

CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number: _____

Meeting Type: Regular

Meeting Date: Oct 9, 2014

Action Requested By: Water Pollution Control

Agenda Type: Resolution

Subject Matter:

Modification No. 1 to Agreement with Garver, L.L.C.

Exact Wording for the Agenda:

Resolution authorizing the Mayor to modify the agreement with Garver, L.L.C. for Engineering Design Services for Force Main Relocation Project – I-565 & County Line Road Interchange Modification, ALDOT Project No. IMD-I065(307) & COH Project No. 65-12-SM01, by Modification No. 1

13-122

Note: if amendment, please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: No

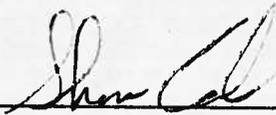
Briefly state why the action is required; why it is recommended; what council action will provide, allow and accomplish and; any other information that might be helpful.

This modification is for Engineering and Construction services for the County Line Road and I-565 Sanitary Sewer Relocation project for a total modification amount of \$10,823.54. Account No. 02-6500-0811-1349

Associated Cost: \$10,823.54

Budgeted Item: _____

MAYOR RECOMMENDS OR CONCURS: _____

Department Head: 

Date: 10-6-14



ROUTING SLIP CONTRACTS AND AGREEMENTS

Originating Department: **Engineering**

Council Meeting Date: **10/9/2014**

Department Contact: **Shane Cook**

Phone # **256-883-3719**

Contract or Agreement: **Modification No. 1**

Document Name: **Garver-WPC Forcemain Relocation Project No. 65-12-SM01 & ALDOT Project No. IMD-I065(307)**

City Obligation Amount: **\$10,823.54**

Total Project Budget: **\$196,770.54**

Uncommitted Account Balance: **0**

Account Number: **02-6500-0811-1349**

Procurement Agreements

<u>Not Applicable</u>	<u>Not Applicable</u>
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Grant-Funded Agreements

<u>Not Applicable</u>	Grant Name:
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Department	Signature	Date
1) Originating	<i>Shane Cook</i>	10-6-14
2) Legal		
3) Finance		
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

RESOLUTION NO. 14-_____

BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, that the Mayor be, and is hereby authorized, in Huntsville, Alabama, on behalf of the City of Huntsville, a municipal corporation in the State of Alabama to enter into Modification No. 1 to the Agreement with Garver, L.L.C., adopted and approved on the 14th day of February, 2013, by the City Council of the City of Huntsville, Alabama by Resolution No. 13-122, as attached hereto.

BE IT FURTHER RESOLVED that the total contract amount be and hereby is modified from ONE HUNDRED EIGHTY-FIVE THOUSAND NINE HUNDRED FORTY-SEVEN AND NO/100 DOLLARS (\$185,947.00) to ONE HUNDRED NINETY-SIX THOUSAND SEVEN HUNDRED SEVENTY AND .54/100 DOLLARS (\$196,770.54), including this Modification No. 1, an increase of TEN THOUSAND EIGHT HUNDRED TWENTY-THREE AND .54/100 DOLLARS (\$10,823.54). Original contract amount per Resolution No. 13-122 was ONE HUNDRED EIGHTY-SIX THOUSAND FIVE HUNDRED TWENTY-SIX AND .95/100 DOLLARS (\$186,526.95), which was reduced to ONE HUNDRED EIGHTY-FIVE THOUSAND NINE HUNDRED FORTY-SEVEN AND NO/100 DOLLARS (\$185,947.00) per audit performed by ALDOT subsequent to Council approval. Agreement is substantially in words and figures similar to that document attached hereto and identified as "Modification No. 1 to Agreement between City of Huntsville and Garver, L.L.C. for Engineering Design Services for Force Main Relocation Project - I-565 & County Line Road Interchange Modification, ALDOT Project No. IMD-I065(307) & COH Project No. 65-12-SM01, as adopted by Resolution No. 13-122 of February 14, 2013" consisting of a total of three (3) pages plus thirteen (13) additional pages consisting of Attachment "A", and the date of October 9, 2014, appearing on the margin of the first page, together with the signature of the President or President Pro Tem of the City Council, and an executed copy of said document being permanently kept on file in the Office of the City Clerk of the City of Huntsville, Alabama.

ADOPTED this the 9th day of October, 2014.

President of the City Council of
the City of Huntsville, Alabama

APPROVED this the 9th day of October, 2014.

Mayor of the City of Huntsville,
Alabama

STATE OF ALABAMA)
COUNTY OF MADISON)

Modification No. 1 to Agreement between the City of Huntsville and Garver, L.L.C. for Engineering Design Services for Force Main Relocation Project – I-565 & County Line Road Interchange Modification, ALDOT Project No. IMD-I065(307) & COH Project No. 65-12-SM01, as adopted by Resolution No. 13-122 of February 14, 2013

THIS IS MODIFICATION NO. 1 TO AN AGREEMENT entered in on the 14th day of February, 2013, in the amount of ONE HUNDRED EIGHTY-SIX THOUSAND FIVE HUNDRED TWENTY-SIX AND .95/100 DOLLARS (\$186,526.95). The Original Agreement amount was reduced TO ONE HUNDRED EIGHTY-FIVE THOUSAND NINE HUNDRED FORTY-SEVEN AND NO/100 DOLLARS (\$185,947.00) per ALDOT audit subsequent to Council approval. The Agreement is hereby amended by Modification No. 1 dated October 9, 2014, in the amount of TEN THOUSAND EIGHT HUNDRED TWENTY-THREE AND .54/100 DOLLARS (\$10,823.54) for a revised contract amount of ONE HUNDRED NINETY-SIX THOUSAND SEVEN HUNDRED SEVENTY AND .54/100 DOLLARS (\$196,770.54), by and between the City of Huntsville, Alabama, a municipal corporation in the State of Alabama (Owner) and GARVER, L.L.C., (ENGINEER).

WITNESSETH

WHEREAS, the firm identified as the ENGINEER to the Agreement dated February 14, 2013, has proposed a change, identified as Attachment "A" to the Original Agreement. This modification delineates a change for Engineering and Construction Services for the County Line Road and I-565 Sanitary Sewer Relocation project.

WHEREAS, the Owner desires that the contract documents be altered to be consistent with Attachment "A" hereto.

NOW THEREFORE, in consideration of the mutual covenants set forth herein, the Owner and the ENGINEER agree to the following modifications to the agreement:

1. Garver, L.L.C. will provide for Engineering and Construction Services for the County Line Road and I-565 Sanitary Sewer Relocation project at a time and materials cost not to exceed TEN THOUSAND EIGHT HUNDRED TWENTY-THREE AND .54/100 DOLLARS (\$10,823.54). New end date: September 30, 2014.

President of the City Council of the City of
Huntsville, AL

Date: October 9, 2014

2. Item #1 shall be performed in accordance with the original agreement dated February 14, 2013, and approved by the City Council by Resolution No. 13-122, and as described in the letter from Michael Malires to Matt Reynolds, dated September 24, 2014, shown as Attachment "A".
3. The terms of this contract modification and the execution thereof is not in any way to be viewed as a waiver on the part of the Owner of any of its rights pursuant to the Contract.
4. All other terms and conditions remain unchanged.

IN WITNESS WHEREOF, the parties have entered their hands and seals and attest to the same with the signature of the Mayor being the official act of the said municipality in accordance with his duly constituted authority.

THE CITY OF HUNTSVILLE, ALABAMA,
a municipal corporation

By: _____
Tommy Battle
Its Mayor

ATTEST:

Charles E. Hagood
City Clerk-Treasurer

STATE OF ALABAMA)
COUNTY OF MADISON)

I, the undersigned, a notary public in and for said County, in said State, hereby certify that Tommy Battle and Charles E. Hagood, whose names as Mayor and City Clerk-Treasurer of the City of Huntsville, a municipal corporation, are signed to the foregoing instrument, and who are known to me, acknowledged before me on this day that, being informed of the contents of the instrument, they, in their capacity as such officers, executed the same with full authority for and as the act of said corporation on the day the same bears day.

GIVEN under my hand and official seal this the _____ day of _____ 2014.

Notary Public
My Commission Expires: _____

ENGINEER: GARVER, L.L.C.

By: _____

ATTEST:

STATE OF ALABAMA)
COUNTY OF MADISON)

I, the undersigned, a notary public in and for said County, in said State, hereby certify that Jerry D. McCarley, as Vice President, is signed to the foregoing instrument, and who is known to me, acknowledged before me on this day that, being informed of the contents of the instrument, he, in his capacity as such officer, executed the same with full authority for and as the act of said Corporation on the day the same bears day.

GIVEN under my hand and official seal this the ____ day of _____ 2014.

Notary Public
My Commission Expires: _____



5125A Research Drive
Huntsville, AL 35805

TEL 256.534.5512
FAX 256.534.5544

www.GarverUSA.com

October 1, 2014

Attn: Mr. Matt Reynolds, P.E.
City of Huntsville Water Pollution Control Department
1800 Vermont Road SW
Huntsville, Alabama 35802

**RE: WPC Forcemain Relocation - County Line Road & I-565
ALDOT Project No. IMD-I065(307)
Request for Change Order No. 1**

Dear Mr. Reynolds:

This letter serves as a request to revise the total amount payable for Phase III Engineering Services related to Garver's Engineering Consultant Agreement with the City of Huntsville Water Pollution Control. The basis for this request is due to an extension in the contract time for the contractor to complete construction.

Garver requests additional work hours to keep our Construction Observers available during construction for the entire contract period, and results in an increase in the Maximum Amount Payable for Phase III Engineering in the amount of \$10,823.54.

Additionally, ALDOT completed an audit on Garver's rates (April 2013) after the Consultant Engineering Agreement was submitted and approved by City Council. City Council originally approved a total contract amount of \$186,526.95. ALDOT approved a revised total contract amount of \$185,947.00 in April 2013 as a result of their audit.

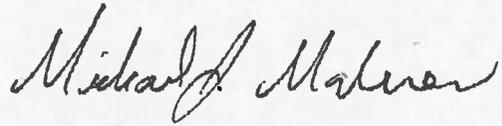
Based on the revised contract amount approved by ALDOT and Change Order request No. 1, Garver proposes to revise the Consultant Engineering Agreement as follows:

Original Contract Amount =	\$186,526.95
Revised Contract Amount =	(\$579.95)
Change Order No. 1 =	\$10,823.54
Grand Total =	\$196,770.54

Attached is a copy of the Utility Relocation Estimate and a breakdown of costs for the proposed Change Order No. 1.

Please contact me with any questions or if you need any additional information.

**Sincerely,
GARVER, LLC**

A handwritten signature in cursive script that reads "Michael J. Malires".

**Michael J. Malires, PE
Project Manager**

**Cc: Dana Pollock, Garver
File**

**Att: ALDOT Concurrence Letter for Change Order No. 1 Request
Breakdown of Costs – Change Order No. 1 Request
Utility Relocation Estimate**



ALABAMA
DEPARTMENT OF TRANSPORTATION
First Division
Office of Division Engineer



Robert Bentley
Governor

John R. Cooper
Transportation Director

July 22, 2014

Mr. Shane Cook
City of Huntsville Water Pollution Control
1800 Vermont Road
Huntsville, AL 35802

Re: Project IM-1565(307) I-565, New Interchange
Improvements at CR-3(County Line Road)
Limestone County

Dear Mr. Cook:

We have received your request for a change for a change order for Phase 3 Engineering to cover additional construction observer costs. This is due to the request for an extension in the contract time for the contractor to complete construction. We concur with your request for the time extension and for the additional Phase 3 Engineering. However, we will not submit a change order for the Phase 3 engineering until the actual Phase 3 charges exceed the original agreement amount of \$62,768.21.

Sincerely,

 Johnny L. Harris, P.E./P.L.S.
Division Engineer

JLH/KRL/krl
attachment

C:

Mr. Mike Malires, P.E.
File



5125A Research Drive
Huntsville, AL 35805

TEL 256.534.5512
FAX 256.534.5544

www.GarverUSA.com

April 30, 2014

Attn: Mr. Ken Loggins
Alabama Department of Transportation – First Division
23445 Highway 431, North
Guntersville, Alabama 35976

**RE: WPC Forcemain Relocation - County Line Road & I-565
ALDOT Project No. IMD-I065(307)
Request for Change Order No. 1**

Dear Mr. Loggins:

This letter serves as a request to revise the total amount payable for Phase III Engineering Services related to Garver's Engineering Consultant Agreement with the City of Huntsville Water Pollution Control. The basis for this request is due to an extension in the contract time for the contractor to complete construction.

The original contract time in the contract documents was set at 120 days and the City of Huntsville increased the contract time to 150 days as an addendum during project advertisement. Garver requests to increase the number of work hours for Construction Observers by an additional:

C-1 = 10 hours,
C-2 = 110 hours, and
C-3 = 3 hours.

These additional work hours will keep our Construction Observers available during construction for the entire contract period, and results in an increase in the Maximum Amount Payable for Phase III Engineering to \$73,591.75. This is an increase in the amount of \$10,823.54. Attached is a copy of the Utility Relocation Estimate and a breakdown of costs for the proposed Change Order No. 1.

Please contact me with any questions or if you need any additional information.

Sincerely,
GARVER, LLC

Michael J. Malires, PE
Project Manager

Cc: Matt Reynolds, COH
Dana Pollock, Garver

File

**Att: Breakdown of Costs – Change Order No. 1 Request
Utility Relocation Estimate**

CHANGE ORDER NO. 1 REQUEST**PHASE 3 - CONSTRUCTION ADMINISTRATION (BREAKDOWN OF ADDITIONAL FEES)**

Senior Project Manager (E6)	<u>2</u>	hours	@	<u>\$66.14</u>	<u>\$132.28</u>
Senior Project Manager (E4)	<u>4</u>	hours	@	<u>\$41.39</u>	<u>\$165.56</u>
Project Manager (E3)	<u>102</u>	hours	@	<u>\$36.61</u>	<u>\$3,734.22</u>
Surveyor (S5)	<u>2</u>	hours	@	<u>\$38.25</u>	<u>\$76.50</u>
Survey Crew (S1)	<u>10</u>	hours	@	<u>\$11.80</u>	<u>\$118.00</u>
Survey Crew (S2)	<u>10</u>	hours	@	<u>\$15.49</u>	<u>\$154.90</u>
Survey Crew (S3)	<u>20</u>	hours	@	<u>\$18.98</u>	<u>\$379.60</u>
Construction Observer (C-3)	<u>13</u>	hours	@	<u>\$47.98</u>	<u>\$623.74</u>
Construction Observer (C-2)	<u>450</u>	hours	@	<u>\$32.50</u>	<u>\$14,625.00</u>
Construction Observer (C-1)	<u>50</u>	hours	@	<u>\$22.64</u>	<u>\$1,132.00</u>
Technician (T-1)	<u>0</u>	hours	@	<u>\$20.04</u>	<u>\$0.00</u>
Administration (X-3)	<u>12</u>	hours	@	<u>\$27.74</u>	<u>\$332.88</u>
Administration (X-1)	<u>12</u>	hours	@	<u>\$13.54</u>	<u>\$162.48</u>

TOTAL LABOR 687 \$21,637.16

Overhead Factor 1.9770 (including payroll additives) \$42,776.67

Transportation: 3,000 miles @ \$0.565 \$1,695.00
(This rate is not to exceed the rate allowed by State law.)

Subsistence: Meals and Lodging

Reproduction Costs \$600.00

SUBTOTAL \$66,708.83
FCCM FACTOR (0.0098) \$212.04
OPERATING MARGIN (10%) \$6,670.88
MAXIMUM AMOUNT PAYABLE FOR PHASE III ENGINEERING \$73,591.75

PHASE I TOTAL \$42,423.62
PHASE II TOTAL \$80,755.17

REVISED GRAND TOTAL \$196,770.54

Utility Relocation Estimate

County: Limestone

Project No: IM-I565 (307), New Interchange Improvements at CR-3 (County Line Road)

Date: April 4, 2013

Name of Utility: City of Huntsville - Water Pollution Control

Address: 1800 Vermont Road Huntsville, Alabama 35802

Submitted By:

Jerry McCarley, Senior Project Manager
5125A Research Drive
Huntsville, Alabama 35805
(256) 534.5512

(Please list the name, address and telephone number of the Utility's representative in responsible charge of work if different from above.)

Shane Cook, Interim Director
1800 Vermont Road
Huntsville, Alabama 35802
(256) 883.3719

Number of calendar days from receipt of Notice to Proceed to actual beginning of relocation: 15 days

Number of calendar days from beginning to completion of work, including cleanup: 180 days

If the Utility is regulated by a State or Federal Agency, please list the Agency. n/a

A Consultant Engineer (x) will, () will not be used.

The gross receipts of this Utility () did, (x) did not exceed two hundred fifty (250) million dollars for the calendar year preceding the proposed relocation.

The method to be used to accomplish this relocation work is:

- (a) _____ by UTILITY'S own forces;
- (b) _____ by Contract Let by the UTILITY;
- (c) _____ by existing, written continuing contract; or
- (d) X by combination of the preceding (must be detailed within this estimate).

SUMMARY OF QUANTITIES

	<u>IN-KIND</u>	<u>BETTERMENT</u>
1. Gross Estimated Construction Cost Only	\$ <u>1,215,200</u>	\$ <u>1,446,950</u>
2. Less Salvage Credit (Show as zero if none)	\$ <u>0.00</u>	\$ <u>0.00</u>
3. Less Other Credit (If Applicable)	\$ <u>0.00</u>	\$ <u>0.00</u>
4. Total Estimated Construction Cost Only	\$ <u>1,215,200</u>	\$ <u>1,446,950</u>
5. Difference in Estimated Cost	\$ <u>231,750</u>	\$ _____
(Betterment minus In-Kind)		
6. Utility's Pro Rata Share of Estimated Construction Cost		<u>16.02%</u>
(Line 5 divided by Betterment Total X 100 Percent)		
7. State's Pro Rata Share of Estimated Construction Cost		<u>83.98%</u>
(100 Percent minus Line 6 Percentage)		
	<u>STATE</u>	<u>UTILITY</u>
8. Pro Rata Construction Cost	\$ <u>1,215,200</u>	\$ <u>231,750</u>
9. Pro Rata Engineering Cost	\$ <u>156,158.29</u>	\$ <u>29,788.71</u>
(\$185,947.00 X 83.98%)		
10. Total Right-of-Way Acquisition Cost	\$ <u>50,000</u>	\$ <u>0.00</u>
(If not 100% State Reimbursable, please list accordingly)		
11. Grand Total	\$ <u>1,421,358.29</u>	\$ <u>261,538.71</u>
(List State Total on Page 2 of the SAHD No. 2 Agreement)		

ITEM 1 - RIGHT-OF-WAY ACQUISITION COSTS

a. Labor (Appraisal by utility employees)

Classification	Rate	Hours	Amount
Company Appraiser	\$ _____	(____)	\$ _____
Engineer	\$ _____	(____)	\$ _____
Other _____	\$ _____	(____)	\$ _____
Subtotal Labor Cost			\$ _____
Additive Factor (Ins., overhead, etc.) _____			
Additive Factor times Subtotal Labor Cost			\$ _____
Total Labor Cost for Appraisal			\$ _____

b. Equipment

Size/Type	No.	Rate	Miles/Hours	
_____	(____)	\$ _____	(_____)	\$ _____
_____	(____)	\$ _____	(_____)	\$ _____
Total Equipment Cost				\$ _____

c. Miscellaneous Expenses

Recording Costs	\$ _____
Deed Costs	\$ _____
Independent Appraisers	\$ _____
Other _____	\$ _____
Total Miscellaneous Expense	\$ _____

d. Right-of-Way or Easement Cost (Property only) \$ 50,000

TOTAL RIGHT-OF-WAY ACQUISITION COST \$ 50,000
(Line 10 on Summary Sheet)

NOTE: The utility shall submit above costs for prior State approval and be able to justify amounts recorded. Sound valuation and acquisition practices shall be followed including use of adequate and formal appraisals of record.

NOTE: If no ROW is involved, discard this sheet.

EXHIBIT B
12058060 I-565 @ County Line Road Forcemain Relocation

ALTERNATE A (IN-KIND)				
Item	Quantity	Unit Cost	Total	
WORK PERFORMED UNDER CONTINUING CONTRACT				
18" CL 250 DIP-RJ (Owner-furnish Mt'l)	2,500 LF	\$53 /LF	\$132,500	
18" CL 250 DIP-RJ (Labor Only)	2,500 LF	\$42 /LF	\$105,000	
18" DIP-RJ 45 Degree Bend	3 EA	\$2,500 /EA	\$7,500	
Connect New 18" FM w/ Ex. 18" FM	2 EA	\$15,000 /EA	\$30,000	
Silt Fence	2,500 LF	\$7 /LF	\$17,500	
Site Restoration	1.70 AC	\$4,000 /AC	\$6,800	
WORK LET BY UTILITY				
16" CL 250 DIP (Owner-furnish Mt'l)	6,000 LF	\$43 /EA	\$258,000	
16" CL 250 DIP-RJ FM (Labor only)	6,000 LF	\$42 /EA	\$252,000	
16" DIP-RJ 45 Degree Bend	17 EA	\$2,500 /EA	\$42,500	
30" Steel Encasement Jack & Bore	300 LF	\$380 /LF	\$114,000	
16" DIP-RJ Carrier Pipe	300 EA	\$70 /EA	\$21,000	
2" Air Release Valve	2 EA	\$5,000 /EA	\$10,000	
Connect New 16" FM w/ Ex. 16" FM	2 EA	\$10,000 /EA	\$20,000	
Misc				
Bypass Pumping	1 LS	\$25,000 /LS	\$25,000	
Clearing & Grubbing	4 AC	\$1,500 /EA	\$6,000	
Hay Bales	50 EA	\$14 /EA	\$700	
Silt Fence	6,000 LF	\$5 /LF	\$30,000	
Silt Fence Removal	6,000 LF	\$2 /LF	\$12,000	
Site Restoration	2.30 AC	\$4,000 /AC	\$9,200	
Bonds & Insurance	1 LS	\$10,000 /LS	\$10,000	
Mobilization & Demobilization	1 LS	\$50,000 /LS	\$50,000	
Fencing Restoration	1,000 LF	\$30 /LS	\$30,000	
Crop Damage Reimbursement	4 AC	\$2,000 /AC	\$8,000	
Traffic Control	1 LS	\$7,500 /LS	\$7,500	
Startup and Testing	1 LS	\$10,000 /LS	\$10,000	
			Total In-Kind	\$1,215,200
			Betterment	\$231,750
			In-Kind Percent	83.98%

ALTERNATE B (BETTERMENT)				
Item	Quantity	Unit Cost	Total	
WORK PERFORMED UNDER CONTINUING CONTRACT				
18" CL 250 DIP-RJ (Owner-furnish Mt'l)	2,500 LF	\$53 /LF	\$132,500	
18" CL 250 DIP-RJ (Labor Only)	2,500 LF	\$42 /LF	\$105,000	
18" DIP-RJ 45 Degree Bend	3 EA	\$2,500 /EA	\$7,500	
Connect New 18" FM w/ Ex. 18" FM	2 EA	\$15,000 /EA	\$30,000	
Silt Fence	2,500 LF	\$7 /LF	\$17,500	
Site Restoration	1.70 AC	\$4,000 /AC	\$6,800	
WORK LET BY UTILITY				
16" CL 350 DIP (Owner-furnish Mt'l)	7,000 LF	\$47 /EA	\$329,000	
16" CL 350 DIP (10'-15' - Labor only)	4,000 LF	\$63 /EA	\$252,000	
16" CL 350 DIP (15'-20' - Labor only)	2,000 EA	\$83 /EA	\$166,000	
16" CL 350 DIP (20'-25' - Labor only)	1,000 LF	\$113 /LF	\$113,000	
48" Diameter Manhole	20 EA	\$3,500 /EA	\$70,000	
Open Cut Creek Crossing	60 EA	\$150 /EA	\$9,000	
Outside Drop Manhole Connection	25 LF	\$1,030 /LF	\$25,750	
Misc				
Bypass Pumping	1 LS	\$10,000 /LS	\$10,000	
Clearing & Grubbing	5 AC	\$1,500 /EA	\$7,500	
Hay Bales	50 EA	\$14 /EA	\$700	
Silt Fence	7,000 LF	\$5 /LF	\$35,000	
Silt Fence Removal	7,000 LF	\$2 /LF	\$14,000	
Site Restoration	3.30 AC	\$4,000 /AC	\$13,200	
Bonds & Insurance	1 LS	\$15,000 /LS	\$15,000	
Mobilization & Demobilization	1 LS	\$50,000 /LS	\$50,000	
Fencing Restoration	500 LF	\$30 /LS	\$15,000	
Crop Damage Reimbursement	5 AC	\$2,000 /AC	\$10,000	
Traffic Control	1 LS	\$2,500 /LS	\$2,500	
Startup and Testing	1 LS	\$10,000 /LS	\$10,000	
			Total with Betterment	\$1,446,950
			Betterment Percent	16.02%

* Denotes Betterment Item

PHASE 1 - CONCEPTUAL DESIGN

Senior Project Manager (E6)	6	hours @	\$66.14	\$396.84
Senior Project Manager (E4)	8	hours @	\$41.39	\$331.12
Project Manager (E3)	130	hours @	\$36.61	\$4,759.30
Surveyor (S5)	32	hours @	\$38.25	\$1,224.00
Survey Crew (S1)	78	hours @	\$11.80	\$920.40
Survey Crew (S2)	78	hours @	\$15.49	\$1,208.22
Survey Crew (S3)	78	hours @	\$18.98	\$1,480.44
Construction Observer (C-3)	10	hours @	\$47.98	\$479.80
Construction Observer (C-2)	0	hours @	\$32.50	\$0.00
Construction Observer (C-1)	0	hours @	\$22.64	\$0.00
Technician (T-1)	82	hours @	\$20.04	\$1,643.28
Administration (X-3)	8	hours @	\$27.74	\$221.92
Administration (X-1)	8	hours @	\$13.54	\$108.32

TOTAL LABOR 518 \$12,773.64

Overhead Factor 1.9770 (including payroll additives) \$25,253.49

Transportation: 400 miles @ \$0.565 \$226.00
(This rate is not to exceed the rate allowed by State law.)

Subsistence: Meals and Lodging _____

Reproduction Costs \$200.00

SUBTOTAL \$38,453.13

FCCM FACTOR (0.0098) \$125.18

OPERATING MARGIN (10%) \$3,845.31

MAXIMUM AMOUNT PAYABLE FOR PHASE I ENGINEERING \$42,423.62

PHASE 2 - FINAL DESIGN

Senior Project Manager (E6)	<u>12</u>	hours @	<u>\$66.14</u>	<u>\$793.68</u>
Senior Project Manager (E4)	<u>44</u>	hours @	<u>\$41.39</u>	<u>\$1,821.16</u>
Project Manager (E3)	<u>330</u>	hours @	<u>\$36.61</u>	<u>\$12,081.30</u>
Surveyor (S5)	<u>0</u>	hours @	<u>\$38.25</u>	<u>\$0.00</u>
Survey Crew (S1)	<u>0</u>	hours @	<u>\$11.80</u>	<u>\$0.00</u>
Survey Crew (S2)	<u>0</u>	hours @	<u>\$15.49</u>	<u>\$0.00</u>
Survey Crew (S3)	<u>0</u>	hours @	<u>\$18.98</u>	<u>\$0.00</u>
Construction Observer (C-3)	<u>24</u>	hours @	<u>\$47.98</u>	<u>\$1,151.52</u>
Construction Observer (C-2)	<u>0</u>	hours @	<u>\$32.50</u>	<u>\$0.00</u>
Construction Observer (C-1)	<u>0</u>	hours @	<u>\$22.64</u>	<u>\$0.00</u>
Technician (T-1)	<u>400</u>	hours @	<u>\$20.04</u>	<u>\$8,016.00</u>
Administration (X-3)	<u>16</u>	hours @	<u>\$27.74</u>	<u>\$443.84</u>
Administration (X-1)	<u>14</u>	hours @	<u>\$13.54</u>	<u>\$189.56</u>

TOTAL LABOR 840 \$24,497.06

Overhead Factor 1.9770 (including payroll additives) \$48,430.69

Transportation: 120 miles @ \$0.565 \$67.80
(This rate is not to exceed the rate allowed by State law.)

Subsistence: Meals and Lodging _____

Reproduction Costs \$200.00

SUBTOTAL \$73,195.55
FCCM FACTOR (0.0098) \$240.07
OPERATING MARGIN (10%) \$7,319.55
MAXIMUM AMOUNT PAYABLE FOR PHASE II ENGINEERING **\$80,755.17**

PHASE 3 - CONSTRUCTION ADMINISTRATION

Senior Project Manager (E6)	<u>2</u>	hours @	<u>\$66.14</u>	<u>\$132.28</u>
Senior Project Manager (E4)	<u>4</u>	hours @	<u>\$41.39</u>	<u>\$165.56</u>
Project Manager (E3)	<u>102</u>	hours @	<u>\$36.61</u>	<u>\$3,734.22</u>
Surveyor (S5)	<u>2</u>	hours @	<u>\$38.25</u>	<u>\$76.50</u>
Survey Crew (S1)	<u>10</u>	hours @	<u>\$11.80</u>	<u>\$118.00</u>
Survey Crew (S2)	<u>10</u>	hours @	<u>\$15.49</u>	<u>\$154.90</u>
Survey Crew (S3)	<u>20</u>	hours @	<u>\$18.98</u>	<u>\$379.60</u>
Construction Observer (C-3)	<u>10</u>	hours @	<u>\$47.98</u>	<u>\$479.80</u>
Construction Observer (C-2)	<u>360</u>	hours @	<u>\$32.50</u>	<u>\$11,700.00</u>
Construction Observer (C-1)	<u>40</u>	hours @	<u>\$22.64</u>	<u>\$905.60</u>
Technician (T-1)	<u>0</u>	hours @	<u>\$20.04</u>	<u>\$0.00</u>
Administration (X-3)	<u>12</u>	hours @	<u>\$27.74</u>	<u>\$332.88</u>
Administration (X-1)	<u>12</u>	hours @	<u>\$13.54</u>	<u>\$162.48</u>

TOTAL LABOR 584 \$18,341.82

Overhead Factor 1.9770 (including payroll additives) \$36,261.78

Transportation: 3.000 miles @ \$0.565 \$1,695.00
(This rate is not to exceed the rate allowed by State law.)

Subsistence: Meals and Lodging _____

Reproduction Costs \$600.00

SUBTOTAL \$56,898.60

FCCM FACTOR (0.0098) \$179.75

OPERATING MARGIN (10%) \$5,689.86

MAXIMUM AMOUNT PAYABLE FOR PHASE III ENGINEERING **\$62,768.21**

GRAND TOTAL **\$185,947.00**