

The materials, parts and appurtenances contained within this document are "pre-approved" for use within the City of Gastonia for the project listed below.

Please "check" beside the manufacturer/parts to be used on this project. Any materials not contained within may be submitted as a shop drawing for consideration.

\*Shop drawings for all "tap" material (water & sewer) must be included with submittal package for Utility Department review/approval.

**All materials must be manufactured and tested in USA**

## City of Gastonia - Land Development Pre-Approved Materials List - March 2025

**\*Water & Sewer Materials for Mains Only - Not for Services or Pump Stations**

Project: \_\_\_\_\_

Date Submitted: \_\_\_\_\_

Contractor: \_\_\_\_\_

Material Supplier: \_\_\_\_\_

Owner/Developer: \_\_\_\_\_

### WATER MATERIALS

Material / Part	Item Used	Manufacturer	Model #	City Detail Specification	NOTES
PVC Pipe		Westlake-Formerly NAPCO	C-900	Section 14.04	<b>6"-10"</b> : C-900, Minimum (DR 14) Alternative must be approved by City DIP required in encasements. DIP required for ARV's. DIP required for crossings.
		Diamond Plastics			
		J-M Pipe			
		National Pipe			
Cement Lined DIP		American Pipe	CL 350 Mechanical Joint Push-on (Belltite, Fastite, or Tyton) Restrained Joint (MECH-LOK)	Section 14.06	AWWA C-151/ANSI STD # A21-51 or latest revision. Zinc outside coating or standard asphaltic coating allowed.
		US Pipe			
		McWane			
Cement Lined DIP - Interim Approval			TR Flex/ HDSS		No field welds allowed. Installed as per mfg recommendations. TR Flex fittings not allowed. Approved on a case by case basis.
Gate Valve		Mueller	A-2380-20, Super Seal, A-2360	Section 14.07	MJ x MJ  2" square nut Open CCW (left) AWWA C-509 or latest revision
		M & H Valve & Fitting	Style 67-01		
		American Flow Control	2500 Series		
		American Flow Control	Series 2500 w/ ALPHA		
		Kennedy	571X		
		Jenkins Brothers	370 (up to 2") threaded bronze		
		Grinnell	3050 (up to 2") threaded bronze		
		Hydra Gate	C-500		
		Metroseal	C-509		
		Clow	F-6100, F-5065		
Resilient Seated Wedge Valve		Clow	F-6100 MJ	Section 14.07	MJ x MJ 2" square nut Open CCW (left) AWWA C-509, 515 or latest revision
		American Flow Control	Seires 2500 MJ, Series 2500 ALPHA		
		Mueller	A-2361		
		Kennedy	1571X, 757155		
Fire Hydrant		American Flow	American Darling MK73-5	Section 14.11	Open CW (right) with direction arrow. City Spec threads and paint. 1 1/4" operating nut.
		American Flow	American Darling MK73-5 w/ ALPHA	Detail 71B-7	
		Mueller	Super Centurion 20, A421 Centurion	Detail 71B-8	
		Kennedy	Gurardian K-81-A, K-81-D		
		Clow	Medallion		
Transition Couplings AC to DIP		Hymax	Hymax 2		Still need submittal for these each time. Must Verify pipe OD before ordering.
		Viking Johnson	Maxistep		
		Smith Blair	413, 421		
Tapping Sleeve & Valve		M & H Valve & Fitting	Valve 751, Sleeve 1174, 1274	Section 14.08	
		American Flow Control	Valve: Series 2500, Sleeve: Series 2800		
		Kennedy	950X		
		Mueller	H-667, H-619, H-615		
			Valve T-2360		
		Clow	Valve F-6114, F-5093, Sleeve F-5205, F-5207		
Stainless Steel Tapping Sleeve		Romac	SST		See CMUD Spec Size on size not allowed.
		Mueller	Mueller H-304		
Fittings		American Pipe	C-153	Section 14.09	
		Trim Type	C-110, C-153		
		Tyler	C-153		
		Union Foundry	C-153		
		Star Pipe	C-110, C-153		
		US Pipe	C-110, C-153		

WATER MATERIALS CONTINUED					
Material / Part	Item	Manufacturer	Model #	City Detail	NOTES
Restraint		EBAA	1100 Series	Section 14.09	DIP Pipe
		Uniflang	1400 Series		
		Smith Blair Ford	CamLock 111/120 1400D		
		Star Pipe	Stargrip Series 3000 DIP		
		Sigma	One-Lok Series D-SLDE		
		EBAA	1700 Series	Old Spec	DIP Interim Approval - 2022
		Romac	611		PVC Interim Approval - 2022
		EBAA	Series 1600		PVC Interim Approval - 2022
	Tyler Union	TufGrip Series 1000 DIP & 2000 PVC			
Push on Joint Restraint Gaskets for DIP Interim Approval (4" - 12")		US Pipe American McWane	Field Lok 350 Fast-Grip Sure Stop 350	Section 9.06	Not for use in encasements. Installed as per manufacturer recommendations.
Valve Boxes		Bingham & Taylor	4908 Series	Section 14.10	Slip type only, cast iron 5 1/4" shaft with appropriate cover and flange footing (all riser sections must be DIP).
		Charlotte Pipe & Foundry	UTL 274		
		Tyler/Union	6855 Series		
Tracer wire				Section 14.04	14 gauge solid copper (uncoated)
Air Release Valve (water main)		Crispin	1": P-10, PL-10 2": P-20, PL-20	Section 14.20 Detail 71B-17	
Polyethylene Encasement				Section 14.06	AWWA/ANSI C-105/A21.5 Tubes only. Minimum 8 mil. thickness.
Steel Encasement Pipe		Empire Pipe & Supply		Section 13.23	ASTM-A139, Grade B, AWWA C-200, Mimimum 0.25" thickness.
Casing Spacers		Spider Manufacturing		Detail 71B-25	
		Valaint Steel			
		Cascade			
		BWM Company			
		RACI Spacers North America			
Valve Box Proector Ring		Masonry Supply Georgia-Lina Precast, Inc.		Detail 71B-7	Must have wire reinforcement/rebar.
SEWER MATERIALS					
Material / Part	Item Used	Manufacturer	Model #	City Detail Specification	NOTES
Precast Manhole		Tindall Concrete-Spartanburg	4' and 5' Diameter	Section 13.09 Detail 71B-4 Detail 71B-3	HS-20 load rated. Minimum 6" base thickness. Drop manholes require monolithic drop pad. Eccentric cones and flat-slab-top (FST) by special permission only.
		Old Castle (D&M) Charlotte			
		Tru-Contour, Inc.			
		Metromont			
		Material Supply - Charlotte			
		Foley Products Company			
		Wellington Hamrick Precast			
		Performance Precast			
		Precast of the Carolinas			
		Precast Construction Products			
		Concrete Pipe & Precast			
		Howard Precast			
MH Ring & Cover		East Jordan Iron Works	V-1384, V-2384 (locking)	Section 13.15 Detail 71B-1	City logo where available.
		Ennis	MH-GRE-24		
		US Foundry	USF 669 & KL cover		
PVC Pipe		Charlotte Pipe	Gasketed Integral Bell	Section 13.20	Cell Class 12454 or 12364 must be clearly marked on all pipe.
		J-M Manufacturing			
		Westlake-Formerly NAPCO			
		Diamond Plastics			
		National Pipe			
		LCP Plastics			
		Contech			
Cement Lined DIP		American Pipe	CL 51, 52, 53. CL 350 Mechanical Joint Push-on (Belltite, Fastite, or Tyton) Restrained Joint (MECH-LOK)	Section 13.05	AWWA C-151/ANSI STD # A21-51 or latest revision. Zinc Outside Coating or standard asphaltic coating allowed.
		US Pipe			
		McWane			
Air Release Valve (force main)		Crispin	US20B(L), S20B(L)		
Butyl Rubber Sealant		Kent Seal	No. 2	Section 13.09	ASHTO M-198, Federal Specifications SS-
		Conseal	CS-102, CS-202		
		RuVan	RV30		
		Press-Seal	Pro-Stik		
MH Steps		M A Industries	PS-1, PFS-1, PS-1-45	Section 13.06	
		American	ML10NCR, ML10DS, ML10TDS	Section 13.09 Detail 71B-2	
MH Boot		PSX		Section 13.09	ASTM C923
		Kor-N-Seal			
Steel Encasement Pipe		Empire Pipe & Supply		Section 13.23	ASTM-A139, Grade B, AWWA C-200, Mimimum 0.25" thickness.

## SEWER MATERIALS CONTINUED

Material / Part	Item Used	Manufacturer	Model #	City Detail Specification	NOTES
Casing Spacers		Spider Manufacturing		Detail 71B-25	
		Valaint Steel			
		Cascade			
		BWM Company			
		RACI Spacers North America			
Expansion Joint Coupling		Dresser	Style 63		
		Smith-Blair	611		
Repair Coupling		Multi-Fittings	SDR35 Gasketed (GxG) No Stop		
DIP/PVC Transition Coupling		Harco GPK	Molded Transition Coupling Y79-00089G Y81-00089S		This is an interim Approval (November 2018) - May be revoked at any time.
MH Vent Pipe				Detail 71B-4a	
Traffic Bearing Cleanout Cap		US Foundry	7631	71B-19D	
Sewer Tap Protector Ring		Masonry Supply		Section 13.19	Must have wire reinforcement/rebar.
		Georgia-Lina Precast, Inc.		Detail 71B-19	

## STORM DRAIN MATERIALS

Material / Part	Item Used	Manufacturer	Model #	City Detail Specification	NOTES
CB Frame, Grate & Hood		US Foundry	5181 frame, 6420 grate	Detail 71C-1	Grate must have "City of Gastonia" lettering.
			669 ring & KL cover		
			4137 frame, 6237 grate		
		Ennis	840.03 Type C	Detail 71C-2	
		East Jordan / Vulcan	V-4066-1	Detail 71C-3	
CB Frame, Grate for Valley Curb		US Foundry	5298 Frame and 6298 Grate		Only approved on a case by case basis - normally when a driveway cannot be avoided.
		EJIW	V4520		
RCP		Johnson		Section 11.04	Class III, Wall "B", Minimum 15" Diameter Pipe, Maximum 36" Diameter FES, ASTM C-76
		Rinker			
		Mid-Atlantic Drainage, Inc			
		Foley Products Company			
		Vanhoooseco			
		Concrete Pipe & Precast			
		Smith Setzer			
Precast Catch Basins		Tru-Contour, Inc.			Rectangular precored units only, 6" minimum wall thicknes, H-20 lids, All Pre-Cast boxes shall meet NCDOT requirements, NCDOT Stamped Boxes required in R/W
		Dellinger			
		Wellington Hamrick Precast			
		Performance Precast			
		Rinker Materials			
		Tindall Concrete-Spartanburg			
		Precast of the Carolinas			
Precast Headwall		Howard Precast			SPECIAL APPROVAL REQUIRED
		Mid-Atlantic Drainage, Inc			
Polypropylene Pipe		ADS			See Standard Specifications - Interim Appvd
HDPE		ADS	N-12		See Standard Specifications - Interim Appvd