



Water & Sewer Utilities Construction Plans- Bond Estimate Calculation Sheet

Project Name: _____

Engineer's Initials: _____

Phase/Section: _____

Water Sewer

Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
Water Construction					
8" Water Main/Appurtenances					
1	8" Ductile Iron Pipe (DIP)		LF	\$ 72.00	
2	8" Gate Valve		Each	\$ 800.00	
3	8" Tee		Each	\$ 650.00	
4	8" Cross		Each	\$ 650.00	
5	8" Reducer/Bend		Each	\$ 500.00	
12" Water Main/Appurtenances					
6	12" Ductile Iron Pipe (DIP)		LF	\$ 96.00	
7	12" Gate Valve		Each	\$ 2,000.00	
8	12" Tee		Each	\$ 1,000.00	
9	12" Cross		Each	\$ 1,000.00	
10	12" Reducer/Bend		Each	\$ 750.00	
16" Water Main/Appurtenances					
11	16" Ductile Iron Pipe (DIP)		LF	\$ 120.00	
12	16" Butterfly Valve		Each	\$ 4,000.00	
13	16" Tee		Each	\$ 1,750.00	
14	16" Cross		Each	\$ 1,750.00	
15	16" Reducer/Bend		Each	\$ 1,000.00	
Connections to Existing Water Lines					
16	8" Wet Tap of Existing Water Line		Each	\$ 3,500.00	
17	12" Wet Tap of Existing Water Line		Each	\$ 4,500.00	
18	16" Wet Tap of Existing Water Line		Each	\$ 5,500.00	
19	Connection to Existing Blow Off		Each	\$ 1,500.00	
Jack and Bore with Casing Pipe					
20	Jack and Bore with 24" Casing Pipe		LF	\$ 800.00	
21	Jack and Bore with 30" Casing Pipe		LF	\$ 1,000.00	
22	Jack and Bore with 36" Casing Pipe		LF	\$ 1,400.00	



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Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
Miscellaneous Water Appurtenances					
23	Fire Hydrant Assembly		Each	\$ 8,000.00	
24	Gravel Bedding		LF	\$ 5.00	
25	Select Backfill		LF	\$ 5.00	
26	Erosion & Sedimentation (E&S) Control		LF	\$ 4.50	
27	Pressure Testing & Sampling		LF	\$ 1.50	
28	Air Release Assembly		Each	\$ 5,000.00	
29	Blasting & Rock Excavation		VF/LF	\$ 12.00	
30	Service Connection incl. Meter Box - 3/4"		Each	\$ 750.00	
31	Service Connection incl. Meter Box - 1"		Each	\$ 1,000.00	
32	Service Connection incl. Meter Box - 1-1/2"		Each	\$ 2,000.00	
33	Service Connection incl. Meter Box - 2"		Each	\$ 2,500.00	
34	2" Temporary Blow Off Assembly		Each	\$ 2,000.00	
35	4" Blow Off or Flushing Hydrant Assembly		Each	\$ 2,500.00	
36	Easement Restoration		LF	\$ 5.00	
37	Open Cut Crossing of Existing Road incl. Asphalt		LF	\$ 75.00	
38	Relocate Existing Hydrant		Each	\$ 2,500.00	
Non-Standard Water Main/Appurtenances (with Prior Approval Only)					
39	Size				
40	Ductile Iron Pipe (DIP)		LF		
41	Gate Valve		Each		
42	Tee		Each		
43	Cross		Each		
44	Reducer/Bend		Each		
Other					
45					
46					
47					
Water Total					\$ -



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Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
Sanitary Sewer Construction					
Gravity Sanitary Sewer Pipe					
48	8" SDR-35 PVC Gravity Sewer		LF	\$ 40.00	
49	10" SDR-35 PVC Gravity Sewer		LF	\$ 50.00	
50	12" SDR-35 PVC Gravity Sewer		LF	\$ 60.00	
51	15" SDR-35 PVC Gravity Sewer		LF	\$ 70.00	
52	18" SDR-35 PVC Gravity Sewer		LF	\$ 80.00	
53	8" DIP Gravity Sewer, Less than 10 feet Deep		LF	\$ 50.00	
54	8" DIP Gravity Sewer, 10+ Feet Deep		LF	\$ 75.00	
55	10" DIP Gravity Sewer, Less than 10 feet Deep		LF	\$ 60.00	
56	10" DIP Gravity Sewer, 10+ Feet Deep		LF	\$ 85.00	
57	12" DIP Gravity Sewer, Less than 10 feet Deep		LF	\$ 70.00	
58	12" DIP Gravity Sewer, 10+ Feet Deep		LF	\$ 95.00	
59	16" DIP Gravity Sewer, Less than 10 feet Deep		LF	\$ 80.00	
60	16" DIP Gravity Sewer, 10+ Feet Deep		LF	\$ 105.00	
61	18" DIP Gravity Sewer, Less than 10 feet Deep		LF	\$ 90.00	
62	18" DIP Gravity Sewer, 10+ Feet Deep		LF	\$ 115.00	
Manholes					
63	4' Inside Diameter, up to 6' Depth		Each	\$ 3,000.00	
64	4' Inside Diameter, Depth Above 6'		VF	\$ 350.00	
65	5' Inside Diameter, up to 6' Depth		Each	\$ 3,500.00	
66	5' Inside Diameter, Height Above 6'		VF	\$ 500.00	
67	Core Connection to Existing Manhole		Each	\$ 1,500.00	
Manhole Drop Connections					
68	8" Drop Connection		Each	\$ 1,251.00	
69	10" Drop Connection		Each	\$ 1,312.00	
70	12" Drop Connection		Each	\$ 1,362.00	
71	15" or 16" Drop Connection		Each	\$ 1,445.00	



Fluvanna County Virginia

P.O. Box 540

Palmyra, VA 22963

(434) 591-1910

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Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
72	18" Drop Connection		Each	\$ 1,530.00	



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Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
Jack and Bore with Casing Pipe					
73	Jack and Bore with 24" Casing Pipe		LF	\$ 800.00	
74	Jack and Bore with 30" Casing Pipe		LF	\$ 1,000.00	
75	Jack and Bore with 36" Casing Pipe		LF	\$ 1,400.00	
Miscellaneous Sanitary Sewer Appurtenances					
76	4" Sanitary Lateral Connection		Each	\$ 1,000.00	
77	6" Sanitary Lateral Connection		Each	\$ 1,200.00	
78	Gravel Bedding		LF	\$ 6.00	
79	Select Backfill		LF	\$ 6.00	
80	Erosion & Sedimentation (E&S) Control		LF	\$ 4.50	
81	Pipe Testing		LF	\$ 1.50	
82	Manhole Testing		Each	\$ 100.00	
83	Easement Restoration		LF	\$ 4.00	
84	Concrete Pipe Encasement		LF	\$ 100.00	
85	Blasting & Rock Excavation		VF/LF	\$ 12.00	
86	Tunneling		LF	\$ 695.00	
Other					

Sanitary Sewer Total	\$	-
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Bond Estimate Calculation Summary

Water Total =	\$	-
Sanitary Sewer Total =	\$	-
Sub-Total (Water + Sewer) =	\$	-
15% Contingency, Overhead, Legal and Administration =	\$	-



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Water Sewer

Item No.	Item Description	Quantity	Unit	Unit Price	Total Price
Total Bond Amount = \$					-