

# Final Engineer's Report – Amendment #1 County Ditch 25 Improvement & Establishment of Lateral Stevens County, Minnesota

Date: 1/4/2021

ISG Project No.: 17-20229

*Stephane Buss*  
1/4/2021



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REPORT FOR:  
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## SIGNATURE SHEET

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: Charles J. Brandel

Printed Name: Charles J. Brandel, PE

Date: 01/04/2021

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County Ditch No. 25 Improvement

**Stevens County, Minnesota**

Engineer's Project Number: 17-20229

Dated this 4<sup>th</sup> day of January, 2021

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## EXECUTIVE SUMMARY

On 12/04/2020, ISG submitted the Final Engineer's Report (FER) to Stevens County Ditch No. 25 – Improvement. Within that report is an establishment of lateral (Branch 5 Fork 2 tile). Since submitting the report, ISG has been notified that the establishment of the lateral shall have a separate cost estimate and benefit number than the improvement project. Therefore, this amendment will address the separation in costs for the establishment of lateral project versus the improvement project. All the design criteria and other statements made in the FER are applicable to this amendment.

## PRELIMINARY CONSTRUCTION COST ESTIMATES

### Preliminary Construction Cost Estimates

The following table summarizes the estimated construction cost for the proposed improvement project and establishment of lateral project using separable maintenance and including road authority and other costs. In accordance with the Order to Proceed the engineer has provided a cost estimate for plowing in certain size tile and depth as an option and include a bid option for concrete versus plastic tile. The cost estimate for installing RCP tile replaced 42-inch, 36-inch, 30-inch, and 24-inch tile. This alternative option is listed below as either "Option 1A" or "Option 2A"

Table 1 - Cost Estimate Summary

Proposed Options	Separable Maintenance	Improvement Cost	Net Cost	Benefits	Net Benefits
Proposed Option 1	\$ 1,937,470	\$ 2,842,178	\$ 904,708	\$ 1,930,000	\$ 1,025,292
Proposed Option 1A	\$ 1,937,470	\$ 3,697,880	\$ 1,538,017	\$ 1,930,000	\$ 391,983
Proposed Option 2	\$ 1,937,470	\$ 3,420,186	\$ 1,482,716	\$ 1,930,000	\$ 447,284
Proposed Option 2A	\$ 1,937,470	\$ 4,275,889	\$ 2,116,026	\$ 1,930,000	\$ (186,026)
Establishment Project - Branch 5 Fork 2	\$ -	\$ 33,686	\$ 33,686	\$ 104,000	\$ 70,314

### Project Cost vs Benefit

Shown above in Table 1 is the cost estimate breakdown for each option proposed above. The viewers have determined that CD 25 watershed has approximately \$1,930,000 worth of benefits for the improvement project. The net benefits for Option 1 and Option 1A are approximately \$1,025,292 and \$391,983 respectively, while the net benefits for Option 2 and Option 2A are approximately \$447,284 and -\$186,026 respectively. The viewers have also determined that the establishment of lateral (Branch 5 Fork 2) has approximately \$104,000 worth of benefits, therefore the net benefits for the establishment are \$70,314. Based on the benefits calculated by the viewers, all options proposed are viable options per the drainage statute. Shown below in Table 2 is the total landowner cost, assuming both the improvement project and establishment of lateral are approved. If one project is dismissed, then the direct cost in Table 1 above would be removed from Table 2.

Table 2-Total Landowner Cost

Proposed Options	Total Project Costs for Landowners
Proposed Option 1 & Establishment of Lateral	\$ 2,875,864
Proposed Option 1A & Establishment of Lateral	\$ 3,731,567
Proposed Option 2 & Establishment of Lateral	\$ 3,453,873
Proposed Option 2A & Establishment of Lateral	\$ 4,309,575

## SUMMARY OF FINDINGS, CONCLUSIONS + RECOMMENDATIONS

The proposed project will remain the same as submitted in the Final Engineer's Report entitled "Stevens County Ditch No. 25 – Improvement" on 12/04/2020. The improvement project as well as the establishment of lateral project are both cost effective and have a positive net benefit.

Therefore, in accordance with Section 103E.285, Subd 1: Whereas the engineer has determined the proposed drainage project is necessary and feasible with reference to the environmental, land use, and multipurpose water management criteria in section 103E.015, Subd. 1, and whereas the engineer has determined the projects to be of public utility, benefit or welfare, and whereas the engineer has determined that the proposed drainage project does not have a substantial effect on Public Waters, and whereas the engineer has created construction plans and provided tile specifications, and whereas the engineer has provided construction cost estimates, and whereas the engineer has found the project to be cost effective related to system benefits, and whereas the engineer has responded to the DNR's Preliminary Engineers Report Advisory Review and questions and comments not responded to at the Preliminary Hearing, therefore the engineer recommends the proposed improvement and lateral project to the Drainage Authority for final approval.

# Appendix A: Preliminary Cost Estimate

**STEVENS COUNTY  
COUNTY DITCH No. 25**



**PROPOSED IMPROVEMENT OPTION 1 COST SUMMARY**

<b>Area</b>	<b>Separable Maintenance</b>	<b>Improvement Cost</b>	<b>Net Cost</b>
Main Open Ditch Option 1	\$ 432,494	\$ 470,120	\$ 37,626
Main East Tile	\$ -	\$ 41,866	\$ 41,866
Main West Tile	\$ 135,741	\$ 68,054	\$ (67,687)
Branch 1 Tile	\$ 54,999	\$ 15,146	\$ (39,853)
Branch 2 Tile	\$ 163,422	\$ 216,647	\$ 53,225
Branch 2 Fork 1 Tile	\$ 25,535	\$ 23,757	\$ (1,778)
Branch 2 Fork 2 Tile	\$ 94,318	\$ 135,402	\$ 41,084
Branch 2 Fork 2 Spur 1 Tile	\$ 11,161	\$ 15,587	\$ 4,427
Branch 3 Open Ditch	\$ 53,406	\$ 108,714	\$ 55,308
Branch 5 Open Ditch	\$ 27,650	\$ 42,797	\$ 15,147
Branch 5 Tile	\$ 147,371	\$ 131,597	\$ (15,774)
Branch 5 Fork 1 Tile	\$ 80,722	\$ 121,046	\$ 40,323
Branch 6 Open Ditch	\$ 27,002	\$ 90,486	\$ 63,484
Branch 6 Tile	\$ 246,609	\$ 418,522	\$ 171,914
Branch 6 (Extension) Tile	\$ -	\$ 402,317	\$ 402,317
Branch 6 Fork 1 Tile	\$ 11,867	\$ 20,191	\$ 8,324
Branch 8 Open Ditch	\$ 48,200	\$ 81,159	\$ 32,959
Branch 9 Tile	\$ 171,520	\$ 176,653	\$ 5,133
Culvert Crossing #1 (Hallman Crossing)	\$ 63,315	\$ 65,669	\$ 2,354
Culvert Crossing #2 (Anderson Driveway)	\$ 11,688	\$ 17,216	\$ 5,528
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,113	\$ 19,545	\$ 432
Branch 6 Option 1 Crossing	\$ -	\$ 30,188	\$ 30,188
<b>Subtotal without Road Crossings</b>	<b>\$ 1,826,133</b>	<b>\$ 2,712,680</b>	<b>\$ 886,548</b>
<b>Road Authority Cost</b>	<b>\$ 92,382</b>	<b>\$ 92,382</b>	<b>\$ -</b>
<b>Damages Paid To Road Authority</b>	<b>\$ 18,955</b>	<b>\$ 37,115</b>	<b>\$ 18,160</b>
<b>Total</b>	<b>\$ 1,937,470</b>	<b>\$ 2,842,178</b>	<b>\$ 904,708</b>
		Subtotal Landowner Costs	\$ 2,749,795
		Net Costs	\$ 904,708
		Redetermination of Benefits Costs	\$ 32,238
		Permanent Damages (Buffer Strip Acquisition)	\$ 151,220
		<b>Total Project Costs for Landowners</b>	<b>\$ 2,933,253</b>
		Benefits (Per Ditch Viewer Report)	\$ 1,930,000
		<b>Net Benefit</b>	<b>\$ 1,025,292</b>

**STEVENS COUNTY  
COUNTY DITCH No. 25**



**PROPOSED IMPROVEMENT OPTION 2 COST SUMMARY**

Area	Separable Maintenance	Improvement Cost	Net Cost
Main Open Ditch Option 2	\$ 432,494	\$ 574,476	\$ 141,982
Main East Tile	\$ -	\$ 41,866	\$ 41,866
Main West Tile	\$ 135,741	\$ 68,054	\$ (67,687)
Branch 1 Tile	\$ 54,999	\$ 15,146	\$ (39,853)
Branch 2 Tile	\$ 163,422	\$ 216,647	\$ 53,225
Branch 2 Fork 1 Tile	\$ 25,535	\$ 23,757	\$ (1,778)
Branch 2 Fork 2 Tile	\$ 94,318	\$ 135,402	\$ 41,084
Branch 2 Fork 2 Spur 1 Tile	\$ 11,161	\$ 15,587	\$ 4,427
Branch 3 Open Ditch	\$ 53,406	\$ 108,714	\$ 55,308
Branch 5 Open Ditch	\$ 27,650	\$ 42,797	\$ 15,147
Branch 5 Tile	\$ 147,371	\$ 131,597	\$ (15,774)
Branch 5 Fork 1 Tile	\$ 80,722	\$ 121,046	\$ 40,323
Branch 6 Open Ditch	\$ 27,002	\$ 90,486	\$ 63,484
Branch 6 Tile	\$ 246,609	\$ 418,522	\$ 171,914
Branch 6 (Extension) Tile	\$ -	\$ 402,317	\$ 402,317
Branch 6 Fork 1 Tile	\$ 11,867	\$ 20,191	\$ 8,324
Branch 8 Open Ditch	\$ 48,200	\$ 81,159	\$ 32,959
Branch 9 Tile	\$ 171,520	\$ 176,653	\$ 5,133
Culvert Crossing #1 (Hallman Crossing)	\$ 63,315	\$ 65,669	\$ 2,354
Culvert Crossing #2 (Anderson Driveway)	\$ 11,688	\$ 17,216	\$ 5,528
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,113	\$ 19,545	\$ 432
Main Ditch Option 2 Culvert Crossing	\$ -	\$ 27,719	\$ 27,719
Storage Basin Option 2	\$ -	\$ 476,121	\$ 476,121
<b>Subtotal without Road Crossings</b>	<b>\$ 1,826,133</b>	<b>\$ 3,290,689</b>	<b>\$ 1,464,556</b>
<b>Road Authority Cost</b>	\$ 92,382	\$ 92,382	\$ -
<b>Damages Paid To Road Authority</b>	\$ 18,955	\$ 37,115	\$ 18,160
<b>Total</b>	<b>\$ 1,937,470</b>	<b>\$ 3,420,186</b>	<b>\$ 1,482,716</b>
		Subtotal Landowner Costs	\$ 3,327,804
		Net Costs	\$ 1,482,716
		Redetermination of Benefits Costs	\$ 32,238
		Permanent Damages (Buffer Strip Acquisition)	\$ 151,220
		<b>Total Project Costs for Landowners</b>	<b>\$ 3,511,262</b>
		Benefits (Per Ditch Viewer Report)	\$ 1,930,000
		<b>Net Benefit</b>	<b>\$ 447,284</b>

**STEVENS COUNTY  
COUNTY DITCH No. 25**



**PROPOSED IMPROVEMENT OPTION 1A COST SUMMARY**

Area	Separable Maintenance	Improvement Cost	Net Cost
Main Open Ditch Option 1	\$ 432,494	\$ 470,120	\$ 37,626
Main East Tile	\$ -	\$ 41,866	\$ 41,866
Main West Tile	\$ 192,116	\$ 68,054	\$ (124,062)
Branch 1 Tile	\$ 54,999	\$ 15,146	\$ (39,853)
Branch 2 "A" Tile	\$ 163,422	\$ 319,622	\$ 156,200
Branch 2 Fork 1 Tile	\$ 25,535	\$ 23,757	\$ (1,778)
Branch 2 Fork 2 "A" Tile	\$ 94,318	\$ 206,089	\$ 111,771
Branch 2 Fork 2 Spur 1 Tile	\$ 11,161	\$ 15,587	\$ 4,427
Branch 3 Open Ditch	\$ 53,406	\$ 108,714	\$ 55,308
Branch 5 Open Ditch	\$ 27,650	\$ 42,797	\$ 15,147
Branch 5 Tile	\$ 147,371	\$ 131,597	\$ (15,774)
Branch 5 Fork 1 Tile	\$ 80,722	\$ 121,046	\$ 40,323
Branch 6 Open Ditch	\$ 27,002	\$ 90,486	\$ 63,484
Branch 6 "A" Tile	\$ 412,627	\$ 658,524	\$ 245,897
Branch 6 (Extension) "A" Tile		\$ 750,490	\$ 750,490
Branch 6 Fork 1 Tile	\$ 11,867	\$ 20,191	\$ 8,324
Branch 8 Open Ditch	\$ 48,200	\$ 81,159	\$ 32,959
Branch 9 "A" Tile	\$ 171,520	\$ 270,519	\$ 98,999
Culvert Crossing #1 (Hallman Crossing)	\$ 63,315	\$ 65,669	\$ 2,354
Culvert Crossing #2 (Anderson Driveway)	\$ 11,688	\$ 17,216	\$ 5,528
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,113	\$ 19,545	\$ 432
Branch 6 Option 1 Crossing	\$ -	\$ 30,188	\$ 30,188
<b>Subtotal without Road Crossings</b>	<b>\$ 2,048,526</b>	<b>\$ 3,568,383</b>	<b>\$ 1,519,857</b>
<b>Road Authority Cost</b>	<b>\$ 92,382</b>	<b>\$ 92,382</b>	<b>\$ -</b>
<b>Damages Paid To Road Authority</b>	<b>\$ 18,955</b>	<b>\$ 37,115</b>	<b>\$ 18,160</b>
<b>Total</b>	<b>\$ 2,159,863</b>	<b>\$ 3,697,880</b>	<b>\$ 1,538,017</b>
		Subtotal Landowner Costs	\$ 3,605,498
		Net Costs	\$ 1,538,017
		Redetermination of Benefits Costs	\$ 32,238
		Permanent Damages (Buffer Strip Acquisition)	\$ 151,220
		<b>Total Project Costs for Landowners</b>	<b>\$ 3,788,956</b>
		Benefits (Per Ditch Viewer Report)	\$ 1,930,000
		<b>Net Benefit</b>	<b>\$ 391,983</b>



**STEVENS COUNTY  
COUNTY DITCH No. 25**



**PROPOSED IMPROVEMENT OPTION 2A COST SUMMARY**

Area	Separable Maintenance	Improvement Cost	Net Cost
Main Open Ditch Option 2	\$ 432,494	\$ 574,476	\$ 141,982
Main East Tile	\$ -	\$ 41,866	\$ 41,866
Main West Tile	\$ 192,116	\$ 68,054	\$ (124,062)
Branch 1 Tile	\$ 54,999	\$ 15,146	\$ (39,853)
Branch 2 "A" Tile	\$ 163,422	\$ 319,622	\$ 156,200
Branch 2 Fork 1 Tile	\$ 25,535	\$ 23,757	\$ (1,778)
Branch 2 Fork 2 "A" Tile	\$ 94,318	\$ 206,089	\$ 111,771
Branch 2 Fork 2 Spur 1 Tile	\$ 11,161	\$ 15,587	\$ 4,427
Branch 3 Open Ditch	\$ 53,406	\$ 108,714	\$ 55,308
Branch 5 Open Ditch	\$ 27,650	\$ 42,797	\$ 15,147
Branch 5 Tile	\$ 147,371	\$ 131,597	\$ (15,774)
Branch 5 Fork 1 Tile	\$ 80,722	\$ 121,046	\$ 40,323
Branch 6 Open Ditch	\$ 27,002	\$ 90,486	\$ 63,484
Branch 6 "A" Tile	\$ 412,627	\$ 658,524	\$ 245,897
Branch 6 (Extension) "A" Tile	\$ -	\$ 750,490	\$ 750,490
Branch 6 Fork 1 Tile	\$ 11,867	\$ 20,191	\$ 8,324
Branch 8 Open Ditch	\$ 48,200	\$ 81,159	\$ 32,959
Branch 9 "A" Tile	\$ 171,520	\$ 270,519	\$ 98,999
Culvert Crossing #1 (Hallman Crossing)	\$ 63,315	\$ 65,669	\$ 2,354
Culvert Crossing #2 (Anderson Driveway)	\$ 11,688	\$ 17,216	\$ 5,528
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,113	\$ 19,545	\$ 432
Main Ditch Option 2 Culvert Crossing	\$ -	\$ 27,719	\$ 27,719
Storage Basin Option 2	\$ -	\$ 476,121	\$ 476,121
<b>Subtotal without Road Crossings</b>	<b>\$ 2,048,526</b>	<b>\$ 4,146,392</b>	<b>\$ 2,097,866</b>
<b>Road Authority Cost</b>	\$ 92,382	\$ 92,382	\$ -
<b>Damages Paid To Road Authority</b>	\$ 18,955	\$ 37,115	\$ 18,160
<b>Total</b>	<b>\$ 2,159,863</b>	<b>\$ 4,275,889</b>	<b>\$ 2,116,026</b>
		Subtotal Landowner Costs	\$ 4,183,507
		Net Costs	\$ 2,116,026
		Redetermination of Benefits Costs	\$ 32,238
		Permanent Damages (Buffer Strip Acquisition)	\$ 151,220
		<b>Total Project Costs for Landowners</b>	<b>\$ 4,366,964</b>
		Benefits (Per Ditch Viewer Report)	\$ 1,930,000
		<b>Net Benefit</b>	<b>\$ (186,026)</b>

**STEVENS COUNTY  
COUNTY DITCH No. 25**



**PROPOSED LATERAL ESTABLISHMENT COST SUMMARY**

<b>Area</b>	<b>Separable Maintenance</b>	<b>Improvement Cost</b>	<b>Net Cost</b>
Branch 5 Fork 2 Tile	\$ -	\$ 33,686	\$ 33,686
<b>Subtotal without Road Crossings</b>	<b>\$ -</b>	<b>\$ 33,686</b>	<b>\$ 33,686</b>
<b>Road Authority Cost</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Damages Paid To Road Authority</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ -</b>	<b>\$ 33,686</b>	<b>\$ 33,686</b>
Subtotal Landowner Costs			\$ 33,686
Net Costs			\$ 33,686
Redetermination of Benefits Costs			\$ -
Permanent Damages (Buffer Strip Acquisition)			\$ -
<b>Total Project Costs for Landowners</b>			<b>\$ 33,686</b>
Benefits (Per Ditch Viewer Report)			\$ 104,000
<b>Net Benefit</b>			<b>\$ 70,314</b>

**STEVENS COUNTY  
COUNTY DITCH No. 25**



**TOTAL PROJECT COST - OPTION 1**

Area	Separable Maintenance	Improvement Cost	Net Cost
Improvement Project - Option 1	\$ 1,826,133	\$ 2,712,680	\$ 886,548
Establishment Project - Branch 5 Fork 2	\$ -	\$ 33,686	\$ 33,686
<b>Subtotal without Road Crossings</b>	<b>\$ 1,826,133</b>	<b>\$ 2,746,367</b>	<b>\$ 920,234</b>
<b>Road Authority Cost</b>	<b>\$ 92,382</b>	<b>\$ 92,382</b>	<b>\$ -</b>
<b>Damages Paid To Road Authority</b>	<b>\$ 18,955</b>	<b>\$ 37,115</b>	<b>\$ 18,160</b>
<b>Total</b>	<b>\$ 1,937,470</b>	<b>\$ 2,875,864</b>	<b>\$ 938,394</b>
Subtotal Landowner Costs			\$ 2,783,482
Net Costs			\$ 938,394
Redetermination of Benefits Costs			\$ 32,238
Permanent Damages (Buffer Strip Acquisition)			\$ 151,220
<b>Total Project Costs for Landowners</b>			<b>\$ 2,966,939</b>
Benefits (Per Ditch Viewer Report)			\$ 2,034,000
<b>Net Benefit</b>			<b>\$ 1,095,606</b>

**TOTAL PROJECT COST - OPTION 2**

Area	Separable Maintenance	Improvement Cost	Net Cost
Improvement Project - Option 2	\$ 1,826,133	\$ 3,290,689	\$ 1,464,556
Establishment Project - Branch 5 Fork 2	\$ -	\$ 33,686	\$ 33,686
<b>Subtotal without Road Crossings</b>	<b>\$ 1,826,133</b>	<b>\$ 3,324,375</b>	<b>\$ 1,498,243</b>
<b>Road Authority Cost</b>	<b>\$ 92,382</b>	<b>\$ 92,382</b>	<b>\$ -</b>
<b>Damages Paid To Road Authority</b>	<b>\$ 18,955</b>	<b>\$ 37,115</b>	<b>\$ 18,160</b>
<b>Total</b>	<b>\$ 1,937,470</b>	<b>\$ 3,453,873</b>	<b>\$ 1,516,403</b>
Subtotal Landowner Costs			\$ 3,361,490
Net Costs			\$ 1,516,403
Redetermination of Benefits Costs			\$ 87,546
Permanent Damages (Buffer Strip Acquisition)			\$ 166,367
<b>Total Project Costs for Landowners</b>			<b>\$ 3,615,403</b>
Benefits (Per Ditch Viewer Report)			\$ 2,034,000
<b>Net Benefit</b>			<b>\$ 517,597</b>



SEPARABLE MAINTANENCE (REPAIR)

Main Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 7,140.00	\$ 7,140
102	INSTALL 18-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	4	\$ 1,400.00	\$ 5,600
103	INSTALL 15-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,300.00	\$ 2,600
104	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,275.00	\$ 2,550
105	INSTALL 12-INCH ASI RISER ASSEMBLY W/SLOTTED HICKENBOTTOM	EA	1	\$ 1,200.00	\$ 1,200
106	INSTALL 12-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	2	\$ 1,125.00	\$ 2,250
107	INSTALL 10-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,150.00	\$ 1,150
108	INSTALL 10-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 1,075.00	\$ 1,075
109	INSTALL 8-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 850.00	\$ 850
110	INSTALL 18-INCH ASI OUTLET ASSEMBLY	EA	4	\$ 900.00	\$ 3,600
111	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 825.00	\$ 1,650
112	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	5	\$ 800.00	\$ 4,000
113	INSTALL 10-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 800.00	\$ 1,600
114	INSTALL 8-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 500.00	\$ 500
115	CLASS III RIPRAP WITH GEOTEXTILE FABRIC (FOR	CY	120	\$ 72.50	\$ 8,700
116	DITCH CLEANING (8' WIDE DITCH BOTTOM)	LF	6436	\$ 1.75	\$ 11,263
117	DITCH CLEANING (6' WIDE DITCH BOTTOM)	LF	21783	\$ 1.60	\$ 34,853
118	TOP SOIL STRIP & PLACE SPOILS	AC	2.4	\$ 4,212.60	\$ 10,110
119	DITCH SIDESLOPE REPAIR	LF	455	\$ 6.60	\$ 3,003
120	30-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 2,161.70	\$ 4,323
121	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,450.00	\$ 2,900
122	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	14	\$ 1,250.00	\$ 17,500
123	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$ 1,100.00	\$ 3,300
124	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	5	\$ 1,050.00	\$ 5,250
125	8-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	6	\$ 800.00	\$ 4,800
126	6-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	6	\$ 600.00	\$ 3,600
127	4-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 575.00	\$ 575
128	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	4	\$ 750.00	\$ 2,925
129	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	21.38	\$ 1,200.00	\$ 25,656
130	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	12.96	\$ 6,750.00	\$ 87,480
131	BUFFER STRIP MOWING	AC	42.76	\$ 100.00	\$ 4,276
132	WEED SPRAYING	AC	55.72	\$ 100.00	\$ 5,572
133	CONSTRUCT 12-FOOT BENCH	LF	10450	\$ 1.25	\$ 13,063
<b>TOTAL</b>					<b>\$ 285,000</b>
10% UNFORSEEN					\$ 28,500
<b>SUBTOTAL</b>					<b>\$ 313,500</b>
TEMPORARY DAMAGES		AC	21.38	\$ 650.00	\$ 13,896
LAND ACQUISITION/ PERMANENT DAMAGES		AC	0.00	\$ 6,500.00	\$ -
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 15,675
TOPOGRAPHIC SURVEY					\$ 26,723
REPORTS, PLANS AND SPECIFICATIONS					\$ 31,350
CONSTRUCTION STAKING & ADMINISTRATION					\$ 31,350
<b>TOTAL MAIN OPEN DITCH REPAIR COST</b>					<b>\$ 432,494</b>



SEPARABLE MAINTANENCE (REPAIR)

Culvert Crossing #1 (Hallman Crossing)

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,210.00	\$ 2,210
102	6-FOOT x 5-FOOT RC BOX CULVERT	LF	60	\$ 675.00	\$ 40,500
103	OPEN CUT & RESTORE FIELD CROSSING	EA	1	\$ 1,100.00	\$ 1,100
104	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	30	\$ 72.50	\$ 2,175
<b>TOTAL</b>					<b>\$ 46,000</b>
10% UNFORSEEN					\$ 4,600
<b>SUBTOTAL</b>					<b>\$ 50,600</b>
TEMPORARY DAMAGES		AC	0.10	\$ 650.00	\$ 65
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 2,530
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 5,060
CONSTRUCTION STAKING & ADMINISTRATION					\$ 5,060
<b>TOTAL CULVERT CROSSING #1 (HALLMAN CROSSING) REPAIR COST</b>					<b>\$ 63,315</b>

Main Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 4,370.00	\$ 4,370
102	TILE INVESTIGATION	HR	6	\$ 149.40	\$ 896
103	24-INCH AGRICULTURAL TILE	LF	1500	\$ 29.00	\$ 43,500
104	15-INCH AGRICULTURAL TILE	LF	1300	\$ 22.00	\$ 28,600
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	12	\$ 500.00	\$ 6,000
106	CONNECT EXISTING 18-INCH TILE	EA	2	\$ 1,100.00	\$ 2,200
107	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
108	GRANULAR PIPE FOUNDATION	CY	81.85	\$ 27.60	\$ 2,259
109	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 725.00	\$ 2,175
110	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 91,100</b>
10% UNFORSEEN					\$ 9,110
<b>SUBTOTAL</b>					<b>\$ 100,210</b>
TEMPORARY DAMAGES		AC	6.43	\$ 650.00	\$ 4,178
TELEVISIONING (POST CONSTRUCTION)		LF	2800	\$ 1.00	\$ 2,800
COUNTY ADMINISTRATION COSTS					\$ 5,011
TOPOGRAPHIC SURVEY					\$ 3,500
REPORTS, PLANS AND SPECIFICATIONS					\$ 10,021
CONSTRUCTION STAKING & ADMINISTRATION					\$ 10,021
<b>TOTAL MAIN TILE REPAIR COST</b>					<b>\$ 135,741</b>

Branch 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,690.00	\$ 1,690
102	TILE INVESTIGATION	HR	4	\$ 149.40	\$ 598
103	10-INCH AGRICULTURAL TILE	LF	1800	\$ 14.00	\$ 25,200
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	8	\$ 500.00	\$ 4,000
105	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
106	GRANULAR PIPE FOUNDATION	CY	39.33	\$ 27.60	\$ 1,086
107	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 725.00	\$ 1,450
108	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 35,100</b>
10% UNFORSEEN					\$ 3,510
<b>SUBTOTAL</b>					<b>\$ 38,610</b>
TEMPORARY DAMAGES		AC	4.13	\$ 650.00	\$ 2,686
TELEVISIONING (POST CONSTRUCTION)		LF	1800	\$ 1.00	\$ 1,800
COUNTY ADMINISTRATION COSTS					\$ 1,931
TOPOGRAPHIC SURVEY					\$ 2,250
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,861
CONSTRUCTION STAKING & ADMINISTRATION					\$ 3,861
<b>TOTAL BRANCH 1 TILE REPAIR COST</b>					<b>\$ 54,999</b>



SEPARABLE MAINTANENCE (REPAIR)

Branch 2 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 5,230.00	\$ 5,230
102	TILE INVESTIGATION	HR	8	\$ 149.40	\$ 1,195
103	18-INCH AGRICULTURAL TILE	LF	1420	\$ 26.00	\$ 36,920
104	15-INCH AGRICULTURAL TILE	LF	1200	\$ 22.00	\$ 26,400
105	10-INCH AGRICULTURAL TILE	LF	800	\$ 14.00	\$ 11,200
106	8-INCH AGRICULTURAL TILE	LF	200	\$ 13.00	\$ 2,600
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	15	\$ 500.00	\$ 7,500
108	CONNECT EXISTING 12-INCH TILE	EA	2	\$ 850.00	\$ 1,700
109	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
110	SAND OR CLSM FILL PIPE UNDER ROAD (10-INCH)	LF	100	\$ 10.10	\$ 1,010
111	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
112	GRANULAR PIPE FOUNDATION	CY	93	\$ 27.60	\$ 2,567
113	FURNISH & INSTALL WATER QUALITY INLET	EA	4	\$ 1,500.00	\$ 6,000
114	INSTALL 12-INCH PERFORATED TILE	LF	120	\$ 15.75	\$ 1,890
115	INSTALL DROP INTAKE (18-INCH)	EA	4	\$ 725.00	\$ 2,900
116	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 109,000</b>
10% UNFORSEEN					\$ 10,900
<b>SUBTOTAL</b>					<b>\$ 119,900</b>
TEMPORARY DAMAGES		AC	8.31	\$ 650.00	\$ 5,402
TELEVISIONING (POST CONSTRUCTION)		LF	3620	\$ 1.00	\$ 3,620
COUNTY ADMINISTRATION COSTS					\$ 5,995
TOPOGRAPHIC SURVEY					\$ 4,525
REPORTS, PLANS AND SPECIFICATIONS					\$ 11,990
CONSTRUCTION STAKING & ADMINISTRATION					\$ 11,990
<b>TOTAL BRANCH 2 TILE REPAIR COST</b>					<b>\$ 163,422</b>

Branch 2 Fork 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 820.00	\$ 820
102	TILE INVESTIGATION	HR	2	\$ 149.40	\$ 299
103	8-INCH AGRICULTURAL TILE	LF	577	\$ 13.00	\$ 7,501
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	3	\$ 500.00	\$ 1,500
105	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
106	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
107	GRANULAR PIPE FOUNDATION	CY	11.79	\$ 27.60	\$ 325
108	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
109	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
110	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
111	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 17,000</b>
10% UNFORSEEN					\$ 1,700
<b>SUBTOTAL</b>					<b>\$ 18,700</b>
TEMPORARY DAMAGES		AC	1.32	\$ 650.00	\$ 861
TELEVISIONING (POST CONSTRUCTION)		LF	577	\$ 1.00	\$ 577
COUNTY ADMINISTRATION COSTS					\$ 935
TOPOGRAPHIC SURVEY					\$ 722
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,870
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,870
<b>TOTAL BRANCH 2 FORK 1 TILE REPAIR COST</b>					<b>\$ 25,535</b>

Branch 2 Fork 2 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,960.00	\$ 2,960
102	TILE INVESTIGATION	HR	6	\$ 149.40	\$ 896
103	12-INCH AGRICULTURAL TILE	LF	1865	\$ 18.00	\$ 33,570
104	8-INCH AGRICULTURAL TILE	LF	705	\$ 13.00	\$ 9,165
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$ 500.00	\$ 5,500
106	CONNECT EXISTING 6-INCH TILE	EA	1	\$ 375.00	\$ 375
107	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
108	GRANULAR PIPE FOUNDATION	CY	58.73	\$ 27.60	\$ 1,621
109	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
110	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
111	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 725.00	\$ 2,175
112	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 61,600</b>
10% UNFORSEEN					\$ 6,160
<b>SUBTOTAL</b>					<b>\$ 67,760</b>
TEMPORARY DAMAGES		AC	5.90	\$ 650.00	\$ 3,835
TELEVISIONING (POST CONSTRUCTION)		LF	2570	\$ 1.00	\$ 2,570
COUNTY ADMINISTRATION COSTS					\$ 3,388
TOPOGRAPHIC SURVEY					\$ 3,213
REPORTS, PLANS AND SPECIFICATIONS					\$ 6,776
CONSTRUCTION STAKING & ADMINISTRATION					\$ 6,776
<b>TOTAL BRANCH 2 FORK 2 TILE REPAIR COST</b>					<b>\$ 94,318</b>



SEPARABLE MAINTANENCE (REPAIR)

Branch 2 Fork 2 Spur 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 350.00	\$ 350
102	TILE INVESTIGATION	HR	1	\$ 149.40	\$ 149
103	8-INCH AGRICULTURAL TILE	LF	300	\$ 13.00	\$ 3,900
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
105	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
106	GRANULAR PIPE FOUNDATION	CY	6.13	\$ 27.60	\$ 169
107	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
108	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 7,300</b>
10% UNFORSEEN					\$ 730
<b>SUBTOTAL</b>					<b>\$ 8,030</b>
TEMPORARY DAMAGES		AC	0.69	\$ 650.00	\$ 448
TELEVISIONING (POST CONSTRUCTION)		LF	300	\$ 1.00	\$ 300
COUNTY ADMINISTRATION COSTS					\$ 402
TOPOGRAPHIC SURVEY					\$ 375
REPORTS, PLANS AND SPECIFICATIONS					\$ 803
CONSTRUCTION STAKING & ADMINISTRATION					\$ 803
<b>TOTAL BRANCH 2 FORK 2 SPUR 1 TILE REPAIR COST</b>					<b>\$ 11,161</b>

Branch 3 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,720.00	\$ 1,720
102	INSTALL 24-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,700.00	\$ 3,400
103	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,275.00	\$ 1,275
104	INSTALL 24-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 1,100.00	\$ 2,200
105	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 825.00	\$ 825
106	CLASS III RIPRAP WITH GEOTEXTILE FABRIC (FOR ASIRO)	CY	60	\$ 72.50	\$ 4,350
107	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	3000	\$ 1.50	\$ 4,500
108	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,250.00	\$ 2,500
109	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,050.00	\$ 1,050
110	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1	\$ 750.00	\$ 750
111	16.5' BUFFER STRIP SEEDING	AC	2.28	\$ 1,200.00	\$ 2,736
112	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	1.38	\$ 6,750.00	\$ 9,315
113	BUFFER STRIP MOWING	AC	4.56	\$ 100.00	\$ 456
114	WEED SPRAYING	AC	5.94	\$ 100.00	\$ 594
<b>TOTAL</b>					<b>\$ 35,700</b>
10% UNFORSEEN					\$ 3,570
<b>SUBTOTAL</b>					<b>\$ 39,270</b>
TEMPORARY DAMAGES		AC	2.27	\$ 650.00	\$ 1,477
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 1,964
TOPOGRAPHIC SURVEY					\$ 2,841
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,927
CONSTRUCTION STAKING & ADMINISTRATION					\$ 3,927
<b>TOTAL BRANCH 3 OPEN DITCH REPAIR COST</b>					<b>\$ 53,406</b>

Branch 5 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 850.00	\$ 850
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	2300	\$ 1.50	\$ 3,450
103	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,250.00	\$ 2,500
104	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1	\$ 750.00	\$ 750
105	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	1.75	\$ 1,200.00	\$ 2,100
106	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	1.06	\$ 6,750.00	\$ 7,155
107	BUFFER STRIP MOWING	AC	3.5	\$ 100.00	\$ 350
108	WEED SPRAYING	AC	4.56	\$ 100.00	\$ 456
<b>TOTAL</b>					<b>\$ 17,700</b>
10% UNFORSEEN					\$ 1,770
<b>SUBTOTAL</b>					<b>\$ 19,470</b>
TEMPORARY DAMAGES		AC	1.74	\$ 650.00	\$ 1,133
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 974
TOPOGRAPHIC SURVEY					\$ 2,179
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,947
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,947
<b>TOTAL BRANCH 5 OPEN DITCH REPAIR COST</b>					<b>\$ 27,650</b>



SEPARABLE MAINTANENCE (REPAIR)

Branch 5 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 4,640.00	\$ 4,640
102	TILE INVESTIGATION	HR	8	\$ 149.40	\$ 1,195
103	18-INCH AGRICULTURAL TILE	LF	175	\$ 26.00	\$ 4,550
104	15-INCH AGRICULTURAL TILE	LF	1370	\$ 22.00	\$ 30,140
105	12-INCH AGRICULTURAL TILE	LF	1025	\$ 18.00	\$ 18,450
106	10-INCH AGRICULTURAL TILE	LF	1030	\$ 14.00	\$ 14,420
107	8-INCH AGRICULTURAL TILE	LF	250	\$ 13.00	\$ 3,250
108	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	16	\$ 500.00	\$ 8,000
109	CONNECT EXISTING 12-INCH TILE	EA	2	\$ 850.00	\$ 1,700
110	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
111	GRANULAR PIPE FOUNDATION	CY	92.46	\$ 27.60	\$ 2,552
112	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
113	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
114	INSTALL DROP INTAKE (18-INCH)	EA	4	\$ 725.00	\$ 2,900
115	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 96,700</b>
10% UNFORSEEN					\$ 9,670
<b>SUBTOTAL</b>					<b>\$ 106,370</b>
TEMPORARY DAMAGES		AC	8.84	\$ 650.00	\$ 5,745
TELEVISIONING (POST CONSTRUCTION)		LF	3850	\$ 1.00	\$ 3,850
COUNTY ADMINISTRATION COSTS					\$ 5,319
TOPOGRAPHIC SURVEY					\$ 4,813
REPORTS, PLANS AND SPECIFICATIONS					\$ 10,637
CONSTRUCTION STAKING & ADMINISTRATION					\$ 10,637
<b>TOTAL BRANCH 5 TILE REPAIR COST</b>					<b>\$ 147,371</b>

Branch 5 Fork 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,530.00	\$ 2,530
102	TILE INVESTIGATION	HR	5	\$ 149.40	\$ 747
103	12-INCH AGRICULTURAL TILE	LF	1205	\$ 18.00	\$ 21,690
104	10-INCH AGRICULTURAL TILE	LF	1005	\$ 14.00	\$ 14,070
105	8-INCH AGRICULTURAL TILE	LF	34	\$ 13.00	\$ 442
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	9	\$ 500.00	\$ 4,500
107	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
108	GRANULAR PIPE FOUNDATION	CY	51.29	\$ 27.60	\$ 1,416
109	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
110	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
111	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 725.00	\$ 2,175
112	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 52,600</b>
10% UNFORSEEN					\$ 5,260
<b>SUBTOTAL</b>					<b>\$ 57,860</b>
TEMPORARY DAMAGES		AC	5.15	\$ 650.00	\$ 3,348
TELEVISIONING (POST CONSTRUCTION)		LF	2244	\$ 1.00	\$ 2,244
COUNTY ADMINISTRATION COSTS					\$ 2,893
TOPOGRAPHIC SURVEY					\$ 2,805
REPORTS, PLANS AND SPECIFICATIONS					\$ 5,786
CONSTRUCTION STAKING & ADMINISTRATION					\$ 5,786
<b>TOTAL BRANCH 5 FORK 1 TILE REPAIR COST</b>					<b>\$ 80,722</b>





SEPARABLE MAINTANENCE (REPAIR)

Branch 6 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 760.00	\$ 760
102	INSTALL 15-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,300.00	\$ 1,300
103	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,275.00	\$ 1,275
104	INSTALL 10-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 1,075.00	\$ 1,075
105	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 825.00	\$ 825
106	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 800.00	\$ 800
107	INSTALL 10-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 800.00	\$ 800
108	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	3570	\$ 1.50	\$ 5,355
109	30-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 2,161.70	\$ 2,162
110	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,450.00	\$ 1,450
111	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,250.00	\$ 1,250
112	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,100.00	\$ 1,100
113	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,050.00	\$ 2,100
114	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1	\$ 750.00	\$ 750
115	16.5' BUFFER STRIP SEEDING	AC	2.71	\$ 1,200.00	\$ 3,252
116	STANDARD SIDESLOPE SEEDING	AC	1.64	\$ 6,750.00	\$ 11,070
117	BUFFER STRIP MOWING	AC	5.42	\$ 100.00	\$ 542
118	WEED SPRAYING	AC	7.06	\$ 100.00	\$ 706
<b>TOTAL</b>					<b>\$ 15,900</b>
10% UNFORSEEN					\$ 1,590
<b>SUBTOTAL</b>					<b>\$ 17,490</b>
TEMPORARY DAMAGES		AC	2.70	\$ 650.00	\$ 1,758
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 875
TOPOGRAPHIC SURVEY					\$ 3,381
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,749
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,749
<b>TOTAL BRANCH 6 OPEN DITCH REPAIR COST</b>					<b>\$ 27,002</b>

Branch 6 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 8,010.00	\$ 8,010
102	TILE INVESTIGATION	HR	10	\$ 149.40	\$ 1,494
103	24-INCH AGRICULTURAL TILE	LF	4575	\$ 29.00	\$ 132,675
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	19	\$ 500.00	\$ 9,500
105	CONNECT EXISTING 24-INCH TILE	EA	1	\$ 1,900.00	\$ 1,900
106	CONNECT EXISTING 10-INCH TILE	EA	2	\$ 575.00	\$ 1,150
107	GRANULAR PIPE FOUNDATION	CY	146.85	\$ 27.60	\$ 4,053
108	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
109	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
110	INSTALL DROP INTAKE (18-INCH)	EA	5	\$ 725.00	\$ 3,625
111	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 166,900</b>
10% UNFORSEEN					\$ 16,690
<b>SUBTOTAL</b>					<b>\$ 183,590</b>
TEMPORARY DAMAGES		AC	10.50	\$ 650.00	\$ 6,827
TELEVISIONING (POST CONSTRUCTION)		LF	4575	\$ 1.00	\$ 4,575
COUNTY ADMINISTRATION COSTS					\$ 9,180
TOPOGRAPHIC SURVEY					\$ 5,719
REPORTS, PLANS AND SPECIFICATIONS					\$ 18,359
CONSTRUCTION STAKING & ADMINISTRATION					\$ 18,359
<b>TOTAL BRANCH 6 TILE REPAIR COST</b>					<b>\$ 246,609</b>



SEPARABLE MAINTANENCE (REPAIR)

Branch 6 Fork 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 380.00	\$ 380
102	TILE INVESTIGATION	HR	1	\$ 149.40	\$ 149
103	10-INCH AGRICULTURAL TILE	LF	305	\$ 14.00	\$ 4,270
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
105	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
106	GRANULAR PIPE FOUNDATION	CY	6.66	\$ 27.60	\$ 184
107	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
108	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 7,800</b>
10% UNFORSEEN					\$ 780
<b>SUBTOTAL</b>					<b>\$ 8,580</b>
TEMPORARY DAMAGES		AC	0.70	\$ 650.00	\$ 455
TELEVISIONING (POST CONSTRUCTION)		LF	305	\$ 1.00	\$ 305
COUNTY ADMINISTRATION COSTS					\$ 429
TOPOGRAPHIC SURVEY					\$ 382
REPORTS, PLANS AND SPECIFICATIONS					\$ 858
CONSTRUCTION STAKING & ADMINISTRATION					\$ 858
<b>TOTAL BRANCH 6 FORK 1 TILE REPAIR COST</b>					<b>\$ 11,867</b>

Branch 8 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,520.00	\$ 1,520
102	INSTALL 12-INCH ASI RISER ASSEMBLY W/SLOTTED HICKENBOTTOM	EA	1	\$ 1,200.00	\$ 1,200
103	INSTALL 8-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,000.00	\$ 1,000
104	INSTALL 8-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 850.00	\$ 850
105	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 800.00	\$ 800
106	INSTALL 8-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 500.00	\$ 1,000
107	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	3300	\$ 1.50	\$ 4,950
108	42-INCH TILE OUTLET	EA	2	\$ 2,459.30	\$ 4,919
109	36-INCH TILE OUTLET	EA	1	\$ 2,169.70	\$ 2,170
110	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1	\$ 750.00	\$ 750
111	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	1.25	\$ 1,200.00	\$ 1,500
112	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	1.52	\$ 6,750.00	\$ 10,260
113	BUFFER STRIP MOWING	AC	2.5	\$ 100.00	\$ 250
114	WEED SPRAYING	AC	4.02	\$ 100.00	\$ 402
<b>TOTAL</b>					<b>\$ 31,600</b>
10% UNFORSEEN					\$ 3,160
<b>SUBTOTAL</b>					<b>\$ 34,760</b>
TEMPORARY DAMAGES		AC	2.50	\$ 650.00	\$ 1,625
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 1,738
TOPOGRAPHIC SURVEY					\$ 3,125
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,476
CONSTRUCTION STAKING & ADMINISTRATION					\$ 3,476
<b>TOTAL BRANCH 8 OPEN DITCH REPAIR COST</b>					<b>\$ 48,200</b>

Branch 9 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 5,490.00	\$ 5,490
102	TILE INVESTIGATION	HR	8	\$ 149.40	\$ 1,195
103	18-INCH AGRICULTURAL TILE	LF	2780	\$ 26.00	\$ 72,280
104	12-INCH AGRICULTURAL TILE	LF	1020	\$ 18.00	\$ 18,360
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	16	\$ 500.00	\$ 8,000
106	CONNECT EXISTING 12-INCH TILE	EA	1	\$ 850.00	\$ 850
107	GRANULAR PIPE FOUNDATION	CY	103.18	\$ 27.60	\$ 2,848
108	FURNISH & INSTALL WATER QUALITY INLET	EA	1	\$ 1,500.00	\$ 1,500
109	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	30	\$ 15.75	\$ 473
110	INSTALL DROP INTAKE (18-INCH)	EA	4	\$ 725.00	\$ 2,900
111	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>TOTAL</b>					<b>\$ 114,400</b>
10% UNFORSEEN					\$ 11,440
<b>SUBTOTAL</b>					<b>\$ 125,840</b>
TEMPORARY DAMAGES		AC	8.72	\$ 650.00	\$ 5,670
TELEVISIONING (POST CONSTRUCTION)		LF	3800	\$ 1.00	\$ 3,800
COUNTY ADMINISTRATION COSTS					\$ 6,292
TOPOGRAPHIC SURVEY					\$ 4,750
REPORTS, PLANS AND SPECIFICATIONS					\$ 12,584
CONSTRUCTION STAKING & ADMINISTRATION					\$ 12,584
<b>TOTAL BRANCH 9 TILE REPAIR COST</b>					<b>\$ 171,520</b>



SEPARABLE MAINTANENCE (REPAIR)

Culvert Crossing #2 (Anderson Driveway)

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 410.00	\$ 410
102	48-INCH CLASS III RCP PIPE	LF	12	\$ 253.20	\$ 3,038
103	OPEN CUT & RESTORE FIELD CROSSING	EA	1	\$ 1,100.00	\$ 1,100
104	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	30	\$ 72.50	\$ 2,175
105	REMOVE RCP CULVERT	EA	1	\$ 1,685.90	\$ 1,686
<b>TOTAL</b>					<b>\$ 8,500</b>
10% UNFORSEEN					\$ 850
<b>SUBTOTAL</b>					<b>\$ 9,350</b>
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 468
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 935
CONSTRUCTION STAKING & ADMINISTRATION					\$ 935
<b>TOTAL CULVERT CROSSING #2 (ANDERSON DRIVEWAY) REPAIR COST</b>					<b>\$ 11,688</b>

Culvert Crossing #4 (Asmus & Hallman)

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 670.00	\$ 670
102	24-INCH CLASS III RCP PIPE	LF	66	\$ 125.00	\$ 8,250
103	OPEN CUT & RESTORE FIELD CROSSING	EA	1	\$ 1,100.00	\$ 1,100
104	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	30	\$ 72.50	\$ 2,175
105	REMOVE RCP CULVERT	EA	1	\$ 1,685.90	\$ 1,686
<b>TOTAL</b>					<b>\$ 13,900</b>
10% UNFORSEEN					\$ 1,390
<b>SUBTOTAL</b>					<b>\$ 15,290</b>
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 765
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,529
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,529
<b>TOTAL CULVERT CROSSING #4 (ASMUS &amp; HALLMAN) REPAIR COST</b>					<b>\$ 19,113</b>

TOTAL REPAIR COST

Main Open Ditch	\$ 432,494
Culvert Crossing #1 (Hallman Crossing)	\$ 63,315
Main Tile	\$ 135,741
Branch 1 Tile	\$ 54,999
Branch 2 Tile	\$ 163,422
Branch 2 Fork 1 Tile	\$ 25,535
Branch 2 Fork 2 Tile	\$ 94,318
Branch 2 Fork 2 Spur 1 Tile	\$ 11,161
Branch 3 Open Ditch	\$ 53,406
Branch 5 Open Ditch	\$ 27,650
Branch 5 Tile	\$ 147,371
Branch 5 Fork 1 Tile	\$ 80,722
Branch 6 Open Ditch	\$ 27,002
Branch 6 Tile	\$ 246,609
Branch 6 (Extension) Tile	\$ -
Branch 6 Fork 1 Tile	\$ 11,867
Branch 8 Open Ditch	\$ 48,200
Branch 9 Tile	\$ 171,520
Culvert Crossing #2 (Anderson Driveway)	\$ 11,688
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,113
<b>COMPLETE REPAIR COST</b>	<b>\$ 1,826,133</b>



**SEPARABLE MAINTANENCE (REPAIR) "A" OPTION**

**Main "A" Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 6,340.00	\$ 6,340
102	TILE INVESTIGATION	HR	6	\$ 149.40	\$ 896
103	15-INCH AGRICULTURAL TILE	LF	1300	\$ 22.00	\$ 28,600
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	12	\$ 500.00	\$ 6,000
105	CONNECT EXISTING 18-INCH TILE	EA	2	\$ 1,100.00	\$ 2,200
106	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
107	GRANULAR PIPE FOUNDATION	CY	81.85	\$ 27.60	\$ 2,259
108	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 725.00	\$ 2,175
109	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
110	24-INCH CONCRETE TILE	LF	1500	\$ 55.00	\$ 82,500
<b>TOTAL</b>					<b>\$ 132,100</b>
10% UNFORSEEN					\$ 13,210
<b>SUBTOTAL</b>					<b>\$ 145,310</b>
TEMPORARY DAMAGES		AC	6.43	\$ 650.00	\$ 4,178
TELEVISIONING (POST CONSTRUCTION)		LF	2800	\$ 1.00	\$ 2,800
COUNTY ADMINISTRATION COSTS					\$ 7,266
TOPOGRAPHIC SURVEY					\$ 3,500
REPORTS, PLANS AND SPECIFICATIONS					\$ 14,531
CONSTRUCTION STAKING & ADMINISTRATION					\$ 14,531
<b>TOTAL MAIN "A" TILE REPAIR COST</b>					<b>\$ 192,116</b>

**Branch 6 "A" Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 14,000.00	\$ 14,000
102	TILE INVESTIGATION	HR	10	\$ 149.40	\$ 1,494
103	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	19	\$ 500.00	\$ 9,500
104	CONNECT EXISTING 24-INCH TILE	EA	1	\$ 1,900.00	\$ 1,900
105	CONNECT EXISTING 10-INCH TILE	EA	2	\$ 575.00	\$ 1,150
106	GRANULAR PIPE FOUNDATION	CY	146.85	\$ 27.60	\$ 4,053
107	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
108	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
109	INSTALL DROP INTAKE (18-INCH)	EA	5	\$ 725.00	\$ 3,625
110	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
111	24-INCH CONCRETE TILE	LF	4575	\$ 55.00	\$ 251,625
<b>TOTAL</b>					<b>\$ 291,800</b>
10% UNFORSEEN					\$ 29,180
<b>SUBTOTAL</b>					<b>\$ 320,980</b>
TEMPORARY DAMAGES		AC	10.50	\$ 650.00	\$ 6,827
TELEVISIONING (POST CONSTRUCTION)		LF	4575	\$ 1.00	\$ 4,575
COUNTY ADMINISTRATION COSTS					\$ 16,049
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 32,098
CONSTRUCTION STAKING & ADMINISTRATION					\$ 32,098
<b>TOTAL BRANCH 6 "A" TILE REPAIR COST</b>					<b>\$ 412,627</b>



SEPARABLE MAINTANENCE (REPAIR) "A" OPTION

TOTAL REPAIR OPTION "A" COST

Main Open Ditch	\$	432,494
Culvert Crossing #1 (Hallman Crossing)	\$	63,315
Main "A" Tile	\$	192,116
Branch 1 Tile	\$	54,999
Branch 2 Tile	\$	163,422
Branch 2 Fork 1 Tile	\$	25,535
Branch 2 Fork 2 Tile	\$	94,318
Branch 2 Fork 2 Spur 1 Tile	\$	11,161
Branch 3 Open Ditch	\$	53,406
Branch 5 Open Ditch	\$	27,650
Branch 5 Tile	\$	147,371
Branch 5 Fork 1 Tile	\$	80,722
Branch 6 Open Ditch	\$	27,002
Branch 6 "A" Tile	\$	412,627
Branch 6 (Extension) Tile	\$	-
Branch 6 Fork 1 Tile	\$	11,867
Branch 8 Open Ditch	\$	48,200
Branch 9 Tile	\$	171,520
Culvert Crossing #2 (Anderson Driveway)	\$	11,688
Culvert Crossing #4 (Asmus & Hallman)	\$	19,113
<b>COMPLETE REPAIR OPTION "A" COST</b>	<b>\$</b>	<b>2,048,526</b>



PROPOSED OPTION #1 IMPROVEMENT

Main Open Ditch Option 1

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 13,140.00	\$ 13,140
102	INSTALL 18-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	4	\$ 1,400.00	\$ 5,600
103	INSTALL 15-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,300.00	\$ 2,600
104	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,275.00	\$ 2,550
105	INSTALL 12-INCH ASI RISER ASSEMBLY W/SLOTTED HICKENBOTTOM	EA	1	\$ 1,200.00	\$ 1,200
106	INSTALL 12-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	2	\$ 1,125.00	\$ 2,250
107	INSTALL 10-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,150.00	\$ 1,150
108	INSTALL 10-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 1,075.00	\$ 1,075
109	INSTALL 8-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 850.00	\$ 850
110	INSTALL 18-INCH ASI OUTLET ASSEMBLY	EA	4	\$ 900.00	\$ 3,600
111	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 825.00	\$ 1,650
112	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	5	\$ 800.00	\$ 4,000
113	INSTALL 10-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 800.00	\$ 1,600
114	INSTALL 8-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 500.00	\$ 500
115	CLASS III RIPRAP WITH GEOTEXTILE FABRIC (FOR ASIRO)	CY	120	\$ 72.50	\$ 8,700
116	DITCH CLEANING (6' WIDE DITCH BOTTOM)	LF	28219	\$ 1.60	\$ 45,150
117	TOP SOIL STRIP & PLACE SPOILS	AC	2.4	\$ 4,212.60	\$ 10,110
118	30-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 2,161.70	\$ 4,323
119	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$ 1,450.00	\$ 4,350
120	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	13	\$ 1,250.00	\$ 16,250
121	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$ 1,100.00	\$ 3,300
122	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	5	\$ 1,050.00	\$ 5,250
123	8-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	5	\$ 800.00	\$ 4,000
124	6-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	7	\$ 600.00	\$ 4,200
125	4-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 575.00	\$ 575
126	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	3.9	\$ 750.00	\$ 2,925
127	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	21.38	\$ 1,200.00	\$ 25,656
128	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	12.96	\$ 6,750.00	\$ 87,480
129	BUFFER STRIP MOWING	AC	42.76	\$ 100.00	\$ 4,276
130	WEED SPRAYING	AC	55.72	\$ 100.00	\$ 5,572
131	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	60	\$ 72.50	\$ 4,350
132	REMOVE & REINSTALL FENCE	LF	588	\$ 6.50	\$ 3,822
133	CONSTRUCT 12-FOOT BENCH	LF	10450	\$ 1.25	\$ 13,063
<b>SUBTOTAL</b>					<b>\$ 295,118</b>
10% UNFORSEEN					\$ 29,512
<b>TOTAL</b>					<b>\$ 324,629</b>
TEMPORARY DAMAGES		AC	21.38	\$ 650.00	\$ 13,896
LAND ACQUISITION/ PERMANENT DAMAGES		AC	2.15	\$ 6,500.00	\$ 13,975
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 16,232
TOPOGRAPHIC SURVEY					\$ 26,723
REPORTS, PLANS AND SPECIFICATIONS					\$ 42,202
CONSTRUCTION STAKING & ADMINISTRATION					\$ 32,463
<b>TOTAL MAIN OPEN DITCH OPTION 1 IMPROVEMENT COST</b>					<b>\$ 470,120</b>



PROPOSED OPTION #1 IMPROVEMENT

Main East Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,270.00	\$ 1,270
102	TILE INVESTIGATION	HR	3	\$ 149.40	\$ 448
103	10-INCH AGRICULTURAL TILE	LF	1232	\$ 14.00	\$ 17,248
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	5	\$ 500.00	\$ 2,500
105	CONNECT EXISTING 15-INCH TILE	EA	1	\$ 900.00	\$ 900
106	10-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,400.00	\$ 1,400
107	GRANULAR PIPE FOUNDATION	CY	26.92	\$ 27.60	\$ 743
108	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 725.00	\$ 1,450
109	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 26,459</b>
10% UNFORSEEN					\$ 2,646
<b>TOTAL</b>					<b>\$ 29,105</b>
TEMPORARY DAMAGES		AC	2.83	\$ 650.00	\$ 1,838
TELEVISIONING (POST CONSTRUCTION)		LF	1232	\$ 1.00	\$ 1,232
COUNTY ADMINISTRATION COSTS					\$ 1,456
TOPOGRAPHIC SURVEY					\$ 1,540
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,784
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,911
<b>TOTAL MAIN EAST TILE IMPROVEMENT COST</b>					<b>\$ 41,866</b>

Main West Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,130.00	\$ 2,130
102	TILE INVESTIGATION	HR	4	\$ 149.40	\$ 598
103	15-INCH AGRICULTURAL TILE	LF	1515	\$ 22.00	\$ 33,330
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	7	\$ 500.00	\$ 3,500
105	CONNECT EXISTING 36-INCH TILE	EA	1	\$ 1,865.00	\$ 1,865
106	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
107	GRANULAR PIPE FOUNDATION	CY	39.28	\$ 27.60	\$ 1,084
108	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
109	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 44,307</b>
10% UNFORSEEN					\$ 4,431
<b>TOTAL</b>					<b>\$ 48,737</b>
TEMPORARY DAMAGES		AC	3.48	\$ 650.00	\$ 2,261
TELEVISIONING (POST CONSTRUCTION)		LF	1515	\$ 1.00	\$ 1,515
COUNTY ADMINISTRATION COSTS					\$ 2,437
TOPOGRAPHIC SURVEY					\$ 1,894
REPORTS, PLANS AND SPECIFICATIONS					\$ 6,336
CONSTRUCTION STAKING & ADMINISTRATION					\$ 4,874
<b>TOTAL MAIN WEST TILE IMPROVEMENT COST</b>					<b>\$ 68,054</b>

Branch 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 470.00	\$ 470
102	TILE INVESTIGATION	HR	1	\$ 149.40	\$ 149
103	10-INCH AGRICULTURAL TILE	LF	425	\$ 14.00	\$ 5,950
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
105	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 575.00	\$ 575
106	GRANULAR PIPE FOUNDATION	CY	9.29	\$ 27.60	\$ 256
107	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
108	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 9,626</b>
10% UNFORSEEN					\$ 963
<b>TOTAL</b>					<b>\$ 10,588</b>
TEMPORARY DAMAGES		AC	0.98	\$ 650.00	\$ 634
TELEVISIONING (POST CONSTRUCTION)		LF	425	\$ 1.00	\$ 425
COUNTY ADMINISTRATION COSTS					\$ 530
TOPOGRAPHIC SURVEY					\$ 532
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,377
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,059
<b>TOTAL BRANCH 1 TILE IMPROVEMENT COST</b>					<b>\$ 15,146</b>



PROPOSED OPTION #1 IMPROVEMENT

Branch 2 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 6,840.00	\$ 6,840
102	TILE INVESTIGATION	HR	8	\$ 149.40	\$ 1,195
103	30-INCH AGRICULTURAL TILE	LF	1400	\$ 35.00	\$ 49,000
104	24-INCH AGRICULTURAL TILE	LF	700	\$ 29.00	\$ 20,300
105	15-INCH AGRICULTURAL TILE	LF	700	\$ 22.00	\$ 15,400
106	12-INCH AGRICULTURAL TILE	LF	455	\$ 18.00	\$ 8,190
107	10-INCH AGRICULTURAL TILE	LF	665	\$ 14.00	\$ 9,310
108	8-INCH AGRICULTURAL TILE	LF	40	\$ 13.00	\$ 520
109	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	16	\$ 500.00	\$ 8,000
110	CONNECT EXISTING 15-INCH TILE	EA	2	\$ 900.00	\$ 1,800
111	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
112	8-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	2	\$ 1,250.00	\$ 2,500
113	SAND OR CLSM FILL PIPE UNDER ROAD (10-INCH)	LF	100	\$ 10.10	\$ 1,010
114	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
115	GRANULAR PIPE FOUNDATION	CY	118.63	\$ 27.60	\$ 3,274
116	FURNISH & INSTALL WATER QUALITY INLET	EA	4	\$ 1,500.00	\$ 6,000
117	INSTALL 12-INCH PERFORATED TILE	LF	120	\$ 15.75	\$ 1,890
118	INSTALL DROP INTAKE (18-INCH)	EA	7	\$ 725.00	\$ 5,075
119	CAP DROP INTAKE (18-INCH)	EA	2	\$ 500.00	\$ 1,000
<b>SUBTOTAL</b>					<b>\$ 142,600</b>
10% UNFORSEEN					\$ 14,260
<b>TOTAL</b>					<b>\$ 156,860</b>
TEMPORARY DAMAGES		AC	10.70	\$ 650.00	\$ 6,954
TELEVISIONING (POST CONSTRUCTION)		LF	3960	\$ 1.00	\$ 3,960
COUNTY ADMINISTRATION COSTS					\$ 7,844
TOPOGRAPHIC SURVEY					\$ 4,950
REPORTS, PLANS AND SPECIFICATIONS					\$ 20,392
CONSTRUCTION STAKING & ADMINISTRATION					\$ 15,687
<b>TOTAL BRANCH 2 TILE IMPROVEMENT COST</b>					<b>\$ 216,647</b>

Branch 2 Fork 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 740.00	\$ 740
102	TILE INVESTIGATION	HR	2	\$ 149.40	\$ 299
103	10-INCH AGRICULTURAL TILE	LF	577	\$ 14.00	\$ 8,078
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	3	\$ 500.00	\$ 1,500
105	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
106	GRANULAR PIPE FOUNDATION	CY	12.61	\$ 27.60	\$ 348
107	FURNISH & INSTALL WATER QUALITY INLET	EA	1	\$ 1,500.00	\$ 1,500
108	INSTALL 12-INCH PERFORATED TILE	LF	30	\$ 15.75	\$ 473
109	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 725.00	\$ 1,450
110	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 15,337</b>
10% UNFORSEEN					\$ 1,534
<b>TOTAL</b>					<b>\$ 16,871</b>
TEMPORARY DAMAGES		AC	1.32	\$ 650.00	\$ 861
TELEVISIONING (POST CONSTRUCTION)		LF	577	\$ 1.00	\$ 577
COUNTY ADMINISTRATION COSTS					\$ 844
TOPOGRAPHIC SURVEY					\$ 722
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,194
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,688
<b>TOTAL BRANCH 2 FORK 1 TILE IMPROVEMENT COST</b>					<b>\$ 23,757</b>

Branch 2 Fork 2 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 4,290.00	\$ 4,290
102	TILE INVESTIGATION	HR	6	\$ 149.40	\$ 896
103	24-INCH AGRICULTURAL TILE	LF	1900	\$ 29.00	\$ 55,100
104	12-INCH AGRICULTURAL TILE	LF	670	\$ 18.00	\$ 12,060
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$ 500.00	\$ 5,500
106	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
107	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
108	GRANULAR PIPE FOUNDATION	CY	76.91	\$ 27.60	\$ 2,123
109	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
110	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
111	INSTALL DROP INTAKE (18-INCH)	EA	5	\$ 725.00	\$ 3,625
112	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 89,335</b>
10% UNFORSEEN					\$ 8,933
<b>TOTAL</b>					<b>\$ 98,268</b>
TEMPORARY DAMAGES		AC	5.90	\$ 650.00	\$ 3,835
TELEVISIONING (POST CONSTRUCTION)		LF	2570	\$ 1.00	\$ 2,570
COUNTY ADMINISTRATION COSTS					\$ 4,914
TOPOGRAPHIC SURVEY					\$ 3,213
REPORTS, PLANS AND SPECIFICATIONS					\$ 12,775
CONSTRUCTION STAKING & ADMINISTRATION					\$ 9,827
<b>TOTAL BRANCH 2 FORK 2 TILE IMPROVEMENT COST</b>					<b>\$ 135,402</b>





PROPOSED OPTION #1 IMPROVEMENT

Branch 2 Fork 2 Spur 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 490.00	\$ 490
102	TILE INVESTIGATION	HR	1	\$ 149.40	\$ 149
103	12-INCH AGRICULTURAL TILE	LF	324	\$ 18.00	\$ 5,832
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
105	CONNECT EXISTING 12-INCH TILE	EA	1	\$ 850.00	\$ 850
106	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
107	GRANULAR PIPE FOUNDATION	CY	7.7	\$ 27.60	\$ 213
108	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
109	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 10,209</b>
10% UNFORSEEN					\$ 1,021
<b>TOTAL</b>					<b>\$ 11,230</b>
TEMPORARY DAMAGES		AC	0.74	\$ 650.00	\$ 483
TELEVISIONING (POST CONSTRUCTION)		LF	324	\$ 1.00	\$ 324
COUNTY ADMINISTRATION COSTS					\$ 562
TOPOGRAPHIC SURVEY					\$ 405
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,460
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,123
<b>TOTAL BRANCH 2 FORK 2 SPUR 1 TILE IMPROVEMENT COST</b>					<b>\$ 15,587</b>

Branch 3 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 3,330.00	\$ 3,330
102	INSTALL 24-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,700.00	\$ 3,400
103	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,275.00	\$ 1,275
104	INSTALL 24-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 1,100.00	\$ 2,200
105	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 825.00	\$ 825
106	CLASS III RIPRAP WITH GEOTEXTILE FABRIC (FOR ASIRO)	CY	60	\$ 72.50	\$ 4,350
107	DITCH WIDENING (4' WIDE DITCH BOTTOM)	LF	3065	\$ 9.45	\$ 28,964
108	TOP SOIL STRIP & PLACE SPOILS	AC	1.52	\$ 4,212.60	\$ 6,400
109	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,250.00	\$ 2,500
110	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,050.00	\$ 1,050
111	10-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 925.00	\$ 925
112	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1	\$ 750.00	\$ 750
113	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	2.33	\$ 1,200.00	\$ 2,796
114	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	1.41	\$ 6,750.00	\$ 9,518
115	BUFFER STRIP MOWING	AC	4.66	\$ 100.00	\$ 466
116	WEED SPRAYING	AC	6.07	\$ 100.00	\$ 607
<b>SUBTOTAL</b>					<b>\$ 69,356</b>
10% UNFORSEEN					\$ 6,936
<b>TOTAL</b>					<b>\$ 76,291</b>
TEMPORARY DAMAGES		AC	2.32	\$ 650.00	\$ 1,509
LAND ACQUISITION/ PERMANENT DAMAGES		AC	1.47	\$ 6,500.00	\$ 9,550
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 3,815
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 9,918
CONSTRUCTION STAKING & ADMINISTRATION					\$ 7,630
<b>TOTAL BRANCH 3 OPEN DITCH IMPROVEMENT COST</b>					<b>\$ 108,714</b>



PROPOSED OPTION #1 IMPROVEMENT

Branch 5 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,290.00	\$ 1,290
102	DITCH DEEPENING (4' WIDE DITCH BOTTOM)	LF	2300	\$ 5.24	\$ 12,058
103	30-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 2,161.70	\$ 2,162
104	18-INCH TILE OUTLET	EA	1	\$ 1,250.00	\$ 1,250
105	16.5' BUFFER STRIP SEEDING	AC	1.75	\$ 1,200.00	\$ 2,100
106	STANDARD SIDESLOPE SEEDING	AC	1.06	\$ 6,750.00	\$ 7,155
107	BUFFER STRIP MOWING	AC	3.5	\$ 100.00	\$ 350
108	WEED SPRAYING	AC	4.56	\$ 100.00	\$ 456
<b>SUBTOTAL</b>					<b>\$ 26,821</b>
10% UNFORSEEN					\$ 2,682
<b>TOTAL</b>					<b>\$ 29,503</b>
TEMPORARY DAMAGES		AC	1.74	\$ 650.00	\$ 1,133
LAND ACQUISITION/ PERMANENT DAMAGES		AC	0.26	\$ 6,500.00	\$ 1,719
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 1,476
TOPOGRAPHIC SURVEY					\$ 2,179
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,836
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,951
<b>TOTAL BRANCH 5 OPEN DITCH IMPROVEMENT COST</b>					<b>\$ 42,797</b>

Branch 5 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 4,320.00	\$ 4,320
102	TILE INVESTIGATION	HR	3	\$ 149.40	\$ 448
103	18-INCH AGRICULTURAL TILE	LF	950	\$ 26.00	\$ 24,700
104	15-INCH AGRICULTURAL TILE	LF	334	\$ 22.00	\$ 7,348
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	6	\$ 500.00	\$ 3,000
106	CONNECT EXISTING 18-INCH TILE	EA	1	\$ 1,100.00	\$ 1,100
107	CONNECT EXISTING 12-INCH TILE	EA	1	\$ 850.00	\$ 850
108	12-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,550.00	\$ 1,550
109	GRANULAR PIPE FOUNDATION	CY	35.63	\$ 27.60	\$ 983
110	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 725.00	\$ 1,450
111	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
112	30-INCH CONCRETE TILE	LF	600	\$ 73.00	\$ 43,800
<b>SUBTOTAL</b>					<b>\$ 90,050</b>
10% UNFORSEEN					\$ 9,005
<b>TOTAL</b>					<b>\$ 99,055</b>
TEMPORARY DAMAGES		AC	2.95	\$ 650.00	\$ 1,916
TELEVISIONING (POST CONSTRUCTION)		LF	1284	\$ 1.00	\$ 1,284
COUNTY ADMINISTRATION COSTS					\$ 4,953
TOPOGRAPHIC SURVEY					\$ 1,605
REPORTS, PLANS AND SPECIFICATIONS					\$ 12,878
CONSTRUCTION STAKING & ADMINISTRATION					\$ 9,906
<b>TOTAL BRANCH 5 TILE IMPROVEMENT COST</b>					<b>\$ 131,597</b>



PROPOSED OPTION #1 IMPROVEMENT

Branch 5 Fork 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 3,780.00	\$ 3,780
102	TILE INVESTIGATION	HR	6	\$ 149.40	\$ 896
103	15-INCH AGRICULTURAL TILE	LF	1900	\$ 22.00	\$ 41,800
104	10-INCH AGRICULTURAL TILE	LF	369	\$ 14.00	\$ 5,166
105	8-INCH AGRICULTURAL TILE	LF	465	\$ 13.00	\$ 6,045
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$ 500.00	\$ 5,500
107	CONNECT EXISTING 18-INCH TILE	EA	1	\$ 1,100.00	\$ 1,100
108	CONNECT EXISTING 12-INCH TILE	EA	1	\$ 850.00	\$ 850
109	CONNECT EXISTING 8-INCH TILE	EA	2	\$ 450.00	\$ 900
110	12-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,550.00	\$ 1,550
111	10-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,400.00	\$ 1,400
112	8-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,250.00	\$ 1,250
113	GRANULAR PIPE FOUNDATION	CY	66.82	\$ 27.60	\$ 1,844
114	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
115	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
116	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 725.00	\$ 2,175
117	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 78,702</b>
10% UNFORSEEN					\$ 7,870
<b>TOTAL</b>					<b>\$ 86,572</b>
TEMPORARY DAMAGES		AC	6.28	\$ 650.00	\$ 4,080
TELEVISIONS (POST CONSTRUCTION)		LF	2734	\$ 1.00	\$ 2,734
COUNTY ADMINISTRATION COSTS					\$ 4,329
TOPOGRAPHIC SURVEY					\$ 3,418
REPORTS, PLANS AND SPECIFICATIONS					\$ 11,255
CONSTRUCTION STAKING & ADMINISTRATION					\$ 8,658
<b>TOTAL BRANCH 5 FORK 1 TILE IMPROVEMENT COST</b>					<b>\$ 121,046</b>

Branch 6 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,750.00	\$ 2,750
102	INSTALL 15-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,300.00	\$ 1,300
103	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,275.00	\$ 1,275
104	INSTALL 10-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 1,075.00	\$ 1,075
105	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 825.00	\$ 825
106	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 800.00	\$ 800
107	INSTALL 10-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 800.00	\$ 800
108	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	1500	\$ 1.50	\$ 2,250
109	DITCH DEEPENING (4' WIDE DITCH BOTTOM)	LF	2142	\$ 5.24	\$ 11,230
110	TOP SOIL STRIP & PLACE SPOILS	AC	2.45	\$ 4,212.60	\$ 10,329
111	36-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 2,169.70	\$ 2,170
112	30-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 2,161.70	\$ 2,162
113	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,250.00	\$ 1,250
114	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,100.00	\$ 1,100
115	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,050.00	\$ 2,100
116	16.5' BUFFER STRIP SEEDING	AC	2.76	\$ 1,200.00	\$ 3,312
117	STANDARD SIDESLOPE SEEDING	AC	1.68	\$ 6,750.00	\$ 11,340
118	BUFFER STRIP MOWING	AC	5.52	\$ 100.00	\$ 552
119	WEED SPRAYING	AC	7.2	\$ 100.00	\$ 720
<b>SUBTOTAL</b>					<b>\$ 57,339</b>
10% UNFORSEEN					\$ 5,734
<b>TOTAL</b>					<b>\$ 63,073</b>
TEMPORARY DAMAGES		AC	1.14	\$ 650.00	\$ 739
LAND ACQUISITION/ PERMANENT DAMAGES		AC	0.86	\$ 6,500.00	\$ 5,563
TELEVISIONS (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 3,154
TOPOGRAPHIC SURVEY					\$ 3,449
REPORTS, PLANS AND SPECIFICATIONS					\$ 8,200
CONSTRUCTION STAKING & ADMINISTRATION					\$ 6,308
<b>TOTAL BRANCH 6 OPEN DITCH IMPROVEMENT COST</b>					<b>\$ 90,486</b>



PROPOSED OPTION #1 IMPROVEMENT

Branch 6 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 13,560.00	\$ 13,560
103	TILE INVESTIGATION	HR	10	\$ 149.40	\$ 1,494
104	42-INCH AGRICULTURAL TILE	LF	2350	\$ 64.50	\$ 151,575
105	36-INCH AGRICULTURAL TILE	LF	2200	\$ 38.00	\$ 83,600
106	18-INCH AGRICULTURAL TILE	LF	36	\$ 26.00	\$ 936
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	19	\$ 500.00	\$ 9,500
108	CONNECT EXISTING 24-INCH TILE	EA	2	\$ 1,900.00	\$ 3,800
109	18-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	2	\$ 2,000.00	\$ 4,000
110	GRANULAR PIPE FOUNDATION	CY	195.1	\$ 27.60	\$ 5,385
111	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
112	INSTALL 12-INCH PERFORATED TILE	LF	60	\$ 15.75	\$ 945
113	INSTALL DROP INTAKE (18-INCH)	EA	6	\$ 725.00	\$ 4,350
114	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 282,645</b>
10% UNFORSEEN					\$ 28,264
<b>TOTAL</b>					<b>\$ 310,909</b>
TEMPORARY DAMAGES		AC	15.75	\$ 650.00	\$ 10,238
TELEVISIONING (POST CONSTRUCTION)		LF	4586	\$ 1.00	\$ 4,586
COUNTY ADMINISTRATION COSTS					\$ 15,546
TOPOGRAPHIC SURVEY					\$ 5,733
REPORTS, PLANS AND SPECIFICATIONS					\$ 40,419
CONSTRUCTION STAKING & ADMINISTRATION					\$ 31,091
<b>TOTAL BRANCH 6 TILE IMPROVEMENT COST</b>					<b>\$ 418,522</b>

Branch 6 (Extension) Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 12,930.00	\$ 12,930
102	TILE INVESTIGATION	HR	11	\$ 149.40	\$ 1,643
103	36-INCH AGRICULTURAL TILE	LF	5085	\$ 38.00	\$ 193,230
104	18-INCH AGRICULTURAL TILE	LF	10	\$ 26.00	\$ 260
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	24	\$ 500.00	\$ 12,000
106	CONNECT EXISTING 15-INCH TILE	EA	1	\$ 900.00	\$ 900
107	CONNECT EXISTING 10-INCH TILE	EA	2	\$ 575.00	\$ 1,150
108	18-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 2,000.00	\$ 2,000
109	GRANULAR PIPE FOUNDATION	CY	207.45	\$ 27.60	\$ 5,726
110	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
111	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
112	INSTALL DROP INTAKE (18-INCH)	EA	7	\$ 725.00	\$ 5,075
113	CAP DROP INTAKE (18-INCH)	EA	2	\$ 500.00	\$ 1,000
114	36-INCH AGRICULTURAL TILE FULLY ENCASED	LF	760	\$ 39.00	\$ 29,640
<b>SUBTOTAL</b>					<b>\$ 269,499</b>
10% UNFORSEEN					\$ 26,950
<b>TOTAL</b>					<b>\$ 296,449</b>
TEMPORARY DAMAGES		AC	17.53	\$ 650.00	\$ 11,397
TELEVISIONING (POST CONSTRUCTION)		LF	5095	\$ 1.00	\$ 5,095
COUNTY ADMINISTRATION COSTS					\$ 14,823
TOPOGRAPHIC SURVEY					\$ 6,369
REPORTS, PLANS AND SPECIFICATIONS					\$ 38,539
CONSTRUCTION STAKING & ADMINISTRATION					\$ 29,645
<b>TOTAL BRANCH 6 (EXTENSION) TILE IMPROVEMENT COST</b>					<b>\$ 402,317</b>



PROPOSED OPTION #1 IMPROVEMENT

Branch 6 Fork 1 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 640.00	\$ 640
102	TILE INVESTIGATION	HR	1	\$ 149.40	\$ 149
103	15-INCH AGRICULTURAL TILE	LF	385	\$ 22.00	\$ 8,470
104	10-INCH AGRICULTURAL TILE	LF	9	\$ 14.00	\$ 126
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
106	10-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,400.00	\$ 1,400
107	GRANULAR PIPE FOUNDATION	CY	10.18	\$ 27.60	\$ 281
108	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 725.00	\$ 725
109	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 13,291</b>
10% UNFORSEEN					\$ 1,329
<b>TOTAL</b>					<b>\$ 14,621</b>
TEMPORARY DAMAGES		AC	0.90	\$ 650.00	\$ 588
TELEVISION (POST CONSTRUCTION)		LF	394	\$ 1.00	\$ 394
COUNTY ADMINISTRATION COSTS					\$ 732
TOPOGRAPHIC SURVEY					\$ 493
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,901
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,463
<b>TOTAL BRANCH 6 FORK 1 TILE IMPROVEMENT COST</b>					<b>\$ 20,191</b>

Branch 8 Open Ditch

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,570.00	\$ 2,570
102	INSTALL 12-INCH ASI RISER ASSEMBLY W/SLOTTED HICKENBOTTOM	EA	1	\$ 1,200.00	\$ 1,200
103	INSTALL 8-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,000.00	\$ 1,000
104	INSTALL 8-INCH ASI RISER ASSEMBLY W/STANDARD	EA	1	\$ 850.00	\$ 850
105	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 800.00	\$ 800
106	INSTALL 8-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 500.00	\$ 1,000
107	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	800	\$ 5.24	\$ 4,194
108	DITCH DEEPENING (4' WIDE DITCH BOTTOM)	LF	2540	\$ 5.24	\$ 13,316
109	TOP SOIL STRIP & PLACE SPOILS	AC	2.3330808	\$ 4,212.60	\$ 9,828
110	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,450.00	\$ 2,900
111	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 1,250.00	\$ 1,250
112	16.5' BUFFER STRIP SEEDING	AC	2.54	\$ 1,200.00	\$ 3,048
113	STANDARD SIDESLOPE SEEDING	AC	1.54	\$ 6,750.00	\$ 10,395
114	BUFFER STRIP MOWING	AC	5.08	\$ 100.00	\$ 508
<b>SUBTOTAL</b>					<b>\$ 53,522</b>
10% UNFORSEEN					\$ 5,352
<b>TOTAL</b>					<b>\$ 58,874</b>
TEMPORARY DAMAGES		AC	2.53	\$ 650.00	\$ 1,645
LAND ACQUISITION/ PERMANENT DAMAGES		AC	0.15	\$ 6,500.00	\$ 992
TELEVISION (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 2,944
TOPOGRAPHIC SURVEY					\$ 3,163
REPORTS, PLANS AND SPECIFICATIONS					\$ 7,654
CONSTRUCTION STAKING & ADMINISTRATION					\$ 5,888
<b>TOTAL BRANCH 8 OPEN DITCH IMPROVEMENT COST</b>					<b>\$ 81,159</b>



PROPOSED OPTION #1 IMPROVEMENT

Branch 9 Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 5,620.00	\$ 5,620
102	TILE INVESTIGATION	HR	7	\$ 149.40	\$ 1,046
103	24-INCH AGRICULTURAL TILE	LF	3076	\$ 29.00	\$ 89,204
104	18-INCH AGRICULTURAL TILE	LF	10	\$ 26.00	\$ 260
105	12-INCH AGRICULTURAL TILE	LF	88	\$ 18.00	\$ 1,584
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	13	\$ 500.00	\$ 6,500
107	CONNECT EXISTING 18-INCH TILE	EA	1	\$ 1,100.00	\$ 1,100
108	18-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 2,000.00	\$ 2,000
109	12-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,550.00	\$ 1,550
110	GRANULAR PIPE FOUNDATION	CY	101.11	\$ 27.60	\$ 2,791
111	FURNISH & INSTALL WATER QUALITY INLET	EA	1	\$ 1,500.00	\$ 1,500
112	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	30	\$ 15.75	\$ 473
113	INSTALL DROP INTAKE (18-INCH)	EA	4	\$ 725.00	\$ 2,900
114	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 117,027</b>
10% UNFORSEEN					\$ 11,703
<b>TOTAL</b>					<b>\$ 128,730</b>
TEMPORARY DAMAGES		AC	7.29	\$ 650.00	\$ 4,736
TELEVISIONING (POST CONSTRUCTION)		LF	3174	\$ 1.00	\$ 3,174
COUNTY ADMINISTRATION COSTS					\$ 6,437
TOPOGRAPHIC SURVEY					\$ 3,968
REPORTS, PLANS AND SPECIFICATIONS					\$ 16,735
CONSTRUCTION STAKING & ADMINISTRATION					\$ 12,873
<b>TOTAL BRANCH 9 TILE IMPROVEMENT COST</b>					<b>\$ 176,653</b>

Culvert Crossing #1 (Hallman Crossing)

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 2,240.00	\$ 2,240
102	6-FOOT x 5-FOOT RC BOX CULVERT	LF	60	\$ 675.00	\$ 40,500
103	OPEN CUT & RESTORE FIELD CROSSING	EA	1	\$ 1,100.00	\$ 1,100
104	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	30	\$ 72.50	\$ 2,175
105	REMOVE CMP CULVERT	EA	1	\$ 623.40	\$ 623
<b>SUBTOTAL</b>					<b>\$ 46,638</b>
10% UNFORSEEN					\$ 4,664
<b>TOTAL</b>					<b>\$ 51,302</b>
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 2,566
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 6,670
CONSTRUCTION STAKING & ADMINISTRATION					\$ 5,131
<b>TOTAL CULVERT CROSSING #1 (HALLMAN CROSSING) IMPROVEMENT COST</b>					<b>\$ 65,669</b>



**PROPOSED OPTION #1 IMPROVEMENT**

**Culvert Crossing #2 (Anderson Driveway)**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 590.00	\$ 590
102	48-INCH CLASS III RCP PIPE	LF	12	\$ 253.20	\$ 3,038
103	OPEN CUT & RESTORE PAVED ROADWAY (MATCH EXISTING SECTION)	EA	1	\$ 3,500.00	\$ 3,500
104	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	30	\$ 72.50	\$ 2,175
105	REMOVE CMP CULVERT	EA	1	\$ 623.40	\$ 623
106	REMOVE & REINSTALL RCP CULVERT	EA	1	\$ 2,300.00	\$ 2,300
<b>SUBTOTAL</b>					<b>\$ 12,227</b>
10% UNFORSEEN					\$ 1,223
<b>TOTAL</b>					<b>\$ 13,449</b>
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
TELEVISIONS (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 673
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,749
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,345
<b>TOTAL CULVERT CROSSING #2 (ANDERSON DRIVEWAY) IMPROVEMENT COST</b>					<b>\$ 17,216</b>

**Culvert Crossing #4 (Asmus & Hallman)**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 670.00	\$ 670
103	24-INCH CLASS III RCP PIPE	LF	66	\$ 125.00	\$ 8,250
104	OPEN CUT & RESTORE FIELD CROSSING	EA	1	\$ 1,100.00	\$ 1,100
105	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	30	\$ 72.50	\$ 2,175
106	REMOVE RCP CULVERT	EA	1	\$ 1,685.90	\$ 1,686
<b>SUBTOTAL</b>					<b>\$ 13,881</b>
10% UNFORSEEN					\$ 1,388
<b>TOTAL</b>					<b>\$ 15,269</b>
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
TELEVISIONS (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 764
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,985
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,527
<b>TOTAL CULVERT CROSSING #4 (ASMUS &amp; HALLMAN) IMPROVEMENT COST</b>					<b>\$ 19,545</b>

**Branch 6 Option 1 Crossing**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,030.00	\$ 1,030
102	42-INCH CLASS III RCP PIPE	LF	24	\$ 250.00	\$ 6,000
103	24-INCH CLASS III RCP PIPE	LF	42	\$ 125.00	\$ 5,250
104	CONSTRUCT FIELD CROSSING	EA	1	\$ 1,500.00	\$ 1,500
105	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	105	\$ 72.50	\$ 7,613
<b>SUBTOTAL</b>					<b>\$ 21,393</b>
10% UNFORSEEN					\$ 2,139
<b>TOTAL</b>					<b>\$ 23,532</b>
TEMPORARY DAMAGES		AC	0.10	\$ 650.00	\$ 65
TELEVISIONS (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 1,177
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,060
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,354
<b>TOTAL BRANCH 6 OPTION 1 CROSSING IMPROVEMENT COST</b>					<b>\$ 30,188</b>



PROPOSED OPTION #1 IMPROVEMENT

TOTAL IMPROVEMENT OPTION 1 COST

Main Open Ditch Option 1	\$	470,120
Main East Tile	\$	41,866
Main West Tile	\$	68,054
Branch 1 Tile	\$	15,146
Branch 2 Tile	\$	216,647
Branch 2 Fork 1 Tile	\$	23,757
Branch 2 Fork 2 Tile	\$	135,402
Branch 2 Fork 2 Spur 1 Tile	\$	15,587
Branch 3 Open Ditch	\$	108,714
Branch 5 Open Ditch	\$	42,797
Branch 5 Tile	\$	131,597
Branch 5 Fork 1 Tile	\$	121,046
Branch 6 Open Ditch	\$	90,486
Branch 6 Tile	\$	418,522
Branch 6 (Extension) Tile	\$	402,317
Branch 6 Fork 1 Tile	\$	20,191
Branch 8 Open Ditch	\$	81,159
Branch 9 Tile	\$	176,653
Culvert Crossing #1 (Hallman Crossing)	\$	65,669
Culvert Crossing #2 (Anderson Driveway)	\$	17,216
Culvert Crossing #4 (Asmus & Hallman)	\$	19,545
Branch 6 Option 1 Crossing	\$	30,188
<b>COMPLETE IMPROVEMENT OPTION 1 COST</b>		<b>\$ 2,712,680</b>





PROPOSED OPTION #1A IMPROVEMENT

Branch 2 "A" Tile

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 10,440.00	\$ 10,440
102	TILE INVESTIGATION	HR	8	\$ 149.40	\$ 1,195
103	15-INCH AGRICULTURAL TILE	LF	700	\$ 22.00	\$ 15,400
104	12-INCH AGRICULTURAL TILE	LF	455	\$ 18.00	\$ 8,190
105	10-INCH AGRICULTURAL TILE	LF	665	\$ 14.00	\$ 9,310
106	8-INCH AGRICULTURAL TILE	LF	40	\$ 13.00	\$ 520
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	16	\$ 500.00	\$ 8,000
108	CONNECT EXISTING 15-INCH TILE	EA	2	\$ 900.00	\$ 1,800
109	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
110	8-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	2	\$ 1,250.00	\$ 2,500
111	SAND OR CLSM FILL PIPE UNDER ROAD (10-INCH)	LF	100	\$ 10.10	\$ 1,010
112	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
113	GRANULAR PIPE FOUNDATION	CY	118.63	\$ 27.60	\$ 3,274
114	FURNISH & INSTALL WATER QUALITY INLET	EA	4	\$ 1,500.00	\$ 6,000
115	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	120	\$ 15.75	\$ 1,890
116	INSTALL DROP INTAKE (18-INCH)	EA	7	\$ 725.00	\$ 5,075
117	CAP DROP INTAKE (18-INCH)	EA	2	\$ 500.00	\$ 1,000
118	30-INCH CONCRETE TILE	LF	1400	\$ 73.00	\$ 102,200
119	24-INCH CONCRETE TILE	LF	700	\$ 55.00	\$ 38,500
<b>SUBTOTAL</b>					<b>\$ 217,600</b>
10% UNFORSEEN					\$ 21,760
<b>TOTAL</b>					<b>\$ 239,360</b>
TEMPORARY DAMAGES		AC	10.70	\$ 650.00	\$ 6,954
TELEVISIONING (POST CONSTRUCTION)		LF	3960	\$ 1.00	\$ 3,960
COUNTY ADMINISTRATION COSTS					\$ 11,969
TOPOGRAPHIC SURVEY					\$ 2,325
REPORTS, PLANS AND SPECIFICATIONS					\$ 31,117
CONSTRUCTION STAKING & ADMINISTRATION					\$ 23,937
<b>TOTAL BRANCH 2 "A" TILE IMPROVEMENT COST</b>					<b>\$ 319,622</b>



**PROPOSED OPTION #1A IMPROVEMENT**

**Branch 2 Fork 2 "A" Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 6,780.00	\$ 6,780
102	TILE INVESTIGATION	HR	6	\$ 149.40	\$ 896
103	12-INCH AGRICULTURAL TILE	LF	670	\$ 18.00	\$ 12,060
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$ 500.00	\$ 5,500
105	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 450.00	\$ 450
106	SAND OR CLSM FILL PIPE UNDER ROAD (8-INCH)	LF	95	\$ 8.90	\$ 846
107	GRANULAR PIPE FOUNDATION	CY	76.91	\$ 27.60	\$ 2,123
108	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
109	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
110	INSTALL DROP INTAKE (18-INCH)	EA	5	\$ 725.00	\$ 3,625
111	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
112	24-INCH CONCRETE TILE	LF	1900	\$ 55.00	\$ 104,500
<b>SUBTOTAL</b>					<b>\$ 141,225</b>
10% UNFORSEEN					\$ 14,122
<b>TOTAL</b>					<b>\$ 155,347</b>
TEMPORARY DAMAGES		AC	5.90	\$ 650.00	\$ 3,835
TELEVISIONING (POST CONSTRUCTION)		LF	2570	\$ 1.00	\$ 2,570
COUNTY ADMINISTRATION COSTS					\$ 7,768
TOPOGRAPHIC SURVEY					\$ 838
REPORTS, PLANS AND SPECIFICATIONS					\$ 20,196
CONSTRUCTION STAKING & ADMINISTRATION					\$ 15,535
<b>TOTAL BRANCH 2 FORK 2 "A" TILE IMPROVEMENT COST</b>					<b>\$ 206,089</b>



**PROPOSED OPTION #1A IMPROVEMENT**

**Branch 6 "A" Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 21,930.00	\$ 21,930
102	0.00	0.00	0	\$ -	\$ -
103	TILE INVESTIGATION	HR	10	\$ 149.40	\$ 1,494
104	18-INCH AGRICULTURAL TILE	LF	36	\$ 26.00	\$ 936
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	19	\$ 500.00	\$ 9,500
106	CONNECT EXISTING 24-INCH TILE	EA	2	\$ 1,900.00	\$ 3,800
107	18-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	2	\$ 2,000.00	\$ 4,000
108	GRANULAR PIPE FOUNDATION	CY	195.1	\$ 27.60	\$ 5,385
109	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
110	INSTALL 12-INCH PERFORATED TILE	LF	60	\$ 15.75	\$ 945
111	INSTALL DROP INTAKE (18-INCH)	EA	6	\$ 725.00	\$ 4,350
112	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
113	36-INCH CONCRETE TILE	LF	2200	\$ 82.00	\$ 180,400
114	42-INCH CONCRETE TILE	LF	2350	\$ 94.00	\$ 220,900
<b>SUBTOTAL</b>					<b>\$ 457,140</b>
10% UNFORSEEN					\$ 45,714
<b>TOTAL</b>					<b>\$ 502,854</b>
TEMPORARY DAMAGES		AC	15.75	\$ 650.00	\$ 10,238
TELEVISIONING (POST CONSTRUCTION)		LF	4586	\$ 1.00	\$ 4,586
COUNTY ADMINISTRATION COSTS					\$ 25,143
TOPOGRAPHIC SURVEY					\$ 45
REPORTS, PLANS AND SPECIFICATIONS					\$ 65,372
CONSTRUCTION STAKING & ADMINISTRATION					\$ 50,286
<b>TOTAL BRANCH 6 "A" TILE IMPROVEMENT COST</b>					<b>\$ 658,524</b>

**Branch 6 (Extension) "A" Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 25,570.00	\$ 25,570
102	TILE INVESTIGATION	HR	12	\$ 149.40	\$ 1,793
103	18-INCH AGRICULTURAL TILE	LF	10	\$ 26.00	\$ 260
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	24	\$ 500.00	\$ 12,000
105	CONNECT EXISTING 15-INCH TILE	EA	1	\$ 900.00	\$ 900
106	CONNECT EXISTING 10-INCH TILE	EA	2	\$ 575.00	\$ 1,150
107	18-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 2,000.00	\$ 2,000
108	GRANULAR PIPE FOUNDATION	CY	0.28	\$ 27.60	\$ 8
109	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
110	INSTALL 12-INCH PERFORATED TILE (WATER QUALITY INLET)	LF	60	\$ 15.75	\$ 945
111	INSTALL DROP INTAKE (18-INCH)	EA	7	\$ 725.00	\$ 5,075
112	CAP DROP INTAKE (18-INCH)	EA	2	\$ 500.00	\$ 1,000
113	36-INCH CONCRETE TILE	LF	5845	\$ 82.00	\$ 479,290
<b>SUBTOTAL</b>					<b>\$ 532,991</b>
TEMPORARY DAMAGES		AC	0.02	\$ 650.00	\$ 15
TELEVISIONING (POST CONSTRUCTION)		LF	10	\$ 1.00	\$ 10
COUNTY ADMINISTRATION COSTS					\$ 29,315
TOPOGRAPHIC SURVEY					\$ 13
REPORTS, PLANS AND SPECIFICATIONS					\$ 76,218
CONSTRUCTION STAKING & ADMINISTRATION					\$ 58,629
<b>TOTAL BRANCH 6 (EXTENSION) "A" TILE IMPROVEMENT COST</b>					<b>\$ 750,490</b>



**PROPOSED OPTION #1A IMPROVEMENT**

**Branch 9 "A" Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 9,210.00	\$ 9,210
102	TILE INVESTIGATION	HR	7	\$ 149.40	\$ 1,046
103	18-INCH AGRICULTURAL TILE	LF	10	\$ 26.00	\$ 260
104	12-INCH AGRICULTURAL TILE	LF	88	\$ 18.00	\$ 1,584
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	1	\$ 500.00	\$ 500
106	CONNECT EXISTING 18-INCH TILE	EA	1	\$ 1,100.00	\$ 1,100
107	18-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 2,000.00	\$ 2,000
108	12-INCH CROSS-CONNECT W/40 LF OF SPECIFIED PIPE	EA	1	\$ 1,550.00	\$ 1,550
109	GRANULAR PIPE FOUNDATION	CY	2.38	\$ 27.60	\$ 66
110	FURNISH & INSTALL WATER QUALITY INLET	EA	1	\$ 1,500.00	\$ 1,500
111	INSTALL 12-INCH PERFORATED TILE	LF	30	\$ 15.75	\$ 473
112	INSTALL DROP INTAKE (18-INCH)	EA	4	\$ 725.00	\$ 2,900
113	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
114	24-INCH CONCRETE TILE	LF	3076	\$ 55.00	\$ 169,180
<b>SUBTOTAL</b>					<b>\$ 191,868</b>
10% UNFORSEEN					\$ 19,187
TELEVISIONING (POST CONSTRUCTION)		LF	98	\$ 1.00	\$ 98
COUNTY ADMINISTRATION COSTS					\$ 10,553
TOPOGRAPHIC SURVEY					\$ 123
REPORTS, PLANS AND SPECIFICATIONS					\$ 27,438
CONSTRUCTION STAKING & ADMINISTRATION					\$ 21,106
<b>TOTAL BRANCH 9 "A" TILE IMPROVEMENT COST</b>					<b>\$ 270,519</b>

**TOTAL IMPROVEMENT OPTION 1A COST**

Main Open Ditch Option 1	\$ 470,120
Main East Tile	\$ 41,866
Main West Tile	\$ 68,054
Branch 1 Tile	\$ 15,146
Branch 2 "A" Tile	\$ 319,622
Branch 2 Fork 1 Tile	\$ 23,757
Branch 2 Fork 2 "A" Tile	\$ 206,089
Branch 2 Fork 2 Spur 1 Tile	\$ 15,587
Branch 3 Open Ditch	\$ 108,714
Branch 5 Open Ditch	\$ 42,797
Branch 5 Tile	\$ 131,597
Branch 5 Fork 1 Tile	\$ 121,046
Branch 6 Open Ditch	\$ 90,486
Branch 6 "A" Tile	\$ 658,524
Branch 6 (Extension) "A" Tile	\$ 750,490
Branch 6 Fork 1 Tile	\$ 20,191
Branch 8 Open Ditch	\$ 81,159
Branch 9 "A" Tile	\$ 270,519
Culvert Crossing #1 (Hallman Crossing)	\$ 65,669
Culvert Crossing #2 (Anderson Driveway)	\$ 17,216
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,545
Branch 6 Option 1 Crossing	\$ 30,188
<b>COMPLETE IMPROVEMENT OPTION 1A COST</b>	<b>\$ 3,568,383</b>



PROPOSED OPTION #2 IMPROVEMENT

Main Open Ditch Option 2

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 16,700.00	\$ 16,700
102	INSTALL 18-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	4	\$ 1,400.00	\$ 5,600
103	INSTALL 15-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,300.00	\$ 2,600
104	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	2	\$ 1,275.00	\$ 2,550
105	INSTALL 12-INCH ASI RISER ASSEMBLY W/SLOTTED HICKENBOTTOM	EA	1	\$ 1,200.00	\$ 1,200
106	INSTALL 12-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	2	\$ 1,125.00	\$ 2,250
107	INSTALL 10-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	1	\$ 1,150.00	\$ 1,150
108	INSTALL 10-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 1,075.00	\$ 1,075
109	INSTALL 8-INCH ASI RISER ASSEMBLY W/STANDARD HICKENBOTTOM	EA	1	\$ 850.00	\$ 850
110	INSTALL 18-INCH ASI OUTLET ASSEMBLY	EA	4	\$ 900.00	\$ 3,600
111	INSTALL 15-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 825.00	\$ 1,650
112	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	5	\$ 800.00	\$ 4,000
113	INSTALL 10-INCH ASI OUTLET ASSEMBLY	EA	2	\$ 800.00	\$ 1,600
114	INSTALL 8-INCH ASI OUTLET ASSEMBLY	EA	1	\$ 500.00	\$ 500
115	CLASS III RIPRAP WITH GEOTEXTILE FABRIC (FOR ASIRO)	CY	120	\$ 72.50	\$ 8,700
116	DITCH CLEANING (6' WIDE DITCH BOTTOM)	LF	21809	\$ 1.60	\$ 34,894
117	DITCH WIDENING (8' WIDE DITCH BOTTOM)	LF	6410	\$ 9.27	\$ 59,393
118	TOP SOIL STRIP & PLACE SPOILS	AC	8.83	\$ 4,212.60	\$ 37,197
119	30-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 2,161.70	\$ 4,323
120	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$ 1,450.00	\$ 4,350
121	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	13	\$ 1,250.00	\$ 16,250
122	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$ 1,100.00	\$ 3,300
123	12-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	5	\$ 1,050.00	\$ 5,250
124	8-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	5	\$ 800.00	\$ 4,000
125	6-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	7	\$ 600.00	\$ 4,200
126	4-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$ 575.00	\$ 575
127	ARMOR TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	3.9	\$ 750.00	\$ 2,925
128	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	21.38	\$ 1,200.00	\$ 25,656
129	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	12.96	\$ 6,750.00	\$ 87,480
130	BUFFER STRIP MOWING	AC	42.76	\$ 100.00	\$ 4,276
131	WEED SPRAYING	AC	55.72	\$ 100.00	\$ 5,572
132	REMOVE & REINSTALL FENCE	LF	588	\$ 6.50	\$ 3,822
133	CONSTRUCT 12-FOOT BENCH	LF	10450	\$ 1.25	\$ 13,063
<b>SUBTOTAL</b>					<b>\$ 370,551</b>
10% UNFORSEEN					\$ 37,055
<b>TOTAL</b>					<b>\$ 407,606</b>
TEMPORARY DAMAGES		AC	16.52	\$ 650.00	\$ 10,739
LAND ACQUISITION/ PERMANENT DAMAGES		AC	2.35	\$ 6,500.00	\$ 15,276
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 20,381
TOPOGRAPHIC SURVEY					\$ 26,723
REPORTS, PLANS AND SPECIFICATIONS					\$ 52,989
CONSTRUCTION STAKING & ADMINISTRATION					\$ 40,761
<b>TOTAL MAIN OPEN DITCH OPTION 2 IMPROVEMENT COST</b>					<b>\$ 574,476</b>



**PROPOSED OPTION #2 IMPROVEMENT**

**Main Ditch Option 2 Culvert Crossing**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 950.00	\$ 950
102	42-INCH CLASS III RCP PIPE	LF	36	\$ 250.00	\$ 9,000
103	CONSTRUCT FIELD CROSSING	EA	1	\$ 1,500.00	\$ 1,500
104	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	105	\$ 72.50	\$ 7,613
105	REMOVE CMP CULVERT	EA	1	\$ 623.40	\$ 623
<b>SUBTOTAL</b>					<b>\$ 19,686</b>
10% UNFORSEEN					\$ 1,969
<b>TOTAL</b>					<b>\$ 21,654</b>
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 1,083
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,816
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,166
<b>TOTAL MAIN DITCH OPTION 2 CULVERT CROSSING IMPROVEMENT COST</b>					<b>\$ 27,719</b>

**Storage Basin Option 2**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 15,000.00	\$ 15,000
102	POND COMMON EXCAVATION (P) (EV)	CY	60111	\$ 3.50	\$ 210,389
103	TOP SOIL STRIP & PLACE SPOILS	AC	9.31	\$ 4,212.60	\$ 39,239
104	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	0.22	\$ 1,200.00	\$ 264
105	STANDARD SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 8 MULCH)	AC	1.04	\$ 6,750.00	\$ 7,049
106	STANDARD POND BOTTOM SEEDING (SEED MIX: 33-261 W/ TYPE 7 (BFM) MULCH)	AC	5.53	\$ 7,250.00	\$ 40,077
107	BUFFER STRIP MOWING	AC	0.44	\$ 100.00	\$ 44
108	WEED SPRAYING	AC	7.0122819	\$ 100.00	\$ 701
<b>SUBTOTAL</b>					<b>\$ 312,763</b>
10% UNFORSEEN					\$ 31,276
<b>TOTAL</b>					<b>\$ 344,039</b>
TEMPORARY DAMAGES		AC	5.00	\$ 650.00	\$ 3,250
LAND ACQUISITION/ PERMANENT DAMAGES		AC	5.00	\$ 6,500.00	\$ 32,500
TELEVISIONING (POST CONSTRUCTION)		LF	0	\$ 1.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ 17,202
TOPOGRAPHIC SURVEY					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ 44,726
CONSTRUCTION STAKING & ADMINISTRATION					\$ 34,404
<b>TOTAL STORAGE BASIN OPTION 2 IMPROVEMENT COST</b>					<b>\$ 476,121</b>

**TOTAL IMPROVEMENT OPTION 2 COST**

<b>Main Open Ditch Option 2</b>	<b>\$ 574,476</b>
Main East Tile	\$ 41,866
Main West Tile	\$ 68,054
Branch 1 Tile	\$ 15,146
Branch 2 Tile	\$ 216,647
Branch 2 Fork 1 Tile	\$ 23,757
Branch 2 Fork 2 Tile	\$ 135,402
Branch 2 Fork 2 Spur 1 Tile	\$ 15,587
Branch 3 Open Ditch	\$ 108,714
Branch 5 Open Ditch	\$ 42,797
Branch 5 Tile	\$ 131,597
Branch 5 Fork 1 Tile	\$ 121,046
Branch 6 Open Ditch	\$ 90,486
Branch 6 Tile	\$ 418,522
Branch 6 (Extension) Tile	\$ 402,317
Branch 6 Fork 1 Tile	\$ 20,191
Branch 8 Open Ditch	\$ 81,159
Branch 9 Tile	\$ 176,653
Culvert Crossing #1 (Hallman Crossing)	\$ 65,669
Culvert Crossing #2 (Anderson Driveway)	\$ 17,216
Culvert Crossing #4 (Asmus & Hallman)	\$ 19,545
Main Ditch Option 2 Culvert Crossing	\$ 27,719
Storage Basin Option 2	\$ 476,121
<b>COMPLETE IMPROVEMENT OPTION 2 COST</b>	<b>\$ 3,290,689</b>



**PROPOSED OPTION #2 IMPROVEMENT**

**TOTAL IMPROVEMENT OPTION 2A COST**

Main Open Ditch Option 2	\$	574,476
Main East Tile	\$	41,866
Main West Tile	\$	68,054
Branch 1 Tile	\$	15,146
Branch 2 "A" Tile	\$	319,622
Branch 2 Fork 1 Tile	\$	23,757
Branch 2 Fork 2 "A" Tile	\$	206,089
Branch 2 Fork 2 Spur 1 Tile	\$	15,587
Branch 3 Open Ditch	\$	108,714
Branch 5 Open Ditch	\$	42,797
Branch 5 Tile	\$	131,597
Branch 5 Fork 1 Tile	\$	121,046
Branch 6 Open Ditch	\$	90,486
Branch 6 "A" Tile	\$	658,524
Branch 6 (Extension) "A" Tile	\$	750,490
Branch 6 Fork 1 Tile	\$	20,191
Branch 8 Open Ditch	\$	81,159
Branch 9 "A" Tile	\$	270,519
Culvert Crossing #1 (Hallman Crossing)	\$	65,669
Culvert Crossing #2 (Anderson Driveway)	\$	17,216
Culvert Crossing #4 (Asmus & Hallman)	\$	19,545
Main Ditch Option 2 Culvert Crossing	\$	27,719
Storage Basin Option 2	\$	476,121
<b>COMPLETE IMPROVEMENT OPTION 2A COST</b>		<b>\$ 4,146,392</b>

**STEVENS COUNTY**  
**COUNTY DITCH No. 25**  
**January 4, 2021**



**ROAD CROSSING SUMMARY**

Crossing	Road Authority	Repair Cost With Road	Repair Cost Without Road	Improvement Cost	Road Authority Cost (Difference of Repair Cost With Road and Repair Cost Without Road)	Damages Paid To Road Authority (Difference of Improvement Cost and Road Authority Cost)
<b>Main Open Ditch</b>						
270th St	BAKER TOWNSHIP	\$ 14,384	\$ -	\$ 19,959	\$ 14,384	\$ 5,574
<b>Branch 2 Tile</b>						
CSAH 8	STEVENS COUNTY	\$ 29,380	\$ 3,384	\$ 29,380	\$ 25,996	\$ 3,384
CSAH 13	STEVENS COUNTY	\$ 27,991	\$ 3,191	\$ 27,991	\$ 24,800	\$ 3,191
<b>Branch 2 Fork 2 Tile</b>						
CSAH 8	STEVENS COUNTY	\$ 27,991	\$ 3,191	\$ 27,991	\$ 24,800	\$ 3,191
<b>Branch 5 Fork 1 Tile</b>						
610th Ave	BAKER TOWNSHIP	\$ 3,000	\$ 2,392	\$ 3,650	\$ 608	\$ 3,042
<b>Branch 5 Fork 2 Tile</b>						
CSAH 66	STEVENS COUNTY	\$ -	\$ -	\$ 3,727	\$ -	\$ 3,727
<b>Branch 6 Tile</b>						
CSAH 66	BAKER TOWNSHIP	\$ 4,235	\$ 3,327	\$ 6,798	\$ 908	\$ 5,889
<b>Branch 6 (Extension) Tile</b>						
570th Ave	BAKER TOWNSHIP	\$ -	\$ -	\$ 5,448	\$ -	\$ 5,448
<b>Branch 9 Tile</b>						
240th St	BAKER TOWNSHIP	\$ 4,356	\$ 3,470	\$ 4,554	\$ 886	\$ 3,668
<b>TOTAL</b>		\$ 111,337	\$ 18,955	\$ 129,497	\$ 92,382	\$ 37,115
<b>STATE ROAD AUTHORITY TOTAL</b>		\$ -	\$ -	\$ -	\$ -	\$ -
<b>STEVENS COUNTY ROAD AUTHORITY TOTAL</b>		\$ 85,362	\$ 9,766	\$ 89,089	\$ 75,596	\$ 13,493
<b>BAKER TOWNSHIP ROAD AUTHORITY TOTAL</b>		\$ 25,975	\$ 9,189	\$ 40,408	\$ 16,786	\$ 23,622





ROAD CROSSINGS

MAIN OPEN DITCH REPAIR COST - 270TH ST

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 500.00	\$ 500
102	48-INCH CLASS III RCP PIPE	LF	24	\$ 253.20	\$ 6,077
103	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
104	REMOVE & REINSTALL RCP CULVERT	EA	1	\$ 2,300.00	\$ 2,300
<b>TOTAL</b>					<b>\$ 10,077</b>
10% CONTINGENCY					\$ 1,008
<b>SUBTOTAL</b>					<b>\$ 11,084</b>
COUNTY ADMINISTRATION COSTS					\$ 600
REPORTS, PLANS AND SPECIFICATIONS					\$ 1,500
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,200
<b>ESTIMATED MAIN OPEN DITCH REPAIR COST - 270TH ST</b>					<b>\$ 14,384</b>

MAIN OPEN DITCH IMPROVEMENT COST - 270TH ST

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 700.00	\$ 700
202	48-INCH CLASS III RCP PIPE	LF	24	\$ 253.20	\$ 6,077
203	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
204	48-INCH CLASS III RCP PIPE	LF	24	\$ 253.20	\$ 6,077
<b>TOTAL</b>					<b>\$ 14,054</b>
10% CONTINGENCY					\$ 1,405
<b>SUBTOTAL</b>					<b>\$ 15,459</b>
COUNTY ADMINISTRATION COSTS					\$ 800
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 1,600
<b>ESTIMATED MAIN OPEN DITCH IMPROVEMENT COST - 270TH ST</b>					<b>\$ 19,959</b>



ROAD CROSSINGS

BRANCH 2 TILE REPAIR COST WITH ROAD - CSAH 8

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
102	BORE 10-INCH TILE	LF	100	\$ 198.00	\$ 19,800
<b>TOTAL</b>					<b>\$ 20,800</b>
10% CONTINGENCY					\$ 2,080
<b>SUBTOTAL</b>					<b>\$ 22,880</b>
COUNTY ADMINISTRATION COSTS					\$ 1,200
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,000
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,300
<b>ESTIMATED BRANCH 2 TILE REPAIR COST WITH ROAD - CSAH 8</b>					<b>\$ 29,380</b>

BRANCH 2 TILE REPAIR COST WITHOUT ROAD - CSAH 8

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 200.00	\$ 200
202	10-INCH AGRICULTURAL TILE	LF	100	\$ 14.00	\$ 1,400
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
<b>TOTAL</b>					<b>\$ 2,600</b>
10% CONTINGENCY					\$ 260
<b>SUBTOTAL</b>					<b>\$ 2,860</b>
TEMPORARY DAMAGES		AC	0.34	\$ 650.00	\$ 224
COUNTY ADMINISTRATION COSTS					\$ 100
REPORTS, PLANS AND SPECIFICATIONS					\$ 100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 100
<b>ESTIMATED BRANCH 2 TILE REPAIR COST WITHOUT ROAD - CSAH 8</b>					<b>\$ 3,384</b>

BRANCH 2 TILE IMPROVEMENT COST - CSAH 8

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
302	BORE 12-INCH TILE	LF	100	\$ 198.00	\$ 19,800
<b>TOTAL</b>					<b>\$ 20,800</b>
10% CONTINGENCY					\$ 2,080
<b>SUBTOTAL</b>					<b>\$ 22,880</b>
COUNTY ADMINISTRATION COSTS					\$ 1,200
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,000
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,300
<b>ESTIMATED BRANCH 2 TILE IMPROVEMENT COST - CSAH 8</b>					<b>\$ 29,380</b>



ROAD CROSSINGS

BRANCH 2 TILE REPAIR COST WITH ROAD - CSAH 13

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
102	BORE 8-INCH TILE	LF	95	\$ 198.00	\$ 18,810
<b>TOTAL</b>					<b>\$ 19,810</b>
10% CONTINGENCY					\$ 1,981
<b>SUBTOTAL</b>					<b>\$ 21,791</b>
COUNTY ADMINISTRATION COSTS					\$ 1,100
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,900
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,200
<b>ESTIMATED BRANCH 2 TILE REPAIR COST WITH ROAD - CSAH 13</b>					<b>\$ 27,991</b>

BRANCH 2 TILE REPAIR COST WITHOUT ROAD - CSAH 13

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 200.00	\$ 200
202	8-INCH AGRICULTURAL TILE	LF	95	\$ 13.00	\$ 1,235
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
<b>TOTAL</b>					<b>\$ 2,435</b>
10% CONTINGENCY					\$ 244
<b>SUBTOTAL</b>					<b>\$ 2,679</b>
TEMPORARY DAMAGES		AC	0.33	\$ 650.00	\$ 213
COUNTY ADMINISTRATION COSTS					\$ 100
REPORTS, PLANS AND SPECIFICATIONS					\$ 100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 100
<b>ESTIMATED BRANCH 2 TILE REPAIR COST WITHOUT ROAD - CSAH 13</b>					<b>\$ 3,191</b>

BRANCH 2 TILE IMPROVEMENT COST - CSAH 13

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
302	BORE 10-INCH TILE	LF	95	\$ 198.00	\$ 18,810
<b>TOTAL</b>					<b>\$ 19,810</b>
10% CONTINGENCY					\$ 1,981
<b>SUBTOTAL</b>					<b>\$ 21,791</b>
COUNTY ADMINISTRATION COSTS					\$ 1,100
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,900
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,200
<b>ESTIMATED BRANCH 2 TILE IMPROVEMENT COST - CSAH 13</b>					<b>\$ 27,991</b>



ROAD CROSSINGS

BRANCH 2 FORK 2 TILE REPAIR COST WITH ROAD - CSAH 8

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
102	BORE 8-INCH TILE	LF	95	\$ 198.00	\$ 18,810
<b>TOTAL</b>					<b>\$ 19,810</b>
10% CONTINGENCY					\$ 1,981
<b>SUBTOTAL</b>					<b>\$ 21,791</b>
COUNTY ADMINISTRATION COSTS					\$ 1,100
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,900
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,200
<b>ESTIMATED BRANCH 2 FORK 2 TILE REPAIR COST WITH ROAD - CSAH 8</b>					<b>\$ 27,991</b>

BRANCH 2 FORK 2 TILE REPAIR COST WITHOUT ROAD - CSAH 8

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 200.00	\$ 200
202	8-INCH AGRICULTURAL TILE	LF	95	\$ 13.00	\$ 1,235
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
<b>TOTAL</b>					<b>\$ 2,435</b>
10% CONTINGENCY					\$ 244
<b>SUBTOTAL</b>					<b>\$ 2,679</b>
TEMPORARY DAMAGES		AC	0.33	\$ 650.00	\$ 213
COUNTY ADMINISTRATION COSTS					\$ 100
REPORTS, PLANS AND SPECIFICATIONS					\$ 100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 100
<b>ESTIMATED BRANCH 2 FORK 2 TILE REPAIR COST WITHOUT ROAD - CSAH 8</b>					<b>\$ 3,191</b>

BRANCH 2 FORK 2 TILE IMPROVEMENT COST - CSAH 8

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 1,000.00	\$ 1,000
302	BORE 10-INCH TILE	LF	95	\$ 198.00	\$ 18,810
<b>TOTAL</b>					<b>\$ 19,810</b>
10% CONTINGENCY					\$ 1,981
<b>SUBTOTAL</b>					<b>\$ 21,791</b>
COUNTY ADMINISTRATION COSTS					\$ 1,100
REPORTS, PLANS AND SPECIFICATIONS					\$ 2,900
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,200
<b>ESTIMATED BRANCH 2 FORK 2 TILE IMPROVEMENT COST - CSAH 8</b>					<b>\$ 27,991</b>



ROAD CROSSINGS

BRANCH 5 FORK 1 TILE REPAIR COST WITH ROAD - 610TH AVE

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 100.00	\$ 100
102	10-INCH AGRICULTURAL TILE	LF	50	\$ 14.00	\$ 700
103	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					<b>\$ 2,000</b>
10% CONTINGENCY					\$ 200
<b>SUBTOTAL</b>					<b>\$ 2,200</b>
COUNTY ADMINISTRATION COSTS					\$ 200
REPORTS, PLANS AND SPECIFICATIONS					\$ 300
CONSTRUCTION STAKING & ADMINISTRATION					\$ 300
<b>ESTIMATED BRANCH 5 FORK 1 TILE REPAIR COST WITH ROAD - 610TH AVE</b>					<b>\$ 3,000</b>

BRANCH 5 FORK 1 TILE REPAIR COST WITHOUT ROAD - 610TH AVE

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 100.00	\$ 100
202	10-INCH AGRICULTURAL TILE	LF	50	\$ 14.00	\$ 700
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
<b>TOTAL</b>					<b>\$ 1,800</b>
10% CONTINGENCY					\$ 180
<b>SUBTOTAL</b>					<b>\$ 1,980</b>
TEMPORARY DAMAGES		AC	0.17	\$ 650.00	\$ 112
COUNTY ADMINISTRATION COSTS					\$ 100
REPORTS, PLANS AND SPECIFICATIONS					\$ 100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 100
<b>ESTIMATED BRANCH 5 FORK 1 TILE REPAIR COST WITHOUT ROAD - 610TH AVE</b>					<b>\$ 2,392</b>

BRANCH 5 FORK 1 TILE IMPROVEMENT COST - 610TH AVE

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 200.00	\$ 200
302	15-INCH AGRICULTURAL TILE	LF	50	\$ 22.00	\$ 1,100
303	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					<b>\$ 2,500</b>
10% CONTINGENCY					\$ 250
<b>SUBTOTAL</b>					<b>\$ 2,750</b>
COUNTY ADMINISTRATION COSTS					\$ 200
REPORTS, PLANS AND SPECIFICATIONS					\$ 400
CONSTRUCTION STAKING & ADMINISTRATION					\$ 300
<b>ESTIMATED BRANCH 5 FORK 1 TILE IMPROVEMENT COST - 610TH AVE</b>					<b>\$ 3,650</b>



ROAD CROSSINGS

BRANCH 5 FORK 2 TILE REPAIR COST WITH ROAD - CSAH 66

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	N/A	LS	1	\$ -	\$ -
<b>TOTAL</b>					\$ -
10% CONTINGENCY					\$ -
<b>SUBTOTAL</b>					\$ -
COUNTY ADMINISTRATION COSTS					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ -
CONSTRUCTION STAKING & ADMINISTRATION					\$ -
<b>ESTIMATED BRANCH 5 FORK 2 TILE REPAIR COST WITH ROAD - CSAH 66</b>					\$ -

BRANCH 5 FORK 2 TILE REPAIR COST WITHOUT ROAD - CSAH 66

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	N/A	LS	1	\$ -	\$ -
<b>TOTAL</b>					\$ -
10% CONTINGENCY					\$ -
<b>SUBTOTAL</b>					\$ -
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ -
CONSTRUCTION STAKING & ADMINISTRATION					\$ -
<b>ESTIMATED BRANCH 5 FORK 2 TILE REPAIR COST WITHOUT ROAD - CSAH 66</b>					\$ -

BRANCH 5 FORK 2 TILE IMPROVEMENT COST - CSAH 66

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 200.00	\$ 200
302	12-INCH AGRICULTURAL TILE	LF	65	\$ 18.00	\$ 1,170
303	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					\$ 2,570
10% CONTINGENCY					\$ 257
<b>SUBTOTAL</b>					\$ 2,827
COUNTY ADMINISTRATION COSTS					\$ 200
REPORTS, PLANS AND SPECIFICATIONS					\$ 400
CONSTRUCTION STAKING & ADMINISTRATION					\$ 300
<b>ESTIMATED BRANCH 5 FORK 2 TILE IMPROVEMENT COST - CSAH 66</b>					\$ 3,727



ROAD CROSSINGS

**BRANCH 6 TILE REPAIR COST WITH ROAD - CSAH 66**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 200.00	\$ 200
102	24-INCH AGRICULTURAL TILE	LF	50	\$ 29.00	\$ 1,450
103	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					<b>\$ 2,850</b>
10% CONTINGENCY					\$ 285
<b>SUBTOTAL</b>					<b>\$ 3,135</b>
COUNTY ADMINISTRATION COSTS					\$ 200
REPORTS, PLANS AND SPECIFICATIONS					\$ 500
CONSTRUCTION STAKING & ADMINISTRATION					\$ 400
<b>ESTIMATED BRANCH 6 TILE REPAIR COST WITH ROAD - CSAH 66</b>					<b>\$ 4,235</b>

**BRANCH 6 TILE REPAIR COST WITHOUT ROAD - CSAH 66**

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 200.00	\$ 200
202	24-INCH AGRICULTURAL TILE	LF	50	\$ 29.00	\$ 1,450
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
<b>TOTAL</b>					<b>\$ 2,650</b>
10% CONTINGENCY					\$ 265
<b>SUBTOTAL</b>					<b>\$ 2,915</b>
TEMPORARY DAMAGES		AC	0.17	\$ 650.00	\$ 112
COUNTY ADMINISTRATION COSTS					\$ 100
REPORTS, PLANS AND SPECIFICATIONS					\$ 100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 100
<b>ESTIMATED BRANCH 6 TILE REPAIR COST WITHOUT ROAD - CSAH 66</b>					<b>\$ 3,327</b>

**BRANCH 6 TILE IMPROVEMENT COST - CSAH 66**

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 300.00	\$ 300
302	42-INCH AGRICULTURAL TILE	LF	50	\$ 64.50	\$ 3,225
303	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					<b>\$ 4,725</b>
10% CONTINGENCY					\$ 473
<b>SUBTOTAL</b>					<b>\$ 5,198</b>
COUNTY ADMINISTRATION COSTS					\$ 300
REPORTS, PLANS AND SPECIFICATIONS					\$ 700
CONSTRUCTION STAKING & ADMINISTRATION					\$ 600
<b>ESTIMATED BRANCH 6 TILE IMPROVEMENT COST - CSAH 66</b>					<b>\$ 6,798</b>



ROAD CROSSINGS

BRANCH 6 (EXTENSION) TILE REPAIR COST WITH ROAD - 570TH AVE

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	N/A	LS	1	\$ -	\$ -
<b>TOTAL</b>					\$ -
10% CONTINGENCY					\$ -
<b>SUBTOTAL</b>					\$ -
COUNTY ADMINISTRATION COSTS					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ -
CONSTRUCTION STAKING & ADMINISTRATION					\$ -
<b>ESTIMATED BRANCH 6 (EXTENSION) TILE REPAIR COST WITH ROAD - 570TH AVE</b>					\$ -

BRANCH 6 (EXTENSION) TILE REPAIR COST WITHOUT ROAD - 570TH AVE

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	N/A	LS	1	\$ -	\$ -
<b>TOTAL</b>					\$ -
10% CONTINGENCY					\$ -
<b>SUBTOTAL</b>					\$ -
TEMPORARY DAMAGES		AC	0.00	\$ 650.00	\$ -
COUNTY ADMINISTRATION COSTS					\$ -
REPORTS, PLANS AND SPECIFICATIONS					\$ -
CONSTRUCTION STAKING & ADMINISTRATION					\$ -
<b>ESTIMATED BRANCH 6 (EXTENSION) TILE REPAIR COST WITHOUT ROAD - 570TH AVE</b>					\$ -

BRANCH 6 (EXTENSION) TILE IMPROVEMENT COST - 570TH AVE

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 200.00	\$ 200
302	36-INCH AGRICULTURAL TILE	LF	60	\$ 38.00	\$ 2,280
303	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					\$ 3,680
10% CONTINGENCY					\$ 368
<b>SUBTOTAL</b>					\$ 4,048
COUNTY ADMINISTRATION COSTS					\$ 300
REPORTS, PLANS AND SPECIFICATIONS					\$ 600
CONSTRUCTION STAKING & ADMINISTRATION					\$ 500
<b>ESTIMATED BRANCH 6 (EXTENSION) TILE IMPROVEMENT COST - 570TH AVE</b>					\$ 5,448





ROAD CROSSINGS

BRANCH 9 TILE REPAIR COST WITH ROAD - 240TH ST

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 200.00	\$ 200
102	18-INCH AGRICULTURAL TILE	LF	60	\$ 26.00	\$ 1,560
103	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					<b>\$ 2,960</b>
10% CONTINGENCY					\$ 296
<b>SUBTOTAL</b>					<b>\$ 3,256</b>
COUNTY ADMINISTRATION COSTS					\$ 200
REPORTS, PLANS AND SPECIFICATIONS					\$ 500
CONSTRUCTION STAKING & ADMINISTRATION					\$ 400
<b>ESTIMATED BRANCH 9 TILE REPAIR COST WITH ROAD - 240TH ST</b>					<b>\$ 4,356</b>

BRANCH 9 TILE REPAIR COST WITHOUT ROAD - 240TH ST

Item No.	Item	Unit	Quantity	Unit Price	Amount
201	MOBILIZATION	LS	1	\$ 200.00	\$ 200
202	18-INCH AGRICULTURAL TILE	LF	60	\$ 26.00	\$ 1,560
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
<b>TOTAL</b>					<b>\$ 2,760</b>
10% CONTINGENCY					\$ 276
<b>SUBTOTAL</b>					<b>\$ 3,036</b>
TEMPORARY DAMAGES		AC	0.21	\$ 650.00	\$ 134
COUNTY ADMINISTRATION COSTS					\$ 100
REPORTS, PLANS AND SPECIFICATIONS					\$ 100
CONSTRUCTION STAKING & ADMINISTRATION					\$ 100
<b>ESTIMATED BRANCH 9 TILE REPAIR COST WITHOUT ROAD - 240TH ST</b>					<b>\$ 3,470</b>

BRANCH 9 TILE IMPROVEMENT COST - 240TH ST

Item No.	Item	Unit	Quantity	Unit Price	Amount
301	MOBILIZATION	LS	1	\$ 200.00	\$ 200
302	24-INCH AGRICULTURAL TILE	LF	60	\$ 29.00	\$ 1,740
303	OPEN CUT & RESTORE GRAVEL ROAD OR DRIVEWAY	EA	1	\$ 1,200.00	\$ 1,200
<b>TOTAL</b>					<b>\$ 3,140</b>
10% CONTINGENCY					\$ 314
<b>SUBTOTAL</b>					<b>\$ 3,454</b>
COUNTY ADMINISTRATION COSTS					\$ 200
REPORTS, PLANS AND SPECIFICATIONS					\$ 500
CONSTRUCTION STAKING & ADMINISTRATION					\$ 400
<b>ESTIMATED BRANCH 9 TILE IMPROVEMENT COST - 240TH ST</b>					<b>\$ 4,554</b>



**PROPOSED ESTABLISHMENT OF LATERAL**

**Branch 5 Fork 2 Tile**

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 1,080.00	\$ 1,080
102	TILE INVESTIGATION	HR	2	\$ 149.40	\$ 299
103	15-INCH AGRICULTURAL TILE	LF	535	\$ 22.00	\$ 11,770
104	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	3	\$ 500.00	\$ 1,500
105	CONNECT EXISTING 12-INCH TILE	EA	1	\$ 850.00	\$ 850
106	GRANULAR PIPE FOUNDATION	CY	13.87	\$ 27.60	\$ 383
107	FURNISH & INSTALL WATER QUALITY INLET	EA	2	\$ 1,500.00	\$ 3,000
108	INSTALL 12-INCH PERFORATED TILE	LF	60	\$ 15.75	\$ 945
109	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 725.00	\$ 2,175
110	CAP DROP INTAKE (18-INCH)	EA	1	\$ 500.00	\$ 500
<b>SUBTOTAL</b>					<b>\$ 22,502</b>
10% UNFORSEEN					\$ 2,250
<b>TOTAL</b>					<b>\$ 24,752</b>
TEMPORARY DAMAGES		AC	1.23	\$ 650.00	\$ 798
TELEVISIONING (POST CONSTRUCTION)		LF	535	\$ 1.00	\$ 535
COUNTY ADMINISTRATION COSTS					\$ 1,238
TOPOGRAPHIC SURVEY					\$ 669
REPORTS, PLANS AND SPECIFICATIONS					\$ 3,218
CONSTRUCTION STAKING & ADMINISTRATION					\$ 2,476
<b>TOTAL BRANCH 5 FORK 2 TILE IMPROVEMENT COST</b>					<b>\$ 33,686</b>

**TOTAL IMPROVEMENT OPTION 1 COST**

	<b>Branch 5 Fork 2 Tile</b>	<b>\$ 33,686</b>
<b>COMPLETE ESTABLISHMENT COST</b>		<b>\$ 33,686</b>