

General Information		Map	
Project ID			
Street Name	115 Brockton Ct		
Site Visit Date	1/20/2016		
Road Classification	Minor road		
Project Notes			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2-10.5'		
Existing Shld Width (paved and grass) (feet)	15'		
Existing Side Slopes	1.5:1		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	4'		
Pipe Type and Size	60" CMP		
Pipe Condition (1-5) (1 is new)	3-4		
Condition Notes: Rusted out bottom. Concrete headwall. Undercutting at upstream end. Existing blowout at storm drain inlet 1' x 1'			
Pavement Type/Condition	Asphalt/Good		
Environmental Features			
Wetlands			
Ditches			
State Waters			
Utilities (Visual Inspection)			
Electric	Aerial		
Cable	Buried		
Phone	Aerial		
Gas	Unknown		
Water	Unknown		
Sewer			
Other	Curb and gutter		
Proposed Design			
Roadway Section	Typical		
Culvert Size & Material	60" round RCP with straight headwall		
Utility Relocations	Removal/replacement drain inlets, buried cable		
Guardrail Replacement			
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	10% of Construction Cost and any surveying needed	\$11,876	
Right of Way Cost	Assuming downstream end extends past ROW 1/20 acre	\$8,712	
Utility Relocation Cost		\$6,388	
Construction Cost		\$68,763	
Environmental Permits	Assuming minimal environmental permitting required	\$10,000	
Total Planning Estimate		\$105,739	





Photo 1: Upstream end of culvert.



Photo 2: Downstream end of culvert looking northeast towards Brockton Court.

Brockton Court

Photo Date:

1/20/2016

Taken By:

David Gibbs

Page

1

Roadway Construction, Utility Relocation and ROW Quantity Calculations

Roadway Construction	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Pavement (SF)	\$ 0.73	\$ 4.87	154.00	\$ 863.22
Curb and Gutter (LF)	\$ 28.56	\$ 30.60	40.00	\$ 2,366.40
Drain Inlet (EA)		\$ 3,000.00	2.00	\$ 6,000.00
4" Sidewalk (SY)	\$ 13.56	\$ 36.90	0.00	\$ -
Guardrail (LF)	\$ 4.88	\$ 49.09	0.00	\$ -
End Anchorage (EA)		\$ 1,380.00	0.00	\$ -
Subtotal				\$ 9,229.62
Grading Complete (5% of Rwy Items & Drng Total \$)				\$ 2,601.85
Roadway Total				\$ 11,831.47
Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	154.00	\$ 1,598.52
60" CMP (LF)	\$ 24.60		66.00	\$ 1,623.60
60" RCP (LF)		\$ 281.96	66.00	\$ 18,609.62
Class A Conc (CY)		\$ 892.19	21.58	\$ 19,253.42
Steel (lb)		\$ 1.42	0.00	\$ -
Pipe Bedding (CY)		\$ 48.60	17.11	\$ 831.60
Trench Backfill (CY)		\$ 2.99	110.28	\$ 329.52
Trench Compaction (CY)		\$ 6.36	88.22	\$ 561.11
Drainage Total				\$ 42,807.39
Signing and Marking		Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)		\$ 0.71		\$ -
Signing and Marking Total				\$ -
Staging		Installation Unit Cost	Amount	Total Cost
Clearing and Grubbing (Acre)		\$ 10,260.00	0.09	\$ 918.60
Temporary Pavement				\$ -
Temporary Drainage (Stream Diversion)		\$ 4,428.00	1.00	\$ 4,428.00
Staging Total				\$ 5,346.60
Erosion Control		Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)		\$ 4.39	34.22	\$ 150.30
Temporary Grassing (AC)		\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)		\$ 4.24	264.00	\$ 1,118.30
Check Dam Type C Silt Fence (LF)		\$ 6.79	264.00	\$ 1,793.09
Erosion Control Mats (SY)		\$ 1.87	0.00	\$ -
Landscape Mulch (SY)		\$ 3.58	0.00	\$ -
Perm Grassing (AC)		\$ 1,402.20	0.00	\$ -
Rip Rap Type 3 12" (SY)		\$ 60.98	9.33	\$ 569.18
Plastic Filter Fabric (SY)		\$ 5.72	9.33	\$ 53.42
4" Ditch Paving (SY)		\$ 54.65	0.00	\$ -
Erosion Control Total				\$ 3,684.30
Construction Cost Total				\$ 63,669.76
Traffic Control (8% of Construction Total \$)				\$ 5,093.58
Construction Cost Grand Total				\$ 68,763.34
Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$ 11.00	\$ 55.00	0.00	\$ -
Buried	\$ 16.50	\$ 82.50	0.00	\$ -
Wooden Pole	\$ 82.50	\$ 605.00	0.00	\$ -
Phone				
Aerial	\$ 11.00	\$ 27.50	0.00	\$ -
Buried	\$ 16.50	\$ 55.00	0.00	\$ -
Wooden Pole	\$ 82.50	\$ 605.00	0.00	\$ -
Cable				
Aerial	\$ 11.00	\$ 27.50	0.00	\$ -
Buried	\$ 16.50	\$ 55.00	50.00	\$ 3,575.00
Wooden Pole	\$ 82.50	\$ 605.00	0.00	\$ -
Gas				
4" main	\$ 16.50	\$ 66.00	0.00	\$ -
Water				
8" main	\$ 16.50	\$ 93.50	0.00	\$ -
Drain inlet		\$ 1,406.40	2.00	\$ 2,812.80
Sewer				
12" main	\$ 16.50	\$ 82.50	0.00	\$ -
Utility Relocation Total				\$ 6,387.80
Right of Way (Sq Ft)		Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement		\$ 4.00	2178.00	\$ 8,712.00
ROW Total				\$ 8,712.00