

**TOWN OF MIDDLEBURY**  
**COURT SQUARE / VILLAGE GREEN WATER SYSTEM IMPROVEMENTS**  
**PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST**



Item No.	Description	Unit Quantity	Unit Cost	Total Cost
<b>1.0</b>	<b>Water Mains</b>			
1.1	12-Inch Class 52 Ductile Iron Water Main w/ Polyethylene Encasement	1150 LF	\$ 110	\$ 126,500
1.2	10-Inch Class 52 Ductile Iron Water Main w/ Polyethylene Encasement	50 LF	\$ 105	\$ 5,250
1.3	8-Inch Class 52 Ductile Iron Water Main w/ Polyethylene Encasement	20 LF	\$ 100	\$ 2,000
1.4	6-Inch Class 52 Ductile Iron Water Main w/ Polyethylene Encasement	20 LF	\$ 95	\$ 1,900
1.5	12-Inch Jack and Bore Class 52 Ductile Iron Water Main w/ Casing	180 LF	\$ 400	\$ 72,000
1.6	Jack and Bore/Mobilization/DeMobilization	2 EA	\$ 5,000	\$ 10,000
<b>2.0</b>	<b>Water Gate Valves</b>			
2.1	12-Inch Gate Valve	8 EA	\$ 2,500	\$ 20,000
2.2	10-Inch Gate Valve	1 EA	\$ 2,250	\$ 2,250
2.3	8-Inch Gate Valve	1 EA	\$ 1,750	\$ 1,750
2.4	6-Inch Gate Valve	2 EA	\$ 1,500	\$ 3,000
<b>3.0</b>	<b>Tapping Sleeve &amp; Valve Assembly</b>			
3.1	12-Inch x 12-Inch Tapping Sleeve and Valve	1 EA	\$ 6,500	\$ 6,500
<b>4.0</b>	<b>Interconnection with Existing Water Main</b>			
4.1	Interconnection with Existing Water Main (12-Inch)	3 EA	\$ 3,500	\$ 10,500
4.2	Interconnection with Existing Water Main (10-Inch)	1 EA	\$ 3,000	\$ 3,000
4.3	Interconnection with Existing Water Main (8-Inch)	2 EA	\$ 2,500	\$ 5,000
4.4	Interconnection with Existing Water Main (6-Inch)	3 EA	\$ 2,250	\$ 6,750
<b>5.0</b>	<b>Fire Hydrant Assemblies</b>			
5.1	Install Fire Hydrant Assemblies	3 EA	\$ 5,000	\$ 15,000
5.2	Remove (Abandon) Fire Hydrant Assemblies	2 EA	\$ 750	\$ 1,500
<b>6.0</b>	<b>Corporation &amp; Curb Stops</b>			
6.1	2-Inch Corporation & Curb Stop	1 EA	\$ 1,250	\$ 1,250
<b>7.0</b>	<b>Water Service Piping</b>			
7.1	2-Inch Type "K" Copper Water Service	20 LF	\$ 60	\$ 1,200
<b>8.0</b>	<b>Ductile Iron Fittings</b>			
8.1	Ductile Iron Mechanical Joint Fittings	500 LBS	\$ 5	\$ 2,500
8.2	Pipe Joint Restraint	25 EA	\$ 150	\$ 3,750
8.3	Cast-In-Place Concrete Thrust Blocks	12 CY	\$ 200	\$ 2,400
<b>9.0</b>	<b>Rock Removal</b>			
9.1	Trench Ledge Removal	500 CY	\$ 160	\$ 80,000
<b>10.0</b>	<b>Rigid Pipe Insulation</b>			
10.1	Rigid Pipe Insulation	500 SF	\$ 4	\$ 1,750
<b>11.0</b>	<b>Bituminous Concrete Pavement</b>			
11.1	Bituminous Concrete Pavement (Trench Patch)	500 SY	\$ 75	\$ 37,500
11.2	Bituminous Concrete Pavement (Trench Patch - Conc Base)	50 SY	\$ 150	\$ 7,500
<b>12.0</b>	<b>Curb</b>			
12.1	Concrete Curb	50 LF	\$ 25	\$ 1,250
12.2	Granite Curb	10 LF	\$ 50	\$ 500
<b>13.0</b>	<b>Sidewalk</b>			
13.1	Concrete Sidewalk	2750 SF	\$ 11	\$ 30,250
<b>14.0</b>	<b>Valve Vaults</b>			
14.1	Precast Valve Vault	7 EA	\$ 10,000	\$ 70,000
14.2	Doghouse Style Vault	1 EA	\$ 7,000	\$ 7,000
<b>15.0</b>	<b>Traffic Control</b>			
15.1	Traffic Control Signage and Barriers including pedestrian detours	1 LS	\$ 5,000	\$ 5,000
15.2	Certified Flaggers	250 HR	\$ 40	\$ 10,000
15.3	Uniformed Traffic Control Officers	50 HR	\$ 75	\$ 3,750
<b>16.0</b>	<b>Contract General Conditions</b>			
16.1	General Conditions & Miscellaneous Work (12% - Assumed)	1 LS	\$ 67,020	\$ 67,020
Subtotal =				\$ 625,520
Contingency (10%) =				\$ 62,552
<b>TOTAL OPINION OF PROBABLE CONSTRUCTION COST =</b>				\$ 688,072
Design/Bid/Construction Phase Professional Services (18%)				\$ 123,853
<b>TOTAL PROJECT COSTS</b>				\$ 811,925