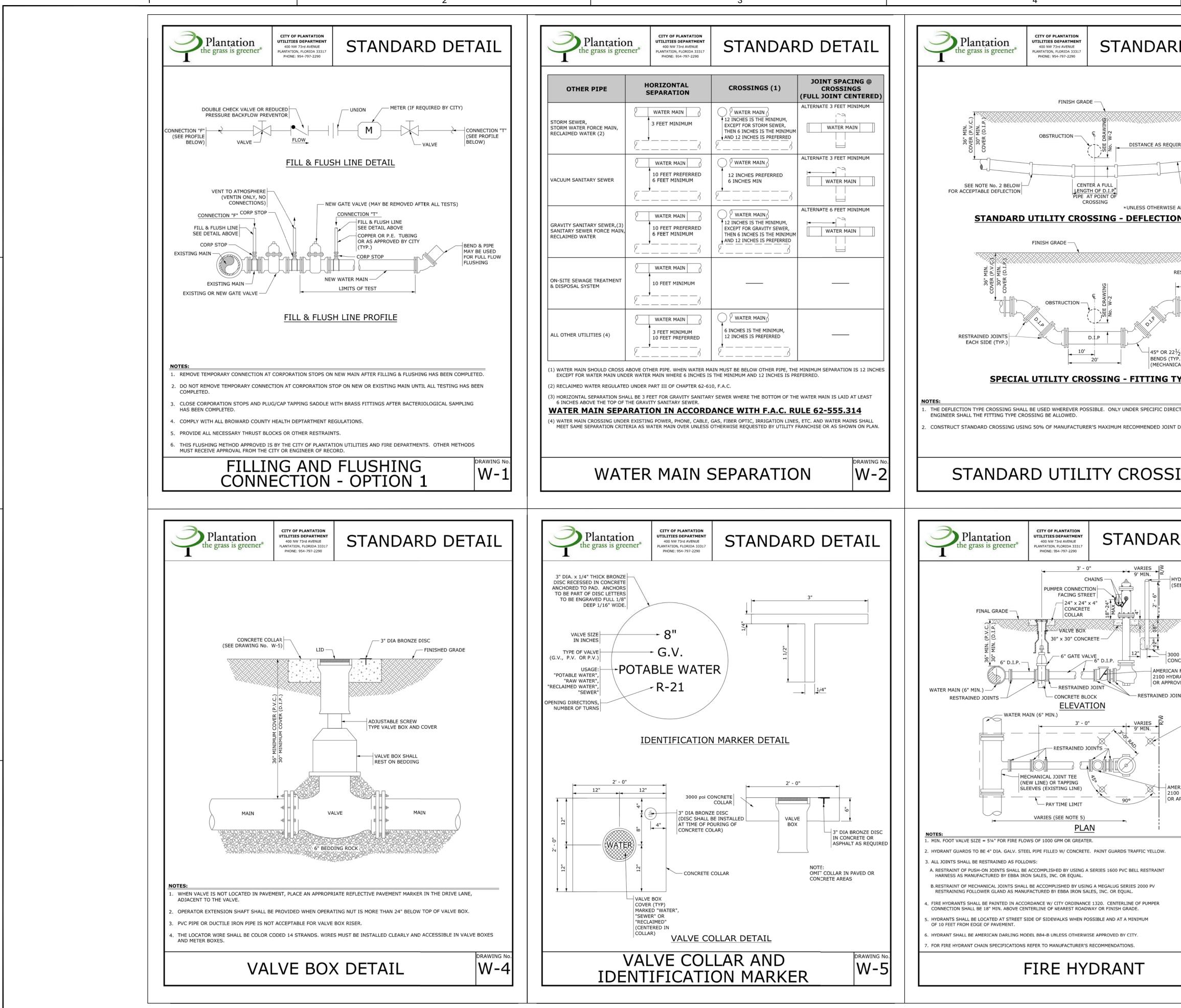


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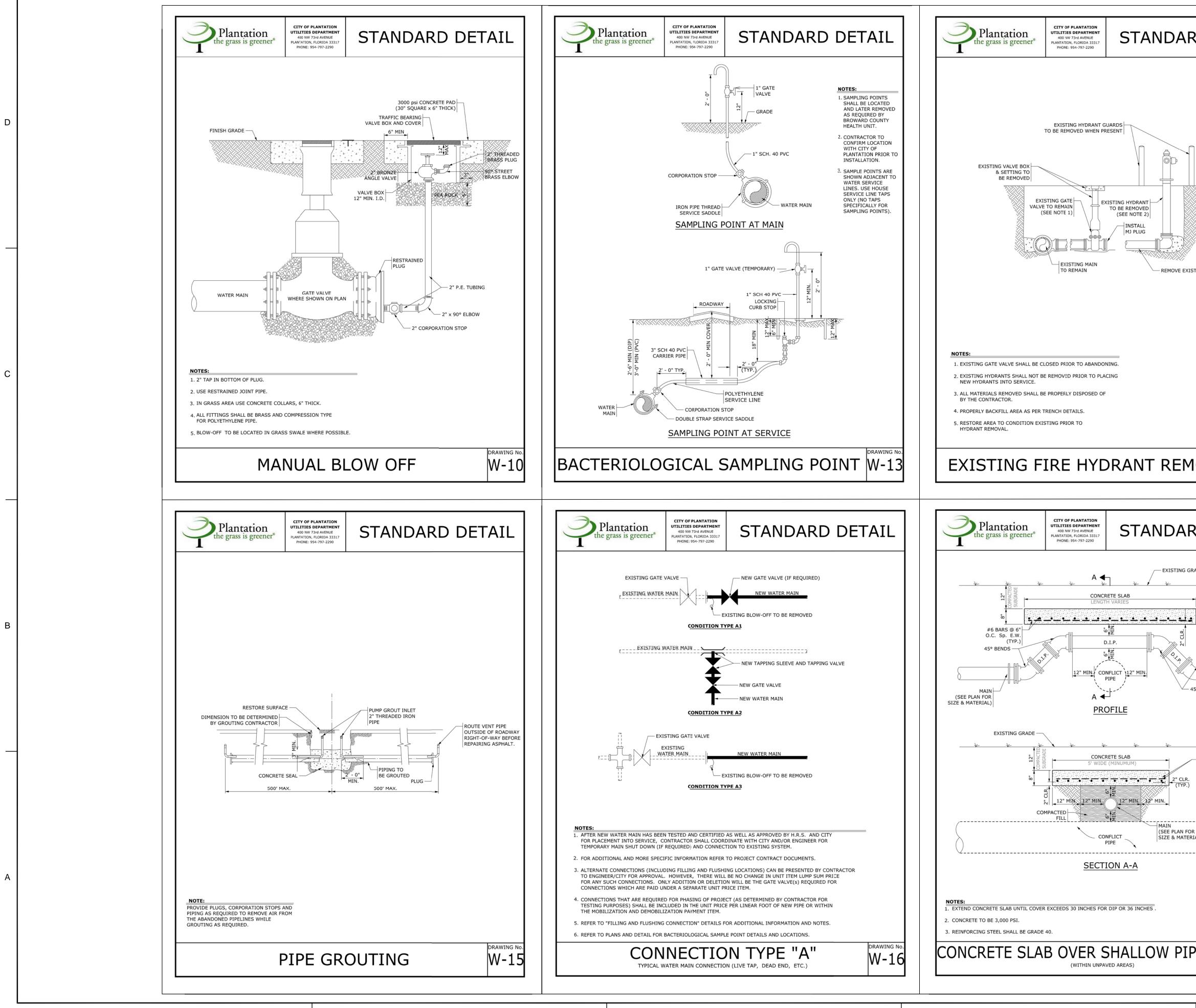
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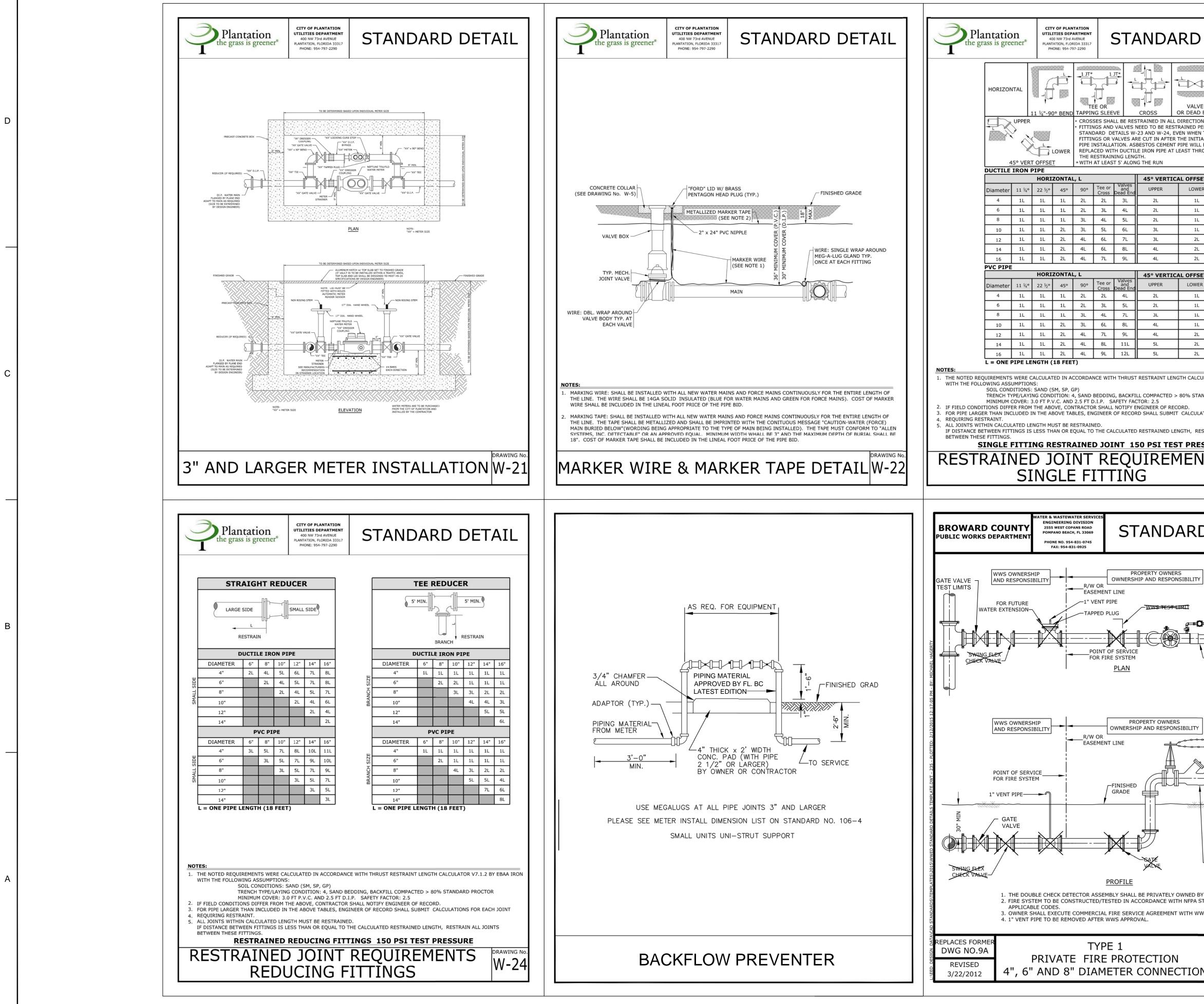
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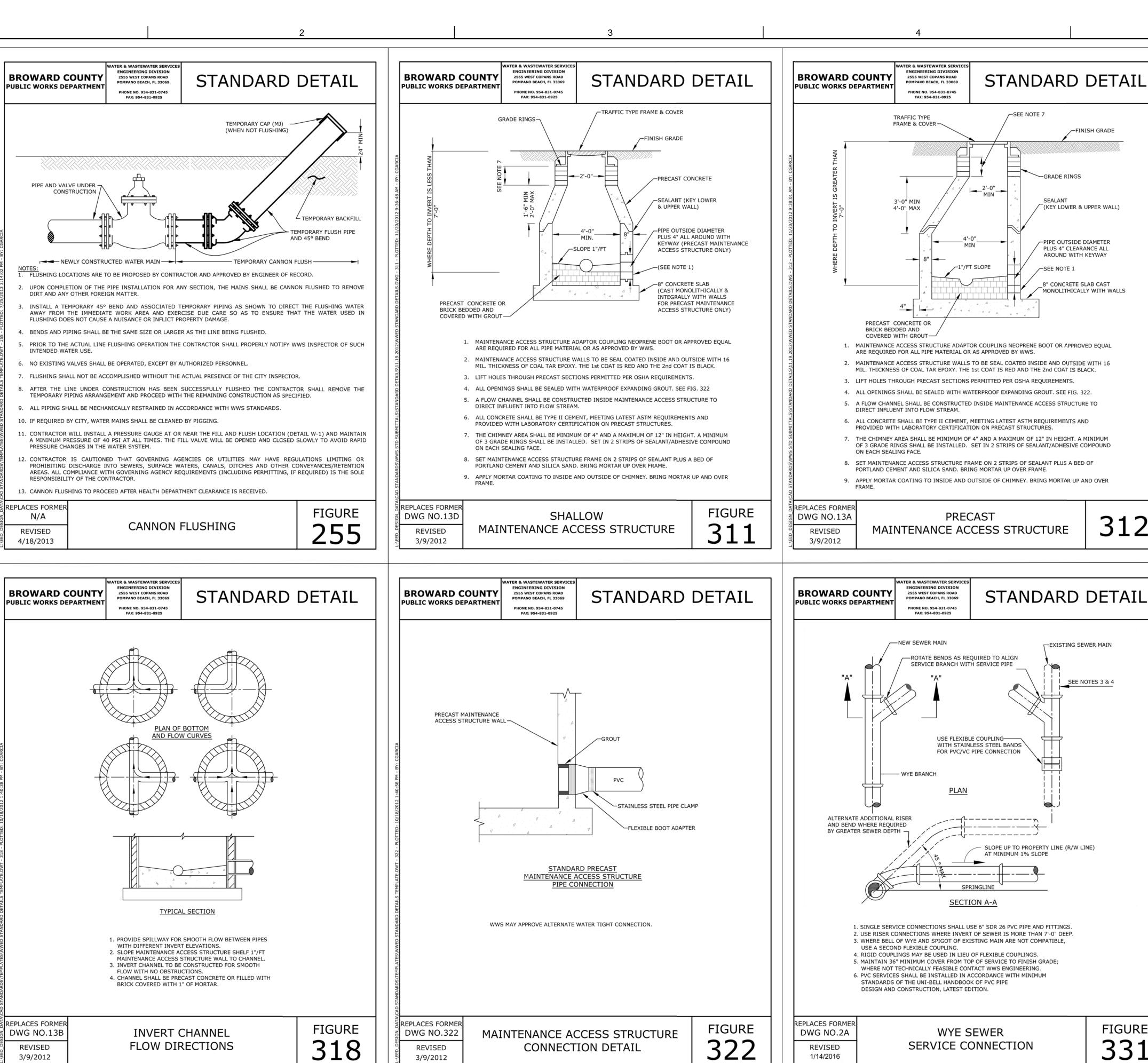
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	JAMES A. THIELE, P.E. FLORIDA REG. NO. 33256 (FOR THE FIRM)
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BY PROPERTY OWNER. STDS. AND ALL /WS.	SHEET NUMBER
FIGURE	CU-504
№ 235	CITY COMMISSION SUBMITTAL
	PROJECT NO. 08808.01

ing name: N:00'08808.01 - PIXL (Strata Phase 2) - Invesca\Engineering(Cadd\08808.01 CU-502-506.dwg Layout Name: CU-504 Plotted by: mcartossa Plotted on: Mar 01, 2019 - 2:25pr





REPLACES FORMER DWG NO.13B REVISED

3/9/2012

N/A

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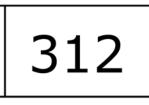


-FINISH GRADE

(KEY LOWER & UPPER WALL)

-PIPE OUTSIDE DIAMETER PLUS 4" CLEARANCE ALL AROUND WITH KEYWAY

8" CONCRETE SLAB CAST MONOLITHICALLY WITH WALLS



EXISTING SEWER MAIN

SEE NOTES 3 & 4

FIGURE 331

Z	KEI	ТН

301 East Atlantic Boulevard Pompano Beach, Florida 33060-6643

> 2160 NW 82nd Avenue Doral, Florida 33122

PH: (954) 788-3400

Florida Certificate of Authorization # - 7928

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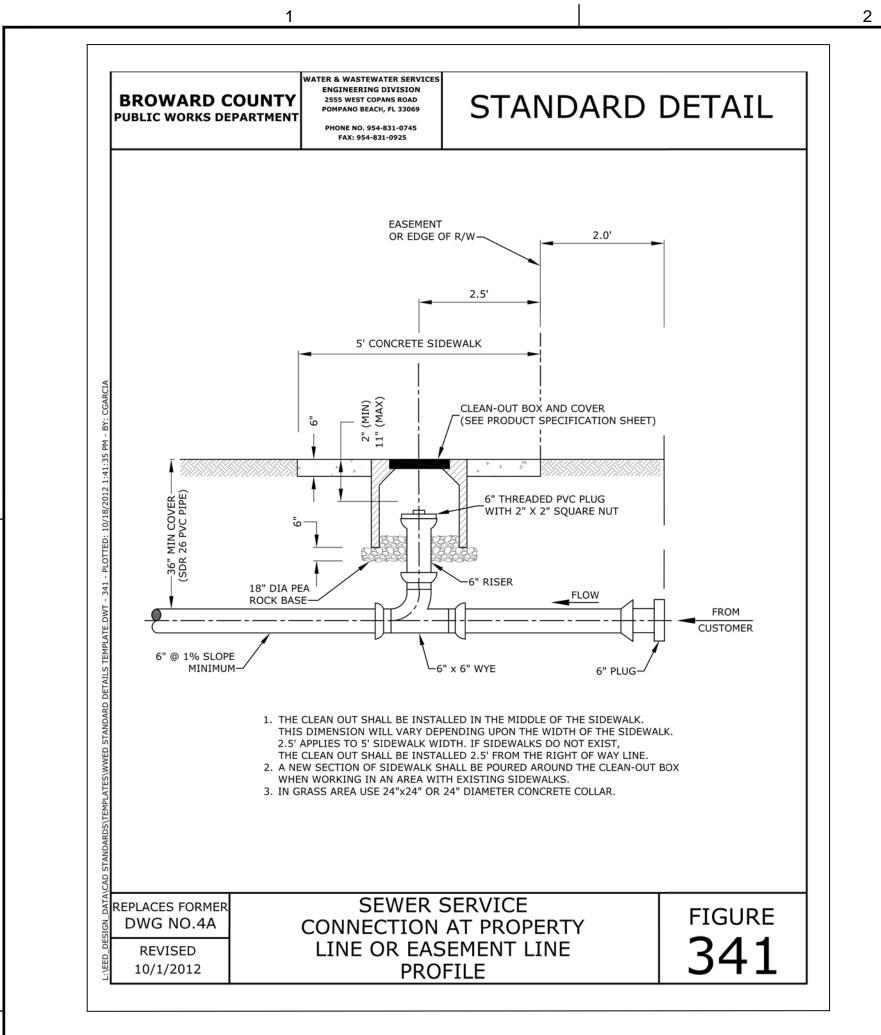
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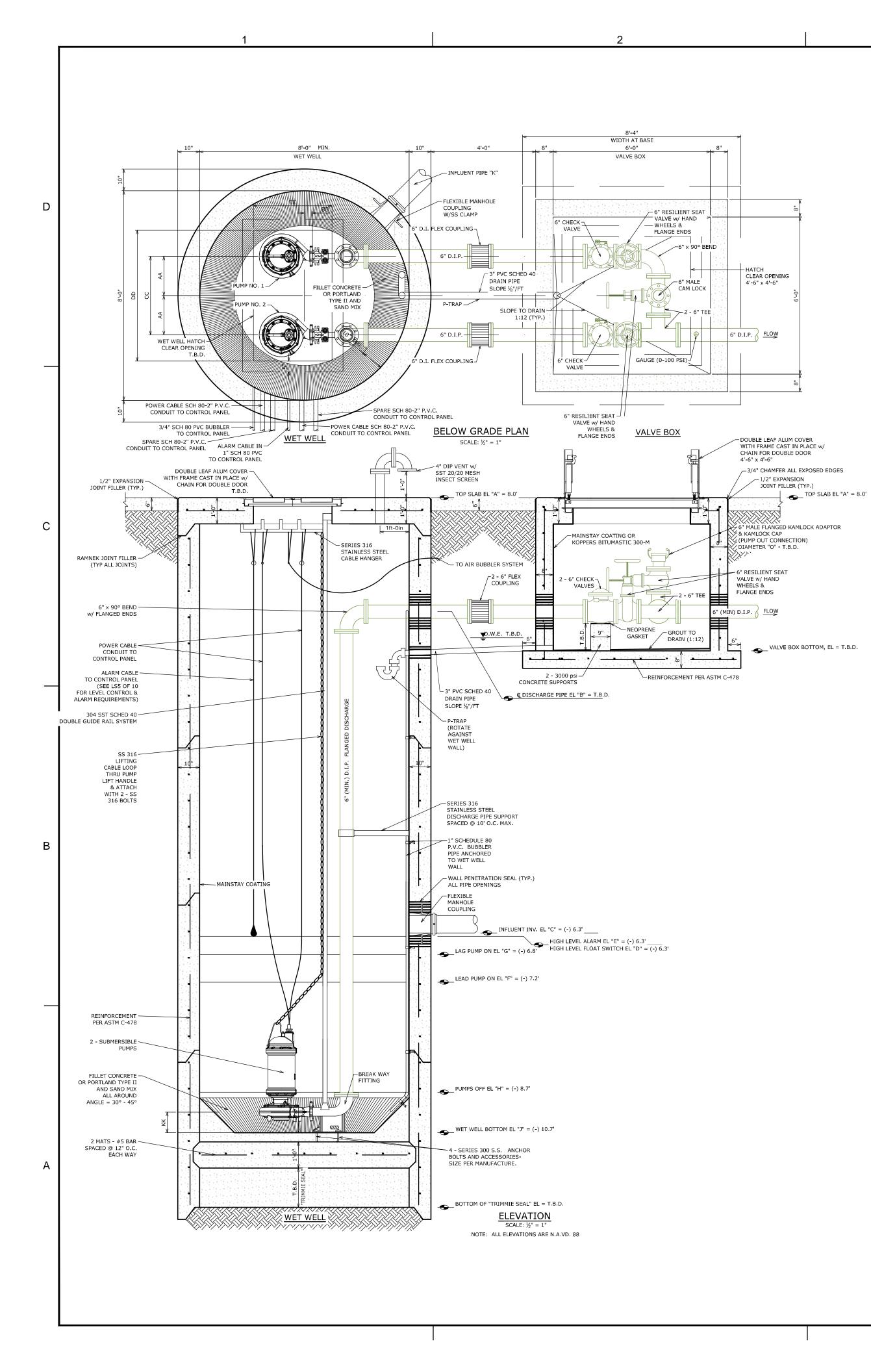
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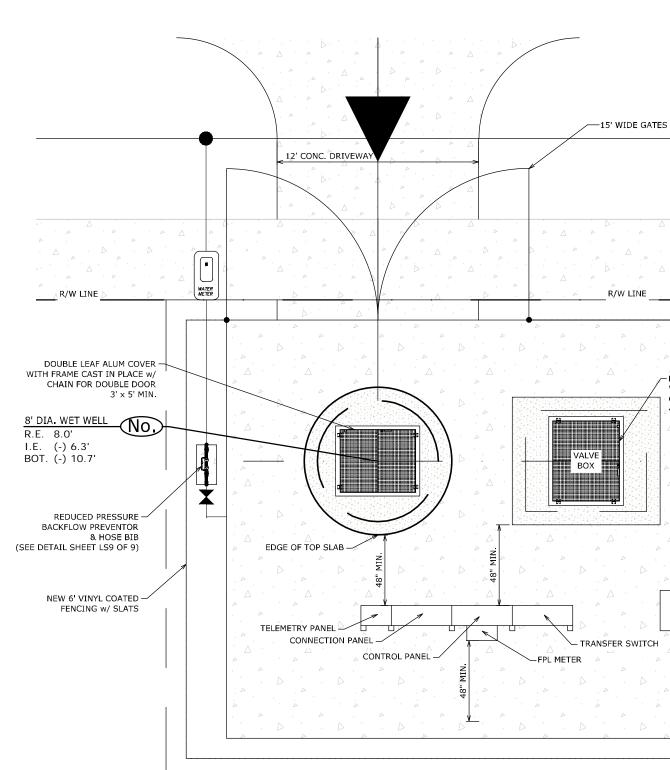
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	& SEWER TAILS
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CITY COMMISSION SUBMITTAL

PROJECT NO. 08808.01





GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF PLANTATION UTILITY STANDARDS AND FLORIDA BUILDING CODE, LATEST REVISION.
- 2. CONCRETE SHALL HAVE NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. PRE-CAST CONCRETE SHALL BE 4000 P.S.I. CLASS II MINIMUM.
- 3. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPEC. A-615 AND SHALL BE DEFORMED ACCORDING TO A.S.T.M. SPEC. 305.
- 4. ALL PIPING SHALL BE DUCTILE IRON PER AWWA C151, 40 MIL, EPOXY LINED, FLANGED JOINTS UNLESS OTHERWISE NOTED. ALL FITTING SHALL BE DUCTILE IRON OR CAST IRON PER AWWA C110, FLANGED JOINTS UNLESS OTHERWISE NOTED.
- 5. ALL PIPE OPENINGS SHALL BE CAST AT TIME OF FABRICATION.
- 6. SEWAGE PUMPS SHALL BE _____ SUBMERSIBLE, MODEL ____ WITH __ HP MOTORS, ___ VOLTS, _ PHASE, CAPABLE OF DELIVERING ____ GALLONS PER MINUTE AT A TOTAL DYNAMIC HEAD OF __ FEET TDH. TWO OF THESE PUMPS SHALL BE INSTALLED IN THE LIFT STATION. (SEE NOTE A, BELOW)
- 7. OPENINGS AROUND PIPES SHALL BE SEALED WITH EMBECO MORTAR.
- 8. ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION.
- 9. SHOP DRAWING FOR COMPLETE LIFT STATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL AND THEN SUBMITTED TO THE CITY OF PLANTATION UTILITY DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO DELIVERY TO SITE.
- 10. RPZ BACKFLOW PREVENTOR WITH A HOSE BIBB SHALL BE PROVIDED TO THE LIFT STATION.
- 11. CONTRACTOR SHALL ENSURE NO FLOATATION OF WET WELL DURING CONSTRUCTION.
- 12. GATE VALVES IN VALVE PIT SHALL BE RESILIENT SEAT, ECCENTRIC, WHEEL OPERATED OR APPROVED EQUAL.
- 13. CHECK VALVE SHALL BE KENNEDY, IRON BODY, BRONZE MOUNTED, SWING CHECK, LEVER & WEIGHT, OR APPROVED EQUAL.
- 14. PIPE COUPLING SHALL BE CAST IRON, DRESSER STYLE 127 OR APPROVED EQUAL.
- 15. SIX (6) COPIES OF THE OPERATIONAL AND MAINTENANCE MANUAL AND COPIES OF ELECTRICAL CONTROL PANEL SCHEMATIC, IN 24"X36" FORMAT TOGETHER WITH A PDF DOCUMENT, SHALL BE SUBMITTED TO THE UTILITY DEPARTMENT.
- 16. ALL FITTINGS INSIDE WETWELL AND VALVE PIT SHALL BE FLANGED, AND ALL HARDWARE INSIDE WETWELL SHALL BE STAINLESS STEEL # 316.
- 17. ELECTRICAL CONTROL PANEL SHALL BE PROVIDED WITH A UL LABEL, AND BE MANUFACTURED BY A UL 508 MANUFACTURER.
- A BAKELITE PLAQUE SHALL BE PROVIDED, NOT SMALLER THAN 60 SQUARE INCHES, WITH WHITE ENGRAVED LETTERS ON A RED BACKGROUND, WITH THE FOLLOWING NOTATIONS:

CITY OF PLANTATION, FLORIDA SEWAGE LIFT STATION NO. ____ PLEASE REPORT RED FLASHING ALARM LIGHT

- CALL TELEPHONE NO. 954-797-2189 TO REPORT POLLUTION CALL B.C.E.P.D. 19. MOTOR STARTERS, CIRCUIT BREAKERS AND ELECTRICAL CONTROL DEVICES SHALL BE SQUARE-D #8536 AND SHALL BE SIZED PER
- N.E.C. CODE (2002)
- 20. ELECTRICAL PANEL MUST HAVE A STORAGE COMPARTMENT INSIDE PANEL DOOR FOR OPERATIONAL AND MAINTENANCE MANUAL.
- 21. ELECTRICAL SYSTEM SHALL BE PROTECTED BY A LIGHTNING ARRESTOR AND SURGE CAPACITOR.
- 22. POWER TOOL OUTLET TO BE MOUNTED IN DEAD FRONT AND MUST BE A G.F.I. RECEPTACLE.
- 23. HIGH-LEVEL ALARM LIGHT TO BE WIRED SEPARATE FROM CONTROL WIRING AND BE CIRCUIT BREAKER PROTECTED. THE THREE (3) FLASHING ALARM LIGHTS SHALL BE MANUFACTURED BY INGRAM PRODUCTS PART No. LX40F WITH LEXAN ALARM GLOBE (RED HIGH WATER ALARM, YELLOW/AMBER - AUXILARY POWER, GREEN - FP&L POWER) WITH L.E.D. LAMP OF EQUIVALENT WATTAGE.
- 24. SEAL OFFS TO BE PROVIDED ON ALL ELECTRICAL CONDUITS ENTERING CONTROL PANEL FROM WET WELL TYPE ES SEALING HUBS.
- 25. PROVIDE TWO (2) HOUR METERS.
- 26. SELECTOR SWITCHES SHALL BE SQARE-D 9001-KS43BH1 TO BE PROVIDED. ROUND TYPE 120V CRAMER 635G TO BE PROVIDED.
- 27. PILOT LIGHTS SHALL BE SQUARE-D 9001-KP38R9.
- 28. LIGHTNING ARRESTOR SHALL BE GENERAL ELECTRIC.
- 29. SURGE ARRESTOR SHALL BE GENERAL ELECTRIC.
- WET WELL AND VALVE BOX SHALL BE COATED OUTSIDE WITH TWO COATS (ONE BLACK, ONE RED) OF KOPPERS BITUMASTIC No. 300
 M. THE INSIDE OF THE WET WELL WILL RECIEVE A MAINSTAY COATING. THE INSIDE OF THE VALVE BOX SHALL BE COATED WITH TWO COATS (ONE BLACK, ONE RED) OF KOPPERS BITUMASTIC 300-M.
- 31. CUT OFF LIFTING HOOKS BELOW SLABS AND GROUT HOLES FLUSH.

NOTE A:

- PRIOR TO FINAL PLAN APPROVAL, THE FOLLOWING PUMPS WILL BE APPROVED AT THE CITY OF PLANTATION'S DISCRETION FOR EACH LIFT STATION: XYLEM & WILO - ALL SUBMERSIBLE SIZES
- BARNES, TSURUMI SUBMERSIBLE, 10 H.P. AND UNDER HYDROMATIC - SUBMERSIBLE, 2 H.P. AND UNDER
- GORMAN RUPP & CROWN SUCTION-LIFT PUMPS

TOP PLAN SCALE: 1/4" = 1"

ELEVATION	N DATA		PUMP
TOP SLAB ELEVATION	"A"	8.0'	NUMBER OF PUMPS
Ç DISCHARGE PIPE ELEVATION	"B"	T.B.D.	DESIGN G.P.M.
INFLUENT PIPE INVERT ELEVATION	"C"	(-) 6.3'	TOTAL DYNAMIC HE
HIGH WATER FLOAT SWITCH	"D"	(-) 6.3'	
HIGH WATER ALARM	"E"	(-) 6.3'	PUMP -
LEAD PUMP ON	"F"	(-) 7.2'	IMPELLER SIZE
LAG PUMP ON	"G"	(-) 6.8'	R.P.M.
ALL PUMPS OFF	"H"	(-) 8.7'	H.P.
WET WELL BASE SLAB ELEVATION	"נ"	(-) 10.7'	DISCHARGE SIZE
WETWELL INSIDE DIAMETER	"K"	8'-0" MIN.	MAXIMUM SOLID SI
INFLUENT PIPE DIAMETER	"K"	T.B.D.	PHASE
PUMP DISCHARGE PIPE DIAMETER	"M"	6"	CYCLE (HZ)
OPERATING RANGE	"N"	T.B.D.	VOLTS
PUMP OUT DIAMETER	"0"	6"	PUMP WEIGHT
BASE SLAB THICKNESS	"P"	12"	PUMP CYCLE TIME
WETWELL ငူ TO PUMP ငူ	"AA"	T.B.D.	
WETWELL & TO PUMP INTAKE FACE	"BB"	T.B.D.	
Ρυμρ ς το ρυμρ ς	"CC"	T.B.D.	
MIN. WETWELL HATCH OPENING LENGTH	"DD"	T.B.D.	
MIN. WETWELL HATCH OPENING WIDTH	"EE"	T.B.D.	
VALVE VAULT WIDTH	"нн"	6' MIN.	
VALVE VAULT LENGTH	"ננ"	6' MIN.	
WETWELL BOTTOM TO VOLUTE BOTTOM	"КК"	T.B.D.	

NOTE: ALL ELEVATIONS ARE N.A.VD. 88

NUMBER OF PUMPS DESIGN G.P.M. TOTAL DYNAMIC HEAD (FT) PUMP IMPELLER SIZE R.P.M. H.P. DISCHARGE SIZE MAXIMUM SOLID SIZE PHASE CYCLE (HZ)

