

Jefferson County
Board of Commissioners
Agenda Request

To: Board of Commissioners
Philip Morley, County Administrator

From: Frank Gifford, Public Works Director *FG*

Agenda Date: May 6, 2013

Subject: Supplemental Agreement for Consultant Services with Tetra Tech, Inc. for Alder Creek Tributary Culvert Replacement, Upper Hoh Road MP 2.15, Project No. XO1781, Federal Aid No. ER-0801(025), AND Spruce Creek Culvert Replacement, Upper Hoh Road MP 9.70, Project No. XO1821, Federal Aid No. ER-0902(340)

Statement of Issue: Public Works staff requests a modification of the scope of work and budget in the basic agreement with Tetra Tech, Inc. to include additional services for Alder Creek Tributary Culvert Replacement and Spruce Creek Culvert Replacement.

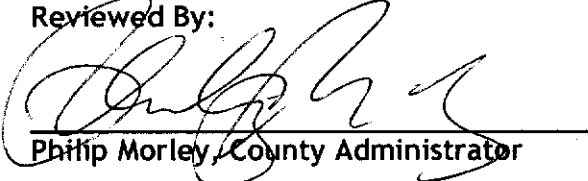
Analysis/Strategic Goals/Pro's & Con's: This supplement to the existing scope of work between Jefferson County and Tetra Tech is for construction assistance services for Alder Creek Tributary Culvert Replacement and Spruce Creek Culvert Replacement. These services will include performing a bridge load rating for Alder Creek, and assisting the County with project closeout on Spruce Creek.

Fiscal Impact/Cost Benefit Analysis: The Tetra Tech agreement covers a supplement of \$10,117.00 for the Alder Creek Tributary Culvert Replacement, and \$10,338.00 for the Spruce Creek Culvert Replacement. The maximum amount payable for the Tetra Tech agreement will increase from \$504,254.51 to \$524,709.51. This work is funded at 86.5% by the Federal Highway Administration and the remaining 13.5% through a combination of Rural Arterial Program (RAP) and County Road funds.

Department Contact: Mark Thurston, P.E., Project Manager, 385-9160.

Recommendation: The Board is requested to execute all three originals of the Supplemental Agreement with Tetra Tech, Inc., and return two originals to Public Works.

Reviewed By:


Philip Morley, County Administrator

5/1/13
Date

| | |
|---|---|
| SUPPLEMENTAL AGREEMENT NUMBER 6 | CONSULTANT ADDRESS/TELEPHONE: Tetra Tech, Inc. 1420 Fifth Avenue, Suite 600 Seattle, WA 98101-2357 Phone: (260) 883-9300 |
| AGREEMENT NUMBER: Tetra Tech – Upper Hoh Road | |
| PROJECT NUMBER: XO1736, XO1781, and XO1821 | MAXIMUM AMOUNT PAYABLE: \$524,709.51 |
| PROJECT TITLE: Upper Hoh Road Culvert Replacements | COMPLETION DATE: January 30, 2014 |

The County of Jefferson, State of Washington, desires to supplement the agreement entered into with Tetra Tech, Inc. and executed on January 19, 2010 and identified as:

Tetra Tech – Upper Hoh Road

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:

II

Section II, SCOPE OF WORK, shall be amended by adding work items to Alder Creek -- Task No. 8, Construction Administration Assistance. The additional items of work that will be done under Construction Administration Assistance are set forth in the attached Exhibit A, and by this reference made a part of this supplement.

Section II, SCOPE OF WORK, shall also be amended by adding work items to Spruce Creek -- Task No. 8, Construction Administration Assistance. The additional items of work that will be done under Construction Administration Assistance are set forth in the attached Exhibit A, and by this reference made a part of this supplement.

There will be no change to the scope of work for Dismal Creek.

V

Section V, PAYMENT, shall be amended as follows:

For Alder Creek, Task No. 8, Construction Administration Assistance, will have a new maximum amount payable of \$31,626.00. The new, total maximum amount payable for Alder Creek will be \$192,876.00, as shown below.

For Spruce Creek, Task No. 8, Construction Administration Assistance, will have a new maximum amount payable of \$25,911.00. The new, total maximum amount payable for Spruce Creek will be \$183,888.00, as shown below.

There will be no change to the maximum amount payable for Dismal Creek.

Alder Creek Culvert Replacement:

| Task Description | Current Maximum Amount Payable | Supplement #6 | New Maximum Amount Payable |
|-------------------------------|--------------------------------|--------------------|----------------------------|
| EXISTING TASKS: | | | |
| Project Management | \$10,899.00 | \$0.00 | \$10,899.00 |
| Preliminary Design Report | \$13,607.00 | \$0.00 | \$13,607.00 |
| Plans, Specifications, & Est. | \$60,770.00 | \$0.00 | \$60,770.00 |
| Geotechnical Analysis | \$1,334.00 | \$0.00 | \$1,334.00 |
| Hydraulic Analysis | \$20,055.00 | \$0.00 | \$20,055.00 |
| Environmental Services | \$42,546.00 | \$0.00 | \$42,546.00 |
| Topographical Survey | \$8,739.00 | \$0.00 | \$8,739.00 |
| Expenses | \$3,300.00 | \$0.00 | \$3,300.00 |
| Subtotal | \$161,250.00 | \$0.00 | \$161,250.00 |
| Construction Assistance | \$21,509.00 | \$10,117.00 | \$31,626.00 |
| | | | |
| TOTAL | \$182,759.00 | \$10,117.00 | \$192,876.00 |

Spruce Creek Culvert Replacement:

| Task Description | Current Maximum Amount Payable | Supplement #6 | New Maximum Amount Payable |
|-------------------------------|--------------------------------|--------------------|----------------------------|
| EXISTING TASKS: | | | |
| Project Management | \$11,739.44 | \$0.00 | \$11,739.44 |
| Preliminary Design Report | \$12,499.31 | \$0.00 | \$12,499.31 |
| Plans, Specifications, & Est. | \$45,327.02 | \$0.00 | \$45,327.02 |
| Geotechnical Analysis | \$16,257.97 | \$0.00 | \$16,257.97 |
| Hydraulic Analysis | \$19,795.75 | \$0.00 | \$19,795.75 |
| Environmental Services | \$39,263.14 | \$0.00 | \$39,263.14 |
| Topographical Survey | \$10,905.82 | \$0.00 | \$10,905.82 |
| Expenses | \$2,188.55 | \$0.00 | \$2,188.55 |
| Subtotal | \$157,977.00 | \$0.00 | \$157,977.00 |
| Construction Assistance | \$15,573.00 | \$10,338.00 | \$25,911.00 |
| | | | |
| TOTAL | \$173,550.00 | \$10,338.00 | \$183,888.00 |

Tetra Tech Agreement:

| Site | Current Maximum Amount Payable | Supplement #6 | New Maximum Amount Payable |
|-----------------------|--------------------------------|---------------|----------------------------|
| Alder Creek Tributary | \$182,759.00 | \$10,117.00 | \$192,876.00 |
| Dismal Creek | \$147,945.51 | \$0.00 | \$147,945.51 |
| Spruce Creek | \$173,550.00 | \$10,338.00 | \$183,888.00 |
| Total | \$504,254.51 | \$20,455.00 | \$524,709.51 |

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.

TETRIX TECH, INC.
Consultant (Please print)

KEVIN J. DOUR
Consultant's Name (Please print)

Kevin J. Dour
Consultant's Signature

5/23/2013
Date

COUNTY OF JEFFERSON
BOARD OF COMMISSIONERS

John Austin, Chair

Phil Johnson, Member

David W. Sullivan, Member

Approved as to form only:

David Alvarez 4/4/13
David Alvarez Date

Deputy Prosecuting Attorney

Frank Gifford 4/27/13
Frank Gifford Date

Public Works Director

EXHIBIT A

SUPPLEMENT NO. 6 -- SCOPE OF WORK

ALDER CREEK TRIBUTARY CULVERT REPLACEMENT -- LOAD RATING

This supplement provides for additional professional services necessary to perform a load rating on the Alder Creek Tributary as described below. The analyses will be based upon the Contractor-provided culvert fabrication submittal and the design drawings.

1.5 Preliminary Load Rating Analysis

Following receipt and review of the culvert submittal from the Contractor, a load rating will be performed and submitted to the County within 21 days of the receipt of the submittal. The load rating will be done in accordance with the AASHTO Manual for Bridge Evaluation, Second Edition 2011, and in accordance with Chapter 14 of the WSDOT Bridge Design Manual. The Consultant shall provide a stamped load rating report summarizing the controlling points for the Legal Vehicles and Overload Vehicles. The load rating will check that the culvert structure has sufficient reserve capacity to rate at least 1.00 for the HL-93 design vehicle and for the Legal Vehicles (Type 3, Type 3-S2, Type 3-3). In addition, the Rating values for the Notional Rating Load and WSDOT Overload Vehicles (Overload 1 and Overload 2) will be checked for a load rating greater than 1.00. The load rating report will include the following:

- a. Rating summary cover sheet
- b. LFR analysis for NBI Operating and Inventory
- c. LRFR analysis for all legal and overload vehicles

1.6 Final Load Rating Confirmation

After project construction, the load rating will be updated to reflect changes made during the construction that would alter the load rating. An updated load rating report will be prepared and submitted to the County that incorporates comments received from the preliminary load rating performed in Task 1.5.

SPRUCE CREEK CULVERT REPLACEMENT – LOAD RATING ANALYSIS

This supplement provides for professional services necessary to assist the County with load rating analysis of the Spruce Creek Culvert.

Alder Creek Tributary Culvert Replacement - Supplement No. 6

PROJECT : Upper Hoh Road Culvert Replacements
 Construction Administration Support Services
 P.D. No.: 135-12562-10001-02 County Work Order # 18017810 Date: 2/21/2013

| Phase Description | TETRA TECH LABOR | | | | | | | | | | SUBCONSULTANTS @ 1.00 | | | PHASE TOTALS | | | |
|---|--------------------|-------------------|----------------|-------------------|--------------------|---------------------|--------------|--------|-------------|------------------|-----------------------|----------|----------------|--------------|--|--|---------|
| | Principal Engineer | Sr Civil Engineer | Civil Engineer | Sr. Hyd. Engineer | Sr Bridge Engineer | Structural Engineer | CAD Drafting | Admin. | Total Hours | Total Labor Cost | AMEC | Adolfson | Total Sub Cost | | | | |
| 1.0 Construction Services | | | | | | | | | | | | | | | | | |
| 1.5 Preliminary load rating | | | | | | | | | | | | | | | | | |
| Review Contract Information | 1 | | | | 2 | 4 | | | | | | | | | | | \$1,195 |
| Load Rating analysis | | | | | 4 | 32 | | | | | | | | | | | \$5,412 |
| Load rating reporting (draft) | | 2 | | | 2 | 8 | | 2 | | | | | | | | | \$2,044 |
| 1.6 Post construction load rating confirmation and final report | | 2 | | | 2 | 4 | | 2 | | | | | | | | | \$1,466 |
| TOTAL HOURS | | | | | | | | | | | | | | | | | |
| DIRECT JOB WAGES (DJW) | | | | | | | | | | | | | | | | | |
| SUBTOTALS | | | | | | | | | | | | | | | | | |
| TOTAL ESTIMATED WAGES | | | | | | | | | | | | | | | | | |
| WAGE OVERHEAD @ 1.6800 | | | | | | | | | | | | | | | | | |
| PROFESSIONAL FEE @ 0.30 | | | | | | | | | | | | | | | | | |
| TOTAL \$10,117 | | | | | | | | | | | | | | | | | |

TOTAL COMPENSATION THIS EFFORT: \$10,117