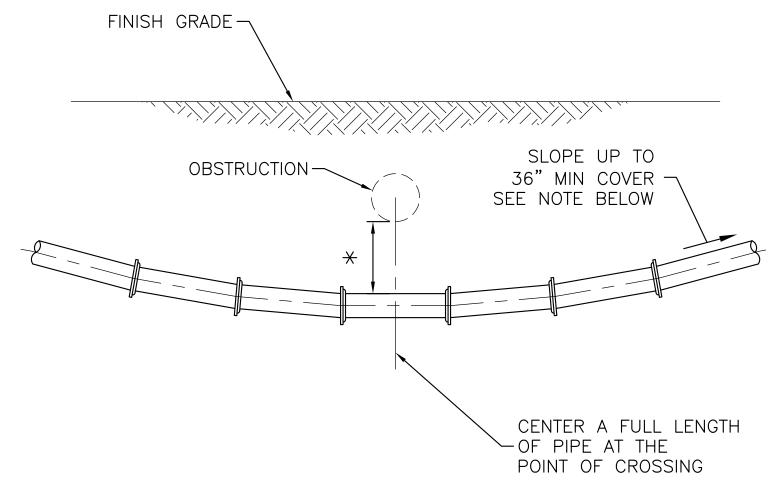
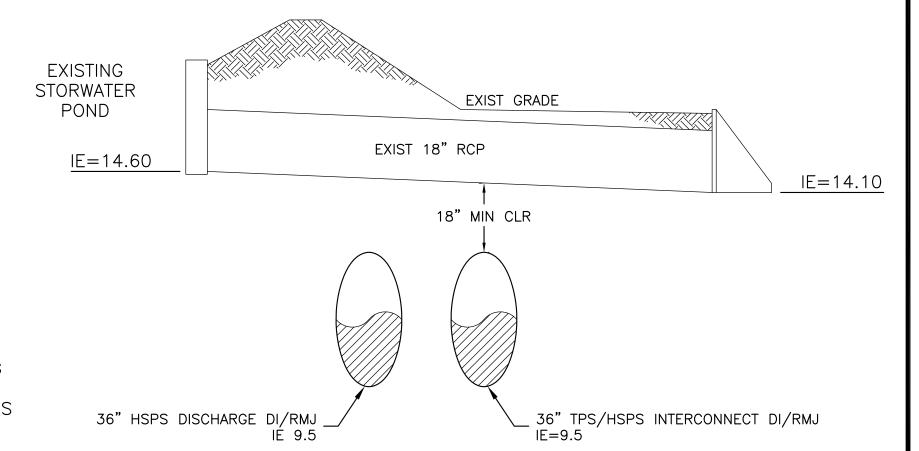


* 18" MIN CLEARANCE REQUIRED FOR POTABLE WATER MAINS, RECLAIMED WATER MAINS, SANITARY GRAVITY SEWER PIPING, SANITARY FORCE MAINS,



STANDARD UTILITY CROSSING - DEFLECTION TYPE

- 1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHERE EVER POSSIBLE. 2. CONSTRUCT STANDARD CROSSING USING 75% OF MANUFACTURERS MAXIMUM
- JOINT DEFLECTION (MAX). 3. TIE RODS SHALL BE STAINLESS STEEL.
- 4. TIE RODS MAY BE OMITTED WHEN OTHER APPROVED METHODS OF RESTRAINING
- 5. CONTRACTOR SHALL COORDINATE EXISTING PIPE RELOCATIONS AND SHUT DOWNS WITH PLANT PERSONNEL.



UTILITY CROSSING







7650 West Courtney Campell Causeway Suite 700 Tampa, Florida 33607 Ph: (813) 286-1711 Fax: (813) 286-6587 Florida Engineering Number: 000002

- WATER OR RECLAIMED

WATER MAIN -

M.J. BUTTERFLY VALVE —

URS JOB NUMBER 12010046 PM: D. WILCOX ENG: R. AVALOS DRW: T. SONNENBERG $\uparrow \uparrow$ RMA 3/29/12 ADDENDUM NO. 1 FILE SAVE DATE: NO. BY DATE DESCRIPTION March 23, 2012 **REVISIONS**



SECOND 10MG RECLAIMED WATER STORAGE TANK AND HIGH SERVICE PUMP STATION AT THE SOUTHWEST WATER RECLAMATION FACILITY

> MANATEE COUNTY GOVERNMENT MANATEE COUNTY, FLORIDA

CIVIL DETAILS

BID SET FEBRUARY 2012

PROJECT STATUS

C - 12FLORIDA P.E. NO. 34942

DAVID A. WILCOX

AND STORM WATER PIPES. THE "FITTING TYPE" DETAIL SHOULD ONLY BE USED WHEN "DEFLECTION TYPE" DETAIL IS NOT POSSIBLE. 1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE 2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.

1. "WV" OR "RWV" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH IF NO CURB, INSTALL A BLUE DISC WITH "WV" OR PURPLE DISC DISTANCE IN FEET TO THE VALVE. WITH "RWV" AND A 1/8"x1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.

2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD. 3. WATER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
4. PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.

5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2". FOR VALVES 16" AND LARGER, USE BUTTERFLY VALVES. 8. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR 9. BINGHAM & TAYLOR P200NFG OR EQUAL FOR NORMAL YARD SERVICE. WHERE VALVE WILL BE IN STREET OR PARKING

UNDER VEHICLE TRAFFIC, USE P525RD CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT BUTTERFLY VALVE, UW-3REV.BY DATE BOX, LID AND TAG CLB/KE 11/10 MAY 10, 2011 DATE OF APPROVAL PAGE 121