

General Information		Map	
Project ID			
Street Name	Patricia Lane		
Site Visit Date	5/22/13		
Road Classification	Minor road		
Project Notes			
Urban typical section with curb and gutter			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2 - 10'		
Existing Shld Width (paved and grass) (feet)	4'		
Existing Side Slopes	Flat		
Existing Guardrail	None		
Depth fm Pavement to Top of Culvert (ft):	2.5		
Pipe Type and Size	54" CMP		
Pipe Condition (1-5) (1 is new)	4		
Condition Notes: Joint failure, signs of rust, downstream plunge pool needed, eroded drop, holes from scour on top, rip rap/debris inside of pipe			
Pavement Type/Condition	Asphalt/Good		
Environmental Features			
Wetlands	None		
Ditches	None		
Utilities (Visual Inspection)			
Electric	Aerial		
Cable	Aerial		
Phone	Buried		
Gas			
Water			
Sewer			
Other			
Proposed Design			
Roadway Section			
Culvert Size & Material	8' x 4' box, concrete, 150' length		
Utility Relocations	Pole next to pipe, phone, cable, electric		
Guardrail Replacement			
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	Includes 10% Construction Cost and surveying needs	\$26,254	
Right of Way Cost	Assuming project extends 10,000 sf beyond ROW	\$40,000	
Utility Relocation Cost	Buried utilities, pole	\$6,738	
Construction Cost	Assuming 1/10 acre clearing and grubbing	\$212,536	
Environmental Permits	Assuming minimal environmental permitting required	\$10,000	
Total Planning Estimate		\$295,527	



Photo 1:



Photo 2:

151 Patricia Lane

Photo Date:

5/21/2013

Taken By:

David King

Page:

1



Photo 3:



Photo 4:

151 Patricia Lane

Photo Date:

5/21/2013

Taken By:

David King

Page:

2

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	200.00	\$ 1,121.07
Curb and Gutter (LF)	\$ 28.56	\$ 30.60	0.00	\$ -
Drain Inlet (EA)		\$ 3,000.00	0.00	\$ -
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				\$ 1,121.07
Grading Complete (5% of Rwy Items & Drng Total \$)				\$ 8,629.47
Roadway Total				\$ 9,750.54
Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	444.44	\$ 4,613.33
54" CMP (LF)	\$ 24.60		150.00	\$ 11,070.00
54" RCP		\$ 233.28	0.00	\$ -
Class A Conc (CY)		\$ 892.19	141.03	\$ 125,825.27
Steel (lb)		\$ 1.42	16,505.00	\$ 23,371.08
Pipe Bedding (CY)		\$ 48.60	56.30	\$ 2,736.18
Trench Backfill (CY)		\$ 2.99	477.03	\$ 1,425.38
Trench Compaction (CY)		\$ 6.36	381.63	\$ 2,427.15
Drainage Total				\$ 171,468.39
Signing and Marking		Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)		\$ 0.71	0.00	\$ -
Signing and Marking Total				\$ -
Staging		Installation Unit Cost	Amount	Total Cost
Clearing and Grubbing (Acre)		\$ 10,260.00	0.10	\$ 1,026.00
Temporary Pavement				\$ -
Temporary Drainage (Stream Diversion)		\$ 4,428.00	1.00	\$ 4,428.00
Staging Total				\$ 5,454.00
Erosion Control		Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)		\$ 4.39	144.44	\$ 634.40
Temporary Grassing (AC)		\$ 855.60	0.00	\$ -
Type C Silt Fence (LF)		\$ 4.24	600.00	\$ 2,541.60
Check Dam Type C Silt Fence (LF)		\$ 6.79	600.00	\$ 4,075.20
Erosion Control Mats (SY)		\$ 1.87	200.00	\$ 374.40
Landscape Mulch (SY)		\$ 3.58	200.00	\$ 715.20
Perm Grassing (AC)		\$ 1,402.20	0.00	\$ -
Rip Rap Type 3 12" (SY)		\$ 60.98	26.67	\$ 1,626.24
Plastic Filter Fabric (SY)		\$ 5.72	26.67	\$ 152.64
4" Ditch Paving (SY)		\$ 54.65	0.00	\$ -
Erosion Control Total				\$ 10,119.68
Construction Cost Total				\$ 196,792.61
Traffic Control (8% of Construction Total \$)				\$ 15,743.41
Construction Cost Grand Total				\$ 212,536.02
Utility Relocation	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Electric				
Aerial	\$ 11.00	\$ 55.00		\$ -
Buried	\$ 16.50	\$ 82.50	25.00	\$ 2,475.00
Wooden Pole	\$ 82.50	\$ 605.00	1.00	\$ 687.50
Phone				
Aerial	\$ 11.00	\$ 27.50		\$ -
Buried	\$ 16.50	\$ 55.00	25.00	\$ 1,787.50
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Cable				
Aerial	\$ 11.00	\$ 27.50		\$ -
Buried	\$ 16.50	\$ 55.00	25.00	\$ 1,787.50
Wooden Pole	\$ 82.50	\$ 605.00		\$ -
Gas				
4" main	\$ 16.50	\$ 66.00		\$ -
Water				
8" main	\$ 16.50	\$ 93.50	0.00	\$ -
Relocate Fire Hydrant (EA)		\$ 2,609.22		\$ -
Sewer			0.00	\$ -
12" main	\$ 16.50	\$ 82.50	0.00	\$ -
Utility Relocation Total				\$ 6,737.50
Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost	
Permanent Easement	\$ 4.00	10,000.00	\$ 40,000.00	
ROW Total			\$ 40,000.00	