

**ST. JOHNS COUNTY UTILITY DEPARTMENT
APPROVED MATERIALS AND CHECKLIST**

SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
PIPE				
Ductile Iron Pipe (Lining: Cement mortar w/NSF-61 sealcoat for PW & RW), Domestic Manufacture				
4" & Larger	American Cast Iron Pipe Co.	Fastite Joint	_____	_____
	McWayne	Tyton Joint	_____	_____
	U.S. Pipe	Tyton Joint	_____	_____
PVC Pressure Pipe - DR18, C900-16, Color-coded: BLUE -Water, GREEN -Sewer, PURPLE -Reuse, Domestic Manufacture				
4" - 12"	Diamond Plastics	_____ W _____ S _____ R	_____	_____
	JM Eagle	_____ W _____ S _____ R	_____	_____
	National Pipe & Plastics	_____ W _____ S _____ R	_____	_____
	Westlake Pipe & Fittings	_____ W _____ S _____ R	_____	_____
	Sanderson Pipe	_____ W _____ S _____ R	_____	_____
PVC Pressure Pipe - DR18, C900-16, Color-coded: BLUE -Water, GREEN -Sewer, PURPLE -Reuse, Domestic Manufacture				
16"	JM Eagle	_____ W _____ S _____ R	_____	_____
	National Pipe & Plastics	_____ W _____ S _____ R	_____	_____
	Westlake Pipe & Fittings	_____ W _____ S _____ R	_____	_____
PVC Pressure Pipe - DR25, C900-16, Color-coded: BLUE -Water, GREEN -Sewer, PURPLE -Reuse, Domestic Manufacture				
20" - 36"	JM Eagle	_____ W _____ S _____ R	_____	_____
	National Pipe & Plastics	_____ W _____ S _____ R	_____	_____
	Westlake Pipe & Fittings	_____ W _____ S _____ R	_____	_____
HDPE Pressure Pipe - DIPS ONLY, PE 4710, DR11, C906, Color-coded: BLUE -Water, GREEN -Sewer, PURPLE -Reuse, Domestic Manufacture				
4" - 24"	Flying W	_____ W _____ S _____ R	_____	_____
	JM Eagle	_____ W _____ S _____ R	_____	_____
4" - 36"	Performance Pipe	_____ W _____ S _____ R	_____	_____
	Pipeline Plastics	_____ W _____ S _____ R	_____	_____
	WL Plastics	_____ W _____ S _____ R	_____	_____
Fusible PVC - DR18, Color-coded: BLUE -Water, GREEN -Sewer, PURPLE -Reuse				
4" -24" (NOTE: Use restrictions apply. See Section 2.2.1 of this manual.)		Underground Solutions	_____ W _____ S _____ R	_____
PVC Gravity Sewer Pipe - SDR26 only, Color-coded: GREEN -Sewer				
4" - 15"	Diamond Plastics		_____	_____
	JM Eagle		_____	_____
	National Pipe & Plastics	N/A	_____	_____
	Westlake Pipe & Fittings		_____	_____
	Sanderson Pipe		_____	_____

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<u>Polyethylene Tubing, PE 4710, AWWA C901, SDR9, CTS, Color-coded: BLUE-Water, GREEN-Sewer, PURPLE-Reuse, Domestic manufacture.</u>				
2" & Smaller	WL Plastics	_____ W _____ S _____ R	_____	_____
	Endot	_____ W _____ S _____ R	_____	_____
<u>Stainless Steel Pipe, 316L, Schedule 40. Domestic manufacture preferred.</u>				
1/2" - 12"	Brismet		_____	_____
	SeAH Steel		_____	_____
	Texas Pipe & Supply	N/A	_____	_____
	Sun Mark Stainless		_____	_____
	Felker Brothers		_____	_____
<u>Brass Pipe, ASTM B43, Standard O61, Schedule 80, threaded, seamless. Domestic manufacture preferred.</u>				
1/2" - 12"	Merit Brass		_____	_____
	Matco Norca	N/A	_____	_____
	McMaster-Carr		_____	_____
<u>Casing Pipe, Steel, 0.25" ASTM A-36, 35,000psi</u>				
Varies	To be submitted		_____	_____

FITTINGS

<u>Brass Fittings, Threaded, ASTM B584, 250lb, No lead, Domestic Manufacture</u>				
1/2" - 2"	Lansdale Valve		_____	_____
	Merit Brass	NA	_____	_____
	McMaster-Carr		_____	_____
<u>Stainless Steel Fittings, 316 SS, 150 lb FLG or threaded. Domestic manufacture preferred.</u>				
3" - 12" If fabricated, MUST match ANSI/AWWA C110/A21.10 dimensions.	Merit Brass		_____	_____
	Texas Pipe & Supply	NA	_____	_____
	Matco Norca		_____	_____
<u>Ductile Iron Fitting, M.J. C153, Class 350 (Lining: Cement mortar w/NSF-61 sealcoat for PW & RW; epoxy for FM) Domestic manufacture preferred.</u>				
3" - 36"	Tyler Union		_____	_____
	Star Pipe Products		_____	_____
	Sigma Corporation		_____	_____
	SIP		_____	_____
	US Pipe		_____	_____

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<u>Ductile Iron Fitting, FLG, Flat Face Flanged (Lining: Cement mortar w/NSF-61 sealcoat for PW & RW; epoxy for FM) Domestic manufacture preferred.</u>				
3" - 36" (250 psi) ANSI/AWWA C110/A21.10 Dimensions	Tyler Union		_____	_____
	Star Pipe Products		_____	_____
	Sigma Corporation		_____	_____
	SIP		_____	_____
	US Pipe		_____	_____
<u>Lining for DI Forcemain Fittings</u>				
NA	Induron Coatings	Protecto 401	_____	_____
	Permox	CTF	_____	_____
	Tnemec	Pota Pox Series 20	_____	_____
<u>PVC Fittings for Gravity Sewer, SDR26 & Molded only, ASTM D-3034, Domestic manufacture.</u>				
4" - 12"	Multi-fittings/HARCO		_____	_____
	Westlake Pipe/Plastic Trends	H-Series	_____	_____
	GPB-Heavy Wall		_____	_____
<u>Detectable Tape, 5 mil thickness, Color-coded: BLUE-Water, GREEN-Sewer, PURPLE-Reuse.</u>				
3"	Pro-Line		_____	_____
	Christy's		_____	_____
	Harris		_____	_____
<u>HDPE Stiffeners, 14 gauge, 18-8 Type 304SS</u>				
Varies	Cascade	CPS	_____	_____
	JCM	230	_____	_____
	Ford	Insert 5x	_____	_____
<u>Tapping Sleeve, Stainless Steel, Size on Size taps shall be pre-approved.</u>				
3" Tap & Larger	JCM	Model 432, SS	_____	_____
4" - 8" (250 psi)	Romac	SST (for DI & PVC)	_____	_____
10" - 24" (200 psi)	Romac	SST-H (for HDPE)	_____	_____
4" - 24" pipe; 3" - 12" tap	Ford Meter Box	FAST-xxx-x-style for DI and PVC	_____	_____
4" - 24" pipe; 3" - 24" tap	Ford Meter Box	FTSS-xxx-x-style for DI and PVC	_____	_____
4" - 24" pipe; 3" - 12" tap	Ford Meter Box	FASTP-xxx-x-style for HDPE	_____	_____
4" - 24" pipe; 3" - 24" tap	Ford Meter Box	FTSSP-xxx-x-style for HDPE	_____	_____
4" - 24" pipe; 4" - 12" tap	Cascade	CST-EX	_____	_____
4"-30"	TPS	Triple Tap	_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>Tapping Saddle, Stainless Steel for Sewer</u>				
4" - 12" pipe; 2" tap	JCM Industries	502 Series	_____	_____
	A.Y. McDonald	73875 AWWA tap (PVC & DI)	_____	_____
	TPS	Series T3	_____	_____
	Ford Meter Box	FS313	_____	_____
	Smith-Blair	325	_____	_____
<u>Tapping Saddle, Potable and Reclaimed Water Service (PVC & DI)</u>				
4" - 12" pipe; 3/4" - 2" tap	JCM Industries	406 Series	_____	_____
	A.Y. McDonald	73875 AWWA tap	_____	_____
	Ford Meter Box	FC202-xxx-TAP Q	_____	_____
	Smith-Blair	317	_____	_____

VALVES

<u>Tag, 316 SS (5 lines: Valve size, type, service, direction and # of turns, and year installed)</u>				
2"	Big City Mfr		_____	_____
	Wagco	"less anchor"	_____	_____
<u>Ball Valve, 316SS, 1000 WOG, threaded</u>				
1" - 2"	Jamesbury	33R	_____	_____
	Matco Norca	20SSTHM	_____	_____
	Merit Brass	KV210FP	_____	_____
	FNW	100A	_____	_____
	Apollo	76F-100-A	_____	_____
<u>Corporation Stop</u>				
1/2" - 1"	A.Y. McDonald	74704B	_____	_____
	Ford Meter Box	F1000-xx-NL	_____	_____
1-1/4" - 2"	A.Y. McDonald	74704B	_____	_____
	Ford Meter Box	FB1000-x-NL	_____	_____
<u>Curb Stop, Straight Ball Yoke Valve</u>				
3/4" w/threaded lockring	Ford Meter Box	B94-324W-NL	_____	_____
	A.Y. McDonald	76102WY-22 (1 x 3/4 x 2)	_____	_____
1" w/threaded lockring	Ford Meter Box	B94-344W-NL	_____	_____
	A. Y. McDonald	76102WY-22 (1 x 1 x 4)	_____	_____
<u>Curb Stop Branch Assembly, Straight Ball Yoke</u>				
1" x 3/4"	Ford Meter Box	UVBS49-42W-NL	_____	_____
	A.Y. McDonald	709U2CW	_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>Curb Stop, w/Flange</u>				
1-1/2"	Ford Meter Box	BF43-666W-NL	_____	_____
	A. Y. McDonald	76100MW-22	_____	_____
2"	Ford Meter Box	BF43-777W-NL	_____	_____
	A. Y. McDonald	76100MW-22	_____	_____
<u>Gate Valve, MJ x MJ, C515, Class 250, 316SS Hardware</u>				
4" - 24"	Mueller	A-2361 RWGV	_____	_____
	VSI Waterworks	GVI	_____	_____
	M&H/Kennedy/Clow	7561	_____	_____
	American Flow Control	2500 w/ or w/o Alpha restrained joint	_____	_____
<u>Gate Valve, FLG x FLG, C515, Class 250, NRS, 316SS Hardware</u>				
4" - 24"	Mueller	A-2362 RWGV	_____	_____
	VSI Waterworks	GVII	_____	_____
	M&H/Kennedy/Clow	7561	_____	_____
	American Flow Control	2500	_____	_____
<u>Tapping Valve, FLG x MJ, C515, 316SS Hardware</u>				
4" - 24"	M&H	7950-01	_____	_____
3" - 12"	Mueller	T-2362	_____	_____
16" - 24"	Mueller	T-2361	_____	_____
4" - 24"	American Flow Control	Series 2500	_____	_____
<u>Valve Box and Cover, Cast Iron, 2-Piece Screw type, ASTM A48 Grade 30B, (Cover to be stamped "WATER", "SEWER", or "REUSE")</u>				
ALL Adjustable	Sigma	VB26 (1-8 for adjustable range)	_____	_____
	SIP	Series 6000	_____	_____
	Star	VB-0001	_____	_____
	McWane (Tyler Union)	32U-6850 or 6860	_____	_____
<u>Valve Locate Marker</u>				
3"	3M	1403-XR (BLUE-Water)	_____	_____
	3M	1404-XR (GREEN-Sewer)	_____	_____
	3M	1408-XR (PURPLE-Reuse)	_____	_____
<u>Insert-a-Valve</u>				
4" - 8"	ROMAC	310 Sleeve w/361 valve	_____	_____
10" - 12"		311 Sleeve w/358 valve	_____	_____
16" - 36"	Submittal & SJCUD Approval Special Case		_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>Marker</u>				
	Pro-Mark Utility Supply	PM-301	_____	_____
	Rhino Markers	TriView	_____	_____
ACCESSORIES & APPURTENANCES				
<u>Air Release/Vacuum Valve</u>				
2"	ARI	Model D-040 (Water)	_____	_____
	ARI	Model D-025L (Sewer)	_____	_____
	H-Tec	Model 989-00 PA66 (Sewer)	_____	_____
<u>ARV Cover with Lock</u>				
30"	EJ	COM320159A01	_____	_____
	Composite Access Products	CapOne-30 A-1BK30S4-S05DMDSS-H1	_____	_____
<u>ARV Enclosure</u>				
	Water Plus Corp	107-131632	_____	_____
<u>Fire Hydrant</u>				
5-1/4" pumper and 2 hose ports	American Flow Control	5-1/4" Waterous Pacer	_____	_____
	Alpha restrained joint preferred		_____	_____
	Mueller	Super Centurion 250 A423	_____	_____
	M&H	Style 129 or 129S	_____	_____
<u>Flushing Assembly, Programmable</u>				
2"	Mueller	Hydro-Guard HG-1 Basic/S	_____	_____
<u>Meter Box, HDPE (3/4" & 1" meter)</u>				
Water-Single (Black body, Blue lid)		37C-12-3T	_____	_____
Water-Double (Black body, Blue lid)	DFW	38C-14-3F(2)	_____	_____
Reuse-Single (Purple body, Purple lid)		37C5-12-5T	_____	_____
Reuse-Double (Purple body, Purple lid)		38C5-14-5F(2)	_____	_____
<u>Meter Box, HDPE (1½" & 2" meter)</u>				
Water (Black body, Blue lid)	DFW	65C-14-3T	_____	_____
Reuse (Purple body, Purple lid)		65C5-14-5T	_____	_____
<u>Meter Box, Polymer Concrete, Tier 8 Loading, 12" Vertical Extensions Available (See Wetwell Access Cover)</u>				
48"W x 72"L x 48"D		A6001506TAP48MT	_____	_____
48"W x 96"L x 48"D	Armorcast Products	A6001449TAP48MT	_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>External Joint Restraint, ASTM A536, Rated for pipe pressure, may be split, Domestic Manufacture Preferred</u>				
3" - 54"	EBAA Iron (US Mfr)	Megalug 1100 (DI)	_____	_____
3" - 12"	EBAA Iron (US Mfr)	Megalug 2000PV (HDPE)	_____	_____
3" - 36"	EBAA Iron (US Mfr)	Megalug 2000PV (PVC)	_____	_____
3" - 24"	Sigma	One-Lok SLCE (PVC)	_____	_____
3" - 36"	Sigma	One-Lok SLDE (DI)	_____	_____
3" - 48"	Star	Stargrip 3000 (DI)	_____	_____
3" - 36"	Star	Stargrip 4000 (PVC)	_____	_____
4" - 24"	SIP	EZ Grip PTPVCDI (DI)	_____	_____
4" - 24"	SIP	EZ Grip PTPDFxx (PVC)	_____	_____
4" - 36"	Ford Meter Box/Uniflange	UFR-1300-C (PVC)	_____	_____
4" - 36"	Ford Meter Box/Uniflange	Series 1500 (PVC & HDPE)	_____	_____
4" - 36"	Ford Meter Box/Uniflange	Series 1400 (DI)	_____	_____
<u>Bell Restraint, ASTM A536, Rated for pipe pressure, may be split, Domestic Manufacture Preferred</u>				
4" - 12"	EBAA Iron	1900 (PVC)	_____	_____
16" - 54"	EBAA Iron	2800 (PVC)	_____	_____
3" - 36"	EBAA Iron	1700 (DI)	_____	_____
4" - 48"	Sigma	PWP-C (PVC)	_____	_____
3" - 48"	Sigma	SLDEH	_____	_____
4" - 16"	SIP	EZ Grip PTPVCDI (DI)	_____	_____
4" - 24"	SIP	EZ Grip PTPVCxx (PVC)	_____	_____
4" - 12"	Star	Series 1100C (DI & PVC-Serration)	_____	_____
4" - 12"	Star	Series 1100G2C (DI & PVC-Serration)	_____	_____
4" - 24"	Ford Meter Box/Uniflange	Series 1350 or 1355 (PVC)	_____	_____
3" - 48"	Ford Meter Box/Uniflange	Series 1450 (DI)	_____	_____
<u>Restrained Coupling, Domestic Manufacture Preferred</u>				
4" - 36"	Ford Meter Box/Uniflange	RCDD (DI x DI)	_____	_____
4" - 36"	Ford Meter Box/Uniflange	RCPD (PVC x PVC)	_____	_____
4" - 36"	Ford Meter Box/Uniflange	RCDP (DI x PVC)	_____	_____
4" - 54"	EBAA Iron	3800 Mega-Coupling	_____	_____
<u>Internal Joint Restraint, Domestic Manufacture Preferred</u>				
4" - 12"	Rieberlok	(PVC)	_____	_____
4" - 24"	U.S. Pipe	Field Lok 350	_____	_____
4" - 24"	American	Fast-Grip (DI)	_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>Flanged Coupling Adapter, Domestic Manufacture Preferred, 316SS FLG Bolt Kit</u>				
3" - 12"	EBAA Iron	MegaFlange 1000 (DI)	_____	_____
3" - 36"	EBAA Iron	MegaFlange 2100 (PVC & DI)	_____	_____
3" - 36"	Sigma	SigmaFlange (PVC & DI)	_____	_____
3" - 36"	Star	3200 (DI)	_____	_____
3" - 36"	Star	4200 (PVC)	_____	_____
4" - 12"	Romac	Alpha FC	_____	_____
3" - 12"	Ford Meter Box/Uniflange	Series 200 (DI)	_____	_____
16" - 36"	Ford Meter Box/Uniflange	Series 400 (DI)	_____	_____
14" - 24"	Ford Meter Box/Uniflange	Series 900-C (PVC)	_____	_____
<u>Full Circle Repair Clamp</u>				
3" - 12"	Smith-Blair	226	_____	_____
16" - 24"	Smith-Blair	263	_____	_____
3" - 8"	Ford Meter Box	FS1 Series	_____	_____
10" - 16"	Ford Meter Box	FS2 Series	_____	_____
20" - 30"	Ford Meter Box	FS3 Series	_____	_____
3" - 12"	JCM Industries	131 or 161 Series	_____	_____
3" - 12"	Mueller Co.	540	_____	_____
3" - 24"	Mueller Co.	200	_____	_____
<u>Tracing Wire - Color coded</u>				
Open cut, 10 gauge, 30 mil coating	Copperhead	SuperFlex 1030	_____	_____
	Pro-line	Pro-trace HF-CCS PE30	_____	_____
HDD, 10 gauge, 45 mil coating	Copperhead	SoloShot EHS 1045	_____	_____
	Pro-line	Pro-trace Copper PE45	_____	_____
<u>Casing Spacer</u>				
4" - 24"	Ford Meter Box/Uniflange	UFRCS 1390 and 1300	_____	_____
	Cascade Waterworks	CCS	_____	_____
Varies	GPT/EnPro Ind	SS type or Ranger II	_____	_____
	CCI Pipe	CSS or CSP	_____	_____
<u>Service Saddle</u>				
2" & smaller	Cascade Waterworks Mfg.	CDS2/CDS-LD	_____	_____
	A.Y. McDonald	4835A	_____	_____
	Ford Meter Box	FC-202, 202BS	_____	_____
	Smith Blair	317	_____	_____
	Mueller	DR 25	_____	_____
	Power Seal	3417, 3409	_____	_____

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<u>MJ to MJ Adapter, Epoxy Coating, SBR Gaskets</u>				
4" - 36"	Infact Products	Foster Adapter	_____	_____
3" - 36"	Sigma	MJ Connector	_____	_____
3" - 24"	SIP	EZ Grip-CDMJEZ	_____	_____
3" - 36"	Star	MJ x MJ Adapter	_____	_____

STRUCTURES

<u>Precast Concrete</u>				
	Standard Precast		_____	_____
4' or 5' in diameter for manholes	Rinker Materials		_____	_____
6' - 12' in diameter for pump station wetwells	Old Castle Precast		_____	_____
	American Precast Structures		_____	_____
<u>Polymer Concrete</u>				
4' or 5' in diameter for manholes				
6' - 12' in diameter for pump station wetwells	Armorock	NA	_____	_____
<u>Concrete Sealant, 12 mil thick (Not needed on Polymer Concrete Structures)</u>				
NA	ConSeal	CS-55 Water Based Acrylic Coating	_____	_____
	Pro-Tec Coatings	EW1-Aquapoxy	_____	_____
<u>Joint Sealant, for manholes and wetwells</u>				
	ConSeal	CS-102	_____	_____
2" x 1"	Press-Seal	Pro-Stik	_____	_____
	Del Zotto	Sure Seal	_____	_____
<u>Exterior Joint Sealant Tape, for manholes and wetwells</u>				
	GPT	Boa-Tape	_____	_____
	ConSeal	CS-212 (0.065" thick)	_____	_____
6"	Press-Seal	EZ-Wrap Rubber	_____	_____
	GPT	Riser-Wrap	_____	_____
	CCI Pipe	WrapidSeal	_____	_____
<u>Flexible Connector</u>				
8" - 15"	Kor-N-Seal	S-106-xx	_____	_____
<u>Manhole Liner (Not needed on Polymer Concrete Structures)</u>				
	Raven		_____	_____
N/A	Sprayroq Spray Wall		_____	_____
	GML Green Monster		_____	_____
	Spectrashield		_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>Manhole Adjustment Rings, Interlocking Grade Rings w/ Sealant</u>				
1/2" - 6"	Cretex	Pro-ring	_____	_____
	Lad Tech	HDPE Rings	_____	_____
	EJ	Infra-riser	_____	_____
	Oldcastle Precast	MHGR	_____	_____
<u>Frame and Cover, 30" opening</u>				
TOP: ST. JOHNS COUNTY	US Foundry	655 ring & U cover	_____	_____
CENTER: SEWER	Composite Access Products	CapOne-30 A-1BK30S4-S05DMDSS-H1	_____	_____
BOTTOM: FLORIDA	(Use on all lined manholes)		_____	_____
<u>Inside Drop Bowl</u>				
8" - 18"	Duran, Inc.	Reliner	_____	_____

LIFT STATIONS

<u>Odor Control</u>				
	Hivent		_____	_____
<u>Check Valve, DI Body, 316SS Hardware, Flat Face Flanged, lever & spring, rubber disc facing</u>				
3" - 12"	GA Industries	340-S "Ludlow"	_____	_____
	VSI Waterworks	CVI	_____	_____
	Mueller/Milliken/ Pratt	A-2602-6-02B1	_____	_____
	DeZurik/ APCO	CVS,6000A,F1,S11, S2NB, NBR, SB16, LS	_____	_____
<u>Plug Valve, DI Body, 316SS Hardware, Flat Face Flanged, 2" operating nut</u>				
3" - 12"	GA Industries	B517 ECO-Centric	_____	_____
	VSI Waterworks	PVIF	_____	_____
	DeZurik/APCO	PEC 285 psi	_____	_____
	Mueller/ Milliken/Pratt	611	_____	_____
<u>Paint, Oil-based</u>				
	Rust-oleum	7524402 - Safety Blue	_____	_____
	Rust-oleum	7738402 - Hunter Green	_____	_____
		Purple-RGB: 186/156/197; Hex: #ba9cc5	_____	_____
<u>Wetwell Liner (Not needed on Polymer Concrete Structures)</u>				
NA	Raven	404, 405, 405FS	_____	_____
	GML Green Monster	Liner Extreme	_____	_____
	Spectrashield		_____	_____
	Agro-Liner	Approved for wetwells ONLY	_____	_____
<u>Pressure Gauge, (2" x 1/4") NPT BTM SS, 0-100 PSI/KPA, Glycerin filled</u>				
2" x 1/4" NPT	Winters	PFQ2205R1R5	_____	_____

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SIZE	MANUFACTURER	MODEL	ENG.	CONTR.
<u>Pressure Transducer</u>				
Water (0-100 psi)	Wika	C-10	_____	_____
Wastewater (0-100 psi)	Wika	UPT-20 w/ Ashcroft/330 All-Welded Flush	_____	_____
	Vega	Mini Seal B82.IXDS DAGGSZXAIJX	_____	_____
<u>Backflow Preventer, Reduced Pressure Zone (RPZ)</u>				
3/4" - 2"	Wilkins	975XL2	_____	_____
<u>Freeze Protection Valve</u>				
1/4"	Apollo	40LF-000-FPV1	_____	_____
1/2"	Robert Shaw	FP45	_____	_____
<u>Submersible Pump</u>				
	Flygt		_____	_____
	Grundfos		_____	_____
	Sulzer		_____	_____
<u>Wetwell Access Cover, Angle Frame, 300 lb/sf Loading, Double Door, Hold open arms, 316SS hardware</u>				
	USF Fabrication	APD300	_____	_____
	Halliday Products, Inc.	S1R	_____	_____
<u>Concrete Fiber Reinforcement, Macro Synthetic Fiber</u>				
4 lb/CY	Sika	FiberMesh 650	_____	_____
	Euclid	Tuf-Strand SF	_____	_____
	Forta Ferro	NA	_____	_____
<u>Engineer and Contractor Certification</u>				
As the Engineer of Record, I certify that only the approved materials listed above are proposed to be installed for this project.				
<div style="display: flex; justify-content: space-between; border-top: 1px solid black; padding-top: 10px;"> Print Name Date Signature and Seal </div>				
As the General Contractor, I certify that only the approved materials listed above are proposed to be installed for this project.				
<div style="display: flex; justify-content: space-between; border-top: 1px solid black; padding-top: 10px;"> Print Name Date Signature and Seal </div>				