

**PRE-APPROVED MATERIALS LIST**

Frederick County Contract Number: \_\_\_\_\_

Inspection Agreement Number: \_\_\_\_\_

**Date:** \_\_\_\_\_

**To:** Division of Water and Sewer Utilities (DWSU)  
ATTN: Charles Hutchinson  
Department of Engineering and Planning  
4520 Metropolitan Court  
Frederick, Maryland 21704

**From:** Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State Zip \_\_\_\_\_

**Re:** Project Name: \_\_\_\_\_

**Certification Statement**

By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

\_\_\_\_\_  
Contractor Signature                          Date

- Note 1: Please denote (highlight, check numbers, or otherwise identify) the materials from the following list that you intend to use on this project.
- Note 2: If you desire to use materials that DO NOT appear in the following list, provide substitution information in accordance with Section 1200 of the General Conditions and Standard Specifications for Water Mains, Sanitary Sewers and Related Structures. Failure to provide complete information will result in delays in the approval process and may affect the project schedule.
- Note 3: This list and all substitution information shall be submitted to the Division of Water and Sewer Utilities (DWSU) **with the Proposal Package.**

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**SANITARY SEWER**

<b>PVC Pipe</b>			
<b>Specification Section:</b> 2570			
<b>Standard Details:</b> 1.1, 2.1, 4.1, 201.1, 201.2, 201.3, 201.4, 201.5, 201.7, 201.8, 202.03,203.1, 206.1, 206.2, 206.4, 208.1, 209.1, 209.2, 210.1, 211.1, 213.2,213.3, 217.1			
<b>Standard:</b> SDR35, ASTM D3034 or ASTM F679; SDR26, ASTM D3034 or ASTM D2241			
<b>Approved Manufacturer/Product</b>	<b>Type</b>	<b>Standard</b>	<b>Size</b>
<input type="checkbox"/> Diamond Plastics Corp			
<input type="checkbox"/> Extrusion Technologies, Inc.			
<input type="checkbox"/> J-M Manufacturing Co., Inc			
<input type="checkbox"/> National Pipe Co.			
<input type="checkbox"/> Plastic Trends, Inc.			
<input type="checkbox"/> North American Pipe Corp.			

<b>PVC Gasketed Fittings</b>			
<b>Specification Section:</b> 2570			
<b>Standard Details:</b> 115.1, 201.3, 201.4, 210.1, 212.1, 213.2			
<b>Standard:</b> SDR35, ASTM D3034 or ASTM F679; SDR26, ASTM D3034 or ASTM D2241			
<b>Approved Manufacturer/Product</b>	<b>Part#</b>	<b>Catalog #</b>	<b>Size</b>
<input type="checkbox"/> GPK Products, Inc.			
<input type="checkbox"/> The Harrington Corp.			
<input type="checkbox"/> J-M Manufacturing Co., Inc.			
<input type="checkbox"/> Multi Fittings Corp.			
<input type="checkbox"/> Plastic Trends, Inc.			

<b>Precast Concrete Manholes</b>			
<b>Specification Section:</b> 3360			
<b>Standard Details:</b> 201.1, 201.2, 201.3, 201.4, 201.5, 201.6, 201.7, 201.8, 202.2, 202.4			
<b>Standard:</b> ASTM C478, Type II Cement			
<b>Approved Manufacturer/Product</b>	<b>Detail</b>	<b>Size</b>	<b>Other</b>
<input type="checkbox"/> Americast			
<input type="checkbox"/> Atlantic Concrete Products, Inc.			
<input type="checkbox"/> Advanced Drainage Structures			
<input type="checkbox"/> C. R. Semler, Inc.			
<input type="checkbox"/> Terre-Hill			
<input type="checkbox"/> Plastic Trends, Inc.			
<input type="checkbox"/> Contractors Precast Corp.			

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<b>Concrete Grade Rings</b>	
<b>Specification Section:</b> 3360	
<b>Standard Details:</b> 5.3	
<b>Standard:</b> ASTM C478, Type II Cement. Thickness: Max. 6"; Min. 2". The top grade ring should be 2".	
Approved Manufacturer/Product	Thickness
<input type="checkbox"/> Americast	
<input type="checkbox"/> Atlantic Concrete Products, Inc.	
<input type="checkbox"/> Advance Drainage Structures	
<input type="checkbox"/> C. R. Semler, Inc.	
<input type="checkbox"/> Prism Precast Products, LLC	
<input type="checkbox"/> Contractors Precast Corp.	

<b>Precast Cleanout Blocks</b>		
<b>Specification Section:</b> 2570		
<b>Standard Details:</b> None, associated details 206.1, 206.2, 206.4, 208.1, 209.1, 209.2		
<b>Standard:</b> ASTM C478, Type II Cement.		
Approved Manufacturer/Product	Sizes to be used	Configurations
<input type="checkbox"/> Prism Precast Products, LLC		
<input type="checkbox"/> Mayer Brothers, Inc.		
<input type="checkbox"/> Atlantic Precast Products, Inc.		

<b>Manhole Frame and Cover; Lamp Hole Frame and Cover</b>				
<b>Specification Section:</b> 2570				
<b>Standard Details:</b> 5.1, 5.2, 208.1				
<b>Standard:</b> ASTM A48 Grade 30				
Approved Manufacturer/Product	Use			
	Frederick Co.	Sewer	Water	Private
<input type="checkbox"/> East Jordan Iron Works, Inc.				
<input type="checkbox"/> Capitol Foundry of Virginia, Inc.				
<input type="checkbox"/> Chesapeake Foundries, Inc.				

<b>Manhole Adapters</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b> 210.1, 212.1, 213.2	
<b>Standard:</b>	
Approved Manufacturer/Product	Supplemental Information
<input type="checkbox"/> Kor-N-Seal® NPC, Inc.	
<input type="checkbox"/> A-LOK Products, Inc.	
<input type="checkbox"/> Press-Boot® Press-Seal Gasket Corp.	

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<b>Sewer Service Saddles</b>				
<b>Specification Section:</b> 2570				
<b>Standard Details:</b> 205.1, 206.2				
<b>Standard:</b> Only if shown on the plans or approved by the DWSU				
<b>Approved Manufacturer/Product</b>	<b>Size</b>	<b>Type of Pipe</b>	<b>Part/Catalog #</b>	<b>Catalog Cut Incl.</b>
<input type="checkbox"/> Sealtite® The General Engineering Co.				
<input type="checkbox"/> Romac Industries, Inc., "CB"™				

<b>Non-Shrink Grout</b>	
<b>Specification Section:</b> 2570, 4200	
<b>Standard Details:</b> 201.1, 201.2, 202.3, 207.1, 210.1	
<b>Standard:</b> Type II Cement, Corp of Engineers CRD-588	
<b>Approved Manufacturer/Product</b>	<b>Supplemental Information</b>
<input type="checkbox"/> Thorite® Thoro System Products	
<input type="checkbox"/> Cem Patch	

<b>Butyl Rubber Sealant</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b> 5.3, 112.1	
<b>Standard:</b> AASHTO M-198, ¾" diameter	
<b>Approved Manufacturer/Product</b>	<b>Supplemental Information</b>
<input type="checkbox"/> Kent Seal®	
<input type="checkbox"/> Bidco Sealants, Inc.	
<input type="checkbox"/> ConSeal Concrete Sealants, Inc.	CS-102 (only)

<b>Asphalt Base Waterproofing</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b> 112.1	
<b>Standard:</b> MIL-C-82052; MIL -P-23236P Class 2	
<b>Approved Manufacturer/Product</b>	<b>Define manufacturer to be used</b>
<input type="checkbox"/> Clipper Ship® Foundation Coating	LN-12 or LN - 16
<input type="checkbox"/> Henry Foundation Coating	PR 175

<b>Ductile Iron Pipe – Force Main</b>		
<b>Specification Section:</b> 2570, 2550		
<b>Standard Details:</b>		
<b>Standard:</b> AWWA C151, C111, C104		
<b>Approved Manufacturer/Product</b>	<b>Size</b>	<b>Class</b>
<input type="checkbox"/> American Cast Iron Pipe		
<input type="checkbox"/> McWane Ductile		
<input type="checkbox"/> Griffin Pipe Products Co.		
<input type="checkbox"/> U.S. Pipe and Foundry Co.		

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<b>Pump Around Operations</b>		
<b>Specification Section:</b>		
<b>Standard Details: Shown on plans</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<b>Standard: As shown on approved plans</b>		
<b>Approved Vendors</b>	<b>Minimum Pump Rate</b>	<b>Number of Pumps</b>
<input type="checkbox"/> Sun Belt Rentals	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Capital Rentals	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Godwin Pumps	<input type="checkbox"/>	<input type="checkbox"/> Yes

<b>Jack-N-Bore Operations</b>		
<b>Specification Section: 2950</b>		
<b>Standard Detail: 211.1</b>		
<b>Standard: Casing – AWWA C-200; PVC pipe – ASTM D-3034, SDR35; ASTM F679, SDR35</b>		
<b>Approved Vendors</b>	<b>Casing Spacers</b>	<b>End Seals</b>
<input type="checkbox"/> Advance Products and Systems	<input type="checkbox"/>	<input type="checkbox"/> Models AWN &/or CAN
<input type="checkbox"/> Cascade Waterworks Manufacturing	<input type="checkbox"/>	<input type="checkbox"/> Model CCES
<input type="checkbox"/> Corrosion Control Products	<input type="checkbox"/>	<input type="checkbox"/> Models S, C, or W

<b>Additional Sewer Items</b>	
<b>Manufacturer &amp; Product</b>	<b>Specification &amp; Detail</b>

**WATER**

<b>Ductile Iron Pipe</b>			
<b>Specification Section: 2550</b>			
<b>Standard Details: 2.3, 101.1, 102.1, 103.1, 104.1, 105.1, 106.1, 109.1, 123.1</b>			
<b>Standard: AWWA C151, C111, C104; 3”-6” Class 54; 8” &amp; larger Class 52; 24” and larger approved by DWSU</b>			
<b>Approved Manufacturer/Product</b>	<b>Spec</b>	<b>Size</b>	<b>Class</b>
<input type="checkbox"/> American Cast Iron Pipe			
<input type="checkbox"/> McWane Ductile			
<input type="checkbox"/> Griffin Pipe Products Co.			
<input type="checkbox"/> U.S. Pipe and Foundry Co.			

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<b>Ductile Iron Fittings</b>				
<b>Specification Section:</b> 2550				
<b>Standard Details:</b> 102.1, 103.1, 104.1, 105.1, 107.1				
<b>Standard:</b> AWWA C153, C111, C104; Class 350 or AWWA C110, C151; Class 250				
<b>Approved Manufacturer/Product</b>	<b>Spec</b>	<b>Size</b>	<b>Class</b>	<b>Type</b>
<input type="checkbox"/> SIGMA Corporation.				
<input type="checkbox"/> Tyler/Union Foundry Co.				
<input type="checkbox"/> U.S. Pipe and Foundry Co.				
<input type="checkbox"/> Griffin Pipe Products Co.				
<input type="checkbox"/> Star Pipe Products				

<b>Valves</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 108.1, 108.2, 112.1, 115.1, 116.1, 117.1	
<b>Standard:</b> 2” Resilient seat, open left, threaded, AWWA C509; 4”-12” Resilient seat, open left, MJ AWWA C509; 16” and larger, Butterfly Valve, open left, with indicator MJ AWWA C504, Butterfly Valve – Max. test 200psi. All exposed nuts/bolts must be stainless steel on all valves.	
<b>Approved Manufacturer/Product</b>	<b>Define sizes to be used</b>
<input type="checkbox"/> Kennedy Valve (McWayne)	
<input type="checkbox"/> Mueller Company	
<input type="checkbox"/> M & H Valve Co. (McWayne)	
<input type="checkbox"/> Pratt Valve	
<input type="checkbox"/> Clow Valve Company(McWayne)	
<input type="checkbox"/> Crispin F-Flo Butterfly Valves Only	
<input type="checkbox"/> American Flow Control Series 2500	

<b>Fire Hydrants</b>			
<b>Specification Section:</b> 2550			
<b>Standard Details:</b> 108.1, 108.2			
<b>Standard:</b> 6” MJ inlet, 51/4” valve, 2-2 1/2” and 1-4 1/2” nozzles with N.S. threads, 1 1/2” open left pentagonal operating nut, painted safety yellow.			
<b>Approved Manufacturer/Product</b>	<b>Standard</b>	<b>Dewatering</b>	<b>Bury depth</b>
<input type="checkbox"/> American Darling B-84-B-5			
<input type="checkbox"/> Kennedy Valve, Model K81 (Only models allowed in Walkersville)			
<input type="checkbox"/> Mueller Company, Model A-423 (Only models allowed in Walkersville)			
<input type="checkbox"/> Clow Medallion			

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<b>Brass Pipe and Fittings</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 115.1, 116.1	
<b>Standard:</b> AWWA C800-01, Regular Strength	
Approved Manufacturer/Product	Supplemental Information
<input type="checkbox"/> Merit Brass Company	
<input type="checkbox"/> Trenton Pipe Nipple Co.	

<b>Joint Restraint, Mechanical Joint</b>				
<b>Specification Section:</b> 2550				
<b>Standard Details:</b> 109.1				
<b>Standard:</b> 3” – 16”, 350 psi; 18” & larger, 250 psi				
Approved Manufacturer/Product	Type	Series	Size	Pressure
<input type="checkbox"/> Ebaa Iron, Inc.	<input type="checkbox"/> Megalug®	<input type="checkbox"/> 1100		
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> Uni-Flange®	<input type="checkbox"/> 1400		
<input type="checkbox"/> SIGMA Corporation	<input type="checkbox"/> One-Lok, SDL			
<input type="checkbox"/> Star Pipe Products	<input type="checkbox"/> Star Grip	<input type="checkbox"/> 3000		

<b>Joint Restraint, Push Joint</b>			
<b>Specification Section:</b> 2550			
<b>Standard Details:</b>			
<b>Standard:</b> Must be used with the appropriate fittings and pipe; Bells to be painted red. Not to be used in casings.			
Approved Manufacturer/Product	Type	Sizes	Pressure rating
<input type="checkbox"/> American Cast Iron Pipe Co.	<input type="checkbox"/> Fast Grip Gasket	<input type="checkbox"/> 4”-12”	<input type="checkbox"/> 350 psi
		<input type="checkbox"/> 14”	<input type="checkbox"/> 250 psi
<input type="checkbox"/> Griffin Pipe Products Co.	<input type="checkbox"/> Talon RJ Gasket	<input type="checkbox"/> 4”-16”	<input type="checkbox"/> 350 psi
<input type="checkbox"/> The Gripper Gasket Co.	<input type="checkbox"/> Gripper Gasket	<input type="checkbox"/> 3”-16”	<input type="checkbox"/> 350 psi
<input type="checkbox"/> U.S. Pipe and Foundry Co.	<input type="checkbox"/> Field Lok 350 Gasket	<input type="checkbox"/> 4”-12”	<input type="checkbox"/> 350 psi
<input type="checkbox"/> Tyler Pipe/Union Foundry	<input type="checkbox"/> Clow Super Lock	<input type="checkbox"/> 6”-36”	<input type="checkbox"/> 350 psi

<b>Valve Boxes</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 108.1, 108.2, 112.1, 114.1, 116.1	
<b>Standard:</b> Cast Iron, Screw Type, 5 1/4” shaft, ASTM A48, Grade 30, Bituminous coating; slide or slip type is NOT acceptable	
Approved Manufacturer/Product	Number
<input type="checkbox"/> Bingham & Taylor	<input type="checkbox"/> 4905 & 4906
<input type="checkbox"/> Capitol Foundry	<input type="checkbox"/> VB-FRED
<input type="checkbox"/> East Jordon Iron Works	<input type="checkbox"/> 8550 Series
<input type="checkbox"/> SIGMA Corporation	<input type="checkbox"/> VB-261 thru VB 268
<input type="checkbox"/> Tyler Pipe / Union Foundry	<input type="checkbox"/> 6850 Series

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<b>Tapping Sleeve</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 117.1		
<b>Standard:</b> Working Pressure, 200 psi unless otherwise noted on plans or specifications.		
Approved Manufacturer/Product	Number	Sizes
<input type="checkbox"/> American Flow Control	<input type="checkbox"/> Series 1004 <input type="checkbox"/> Series 2800	14" – 36" 4" – 16"
<input type="checkbox"/> Tyler Pipe	<input type="checkbox"/>	6" – 12"
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> H-615	4" – 24"
<input type="checkbox"/> M&H Valve	<input type="checkbox"/>	6" – 12"

<b>Copper Tubing</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 110.1, 110.2, 110.3, 110.4, 111.1	
<b>Standard:</b> Seamless, Type K, Soft, ASTM B88. No joints allowed between main and meter vault.	
Approved Manufacturer/Product	Define sizes to be used
<input type="checkbox"/> Cambridge Lee Industries, Inc.	
<input type="checkbox"/> Mueller Copper Tube Co.	

<b>Corporation Stop</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 113.1		
<b>Standard:</b> Ball Valve, 300 psi working pressure Gripper Style. For services larger than one inch use tapped tees is required.		
Approved Manufacturer/Product	Number	Defines sizes to be used
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> FB600 <input type="checkbox"/> FB1000-Q <input type="checkbox"/> FB1700-7	
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 4701B <input type="checkbox"/> 4701BT <input type="checkbox"/> 3149B	
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> B-25000	



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<b>Angle Ball Valves</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.1, 110.2, 110.3, 110.4, 115.1		
<b>Standard:</b> Ball Valve, 300 psi working pressure, Locking Wing		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.,	<input type="checkbox"/> BA91-323W <input type="checkbox"/> BA91-444W <input type="checkbox"/> BA94-323W-Q <input type="checkbox"/> BA94-444W-Q	<input type="checkbox"/> ¾" <input type="checkbox"/> 1" <input type="checkbox"/> ¾" <input type="checkbox"/> 1"
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 4602BYT <input type="checkbox"/> 4604BY <input type="checkbox"/> 4604BY	<input type="checkbox"/> ¾" x ¾" x 02 <input type="checkbox"/> ¾" x ¾" x 02 <input type="checkbox"/> 1" x 1" x 04
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> B-24273 <input type="checkbox"/> B-24273 <input type="checkbox"/> B-24278 <input type="checkbox"/> B-24278	<input type="checkbox"/> 5/8" x ¾" x ¾" <input type="checkbox"/> 1" <input type="checkbox"/> 5/8" x ¾" x ¾" <input type="checkbox"/> 1"

<b>Iron Meter Yoke</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.1, 110.2, 110.3, 110.4		
<b>Standard:</b>		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> Y502 <input type="checkbox"/> Y504	
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 14-2 <input type="checkbox"/> 14-4	
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> H-5020 <input type="checkbox"/> H-5040	

<b>Expansion Connection</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.1, 110.2, 110.3, 110.4		
<b>Standard:</b>		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> EC-23 <input type="checkbox"/> EC-4	<input type="checkbox"/> ¾"
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 14-2EHG <input type="checkbox"/> 14-4EHG	<input type="checkbox"/> ¾" <input type="checkbox"/> 1"
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> H-14234	<input type="checkbox"/> ¾", 1"

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<b>Cartridge Style Angle Dual Check Valve</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.1, 110.2, 110.3, 110.4		
<b>Standard:</b>		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> HHCA94-323-Q <input type="checkbox"/> HHCA91-444	
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> H-14466-A-05	
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 12W3YQ 33 <input type="checkbox"/> 12W4YQ 44	<input type="checkbox"/> ¾"

<b>Connector Assembly With Plug</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.1, 110.2, 110.3, 110.4		
<b>Standard:</b>		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> C14-33-Q <input type="checkbox"/> C14-44-Q <input type="checkbox"/> C14-66-Q <input type="checkbox"/> C14-77-Q	
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 4754T	
<input type="checkbox"/> Mueller Company,	<input type="checkbox"/> H-15451	

<b>Branch Pieces</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.1		
<b>Standard:</b> 1" CTS x Two ¾" MIP, 71/2" Spacing		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> U48-43	
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 08UTM	
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> H-15363	

<b>Tandem Setters for Individual PRV</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.2, 110.3		
<b>Standard:</b>		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> A-95095 <input type="checkbox"/> TYA-4-95095-059	<input type="checkbox"/> ¾" <input type="checkbox"/> 1"
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> 215B5020-R6A00	
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 14L2 WDQQ332 X 996	

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<b>Pressure Reducing Valve (PRV)</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.5		
<b>Standard:</b>		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> CLA-VAL, Automatic Control Valves	<input type="checkbox"/> Model 990	<input type="checkbox"/> ¾" with two reducing bushings <input type="checkbox"/> 1"

<b>Concrete Meter Vaults</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 110.1 thru 110.5	
<b>Standard:</b> CL-1, ASTM C76 and ASTM C141	
<b>Approved Manufacturer/Product</b>	<b>Sizes to be used</b>
<input type="checkbox"/> Advanced Drainage Structures	
<input type="checkbox"/> Mayer Brothers	
<input type="checkbox"/> Prism Precast Products	

<b>Meter Vault Covers</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 110.5		
<b>Standard:</b> All holes for electronic meter readers must be 2" actual dimension.		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> A53TP <input type="checkbox"/> A53TTPP <input type="checkbox"/> A53HHT, extra heavy duty <input type="checkbox"/> EXT-24, Extension Ring	<input type="checkbox"/> 10T <input type="checkbox"/> 10TT, Pit Ring & Lid <input type="checkbox"/> 11T, heavy duty <input type="checkbox"/> FL-24 Flange, use with Pit Ring
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 74M53ATP [74M32ATP] <input type="checkbox"/> 74M53ATTPP <input type="checkbox"/> 74MX2, Extension Ring <input type="checkbox"/> 74MPR10TP	<input type="checkbox"/> 74MPR10TTPP <input type="checkbox"/> 74MPR11TP <input type="checkbox"/> 74MPR11TTPP
<input type="checkbox"/> Vestal Manufacturing Enterprises, Inc.	<input type="checkbox"/> RMRC-215-L W/SN W/TR <input type="checkbox"/> RMRC-215-L W/SN W/2TR <input type="checkbox"/> ER-2024 Expanda Ring	

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<b>1-1/2" &amp; 2" Custom Meter Setters</b>		
<b>Specification Section:</b> 2550		
<b>Standard Details:</b> 111.1		
<b>Standard:</b> Include ball valve & check valve on bypass line		
<b>Approved Manufacturer/Product</b>	<b>Number</b>	<b>Size</b>
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> VBHH76-15BHC-44-66-Q <input type="checkbox"/> VBHH77-15BHC-44-77-Q	<input type="checkbox"/> 1 1/2" <input type="checkbox"/> 2"
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> B-2423-2, 15" riser <input type="checkbox"/> B-2423-2, 15" riser	<input type="checkbox"/> 1 1/2" <input type="checkbox"/> 2"
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 20B615WDQQ666 <input type="checkbox"/> 20B715WDQQ776	<input type="checkbox"/> 1-1/2" <input type="checkbox"/> 2"

<b>Large Meter Vaults</b>	
<b>Specification Section:</b> 2550, 3360	
<b>Standard Details:</b> 112.1, 112.2	
<b>Standard:</b> ASTM C-478; ASTM C-150, type II cement	
<b>Approved Manufacturer/Product</b>	<b>Size</b>
<input type="checkbox"/> C.R. Semler, Inc.	
<input type="checkbox"/> Advanced Drainage Structure	
<input type="checkbox"/> Oldcastle Precast	
<input type="checkbox"/> Smith-Midland, Corp.	
<input type="checkbox"/> A. C. Miller Concrete Products	
<input type="checkbox"/> Americast	
<input type="checkbox"/> Contractors Precast Corp. 3" & 4" Vaults	

<b>Large Meter Vault Ladders</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 112.2	
<b>Standard:</b> Vertical Aluminum ladder with support extension	
<b>Approved Manufacturer/Product</b>	<b>Model</b>
<input type="checkbox"/> Halliday Aluminum Ladder	<input type="checkbox"/> Series L1B with Series L1E Safety Extension
<input type="checkbox"/> East Jourdan Iron Works	<input type="checkbox"/> LADAL 06DOOST, Ext. SYOPT1300

<b>2" Air Release/Vacuum Valve</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 115.1	
<b>Standard:</b> 16 inch T-handle required	
<b>Approved Manufacturer/Product</b>	<b>Number</b>
<input type="checkbox"/> CLA-VAL Automatic Control Valves	<input type="checkbox"/> 362-CAV332
<input type="checkbox"/> Crispin-Multiplex Manufacturing Co.	<input type="checkbox"/> UL20
<input type="checkbox"/> Valmatic Valves	<input type="checkbox"/> VM-22

**PRE-APPROVED MATERIALS LIST**

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<b>2" Corporation / 2" Bronze Angle Valve</b>	
<b>Specification Section:</b> 2550	
<b>Standard Details:</b> 115.1	
<b>Standard:</b> Use 2" tapped tee, AWWA threads, 2" ball corporation and 2" globe valve	
Approved Manufacturer/Product	Number
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> FB1600-7
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 3148B
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> B-20045
<input type="checkbox"/> Nibco, Inc.	<input type="checkbox"/> T-311-Y, Angle Valve

<b>Service Saddle</b>		
<b>Specification Section:</b> 2570		
<b>Standard Details:</b>		
<b>Standard:</b> All Bronze Service Saddles		
Approved Manufacturer/Product	Series	
<input type="checkbox"/> The Ford Meter Box Co.	<input type="checkbox"/> 101B	<input type="checkbox"/> 202B
<input type="checkbox"/> Romac Industries, Inc.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> AY McDonald Mfg. Company	<input type="checkbox"/> 3815 (single strap)	<input type="checkbox"/> 3825 (double strap)
<input type="checkbox"/> Mueller Company	<input type="checkbox"/> BR1B	<input type="checkbox"/> BR2B

<b>Jack-N-Bore</b>		
<b>Specification Section:</b>		
<b>Standard Details:</b> 123.1, 211.1		
<b>Standard:</b> Casing – AWWA C-200; DIP pipe – AWWA C-104		
Approved Vendors	Casing Spacers	End Seals
<input type="checkbox"/> Advance Products and Systems	<input type="checkbox"/> Model SSI	<input type="checkbox"/> Models AW &/or AC
<input type="checkbox"/> Cascade Waterworks Manufacturing	<input type="checkbox"/> Model CCS	
<input type="checkbox"/> Corrosion Control Products	<input type="checkbox"/>	<input type="checkbox"/> Models S, C or W

<b>Additional Water Items</b>	
List Manufacturer	List appropriate specifications and detail

**PRE-APPROVED MATERIALS LIST**

Frederick County Contract Number: \_\_\_\_\_

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**Grinder Pumps**

<b>PVC Pressure Pipe</b>			
<b>Specification Section:</b> 2570			
<b>Standard Details:</b> 213.2, 214.1, 217.1,301.1, 302.1, 303.1, 304.1, 305.1, 306.1, 307.1			
<b>Standard:</b> Gasketed, SDR21, PVC 1120, ASTM D2241			
<b>Approved Manufacturer/Product</b>	<b>Type</b>	<b>Standard</b>	<b>Size</b>
<input type="checkbox"/> CertainTeed Corporation			
<input type="checkbox"/> National Pipe			

<b>PVC Pressure Fitting</b>			
<b>Specification Section:</b> 2570			
<b>Standard Details:</b> 213.2, 214.1, 217.1, 302.1, 303.1, 304.1, 305.1, 306.1, 307.1,			
<b>Standard:</b> Gasketed, SDR21, ASTM D2241			
<b>Approved Manufacturer/Product</b>	<b>Part#</b>	<b>Catalog #</b>	<b>Size</b>
<input type="checkbox"/> Flo Control, Inc.			
<input type="checkbox"/> The Harrington Corp.			

<b>PVC Pipe</b>			
<b>Specification Section:</b> 2570			
<b>Standard Details:</b>			
<b>Standard:</b> Threaded, Schedule 80, ASTM D2464			
<b>Approved Manufacturer/Product</b>	<b>Type</b>	<b>Standard</b>	<b>Size</b>
<input type="checkbox"/> North American Pipe Corporation			
<input type="checkbox"/> Diamond Plastics			

<b>PVC Purple Primer</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b>	
<b>Approved Manufacturer/Product</b>	<b>Series</b>
<input type="checkbox"/> United Elchem Industries, Inc.	<input type="checkbox"/> Uni-Weld 8700

<b>PVC Cement</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b> Solvent Type	
<b>Approved Manufacturer/Product</b>	<b>Series</b>
<input type="checkbox"/> United Elchem Industries, Inc.	<input type="checkbox"/> Uni-Weld 1500

**PRE-APPROVED MATERIALS LIST**

Frederick County Contract Number: \_\_\_\_\_

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<b>Grinder Pump</b>	
<b>Specification Section:</b>	
<b>Standard Details:</b>	
<b>Standard:</b> Control panel must be within sight of the grinder unit.	
Approved Manufacturer/Product	Model
<input type="checkbox"/> Environmental One Corp.	<input type="checkbox"/> Model #DH071 <input type="checkbox"/>

<b>Brass Fittings</b>	
<b>Specification:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b> Threaded	
Approved Manufacturer/Product	Supplemental Information
<input type="checkbox"/> Lee Brass Company	
<input type="checkbox"/> Merit Brass Company	

<b>Swing Check Valve</b>	
<b>Specification:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b> PVC	
Approved Manufacturer/Product	Type/Series
<input type="checkbox"/> Flo Control, Inc.	<input type="checkbox"/> Compression Type, Series 1500 <input type="checkbox"/> Solvent Weld Type, Series 1520

<b>Curb Box</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b> Screw Type	
Approved Manufacturer/Product	Supplemental Information
<input type="checkbox"/> Tyler Pipe (#142R)	

<b>Detector Tape</b>	
<b>Specification Section:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b> 3 inch wide, Safety Green	
Approved Manufacturer/Product	Supplemental Information
<input type="checkbox"/> Tyler Pipe (#142R)	

**PRE-APPROVED MATERIALS LIST**

Frederick County Contract Number: \_\_\_\_\_

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<b>Direct Bury Cable</b>	
<b>Specification:</b>	<b>Detail:</b>
<b>Specification:</b> 2570	
<b>Standard Details:</b>	
<b>Standard:</b> Type UF, Cable with ground wire, 14/2	
<b>Approved Manufacturer/Product</b>	<b>Supplemental Information</b>

Materials not on the Pre Approved list shall be submitted in accordance with the General Conditions and Standard Specifications for Water Mains Sanitary Sewers and Related Structures, Sect 1200 I. General A. Description: B. Technical Submittals 1. Shop Drawings a.

Original Submittal: One each reproducible or six (6) legible prints each of all shop drawings shall be submitted to the Engineer for approval in accordance with the shop drawing submission schedule, etc.