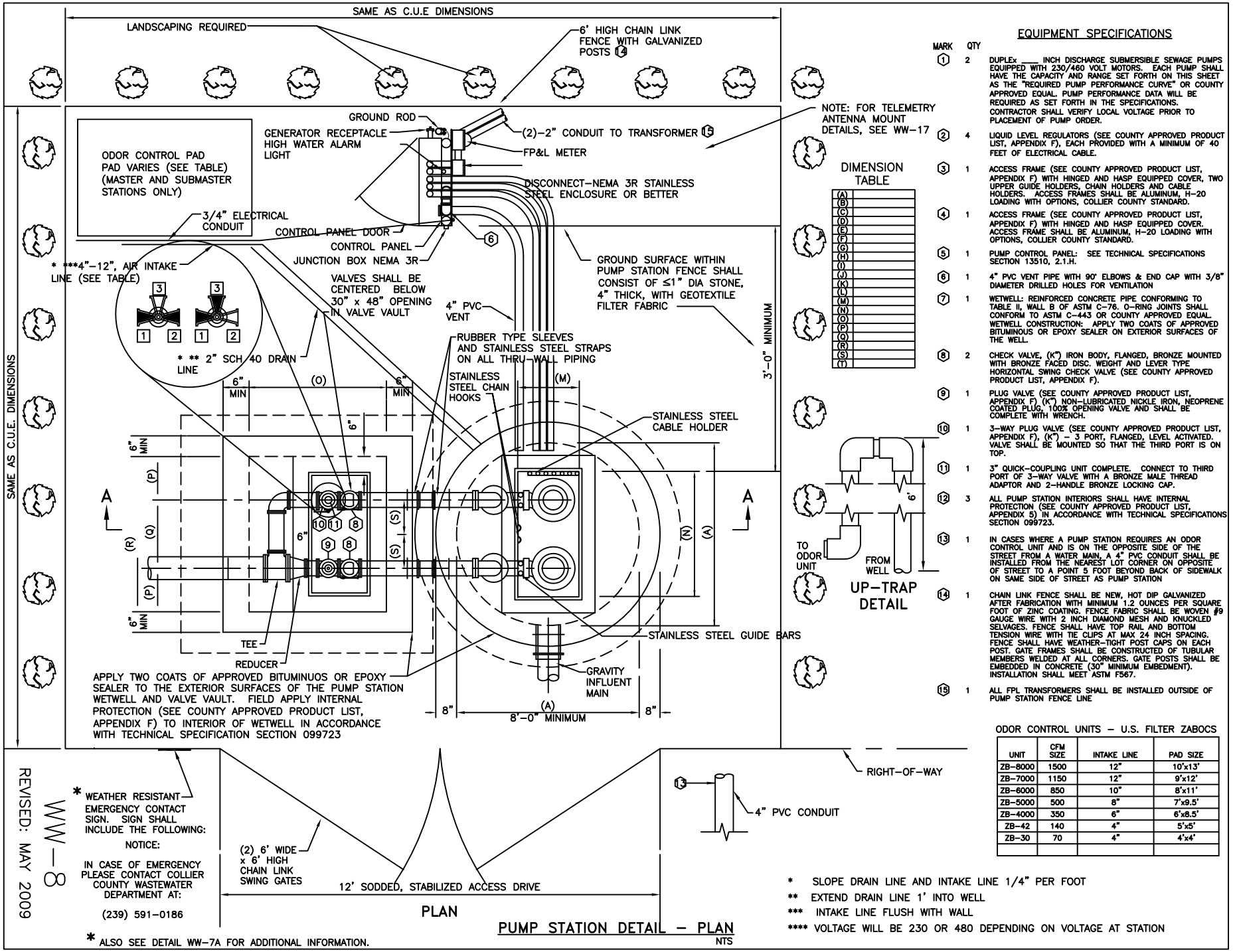

EQUIPMENT SPECIFICATIONS

MARK	QTY	
1	2	DUPLEx ___ INCH DISCHARGE SUBMERSIBLE SEWAGE PUMPS EQUIPPED WITH 230/460 VOLT MOTORS. EACH PUMP SHALL HAVE THE CAPACITY AND RANGE SET FORTH ON THIS SHEET AS THE "REQUIRED PUMP PERFORMANCE CURVE" OR COUNTY APPROVED EQUAL. PUMP PERFORMANCE DATA WILL BE REQUIRED AS SET FORTH IN THE SPECIFICATIONS. CONTRACTOR SHALL VERIFY LOCAL VOLTAGE PRIOR TO PLACEMENT OF PUMP ORDER.
2	4	LIQUID LEVEL REGULATORS (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F), EACH PROVIDED WITH A MINIMUM OF 40 FEET OF ELECTRICAL CABLE.
3	1	ACCESS FRAME (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F) WITH HINGED AND HASP EQUIPPED COVER, TWO UPPER GUIDE HOLDERS, CHAIN HOLDERS AND CABLE HOLDERS. ACCESS FRAMES SHALL BE ALUMINUM, H-20 LOADING WITH OPTIONS, COLLIER COUNTY STANDARD.
4	1	ACCESS FRAME (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F) WITH HINGED AND HASP EQUIPPED COVER. ACCESS FRAME SHALL BE ALUMINUM, H-20 LOADING WITH OPTIONS, COLLIER COUNTY STANDARD.
5	1	PUMP CONTROL PANEL: SEE TECHNICAL SPECIFICATIONS SECTION 13510, 2.1.H.
6	1	4" PVC VENT PIPE WITH 90° ELBOWS & END CAP WITH 3/8" DIAMETER DRILLED HOLES FOR VENTILATION
7	1	WETWELL: REINFORCED CONCRETE PIPE CONFORMING TO TABLE II, WALL B OF ASTM C-76. O-RING JOINTS SHALL CONFORM TO ASTM C-443 OR COUNTY APPROVED EQUAL. WETWELL CONSTRUCTION: APPLY TWO COATS OF APPROVED BITUMINOUS OR EPOXY SEALER ON EXTERIOR SURFACES OF THE WELL.
8	2	CHECK VALVE, (K") IRON BODY, FLANGED, BRONZE MOUNTED WITH BRONZE FACED DISC. WEIGHT AND LEVER TYPE HORIZONTAL SWING CHECK VALVE (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F).
9	1	PLUG VALVE (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F) (K") NON-LUBRICATED NICKLE IRON, NEOPRENE COATED PLUG, 100% OPENING VALVE AND SHALL BE COMPLETE WITH WRENCH.
10	1	3-WAY PLUG VALVE (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX F), (K") - 3 PORT, FLANGED, LEVEL ACTIVATED. VALVE SHALL BE MOUNTED SO THAT THE THIRD PORT IS ON TOP.
11	1	3" QUICK-COUPLING UNIT COMPLETE. CONNECT TO THIRD PORT OF 3-WAY VALVE WITH A BRONZE MALE THREAD ADAPTOR AND 2-HANDLE BRONZE LOCKING CAP.
12	3	ALL PUMP STATION INTERIORS SHALL HAVE INTERNAL PROTECTION (SEE COUNTY APPROVED PRODUCT LIST, APPENDIX 5) IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS SECTION 099723.
13	1	IN CASES WHERE A PUMP STATION REQUIRES AN ODOR CONTROL UNIT AND IS ON THE OPPOSITE SIDE OF THE STREET FROM A WATER MAIN, A 4" PVC CONDUIT SHALL BE INSTALLED FROM THE NEAREST LOT CORNER ON OPPOSITE OF STREET TO A POINT 5 FOOT BEYOND BACK OF SIDEWALK ON SAME SIDE OF STREET AS PUMP STATION
14	1	CHAIN LINK FENCE SHALL BE NEW, HOT DIP GALVANIZED AFTER FABRICATION WITH MINIMUM 1.2 OUNCES PER SQUARE FOOT OF ZINC COATING. FENCE FABRIC SHALL BE WOVEN #9 GAUGE WIRE WITH 2 INCH DIAMOND MESH AND KNUCKLED SELVAGES. FENCE SHALL HAVE TOP RAIL AND BOTTOM TENSION WIRE WITH TIE CLIPS AT MAX 24 INCH SPACING. FENCE SHALL HAVE WEATHER-TIGHT POST CAPS ON EACH POST. GATE FRAMES SHALL BE CONSTRUCTED OF TUBULAR MEMBERS WELDED AT ALL CORNERS. GATE POSTS SHALL BE EMBEDDED IN CONCRETE (30" MINIMUM EMBEDMENT). INSTALLATION SHALL MEET ASTM F567.
15	1	ALL FPL TRANSFORMERS SHALL BE INSTALLED OUTSIDE OF PUMP STATION FENCE LINE

ODOR CONTROL UNITS - U.S. FILTER ZABOCS

UNIT	CFM SIZE	INTAKE LINE	PAD SIZE
ZB-8000	1500	12"	10'x13'
ZB-7000	1150	12"	9'x12'
ZB-6000	850	10"	8'x11'
ZB-5000	500	8"	7'x9.5'
ZB-4000	350	6"	6'x8.5'
ZB-42	140	4"	5'x5'
ZB-30	70	4"	4'x4'

* SLOPE DRAIN LINE AND INTAKE LINE 1/4" PER FOOT

** EXTEND DRAIN LINE 1' INTO WELL

*** INTAKE LINE FLUSH WITH WALL

**** VOLTAGE WILL BE 230 OR 480 DEPENDING ON VOLTAGE AT STATION

* ALSO SEE DETAIL WW-7A FOR ADDITIONAL INFORMATION.

PUMP STATION DETAIL - PLAN

NTS

REVISED: MAY 2009

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