

General Information		Map	
Project ID			
Street Name	Rising Star Rd		
Site Visit Date			
Road Classification	Rural		
Project Notes			
Culvert replacement alternatives to provide flow capacity for the 100 year storm peak runoff.			
Field Notes			
Design (Existing Site Features)			
Existing Road Laneage	2-12'		
Existing Shld Width (paved and grass) (feet)			
Existing Side Slopes			
Existing Guardrail	No		
Depth fm Pavement to Top of Culvert (ft):	(+/-) 3.5'		
Pipe Type and Size	2- 72" CMP		
Pipe Condition (1-5) (1 is new)	3-4		
Condition Notes: Two 72" culverts – left one collapsed, right one has approx. 6" dip in last joint.			
Pavement Type/Condition	Asphalt/Good		
Environmental Features		Stage Construction Options	
Wetlands	TBD	Close Location to Traffic	X
Ditches	YES	Maintain One Lane - No Temp Pavement	
State Waters	YES (ASSUMED)	Maintain One Lane - Temp Pavement	
Utilities (Visual Inspection)		Stage Construction Notes:	
Electric	Aerial	Assumed road closure	
Cable	Unknown		
Phone	Unknown		
Gas	Unknown		
Water	Underground		
Sewer	Underground		
Other			
Proposed Design			
Roadway Section	Typical		
Culvert Size & Material	2 - 84" round RCP with end treatment		
Utility Relocations	To be verify, (20" DIP or PVC mains)		
Guardrail Replacement			
Miscellaneous Features			
Planning Cost Estimate			
Type	Notes	Total	
Design	Actual Cost including Environmental Permitting and Engineer of Record Administrative Fee	\$54,005	
Right of Way Cost	Assuming UPS/DWS ends extends past ROW 1/20 acre	\$17,424	
Utility Relocation Cost	Assuming no relocation	\$212,535	
Construction Cost	Includes 1/8 acre clearing and grubbing	\$165,180	
Total Planning Estimate		\$449,143	



Photo 1:



Photo 2:

Rising Star Road

Photo Date:

4/14/2016

Taken By:

Tony Hicks

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2-84" Culvert Construction and ROW Quantity Calculations

Roadway Construction	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Pavement (SF)	\$ 0.73	\$ 4.87	1200.00 \$	6,726.40
Curb and Gutter (LF)	\$ -	\$ 18.42	0.00 \$	-
4" Sidewalk (SY)	\$ -	\$ 36.90	0.00	0
Guardrail (LF)	\$ -	\$ 49.09	0.00	0
End Anchorage (EA)		\$ 1,380.00	0.00	0
Subtotal			\$	6,726.40
Grading Complete (5% of Rwy Items & Drng Total \$)			\$	5,352.94
Roadway Total			\$	12,079.34

Drainage	Removal Unit Cost	Installation Unit Cost	Amount	Total Cost
Trench Excavation (CY)		\$ 10.38	523.72 \$	5,436.20
72" CMP (LF)	\$ 54.00		116.00 \$	6,264.00
84" RCP (LF)		\$ 350.00	116.00 \$	40,600.00
Class A Conc (CY)		\$ 892.19	48.37 \$	43,155.13
Steel (lb)		\$ 1.42	0.00 \$	-
Pipe Bedding (CY)		\$ 48.60	49.41 \$	2,401.20
Trench Backfill (CY)		\$ 2.99	306.57 \$	916.02
Trench Compaction (CY)		\$ 6.36	245.25 \$	1,559.81
Drainage Total			\$	100,332.36

Signing and Marking	Installation Unit Cost	Amount	Total Cost
Permanent Striping (LF)	\$ 0.71	50 \$	35.40
Signing and Marking Total		\$	35.40

Staging	Installation Unit Cost	Amount	Total Cost
Clearing and Grubbing (Acre)	\$ 10,260.00	0.13 \$	1,282.50
Temporary Pavement		0.00	0
Temporary Drainage (Stream Pump Around)	\$ 30,000.00	1.00 \$	30,000.00
Staging Total		\$	31,317.90

Erosion Control	Installation Unit Cost	Amount	Total Cost
Fine Grading and Seeding (SY)	\$ 4.39	188.89 \$	829.60
Temporary Grassing (AC)	\$ 855.60	0.00 \$	-
Type C Silt Fence (LF)	\$ 4.24	232.00 \$	982.75
Check Dam Type C Silt Fence (LF)	\$ 6.79	0.00 \$	-
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	66.67 \$	4,065.60
Plastic Filter Fabric (SY)	\$ 5.72	66.67 \$	381.60
4" Ditch Paving (SY)	\$ 54.65	0.00 \$	-

Erosion Control Total \$ 6,259.55

Construction Cost Total \$ 150,024.55

Traffic Control (8% of Construction Total \$) \$ 12,001.96

Construction Cost Grand Total \$ 162,026.52

Public Works 3,153

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	0.00 \$	-
Wooden Pole	\$ 82.50	\$ 605.00	0.00 \$	-
Gas				
4" main	\$ 16.50	\$ 66.00	0.00 \$	-
Water				
Cap and Remove (EA)		\$ 3,780.00	1.00 \$	3,780.00
24" Watermain (LF)		\$ 296.00	150.00 \$	44,400.00
24" Gate Valve (EA)		\$ 15,120.00	2.00 \$	30,240.00
36" Steel Casing (LF)		\$ 185.00	100.00 \$	18,500.00
36" Jack and Bore (LF)		\$ 396.00	100.00 \$	39,600.00
24" 45 degree MJ Bend (EA)		\$ 2,779.00	4.00 \$	11,116.00
10" Watermain (EA)		\$ 53.00	150.00 \$	7,950.00
10" Gate Valve (EA)		\$ 2,430.79	2.00 \$	4,861.58
10" Steel Casing (LF)		\$ 97.83	100.00 \$	9,783.00
10" Jack and Bore (LF)		\$ 396.00	100.00 \$	39,600.00
10" 45 degree MJ Bend (EA)		\$ 676.00	4.00 \$	2,704.00
Utility Relocation Total			\$	212,534.58

Right of Way (Sq Ft)	Cost/ Sq Ft	Sq Ft	Total Cost
Permanent Easement	\$ 4.00	4,356.00 \$	17,424.00
ROW Total		\$	17,424.00