

Jefferson County  
Board of Commissioners  
Agenda Request

**To:** Board of Commissioners  
Philip Morley, County Administrator

**From:** Frank Gifford, Public Works Director *MG (for)*

**Agenda Date:** June 20, 2011

**Subject:** Supplemental Agreement for Consultant Services with Shearer Design LLC for Willoughby Creek Bridge Repair, Upper Hoh Rd. M.P. 3.50, County Project No. XO1825, Federal Aid No. ER-0902(318)

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**Statement of Issue:** Public Works staff requests a modification of the scope of work and budget in the basic agreement with Shearer Design LLC to include additional services for Willoughby Creek Bridge Repair.

**Analysis/Strategic Goals/Pro's & Con's:** This supplement to the existing scope of work between Jefferson County and Shearer Design LLC is for construction assistance services for Willoughby Creek Bridge Repair. These services will include shop drawing review, environmental monitoring, stream stabilization construction assistance, and geotechnical engineering support.

**Fiscal Impact/Cost Benefit Analysis:** The original, and new maximum amounts payable are summarized below:

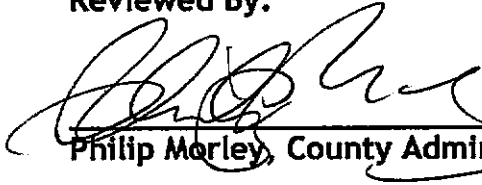
Original Maximum Amount Payable	Supplement	New Maximum Amount Payable
\$163,076.00	\$8,128.31	\$171,204.31

This work is funded at 86.5% by the Federal Highway Administration and 13.5% by the County Road Fund.

**Department Contact:** Monte Reinders, P.E., County Engineer, 385-9242.

**Recommendation:** The Board is requested to execute the Supplemental Agreement with Shearer Design LLC, and return to Public Works.

**Reviewed By:**

  
\_\_\_\_\_  
Philip Morley, County Administrator

6/6/11  
\_\_\_\_\_  
Date

<b>SUPPLEMENTAL AGREEMENT NUMBER 2</b>	<b>CONSULTANT ADDRESS/TELEPHONE:</b> Shearer Design LLC 3613 Phinney Ave. N. #A Seattle, WA 98103 Phone: (260) 781-7830
AGREEMENT NUMBER: Shearer - 2009	
PROJECT NUMBER: XO1825	<b>MAXIMUM AMOUNT PAYABLE:</b> \$171,204.76
PROJECT TITLE: Willoughby Creek Bridge Repair, Upper Hoh Rd. MP 3.5	<b>COMPLETION DATE:</b> December 31, 2011 (no change)

The County of Jefferson, State of Washington, desires to supplement the agreement entered into with Shearer Design LLC and executed on July 27, 2009 and identified as:

Shearer - 2009

All provisions in the basic agreement remain in effect except as expressly modified by this supplement.

The changes to the agreement are described as follows:

### **Section II**

Section II, SCOPE OF WORK, shall be amended by adding items of work to Task No. 9, Construction Support. The items of work that will be done under Task No. 9 are set forth in the attached Exhibit A, and by this reference made a part of this supplement.

### **Section V**

Section V, PAYMENT, shall be amended as follows:

Task No. 9, Construction Support, will have a new, maximum amount payable of \$34,929.00. Tasks 1 through 8 were completed as of May 15, 2011, and a total of \$26,800.69 remains in the contract, spread throughout these tasks. This amount will be deleted from Task No.'s 1 through

8 and added to Task No. 9. A supplement of \$8,128.31 will make up the difference. The new, total maximum amount payable will be \$171,204.76, as shown below.

Task Description	Original Maximum Amount Payable	Supplement	New Maximum Amount Payable
EXISTING TASKS:			
Preliminary Design Report	\$6,452.00	\$102.84	\$6,554.84
Bridge Repair Plans PS&E	\$13,945.00	\$508.39	\$14,453.39
Stream Stabilization PS&E	\$13,079.00	(\$7,450.38)	\$5,628.62
Geotechnical Analysis	\$13,701.00	(\$801.38)	\$12,899.62
Hydraulic Analysis	\$18,002.00	(\$7,547.88)	\$10,454.12
Environmental Services	\$49,792.00	(\$2,397.50)	\$47,394.50
Topographical Survey	\$10,620.00	(\$920.00)	\$9,700.00
Right of Way Survey	\$11,400.00	\$3,711.50	\$15,111.50
Project Administration	\$21,283.00	(\$7,204.28)	\$14,078.72
Construction Support	\$4,802.00	\$30,127.00	\$34,929.00
Total	\$163,076.00	\$8,128.31	\$171,204.31

If you concur in this supplement and agree to the changes as stated above, please sign in the appropriate spaces below and return to this office for final action.

Shearer Design, LLC  
Consultant



\_\_\_\_\_  
Consultant's Signature

6/6/11

\_\_\_\_\_  
Date

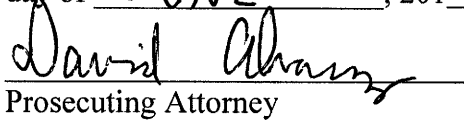
COUNTY OF JEFFERSON  
BOARD OF COMMISSIONERS

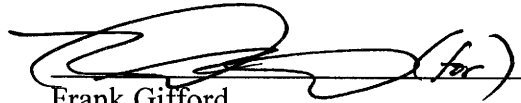
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John Austin, Chairman

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Phil Johnson, Member

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David W. Sullivan, Member

Approved as to form only this 2<sup>nd</sup>  
day of JUNE, 2011.

  
\_\_\_\_\_  
Prosecuting Attorney

  
\_\_\_\_\_  
Frank Gifford  
Public Works Director

## **EXHIBIT A**

### **SUPPLEMENT NO. 2 SCOPE OF WORK WILLOUGHBY CREEK BRIDGE REPAIR**

#### **INTRODUCTION**

This supplement provides for additional professional services necessary to provide support during construction. The additional effort is described per major task category below.

#### **Task 1: Shop Drawing Review & RFI support**

This Task will include up to three site visits, technical assistance, RFI responses (request for information) and shop drawing review as required during repair of the bridge. Jefferson County will provide a full time inspector for the project and Shearer Design will be in a supportive role providing:

- Pre-construction meeting
- Shop drawing review (Sheet pile ,wale system )
- RFI correspondence
- Materials review
- Traffic detour review
- Field Inspection at critical points (Pile driving ,wale assembly, or final punch list)

#### **Task 2 Environmental Monitoring**

This task will be completed by a sub-consultant to Shearer Design, Widener & Associates. The general focus of this task will be monitoring the stream diversion for compliance with the project permits.

Included in this effort will be the following tasks:

- Providing fish exclusion support for the area of the stream to be diverted. Biologists will survey the site for stranded fish as the water recedes once the diversion is installed by the contractor. Efforts will be made to guide the fish to out flowing water to prevent stranding. Once the flow stops, the biologist will identify isolated pools of water and one by one dewater the pools with contractor assistance and capture any stranded fish and relocate them down stream of the project.
- Coordinate the Biological Assessment updates and consultation assistance for Section Seven of the Endangered Species Act with the County.
- Provide the necessary construction support such as permit coordination based on proposed changes by the contractor and provide input to the Project Engineer on contractor submittal

such as the stream diversion. This work also includes monitoring site turbidity during the implementation of stream diversion and removal of the stream diversions.

### **Task 3 Stream Stabilization Construction Assistance**

This task will be completed by a sub-consultant to Shearer Design, Northwest Hydraulic Consultants. The focus of this task will be assistance during construction of the rock and wood structures used for stream stabilization.

This scope of work covers NHC's effort to provide guidance for construction of the bank protection and habitat elements. This may include:

- Riprap placement (depth, extents, tieback locations, etc.)
- Log placement (location, orientation, and selecting appropriate log(s) for each feature)
- Ballast requirements and anchoring methods
- Construction access

NHC's design engineer will be on-site for a pre-construction walk-through and for up to five working days during the construction period. The actual time spent on site by the NHC design engineer is flexible (up to the hours allotted in the detailed cost estimate) and will depend upon the needs expressed by the County. The County will notify NHC in advance of the specific days to be on site.

#### **Pre-Construction Walk-Through:**

NHC's design engineer will travel to the site prior to or on the first day of construction to walk the project site with the County's project engineer and any contractors invited by the County. NHC may assist in staking locations of key features of the design.

#### **Construction Guidance:**

NHC's designer will be on site to provide construction guidance for up to 5 working days during the installation of the various project elements (assuming 12 hour days to account for travel and time on site). As noted previously, the number of days that NHC will actually spend on site during construction will be determined by the County's on-site lead project engineer. The County will be responsible for all construction supervision.

### **Task 4 Geotechnical Engineering Support**

This task will be completed by a sub-consultant to Shearer Design, Kleinfelder. The focus of this task will be assistance during construction of the sheet pile wall.

Included in this task will be

- On site observation during pile installation (2 days scheduled)
- Office time for support memos or documentation







**EXHIBIT "E1"  
COMPENSATION SUMMARY**

Task Estimate									
Project	Willoughby Creek Bridge Repair Construction Support								
Date	5/23/2011								
Principal	Proj. Engineer	Cad	Clerical						
Shearer, S.E.	Lindstrom								
<b>Task 2</b>	<b>Environmental Monitoring</b>								
Coordination	4								
Sub Totals	4	0	0	0					
Billing Rates	\$50.00	\$30.00	\$28.00	\$ 35.00					
	\$200.00	\$0.00	\$0.00		Sum totals	Direct Salary Cost	\$200.00		
Indirect Cost	Quantity	Rate	Total		OH Cost (Direct x 1.001)	Fee (30.00x Direct)	\$200.20		
Mileage	0	\$ 0.55	\$ -		Sub Total Labor	A	\$460.20		
Perdiem		\$ 150.00	\$ -		Expenses	B	\$ -		
Printing & Copies	0	\$ 20.00	\$ -		Sub consultants	C	\$ 11,504.00		
Total Expenses		\$ -	\$ -		Total A+B+C		\$11,964.20		
Sub consultants	Widener								



