



SHOP DRAWING REVIEW FORM Date Received:

Project Title:

Project Number:

Submitted By:

Contractor: Owner:

Address: Address:

Attention:

No. of Copies	Spec Section	Description	Action Taken

The action designated above is in accordance with the following legend:

A – No Exceptions	B – Make Corrections Noted	C – Amend & Resubmit 1. Inadequate information 2. No reproducible submitted 3. Copies illegible 4. Not enough copies submitted 5. Wrong sequence number 6. Wrong submittal suffix 7. See comments
D – Rejected – See Marks	E – Engineer’s Review Not Required	
	1. Submittal not required 2. Submittals retained for informational purposes 3. Information reviewed and approved on prior submittal 4. See comments	

Comments:

By: Date:

City Staff have reviewed only submitted and identified materials. Any and all supplemental materials needed for the proper assembly, construction and/or installation of the completed improvement must be submitted to the City for review and approval prior to installation. Nonetheless, City approval MUST NOT in any way be construed as an endorsement, warranty or guaranty of the fitness of a material for its use or deployment by contractor.

EQUIVALENT MATERIALS LIST



APPROVED BY:

RECOMMENDED:

REV	DESCRIPTION	BY	APP'D	DATE

CITY OF SPRING HILL

EQUIVALENT
MATERIALS
LIST

Equivalent Materials Checklist

Item	Required By City	Submitted By Applicant		Notes
		From List	Other	
Sanitary Sewer				
Ductile Iron Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ductile Iron Pipe Joints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PVC Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PVC Pipe Joints	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewer Force Main Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewer Force Main Fittings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewer Force Main Valves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewer Force Main Locating Wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewer Force Main Air/Vacuum Release Valve Assembly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lateral Branches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lateral Branches Fittings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sewer Locating Tape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manhole Structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manhole Inserts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ladder Bars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gray Iron Castings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Casing Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Service Assemblies				
Service Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Corporation Cock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Meter Box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Meter Yokes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water Meter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air & Vacuum Release Valve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tapping Saddle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**CITY OF SPRING HILL
APPROVED MATERIALS LST FOR
SEWER FACILITIES
(JULY 2022)**

Item	Description	Manufacturer
SANITARY SEWER (GRAVITY)		
ADAPTER, FLANGE COUPLING	Mechanical x Flange.	Dresser 127
AIR/VACUUM VALVE ENCLOSURE	Min. 3/16" Thick Steel, Clam Shell Hinged	Pipeline Products VCDD-1624
ANODE, MAGNESIUM	High or Standard Potential Anode	Not specified
DUCTILE IRON PIPE	Min. Class 250 Thickness, w/ push-on joints conforming to ASTM A746	Not Specified
DUCTILE IRON PIPE JOINTS	Gasket type joints for bell and spigot ductile iron pipe designed to comply with ANSI A2111	Not Specified
PVC PIPE	Meet req. of ASTM 03034, SDR 26, use for gravity sewer conduit, standard length of 12.5' plus or minus 1"	Not Specified
PVC PIPE JOINTS	Meet requirements of ASTM 03212. Pipe and fittings shall have integral bell w/ elastomeric seal joint	Not specified
COMPRESSION COUPLING	Natural synthetic rubber, comply w/ ASTM C425	Not specified
SEWER PIPE (small)	SDR 26 PVC for lines 18" and smaller	Not Specified
SEWER PIPE (large)	SDR 26 PVC or ASTM 679 PS 115 for lines 21" or greater, use Class 250 Ductile Iron at depths greater than 20'	Not Specified
LATERAL BRANCHES	Same material as the main sewer w/ 4" inside diameter for residential and 6" diameter for commercial	Not Specified
CASING PIPE	Steel approved by AREA specs, minimum yield strength of 35,000 psi	Not specified

SEWAGE FORCE MAINS		
DUCTILE IRON PIPE	Cast iron, comply w/ ASTM E8-61T, able to withstand hydrostatic pressure of 500 psi, class 250	Not Specified
PUSH-ON SINGLE GASKET JOINT	Conform to ANSI A21.51/AWWA C151, UL approved, able to withstand operation pressure of 200 psi	Not Specified
PVC PIPE	Class 12454-B (PVC 1120)	Not specified
PVC PUSH-ON JOINTS	Grooved where continuous molded rubber ring gaskets can be placed, vulcanized or synthetic rubber	Not specified
FORCE MAINS	Min. 4" diameter ductile iron pipe, cement-mortar lined, class 250, slip-on type joint meeting AWWA Standard C151	Not Specified
MANHOLE	Precast or monolithic concrete that conform to ASTM C478 w/ concentric cones unless otherwise approved. Xpex add mixture to be batch mixed with concrete prior to casting of manhole.	Not specified
MORTAR	1 part Portland cement, 2 parts sand thoroughly mixed in a tight box w/ water added gradually	Not specified
GRAY IRON CASTINGS	Cast iron conforming to the requirements of Class 30, ASTM A48, machined so cover rests securely in the frames with no rocking and in contact w/ frame flanges the entire perimeter	Not specified
PLASTIC GASKET FOR PRECAST MANHOLES	Preformed meeting requirements of FS SS-S-00210, "Sealing Compound, Preformed Plastic for Pipe Joints" Type I, rope form	Not specified

MANHOLE INSERTS	Ultra-high-density polyethylene copolymer material that meets ASTM specs D 1248, Class A, Category 5, Type 111 w/ min. impact brittleness temp of -180-degree F	Not specified
LADDER BARS	Aluminum alloy weighing 2.2 lbs or .5" steel reinforced rod encapsulated in polypropylene plastic. Top of casting to first step shall not exceed 24"	Not specified

**CITY OF SPRING HILL
APPROVED MATERIALS LIST FOR
SERVICE ASSEMBLIES
(JULY 2022)**

Item	Description	Manufacturer
CORPORATION COCK	Solid bronze suitable for a compression flange, similar to Mueller H-15000, threads shall be Mueller	Not specified
SERVICE PIPE	¾" PEX meeting ASTM F876 and SDR9 PEX tubing size, or polyethylene meeting SDR9 sizing, CSA B137.5, ASTM F876 & F877, NSF standard 14 &16	Not specified
METER YOKES	5/8" x ¾" w/ compression fittings shall be Mueller H-1401-2 w/ H-14227 and H-14222 ¾" tailpieces	Not specified
WATER METERS	Frostproof, sealed register, displacement type w/ bronze cast, straight read in gallons, meter 1-1/2" and larger shall have flanged connections and shall be Badger M25	Badger Meters Inc.
METER BOX	5/8" x ¾" assemblies shall be precast concrete, Brooks No. 36, 16" deep w/ No. 36-H cover, box will have one course of brick as base	Not specified
TAPPING SADDLES	Brass, threaded to accept the corporation cock, no taps larger than 1" shall be made in any size pipe without approval by the A/E	Not specified
CASING PIPE	Steel approved by AREA specs, minimum yield strength of 35,000 psi	Not specified
AIR & VACUUM RELEASE VALVES		APCO