



**MSDGC Approved Pipe Materials**  
Last Updated April 29, 2024

**Standard Force Main Pipe Material, Open Cut Installation (Trenchless as per design)**

Pipe	Allowable Joints	Installation	Bedding Class	Lining Types	Pipe Size													
					3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"		
PVC/AWWA C900 DR as per design	ASTM D3139- Restrained joints when needed	ASTM D2321	I		Allowable Cover*	35'	35'	35'	35'	35'								
			II			14'	14'	14'	14'									
Ductile Iron Pipe (DIP) AWWA C151	AWWA C111	AWWA C600	Acc. No. 49032	Cement AWWA C104 Protecto 401 Polyethylene		RWP as per design**												

\*Allowable Cover is based on bedding and compaction per Installation Standard

\*\*Design engineer to use manufacturer's design guidelines to determine allowable cover before including in contract

**Standard Low Pressure Sewer System (LPSS) Pipe Material**

Pipe	Allowable Joints	Installation	Bedding Class	Lining Types	
HDPE ASTM F714	ASTM F2620 ASTM 1290	ASTM D2321, ASTM F1962	II		As per design**, Typically SDR 11 IPS
PVC ASTM D2241	ASTM D2672, ASTM D3139	ASTM D2321	II		As per design**, Typically SDR 21 IPS PVC

\*\*Design engineer to use manufacturer's design guidelines to determine allowable cover before including in contract

**Conditionally Approved Gravity Sewer Pipe (as of July 2, 2014)**

Pipe	Allowable Joints	Installation	Bedding Class	Lining Types	Pipe Size																		
					12"	14"	15"	16"	18"	20"	21"	24"	27"	30"	36"	42"	48"	60"	66"	72"	78"	84"	90"
"Weholite" HDPE ASTM F894	Mechanical Coupling Band with ASTM D3212 seals, or Field Fused Joints	ASTM D2321	I II		Allowable Cover	18" - 120" As per design** - Minimum 160 Ring Stiffness Constant (RSC) Required																	
"Pro 21" PVC ASTM F1803	Flexible Elastomeric Seals, ASTM D3212	ASTM D2321	I II		Allowable Cover													As per design**					
"Duramaxx" Steel Reinforced Thermoplastic Ribbed Pipe (SRTRP) ASTM F2562	Flexible Elastomeric Seals, ASTM D3212	ASTM D2321	I II		Allowable Cover	24" - 120" As per design**																	

\*\*Design engineer to use manufacturer's design guidelines to determine allowable cover before including in contract  
Conditionally Approved Pipes will not be accepted on Design-Build projects.