE 40 GALVANIZED STEEL CONTINUOUS PIPE. PAINT LOWER 42 INCHES WITH ASPHALTUM PAINT, CAP THE TOP OF PIPE.
- RUN (1) INCH RIGID GALVANIZED CONDUIT UP THE MAST FOR THE ANTENNA CABLE TO WITHIN 16 INCHES OF THE TOP. RUN SECOND 3/4 INCH CONDUIT UP THE MAST FOR ALARM AND FLOOD LIGHTS AS SHOWN. RUN THIRD 3/4 INCH CONDUIT UP THE MAST FOR SOLAR PANEL. USE STAINLESS STEEL UNISTRUT AND CLAMPS TO HOLD CONDUITS TO THE MAST.
- MOUNT FLOOD LIGHT AND FLASHING RED LIGHT ON THE ANTENNA MAST AT NINE (9) FEET AND EIGHT (8) FEET ABOVE GRADE.
- CONDUIT TO THE POWER COMPANY SERVICE POINT SHALL BE RIGID GALVANIZED WITH ASPHALTUM PAINT ON ALL FITTINGS AND ON ALL RISERS TO 12 INCHES ABOVE GRADE. CONDUIT FROM SERVICE ENTRANCE FUSED DISCONNECT SWITCH TO THE PANEL SHALL BE RIGID GALVANIZED CONDUIT ENTERING THE BOTTOM OF THE PANEL. ALL WIRE SHALL BE COPPER. HIGH LEG ON 240 VOLT SHALL BE TAPED ORANGE AND PUT ON CENTRAL TERMINAL IN PANEL AND RIGHT TERMINAL IN METER.
- PROVIDE PVC SCHEDULE 40 CONDUITS WITH SWEEP BENDS FROM THE JUNCTION BOX TO THE WET WELL.
- SUPPORT PUMP CABLES WITH STAINLESS STEEL SPLIT BASKET KELLUM (OR EQUAL) GRIPS IN WET WELL. SUPPORT FLOAT CABLE ON S.S. TRIMBLE FROM THE BACK. ALL HARDWARE IN THE WET WELL AND ALL FASTENERS SHALL BE STAINLESS STEEL. CABLES SHALL BE CONTINUOUS FROM THE JUNCTION BOX TO THE MOTORS OR SENSORS.
- WHEN CONNECTIONS ARE COMPLETE IN THE JUNCTION BOX, COAT THE TERMINAL BLOCKS AND WIRE ENDS WITH PROTECTIVE COMPOUND, NO-OXIDE OR EQUAL, TO PREVENT CORROSION.
- PROVIDE 3/4 INCH RIGID GALVANIZED CONDUIT FROM THE PANEL TO 120 VOLT TRANSFORMER. ALL CONDUITS ENTER BOTTOM OF THE PANEL UNLESS OTHERWISE SHOWN. SEAL ALL CONDUITS WITH DUCT SEAL TO KEEP OUT MOISTURE.
- PAINT PVC PIPES, CONDUITS AND ANY PARTS NOT STAINLESS OR ALUMINUM WITH TWO (2) COATS OF ALUMINUM PAINT.
- LIFT STATION START UP SHALL BE PERFORMED DURING THE ANTICIPATED PEAK FLOW CONDITIONS. TEST AS FOLLOWS (PUMP SUPPLIER'S FIELD REPRESENTATIVE MUST BE PRESENT AT THE START UP):
 - MEGGER MOTORS, MOTORS SHALL BE 20 MEGOHMS OR MORE TO GROUND, DO NOT MEGGER LOW VOLTAGE CONTROLS.
 - CHECK VOLTAGE, CHECK PUMP ROTATION, RECORD VOLTAGE AND AMPS UNDER LOAD.
 - DEMONSTRATE PROPER OPERATION OF ALL CONTROLS.
 - CONDUCT DRAWDOWN TESTS AS REQUIRED TO CONFIRM PROPER PUMP/IMPELLER INSTALLATION.
 - CHECK OPERATION WITH OWNER'S PORTABLE GENERATOR CHANGE WIRE CONNECTIONS IN THE PANEL TO GIVE CORRECT ROTATION.
- TEST AND DEMONSTRATE PROPER OPERATION OF THE RADIO TELEMETRY SYSTEM. SUPPLIER'S FIELD REPRESENTATIVE SHALL MOUNT AND CONNECT THE ANTENNA AND MAKE THE FINAL CONNECTIONS TO THE SYSTEM.
- PROVIDE LIQUID TIGHT NONMETALLIC FLEXIBLE CONDUIT (CARLON CARLEX) WITH SEAL TYPE FITTINGS FOR LEVEL TRANSMITTER CABLE INSIDE THE WET WELL.
- PROVIDE GAS SEALOFF WITH CHICO COMPOUND FOR CONDUITS BETWEEN JUNCTION BOX AND CONTROL PANEL.
- ALL STAINLESS STEEL SHALL BE 316 UNLESS INDICATED OTHERWISE.

CONTROL PANEL INSTALLATION NOTES 58S



TYPICAL LIFT STATION SECTION WITH CAST-IN LINER 49S

WET WELL DATA

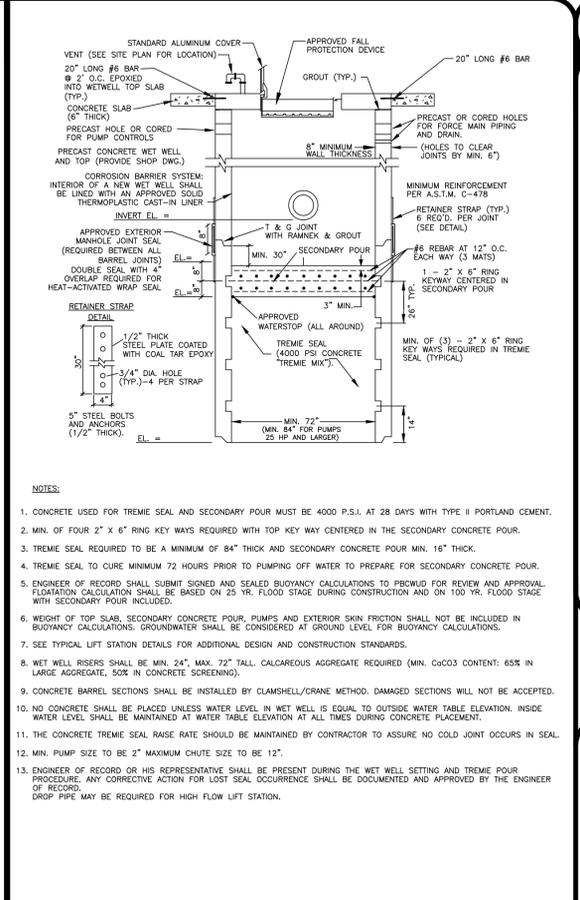
	PROPOSED	AS-BUILT
STATION NUMBER		
DIAMETER		
TOP SLAB ELEV.		
BASE SLAB ELEV.		
INFLUENT ELEV.		
HIGH WATER ALARM		
STANDBY PUMP ON		
DUTY PUMP ON		
BOTH PUMPS OFF		
FINISHED GRADE		
LOCATED ON SHEET		

PUMP DATA

PUMP STATION NUMBER	
PUMP NUMBER	
MAX./MIN. G.P.M.	
MIN./MAX. T.D.H	
MANUFACTURER	
MODEL	
IMPELLER NUMBER	
R.P.M.	
H.P.	
SIZE	
MAX. SOLID SIZE	
PHASE	
CYCLE	
VOLTS	

RTU RECORD DATA

ADDRESS	LOCATION DESCRIPTION
GEOGRAPHICAL LOCATION	LAT. 26° ' "N LONG. 80° ' "W (DISTANCES AND DIRECTIONS FROM CENTERLINES AND/OR INTERSECTIONS OF STREETS, CANALS OR EQUAL)
HEIGHT OF ANTENNA ABOVE SLAB	FEET
FREQUENCY	MHZ
POWER	WATTS
P.B.C. LIFT STATION No.	



LIFT STATION WETWELL SETTING TREMIE POUR DETAIL 52S

LIFT STATION MECHANICAL STANDARD DETAILS, 1 OF 2

CONSULTANT:

DESIGNED BY: WUD

DRAWN BY: WUD_CADD

CHECKED BY: A. GALICKI

APPROVED BY: WUD

Palm Beach County
Water Utilities Department
P.O. Box 16097
West Palm Beach, FL 33416-6097

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SEAL

Feb 04, 2016

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