General Information				
Project ID				
Street Name	Brandon Mill Cir - South			
Site Visit Date	5/22/13			
Road Classification	Minor road			

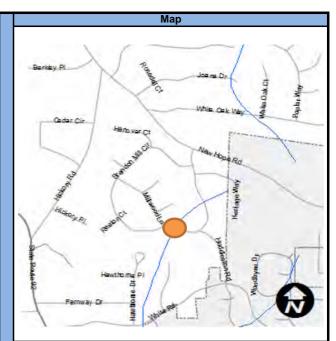
Project Notes

Neighborhood drainage system evaluation and replacement. Urban typical section with valley 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):	4		
Pipe Type and Size	72" CMP		
Pipe Condition (1-5) (1 is new)	5 (Installation)		

Condition Notes: no headwall upstream or down; bends restrict capacity; signs of flooding; pipe condition due to installation

Pavement Type/Condition		Asphalt/Good		
Environmental Features				
Wetlands	None			
Ditches	None			
Utilities (Visual Inspection)				
Electric	Buried			
Cable	Buried			
Phone	Buried			
Gas				
Water	Buried			
Sewer				
Other				



Stage Construction Options	
Close Location to Traffic	X
Maintain One Lane - No Temp Pavement	
Maintain One Lane - Temp Pavement	

Stage Construction Notes: Close roadway;

driveway over pipe; replacement impacts property to the right

\$437,648

Other				
	Proposed Design			
Roadway Section	Typical. Private driveway removal/replacement costed as 9' x 20' section of 4" sidewalk			
Culvert Size & Material	8' x 4' box, concrete, 200' length			
Utility Relocations	Electric, cable, phone, water			
Guardrail Replacement				
Miscellaneous Features	Assumed hydraulic analysis of existing system			
	Planning Cost Estimate			
Туре	Notes	Total		
System Evaluation		\$25,000		
Design	Includes 10% Construction Cost and surveying needs	\$42,841		
Right of Way Cost	Assuming project extends 7,500 sf beyond ROW	\$30,000		
Utility Relocation Cost	Buried utilities	\$26,400		
Construction Cost	Assuming 1/10 acre clearing and grubbing	\$303,407		
Environmental Permits	Assuming minimal environmental permitting required \$10,000			

Total Planning Estimate







Photo 1:



Photo 2:

Photo Date:

6/13/2016

Taken By:

Tony Hicks

Page:

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Roadway Construction, Utility Relocation and ROW Quantity Calculations

	Por	noval		nstallation			
Roadway Construction	Uni	t Cost		Unit Cost	Amount		Total Cost
Pavement (SF) Curb and Gutter (LF)	\$ \$	0.73 28.56	\$	4.87 30.60	200.00 20.00		1,121.0 1,183.2
Orain Inlet (EA)	Ф	20.50	\$	3,000.00	0.00		1,103.2
" Sidewalk (SY)		13.56	\$	36.90	20.00	\$	1,009.2
Guardrail (LF)		4.884	\$	49.09	0.00		-
nd Anchorage (EA)			\$	1,380.00	0.00		-
subtotal						\$	3,313.4
Grading Complete (5% of Rwy Items & Drng To	otal \$)					\$	12,502.2
loadway Total						\$	15,815.6
	Por	noval		Installation			·
Drainage		t Cost		Unit Cost	Amount		Total Cost
rench Excavation (CY)	•	E4.00	\$	10.38	814.81		8,457.7
2" CMP (LF) 2" RCP	\$	54.00	\$	390.00	200.00		32,400.0
lass A Conc (CY)			\$	892.19	183.68		163,877.0
teel (lb)			\$	1.42	21835.00		30,918.3
ipe Bedding (CY)			\$	48.60	74.80		3,635.2
rench Backfill (CY)			\$	2.99	921.50		2,753.4
rench Compaction (CY)			\$	6.36	737.20	\$	4,688.5
rainage Total						\$	246,730.5
Signing and Marking			ı	Installation	Amount		Total Cost
ermanent Striping (LF)			\$	Unit Cost 0.71		\$	
,			Þ	0.71	U		-
Signing and Marking Total						\$	
Staging			ı	Installation Unit Cost	Amount		Total Cost
learing and Grubbing (Acre)			\$	10,260.00	0.10	\$	1,026.0
emporary Pavement emporary Drainage (Stream Diversion)			\$	4,428.00	1.00	\$	4,428.0
			Ψ	4,420.00	1.00		
taging Total						\$	5,454.0
				Installation			
Erosion Control				Unit Cost	Amount		Total Cost
ine Grading and Seeding (SY)			\$	4.39	200.00	\$	878.4
emporary Grassing (AC)			\$	855.60	0.00		-
Type C Silt Fence (LF)			\$	4.24	800.00		3,388.8
Check Dam Type C Silt Fence (LF) Erosion Control Mats (SY)			\$ \$	6.79 1.87	800.00 266.67		5,433.6 499.2
andscape Mulch (SY)			\$	3.58	266.67		953.6
erm Grassing (AC)			\$	1,402.20	0.00		-
tip Rap Type 3 12" (SY)			\$	60.98	26.67	\$	1,626.2
lastic Filter Fabric (SY)			\$	5.72	26.67		152.0
" Ditch Paving (SY)			\$	54.65	0.00	\$	-
rosion Control Total						\$	12,932.
onstruction Cost Total						\$	280,932.
raffic Control (8% of Construction Total						\$	22,474.0
Construction Cost Grand Total						\$	303,407.2
	Rer	noval		Installation			,
Utility Relocation Electric	Uni	t Cost		Unit Cost	Amount		Total Cost
erial	\$	11.00	\$	55.00		\$	-
uried	\$	16.50	\$	82.50	75	\$	7,425.0
/ooden Pole	\$	82.50	\$	605.00		\$	-
Phone erial	\$	11.00	\$	27.50		\$	=
uried	\$	16.50	\$	55.00	75	\$	5,362.5
/ooden Pole	\$	82.50	\$	605.00		\$	-
Cable							
erial	\$	11.00	\$	27.50	_	\$	
uried /ooden Pole	\$ \$	16.50	\$	55.00 605.00	75	\$ \$	5,362.
Gas	\$	82.50	\$	605.00		Ф	-
' main	\$	16.50	\$	66.00		\$	-
Water	•						
' main	\$	16.50	\$	93.50	75		8,250.0
elocate Fire Hydrant (EA) Sewer			\$	2,609.22	0	\$	-
2" main	\$	16.50	\$	82.50	0.00		
tility Relocation Total						\$	26,400.0
ight of Way (Sq Ft)			Со	st/ Sq Ft	Sq Ft	Tota	l Cost
ermanent Easement			\$	4.00	7500		30,000.0
OW Total						\$	30,000.0