



CONSTRUCTION STANDARDS

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CONTACT LIST

Main Office: Phone: 941-474-3217
 Fax: 941-460-1025
 Email: info@englewoodwater.com

Main Office Address: 201 Selma Avenue
 Englewood, FL 34223

Main Office Working Hours: Tuesday – Friday 7:00 AM – 5:00 PM

Depending on the nature of your request, please contact the following personnel:

Subject:	Name:	Office:	Cell:	Email:
Inspection/Meeting Coordination	Mark Morris	941-460-1005	941-270-7958	mmorris@ewdf.com
Locates	Dave Lepage		941-270-2422	dlepage@ewdf.com
Distribution	Kyle Herzog	941-460-1047	941-786-4705	kherzog@ewdf.com
	John Adamson	941-866-2288	941-445-7089	jadamson@ewdf.com
Collections/Reuse	Ron Franklin	941-460-1046	941-628-4590	rfranklin@ewdf.com
	Rory Moser	941-460-1024	941-451-0298	rmoser@ewdf.com
Electrical	Darrell Walchle	941-460-1007	941-270-1016	dwalchle@ewdf.com
Engineering	Keith Ledford	941-460-1020		kledford@ewdf.com
	John Sedlock	941-460-1016		jsedlock@ewdf.com
Distribution Emergency	Call-out		941-270-0158	
Collections Emergency	Call-out		941-270-0100	

*** EWD requires at least 48 hours notice prior to beginning construction or any required testing/inspection.**

APPROVED PRODUCTS LIST

Item	Type	Manufacturer	Model	Size
Backflow Prevention Devices	Reduced Pressure	Wilkins Zurn	975 XL2	3/4" to 2"
			375	3" and >
	Reduced Pressure Detector Assembly (Fire Lines)		375 DA	3" and >
Coatings/Liners	Manhole/Lift Station (Internal Lining)	Green Monster	Polyurea Hybrid	125 mil
		Raven	Epoxy	
		IET	Polymorphic Resin	
	Manhole/Lift Station (External Coating)	Koppers	Coal Tar Epoxy Bitumastic 300M	30 mil
Corporation Stops	Brass	Ford	F1100-4-NL	1"
Curb Stops	Brass	Ford	GBV43-32-NL	3/4"
			B43-444W-NL	1"
			B11-777W-NL	2"
Fire Hydrant	Dry Barrel	American Flow Control	B-84-B-5 (Color Code: Green Lime 822910)	5-1/4"
Locating Devices *	Marker Ball	3M EMS	1403-XR (Water)	4" Dia. Sphere
			1404-XR (Sewer)	
			1408-XR (Reclaimed)	
	Foil Tape	Harris	DU Series	3"
Pipe *	PVC	Diamond (DPC) JM Eagle North American	DR-18 C-900 (Potable/Force Main/Reclaimed)	Project Specific
			SDR-26 (Gravity Sewer)	
			SDR-21 (Vacuum Main - White) (Vacuum Service Lateral - Green)	
	DI (Water - Concrete Coated) (Sewer - Epoxy Coated)	US Pipe American Pipe	AWWA C 151	
	HDPE	JM Eagle Charter Plastics	PE 4710/DR-9/IPS (Potable/Reclaimed) PE 4710/DR-11/IPS (Sewer)	
Pipe Fittings	PVC SCH 40/80/SDR 21	Charlotte Spears Canada	PVC SCH 40/80/SDR 21	Project Specific
	PVC SDR 26		PVC SDR 26	
	PVC C-900	Sigma Tyler Star	C-153 MJ	
	DI (Water - Concrete Coated) (Sewer - Epoxy Coated)		C-153 MJ Flanged	
	HDPE	JM Eagle Charter Plastics	Welded MJ Fittings	
Pumps	Submersible (Lift Station)	Flygt/Xylem	Project Specific	
Restraints	Bell	Star	1100 Series	Project Specific
		Sigma	PV Lok	
	Pipe	Star	Stargrip	
		Sigma	One Lok	
Service Saddles	Brass Strap	Ford	202B	4" and > (host pipe)
		AY McDonald	3826	
	Stainless Strap	Smith Blair	325	
Service Tubing *	Polyethylene	Charter Plastics Endot Industries	PE 4710 CTS	2" and <
Tapping Sleeve	Stainless Steel	Ford	FAST-MJ	4" and > (host pipe)
		Powerseal	3490MJ	
		JCM	439	
Valves	Gate (Epoxy Coated)	American Flow Control	Series 2500-1 w/ Stainless Stem	2" and >
	OS & Y (Epoxy Coated)			3" and >
	Insertion	TEAM	InsertValve RW-Gate	4" to 12"
Valve Boxes	Cast Iron (Adjustable)	Star	VBT 10S	18" to 24"
			VBT 16S	24" to 36"
Water Meters	Remote Read	Neptune	T-10 w/ R900i E-coder (in US gallons)	5/8" to 2"
			Mach 10 Ultrasonic w/R900i Ecoder (in US gallons)	3" and >
Water Meter Boxes	Cast Iron	Ford	G148-233-T-NL	5/8" Meters
		AY McDonald	772-2--BC2P 333	
	Plastic	DFW	DDFW1200121T	1" Meters (ONLY)

ALL ITEMS WITH * SHALL BE COLOR APPROPRIATE WATER - BLUE / GRAVITY SEWER & FORCE MAIN- GREEN / VACUUM SEWER - WHITE / RECLAIMED - PURPLE

Last Revised: 4/1/2024

GENERAL INFORMATION

A complete list of details can be found on our website www.inglewoodwater.com and should be used during installation.

Contractors should only use EWD signed and stamped approved construction plans during installation.

EWD must be onsite for ALL inspections (including final tie ins) with 48 hours advance notice.

All systems should be cleaned and pre inspected by the contractor prior to EWD onsite inspection.

A final walk through shall be performed by EWD prior to acceptance.

The Engineer on Record (EOR) must be present for pressure tests, camera inspections and walk throughs.

POTABLE WATER

INSTALLATION

- A temporary construction meter assembly shall be required to provide water to the project. Small temporary construction meters (2") shall be provided, installed and backflow tested by EWD. Large temporary construction meters (3" or >) shall be provided, installed and backflow tested by the developer/contractor. Applications can be found on our website.
- All permanent water meters 2" and smaller shall be provided and installed by EWD.
- All permanent water meters 3" and larger shall be provided and installed by the developer/contractor.
- All open trenched mains shall be DR-18 C-900 PVC and blue in color.
- All directional drilled mains shall be PE 4710/DR-9/IPS HDPE with blue stripe indicator.
- All tapping sleeves shall be full wrap stainless steel MJ style. All potable water main taps shall be completed by EWD.
- All gate valves shall be American Flow Control epoxy coated gate valves with stainless steel stems.
- All fire hydrants shall be 5-1/4" American Darling hydrants.
- All service lines shall be polyethylene and blue in color.
- All meter boxes shall be a Ford Gulfbox (w/ locking antenna lid) and marked by a blue wooden stake and a "W" stamp at the curb.
- All open trenched mains shall have detector tape as well as a locator device installed at fittings resulting in change of direction, repair points and caps.
- All directional drilled mains shall have tracer wire.

TESTING

- All tapping sleeves/valves shall be pressure tested @ 150 psi for 1 hour (no allowable loss) using a 200 psi liquid filled gauge with 2 PSI increments (see test gauge detail).
- All potable systems shall be pressure tested @ 150 psi for 2 hours (allowable loss varies) using a 200 psi liquid filled gauge with 2 PSI increments (see test gauge detail).
- All potable systems shall be disinfected with a chlorine solution that is between 25 ppm and 100 ppm. EWD to verify residual onsite during initial chlorination as well as after a 24 hour contact period in which chlorine residuals shall be at least 10 ppm or greater.
- All potable systems shall be tested by bacteriological survey (BAC-T) after disinfection. Passing BAC-T results expire after 60 days.

GRAVITY SEWER

INSTALLATION

- When a gravity main is connected to an existing manhole, the existing manhole shall be plugged until the project is approved by Florida Department of Environmental Protection (FDEP) to place into service.
- All gravity mains and sewer laterals shall be SDR-26 PVC and green in color.
- All manholes and gravity mains shall have a suitable bedding material (preferably 57 stone).
- All service laterals shall have a cleanout at the ROW which shall be cut down to finished grade prior to final walk thru inspection. Each cleanout shall be marked by a green wooden stake & an "S" stamp at the curb.
- All service lateral clean outs shall have a 24" X 24" X 4" concrete collar flush with finished grade elevation.
- All manholes (including flow channel troughs) shall be lined using an EWD approved liner.
- All gravity piping shall have detector tape and a locator device installed on all service wyes at the main and service lateral caps.

TESTING

- All gravity mains shall be air tested per the calculations provided by the engineer on record (allowable loss varies).
- Each manhole shall receive 5 gallons of clean water (witnessed by EWD) prior to camera inspection.
- All gravity mains shall be camera inspected and recorded in an upstream direction (allowable water depth not to exceed 10% of pipe diameter). Service laterals subject to camera inspection upon EWD request.
- All gravity mains shall be mandrel tested. Mandrel size shall be determined using a 5% deflection gauge.

FORCED SEWER

INSTALLATION

- All lift stations shall have a suitable bedding material (preferably 57 stone).
- All open trenched mains shall be DR-18 C-900 PVC and green in color.
- All directional drilled mains shall be PE 4710/DR-11/IPS HDPE with green stripe indicator.
- All tapping sleeves shall be full wrap stainless steel MJ style. All force main taps shall be completed by the contractor and witnessed by EWD.
- All gate valves shall be American Flow Control epoxy coated gate valves with stainless steel stems.
- All open trenched mains shall have a locator device installed at fittings resulting in change of direction, repair points & caps.
- All direction drilled mains shall have tracer wire.

TESTING

- All tapping sleeves shall be pressure tested at a min. of 100 psi for 1 hour (no allowable loss) using a 200 PSI liquid filled gauge with 2 PSI increments.
- All mains shall be pressure tested at a min. of 100 psi for 2 hours (allowable loss varies) using a 200 PSI liquid filled gauge with 2 PSI increments.
- All EWD owned lift stations shall have a scheduled start up performed with the pump manufacturer, Dataflow representative, contractor, EOR and EWD onsite.
- All private lift stations may also be required (by FDEP) to have a start up completed in which case EWD will only need to be onsite for force main valve operation.

VACUUM SEWER

INSTALLATION

- All mains shall be SDR 21 PVC white in color and all vacuum service laterals shall be SDR 21 PVC green in color.
- All other vacuum system installation shall be per AirVac specifications.

TESTING

- All main and valve pit testing shall be per AirVac specifications.
- When available, testing equipment (vacuum trailer and chart recorder) may be rented from EWD for field testing.

RECLAIMED WATER

INSTALLATION

- All open trenched mains shall be DR-18 C-900 PVC and purple in color.
- All directional drilled mains shall be PE 4710/DR-9/IPS HDPE with purple stripe indicator.
- All gate valves shall be American Flow Control epoxy coated gate valves with stainless steel stems.
- All tapping sleeves shall be full wrap stainless steel MJ style. All reclaimed water taps shall be completed by the contractor and witnessed by EWD.
- All open trenched mains shall have detector tape as well as a locator device installed at fittings resulting in change of direction, repair points and caps.
- All directional drilled mains shall have tracer wire.

TESTING

- All tapping sleeves/valves shall be pressure tested @ 150 psi for 1 hour (no allowable loss) using a 200 PSI liquid filled gauge with 2 PSI increments (see test gauge detail).
- All mains shall be pressure tested @ 150 psi for 2 hours (allowable loss varies) using a 200 PSI liquid filled gauge with 2 PSI increments (see test gauge detail).

FINAL CERTIFICATION

After installation, testing and inspection is completed and approved by EWD, the EOR shall submit the Certification of Construction Completion Package to EWD. The package shall contain all the items found on the Property Development EWD Submittal Package List which can be found on our website. Once the package is approved by EWD, the EOR shall submit the necessary documents to the Florida Department of Environmental Protection (FDEP) for approval. Once FDEP has approved the system(s) to be placed into operation, the contractor shall schedule the final system connection(s) and removal of any sewer plugs.



Englewood Water District

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www.inglewoodwater.com