



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.

MATERIALS LIST

The design and construction of all water, wastewater, stormwater, and transportation facilities and conveyance systems within the City of Spring Hill, TN must comply with the guidelines set forth by federal, state, and local codes, including the Uniform Development Code, Water Specifications, and Wastewater Specifications. This "Approved Materials List" states the City's preferred products and materials. However, different materials may be used upon approval by the City that the materials are of "as-equal" materials to those listed. It is understood by the contractor, engineer of record, and developer that the City of Spring Hill has the right to reject materials and products that have been submitted for use that are not deemed "as-equal". Materials planned to be utilized in the field must be submitted to the City a minimum of 10 days prior to their use for adequate City review time. The use of materials not approved by the City is not recommended and is done at the contractor's sole expense and responsibility. The City bears no responsibility or cost if the products are deemed not "as-equal" and must be removed.

	APPROVED BY:					CITY OF SPRING HILL	
	RECOMMENDED:					EQUIVALENT MATERIALS LIST	
	REV	DESCRIPTION	BY	APP'D	DATE		

Equivalent Materials Checklist
Reference Water Spec Book for details.

Item	Required By City	Submitted By Applicant		Notes
		From List	Other	
Water				
Ductile Iron Pipe Class 52 or Class 350	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PVC Pipe SDR 21 or C900	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pex Pipe 2" stainless steel inserts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pex Pipe 1" plastic inserts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pex Pipe 3\4" plastic inserts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3/4", 1" and 2" Water Service Lines SDR 9 Pex Piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2" Meter Setter with Bypass Ford VBB77-15B-11-77 or Mueller B-2423-2 with Bypass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1" Meter Setter Meter yoke with 12" Riser height to include check valve, angle stop and locker. With pack joint inlet connection and dual-purpose union swivel. 1" Ford VBHH74-12W-4144	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3/4" Meter Setter Meter yoke with check valve and angle stop with locker-Mueller H- 1401-2 Or Ford VBH72-7W-4133Q	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Buttery Valves Required for 12" and greater mainline sizes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water Valve Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water Gate Valves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Elevation Hanger Assembly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Typical Hanger Assembly Detail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Casing Pipe Detail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Valve Vane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Valve Shift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Valve Operator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Water Main Valve Box Cast Iron box and lid John Bouchard & Sons 8006 or Equal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3\4" Corporation Cock Muller H-15000 PSI rating of 300PSI rating or equal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tapping Saddles Mueller 13400 Series	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fire Hydrants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Concrete Footer Blocks 1 Cubic Foot Min	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2" Tapping Saddle Mueller 13400 series or equal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1" Tapping Saddle Mueller 13400 series or equal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3\4" Tapping Saddle Mueller 13400 series or equal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Steel Encasement Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2" Corporation Cock Muller H-15000 PSI rating of 300PSI rating or equal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1" Corporation Cock Muller H-15000 PSI rating of 300PSI rating or equal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3" Blue Water Caution Tape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12 Gauge Shielded Tracer Wire Solid Strand Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6" and 8" Meter Vaults	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3" Water Meter Vault John Bouchard & Sons 8121 Concrete Meter Vault with 3 Frames and cover Lid With 2" Reader Hole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2" Water Meter Vault John Bouchard & Sons 8110 or equal Concrete Meter Vault with 3 Frames and cover Lid With 2" Reader Hole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1" Water Meter Box Brooks 37H Concrete Meter Box and Plastic Lid With 2" Reader Hole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3/4" Water Meter Box Brooks 37H Concrete Meter Box and Plastic Lid With 2" Reader Hole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Water Meter Setters/Yoke Mueller H-1401-2 or Ford VBH72-7W-4133Q with tailpipes.	<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
POTABLE WATER
(JULY 2022)**

Item	Description	Manufacturer
VALVES ON WATER LINES 12" AND LARGER	Butterfly valves, equivalent standards of AWWA C504, fitted with operators designed to accept metro valve box on the left	Dresser/M&H/Clow/McWane Manufacturing Company No. 450 butterfly valve, Henry Pratt Company "Groundhog," American Darling Class 150B, or equal.
VALVES ON WATER LINES 10" AND SMALLER	Double disc, parallel seat, iron body bronze type or resilient wedge, iron gate with bond-in-place Nitrile elastomer works equally well. Equivalence with AWWA C500	Mueller A2380-20, American Darling No. 55, Clow F-5065, or American Flow Control Series 2500, or equal
DUCTILE IRON PIPE	Cast iron, meets req. for nodular iron castings of ASTM E8. Thickness defined by ANSI A21.50/AWWA C150 except pipe w/ diameter of 12" or less have thickness of .25" and pipes w/ diameter of 14" or more shall have wall thickness of .28"	Not specified
PUSH-ON SINGLE GASKET JOINT	UL approved and able to withstand 200 psi of operating pressure	American Cast Iron Pipe Company, US Pipe and Foundry Company, Clow Corporation
PVC PIPE	Class 12454-B (PVC 1120), defined by ASTM D1784, all class 200, 250, or 315 pipe shall have NSF approval, manufactured in accordance w/ ASTM D2241	Not specified
O-RING SEAL STUFFING BOXES	Open to the left of valve	Mueller A 2380-20, American Darling No. 55, Clow F-5065, American Flow Control Series 2500, or equivalent
VALVE VANE	Cast iron ASTM A48, Class 40, and have rubber seat mechanically secured with an integral 18-8 stainless steel clamp ring and a 18-8 stainless steel nylon locked seat	Not specified
VALVE SHAFT	One piece extending full size through the valve disc	Not Specified

VALVE OPERATOR	Traveling nut type, designed to withstand 300 ft-lbs at fully opened or fully closed position, resist head pressure submerged 25 ft	Not Specified
FLANGED PIPE		
VALVE BOX	Centered and plumb over wrench nut of the valve w/ box cover flush w/ the surface of the finished pavement	John Bouchard & Sons No. 8006
STEEL ENCASEMENT PIPE	The casing pipe shall be of steel meeting the latest approved American Railway Engineering Association "Specifications" for Pipelines for Carrying Flammable and Nonflammable Substances." The steel casing pipe shall have a minimum yield strength of 35,000 PSI and shall have a minimum wall thickness shown in table 02725-1 2.1 of the Spring Hill Water Spec.	Not Specified
EXTERIOR PIPE COATING	When the casing pipe is installed without the benefit of a protective coating, the wall thickness shown above shall be increased to the nearest standard size, which is a minimum of 0.063 inches greater than the thickness shown.	Not Specified
INTERIOR PIPE COATING		
FIRE HYDRANT	Comply in all respects to AWWA C502, compression type w/ main valve opening against the pressure, main valve opening no less than 4.5" in diameter and made a balata, nozzle 18" above ground	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