

CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number: \_\_\_\_\_

Meeting Type: Regular

Meeting Date: Aug 14, 2014

Action Requested By: Engineering

Agenda Type: Resolution

Subject Matter:

Modification No. 2 to Agreement with Barge, Waggoner, Sumner & Cannon, Inc.

Exact Wording for the Agenda:

Resolution authorizing the Mayor to modify the agreement with Barge, Waggoner, Sumner & Cannon, Inc. for Huntsville Northern Bypass from 1.2 Miles East of Pulaski Pike to U. S. Highway 431, Project No. 65-10-RD08, by Modification No. 2

11-229 & 2-655

Note: If amendment, Please state title and number of the original

Item to be considered for: Action

Unanimous Consent Required: Yes

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 needed because the Environmental Assessment defined an additional twelve (12) parcels along North Parkway that needed to be included in the design for a total modification amount of \$81,143.00. Account No. 23-6500-0813-8114

Associated Cost: \$81,143.00

Budgeted Item: \_\_\_\_\_

MAYOR RECOMMENDS OR CONCURS: \_\_\_\_\_

BP  
PK

Department Head: Kathy Marti

Date: 7/30/14

# ROUTING SLIP CONTRACTS AND AGREEMENTS

Originating Department: **Engineering**

Council Meeting Date: **8/14/2014**

Department Contact: **Lynn Majors**

Phone # **256-427-5201**

Contract or Agreement: **Modification No. 2**

Document Name: **Huntsville Northern Bypass Project No. 65-10-RD08**

City Obligation Amount: **\$81,143.00**

Total Project Budget: **\$1,011,426.00**

Uncommitted Account Balance: **0**

Account Number: **23-6500-0813-8114**

## Procurement Agreements

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

<b><u>Not Applicable</u></b>	<b>Grant Name:</b>
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Department	Signature	Date
1) Originating	<i>Lynn Majors</i>	7/30/14
2) Legal	<i>Amy Cates</i>	8/1/14
3) Finance	<i>[Signature]</i>	8/4/14
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. 2 to the Agreement with Barge, Waggoner, Sumner & Cannon, Inc., adopted and approved on the 24th day of March, 2011, by the City Council of the City of Huntsville, Alabama by Resolution No. 11-229, and amended on the 26th day of July, 2012, by Resolution No. 12-655, as attached hereto.

**BE IT FURTHER RESOLVED** that the total contract amount be and hereby is modified from NINE HUNDRED THIRTY THOUSAND TWO HUNDRED EIGHTY-THREE AND NO/100 DOLLARS (\$930,283.00) to ONE MILLION ELEVEN THOUSAND FOUR HUNDRED TWENTY-SIX AND NO/100 DOLLARS (\$1,011,426.00), including this Modification No. 2, an increase of EIGHTY-ONE THOUSAND ONE HUNDRED FORTY-THREE AND NO/100 DOLLARS (\$81,143.00). New end date: June 1, 2017. Agreement is substantially in words and figures similar to that document attached hereto and identified as "Modification No. 2 to Agreement between City of Huntsville and Barge, Waggoner, Sumner & Cannon, Inc. for Huntsville Northern Bypass from 1.2 Miles East of Pulaski Pike to U. S. Highway 431, Project No. 65-10-RD08, as adopted by Resolution No. 11-229 of March 24, 2011, and amended by Resolution No. 12-655 of July 26, 2012" consisting of a total of three (3) pages plus thirty-four (34) additional pages consisting of Attachment "A", and the date of August 14, 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 14th day of August, 2014.

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

**APPROVED** this the 14th day of August, 2014.

\_\_\_\_\_  
Mayor of the City of Huntsville,  
Alabama

STATE OF ALABAMA     )  
COUNTY OF MADISON    )

Modification No. 2 to Agreement between the City of Huntsville and Barge, Waggoner, Sumner & Cannon, Inc. for Huntsville Northern Bypass from 1.2 Miles East of Pulaski Pike to U. S. Highway 431, Project No. 65-10-RD08, as adopted by Resolution No. 11-229 of March 24, 2011, and amended by Resolution No. 12-655 of July 26, 2012

**THIS IS MODIFICATION NO. 2 TO AN AGREEMENT** entered in on the 24th day of March, 2011, in the amount of EIGHT HUNDRED SEVENTY-FIVE THOUSAND SEVEN HUNDRED FORTY-TWO AND NO/100 DOLLARS (\$875,742.00), and amended on the 26th day of July, 2012, in the amount of FIFTY-FOUR THOUSAND FIVE HUNDRED FORTY-ONE AND NO/100 DOLLARS (\$54,541.00), for a revised total contract amount of NINE HUNDRED THIRTY THOUSAND TWO HUNDRED EIGHTY-THREE AND NO/100 DOLLARS (\$930,283.00). The original Agreement is hereby amended by Modification No. 2 dated August 14, 2014, in the amount of EIGHTY-ONE THOUSAND ONE HUNDRED FORTY-THREE AND NO/100 DOLLARS (\$81,143.00), for a revised total contract amount of ONE MILLION ELEVEN THOUSAND FOUR HUNDRED TWENTY-SIX AND NO/100 DOLLARS (\$1,011,426.00), by and between the City of Huntsville, Alabama, a municipal corporation in the State of Alabama (Owner) and BARGE, WAGGONER, SUMNER & CANNON, INC., (ENGINEER).

**WITNESSETH**

**WHEREAS**, the firm identified as the ENGINEER to the Agreement dated March 24, 2011, and amended on July 26, 2012, has proposed a change, identified as Attachment "A" to the Original Agreement. This modification delineates a change needed due to: Environmental Assessment defined an additional twelve (12) parcels along North Parkway that needed to be included in the design.

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

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

Date: August 14, 2014

**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. Barge, Waggoner, Sumner & Cannon, Inc. will provide for additional design services at a time and materials cost not to exceed EIGHTY-ONE THOUSAND ONE HUNDRED FORTY-THREE AND NO/100 DOLLARS (\$81,143.00). New end date: June 1, 2017.
2. Item #1 shall be performed in accordance with the original agreement dated March 24, 2011, and approved by the City Council by Resolution No. 11-229, and as described in the letter from Jack Kimbrough and David Willingham to Kathy Martin, dated July 16, 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    )

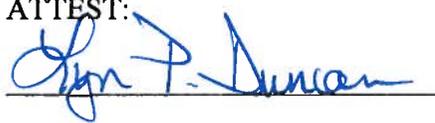
I, the undersigned, a notary public in and for said County, in said State, hereby certify that Tommy Battle and Charles E. Hagood, whose names as Mayor and City Clerk-Treasurer of the City of Huntsville, a municipal corporation, are signed to the foregoing instrument, and who are known to me, acknowledged 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:    BARGE, WAGGONER,  
              SUMNER & CANNON, INC.

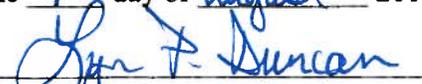
By: 

ATTEST:  


STATE OF ALABAMA     )  
COUNTY OF MADISON    )

I, the undersigned, a notary public in and for said County, in said State, hereby certify that David Willingham, 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 4<sup>th</sup> day of August 2014.

  
Notary Public  
My Commission Expires: 2/16/2014



7-16-14  
File 32321-30

*KJM*  
Ms. Kathy Martin, PE  
Director, Engineering Division  
City of Huntsville  
320 Fountain Circle  
Huntsville, Alabama 35801

**RE: Huntsville Northern Bypass from 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431): Contract Modification #2**

Dear Ms. Martin:

Several items noted in the original contract have changed due to design modifications and revised requirements. BWSC will provide the services listed as outlined in the Scope of Services attached, according to the Man-day worksheet and schedule attached.

If you should have any questions, please feel free to call Jack Kimbrough, Jr. PE, at 256-533-1561.

Sincerely,

  
Jack Kimbrough, Jr., PE  
Project Manager



David D. Willingham, PE  
Vice President

Ms. Kathy Martin, PE  
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July 16, 2014  
File 32321-30

**SCOPE OF SERVICES**  
**HUNTSVILLE NORTHERN BYPASS**  
**FROM 1.2 MILES EAST OF CR-86 (PULASKI PIKE) TO SR-1 (US-431)**  
**NEW ALIGNMENT**  
**CORRIDOR STUDY, RIGHT OF WAY DOCUMENTS, AND CONSTRUCTION PLANS**  
**CONTRACT MODIFICATION #2**

**PROJECT DESCRIPTION:**

This supplement request will cover additional services related to Field Survey, Right-of-Way Documents, Roadway Plans, Permitting, and the Geotechnical Investigation as described below.

**I: Corridor Study:** The FONSI Re-evaluation for this project has been completed.

**II: Survey:** Several locations along the project corridor have experienced development since the original survey. This supplement will cover additional topographic surveys and right of way locations for these areas to update the survey information collected previously.

- No specific deliverables are associated with this task.

No additional meetings are anticipated for this task.

**III: Right Of Way Documents:** As a part of the original contract, 70 takings were identified for the project. Due to project revisions the current number of takings is 82. This supplement will cover additional work for the Right of Way Map, Tract Sketches, Deeds, and Acquired Parcel Staking.

- Deliverables for this task will correspond with the original contract.

No additional meetings are anticipated for this task.

**IV: Roadway Plans**

1. Erosion and Sediment Control Plans – At the time of the original contract, ALDOT did not require phased erosion control plans. This supplement will cover the additional effort to produce phased erosion control plans as currently required by ALDOT.

Ms. Kathy Martin, PE  
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2. Geotechnical Investigation – As a subconsultant to BWSC, S&ME will perform the geotechnical investigation and materials report. S&ME's original proposal was prepared prior to any design work and was thus based on assumed conditions. Based on the current design plans, S&ME has developed a geotechnical sampling plan which has been approved by ALDOT. The approved plan requires more borings than were included in the original proposal. This supplement will cover the additional soil borings required. (See attached S&ME Proposal)
3. 404 Permitting - As a subconsultant to BWSC, S&ME will perform the stream permitting for the project. The number of impacted streams has increased from five identified in the original environmental document to ten identified in the re-evaluation. This supplement will cover permitting for the additional streams identified. (See attached S&ME Proposal)

- Deliverables for this task will correspond with the original contract.

No additional meetings are anticipated for this task.

**\*\*ASSUMPTIONS AND CLARIFICATIONS:**

1. THE ASSUMPTIONS AND CLARIFICATIONS FROM THE ORIGINAL CONTRACT SHALL STILL APPLY.

7/15/2014

City of Huntsville Engineering Division

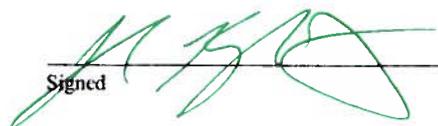
4:29 PM

<b>Project No.</b>	65-10-RD08
<b>Project Name</b>	Huntsville Northern Bypass - West Section
<b>Description</b>	From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)
<b>Scope of Work</b>	Modification No. 2
<b>Project Length</b>	4.17
<b>C.O.H. Project Engineer</b>	Bill Boggess
<b>Engineering Consultant</b>	Barge, Waggoner, Sumner and Cannon, Inc.

**GRAND TOTAL OF FEE PROPOSAL**

	Labor Cost	Out-of-pocket Expenses	Fee
Corridor Study	\$0.00	\$0.00	\$0.00
Field Surveys	\$5,787.60	\$180.00	\$5,967.60
Preliminary Roadway Plans	\$0.00	\$0.00	\$0.00
Preliminary Bridge Plans	\$0.00	\$0.00	\$0.00
Right-of-Way Map, Tract Sketches and Deeds	\$16,035.20	\$162.60	\$16,197.80
Roadway Plans	\$57,102.09	\$1,875.75	\$58,977.84
Bridge Plans	\$0.00	\$0.00	\$0.00
Drainage Plans	\$0.00	\$0.00	\$0.00
Sanitary Sewer Plans	\$0.00	\$0.00	\$0.00
Environmental	\$0.00	\$0.00	\$0.00
<b>GRAND TOTAL FEE</b>			<b>\$81,143</b>

LABOR RATES	Effective Time Period	PROJECT DURATION
<b>Classification</b>	<b>Hourly Rate</b>	<b>Assigned Personnel</b>
Project Engineer	\$155.00	KEITH MAGEE
Environmental Scientist		
Design Engineer	\$120.00	JACK KIMBROUGH, JR.
Engineer Tech. / CADD	\$80.00	JEREMY GREEN
Clerical	\$67.00	MICHELLE GWIN
PLS	\$104.00	GARY PITZING
Survey Crew	\$160.00	

  
 Signed \_\_\_\_\_ Date 7-16-14  
  
 Position/Title

7/15/2014

City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08			
<b>Project Name</b> Huntsville Northern Bypass - West Section			
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)			
<b>Scope of Work</b> Modification No. 2			
<b>Project Length</b> 4.17			
<b>C.O.H. Project Engineer</b> Bill Boggess			
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.			
<b>FIELD SURVEY</b>			Engineer Tech. / CADD
<b>Based on a 3 Man Crew</b>			PLS Survey Crew
<b>Task</b>			<b>ESTIMATED MAN-DAYS</b>
Contact Property Owners	0.10	0.00	0.00
Perform Basic Control Survey	0.00	0.00	0.00
Obtain Topographic Data	0.50	2.00	0.00
Define Drainage Areas/Prepare Schematic Drainage Map	0.00	0.00	0.00
Identify/Locate Utilities	0.10	0.50	0.00
Tie to Required Property Corners	0.00	0.50	0.00
Obtain Copies of Latest Deeds	0.10	0.00	0.00
Set & Reference PIs, PCs, POTs, POCs, & other critical points	0.00	0.00	0.00
Prepare Detailed Topographical/Field Map	0.25	0.00	0.50
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
<b>TOTALS</b>	<b>1.05</b>	<b>3.00</b>	<b>0.50</b>

7/15/2014

City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08
<b>Project Name</b> Huntsville Northern Bypass - West Section
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)
<b>Scope of Work</b> Modification No. 2
<b>Project Length</b> 4.17
<b>C.O.H. Project Engineer</b> Bill Boggess
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.
<b>Out-of-pocket Expenses (Field Survey)</b>

PRINTING / REPRODUCTION COST					
Type of printing/reproduction	# of Sets	Sheets per Set	Total Sheets	Cost per Sheet	Total
	0	0	0	\$ 2.50	\$ -
	0	0	0	\$ 0.25	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
<b>Total Printing/Reproduction C</b>					<b>\$ -</b>

<b>Communication Cost (telephone, fax, etc.)</b>	<b>Total</b>
	\$ -

<b>Postage Cost (overnight, stamps, etc.)</b>	<b>Total</b>
	\$ -

<b>Other (provide description on next line)</b>	<b>Total</b>
Field Supplies @ \$60/Day	\$ 180.00

<b>Total Out-of-pocket Expenses</b>	<b>\$ 180.00</b>
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**Comments:**

7/15/2014

City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08			
<b>Project Name</b> Huntsville Northern Bypass - West Section			
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)			
<b>Scope of Work</b> Modification No. 2			
<b>Project Length</b>		4.17	
<b>C.O.H. Project Engineer</b> Bill Boggess			
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.			
<b>Fee Proposal (Field Survey)</b>			
<b>PERSONNEL COST</b>			
	Man-days	Daily Rate @ 8hrs/day	
Project Engineer	0.50	\$ 1,240.00	\$ 620.00
PLS	1.05	\$ 832.00	\$ 873.60
Survey Crew	3.00	\$ 1,280.00	\$ 3,840.00
Engineer Tech. / CADD	0.50	\$ 640.00	\$ 320.00
Clerical	0.25	\$ 536.00	\$ 134.00
<b>Sub-Total</b>			<b>\$ 5,787.60</b>
<b>SUB-CONSULTANTS (attach man-day &amp; fee FROM each sub-consultant; show total fee for each here)</b>			
		\$	-
		\$	-
		\$	-
		\$	-
		\$	-
		\$	-
Subconsultant Administration Expense (5%)			\$ -
<b>Sub-Total</b>			<b>\$ -</b>
<b>TOTAL LABOR</b>			<b>\$ 5,787.60</b>





7/15/2014

City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08
<b>Project Name</b> Huntsville Northern Bypass - West Section
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)
<b>Scope of Work</b> Modification No. 2
<b>Project Length</b> 4.17
<b>C.O.H. Project Engineer</b> Bill Boggess
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.

ROW Map, Tract Sketches and Deeds	Engineer		
	PLS	Survey Crew	Tech. / CADD
<b>Estimated number of takings=</b> 12	ESTIMATED MAN-DAYS		
<b>Task A: Right-of-Way Map</b>	0.10	0.00	3.75
<b>Task B: Tract Sketches</b>	2.00	0.00	3.50
<b>Task C: Deeds</b>	2.00	0.00	3.50
<b>Task D: Right-of-Way/Acquired Parcel Staking</b>	0.50	2.50	0.00
	0.00	0.00	0.00
<b>TOTALS</b>	<b>4.60</b>	<b>2.50</b>	<b>10.75</b>

Note: A "Taking" is any separate piece of property acquired by the C.O.H. This includes parcels, drainage easements, construction easements, etc.

7/15/2014

## City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08			
<b>Project Name</b> Huntsville Northern Bypass - West Section			
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)			
<b>Scope of Work</b> Modification No. 2			
<b>Project Length</b>		4.17	
<b>C.O.H. Project Engineer</b> Bill Boggess			
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.			
<b>Fee Proposal (ROW Map, Tract Sketches &amp; Deeds)</b>			
<b>PERSONNEL COST</b>			
	Man-days	Daily Rate @ 8hrs/day	
Project Engineer	1.50	\$ 1,240.00	\$ 1,860.00
PLS	4.60	\$ 832.00	\$ 3,827.20
Survey Crew	2.50	\$ 1,280.00	\$ 3,200.00
Engineer Tech. / CADD	10.75	\$ 640.00	\$ 6,880.00
Clerical	0.50	\$ 536.00	\$ 268.00
		<b>Sub-Total</b>	<b>\$ 16,035.20</b>
<b>SUB-CONSULTANTS (attach man-day &amp; fee FROM each sub-consultant; show total fee for each here)</b>			
		\$	-
		\$	-
		\$	-
Subconsultant Administration Expense (5%)		\$	-
		<b>Sub-Total</b>	<b>\$ -</b>
		<b>TOTAL LABOR</b>	<b>\$ 16,035.20</b>

7/15/2014

City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08
<b>Project Name</b> Huntsville Northern Bypass - West Section
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)
<b>Scope of Work</b> Modification No. 2
<b>Project Length</b> 4.17
<b>C.O.H. Project Engineer</b> Bill Boggess
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.
<b>Out-of-pocket Expenses (ROW Map, Tract Sketches &amp; Deeds)</b>

PRINTING / REPRODUCTION COST					
Type of printing/reproduction	# of Sets	Sheets per Set	Total Sheets	Cost per Sheet	Total
Tract Maps	1	28	28	\$ 0.15	\$ 4.20
Legals	1	56	56	\$ 0.15	\$ 8.40
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
<b>Total Printing/Reproduction C</b>					<b>\$ 12.60</b>

<b>Communication Cost (telephone, fax, etc.)</b>	<b>Total</b>
	\$ -

<b>Postage Cost (overnight, stamps, etc.)</b>	<b>Total</b>
No Cost (COH will distribute)	\$ -

<b>Other (provide description on next line)</b>	<b>Total</b>
Field Supplies @ \$60/Day	\$ 150.00

<b>Total Out-of-pocket Expen:</b>	<b>\$ 162.60</b>
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**Comments:**

7/15/2014

## City of Huntsville Engineering Division

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<b>Project No.</b> 65-10-RD08								
<b>Project Name</b> Huntsville Northern Bypass - West Section								
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)								
<b>Scope of Work</b> Modification No. 2								
<b>Project Length</b> 4.17								
<b>C.O.H. Project Engineer</b> Bill Boggess								
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.								
<b>ROADWAY PLANS</b>		<b>ESTIMATED MAN-DAYS</b>						
		# OF SHEETS	Project Engineer		Design Engineer		Engineer Tech. / CADD	
			DAYS/SHEET	TOTAL	DAYS/SHEET	TOTAL	DAYS/SHEET	TOTAL
<b>SHEET TITLE</b>								
TITLE SHEET		0.00	0.00	0.00	0.00	0.00	0.00	
INDEX SHEET		0.00	0.00	0.00	0.00	0.00	0.00	
PROJECT NOTE SHEET		0.00	0.00	0.00	0.00	0.00	0.00	
PLANS LEGEND		0.00	0.00	0.00	0.00	0.00	0.00	
<b>TYPICAL SECTIONS</b>								
Main Roadway		0.00	0.00	0.00	0.00	0.00	0.00	
Cross Roads		0.00	0.00	0.00	0.00	0.00	0.00	
Detour & Misc.		0.00	0.00	0.00	0.00	0.00	0.00	
Ramps		0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	
<b>SUMMARY SHEET</b>								
Main Summary		0.00	0.00	0.00	0.00	0.00	0.00	
<b>SUMMARY BOX SHEETS</b>								
Roadway Pipe		0.00	0.00	0.00	0.00	0.00	0.00	
Culvert Extension, New Culvert		0.00	0.00	0.00	0.00	0.00	0.00	
Bridge Culvert Extension, New Bridge Culvert		0.00	0.00	0.00	0.00	0.00	0.00	
Guardrail		0.00	0.00	0.00	0.00	0.00	0.00	
Slope Paving (Under Bridges)		0.00	0.00	0.00	0.00	0.00	0.00	
Side Drain Pipe		0.00	0.00	0.00	0.00	0.00	0.00	
Signing		0.00	0.00	0.00	0.00	0.00	0.00	
Base & Pavement		0.00	0.00	0.00	0.00	0.00	0.00	
Bridge		0.00	0.00	0.00	0.00	0.00	0.00	
Striping & Pavement Markings		0.00	0.00	0.00	0.00	0.00	0.00	
Curb & Gutter		0.00	0.00	0.00	0.00	0.00	0.00	
Bridge End Slabs		0.00	0.00	0.00	0.00	0.00	0.00	
Roadway Lighting		0.00	0.00	0.00	0.00	0.00	0.00	
Sidewalk		0.00	0.00	0.00	0.00	0.00	0.00	
Slope Paving (Ditches)		0.00	0.00	0.00	0.00	0.00	0.00	
Ditch Summary		0.00	0.00	0.00	0.00	0.00	0.00	
Concrete Safety Barrier		0.00	0.00	0.00	0.00	0.00	0.00	
Retaining Wall		0.00	0.00	0.00	0.00	0.00	0.00	
Misc. Boxes		0.00	0.00	0.00	0.00	0.00	0.00	
Erosion Control		0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	



7/15/2014

City of Huntsville Engineering Division

4:29 PM

ROADWAY PLANS  SHEET TITLE	# OF SHEETS	ESTIMATED MAN-DAYS					
		Project Engineer		Design Engineer		Engineer Tech. / CADD	
		DAYS/SHEET	TOTAL	DAYS/SHEET	TOTAL	DAYS/SHEET	TOTAL
<b>EROSION CONTROL</b>							
Erosion Control Layout	39.00	0.05	1.95	0.10	3.90	0.30	11.70
Erosion Control Details	2.00	0.05	0.10	0.10	0.20	0.30	0.60
<b>ROADWAY CROSS SECTIONS</b>							
Main Roadway	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crossroads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Earthwork Balancing	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SUB-TOTAL</b>	41.00		2.05		4.10		12.30
<b>REVIEW MEETINGS</b>							
Design Criteria/Kickoff			0.00		0.00		0.00
30% Review			0.00		0.00		0.00
60% Review			0.00		0.00		0.00
90% Review			0.00		0.00		0.00
<b>Stormwater Permits</b>			0.00		0.00		0.00
<b>Drainage Report</b>			0.00		0.00		0.00
<b>Cost Estimates</b>			0.00		0.00		0.00
<b>Design Hearing</b>			0.00		0.00		0.00
			0.00		0.00		0.00
			0.00		0.00		0.00
<b>SUB-TOTAL</b>			0.00		0.00		0.00
<b>TOTAL MAN-DAYS</b>			2.05		4.10		12.30

7/15/2014

## City of Huntsville Engineering Division

4:29 PM

<b>Project No.</b> 65-10-RD08			
<b>Project Name</b> Huntsville Northern Bypass - West Section			
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)			
<b>Scope of Work</b> Modification No. 2			
<b>Project Length</b>		4.17	
<b>C.O.H. Project Engineer</b> Bill Boggess			
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.			
<b>Fee Proposal (Roadway Plans)</b>			
<b>PERSONNEL COST</b>			
	Man-days	Daily Rate @ 8hrs/day	
Project Engineer	2.05	\$ 1,240.00	\$ 2,542.00
Design Engineer	4.10	\$ 960.00	\$ 3,936.00
Engineer Tech. / CADD	12.30	\$ 640.00	\$ 7,872.00
Clerical	1.00	\$ 536.00	\$ 536.00
		<b>Sub-Total</b>	<b>\$ 14,886.00</b>
<b>SUB-CONSULTANTS (attach man-day &amp; fee FROM each sub-consultant; show total fee for each here)</b>			
S&ME (Geotech)		\$	37,205.80
S&ME (Permitting)		\$	3,000.00
		\$	-
Subconsultant Administration Expense (5%)		\$	2,010.29
		<b>Sub-Total</b>	<b>\$ 42,216.09</b>
		<b>TOTAL LABOR</b>	<b>\$ 57,102.09</b>

7/15/2014

City of Huntsville Engineering Division

4:29 PM

<b>Project No.</b> 65-10-RD08
<b>Project Name</b> Huntsville Northern Bypass - West Section
<b>Description</b> From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)
<b>Scope of Work</b> Modification No. 2
<b>Project Length</b> 4.17
<b>C.O.H. Project Engineer</b> Bill Boggess
<b>Engineering Consultant</b> Barge, Waggoner, Sumner and Cannon, Inc.
<b>Out-of-pocket Expenses (Roadway Plans)</b>

PRINTING / REPRODUCTION COST					
Type of printing/reproduction	# of Sets	Sheets per Set	Total Sheets	Cost per Sheet	Total
Full Size Prints	20	41	820	\$ 0.90	\$ 738.00
1/2 Size Prints	75	41	3075	\$ 0.23	\$ 707.25
Mylars	1	41	41	\$ 10.50	\$ 430.50
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
	0	0	0	\$ -	\$ -
<b>Total Printing/Reproduction C</b>					<b>\$ 1,875.75</b>

<b>Communication Cost (telephone, fax, etc.)</b>	<b>Total</b>
	\$ -

<b>Postage Cost (overnight, stamps, etc.)</b>	<b>Total</b>
	\$ -

<b>Other (provide description on next line)</b>	<b>Total</b>
	\$ -

**Total Out-of-pocket Expenses \$ 1,875.75**

**Comments:**



June 9, 2014

Barge Waggoner Sumner & Cannon, Inc.  
200 Clinton Avenue, Suite 800  
Huntsville, Alabama 35801

Attention: Mr. Jack Kimbrough, P.E.

**Subject: Proposal for Geotechnical Engineering Services**  
Huntsville Northern Bypass  
From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)  
Huntsville, Madison County, Alabama  
S&ME Proposal Number: 11-0014CO-1

Dear Mr. Kimbrough:

S&ME, Inc. (S&ME) is pleased to submit this change order to our contract to provide Geotechnical Engineering Services for the approximately 3.4 mile extension of the Huntsville Northern Bypass. S&ME Proposal 11-0014, dated January 24, 2011, was authorized via a Subagreement for Professional Services between Barge Waggoner Sumner and Cannon, Inc. (BWSC) and S&ME dated May 3, 2011. This Change Order outlines the revisions made to our scope and fees in order to address changes in Alabama Department of Transportation (ALDOT) procedures, alignment design, and project limits.

## **PROJECT INFORMATION**

Project information was provided by Mr. Jack Kimbrough of BWSC to Ms. Sarah Yeldell and Mr. Jeffrey Pepper of S&ME on August 30, 2010. Our original proposal was based on preliminary layouts of the proposed extension of the Huntsville Northern Bypass. We requested that we be given the opportunity to revise our proposal once the plans were 30 percent complete.

On April 1, 2014, updated 30 percent plans were provided by Mr. Kimbrough to Mr. Pepper. Based on our review of the plans, it appears the alignment was shifted slightly, and project limits have been expanded to include improvements to Memorial Parkway and surface streets. Additional stream crossings which will require structures were also included in the project. We anticipate rock coring techniques will be required at three locations along the revised alignment.

## CHANGES IN SCOPE OF SERVICES

Our work will be performed in general accordance with the ALDOT Bureau of Materials and Tests Procedures 390 and 398. Our work will include the following:

- Our proposed boring location plan was presented to ALDOT and has been approved after some modifications. The following table summarizes our proposed boring locations and changes from our original boring location plan.

Location	2011		Change in Number of Borings	Change in Boring Footage	2014	
	Number of Borings	Boring Footage			Number of Borings	Boring Footage
Huntsville Northern Bypass	173	1,706 ft	-18	159 ft	155	1,865 ft
Memorial Parkway	--	--	18	180 ft	18	180 ft
Bob Wade Connector	--	--	2	20 ft	2	20 ft
Countess Connector	--	--	3	35 ft	3	35 ft
Bob Wade/Countess	--	--	2	20 ft	2	20 ft
Northgate Drive Connector	--	--	1	10 ft	1	10 ft
Bridge Culverts	6	90 ft	18	330 ft	24	420 ft
Signal Poles	12	300 ft	--	60 ft	12	360 ft
<b>Total</b>	<b>191</b>	<b>2,096 ft</b>	<b>26</b>	<b>814 ft</b>	<b>217</b>	<b>2,910 ft</b>

- Based on revisions to ALDOT Procedures 390 and 398 and project changes, significantly more laboratory tests are required and have been added to our proposed sampling plan.

## CHANGE IN FEES

S&ME proposes to provide the additional services outlined in this change order for a fee of **\$37,205.80**. The budget for our Geotechnical Engineering Services, including the original scope of services outlined in our Proposal No. 11-0014, dated January 24, 2010, will be \$144,822.30.

## AUTHORIZATION

These services are proposed to be conducted as a change to the existing contract with S&ME, which was outlined in Proposal Number 11-0014, dated January 24, 2014, and authorized by BWSC on May 3, 2013.

**CLOSING**

This proposal is solely intended for the services described in the Changes to Scope of Services. The Scope of Services may not be modified or amended, unless the changes are first agreed to in writing by the Client and S&ME. Use of this proposal and corresponding final report is limited to the above-referenced project and client. No other use is authorized by S&ME, Inc.

S&ME, Inc. appreciates the opportunity to offer our services to BWSC for this project. If you should have questions concerning this proposal, or if additional information is required, please contact us.

Respectfully submitted,

**S&ME, Inc.**



Rachel T. Finch, PE  
Project Engineer



Jeffrey C. Pepper, PE  
Senior Geotechnical Engineer

Attachment: Sampling Plan and Fee Estimate - Revision 1  
Man-Days Table

SAMPLING PLAN  
 MATERIALS REPORT, SLOPE STUDY, AND FOUNDATION REPORT  
 Huntsville Northern Bypass  
 Huntsville, Madison County, Alabama  
 ALDOT PROJECT No. STPH-UR14

BORING NUMBER	Location	Station	Off Set	Soil Boring Depth	Cut/Fill	REMARKS	Topsoil	Rock Core	Soil Class.	Moist.	U.D.	Bulk	Res. Modulus	Std. Proct.	Tri-axial CU/PP	pH	Sulfates	Chlorides	Resistivity	UC/SOIL	Consol.	Piez. (ft.)	Rock qu
1	WBFR	204	120L	10	Cut				2	2													
2	EBFR	204	120R	10	Cut																		
3	WBFR	206	140L	15	Fill																		
4	EBFR	206	100R	10	Fill				1	1													
5	WBFR	209	120L	15	Fill																		
6	EBFR	209	80R	15	Cut																		
7	EBFR	209	140R	20	Cut	POSSIBLE ROCK CUT		10	6	6	2	1	1	1	1							20	1
8	WBFR	211	120L	10	Fill								Between 204 and 216										
9	EBFR	211	140R	20	Cut	POSSIBLE ROCK CUT		10	2	2													
10	WBFR	213	100L	15	Fill																		
11	EBFR	213	60R	20	Cut																		
12	EBFR	213	90R	20	Cut																		
13	EBFR	213	140R	30	Cut	POSSIBLE ROCK CUT		20	6	6													
14	WBFR	216	120L	25	Fill																		
15	EBFR	216	90R	10	Cut																		
16	EBFR	216	130R	15	Cut																		
17	CULVERT	219+70	120L	25	Fill	STREAM 2																	
18	CULVERT	220+10	CL	25	Fill	STREAM 2																1	
19	CULVERT	220+70	120R	25	Fill	STREAM 2			2	7													
20	WBFR	222	100L	20	Fill																		
21	EBFR	222	90R	10	Cut																		
22	EBFR	222	130R	15	Cut																		
23	CULVERT	224+80	120L	15	Fill	STREAM 3																	
24	CULVERT	224+90	CL	15	Fill	STREAM 3																	
25	CULVERT	225+10	120R	15	Fill	STREAM 3			2	3	1											1	15
26	WBFR	228	80L	10	Fill																		
27	EBFR	228	90R	10	Cut																		
28	EBFR	228	130R	15	Fill																		
29	EBFR	229+50	130R	15	Cut																		
30	WBFR	231+50	100L	10	Cut																		
31	EBFR	231+50	90R	10	Cut																		
32	EBFR	231+50	120R	15	Cut				5	5		1	1	1									
33	WBFR	233+50	80L	10	Cut								Between 228+50 and 233+50										
34	EBFR	233+50	100R	20	Cut																		
35	WBFR	236	120L	10	Fill																		
36	EBFR	236	90R	10	Cut																		
37	EBFR	236	130R	15	Cut																		
38	WBFR	239	120L	20	Fill				2	5												1	
39	EBFR	239	70R	10	Fill																		
40	WBFR	242	120L	20	Fill																		
41	EBFR	242	60R	10	Fill																		
42	WBFR	245	100L	15	Fill																		
43	EBFR	245	80R	10	Fill																		
44	WBFR	248	80L	15	Fill				2	2													
45	EBFR	248	80R	10	Fill																		
46	CULVERT	252+50	120L	20	Fill	STREAM 4																	
47	CULVERT	251+14	CL	20	Fill	STREAM 4			2	3	1					1	1	1	1			1	20







**SAMPLING PLAN**  
**MATERIALS REPORT, SLOPE STUDY AND FOUNDATION REPORT**  
 Huntsville Northern Bypass  
 Huntsville, Madison County, Alabama  
 ALDOT PROJECT No. STPH-UR14

BORING NUMBER	Location	Station	Off Set	Soil Boring Depth	Cut/Fill	REMARKS	Topsail	Rock Core	Soil Class.	Moist.	U.D.	Bulk	Res. Modulus	Std. Proct.	Tri-axial CU/PP	pH	Sulfates	Chlorides	Resistivity	UC/SOIL	Consol	Plaz. (ft.)	Rock qu
204	BW-CR	69	30L	10	Cut				3	3													
205	BW-CR	75	20R	10	Cut																		
206	MT. LEBANON	SIGNAL POLE		30					1	5	1									1			
207	MT. LEBANON	SIGNAL POLE		30																			
208	MT. LEBANON	SIGNAL POLE		30																			
209	MT. LEBANON	SIGNAL POLE		30					1	5	1												
210	@MEM PKY	SIGNAL POLE		30					1	5	1												
211	@MEM PKY	SIGNAL POLE		30																			
212	@MEM PKY	SIGNAL POLE		30																			
213	@MEM PKY	SIGNAL POLE		30					1	5	1												
214	@MP & BW	SIGNAL POLE		30					1	5	1												
215	@MP & BW	SIGNAL POLE		30																			
216	@MP & BW	SIGNAL POLE		30																			
217	@MP & BW	SIGNAL POLE		30					1	5	1												
217		TOTAL		2910			17	40	99	146	14	9	9	9	1	5	5	5	5	6	8	120	3
	Notes	Topsoil test every 5000 cubic yds																					
Abbreviations	WBFR	West Bound Frontage Road																					
	EBFR	East Bound Frontage Road																					
	MPSBL	Memorial Parkway South Bound Land																					
	MPNBL	Memorial Parkway North Bound Land																					
	NGDC	Northgate Drive Connector																					
	BWC	Bob Wade Connector																					
	CC	Countess Connector																					
	BW-CR	Bob Wade - Countess Road																					
	@MP	Signal at Northern Bypass and Memorial Parkway																					
	@MP & BW	Signal at Memorial and Bob Wade																					

Proposed Budget  
Huntsville Northern Bypass-  
From 1.2 Miles East of CR-86 to SR-1  
Huntsville, Madison County, Alabama

ITEM	Quantity	Unit	UNIT RATE	TOTAL
<b>Project Planning &amp; Coordination</b>				
Project Engineer (per hr)	60	Hour	\$ 105.00	\$ 6,300.00
Mileage (per mi)		Mile	\$ 0.50	\$ -
<b>Project Planning Subtotal</b>				<b>\$ 6,300.00</b>
<b>Surveying / Boring Stake Out</b>				
Surveying	1	Lump Sum	\$ 12,757.50	\$ 12,757.50
Mileage (per mi)	0	Mile	\$ 0.55	\$ -
Per Diem (per man day)	0	Day	\$ 75.00	\$ -
<b>Surveying Subtotal</b>				<b>\$ 12,757.50</b>
<b>Drilling Program</b>				
Mobilization / Demob. (per mi)	2	Each	\$ 300.00	\$ 600.00
Soil Testing (SPT) (per ft)	2910	Ft.	\$ 10.00	\$ 29,100.00
Rock Core (NQ) (per ft)	40	Ft.	\$ 35.30	\$ 1,412.00
Sample Jars (each)	1233	Each	\$ 1.60	\$ 1,972.80
Thin wall tubes (each)	20	Each	\$ 53.00	\$ 1,060.00
Water Truck (per day)	3	Day	\$ 145.00	\$ 435.00
Piezometers (per ft)	120	Ft.	\$ 15.00	\$ 1,800.00
Temporary Casing	55	Ft.	\$ 6.00	\$ 330.00
Rock Core Boxes	4	Each	\$ 12.00	\$ 48.00
Traffic Control (per day)	2	Day	\$ 1,500.00	\$ 3,000.00
Dozer Rental	3	Day	\$ 1,500	\$ 4,500.00
Difficult moving/set casing/etc.	16	Hour	\$ 150.00	\$ 2,400.00
Seeding, strawbales, cleanup	1	Each	\$ 500.00	\$ 500.00
<b>Drilling Program Subtotal</b>				<b>\$ 47,157.80</b>
<b>Field Engineering</b>				
Staff Engineer (per hour)	340	Hour	\$ 75.00	\$ 25,500.00
Engineering Technician (per hr)	40	Hour	\$ 37.00	\$ 1,480.00
Senior Engineer (P4) (per hr)	32	Hour	\$ 135.00	\$ 4,320.00
Per Diem (per man day)		Day	\$ 75.00	\$ -
Mileage (per mi)		Mile	\$ 0.50	\$ -
<b>Field Engineering Subtotal</b>				<b>\$ 31,300.00</b>

Proposed Budget  
Huntsville Northern Bypass-  
From 1.2 Miles East of CR-86 to SR-1  
Huntsville, Madison County, Alabama

ITEM	Quantity	Unit	UNIT RATE	TOTAL
<b>Laboratory Testing</b>				
Soil Classification with hydrometer	99	Each	\$ 150.00	\$ 14,850.00
Natural Moisture (each)	146	Each	\$ 7.00	\$ 1,022.00
pH (each)	5	Each	\$ 12.00	\$ 60.00
Sulfates (each)	5	Each	\$ 95.00	\$ 475.00
Chlorides (each)	5	Each	\$ 95.00	\$ 475.00
Resistivity (each)	5	Each	\$ 65.00	\$ 325.00
Standard Proctor (each)	9	Each	\$ 110.00	\$ 990.00
Triaxial Test CU (each)	1	Each	\$ 750.00	\$ 750.00
Unconfined Compression - Soil	6	Each	\$ 75.00	\$ 450.00
Unconfined Compression - Rock	3	Each	\$ 75.00	\$ 225.00
Consolidation (each)	8	Each	\$ 400.00	\$ 3,200.00
Resilient Modulus (MR)	9	Each	\$ 350.00	\$ 3,150.00
Organics Content Tests	17	Each	\$ 50.00	\$ 850.00
<b>Laboratory Testing Subtotal</b>				<b>\$ 26,822.00</b>
<b>Report Generation</b>				
Staff Engineer (per hr)	80	Hour	\$ 75.00	\$ 6,000.00
Project Engineer (per hr)	60	Hour	\$ 105.00	\$ 6,300.00
Senior Engineer (P4) (per hr)	24	Hour	\$ 135.00	\$ 3,240.00
Draftsman (per hr)	60	Hour	\$ 53.00	\$ 3,180.00
Computer Processor (per hr)	24	Hour	\$ 25.00	\$ 600.00
Photographs (each)	6	Hour	\$ 2.50	\$ 15.00
Reproduction of Report (per page)	3200	Each	\$ 0.25	\$ 800.00
Mylar Drill Logs (per page)	50	Each	\$ 7.00	\$ 350.00
<b>Report Generation Subtotal</b>				<b>\$ 20,485.00</b>
<b>Total Budget Estimate</b>				<b>\$ 144,822.30</b>

**MAN DAYS ESTIMATE FOR  
SOIL SURVEY, AND FOUNDATION REPORT  
HUNTSVILLE NORTHERN BYPASS -  
FROM 1.2 MILES EAST OF CR-86 (PULASKI PIKE) TO SR-1(US-431)  
HUNTSVILLE, MADISON COUNTY, ALABAMA**

TASK	MAN DAYS					
	STAFF ENGINEER	PROJECT ENGINEER	SENIOR ENGINEER	ENGINEERING TECHNICIAN	DRAFTSMAN	COMPUTER PROCESSOR
Project Coordination		7.5				
Drilling, Logging, and Hand Augers	42.5		4	5		
Analysis, and Materials Report Preparation	10	7.5	3		7.5	3
<b>TOTALS</b>	<b>52.5</b>	<b>15</b>	<b>7</b>	<b>5</b>	<b>7.5</b>	<b>3</b>



June 6, 2014

Barge Waggoner Sumner & Cannon, Inc.  
200 Clinton Avenue, Suite 800  
Huntsville, Alabama 35801

Attention: Mr. Jack Kimbrough, P.E.

**Reference: Change Order 1 - Jurisdictional Waters Permitting**  
Huntsville Northern Bypass  
From 1.2 Miles East of CR-86 (Pulaski Pike) to SR-1 (US-431)  
Huntsville, Madison County, Alabama  
S&ME Proposal No. 11-0027CO-1

Dear Mr. Kimbrough,

S&ME, Inc. (S&ME) appreciates the opportunity to submit this change order for providing Environmental Consulting Services to include state and federal permitting of the proposed impacts to jurisdictional waters associated with the above-referenced project. This change order summarizes our understanding of the property to be evaluated, proposed scope of services, fee, and schedule.

## **PROJECT DESCRIPTION**

On May 3, 2013, Proposal Number 11-0027 dated February 2, 2011 was approved by Mr. Harry M. Wilson authorizing S&ME to prepare the necessary documents for state and federal permitting for five stream crossings with an anticipated total length of impact to be 1,600 linear feet. S&ME will complete those services concurrently with those described in this change order. On May 7, 2014, Mr. Jack Kimbrough of BWSC met with Mr. Charles Olige of S&ME to discuss changes in the project. Mr. Kimbrough requested a proposal for a preparing and submitting the necessary documents relevant to the state and federal permitting for an additional five stream crossings associated with the above-referenced project.

We understand that the anticipated impacts to jurisdictional waters have been delineated by AECOM, Inc. S&ME was provided a copy of the Approved and Preliminary Jurisdictional Determination issued by the United States Army Corps of Engineers on June 22, 2012 for jurisdictional waters and an isolated water within the project area. Based on the reviewed documents and proposed plans, we have estimated the total length of stream impact to be approximately 5,800 linear feet.

Additionally, it is our understanding that an updated Environmental Assessment has been performed and will be provided to S&ME prior to initiation of our services.

Please note that this estimate of impacts is based on the anticipated alignment provided by Mr. Kimbrough. Our scope of services and fee assume that impacts to jurisdictional waters will be limited to stream crossings. This proposal addresses the change in proposed plans and the additional 5 stream crossings.

## **SCOPE OF SERVICE**

### **Permitting Services**

S&ME will prepare and submit the necessary permit applications and supporting documents to the Alabama Department of Environmental Management (ADEM) and USACE. Although not anticipated, it is possible that the Tennessee Valley Authority (TVA) may take jurisdiction over the stream impacts, and in doing so may require a Section 26A permit for the impacts. We assume that concurrence with the project has or will be obtained from necessary agencies including; the TVA, ADEM, United States Fish and Wildlife Service (USFWS), and the State Historic Preservation Office (SHPO) in conjunction with the updated Environmental Assessment. We will require copies of the concurrence documentation for the Individual permit application. Obtaining these concurrence letters is not part of the scope of this change order.

The Individual permit application will include a narrative discussion of the existing site conditions, proposed impacts, and proposed mitigation. The application will be based on information collected by S&ME, additional research, and information provided by you or other designated parties. Following coordination with the applicant, S&ME will submit the necessary written documentation to support the permit application, which includes application drawings, surveys, and details in an 8.5" x 11" format for submittal to the USACE. It will be the responsibility of the client or the client's chosen representative to prepare site plans and construction drawings as required by the USACE and supply them to S&ME to be included in the application package. The client, or other party designated by the client, will be responsible for providing S&ME with pertinent information regarding the background and necessity of the project. S&ME will discuss avoidance and minimization efforts with you to incorporate into the supporting permit documents.

It should be noted modifications to the Individual permit application may be required. S&ME will work with BWSC to address the regulatory issues that may arise during the permitting process. In response to the public notice and permit review, the regulatory agencies may request changes or supplemental information beyond the scope of work described above. S&ME will provide consulting services to address the regulatory response on a time and materials basis in accordance with the attached fee schedule. If a specific task is requested by the regulatory agencies, beyond the regulatory negotiations included in the scope of services and budgeted time described herein, S&ME will submit a change order describing the additional scope of work and the associated costs.

Federal and state agencies, including the USFWS, SHPO, and ADEM, will review the Section 404 Individual permit application during the 30-day public notice period. This public notice serves as the applicant's request for water quality certification from the ADEM. The ADEM will

contact S&ME on behalf of the applicant to request the required processing fee (which is not included in the budget of these services) and, if needed, additional technical information to complete a water quality review. The ADEM certification may require special conditions to be included as conditions of the USACE Section 404 permit. Please note that ADEM can determine there is not reasonable assurance that a project can be conducted in a manner that will be protective of water quality, and as a result, the certification could be denied. In this case, the USACE is unable to issue the Section 404 permit.

Although S&ME cannot guarantee that a permit will be issued by the USACE, S&ME has been successful in permitting similar projects. Approval from the regulatory agency may require modifications to the permit application. Once the permit application is submitted, S&ME will contact the project manager and track the permitting progress.

S&ME requests that you contact S&ME immediately should the site plan be altered after the permit application has been submitted so that the permit application can be revised and resubmitted. It should be noted that alterations to the site plan may delay the permit processing time. Our budget does not include time for revisions to the permit applications and resubmittal of applications due to site plan alterations.

This scope of services includes two site meetings with the regulatory project managers and two project team meetings beyond the scope of the original proposal.

### **Mitigation Plan**

The compensatory mitigation plan will outline how the impacts to jurisdictional waters will be offset. Based on the current compensatory mitigation rules, we understand you anticipate purchasing credits from a mitigation bank. Under this scope of work, it is assumed this form of mitigation will be acceptable to the regulatory agencies. This scope includes S&ME providing the necessary coordination for the credit purchasing; however, BWSC or the applicant will incur the cost of the mitigation credits. This cost can not be determined at this time. If other possible mitigation options must be considered, we will discuss them with you and, if desired, provide a change order for additional services.

### **LIMITATIONS**

Without attempting to be a complete list of items excluded from this Proposal, the following are not part of this scope of services:

- Civil surveying
- Environmental sampling and analysis
- Geotechnical testing, or engineering services for traditional site infrastructure (roads, sewers, water, etc.)
- Preparation of a Stormwater Pollution Prevention Plan
- Bid documents preparation, bidding support, evaluation, or contract administration,
- Stream relocation construction observation
- Construction observation and testing
- Flood modeling and or “No Rise” Certification

- Post-construction FEMA certification
- Observation of stormwater compliance
- Payment of Mitigation Costs
- Section 7 compliance including preliminary habitat survey, detailed individual species surveys, USFWS coordination, species collection
- Section 106 compliance
- Compliance with the National Historic Preservation Act (NHPA) or the National Environmental Policy Act (NEPA)

S&ME is available to provide these services. A change order will be prepared for your approval in the event any of these services become necessary.

This project is designed to prepare permit applications based on information acquired during our site visits as well as information provided by the applicant and you. If unauthorized activities occur at the project site prior to the issuance of necessary permits, S&ME cannot be held liable if the unauthorized activities result in a violation and associated fines or penalties are levied by the USACE.

## **SCHEDULE AND DELIVERABLES**

We understand that this project will not be authorized immediately. Based on our projected schedule we are in a position to initiate work on this project within five business days of receipt of notice to proceed. We can prepare the permit application package in approximately 15 business days following receipt of the final project plans and required documents. We will rely on BWSC or the applicant to provide EA documents and necessary drawings and surveys depicting the proposed plans. Although not recommended, we can submit the applications based on conceptual plans (and submit construction plans as they are developed) in order to get the process underway. The schedule of the submittal of the final permit application will be contingent upon you signing the application form and returning to S&ME in a timely manner.

Response to questions and/or additional guidance by the agencies can require several months to complete. Schedules for office or onsite meetings are decided by the agencies. Please note that the USACE advertises that Individual Permits require a minimum of 90 days from receipt of a complete application.

A PDF copy of the permit application will be emailed to the client. Upon request, hard copies will be mailed to the Client.

## **BUDGET**

S&ME proposes to provide the additional services outlined in this change order for a **lump sum amount of \$3,000** in addition to the \$8,500 fee included as part of our original Proposal Number 11-0027 dated February 2, 2011. Our total proposed fee for this scope of services will be \$11,500.

This **does not include** the fee for the water quality certification from ADEM or any fees required by TVA, should they determine that a Section 26A permit is required. There is no fee for the Section

404 permit application. S&ME assumes these regulatory fees will be paid directly by the applicant. For the purpose of this proposal, S&ME assumes that any permit fees beyond those identified herein will also be paid directly by the applicant. Should an additional scope of work be required, beyond the services defined herein, we will contact the applicant to discuss our recommendations and receive your authorization before proceeding.

The technical and pricing information contained in this proposal or in any correspondence submitted by S&ME is considered confidential and proprietary and should not be released or otherwise be made available to any third party without express written consent of S&ME. This quotation is valid for a period of 90 days.

## **AUTHORIZATION**

These services are proposed to be conducted as a change to the existing contract with S&ME, which was Proposal Number 11-0027 dated February 2, 2011, authorized by you on May 3, 2013.

## **CLOSING**

This proposal is solely intended for the services described in the Scope of Services. The Scope of Services may not be modified or amended, unless the changes are first agreed to in writing by the Client and S&ME. Use of this proposal and corresponding final report is limited to the above-referenced project and client. No other use is authorized by S&ME.

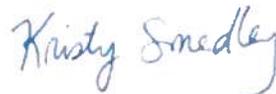
S&ME appreciates the opportunity to offer our services to the BWSC for this project. If you should have questions concerning this proposal, or if additional information is required, please contact us.

Respectfully submitted,

**S&ME, Inc.**



Christa L. Collins  
Project Scientist



Kristy Smedley  
Senior Scientist

