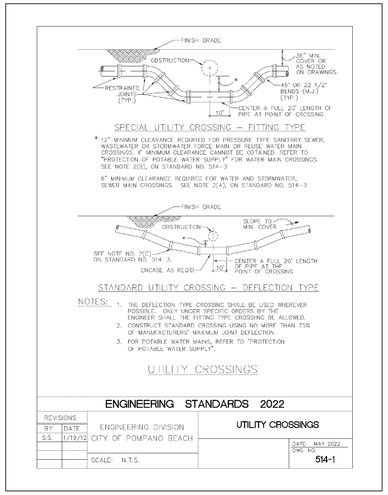


SPECIAL UTILITY CROSSING – FITTING TYPE

* 12" MINIMUM CLEARANCE REQUIRED FOR PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN OR REUSE WATER MAIN CROSSINGS. 6" MINIMUM CLEARANCE CANNOT BE OBTAINED. REFER TO "PROTECTION OF POTABLE WATER SUPPLY" FOR WATER MAIN CROSSINGS. SEE NOTE 2(B), ON STANDARD NO. 514-3

6" MINIMUM CLEARANCE REQUIRED FOR WATER AND STORMWATER, SEWER MAIN CROSSINGS. SEE NOTE 2(A), ON STANDARD NO. 514-3

STANDARD UTILITY CROSSING – DEFLECTION TYPE

NOTES:
1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHEREVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT STANDARD CROSSING USING NO MORE THAN 75% OF MANUFACTURERS' MAXIMUM JOINT DEFLECTION.
3. FOR POTABLE WATER MAINS, REFER TO "PROTECTION OF POTABLE WATER SUPPLY".

UTILITY CROSSINGS

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	UTILITY CROSSINGS
S.S.	1/19/12	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 514-1

PROTECTION OF POTABLE WATER SUPPLY NOTES

A. GENERAL
IN ADDITION TO THESE REQUIREMENTS, ALL POTABLE WATER MAINS CONSTRUCTED IN THE VICINITY OF STORM SEWERS, SANITARY SEWERS AND FORCE MAINS SHALL COMPLY WITH THE MOST STRINGENT PROVISIONS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555, GREAT LAKES–UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS (GLUMRB) "RECOMMENDED STANDARDS FOR WATER WORKS", AND GLUMRB "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".

B. DEFINITIONS
FOR THE PURPOSES OF THIS SPECIFICATION, THE WORDS "OTHER PIPE" OR "OTHER PIPES" SHALL MEAN SANITARY SEWER MAIN, SEWAGE FORCE MAIN, STORMWATER MAIN OR ANY COMBINATION THEREOF.

C. CROSS CONNECTIONS PROHIBITED
THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND ANY OTHER PIPE OR PIPELINE CARRYING SEWAGE OR INDUSTRIAL WASTES, OR ANY PIPE OR ANY WASTEWATER, POLLUTED WATER, OR ANY OTHER WASTE INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORMWATER MANHOLE.

D. RELATION OF OTHER PIPES TO POTABLE WATER MAINS
1. HORIZONTAL SEPARATION
A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM WATER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM TYPE SANITARY SEWER.
C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCES BETWEEN WATER MAINS AND GRAVITY TYPE SEWERS SHALL BE INCREASED TO THREE FEET WHERE THE BOTTOM OF THE WATER IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	GENERAL WATER SUPPLY NOTES
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 514-2

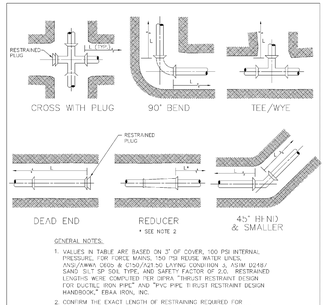
D. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".

2. VERTICAL SEPARATION:
A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
C. ALL UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS 6A AND 6B ABOVE, SHALL BE FULL LENGTH OF WATER MAIN PIPE AND BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, TIE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
WHERE THE HORIZONTAL CAN BEING LOCATED LESS THAT THE REQUIRED MINIMUM DISTANCES FROM JOINTS IN THE EITHER PIPELINE OR THE HORIZONTAL IS LESS THAN THIRTY FIFTY FROM ANOTHER PIPELINE OR THE UNDER GROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR RECOMMENDED SOLUTIONS TO MEET THE FLORIDA OF DEPARTMENT OF ENVIRONMENTAL REGULATION REQUIREMENTS PER CHAPTER 62-555, F.A.C.

PROTECTION OF POTABLE WATER SUPPLY NOTES

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	GENERAL WATER SUPPLY NOTES
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 514-3



GENERAL NOTES:
1. VALUES IN TABLE ARE BASED ON 3' OF COVER, 100 PSI INTERNAL PRESSURE, FOR FORCE MAINS, TAP TO REUSE WATER LINES, ANSI/AWWA C900 & C905/905 LAYING CONDITION 2, ASTM D2487, SAND SLIT OF SOIL TYPE, AND SAFETY FACTOR OF 2.0. RESTRAINED LENGTHS WERE COMPUTED PER DIPRA "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AND "PVC PIPE THRUST RESTRAINT DESIGN HANDBOOK" EBAA IRON, INC.
2. CONFIRM THE EXACT LENGTH OF RESTRAINING REQUIRED FOR REDUCERS, PIPE ENCASED IN POLYETHYLENE AND ENCROACHING RESTRAINED LENGTHS WITH THE DESIGN ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION OF ALL RESTRAINED JOINTS TO PREVENT MOVEMENT OF THE PIPE & FITTINGS.
4. IN THE EVENT OF A CONFLICT BETWEEN RESTRAINED LENGTHS SHOWN ON THE TABLE AND RESTRAINED LENGTHS SHOWN ON THE DRAWINGS, THE LONGEST RESTRAINED LENGTH SHALL BE USED.

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	RESTRAINED JOINT INFORMATION
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 515-1

PVC HORIZONTAL BENDS AND VERTICAL UP BENDS

PIPE SIZE (IN.)	RESTRAINED JOINT LENGTH L	BENDS				(MINIMUM DISTANCE IN FEET FROM FITTING – EACH WAY)
		90°	45°	22.5°	11.25°	
6		26	11	6	3	53
8		33	14	7	4	68
12		45	19	10	5	96

PVC VERTICAL DOWN BEND

PIPE SIZE (IN.)	RESTRAINED JOINT LENGTH L	BENDS				(MINIMUM DISTANCE IN FEET FROM FITTING – EACH WAY)
		90°	45°	22.5°	11.25°	
6		26	11	6	3	
8		33	14	7	4	
12		45	19	10	5	

DIP HORIZONTAL BENDS AND VERTICAL UP BENDS

PIPE SIZE (IN.)	RESTRAINED JOINT LENGTH L	BENDS				(MINIMUM DISTANCE IN FEET FROM FITTING – EACH WAY)
		90°	45°	22.5°	11.25°	
12"	68	28	14	7		144
24"	118	49	24	12		258

DIP VERTICAL DOWN BEND

PIPE SIZE (IN.)	RESTRAINED JOINT LENGTH L	BENDS				(MINIMUM DISTANCE IN FULL FROM FITTING – EACH WAY)
		90°	45°	22.5°	11.25°	
12"	144	60	29	14		
24"	258	107	51	25		

RESTRAINED JOINT INFORMATION

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	RESTRAINED JOINT INFORMATION
		SCALE: N.T.S.	APPROVED BY: CITY ENGINEER DATE: MAY 2022 DWG. NO. 515-2

MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED
(SUPERSEDES EBAA IRON RESTRAINT LENGTH CALCULATION PROGRAM FOR THE PIPE, RELEASE 3.0, AND DIPRA THRUST RESTRAINT FOR DUCTILE IRON PIPE, RELEASE 3.02)

FITTING TYPE		PIPE SIZE						CODE#				
		4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"
90° HORIZ. BEND		4	6	8	10	12	13	15	16	18	21	26
45° HORIZ. BEND		2	3	4	5	6	7	8	8	9	11	13
22.5° HORIZ. BEND		1	2	2	2	3	3	4	4	4	5	6
11.25° HORIZ. BEND		1	1	1	1	1	2	2	2	2	3	3
90° VERT. DOWN BEND	UPPER PIPE	39	49	63	84	74	95	105	116	126	148	179
	LOWER PIPE	7	10	13	18	19	23	30	35	39	49	60
45° VERT. DOWN BEND	UPPER PIPE	12	16	24	35	34	46	58	69	80	104	134
	LOWER PIPE	2	4	5	7	8	10	13	16	19	23	31
22.5° VERT. DOWN BEND	UPPER PIPE	4	5	10	14	17	19	25	27	43	46	58
	LOWER PIPE	1	2	4	4	5	5	7	7	11	12	16
11.25° VERT. DOWN BEND	UPPER PIPE	1	2	3	5	7	7	11	11	21	24	31
	LOWER PIPE	1	1	1	2	2	2	3	3	5	6	7
PLUG (DEAD END)		33	45	58	95	83	107	129	151	174	249	319
FLANGE GASKET		32	45	65	85	95	115	135	156	176	218	280
11¼° (BRONZE RESTRAINED)	4"x 4"	31	–	–	–	–	–	–	–	–	–	–
	6"x 4"	38	35	–	–	–	–	–	–	–	–	–
	6"x 6"	31	43	61	–	–	–	–	–	–	–	–
	8"x 4"	41	39	42	–	–	–	–	–	–	–	–
	8"x 6"	18	32	49	68	–	–	–	–	–	–	–
	8"x 8"	31	30	44	60	68	–	–	–	–	–	–
	10"x 4"	7	26	40	55	67	80	–	–	–	–	–
	10"x 6"	7	21	36	50	63	86	106	–	–	–	–
	10"x 8"	5	16	29	43	57	80	101	–	–	–	–
	10"x 10"	4	14	24	38	52	74	96	117	138	–	–
	12"x 4"	4	20	34	48	61	74	87	100	113	138	–
	12"x 6"	3	15	29	43	56	80	100	121	142	183	–
	12"x 8"	3	11	24	38	51	74	95	116	137	178	–
	12"x 10"	2	10	20	34	47	70	91	112	133	174	–
	12"x 12"	2	9	19	33	46	69	90	111	132	173	–
22½° (BRONZE RESTRAINED)	4"x 4"	13	–	–	–	–	–	–	–	–	–	–
	6"x 4"	16	15	–	–	–	–	–	–	–	–	–
	6"x 6"	13	18	26	–	–	–	–	–	–	–	–
	8"x 4"	17	16	18	–	–	–	–	–	–	–	–
	8"x 6"	8	14	21	29	–	–	–	–	–	–	–
	8"x 8"	13	13	19	25	29	–	–	–	–	–	–
	10"x 4"	3	11	17	23	28	34	–	–	–	–	–
	10"x 6"	3	9	15	21	27	34	45	–	–	–	–
	10"x 8"	2	7	12	18	24	31	43	–	–	–	–
	10"x 10"	2	6	10	16	22	31	41	50	59	–	–
	12"x 4"	2	9	14	20	26	31	37	43	48	59	–
	12"x 6"	1	6	12	18	24	34	43	52	61	78	–
	12"x 8"	1	5	10	16	22	31	41	50	59	76	–
	12"x 10"	1	4	9	14	20	30	39	48	57	74	–
	12"x 12"	1	4	8	14	20	29	38	48	57	74	–
MINIMUM (LARGER PIPE RESTRAINED)	4"x 4"	13	–	–	–	–	–	–	–	–	–	–
	6"x 4"	22	20	40	–	–	–	–	–	–	–	–
	6"x 6"	13	18	26	35	45	–	–	–	–	–	–
	8"x 4"	113	106	102	100	99	98	–	–	–	–	–
	8"x 6"	68	64	61	59	58	57	56	–	–	–	–
	8"x 8"	68	64	61	59	58	57	56	55	–	–	–
200psi	10"x 4"	208	204	197	188	177	163	148	131	–	–	–
	10"x 6"	241	229	223	220	217	196	168	135	114	–	–
	10"x 8"	273	270	265	259	252	229	201	169	133	57	–
	10"x 10"	307	298	290	282	268	242	208	170	128	38	–
	12"x 4"	208	204	197	188	177	163	148	131	–	–	–
	12"x 6"	241	229	223	220	217	196	168	135	114	–	–
	12"x 8"	273	270	265	259	252	229	201	169	133	57	–
	12"x 10"	307	298	290	282	268	242	208	170	128	38	–
	12"x 12"	307	298	290	282	268	242	208	170	128	38	–

NOTES:
1. VALUES SHOWN IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
TEST PRESSURE=150 PSI/200 PSI DEPTH OF BURY=3'
TRENCH TYPE=4 SAFETY FACTOR=2.0 VERTICAL OFFSET=3'
SOIL TYPE=SAND SLIT, SOIL TYPE 4
2. THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
4. RESTRAINED PIPE LENGTHS APPLY TO TYPE ON BOTH SIDES OF VALVES AND FITTINGS.

RESTRAINED JOINT INFORMATION

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	RESTRAINED JOINT INFORMATION
		SCALE: N.T.S.	DATE: FEBRUARY 2022 DWG. NO. 515-3

APPROVED PRODUCT LIST

Valve Boxes & Risers: Valve boxes shall either be a **Tyler** or **Turnbull** riser specified or an Approved equal which shall meet the following standards:

- The gap between the cover/lid and the ring that is visible when installed must be no greater than 0.11 inches.
- The wall thickness of the ring that encircles the cover/lid shall have a wall thickness of no less than 0.65 inches.
- The valve box top shall weigh no less than 22 pounds.
- The valve box bottom shall weigh no less than 27 pounds.
- The valve box lid shall weigh no less than 11 pounds.
- The 1" riser shall weight 6 pounds, 2" 9.5 pound, 3" 14 pounds and 4" 20 pounds.
- The valve box lid shall be a non - locking design with two indentations to allow for easy removal.
- The brand of valve box bid shall have an option extension kit. The weight of the extension kits shall be +/- 29 lbs for 14 inches, +/- 30 lbs for 18 inches and +/- 37 lbs for 24 inches.
- Recognizing that some manufacturers may make conforming and non-conforming boxes, or risers vendors bidding such a manufacturer are advised to avoid shipping the incorrect part. The City reserves the right to return ***at any time*** any box delivered that is non-conforming. If the non-conforming box was installed, the vendor will be responsible for the cost of removal and installation of the conforming box. Depending on the severity and frequency of this type of oversight bidders may be restricted from future bids.

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	APPROVED PRODUCT LIST
		SCALE: N.T.S.	DATE: SEP 2022 DWG. NO. 520-1

DIP Fittings: Mega lugs and their accessory kits shall be as manufactured by **EBAA Iron, Inc.** or an approved equal which shall meet the following Standards:

- Each gland shall include one mechanical restraining gland as manufactured by EBAA Iron, Inc, Series 1100, or equal, sacrificial zinc anode hex head caps of one - half of the number of T- head bolts in each gland pack, one rubber gasket and the proper number of T - head bolts and nuts for the mechanical joint sizes shown on the order.
- For sizes 4 to 12 inches, package all gland materials to make one joint and mark each package to specify its weight and contents.
- Each gland shall be clearly marked with a "batch serial number". The "batch serial number" will allow the utility to identify the date of manufacture, plant and identify what ladle of metal was used to cast the gland. The vendor must be able to provide metallurgical reports for any specific gland based on the "batch serial number" that must be cast into the gland.The "batch serial number" must not be encoded and easily converted using common methods, such as the Julian Day.
- Each restraining gland shall have the following weights and have no less than the number wedges listed below. All wedges will be "auto - torquing" or designed such that the nut on the actuating bolt will separate at the manufacturers intended torque for to properly set the wedge. After being set, the actuating bolts will have a smaller remaining head that will allow for the disassembly of the joint.

Size	Minimum Weight	Number of Wedges	¾" Bolt Length
4	7	2	4
6	12	3	4
8	16	3	4.5
10	24	6	4.5
12	33	8	4.5

- The restraining gland shall be properly prepared and coated with a TGIC polyester - based coating. The gripping wedges and actuating bolts shall be properly prepared and coated with a Xylan Flourpolymer coating.

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	APPROVED PRODUCT LIST
		SCALE: N.T.S.	DATE: SEP 2022 DWG. NO. 520-2

Offsets, Couplings etcetera shall be as manufactured by **Tyler Products**
Or an approved equal which shall meet the following standards:

The equivalent to the ELLS, 45, offsets, couplings, etcetra that are called for in various bids shall be the Tyler Product line. Equivalents shall have the same dimensions, bolt counts and certifications as the Tyler product line.

Flange Adapters shall be as manufactured by Uniflang or EZ Flange or
An approved equal which shall meet the following standards:

- Each fitting shall be clearly marked with a "batch serial number. The "batch serial number" will allow the utility to identify the date of manufacture, plant and identify what ladle of metal was used to cast the gland. The vendor must be able to provide metallurgical reports for any specific fitting based on the "batch serial number" that must be cast into the gland.The "batch serial number" must not be encoded and easily converted using common methods, such as the Julian Day.
- Each restraining fitting shall have the weights listed below.
- Set bolts will be "auto - torquing" or designed such that the nut on the actuating bolt will separate at the manufacturers intended torque for to properly set the wedge. After being set, the actuating bolts will have a smaller remaining head that will allow for the disassembly of the joint.

Size	Minimum Weight
4	6.3
6	8.8
8	12.9
10	23.1
12	29.5

- The fitting shall be properly prepared and coated with a TGIC polyester - based coating. The gripping wedges and actuating bolts shall be properly prepared and coated with a Xylan Flourpolymer coating.

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	APPROVED PRODUCT LIST
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 520-3

BTE REF DATE: 2-21-2024

#	DATE	REVISIONS

STEPHEN F. BOTEK LICENSE No. 55335 STATE OF FLORIDA PROFESSIONAL ENGINEER

February 27, 2024

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY STEPHEN F. BOTEK, P.E. ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Celebrating 15 Years

WATER AND SANITARY SEWER DETAILS

POMPANO HOTEL
101 SOUTH OCEAN BOULEVARD
POMPANO BEACH, FL

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BTE PROJECT #: 23-0701

PROJECT DATE: 09-05-2023

SHEET #: C-7

Stephen Botek
Digitally signed by Stephen Botek
Date: 2024.02.27 13:16:42 -05'00'

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