COUNTY DEPARTMENT AGENDA REQUEST

Department:	Engineering / SPLOST	Presenter(s):	Phil Mallon
Meeting Date:	Thursday, May 26, 2011	Type of Request:	New Business

Wording for the Agenda:

Consideration of staff's recommendation to award engineering and design services for the proposed Veteran's Parkway Bridge (WFB-2) over Whitewater Creek to Heath & Lineback Engineers, Inc., in an amount not to excced $133,238.

Background/History/Details:

The West Fayetteville Bypass, Phase 2 (Special Purpose Local Option Sales Tax project No. R-5) includes the design and construction of a bridge over Whitewater Creek, located approximately 1/4 mile north of existing Eastin Road.

Two cost estimates were requested for this project, one from the Mallett Consulting Inc., the Project Engineer for the roadway design of WFB Phase 2, and one from Heath & Lineback Engineers (H&L), who is completing a bridge replacement design on Westbridge Road (SPLOST project No. B-2). Although both companies are capable of performing the project, staff recommends award to H&L based on the quality of the work submitted for the Westbridge Road project, their demonstrated adherence to schedule and budget, the company's extensive experience with similar bridge projects, and their cost estimate which is nominally less than the other estimate.

To minimize project cost, staff expects that the surveying and bridge foundation investigation work necessary to complete the design will be done using the subcontractors already working on the roadway alignment portion of the project. The proposed cost estimates (see attached), however, are based on different companies performing this work. This conservative approach is used in case any conflicts arise while coordinating the work between the roadway and bridge projects. Identical costs for the surveying and foundation investigation were added to both estimates to ensure the numbers didn't bias the award recommendation.

What action are you seeking from the Board of Commissioners?

Approval of staff's recommendation to award engineering and design services for the proposed Veteran's Parkway Bridge (WFB-2) over Whitewater Creek to Heath & Lineback Engineers, Inc for a not-to-exceed amount of $133,238, and to authorize the Chairman to sign the contract contingent upon the County Attorney's review and approval.

If this item requires funding, please describe:

Funding is available for this project from the Transportation SPLOST 321 fund, Project Number R-5.

Has this issue come before the Commissioners in the past?	No	If so, when?	na
Do you need audio-visual for the presentation?	No	Back-up Material Submitted?	Yes

STAFF USE ONLY

Approved by Finance	Yes	Reviewed by Legal	Yes
Approved by Purchasing	Not Applicable	Approved by County Clerk	Yes
Administrator's Approval	Yes		

Staff Notes:

Fayette County Engineering Department / Transportation SPLOST

WFB 2 (R-5) Cost Estimates for Bridge Design over Whitewater Creek

	H&L	Mallett
1a. Bridge Hydraulic Analysis	$20,328	$6,500
1b. Bridge Preliminary Layout	$4,642	$7,500
2 . Foundation Design (Intermediate Bents Substructure)	$10,764	$11,500
3 . Structural Bridge Design	$11,124	$30,000
4 . Approach Slab Design	$360	$2,000
5 . Abutment Wall Design	$6,254	$5,000
6 . Channel Armoring	$0	$1,000
7 . ESCP Design (Within Limits of Bridge)	$1,230	$5,000
8 . Utility Hanger Details	$2,256	$500
9 . Construction Plans and Technical specs	$27,858	$10,000
10 . FEMA – CLOMR Preparation/Submittal	$7,468	$4,500
11 . FEMA – LOMR Preparation/Submittal	$3,734	$3,500
12 . Shop Drawings Review	$2,412	$1,000
15. Project Management	$0	$16,000
13. Bridge Foundation Investigation	$28,808	$28,808
14. Surveying	$6,000	$6,000
Total	$133,238	$138,808

NOTE: Project management fee is 80% of the $20,000 shown on the quote. It is discounted since the scoped excludes letting and management of construction activities.

From: Rudolph Frampton
To: Philip Mallon
Cc: Carlos Christian; William A. Krivsky
Subject: West Fayetteville Bypass Estimate
Date: Wednesday, April 20, 2011 4:08:16 PM

Dear Mr. Mallon,

As requested we have updated the cost proposal for the referenced project to include Hydraulic Sections Survey. Attached is our updated cost proposal for the referenced project.

The updated tasks list and costs are as follows:

1a. Bridge Hydraulic Analysis - $20,328.00
1b. Bridge Preliminary Layout - $4,642.00
2 . Foundation Design (Intermediate Bents Substructure) - $10,764.00
3 . Structural Bridge Design - $11,124.00
4 . Approach Slab Design - $360.00
5 . Abutment Wall Design - $6,254.00
6 . Channel Armoring - $0.00 since the channel will be protected under item 7 below.
7 . ESPC Design (Within Limits of Bridge) - $1,230.00
8 . Utility Hanger Details - $2,256.00
9 . Construction Plans and Technical specs - $27,858.00
10 . FEMA – CLOMR Preparation/Submittal - $7,468.00
11 . FEMA – LOMR Preparation/Submittal - $3,734.00
12 . Shop Drawings Review - $2,412.00
13. Bridge Foundation Investigation - $28,808.00
14. Hydraulic Sections Survey - $6,000.00

In summary, the total cost for tasks 1 through 9, 13 and 14 is $119,624.00.

If the additional services tasks 10 through 12 are required, the total cost is $133, 238.00.

Please let us know if you have any questions or comments.

Thank you.

Rudolph

Rudolph Frampton, P.E., Heath & Lineback Engineers, Inc.
2390 Canton Road, Building 200
Marietta, GA 30066-5393
Direct Line: 678.569.2469
Voice: 770.424.1668 Fax: 770.424.2907
rframpton@heath-lineback.com
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Fayette County Department of Transportation

COST PROPOSAL

Proj, No.:

Prime: **Heath & Lineback Engineers**

Date: **2-Mar-11**

Project: **West Fayetteville Bypass over Whitewater Creek**

County: **Fayette**

Fee Typ **Fee not to exceed**

				$180.00	$126.00	$120.00	$105.00	$90.00	$65.00	**$180.00**	$128.00	$128.00
				60.00	42.00	40.00	35.00	30.00	21.67	60.00	42.67	42.67

Phase	Description	Total Hours	Total Cost	Heath & Lineback ROAD	Heath & Lineback BRIDGE	United Consulting - BFI	Toole Survey Inc. - Hyd Sections		
	TOTALS ==>	**870**	**$ 133,238.00**	**$ 1,590.00**	**$ 96,840.00**	**$ 28,808.00**	**$ 6,000.00**	**$ -**	**$ -**
1	**Concept Design**		$ -	$ -	$ -	$ -			$ -
2	**Database Preparation**		$ -	$ -	$ -	$ -		$ -	$ -
3	**Preliminary Plans**	**204**	$ 24,970.00	$ -	$ 24,970.00		$ -	$ -	$ -
4	**Final Plans**	**552**	$ 94,654.00	$ 1,590.00	$ 58,256.00	$28,808.00	$ 6,000.00		
5	**Additional Services**	**114**	$ 13,614.00	$ -	$ 13,614.00	$ -	$ -	$ -	$ -

			Staff Type / Hourly Rates / Hours												
			Heath & Lineback						**Heath & Lineback**						
Phase	**Description**	**Total Hours**	Principal-in-charge	Project Manager	Senior Roadway Engineer	Roadway Engineer	Roadway Tech.	Clerical	Project Manager	Bridge Hydraulic Engineer	Senior Bridge Engineer	Bridge Engineer	Bridge Technician	CADD Technician	Clerical
			$180.00	$126.00	$120.00	$105.00	$90.00	$65.00	$180.00	$128.00	$128.00	$110.00	$95.00	$75.00	$65.00
	TOTALS ==>	**870**			**2**	**6**	**8**		**38**	**160**	**90**	**298**	**258**	**6**	**4**
1	**Concept Design**														
2	**Database Preparation**														
3	**Preliminary Plans**	**204**							10	100	20	60	10		4
4	**Final Plans**	**552**			2	6	8		28		42	238	228		
5	**Additional Services**	**114**								60	28		20	6	

Fayette County Department of Transportation

COST PROPOSAL

Proj, No.:

Prime: **Heath & Lineback Engineers**

Date: **2-Mar-11**

Project: **West Fayetteville Bypass over Whitewater Creek**

County: **Fayette**

Fee Typ **Fee not to exceed**

									$180.00	$126.00	$120.00	$105.00	$90.00	$65.00	**$180.00**	$128.00	$128.00
									60.00	42.00	40.00	35.00	30.00	21.67	60.00	42.67	42.67
			Heath & Lineback						**Heath & Lineback**								
Phase	**Description**	Total Hours	Principal-in-charge	Project Manager	Senior Roadway Engineer	Roadway Engineer	Roadway Tech.	Clerical	Project Manager	Bridge Hydraulic Engineer	Senior Bridge Engineer	Bridge Engineer	Bridge Technician	CADD Technician	Clerical	**Total Fee per Task**
1	**Preliminary Plans**	**204**							**10**	**100**	**20**	**60**	**10**		**4**	$24,970.00
1.a	Bridge Hydraulic Analysis	**162**							6	100	16	40				**$20,328.00**
1.b	Bridge Preliminary Layout (P&E)	**42**							4		4	20	10		4	**$4,642.00**
Phase	**Description**	Total Hours	Principal-in-charge	Project Manager	Senior Roadway Engineer	Roadway Engineer	Roadway Tech.	Clerical	Project Manager	Bridge Hydraulic Engineer	Senior Bridge Engineer	Bridge Engineer	Bridge Technician	CADD Technician	Clerical	
2	**Final Plans**	**552**			**2**	**6**	**8**		**28**		**42**	**238**	**228**			$59,846.00
2	Foundation Design (Intermediate Bents Substructure)	**100**							4		8	44	44			**$10,764.00**
3	Structural Bridge Design (Superstructure)	**102**							6		8	44	44			**$11,124.00**
4	Approach Slab Design (Standards/Details)	**4**					4									**$360.00**
5	Abutment Wall Design	**56**							4		8	22	22			**$6,254.00**
6	Channel Armoring															
7	ESPC Design (within limits of bridge)	**12**			2	6	4									**$1,230.00**
8	Utility Hanger Details	**20**							2		2	8	8			**$2,256.00**
9	Construction Plans & Technical Specs (Bridge)	**258**							12		16	120	110			**$27,858.00**
Phase	**Description**	Total Hours	Principal-in-charge	Project Manager	Senior Roadway Engineer	Roadway Engineer	Roadway Tech.	Clerical	Project Manager	Bridge Hydraulic Engineer	Senior Bridge Engineer	Bridge Engineer	Bridge Technician	CADD Technician	Clerical	
3	**Additional Services**	**114**								**60**	**28**		**20**	**6**		$13,614.00
10	FEMA - CLOMR Preparation/Submittal (if needed)	**60**								40	16			4		**$7,468.00**
11	FEMA - LOMR Preparation/Submittal (if needed)	**30**								20	8			2		**$3,734.00**
12	Shop Drawing Review (if desired)	**24**									4		20			**$2,412.00**

Mallett Consulting, Inc.

ENGINEERING - SURVEYING - PROJECT MANAGEMENT

101 DEVANT STREET, SUITE 804
FAYETTEVILLE, GEORGIA 30214
770-719-3333
770-719-3377 (fax)

March 11, 2011

Mr. Phil Mallon
Director - Fayette County Public Work
115 McDonough Road
Fayetteville, GA 30214

Re: Bridge over Whitewater Creek
WFB-II
Fayette County, GA

Dear Phil:

Mallett Consulting, Inc. is pleased to offer the attached Fee Proposal for Design and Project Management services for the above referenced project. We have itemized the fee summary for your convenience, however, individual fees are intended to be part of the overall fee and not 'stand alone' pricing for portions of the work.

The conditions of the services will be in accordance with our current Contract of Professional Service for Fayette County's SPLOST projects.

As discussed, fees for surveying and geotechnical services are not provided in this proposal. Fees for those services have been authorized previously.

Please feel free to call me if you need any additional information or would like to discuss this matter further.

Sincerely,
Mallett Consulting, Inc.

David Jaeger, P.E.
Project Engineer

cc: File 05110-R5B

SPLOST - West Fayetteville Bypass - Phase II, Bridge at Whitewater Creek

Proposal for Design and Preparation of Construction Plans and Specs.

	Description	Total
1	Bridge Hydraulic Analysis	$6,500.00
2	Bridge Preliminary Layout	$7,500.00
3	Foundation Design	$11,500.00
4	Structural Bridge Design	$30,000.00
5	Approach Slab Design	$2,000.00
6	Bridge Abutment Wall Design	$5,000.00
7	Channel Armoring	$1,000.00
8	ESPC Design	$5,000.00
9	Utility Hanger Details	$500.00
10	Construction Plans & Specs	$10,000.00
11	Shop Drawing Review	$1,000.00
	Sub-Total:	**$80,000.00**
12	FEMA - CLOMR (if needed)	$4,500.00
13	FEMA - LOMR (if needed)	$3,500.00
	Total Design Fee:	**$88,000.00**

Note: Individual fees are provided for breakdown of Total Fee only, and are not offered as 'stand alone' fees for a portion of the work.

14	**Project Management**	**$20,000.00**

Note: Project Management fee is independent of Design Fee.