

**DALLAS WATER UTILITIES
APPROVED MATERIALS BY TRADE NAME
WASTEWATER COLLECTION SYSTEM**

Revised November 2023

Wastewater Materials Review Committee - DWU- WMRC@dallascityhall.com

Mainline- Pipeline (Material)	Manufacturer ²	Pipe Specification	NCTCOG	Size	Joint Specification	Gasket Specification	Exception/ Notes
PVC (Solid Wall)	JM Eagle or Diamond Plastics	ASTM D3034 (SDR 35)	501.14, 501.17	6"-15"	BELL AND SPIGOT-ASTM D3212	ASTM F477	Min. PS= 46 psi
PVC (Solid Wall)	JM Eagle or Diamond Plastics	ASTM F679	501.14, 501.17	18"-48"	BELL AND SPIGOT-ASTM D3213	ASTM F477	Min. PS= 46 psi
PVC-Pressure Rated	JM Eagle or Diamond Plastics	ASTM D2241 (SDR 26)	501.15	6"-12"	BELL AND SPIGOT-ASTM D3139	ASTM F477	PS= 160 psi
PVC-Pressure Rated	JM Eagle or Diamond Plastics	AWWA C905 (DR 25)	501.15	14"-30"	BELL AND SPIGOT-ASTM D3139	AWWA C905/ ASTM F477	PR= 165 psi
RCP*	Thompson Pipe Group	ASTM C76	501.5	54"-120"	BELL AND SPIGOT-ASTM C361	NCTCOG 501.5.4	Class I, II, III, IV, V shall be specified
RCP*	Thompson Pipe Group	ASTM C361	501.5	54"-102"	BELL AND SPIGOT-ASTM C361	NA	Class A, B, C, D shall be specified
PCCP-Embedded Cylinder	NA	AWWA C301	501.4.5	54"-144"	BELL AND SPIGOT-AWWA C301	NA	
HDPE	Plasson USA (Spirolite)	ASTM F894	NA	18"-96"	BELL AND SPIGOT-ASTM 3212	ASTM F477	Specify DIPS Only with Min. PS= 46 psi
HDPE	Performance Pipe	ASTM F714 (DR 17)	NA	6"-30"	FUSION ASTM F2620	NA	Specify DIPS Only with Min. PS= 125 psi
HDPE-Pressure Rated	Performance Pipe	ASTM F 714 (DR 11)	NA	6"-30"	FUSION ASTM F2620	NA	Specify DIPS Only with Min. PS= 200 psi
RTRP	Hobas	ASTM D3262	501.24	18"-102"	BELL AND SPIGOT-ASTM D4161	ASTM F477	Min. SN=46 psi
RTRP	Flowtite	ASTM D3262	501.24	24" & Up	BELL AND SPIGOT-ASTM D4161	ASTM F477	Excluded from facilities & water projects
RPMP	NA	ASTM D3262	501.24	18"-102"	BELL AND SPIGOT-ASTM D4161	ASTM F477	Min. SN=46 psi
RTRP-Pressure Rated	Hobas or Ameron	ASTM D3754	501.24	18"-102"	BELL AND SPIGOT-ASTM 4161	ASTM F477	Min. SN=150 psi
RTRP-Pressure Rated	Hobas or Ameron	ASTM D3754	501.24	18"-102"	BELL AND SPIGOT-ASTM 4161	ASTM F477	Min. SN=150 psi
Vitrified Clay Pipe	NA	ASTM C700/ASTM C1209	NA	6"-48"	BELL AND SPIGOT-ASTM C425	ASTM C425	For use on Jacking, Boring, or Pipe Bursting Only
Ductile Iron	NA	AWWA C151 (Class 52)	501.7.COD	12"-64"	NA	NCTCOG 501.7.2.COD	For use on aerial crossing for encasement pipe only , STD Drawing 109
Lateral (Material)	Manufacturer	Pipe Standard	NCTCOG	Standard Drawing	Joint Specification	Gasket Specification	Exception/ Notes
PVC	NA	ASTM D3034 (SDR 35)	501.14, 501.17	319-326	BELL AND SPIGOT-ASTM D3212	ASTM F477	6"-12"
Cleanouts	Manufacturer ³	Model Number	NCTCOG	Standard Drawing	Specification		Exception/ Notes
Cleanout Lid	Bass and Hays, Star	339LID	502.2, 806.4.1.2	317-318	NA		

NOTE: DESIGN PLANS DESIGNATE ONLY ACCEPTABLE MATERIALS FOR PROJECT

* All RCP pipe must be installed with Approved Pipe Liner

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Manholes	Manufacturer ³	Standard	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Fiberglass	LF Manufacturing	TCEQ 217	502.1.1.2	305	ASTM 3753	All new manhole lids shall be 32" Minimum
Precast	Forterra	TCEQ 217	502.1.1.1	301	ASTM C478	
Precast	Turner	TCEQ 217	502.1.1.1	301	ASTM C478	
Cast in Place	NA	TCEQ 217	502.1.4.1.2	303	NA	
Precast Steel Reinforced Polymer Concrete Structure	U.S. Composite Pipe	TCEQ 217	NA		ASTM D 6783 and ASTM C 478	Use only when recommended by Engineer.
Pipe/Manhole Corrosion Protection	Manufacturer ³	Standard/Model	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Protective Liner- Epoxy	Raven Lining Systems	Raven 405	502.9	INSTALLATION SHALL BE PER MANUFACTURERS RECCOMENDATION AND TECHINCAL SPECIFICATION		
Protective Liner- Epoxy	Warren Environmental	S301	502.9		Approved only for wastewater manholes	
Protective Liner- Polyurethane	SprayRoq Lining Systems	ASTM D639/D790	502.9		N/A	
Protective Liner-Polyvinyl Chloride	Ameron International	T-Lock	502.9		For diameters of 30" and above. All PVC liners must be white or close to white in color.	
Precast Concrete Additive	Conshield Technologies	E.P.A. registration number 75174-2-47000	502.9		For use on 4.0' Pre-cast MH only	
Precast Concrete Additive	BASF Corp	MasterLife AMA 100	502.9		For use on 4.0' Pre-cast MH only	
Precast Concrete Additive	Penetron	BioMIC Solutions AEM5772, BioMIC Tint	502.9			
WW Access Device	Manufacturer ³	Model Number	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Wastewater Access Device	JM Eagle	WAC 15	502.2	328	NA	Min. 15" Riser Pipe
Wastewater Access Device	Quickstream Solutions	Poo Pit	502.2	328	NA	For use on 6"-12" mains only
Manhole Frame	Manufacturer ³	Standard	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Standard Frame	NA	NA	806.4.1.2	312-315	ASTM A48 Class 35B	
Pressure Frame	NA	NA	806.4.1.2	312-315	ASTM A48 Class 35B	
ALL NEW MANHOLES SHALL HAVE CORROSION PROTECTION						

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Manhole Lid/Cover	Manufacturer ³	Model Number	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Standard 24"	Bass and Hays	BH40024C10	806.4.1.2	312A	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	Not for use on new construction
Standard 24"	Accucast	220001	806.4.1.2	312A	ASTM A48-94A, Class 35B, Cast Iron Only Must have Bituminous Coating	Not for use on new construction
Standard 24"	East Jordan Iron Works	2024Z1(frame) 2024A1(Cover)	806.4.1.2	312A	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	Not for use on new construction
Standard 32"	Bass and Hays	V1420DRING, V1480LID	806.4.1.2	312	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 32"	Accucast	211007	806.4.1.2	312	ASTM A48-94A, Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 32"	Accucast	211009	806.4.1.2	312	ASTM A48-94A, Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 32"	East Jordan Iron Works	V1420/1480Z(Frame) 1480A(Cover)	806.4.1.2	312	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 32"	SIP Industries	4320	806.4.1.2	312	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 32"	Star Pipe	MH32DWWCL35	806.4.1.2	312	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 40"	Bass and Hays	122540RING, 122540LID	806.4.1.2	315	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Standard 40"	East Jordan Iron Works	BH 1225 40(Frame & Cover)	806.4.1.2	315	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 24"	Bass and Hays	38024P10	806.4.1.2	313A	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	Not for use on new construction
Pressure 24"	East Jordan Iron Works	V2386 (Frame & Cover)	806.4.1.2	313A	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	Not for use on new construction
Pressure 32"	Bass and Hays	V1420DWT	806.4.1.2	313	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 32"	Accucast	210024	806.4.1.2	313	ASTM A48-94A, Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 32"	Accucast	211023	806.4.1.2	313	ASTM A48-94A, Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 32"	East Jordan Iron Works	V1420/1480ZPT (Frame), 1480APT (Cover)	806.4.1.2	313	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 32"	SIP Industries	4327	806.4.1.2	313	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 32"	Star Pipe	MH32DWTCL35	806.4.1.2	313	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 40"	East Jordan Iron Works	BH 1225 40PT(Frame & Cover)	806.4.1.2	314	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	
Pressure 40"	Bass and Hays	122540WT	806.4.1.2	314	ASTM A48 Class 35B, Cast Iron Only Must have Bituminous Coating	

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Trenchless-Rehab	Manufacturer³	Standard	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Cured in Place Pipe (CIPP)	Insituform	NA	NA	NA	ASTM F1216/ASTM 5813	For use on rehab
Casing Spacers	Manufacturer³	Model Number	NCTCOG	Standard Drawing	Specification	Exception/ Notes
CASING SPACER	Advance Products and Systems	Stainless Model SSI	503.2.2.1	108, 109	Stainless Only	N/A
CASING SPACER	PSI	Stainless Model	503.2.2.1	108, 109	Stainless Only	N/A
Wastewater Valve	Manufacturer³	Model Number	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Backwater Valve	Oatey	43900- 43909	NA	NA	NA	
Other	Manufacturer³	Model Number	NCTCOG	Standard Drawing	Specification	Exception/ Notes
Grade Adjustment Riser	Bass and Hays	NA	502.1.2, 502.1.4.5	401, 412	NA	
Drop Bowl	Reliner/Duran, Inc	Inside Drop Bowl	NA	307	NA	
Manhole to Pipe Connectors	A-LOK	A-lok Series	NA	310	ASTM C923	
Manhole to Pipe Connectors	NPC Kor-N-Seal	106/406 series (NPC)	NA	310	ASTM C923	Precast Manholes Only
Chimney Seal	Cretex Specialty	Classic Internal Chimney Seal	NA	327	NA	
Rubber Sleeve Coupling	Fernco	NA-UPC approved	NA	320	NA	For Clay or Concrete Pipe Only
PVC Adapter Coupling	JM Eagle or Diamond Plastics	NA	NA	320	NA	For PVC Pipe
Tapping Saddle	Fernco	Flexible Tap Saddle (TSW 6")	NA	NA	NA	Pipe bursting Only
Liner Plate	Contech Cont.Product, Inc	Contech Tunnel Liner Plate	501.13	NA	NA	
Vortex Flow Insert	IPEX	Vortez Flow	NA	NA	NA	Drop Manholes Only
Manhole Insert	Doug Meadows	No Flow-Inflow Manhole Dish/Insert	NA	NA	ASTM D 1248	

NOTES

UNLESS OTHERWISE IDENTIFIED BY SPECIFICATION OR STANDARD, NCTCOG STANDARDS APPLY TO INSTALLATION

FOR STANDARD DRAWING AND/OR SPECIFICATIONS NOT LISTED OR LISTED AS NA, REFER TO MANUFACTURER'S SPECIFICATIONS

ALL ITEMS NOT ON THIS LIST NEED APPROVAL BY OWNER BEFORE PLACEMENT INTO SYSTEM

FOR ANY MATERIALS BELIEVED TO BE APPROVED BY COMMITTEE BUT NOT SHOWN ON THE APPROVED MATERIALS LIST, PLEASE CONTACT WASTEWATER MATERIAL REVIEW COMMITTEE CHAIRPERSON AT DWU-WWMRC@DALLASCITYHALL.COM FOR FURTHER CLARIFICATION.