

DUNCANVILLE APPROVED MATERIALS LIST

WATER UTILITIES					
BASIC PRODUCT CATEGORY	PRODUCT SUB-CATEGORY	MANUFACTURER	MODEL, TYPE, OR STYLE APPROVED	GOVERNING SPECIFICATION	EXCEPTIONS
Casing Spacer					
CASING SPACER	CASING SPACER	CASCADE	CCS / CCS-ER	NCTCOG 503.2	STAINLESS ONLY
Corporation Stop					
1" CORP STOP	QUICK JOINT BALL VALVE	FORD	FB1100-4-Q-NL	AWWA C800 502.5.1.3.COD	NO LEAD
		MUELLER	B-25028N		
2" CORP STOP	QUICK JOINT BALL VALVE	FORD	FB1100-7-Q-NL		
		MUELLER	B-25028N		
Curb Stop					
1" CURB STOP	QUICK JOINT BALL VALVE	FORD	B41-444W-Q-NL	AWWA C800 502.5.1.3.COD	NO LEAD
		MUELLER	B-25170		
2" CURB STOP	QUICK JOINT BALL VALVE	FORD	B41-777W-Q-NL		
		MUELLER	B-25170		
Brass Service Fittings					
Y-Branch	Y-Branch	MUELLER	H-15343N	AWWA C800 502.5.1.3 COD	2" Main x 1" Brach
Tee Fitting	Tee Fitting	FORD	T444-774-Q-NL	AWWA C800	2" x 2" x 1" Side Outlet
		MUELLER	H-15381	502.5.1.3 COD	
Elbow	Elbow	FORD	L44-44-Q-NL	AWWA C800	L44-77-Q-NL (2")
		MUELLER	H-15526N	502.5.1.3 COD	
Coupling, Dresser - 12" PIPE OR LESS ONLY					
DRESSER COUPLING	FOR GRAY & DI PIPE	HYMAX	2 - WIDE RANGE	AWWAA C219 NCTCOG 501.9.3	
		SMITH-BLAIR	441, 442, 461, & 462		
		FORD	FC1 STYLE		
Coupling, Transition - 12" PIPE OR LESS ONLY					
TRANSITION COUPLING	FOR GRAY & DI PIPE	HYMAX	2 - WIDE RANGE	AWWAA C219	
		SMITH-BLAIR	441, 442, 461, & 462		
		FORD	FC2 STYLE		

*BARREL MUST BE PAINTED ALUMINUM SILVER (FLYNT BRAND). BONNET & NOZZLE CAPS COLOR CODED BY MAIN SIZE.

- 6" mainlines shall be color coded with K00639007 or V2163838.
- 8" mainlines shall be color coded with K00379007 or V2137838.
- 10" or larger mainlines shall be color coded with K00249007 or V2124838.

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Fittings									
FITTINGS FULL-BODIED	DUCTILE IRON	STAR PIPE		AWWA C110	DOMESTIC FULL-BODIED ONLY				
		TYLER/UNION/UFCO							
		SIGMA							
Flange Adapters									
FLANGE ADAPTERS	DUCTILE IRON	STAR PIPE		AWWA C219 CITY SPECIFICATIONS	DOMESTIC ONLY				
		TYLER							
		SIGMA							
Manhole Appurtenances									
MANHOLE RING & LID	24-INCH	BASS & HAYS	300-24 "WATER"	CITY SPECIFICATIONS	MUST HAVE BITUMINOUS COATING				
	30-INCH		VRM-30 "WATER"						
Pipe Material									
POLYETHYLENE	SDR 9	VARIOUS			SERVICE				
PVC	DR-14			AWWA C900 NCTCOG 501.15	MAIN				
Pipe Lubricant									
PIPE LUBRICANT		VARIOUS	VARIOUS MODELS	NCTCOG 501.16.4					
Polywrap									
POLYWRAP	WRAP MUST BE LLDPE, T=0.008", MANUFACTURED AND LABELED IN ACCORDANCE WITH AWWA C105.								
Retainer Glands - MANDATORY IF PIPE IS LARGER THAN 12"									
RETAINER GLANDS	FOR DI PIPE	SMITH-BLAIR	111 CAM-LOK	NCTCOG SPECIFICATIONS	DOMESTIC FITTINGS				
		SIGMA	ONE-LOK SLDE						
		ROMAC	ROMAGrip						
		FORD	UNI-FLANGE 1400						
		EBAA IRON	1100 MEGALUG						
		STAR PIPE	STARGRIP 3000						
	FOR PVC PIPE	SMITH-BLAIR	120 CAM-LOK						
		SIGMA	ONE-LOK SLCE						
		ROMAC	ROMAGrip						
		FORD	UNI-FLANGE 1500						
		EBAA IRON	2000PV MEGALUG						
		STAR PIPE	STARGRIP 4000						
		Service Saddles							
		SERVICE SADDLES	EPOXY COATED STAINLESS STEEL DOUBLE STRAP			SMITH-BLAIR	317	AWWA C800 NCTCOG 502.10.2.1	IRON PIPE THREADS
FORD	FCD202-XXX-TAP-Q								
MUELLER	DR2S								

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Fire Hydrants					
FIRE HYDRANTS		MUELLER	SUPER CENTURION 250	AWWA C502 CITY SPECIFICATIONS 502.6.3.COD	DALLAS SPEC 1-1/4" PENTAGON OPERATING NUT (1) 4" NST pumper nozzle (2) 2.5" NST hose nozzles
		AMERICAN FLOW CONTROL	WATEROUS PACER		

Tapping Sleeve					
TAPPING SLEEVE	STAINLESS STEEL	SMITH-BLAIR	665	AWWA C800 COD 502.6.1.17	12" PIPE MAX
		FORD	FTSS-XXX-X-EPDM		
		MUELLER	H304		

*OUTLET FLANGES MUST ALSO BE STAINLESS STEEL. SHALL BE RESTRICTED TO PIPE SIZES 8" AND SMALLER AND SHALL NOT BE USED FOR TAPS GREATER THAN 75% OF THE MAIN SIZE.

Valves					
AIR VALVES	AIR RELEASE AND VACUUM BREAKER	VAL-MATIC	VM100-S	502.6.3.COD	
		CLA-VAL	36 SERIES COMBINATION		
BUTTERFLY VALVES	STANDARD	AMERICAN AVK	SERIES 816	AWWA C504 COD 502.6.6	
	DOUBLE ECCENTRIC	AV-TEK	DEX 2504		
CHECK VALVES		VAL-MATIC	7200 SURGEBUSTER		
GATE VALVES*	RESILIENT WEDGE GATE VALVE	AMERICAN AVK	SERIES 45	C509, COG	2.5" - 16"
		AMERICAN AVK	SERIES 55	502.6. COD	18" - 20"

* MUST HAVE 316 SS BOLTS. BOTH RED EPOXY OR BITUMINOUS EXTERIOR COATINGS ARE ALSO ACCEPTABLE

* AWWA - C515 RSGVs WITH REDUCED WALL THICKNESSES ARE NOT ACCEPTABLE

* VALVES LARGER THAN 12" SHALL BE EQUIPED WITH A BYPASS VALVE

Valves Stack					
VALVE COVERS	LID	BASS & HAYS	#340-1	NCTCOG 806.4	
		SIGMA	VB1651M		
		STAR PIPE	SHORTY		
	10" COVER	BASS & HAYS	#340-1		
		SIGMA	VB1652M		
	10" STACK	STAR PIPE	SHORTY		
	18" COVER	BASS & HAYS	#348-1		

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Water Meter AMR Lids					
WATER METER AMR LIDS	PLASTIC	DFW PLASTICS		DWU	12"
		ACCUCAST			20"
		PENTAIR			12"
		BASS & HAYS			
	HYBRID	HUBBELL	HYBRID UTILITY COVER		
Water Meter Vaults					
WATER METER VAULTS	CONCRETE	AMERICAN INDUSTRIAL PRECAST	MUST HAVE APPROVED LIFTING DEVICES	DWU	
		BROOKS/OLDCASTLE PRECAST			
		CONCRETE PRODUCTS (CPI)			
		HANSON			
		NEW BASIS (DALWORTH QUICKSET)			
		TURNER			
CAST-IN-PLACE					
Valves Stack					
VALVE COVERS	LID	BASS & HAYS	#340-1	NCTCOG 806.4	
		SIGMA	VB1651M		
		STAR PIPE	SHORTY		
	10" COVER	BASS & HAYS	#340-1		
		SIGMA	VB1652M		
	10" STACK	STAR PIPE	SHORTY		
	18" COVER	BASS & HAYS	#348-1		

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Water Meter Boxes					
24" WATER METER CAN	PLASTIC WITH DUCTILE IRON RING & LID	BASS & HAYS	BH P395P WITH BH3-1 LID		
		ACCUCAST	712424		
36" WATER METER CAN	PLASTIC WITH DUCTILE IRON RING & LID	BASS & HAYS	BH P536P WITH BH5C-1 LID		
Water Meter Couplings					
WATER METER COUPLINGS	1-1/2" BRASS METER FLANGE	FORD	CF31-66-NL	DWU	*FLANGE MUST BE 3/4" THICK
		MUELLER	H-10129-HN		
	2" BRASS METER FLANGE	FORD	CF31-77-NL		
		MUELLER	H-10129-HN		
	1" BRASS STRAIGHT	FORD	C38-44-2-625-NL		NO LEAD ONLY
		MUELLER	H-10890N		
Water Meter Brass Fittings					
WATER METER BRASS FITTINGS	FIP x COMPRESSION COUPLING	FORD	C04-44-Q-NL	DWU	NO LEAD ONLY
		MUELLER	H-15451N		
	MIP x COMPRESSION COUPLING	FORD	C84-44-Q-NL		
		MUELLER	H-15428N		

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WASTEWATER UTILITIES					
BASIC PRODUCT CATEGORY	MANUFACTURER	MODEL, TYPE, OR STYLE APPROVED	GOVERNING SPECIFICATION	NCTCOG	EXCEPTIONS
Access Device					
WASTEWATER ACCESS DEVICE	JM EAGLE	WAC 15	N/A	502.2	MINIMUM 15" RISER PIPE
Casing Spacers					
CASING SPACERS	CASCADE	CCS / CCS-ER		503.2.2.1	N/A
Cleanouts					
CLEANOUT LID	BASS & HAYS	BH 404	ONLY USED IF CLEANOUT IS IN CONCRETE	502.2, 806.4.1.2	PS= 160 psi
NOTE: DESIGN PLANS DESIGNATE ONLY ACCEPTABLE MATERIALS FOR PROJECT					
Couplings					
RUBBER SLEEVE	VARIOUS	VARIOUS	MANUFACTURER'S SPECIFICATIONS	N/A	CLAY OR CONCRETE PIPE ONLY
PVC ADAPTER	VARIOUS	VARIOUS	MANUFACTURER'S SPECIFICATIONS	N/A	PVC PIPE ONLY
Grade Adjustment Riser					
GRADE ADJUSTMENT RISER	BASS & HAYS	N/A	MANUFACTURER'S SPECIFICATIONS	502.1.2, 502.1.4.5	
	EAST JORDAN				
Mainline- Pipeline (Material)					
PVC PRESSURE RATED	VARIOUS	ASTM D2241 (SDR 26)	BELL AND SPIGOT-ASTM D3139	ASTM F477 NCTCOG 501.17	PS= 160 psi 4" & UP
HDPE		ASTM F714 (DR 17)	FUSION ASTM F2620	NCTCOG 501.21	PS= 125 psi 4" & UP
Manholes					
PRECAST	VARIOUS	TCEQ 217	ASTN C478		ALL NEW MANHOLE LIDS SHALL BE 30" MINIMUM.
CAST-IN-PLACE	N/A		N/A		
Manhole Corrosion Protection					
EPOXY PROTECTIVE MANHOLE LINER	RAVEN LINING SYSTEMS	Raven 405	N/A	502.9	N/A
	SPECTRASHIELD	N/A	N/A	502.9	N/A
Manhole Frame					
STANDARD FRAME	VARIOUS	N/A	ASTM A48 CLASS 35B	806.4.1.2	
ALL NEW MANHOLES SHALL HAVE CORROSION PROTECTION					

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Manhole Lid/Cover					
STANDARD 24"	BASS & HAYS	300-24 & 400-24	ASTM A48 CLASS 35B, CAST IRON ONLY MUST HAVE BITUMINOUS COATING	806.4.1.2	NOT FOR USE ON NEW CONSTRUCTION
	EAST JORDAN	2024Z1(FRAME) 2024A1(COVER)			
STANDARD 30"	BASS & HAYS	V-1420D(FRAME) 1480(COVER)			
	EAST JORDAN	V-1420/1480Z(FRAME) 1480A(COVER)			
Manhole to Pipe Connectors					
MANHOLE TO PIPE CONNECTORS	A-LOK	A-LOK SERIES	ASTM C923	N/A	
	NPC Kor-N-Seal	106/406 SERIES (NPC)			PRECAST MANHOLE ONLY
Tapping Saddles					
TAPPING SADDLES	VARIOUS	VARIOUS	MANUFACTURER'S SPECIFICATIONS	N/A	PIPEBURSTING ONLY
Trenchless (Pipe Rehabilitation)					
CURED-IN-PLACE-PIPE (CIPP)	INSITUFORM	VARIOUS	ASTM F1216/ASTM 5813	N/A	FOR PIPE REHABILITATION