

**"Bury the Wires and Tame the Traffic"  
Waterford, Virginia**

**PRELIMINARY ENGINEERING STUDY AND CONCEPT PLANS**

***PRELIMINARY ESTIMATES OF PROJECT COSTS***

<b>Project Item</b>	<b>Preliminary Cost</b>
Traffic calming measures (2.4 miles of roadway, 12 intersections)	\$ 2,800,000
Drainage improvements associated with traffic calming	\$ 600,000
Roadway and pedestrian lighting consistent with village character	\$ 700,000
Electric service relocation from overhead lines to underground ducts	\$ 5,700,000
Telephone service relocation from overhead lines to underground ducts	\$ 2,900,000
Utility service connections to existing structures	<u>\$ 800,000</u>
	<b>Total in 2003 Dollars: \$ 13,500,000</b>
	2005 Dollars: \$ 14,200,000
	2008 Dollars: \$ 15,400,000

**Notes:**

1. Costs are preliminary in nature and based on concept designs developed by consultant team in close coordination with representatives from the Village of Waterford.
2. Escalation factors used to project 2005 and 2008 cost estimates: 2.4% in 2004 and 2005, 2.5% in 2006, 2.7% in 2007, 2.8% in 2008, per U.S. President's Office of Management and Budget.
3. Costs include construction, engineering design and construction administration, mobilization, maintenance of traffic, easements, permits, and contingencies.
4. Costs assume that all items will be constructed as part of a total, phased project.

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**TRAFFIC CALMING AND ROADWAY IMPROVEMENTS**

**SUMMARY**

<b>PROJECT LOCATION</b>	<b>PRELIMINARY COST</b>
Clarkes Gap Road/High Street/Factory Street Intersection	\$ 88,000.00
Factory Street - Second Street to High Street	\$ 15,000.00
High Street - Factory Street to Upper Main Street	\$ 89,000.00
Janney Street - Second Street to High Street	\$ 73,000.00
Patrick Street - Second Street to High Street	\$ 410,000.00
High Street/Butchers Row/Upper Main Intersection	\$ 58,000.00
Second Street - Factory Street to Church Street	\$ 175,000.00
Corner Store Intersection	\$ 408,000.00
Main Street Hill	\$ 69,000.00
Lower Main Street - Second Street to First Street	\$ 569,000.00
Main Street/First Street/Liggett Intersection	\$ 48,000.00
First Street - Catoctin Creek to Old Waterford Mill	\$ 99,000.00
Water Street - Main Street to Loyalty road	\$ 233,000.00
Butchers Row/Water Street/Loyalty Road Intersection	\$ 66,000.00
Loyalty Road - Butchers Row to North of Brown's Lane	\$ 125,000.00
<b>TOTAL</b>	<b>\$ 2,525,000.00</b>
<b>Alternate 1 - Mill/Overlay Additional Roadways</b>	\$ 324,000.00
Total from Part 1	\$ 2,525,000.00
<b>TOTAL WITH ALTERNATE</b>	<b>\$ 2,849,000.00</b>
<b>TOTAL ROUNDED</b>	<b>\$ 2,800,000.00</b>