STANDARDS FOR LIFT/PUMP STATIONS

1. THE TOP OF THE WET WELL SLAB, TOP OF THE CONTROL PANEL / RTU SLAB AND VALVE ASSEMBLY SLAB SHALL BE LEVEL AND AT THE SAME ELEVATION. THAT ELEVATION SHALL BE AT OR ABOVE THE 25-YEAR FLOOD ELEVATION.

2. INSTALL 6 INCHES OF COMPACTED 1 INCH, WASHED, CRUSHED SHELL OVER ONE LAYER OF WEED BARRIER OVER ALL EXPOSED GROUND SURFACES. ONE LAYER OF WEED BARRIER IS TO BE LAID AND EXTEND 4 FEET OUTSIDE OF THE FENCE LINE. THE WEED BARRIER SHALL BE MIRASCAPE MANUFACTURED BY MIRAFI OR APPROVED EQUAL. ALL FINISHED GRADE SURFACES SHALL SLOPE AWAY FROM THE CONCRETE SLABS AT A MINIMUM SLOPE OF 2%, EXTENDING 4 FEET OUTSIDE OF THE FENCE LINE. PRIOR TO INSTALLING THE WEED BARRIER, ALL DISTURBED GROUND SHALL BE COMPACTED TO 95% MAX DENSITY, AASHTO T-180, WITH A 4-POINT PROCTOR COMPACTION TEST TO BE PERFORMED WITHIN THE 4 FOOT AREA OUTSIDE OF THE FENCE LINE.

3. ALL LIFT STATION DRIVEWAYS SHALL BE 6 INCH THICK CLASS I, MINIMUM 3000 PSI, FIBERMESH REINFORCED CONCRETE WITH 3 LBS/CY OF 100% VIRGIN POLYPROPYLENE COLLATED, FIBRILLATED FIBERS FROM FIBERMESH CO. OR EQUAL, EXTENDING FROM THE BACK OF THE CURB TO LESS THAN 1 FOOT (<1') INSIDE THE FENCE GATE OPENING. THE 14 FOOT WIDE DRIVEWAY SHALL ALIGN WITH THE CENTER OF THE FENCE GATE AND THE WET WELL. THE TOP 12 INCHES OF THE DRIVEWAY SUBGRADE SHALL BE SUBJECT TO A 4-POINT PROCTOR COMPACTION TEST COMPACTED TO 98% DENSITY, AASHTO T-180. MAXIMUM SLOPE SHALL NOT EXCEED 7% FOR ALL LIFT STATION DRIVEWAYS.

4. HDPE SHALL BE USED FOR ALL PIPING IN THE WETWELL THROUGH THE WET WELL WALL PENETRATION TO THE FIRST ABOVE GRADE 90° BEND. ALL HDPE FITTINGS SHALL BE MOLDED, WHERE CONNECTIONS TO FLANGED PIPING, VALVES, AND FITTINGS SHALL BE MADE WITH HDPE FLANGE ADAPTERS. ALL DIP FITTINGS SHALL BE CLASS 53 FLANGED JOINT. ALL BURIED DIP AND FITTINGS SHALL BE CLASS 150 RESTRAINED MECHANICAL JOINT WITH A 1 MIL MINIMUM APPLICATION OF MANUFACTURER'S STANDARD ASPHALTIC BIT MASTIC COATING. ALL DIP AND FITTINGS USED ON THE LIFT STATION SITE SHALL BE LINED ON THE INTERIOR WITH A MINIMUM OF 40 MILS OF PROTECTO 401 CERAMIC EPOXY. ALL OTHER EXPOSED DIP FITTINGS SHALL BE COATED ON THE EXTERIOR WITH A MINIMUM OF 11 MILS OF TNEMEC SERIES 66 POLYAMIDE EPOXY OR EQUAL.

5. ALL LIFT STATION RELATED HARDWARE MUST BE 316 S.S., SHALL NOT BE PAINTED, AND SHALL ADHERE TO ASTM A967. 316 S.S. WASHERS & NUTS AND BOLTS SHALL BE USED WITH ALL FLANGED JOINTS.

6. SURVEY MARKERS, STEEL BAR AND CAP, SHALL MARK THE EXACT EASEMENT LINES OF THE LIFT STATION SITE.

7. ELECTRICAL, INSTRUMENTATION, AND CONTROL DRAWINGS SHALL BE LAMINATED AND PLACED INSIDE THE CONTROL PANEL.

8. THE HOSE BIB ASSEMBLY SHALL BE FIRMLY ATTACHED TO A 5X5 INCH CONCRETE POST OR APPROVED EQUAL AND SHALL BE A MINIMUM OF 24 INCHES ABOVE FINISHED GRADE POSITIONED INSIDE THE FENCE AREA NEXT TO THE GATE UNLESS UTILITIES ADVISES OTHERWISE. A MINIMUM OF 6 FEET CLEARANCE FROM THE CONTROL PANEL IS REQUIRED. THE RISER PIPE SHALL BE RIGID COPPER MOUNTED TO THE CONCRETE POST. THE REDUCED PRESSURE ZONE (RPZ) SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE SARASOTA COUNTY BACKFLOW ORDINANCE.

9. PRIOR TO ACCEPTANCE OF THE LIFT STATION, THE SITE SHALL BE COMPLETELY CLEARED OF ALL CONSTRUCTION DEBRIS, THE WET WELL SHALL BE WASHED DOWN, THE CONTROL PANEL SHALL BE CLEANED OF ALL METAL SHAVINGS, ALL PIPING AND FITTINGS SHALL BE FINISH COATED AS REQUIRED, AND THE LIFT/PUMP STATION SHALL BE TESTED AND FOUND TO BE FULLY OPERATIONAL.

10. ALL ABOVE GROUND PIPING SHALL BE COLOR COATED: BLUE FOR POTABLE WATER (TNEMEC SAFETY BLUE, SC06), GREEN FOR WASTEWATER (TNEMEC 09SF SPEARMINT GREEN/SAFETY), AND PURPLE FOR REUSE (BEHR PANTONE 522C). HDPE PIPING SHALL NOT BE COATED.

11. THE LOCATION OF ALL BURIED PIPING AND ELECTRICAL CONDUITS ARE TO BE INCLUDED ON THE RECORD DRAWINGS.

12. FOR ELECTRICAL SERVICE, PROVIDE A COMMERCIAL METER CAN AND A 100 AMP (MINIMUM) FUSE-TYPE MAIN DISCONNECT MEETING THE LATEST ELECTRICAL CODES AND REQUIREMENTS OF FPL. THE MAIN DISCONNECT SHALL BE HOUSED IN AN ENCLOSURE WITH PADLOCK LATCH. A SECONDARY SURGE ARRESTOR OF THE APPROPRIATE VOLTAGE AND PHASE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTROL PANEL AND JUNCTION BOX SHALL BE DESIGNED TO MINIMIZE WIRE BENDING. ALL TRANSFORMERS TO BE LOCATED OUTSIDE OF PANELS. THE ELECTRICAL POWER SHALL BE 3-PHASE, 480 VOLTS.

13. BYPASS VALVE TO FACE AWAY FROM CONTROL PANEL AND RTU PANEL.

N.T.S.