

# CHARLOTTE COUNTY UTILITIES APPROVED PRODUCTS LIST (APL)

DATE PUBLISHED: July 12, 2024

## STANDARD SPECIFICATION SECTIONS

[Gravity Sewer System](#)

[Force Mains](#)

[Low Pressure Sewer System](#)

[Potable Water and Fire Hydrants](#)

[Reclaimed Water Mains](#)

[Standard Lift Station](#)

[Precast Concrete](#)

[Surface Preparation, Painting and Coating](#)

[Vacuum Sewer Collection System](#)

**Note:** This APL is effective on July 12, 2024 and is subject to change based on utility requirements with a new APL effective date. The products listed in this APL supersedes the approved products in the CCU Design Compliance Standards dated November 1, 2011 and all previous APLs. The intent is that this APL will be updated annually.

**IMPORTANT NOTICE:** By incorporating these items into a design, this does not relieve any liability by the Engineer of Record to ensure the items are appropriate for the project.

**Note to Manufacturers:** If CCU becomes aware of any changes to your products as they appear on the list, they may be considered for removal from the next updated APL and will require resubmittal to CCU for consideration.

**This APL requires all products to be produced and manufactured in the United States of America (USA) and verified through a standard shop drawing submittal review. Any products that do not comply and are requested for project use must be approved through a specific submittal process subject to CCU approval.**

**Further, brass above ground meter installation service materials not listed such as pipe adapters, nipples, reducers, meter couplings, ball valves, and elbows shall meet lead free certification to NSF 61/ANSI 372 standards. Due to limited availability, brass above ground meter installation service materials shall be temporarily exempted from the Made in USA requirement if they still meet the lead-free certification to NSF 61/ANSI 372 until further notice and shall be annually reviewed to continue the exemption.**

All approved products are listed in the most current CCU Approved Products List, which is posted on the County website. Any products not listed on this approved APL will be required to go through the CCU submittal process.

**002320 GRAVITY SEWER MAINS / 002340 VALVES / 002445 JACK AND BORE**

<b>Product</b>	<b>Type</b>	<b>Manufacturer</b>	<b>Model #</b>	<b>Size</b>	<b>Product Comments</b>
<b><i>Coupling</i></b>	Shear Ring	Max Adapter			
<b><i>Casing End Seal</i></b>	Casing End Seal	Cascade	CCES	Made to order	
		PSI	TYPE KT	Made to order	
		CCI	ESC	Made to order	
<b><i>Elastomeric Gasket</i></b>	(Manhole Boot)				As approved by CCU
<b><i>Hydrophilic Water Stop</i></b>		Swell Seal			Additional joint sealant
<b><i>Manhole External Coatings</i></b>	Coal Tar Epoxy	Whitlam / Plumb-Pro	Black Dragon		
	Water Based Epoxy	Pro-Tech	EW-1 AquaPoxy		
	Coal Tar Epoxy	Koppers	300M Carboline		
<b><i>Manhole Internal Coating</i></b>	Polymorphic Resin	IET	SYSTEM 3		
	Epoxy resin (monolithic)	Raven	Raven 405		
	Polyurethane coating	Spray Roq	Spraywall		
	Polyetheramine	GML Coatings	Green Monster		
	Polymorphic Resin	Restoration and Protective Solutions LLC.	Gas Guard 1000		
<b><i>Marker Tape</i></b>	Metallic Detectable Marking Tape	Pro-Line	SEWER	3"	
		Presco	SEWER	3"	
		Sigma	SEWER	3"	
<b><i>Marker, Electronic</i></b>	Sewer Ball	3M	1424-XR/ID	4"	
<b><i>Manhole Joint Seal, Circular</i></b>	Rubber Gasket		R-4		
<b><i>Manhole Joint Seal, Rectangular or Square</i></b>	Butyl Rubber	Conseal	CS-102	1-1/2"	
	Rubber Gasket		R-4		
<b><i>Manhole External Joint Wrap</i></b>	Butyl Rubber	Henry	RU-116	6" 9" 12"	
		Conseal	CS 212	6", 8", 12", 24", 36" 48"	
<b><i>Manhole Structural Internal Coating</i></b>	Pure-fused calcium aluminate mortar	Kerneos	SEWPERCOAT 2000HS		
		Madewell / Mainstay	ML-CA		
<b><i>Manhole Ring &amp; Cover (R&amp;C)</i></b>	Non-Hinged	U.S.Foundry	225 AS	25 3/4"	
	ARV Vault	U.S.Foundry	230-AA	32-1/8"	
	Hinged	Pamrex / Ergo	00104084L01		As approved by CCU

<b>Pipe</b>	Ductile Iron ( Push On Joint Type )	American Cast Iron Pipe (ACIPCO)	Fastite Pipe	4" to 60"	P401 epoxy coated
		Griffin	Tyton Joint	3" to 64"	P401 epoxy coated
		US Pipe	Tyton Joint	3" to 64"	P401 epoxy coated
	PVC 40 / 80	Westlake Pipe & Fittings (NAPCO)	PR - SCH 40 / 80	.5" to 3"	
		Silverline	PR - SCH 40 / 80	.5" to 3"	
		Charlotte Pipe and Foundry	PR - SCH 40 / 80	.5" to 3"	
	PVC SDR 26	Westlake Pipe & Fittings (NAPCO)	SDR 26	4" to 15"	
		Diamond Plastic Corporation (DPC)	SDR 26	4" to 15"	
		JM Eagle	SDR 26	4" to 36"	
		National Pipe and Plastics	SDR 26	4" to 48"	
	PVC DR 14/18	Westlake Pipe & Fittings (NAPCO)	DR 14 / 18	4" to 36"	
		Diamond Plastic Corporation (DPC)	DR 14 / 18	4" to 36"	
		JM EAGLE	DR 14 / 18	4" to 48"	
		National Pipe and Plastics	DR 14 / 18	4" to 48"	
	PVC Certa-Lok	Westlake Pipe & Fittings (NAPCO)		2" to 16"	As approved by CCU
<b>Pipe Fittings</b>	PVC 3034 (Gasketed)	Harco	SDR 26	4" to 15"	
		Multi Fittings	SDR 26	4" to 42"	
		Tigre-ADS USA	SDR 26	4" to 36"	
	PVC C900 (Gasketed)	Harco	C900	4" to 12"	
		Multi Fittings	BRUTE	4" to 48"	
		NACO / IPEX	C900Pressure Gasketed	4" to 36"	
<b>Pipe Lining</b>	Cured in place	Insituform of North America			
	PVC	As Approved by CCU		See Specification	
	Polyethylene	U-Liner		See Specification	
<b>Polyethylene Sleeve, DIP</b>	Polyethylene			Minimum 8 mil.	See Specifications
<b>Sewer Wye</b>	SDR 26	Multi Fittings	SDR 26	Various 4" to 10"	
<b>Spacer</b>	Casing	PSI	S	4" to 48" plus	
			C	4" to 48" plus	
			S8G-2	4" to 38" plus	
		Cascade	CCS	Made to order	
		CCI	CSS8	Made to order	

[Back to Table of Contents](#)

**002325 - FORCE MAINS / 002340 VALVES / 002445 JACK AND BORE**

Product	Type	Manufacturer	Model #	Size	Product Comments	
<b>Air Release Enclosure</b>	Polyethylene	PenCell Plastics/Hubbell	AGVNS-1420 Hasps Waste Water			
		Water Plus Corporation	131632			
<b>Air Release Enclosure, High Traffic Vulnerable Areas</b>	FRP-lined, Gel Coat Exterior, Concrete Base	Predl Systems North America Inc.	PREDL ARV Capsule	S 30" or L 42"	High Traffic Areas as Approved by CCU	
<b>ARV Manhole</b>					See Specifications	
<b>Coupling / Repair</b>	Compression Fitting	Universal Transition Coupling (UTC)				
	Hymax	Krausz	HYMAX	1.5" to 60"		
	Alpha	Romac		4" to 12"		
	Solid Sleeve FBE	Star		Solid Sleeve	4" to 48"	
		Sigma		Solid Sleeve	2" to 64"	
		Tyler/Union		Solid Sleeve	3" to 48"	
Shear Ring	Max Adapter					
<b>Casing End Seal</b>	Casing End Seal	Cascade	CCES	Made to order		
		PSI	TYPE KT	Made to order		
		CCI	ESC	Made to order		
<b>Flange Gasket</b>	Ductile Iron Pipe	American Cast Iron Pipe (ACIPCO)	Toruseal			
<b>Manhole External Coatings</b>	Coal Tar Epoxy	Whitlam / Plumb-Pro	Black Dragon			
	Water Based Epoxy	Pro-Tech	EW-1 AquaPoxy			
	Coal Tar Epoxy	Koppers	300M Carboline			
<b>Flow Meter</b>	Mag meter	Rosemount	As approved by CCU	Various		
<b>Manhole Internal Coating</b>	Polymorphic Resin	IET	SYSTEM 3			
	Epoxy resin (monolithic)	Raven	Raven 405			
	Polyurethane coating	Spray Roq	Spraywall			
	Polyetheramine	GML Coatings	Green Monster			
	Polymorphic Resin	Restoration and Protective Solutions LLC.	Gas Guard 100			
<b>Marker Tape</b>	Metallic Detectable Marking Tape	Pro-Line	SEWER	3"		
		Presco	SEWER	3"		
		Sigma	SEWER	3"		
<b>Marker, Electronic</b>	Sewer Ball	3M	1424-XR/ID	4"		
<b>Manhole Ring &amp; Cover (R&amp;C)</b>	Sub-Aqueous Crossing	U.S.Foundry	230-AA	32-1/8"		
	Hinged	Pamrex / Ergo	00104084L01	24"	As approved by CCU	
	Non-Hinged	U.S. Foundry	225 AS-1 Size	24" ID, 25 3/4" OD		
<b>Manhole Joint Seal, Circular</b>	Rubber Gasket		R-4			
<b>Manhole External Joint Wrap</b>	Butyl Rubber	Henry	RU-116	6" 9" 12"		
		Conseal	CS 212	6", 8", 12", 24", 36" 48"		
<b>Manhole Structural Internal Coating</b>	Pure-fused calcium aluminate mortar	Kerneos	SEWPERCOAT 2000HS			
		Madewell / Mainstay	ML-CA			

<b>Pipe</b>	PVC DR14 / 18	Westlake Pipe & Fittings (NAPCO)	DR 14 / 18	4" to 36"	
		Diamond Plastic Corporation (DPC)	DR 14 / 18	4" to 36"	
		JM EAGLE	DR 14 / 18	4" to 48"	
		National Pipe and Plastics	DR 14 / 18	4" to 48"	
	HDPE 3408, DIPS	Performance/Driscoplex	SDR 9 / 11	2" to 54"	
		JM Eagle	SDR 9 / 11	.5" to 63"	
W.L. Plastics		SDR 9 / 11	1/2" to 54"		
<b>Pipe Fittings</b>	Ductile Iron MJ or Flange	Sigma	MJ	2" to 64"	
		Sigma	FLANGED	2" to 64"	
		Star	MJ	2" to 64"	
		Star	FLANGED	2" to 64"	
		Tyler Union	MJ	2" to 64"	
		Tyler Union	FLANGED	2" to 64"	
	PVC C900 (Gasketed)	Harco		4" to 12"	
		Multi Fittings	BRUTE	4" to 48"	
		NACO / IPEX	C900 Pressure Gasketed	4" to 36"	
<b>Polyethylene Sleeve, DIP</b>	Polyethylene			Minimum 8 mil.	See Specifications
<b>Restraints</b>	Megalug DI / PVC	EBAA	1100 Series DI	3" to 54"	
		Star	4000G2 PVC Series	3" to 36"	
		Sigma	SERIES D-SLCE PVC	3" to 36"	
	Pipe / Bell / DI PVC	Star	1100 PVC Bell Restrainers	4" to 48"	
		Star	1000C / 1100C DI Bell Restrainers	4" to 48"	
		Sigma	PV LOK DI	4" to 42"	
		Sigma	PV LOK PVC	4" to 42"	
		EBAA	1600 / 2800 PVC	4" to 48"	
		EBAA	1500 / 1700 DI	4" to 48"	
		RieberLok Gaskets		4" to 24"	Warranty letter from pipe manufacturer required
<b>Spacer</b>	Casing	PSI	S	4" to 48" plus	
			C	4" to 48" plus	
			S8G-2	4" to 38" plus	
		Cascade	CCS	Made to order	
		CCI	CSS8	Made to order	
<b>Flange Adapters</b>	Epoxy, SS, W/Rest.	EBAA	MEGAFLANGE 2100 Ser.	3" to 48"	
		JCM	301 SERIES	3" to 12"	
		Romac	RFCA	3" to 12"	
<b>Tapping Sleeves</b>	Stainless Steel	Romac	SST III SERIES	4" to 30"	
		TPS Total Pipe Solutions	Triple Tap Extended Range		
		Powerseal	3490MJ/3940AS		
<b>Tracer Wire (for HDD)</b>	Copper-clad steel	Copperhead	Soloshot Extra-High Strength, 1045 CCS Tracer wire	#10 AWG (0.1019" diameter)	2,032 break load, 45 mil HDPE insulation
<b>Valve, Box</b>	CAST IRON / COMPOSITE	Bingham and Taylor		No. 18, 20,21,22	Screw Type Only
		Tyler/Union	6850 SERIES 461S	4" to 24"	Screw Type Only

<b>Valve, Box Lid</b>	Polymer Concrete	GlasMasters	Wastewater VBC7420-5-CCWW		Grass Areas
	Cast Iron	Tyler Union	(25 lbs.) DOM Deep Depth water valve lid		Pavement areas: Roadways above 45 mph
		Bingham and Taylor	(25 lbs.) DOM Deep Depth water valve lid		Pavement areas: Roadways above 45 mph
		Tyler Union	Standard Lid		Pavement areas: Roadways under 45 mph
		Bingham and Taylor	Standard Lid		Pavement areas: Roadways under 45 mph
<b>Valve, Plug</b>	Iron, MJ or FL	Dezurik		4" to 72"	100% port
		Golden Anderson		4" to 36"	100% port
		Kennedy		3" to 36"	100% port
<b>Valve, Air Release</b>	Waste Water	Val-Matic	200 Series	1/2" to 20" Combo	
		Val-Matic	48A W/BWA	2" to 4"	
		H-TEC	Model 986	2" to 8" Combo	
		ARI	D-025	2" - 3" - 4" Combo	
		ARI	D-020	2" to 8" Combo	

[Back to Table of Contents](#)

**002330 LOW PRESSURE SEWER SYSTEM / 002340 VALVES / 002445 JACK AND BORE**

Product	Type	Manufacturer	Model # / Size	Size	Product Comments
<b>Air Release Enclosure</b>	Polyethylene	PenCell Plastics/Hubbell	AGVNS-1420 Hasps Waste Water		
		Water Plus Corporation	131632		
<b>Air Release Enclosure, High Traffic Vulnerable Areas</b>	FRP-lined, Gel Coat Exterior, Concrete Base	Predl Systems North America Inc.	PREDL ARV Capsule	S 30" or L 42"	High Traffic Areas as Approved by CCU
<b>Box, Wastewater</b>		Hubbell (formerly CDR)	zite Gray Box - 3x1 Mouse Holes w/ Light Green C	15"x17"	
<b>Corporation stops</b>	Brass	Ford	FB1100-4-U-ANWT-NL	1" OR 2"	
		Mueller	B25024	1" OR 2"	
		A.Y. McDonald	74701BH	1" OR 2"	
<b>Curb Stops</b>	Brass	Ford	B43-342W-Q-NL 1" OR -B43-342W-Q-NL 2" Straight Valve Compression	1" Meter Swivel or 2" meter flange	
		Mueller	B24350N - Straight Valve Compression 1" meter B24335N - Straight Valve Compression 2" Flange	1" Meter Swivel or 2" meter flange	
		A.Y. McDonald	76100MWQ 1" OR 76100MWQ 2"- Straight Valve Compression	1" Meter Swivel or 2" meter flange	
<b>Casing End Seal</b>	Casing End Seal	Cascade	CCES	Made to order	
		PSI	TYPE KT	Made to order	
		CCI	ESC	Made to order	
<b>Clamps</b>	316 SS	Lawson	58844- 316 SS		
<b>Control Panels</b>	N/A	N/A	N/A		As approved by CCU
<b>Conduit</b>		IPEX		.5" to 2"	
		Scepter		.5" to 2"	
		Cantex		.5" to 2"	
<b>Cable Clamps</b>	Polypropylene	All-states	5-HPP	.3125"	
<b>Hose</b>	Flex Hose	Novaflex	Type 19	2 3/8"	
<b>Flange Gasket</b>	Ductile Iron Pipe	American Cast Iron Pipe (ACIPCO)	Toruseal		
<b>Float Hangars</b>	HACBHOPBCH CABLE HOLDER 316SS+ PBCH	Flygt	591022	1/2" and 3/16" hooks	
<b>HDPE Electrofusion Fittings</b>	Electrofusion	JM Eagle	EFC PE3408	4" to 60"	
		Georg Fischer	EFC PE3408	.5" to 26"	
<b>Floats</b>	Alarm	Anchor Scientific	M40NO		
	Load / Duty	Conery	MERCWA 90 degree wide angle		
<b>Marker, Electronic</b>	Sewer Ball	3M	1424-XR/ID	4"	
<b>Marker Tape</b>	Metallic Detectable Marking Tape	Pro-Line	SEWER	3"	
		Presco	SEWER	3"	
		Sigma	SEWER	3"	

<b>Pipe</b>	Field Lok Gaskets	JM Eagle	Eagle Loc 900 Sizes	4" to 12"	
		American Cast Iron Pipe (ACIPCO)	Amarillo Fast-Grip	4" to 30"	
		US Pipe	Field Lok Gasket	4" to 24"	
	PVC DR14 / 18	Westlake Pipe & Fittings (NAPCO)	DR 14 / 18	4" to 36"	
		Diamond Plastics Company (DPC)	DR 14 / 18	4" to 60"	
		JM EAGLE	DR 14 / 18	4" to 48"	
		National Pipe and Plastics	DR 14 / 18	4" to 48"	
	PVC Certa-Lok	Westlake Pipe & Fittings (NAPCO)		2" to 16"	As approved by CCU
	PVC 40 / 80	Westlake Pipe & Fittings (NAPCO)	PR, SCH 40 / 80	.5" to 3"	
		Silverline	PR, SCH 40 / 80	.5" to 3"	
		Charlotte Pipe and Foundry	PR, SCH 40 / 80	.5" to 3"	
	PVC SDR 26	Westlake Pipe & Fittings (NAPCO)	SDR 26	4" to 36"	
		Diamond Plastics Company (DPC)	SDR 26	4" to 60"	
		JM Eagle	SDR 26	4" to 36"	
		National Pipe and Plastics	SDR 26	4" to 48"	
	HDPE 3408, DIPS	Performance/Driscoplex	SDR 9 / 11	2" to 54"	
JM Eagle		SDR 9 / 11	.5" to 63"		
W.L. Plastics		SDR 9 / 11	1/2" to 54"		
<b>Pipe Fittings</b>	Ductile Iron MJ or Flange	Sigma	MJ	2" to 64"	
		Sigma	FLANGED	2" to 64"	
		Star	MJ	2" to 64"	
		Star	FLANGED	2" to 64"	
		Tyler Union	MJ	2" to 64"	
		Tyler Union	FLANGED	2" to 64"	
	PVC 40 / 80	Nibco/Lasco	SCH 40 / 80	Various	
		Spears	SCH 40 / 80	Various	
		FLO Control / NDS	SCH 40 / 80	Various	
		Charlotte Foundry	SCH 40 / 80	Various	
<b>Polyethylene Sleeve, DIP</b>	Polyethylene		Minimum 8 mil.	See Specifications	
<b>Pumps, LPS</b>	Effluent, High Head	Champion	CPE5 .5HP		
		Barnes	EH512L .5HP		
		Milwaukee	LE5-1 .5HP		

<b>Restraints</b>	Pipe / Bell PVC / DI	Star	1100 PVC Bell Restraints	4" to 48"	
		Star	1000C / 1100C DI Bell Restraints	4" to 48"	
		Sigma	PV LOK DI	4" to 42"	
		Sigma	PV LOK PVC	4" to 42"	
		EBAA	1600 / 2800 PVC Sizes 4" to 48"	4" to 48"	
	EBAA	1500 / 1700 DI Sizes 4" to 48"	4" to 48"		
	Megalug DI / PVC	EBAA	1100 Series DI	3" to 54"	
		Star	4000G2 PVC Series	3" to 36"	
Sigma		SERIES D-SLCE PVC	3" to 36"		
<b>Spacer</b>	Casing	PSI	S	4" to 48" plus	
			C	4" to 48" plus	
			S8G-2	4" to 38" plus	
		Cascade	CCS	Made to order	
		CCI	CSS8	Made to order	
<b>Stiffeners</b>	Service Tubing, CTS / LPS	Ford	50 / 70 STAINLESS STEEL	3/4" to 2"	
		Mueller	STAINLESS STEEL	3/4" TO 2"	
	HDPE	Romac	WEDGE TYPE	4" to 36"	LGR ON REQUEST
		Cascade	WEDGE TYPE	2" to 20"	LGR ON REQUEST
<b>Service Tubing Sewer</b>	PE 3408, CTS SDR9 (Green)	Endot	Endot PE 4710 Green	.5" to 2"	
		Charter Plastics	Charter PE 4710 Green	.75" to 2"	
<b>Service Fittings</b>	Brass	Ford	PACK JOINT/COMP/ INSTA-TITE		
		Mueller	PACK JOINT/COMP/ INSTA-TITE		
		A.Y. McDonald	PACK JOINT/COMP/ INSTA-TITE		
<b>Service Saddles</b>	Epoxy Double SS Strap / Band	Power Seal	3417DI	2" to 24"	
		Ford	FCD202	4" to 30"	
		Romac	202NS	2" to 30"	
<b>Tank, Low Pressure</b>	Fiberglass	Alpha	HD20	750/900 Gallons	LGR ON REQUEST
			CAT - 4	900AB/STEP C4	NON TRAFFIC BEARING AREAS ONLY
	HDPE	Infiltrator	CM - 1060, IM - 1060		IM - 1060 manufacture has ended
	Concrete/Commercial Only		Project Specific		
<b>Pump Chamber</b>		Alpha			
		Infiltrator / TOPPS			
<b>Valve, Box</b>	CAST IRON / COMPOSITE	Bingham and Taylor		No. 18, 20, 21,22	
		Tyler/Union	6850 SERIES 461S	4" to 24"	

<b>Valve, Box Lid</b>	Polymer Concrete	GlasMasters	Wastewater VBC7420-5-CCWW		Grass Areas
	Cast Iron	Tyler Union	(25 lbs.) DOM Deep Depth water valve lid		Pavement areas: Roadways above 45 mph
		Bingham and Taylor	(25 lbs.) DOM Deep Depth water valve lid		Pavement areas: Roadways above 45 mph
		Tyler Union	Standard Lid		Pavement areas: Roadways under 45 mph
		Bingham and Taylor	Standard Lid		Pavement areas: Roadways under 45 mph
<b>Valve, Check</b>	PVC, Flap	FLO Control / NDS	1520 Series	2"	
		Spears	S1520 Series	2"	
<b>Valve, Ball</b>	PVC, Ball	Hayward	TC100 SERIES	2"	
		Spears	2622 Series	2"	
		Proflo	PFPSBV Series	2"	

[Back to Table of Contents](#)

002332 VACUUM SEWER COLLECTION SYSTEM SYSTEM / 002340 VALVES / 002445 JACK AND BORE

Product	Type	Manufacturer	Model # / Size	Size	Product Comments
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TO BE DETERMINED

**002335 RECLAIMED WATER MAINS / 002340 VALVES / 002445 JACK AND BORE**

Product	Type	Manufacturer	Model #	Size	Product Comments
<b>Automatic Flush Device</b>	In Line	Eclipse / Kupferle	9400-WC (2" W/1' BURY)		
		Hydro-Guard / Mueller	HG-1-INT		
<b>Air Release Enclosure</b>	Polyethylene	PenCell Plastics/Hubbell	AGVNS-1420 Hasps Waste Water		
		Water Plus Corporation	131632		
<b>Air Release Enclosure, High Traffic Vulnerable Areas</b>	FRP-lined, Gel Coat Exterior, Concrete Base	Predl Systems North America Inc.	PREDL ARV Capsule	S 30" or L 42"	High Traffic Areas as Approved by CCU
<b>ARV Manhole</b>					See Specifications
<b>Backflow</b>	RPZ	Wilkins / Zurn / Rexnord	975XL	1/4" - 2"	
			Model 375 & 375AST	2-1/2" - 10"	
		Conbraco	40-200 / 200s / 700	1/4" - 10"	
		Watts	009 SERIES	1/4" - 2"	
957 SERIES	2-1/2" - 10"				
<b>Spacer</b>	Casing	PSI	S	4" to 48" plus	
			C	4" to 48" plus	
			S8G-2	4" to 38" plus	
		Cascade	CCS	Sizes made to order	
		CCI	CSS8	Sizes made to order	
<b>Casing End Seal</b>	Casing End Seal	Cascade	CCES	Sizes made to order	
		PSI	TYPE KT	Sizes made to order	
		CCI	ESC	Sizes made to order	
<b>Corporation Stops</b>	Brass	Ford	FBRW1700	3/4" to 2 1/2" TPPR.	needs to have the Ford Pack Joint nut connection piece added to make the connection to the service tube
			FBRW 1100	3/4" to 2"	
			FBRW 1101	3/4" to 2"	
		Mueller	B25024-20	3/4" to 1"	
		A.Y. McDonald	73149B	1" to 2"	for NPT and reclaimed water stamp
<b>Coupling / Repair</b>	Compression Fitting	Harco Fittings/Philmac	Universal Transition Coupling (UTC)	BxB, BxC, CxC	
		Elster / Honeywell	Hydrosert	3/4" to 2"	
	Solid Sleeve FBE	Sigma	Solid Sleeve	2" to 64"	
		Tyler/Union	Solid Sleeve	3" to 48"	
		Star	Solid Sleeve	4" to 48"	
		Max Adapter			
<b>Marker Tape</b>	Metallic Detectable Marking Tape	Pro-Line	REUSE	Size 3"	
		Presco	REUSE	Size 3"	
		Sigma	REUSE	Size 3"	
<b>Marker, Electronic</b>	Reclaim Ball	3M	1428-XR/ID	4"	
<b>Meter Box and Lid</b>	Reclaim	GlasMasters	Per most recent approved products by Utility from Glasmasters		

		Hubbell (formerly CDR)	Quazite Gray Box - 3x1 Mouse Holes w/ Purple Cover Pantone 522	15"x17"	
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<b>Motor Actuators</b>	Reclaim	Rotork	IQ3 range	2" to 24"	
<b>Reclaimed Meter</b>	Reclaim	METER PROVIDED BY UTILITY			
<b>Pipe</b>	Ductile Iron ( Push On Joint Type )	American Cast Iron Pipe (ACIPCO)	Fastite Pipe	4" to 60"	Purple Marked
		Griffin	Tyton Joint	3" to 64"	Purple Marked
		US Pipe	Tyton Joint	3" to 64"	Purple Marked
	Field Lok Gaskets	American Cast Iron Pipe (ACIPCO)	Amarillo Fast-Grip	4" to 30"	Purple Marked
		US Pipe	Field Lok Gasket	4" to 24"	Purple Marked
	PVC DR14 / 18	Westlake Pipe & Fittings (NAPCO)	DR 14 / 18	4" to 36"	Purple Marked
		Diamond Plastics Corporation (DPC)	DR 14 / 18	4" to 60"	Purple Marked
		JM EAGLE	DR 14 / 18	4" to 48"	Purple Marked
		National Pipe and Plastics	DR 14 / 18	4" to 48"	Purple Marked
	HDPE 3408, DIPS	Performance/Driscoplex	SDR 9 / 11	2" to 54"	Purple Marked
		JM Eagle	SDR 9 / 11	.5" to 63"	Purple Marked
		W.L. Plastics	SDR 9 / 11	1/2" to 54"	Purple Marked
<b>Pipe Fittings</b>	Ductile Iron MJ or Flange	Sigma	MJ	2" to 64"	
		Sigma	FLANGED	2" to 64"	
		Star	MJ	2" to 64"	
		Star	FLANGED	2" to 64"	
		Tyler Union	MJ	2" to 64"	
		Tyler Union	FLANGED	2" to 64"	
<b>Polyethylene Sleeve, DIP</b>	Polyethylene			Minimum 8 mil.	See Specifications
<b>Pressure Transducer</b>	Submersible				As approved by CCU
<b>Pressure Transducer</b>	Above ground	Rosemount	2088	4-20ma, 0-100psi	As approved by CCU
<b>Restraints</b>	Megalug DI / PVC	EBAA	2000PV Series PVC	3" to 48"	
		EBAA	1100 Series DI	3" to 54"	
		Star	4000G2 PVC Series	3" to 36"	
		Star	3000 DI Series	3" to 48"	
		Sigma	SERIES D-SLDE DI	3" to 48"	
		Sigma	SERIES D-SLCE PVC	3" to 36"	
	Pipe / Bell PVC / DI	Star	1100 PVC Bell Restrainers	4" to 48"	
		Star	1000C / 1100C DI Bell Restrainers	4" to 48"	
		Sigma	PV LOK DI	4" to 42"	
		Sigma	PV LOK PVC	4" to 42"	
		EBAA	1600 / 2800 PVC	4" to 48"	
		EBAA	1500 / 1700 DI	4" to 48"	
		ReiberLok Gasket		4" to 24"	Warranty letter from pipe manufacturer required
<b>Stiffeners</b>	Service Tubing, CTS	Ford	50 / 70 STAINLESS STEEL	3/4" to 2"	
		Mueller	STAINLESS STEEL	3/4" TO 2"	
	HDPE (purple)	Romac	WEDGE TYPE LGR ON REQUEST	4" to 36"	
		Cascade	WEDGE TYPE LGR ON REQUEST	2" to 20"	

<b>Service Tubing</b>	PE 3408, LPS SDR9 (Purple)	Endot	EndoPure PE-4710	.5" to 2"	Marked Purple
		Charter Plastics	Charter PE 4710 Purple	.75" to 2"	Marked Purple
		Vanguard / CB Supplies	BRUISER HDPE	.75" to 2"	Marked Purple
<b>Service Saddles</b>	Epoxy Double SS Strap / Band	Power Seal	3417DI	2" to 24"	
		Ford	FCD202	4" to 30"	
		Romac	202NS	2" to 30"	
<b>U-Branch</b>	Brass	Mueller	H15365	1"x3/4"x6-1/2"	
		Ford	U48-43-65-U-NL	1"x3/4"x6-1/2"	
		A.Y. McDonald	709UHFWRWT	1x3/4x6.5	
			709UHFWRWC	1x3/4x6.6	
			709UHFWRWT	1x3/4x6.7	
<b>Curb Stops for Reclaimed Water Services</b>	Brass	Mueller	H14267NRW - Angle Valve-Stab	1" Meter Swivel or 2" Meter Flange	
			H14258NRW - Angle Valve Compression	1" Meter Swivel or 2" Meter Flange	
			P14258NRW - Angle Valve Pack Joint	1" Meter Swivel or 2" Meter Flange	
			B24363NRW - Straight Valve -Stab	1" Meter Swivel or 2" Meter Flange	
			B24350NRW - Straight Valve Compression	1" Meter Swivel or 2" Meter Flange	
			P24350NRW - Straight Valve Pack Joint	1" Meter Swivel or 2" Meter Flange	
			FIP X RW Meter Swivel	1" Meter Swivel or 2" Meter Flange	
		Ford	BA43-342W-U-AWT-NLRW - Angle Valve-Stab	1" Meter Swivel or 2" Meter Flange	
			BA43-342W-Q-NLRW - Angle Valve Compression	1" Meter Swivel or 2" Meter Flange	
			BA43-342W-NLRW - Angle Valve Pack Joint	1" Meter Swivel or 2" Meter Flange	
			B43-342W-U-NL RW- Straight Valve -Stab	1" Meter Swivel or 2" Meter Flange	
			B43-342W-Q-NLRW - Straight Valve Compression	1" Meter Swivel or 2" Meter Flange	
			B43-342W-NLRW - Straight Valve Pack Joint	1" Meter Swivel or 2" Meter Flange	
BRW13-W-NL - FIP X Meter Swivel	1" Meter Swivel or 2" Meter Flange				

		AY McDonald	90 degree Curb stop Compression 74602BQ RWT	1"		
			90 degree Curb stop Compression 74602BQRWC or 74602BQRWT	2"		
			90 degree Curb stop Pack 74602B-22 RWT	1"		
			90 degree Curb stop Pack 74602B-22RWC or 74602B-22RWT	2"		
			90 degree Curb stop Stab 74602BH RWT	1"		
			90 degree Curb stop Stab 74602BHRWC or 74602BHRWT	2"		
			Straight Curb Stop Compression 76100MWQ RWT 1x3/4x3/4	1"		
			Straight Curb Stop Compression 76100MWQRWT or 76100MWQRWC	2"		
			Straight Curb Stop Stab 76100MWH RWT	1"		
			Straight Curb Stop Stab 76100MWHRWT OR 76100MWHRWC	2"		
			Straight Curb Stop Pack 76100MW-22 RWT	1"		
			Straight Curb Stop Pack 76100MW-22RWT OR 76100MW-22RWC	2"		
			Angle FIP x Meter Swivel 74604B RWT (3/4" - 2")	1"		
			Angle FIP x Meter Swivel 74604BRWT 2	2"		
			Straight FIP x Meter Swivel 76101MW RWT (3/4"-2")	1"		
			Straight FIP x Meter Swivel 76101WRWT 2 OR 76101WRWC 2	2"		
<b>Flange Adapters</b>	Epoxy, SS, W/Rest.	EBAA	MEGAFLANGE 2100 Ser.	3" to 48"		
		JCM	301 SERIES	3" to 12"		
		Romac	RFC A	3" to 12"		
<b>Flange Gasket</b>	Ductile Iron Pipe	American Cast Iron Pipe (ACIPCO)	Toruseal			
<b>Tracer Wire (for HDD)</b>	Copper-clad steel	Copperhead	Soloshot Extra-High Strength, 1045 CCS Tracer wire	#10 AWG (0.1019" diameter)	2,032 lb break load, 45 mil HDPE insulation	
<b>Valve, Box Lid</b>	Polymer Concrete	GlasMasters	Reclaim Water VBC7420-4-CCU		Grass Areas	
	Cast Iron	Tyler Union	(25 lbs.) DOM Deep Depth reclaimed water valve lid		Pavement areas: Roadways above 45 mph	
		Bingham and Taylor	(25 lbs.) DOM Deep Depth reclaimed water valve lid		Pavement areas: Roadways above 45 mph	
		Tyler Union	Standard reclaimed lid		Pavement areas: roadways below 45mph	
Bingham and Taylor	Standard reclaimed lid		Pavement areas: Roadways below 45 mph			

<b>Valve, Box</b>	CAST IRON / COMPOSITE	Bingham and Taylor		No. 18, 20, 21,22	Screw Type
		Tyler/Union	6850 SERIES heavy duty - domestic	Various	Screw Type
<b>Valve, Butterfly</b>	Iron, MJ or FL	Kennedy	4500 SERIES	4" to 24"	
		Dezurik	Dezurik BFV	3" to 36"	
		Mueller	LINE SEAL	3" to 48"	
<b>Valve, Check</b>	Iron, W&L	Kennedy	C508/1106LW	2" to 24"	
		Muller	A - 2600 SERIES	2" to 12"	
		AFC	SERIES 2100	3" to 16"	
<b>Valve, Air Release</b>	Reclaim / No Vacuum Permitted	ARI	S-021	1" to 2"	NO VACUUM
		Val-Matic	15A - 15A.3	2" to 6"	NO VACUUM
<b>Valve, Gate</b>	Iron, MJ or FL or Tapping	AFC	2500 / 2500-1 Series	2" to 36"	
		Mueller	A 2360 / 2361 Series	2" to 48"	
		Teams	Inserta Valve	4" to 12"	
		Clow	6100 Series	4" to 48"	
<b>Valve, Plug</b>	Iron, MJ or FL	Kennedy		3" to 36"	100% port
		Golden Anderson		4" to 36"	100% port
		Dezurik		4" to 72"	100% port
<b>Valve, Pressure Sustaining</b>		Cla-val	As approved by CCU		
		Ber-mad	As approved by CCU		

[Back to Table of Contents](#)

002335 POTABLE WATER MAINS / 002345 FIRE HYDRANTS / 002340 VALVES / 002445 JACK AND BORE

Product	Type	Manufacturer	Model #	Size	Product Comments
<b>Automatic Flush Device</b>	In Line	Eclipse / Kupferle	9400-WC (2" W/1' BURY)		
		Hydro-Guard / Mueller	HG-1-INT		
	Hydrant	Eclipse / Kupferle	9700 (Red)		
		Hydro-Guard / Mueller	HG-6		
<b>Air Release Enclosure</b>	Polyethylene	PenCell Plastics/Hubbell	AGVNS-1420 Hasps Water		
		Water Plus Corporation	131632		
<b>Air Release Enclosure, High Traffic Vulnerable Areas</b>	FRP-lined, Gel Coat Exterior, Concrete Base	Predl Systems North America Inc.	PREDL ARV Capsule	S 30" or L 42"	High Traffic Areas as Approved by CCU
<b>Backflow</b>	RPZ	Wilkins / Zurn / Rexnord	975XL	1/4" - 2"	
			Model 375 & 375AST	2-1/2" - 10"	
		Conbraco	40-200 / 200s / 700	1/4" - 10"	
		Watts	009 SERIES	1/4" - 2"	
	Double Detector	Watts	957 SERIES	2 1/2" - 10"	
		Watts	757DCDA	2 1/2" - 10"	
		Wilkins / Zurn / Rexnord	350 DAOSY	2 1/2" - 12"	
	Conbraco/ Apollo	As approved by CCU	3" - 10"		
<b>Spacer</b>	Casing	PSI	S Sizes	4" to 48" plus	
			C Sizes	4" to 48" plus	
			S8G-2	4" to 38" plus	
		Cascade	CCS	made to order	
		CCI	CSS8	made to order	
<b>Casing End Seal</b>	Casing End Seal	Cascade	CCES	made to order	
		PSI	TYPE KT	made to order	
		CCI	ESC	made to order	
<b>Corporation stops for water services</b>		Ford	FB1100-4-U-ANWT-NL	1" OR 2"	
		Mueller	B25024	1" OR 2"	
		A.Y. McDonald	73149B	1" OR 2"	
<b>Corporation stop &amp; Tapping Sleeve</b>	Glass Reinforced Polymer	Utility Supply Corporation	Tapper Main Stop Saddle: 200-ST_X_	3/4" or 1"	

<b>Curb Stops for Water Services</b>	Brass	Mueller	H14267N - Angle Valve-Stab 1" meter	1" Meter Swivel or 2" meter flange	
			H14258N - Angle Valve Compression 1" meter, OR B-24276N - Angle Valve Compression 2" Flange	1" Meter Swivel or 2" meter flange	
			P14258N - Angle Valve Pack Joint 1" meter , OR BFA43777WNL - Angle Valve Pack Joint 2" Flange	1" Meter Swivel or 2" meter flange	
			B24363N - Straight Valve -Stab 1" meter	1" Meter Swivel or 2" meter flange	
			B24350N - Straight Valve Compression 1" meter OR B24335N - Straight Valve Compression 2" Flange	1" Meter Swivel or 2" meter flange	
			P24350N - Straight Valve Pack Joint 1" METER, OR - BF43777WNL Straight Valve Pack Joint 2" Flange	1" Meter Swivel or 2" meter flange	
			FIP X Meter Swivel	1" Meter Swivel or 2" meter flange	
		Ford	BA43-342W-U-AWT-NL 1" - Angle Valve-Stab	1" Meter Swivel or 2" meter flange	
			BA43-342W-Q-NL 1" OR BA43-342W-Q-NL 2"- Angle Valve Compression	1" Meter Swivel or 2" meter flange	
			BA43-342W-NL 1" OR BFA43777WNL 2" Angle Valve Pack Joint	1" Meter Swivel or 2" meter flange	
			B43-342W-U-AWT-NL 1" - Straight Valve -Stab	1" Meter Swivel or 2" meter flange	
			B43-342W-Q-NL 1" OR -B43-342W-Q-NL 2" Straight Valve Compression	1" Meter Swivel or 2" meter flange	
			B43-342W-NL 1" OR - BF43777WNL 2" Straight Valve Pack Joint	1" Meter Swivel or 2" meter flange	
			B13-332W-NL FIP X Meter Swivel 1" OR B13-332W-NL FIP X Meter FLANGE 2"	1" Meter Swivel or 2" meter flange	
		AY McDonald	74602BH 1" - Angle Valve-Stab	1" Meter Swivel or 2" meter flange	
			74602BQ 1" OR 74602BQ 2"- Angle Valve Compression	1" Meter Swivel or 2" meter flange	
			74602B22 1" OR BFA43777WNL 2" - Angle Valve Pack Joint	1" Meter Swivel or 2" meter flange	
			76100MWH 1" - Straight Valve -Stab	1" Meter Swivel or 2" meter flange	
	76100MWQ 1" OR 76100MWQ 2"- Straight Valve Compression		1" Meter Swivel or 2" meter flange		
	76100WW22 1" OR BF43777WNL 2" - Straight Valve Pack Joint		1" Meter Swivel or 2" meter flange		
	74604B 1" OR 74604b 2"- FIP X Meter Swivel Angle		1" Meter Swivel or 2" meter flange		
76101 1" OR 76101 2" - FIP X Meter Swivel St	1" Meter Swivel or 2" meter flange				
Glass Reinforced Polymer	Utility Supply Corporation	MegaTite - Straight Ball Service Valves: 210-X_X_	3/4" or 1"		

<b>Coupling / Repair</b>	Compression Fitting	Harco Fittings/Philmac Universal Transition Coupling	BxB, BxC, CxC	3/4" to 2"	
	Solid Sleeve FBE	Star	Solid Sleeve	4" to 48"	
	Glass Reinforced Polymer	Utility Supply Corporation	MegaTite - Full Bore Coupling: 118-X_X_	3/4" or 1"	
<b>Fire Hydrant</b>	Dry Barrel	Mueller	A - 423 CENTURION		
		AFC	B84B		
		Clow	MEDALLION		
<b>Flange Gasket</b>	Ductile Iron Pipe	American Cast Iron Pipe (ACIPCO)	Toruseal		
<b>Marker Tape</b>	Metallic Detectable Marking Tape	Pro-Line	WATER	Size 3"	
		Presco	WATER	Size 3"	
		Sigma	WATER	Size 3"	
<b>Marker, Electronic</b>	Water Ball	3M	1423-XR/ID	4"	
<b>Meter Box and Lid</b>	Water	GlasMasters	Per most recent approved products by Utility from Glasmasters		
		Hubbell (formerly CDR)	Quazite Gray Box - 3x1 Mouse Holes w/ Light Blue Cover	15"x17"	
<b>Meter, Water</b>	Water	METER PROVIDED BY UTILITY	Utility Supplied		

<b>Pipe</b>	Ductile Iron	American Cast Iron Pipe (ACIPCO)	Fastite Pipe	4" to 60"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		Griffin	Tyton Joint	3" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		US Pipe	Tyton Joint	3" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
	Field Lok Gaskets	JM Eagle	Eagle Loc 900 Sizes	4" to 12"	
		American Cast Iron Pipe (ACIPCO)	Amarillo Fast-Grip	4" to 30"	
		US Pipe	Field Lok Gasket	4" to 24"	
	PVC 14/18	Westlake Pipe & Fittings (NAPCO)	DR 14 / 18	4" to 36"	
		Diamond Plastics Company	DR 14 / 18	4" to 60"	
		JM EAGLE	DR 14 / 18	4" to 48"	
		National Pipe and Plastics	DR 14 / 18	4" to 48"	
	PVC Certa-Lok	Westlake Pipe & Fittings (NAPCO)		2" to 16"	As approved by CCU
	PVC 40/80	Westlake Pipe & Fittings (NAPCO)	PR, SCH 40 / 80	.5" to 3"	
		Silverline	PR, SCH 40 / 80	.5" to 3"	
		Charlotte Pipe and Foundry	PR, SCH 40 / 80	.5" to 3"	
	HDPE 3408, DIPS	Performance/Driscoplex	SDR 9 / 11	2" to 54"	
JM Eagle		SDR 9 / 11	.5" to 63"		
W.L. Plastics		SDR 9 / 11	1/2" to 54"		

<b>Pipe Fittings</b>	Ductile Iron MJ or Flange	Sigma	MJ	2" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		Sigma	FLANGED	2" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		Star	MJ	2" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		Star	FLANGED	2" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		Tyler Union	MJ	2" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
		Tyler Union	FLANGED	2" to 64"	Cement lined / Fusion bonded epoxy lining : NSF 61 Certified
	PVC 40 / 80	Nibco/Lasco	SCH 40 / 80	Sizes Various	
		Spears	SCH 40 / 80	Sizes Various	
		FLO Control / NDS	SCH 40 / 80	Sizes Various	
		Charlotte Foundry	SCH 40 / 80	Sizes Various	
	PVC 3034 (Gasketed)	Harco	SDR 26	4" to 15"	
		Multi Fittings	SDR 26	4" to 42"	
		Tigre-ADS USA	SDR 26	4" to 36"	
	PVC C900 (Gasketed)	Harco	C900	4" to 12"	
		Multi Fittings	BRUTE	4" to 48"	
		NACO / IPEX	C900/905 Pressure Gasketed	4" to 36"	
	HDPE	Elster / Honeywell	Hydrosert	3/4" to 2"	
	<b>Polyethylene Sleeve, DIP</b>	Polyethylene		Minimum 8 mil.	See Specifications
<b>Restraints</b>	Megalug DI / PVC	EBAA	2000PV Series PVC	3" to 48"	
		EBAA	1100 Series DI	3" to 54"	
		Star	4000G2 PVC Series	3" to 12"	
		Star	4000 PVC Series	3" to 36"	
		Star	3000 DI Series	3" to 48"	
		Sigma	SERIES D-SLDE DI Sizes	3" to 48"	
	Pipe / Bell PVC / DI	Sigma	SERIES D-SLCE PVC	3" to 36"	
		Star	1100 PVC Bell Restrainers	4" to 48"	
		Star	1000C / 1100C DI Bell Restrainers	4" to 48"	
		Sigma	PV LOK DI	4" to 42"	
		Sigma	PV LOK PVC	4" to 42"	
		EBAA	1600 / 2800 PVC	4" to 48"	
		EBAA	1500 / 1700 DI	4" to 48"	
Reiber Lok Gasket			4" to 24"		

<b>Service Saddles</b>	Epoxy Double SS Strap / Band	Power Seal	3417DI	2" to 24"	
		Ford	FCD202	4" to 30"	
		Romac	202NS	2" to 30"	
<b>Miscellaneous Water Service Brass</b>	Brass	Ford	Pack Joint OR Ultra Tight	1/2" to 2"	
		Mueller	300 series	1/2" to 2"	
		A.Y. McDonald	Pack Joint OR Ultra Tight	1/2" to 2"	
<b>Service Tubing Water</b>	PE 3408, LPS SDR9 (Blue)	Endot	EndoPure PE-4710	1" or 2"	
		Charter Plastics	Charter PE 4710 Blue Ice	1" or 2"	
		Vanguard / CB Supplies	BRUISER HDPE	1" or 2"	
<b>Stiffeners</b>	Service Tubing, CTS / LPS	Ford	50 / 70 STAINLESS STEEL	1" or 2"	
		Mueller	STAINLESS STEEL	1" or 2"	
<b>Stiffeners</b>	HDPE	Romac	WEDGE TYPE	4" to 36"	LGR ON REQUEST
		Cascade	WEDGE TYPE	2" to 20"	LGR ON REQUEST
<b>Tapping Sleeves</b>	Stainless Steel	Romac	SST III SERIES	4" to 30"	
		TPS Total Pipe Solutions	Triple Tap Extended Range		
		Powerseal	3490MJ/3940AS		
<b>U-Branch</b>	Brass	AY McDonald	709UHFW	1"x3/4"x6-1/2"	
		Mueller	H15365	1"x3/4"x6-1/2"	
		Ford	U48-43-65-U-NL	1"x3/4"x6-1/2"	
<b>Flange Adapters</b>	Epoxy, SS, W/Rest.	EBAA	MEGAFLANGE 2100 Ser.	3" to 48"	
		JCM	301 SERIES	3" to 12"	
		Romac	RFCA	3" to 12"	
<b>Tracer Wire (for HDD)</b>	Copper-clad steel	Copperhead	Soloshot Extra-High Strength, 1045 CCS Tracer wire	#10 AWG (0.1019" diameter)	2,032 lb break load, 45 mil HDPE insulation
<b>Valve, Box Lid</b>	Polymer Concrete	GlasMasters	Potable Water VBC7420-4-CCU		Grass Areas
	Cast Iron	Tyler Union	(25 lbs.) DOM Deep Depth water valve lid		Pavement areas: Roadways above 45 mph
		Bingham and Taylor	(25 lbs.) DOM Deep Depth water valve lid		Pavement areas: Roadways above 45 mph
		Tyler Union	Standard Lid		Pavement areas: Roadways under 45 mph
		Bingham and Taylor	Standard Lid		Pavement areas: Roadways under 45 mph
<b>Valve Box</b>	Cast Iron	Bingham and Taylor		No. 18, 20, 21, 22	Screw Type Only
		Tyler/Union	6850 SERIES 461S	4" to 24"	Screw Type Only
<b>Valve, Butterfly</b>	Iron, MJ or FL	Kennedy	4500 SERIES	4" to 24"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Dezurik	Dezurik BFV	3" to 36"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Mueller	LINE SEAL	3" to 48"	Fusion bonded Epoxy Lining : NSF 61 Certified

<b>Valve, Check</b>	Iron, W&L	Kennedy	C508/1106LW	2" to 24"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Muller	A - 2600 SERIES	2" to 12"	Fusion bonded Epoxy Lining : NSF 61 Certified
		AFC	SERIES 2100	3" to 16"	Fusion bonded Epoxy Lining : NSF 61 Certified
<b>Valve, Air Release</b>	Water / No Vacuum Permitted	ARI	D-040-V-STST	3/4" to 2"	NO VACUUM
		Val-Matic	15A - 15A.3	1/2" to 1'	NO VACUUM
<b>Valve, Gate</b>	Iron, MJ or FL or Tapping: No side actuating valves allowed	AFC	2500 / 2500-1 Series	2" to 36"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Mueller	A 2360 / 2361 Series	2" to 48"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Teams	Insert Valve	4" to 12"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Clow	6100 Series	4" to 48"	Fusion bonded Epoxy Lining : NSF 61 Certified
<b>Valves, OS&amp;Y</b>	Wheel / OS&Y	AFC	2500 Series	2.5" to 24"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Kennedy	KS-FW Series	2" to 24"	Fusion bonded Epoxy Lining : NSF 61 Certified
		Mueller	2360 / 2361 Series	2.5" to 24"	Fusion bonded Epoxy Lining : NSF 61 Certified

[Back to Table of Contents](#)

**002540 STANDARD LIFT STATION / 002340 VALVES / 002445 JACK AND BORE**

Product	Type	Manufacturer	Model #	Size	Product Comments
<b>Automatic Transfer Switch</b>	As approved by generator manufacturer				
<b>Coating, LS External and Coating, Manhole External</b>	Coal Tar Epoxy	Whitlam / Plumb-Pro	BLACK DRAGON		
	Water Based Epoxy	Koppers	300M CARBOLINE		
<b>Control Panel Support Posts</b>	SCH40 Aluminum	Pro-Tech	EW-1 AquaPoxy	4" to 6"	As approved by CCU
<b>Control Panel</b>	N/A	N/A	N/A	N/A	As approved by CCU
<b>Casing End Seal</b>	Casing End Seal	Cascade	CCES	Made to order	
		PSI	TYPE KT	Made to order	
		CCI	ESC	Made to order	
<b>Elastomeric Gasket</b>	Manhole Boot				As approved by CCU
<b>Fence</b>	N/A	N/A	N/A	N/A	Refer to Specifications
<b>Flange Adapters</b>	Epoxy, SS, W/Rest.	EBAA	MEGAFLANGE 2100 Ser.	3" to 48"	
		JCM	301 SERIES	3" to 12"	
		Romac	RFCa	3" to 12"	
	PVC SCH 80	Vanstone		6" to 8"	
<b>Flange Gasket</b>	Ductile Iron Pipe	American Cast Iron Pipe (ACIPCO)	Toruseal		
<b>Float Hangar</b>	HACBHOPBCH CABLE HOLDER 316SS+ PBCH	Flygt	591022	1/2" and 3/16" hooks	
<b>Floats</b>	Roto Floats	Anchor Scientific	Type S/ Suspended	40ft Normal Open	
			Type S/ Suspended	60ft Normal Open	
<b>Flow Meter</b>	Mag meter	Rosemont	As approved by CCU	Various	
<b>Guide Rails</b>	316 SS /SCH 40			2" to 3"	As approved by CCU
<b>Guide Rail Brackets</b>	316 SS	N/A	N/A	2" to 3"	As approved by CCU
<b>Generators</b>	Stand-By	Caterpillar			
		Cummins/Onan			
		Kohler			
<b>Hydrophilic Water Stop</b>		Swell Seal			Additional joint sealant
<b>LS Bypass Fitting/Camlocks</b>	Camlock Chain added per request	Dixon	Aluminum Fittings	1/2" to 8"	
		Kamlock	Aluminum Fittings	1/2" to 4"	
		ProFlow	Aluminum Fittings	1/2" to 6"	
<b>Level Transmitters</b>	Submersible	MJK	As approved by CCU		
		Dwyer	As approved by CCU		
		KPSI	As approved by CCU		
	ultrasonic	Siemens	As approved by CCU		
		Drexelbrook	As approved by CCU		
<b>Hatch Cover</b>	Aluminum Access Hatch	Halliday	Per Engineering Specs.		
		U.S. Fabrication	Per Engineering Specs.		

<b>HDPE Electrofusion Fittings</b>	Electrofusion	JM Eagle	EFC PE3408	4" to 60"		
		Georg Fischer	EFC PE3408	.5" to 26"		
<b>HDPE Backup Ring</b>	316L SS				As approved by CCU	
<b>Meter, Water, Reuse</b>	Water / Reuse	METER PROVIDED BY UTILITY				
<b>Odor Control</b>	Bio Filter	SIEMENS / Hayward	Zabocs Biofilter			
<b>Pipe</b>	Ductile Iron - S ( Push On Joint Type )	American Cast Iron Pipe (ACIPCO)	Fastite Pipe	4" to 60"	P401 epoxy coated	
		Griffin	Tyton Joint	3" to 64"	P401 epoxy coated	
		US Pipe	Tyton Joint	3" to 64"	P401 epoxy coated	
	PVC SCH 80	Westlake Pipe & Fittings (NAPCO)	PR, SCH 80	6" to 8"		
		Silverline	PR, SCH 80	6" to 8"		
		Charlotte Pipe and Foundry	PR, SCH 80	6" to 8"		
	HDPE 3408, DIPS	Performance/Driscoplex	SDR 9 / 11	2" to 54"		
		JM Eagle	SDR 9 / 11	.5" to 63"		
		W.L. Plastics	SDR 9 / 11	1/2" to 54"		
<b>Pipe Fittings</b>	Ductile Iron MJ or Flange	Sigma	MJ	2" to 64"		
		Sigma	FLANGED	2" to 64"		
		Star	MJ	2" to 64"		
		Star	FLANGED	2" to 64"		
		Tyler Union	MJ	2" to 64"		
		Tyler Union	FLANGED	2" to 64"		
	PVC 40 / 80	Nibco/Lasco	SCH 40 / 80	Various		
		Spears	SCH 40 / 80	Various		
		FLO Control / NDS	SCH 40 / 80	Various		
		Charlotte Foundry	SCH 40 / 80	Various		
<b>Penetration Seal</b>		Link Seal			As approved by CCU	
<b>Pressure Sensor</b>					As approved by CCU	
<b>Pumps, LS</b>	Submersible	Flygt/ITT/Xylem	Project Specific			
		Wilco				
		ABS / Sulzer				
<b>Pump Base, Elbow</b>	Cast Iron	Flygt/ITT/Xylem	Pump Specific	2" to 12"	As approved by CCU	
		Wilco		2" to 12"	As approved by CCU	
		ABS / Sulzer		2" to 12"	As approved by CCU	
<b>Lifting Chain Cleavis</b>	316 SS			3/8"	As approved by CCU	
<b>Pump Lifting Chain</b>	316 SS			3/8"	As approved by CCU	
<b>SCADA</b>	N/A	N/A	N/A	N/A	See separate SCADA list	
<b>Stiffeners</b>	HDPE	Romac	WEDGE TYPE	4" to 36"	LGR ON REQUEST	
		Cascade	WEDGE TYPE	2" to 20"	LGR ON REQUEST	
<b>Support Stands</b>	316 SS	N/A	N/A	N/A	Refer to Specifications	
<b>Strut Channel</b>		Unistrut	P1000T 10SS	1-5/8" x 10ft		

<b>Spacer</b>	Casing	PSI	S	4" to 48" plus	
			C	4" to 48" plus	
			S8G-2	4" to 38" plus	
		Cascade	CCS	Made to order	
		CCI	CSS8	Made to order	
<b>Valve, Check</b>	Iron, MJ or FL	Kennedy	Quiet Closing/Swing Check/Weight & Lever	2" to 36"	
		Mueller		2" to 36"	
		M&H		2" to 36"	
<b>Valve, Plug</b>	Iron, MJ or FL	Kennedy		3" to 48"	100% port
		Golden Anderson		4" to 36"	100% port
		Dezurik		4" to 72"	100% port
<b>Valve, Air Release</b>	Waste Water	Val-Matic	200 Series	1/2" to 20" Combo	
		Val-Matic	48A W/BWA	2" to 4"	
		H-TEC	Model 986	2" to 8" Combo	
		ARI	D-025	2" - 3" - 4" Combo	
		ARI	D-020	2" to 8" Combo	
<b>Yard Light</b>					As approved by CCU

[Back to Table of Contents](#)

**003300 PRECAST CONCRETE**

<b>Product</b>	<b>Type</b>	<b>Manufacturer</b>	<b>Model #</b>	<b>Size</b>	<b>Product Comments</b>
<b>Concrete Precast</b>	Portland Cement Type II	Cast Systems L.L.C.			
		Oldcastle Precast East Inc			
		Quality Precast Solutions, LLC			
		Foley Products Company, LLC			
<b>Hydrophilic Water Stop</b>		Swell Seal			Additional joint sealant
<b>Reinforcing steel</b>	Grade 60	Cast Systems L.L.C.			
		Oldcastle Precast East Inc			
		Quality Precast Solutions, LLC			
		Foley Products Company, LLC			
<b>Wet well, Joint Seal, Circular</b>	Rubber Gasket	Press-Seal	R-4		
<b>Wet well, Joint Seal, Rectangular or Square</b>	Butyl Rubber	Conseal	CS-102	1-1/2"	
<b>Wet well, External Joint Wrap</b>	Butyl Rubber	Henry	RU-116	6" 9" 12"	
		Conseal	CS 212	6", 8", 12", 24", 36" 48"	
<b>Wet Well, External Coatings</b>	Coal Tar Epoxy	Whitlam / Plumb-Pro	Black Dragon		
		Koppers	300M Carboline		
	Water Based Epoxy	Pro-Tech	EW-1 AquaPoxy		
<b>Manhole Internal Coating</b>	Polymorphic Resin	IET	SYSTEM 3		
	Epoxy resin (monolithic)	Raven	Raven 405		
	Polyurethane coating	Spray Roq	Spraywall		
	Polyetheramine	GML Coatings	Green Monster		
	Polymorphic Resin	Restoration and Protective Solutions LLC.	Gas Guard 1000		
<b>Wet well, Structural Internal Coating</b>	Pure-fused calcium aluminate mortar	Kerneos	SEWPERCOAT 2000HS		
		Madewell / Mainstay	Mainstay ML-CA		
<b>Wet well, Internal Coating</b>	Polymorphic Resin	IET	SYSTEM 3		
	Epoxy resin (monolithic)	Raven	Raven 405		
	Polyurethane coating	Spray Roq	Spraywall		
	Polyetheramine	GML Coatings	Green Monster		
	Polymorphic Resin	Restoration and Protective Solutions LLC.	Gas Guard 1000		

[Back to Table of Contents](#)

**009900 SURFACE PREPARATION PAINTING AND COATING**

<b>Product</b>	<b>Manufacturer</b>	<b>Product Comments</b>
<b><i>Paint, Protective</i></b>	Sherwin Williams	As approved by CCU
	Tnemec	As approved by CCU
	Carboline Company	As approved by CCU
<b><i>Specialty Coatings</i></b>	Enecon	As approved by CCU

[Back to Table of Contents](#)