

KITTITAS COUNTY
DEPARTMENT OF PUBLIC WORKS

AGENDA STAFF REPORT

AGENDA DATE: April 21, 2015

ACTION REQUESTED: Approve and sign the construction monitoring task order with JUB Engineers for the WF Teanaway Road and NF Teanaway Road project

BACKGROUND: The Washington State Department of Commerce authorized \$4,950,000 for improvements to the Teanaway area, \$780,575.20 of which was awarded for a contract to improve WF Teanaway Road and 4.73 miles of NF Teanaway.

These improvements will provide hot-mix overlay to the road for surface longevity and improved driving conditions. To maintain public health and safety, it is necessary for these road improvements to meet the traffic demands.

Public Works is retaining construction monitoring and materials testing services for contract quality assurance.

Efforts to expedite the design process, requires professional engineering services. On March 03, 2015 the BOCC approved the chair to sign the on-call engineering services contract for construction monitoring. A task order for professional services equaling \$43,010 was prepared for BOCC approval.

INTERACTION: Public Works and JUB Engineers

RECOMMENDATION: BOCC to approve chair signature of the construction monitoring task order for WF Teanaway Road and NF Teanaway Road.

HANDLING: Return two signed task order originals to Public Works

ATTACHMENTS: Professional Engineering Services Task Order for Teanaway Road

LEAD STAFF: Douglas D'Hondt
County Engineer

**BOARD OF COUNTY COMMISSIONERS
COUNTY OF KITTITAS
STATE OF WASHINGTON**

RESOLUTION NO. _____

**TO AUTHORIZE CHAIR SIGNATURE FOR PROFESSIONAL ENGINEERING TASK
ORDER FOR TEANAWAY ROAD AND NF TEANAWAY ROAD PROJECT**

WHEREAS: The Washington State Department of Commerce authorized \$4,950,000 for improvements to the Teanaway area; and

WHEREAS: A contract for \$780,575.20 was awarded for improvements to WF Teanaway Road and 4.75 miles of NF Teanaway Road; and

WHEREAS: Public Works plans to use consultant support for construction inspections and testing; and

WHEREAS: JUB Engineers provided a signed task order to perform such services for \$43,010; and

WHEREAS: On March 03, 2015 the BOCC approved the chair to sign an on-call engineering services contract with JUB Engineers through Resolution 2015-022.

NOW, THEREFORE BE IT RESOLVED that the Board of County Commissioners, in the best interest of the public, does hereby authorize the chair to sign the task order for professional engineering services for the Teanaway Road and NF Teanaway Road project.

DATED this 21st day of April, 2015, at Ellensburg, Washington.

**BOARD OF COUNTY COMMISSIONERS
KITTITAS COUNTY, WASHINGTON**

Gary Berndt, Chair

Obie O'Brien, Vice-Chair

Paul Jewell, Commissioner

ATTEST:

Clerk of the Board



THE
LANGDON
GROUP



GATEWAY
MAPPING
INC.

OTHER J-U-B COMPANIES

Formal Task Assignment Document

Task Number 2

The general provisions and clauses of Agreement 2015-022 shall be in full force and effect for this Task Assignment.

Location of Project: West Fork and North Fork Teanaway Road located northeast of Cle Elum

Project Title: West Fork Teanaway Road Improvements – Mile Post 0.0 to Mile Post 1.1 and North Fork Teanaway Road Improvements – Mile Post 9.87 to Mile Post 13.1

Maximum Amount Payable Per Task Assignment: \$43,010.00

Completion Date: August 1, 2015

Description of Work:

Perform Construction Observation and Materials Testing for AGENCY administered construction project. Construction Observation deliverables shall include daily observation reports and Unit Bid Item quantity sheets. Materials Testing and Quality Assurance sampling frequencies shall conform to the WSDOT Construction Manual or as requested/directed by AGENCY. Testing results shall be reported as required by AGENCY.

Agency Project Manager Signature: [Signature] Date: 08/10/15

Oral Authorization Date: _____ See Letter Dated: _____

Consultant Signature: [Signature] Date: 3-26-15

Agency Approving Authority: _____ Date: _____

ESTIMATED PERSON-HOUR EXHIBIT**West Fork and North Fork Teanaway Road Improvements
Task Assignment No. 2 - Construction Observation/Materials Testing**

CLIENT: Kittitas County

DATE: March 26, 2015

Section: Teanaway Road - West Fork MP 0.00 to 1.1 and North Fork MP 9.87 to 13.1

PROJECT TASK		Principal In-Charge	Project Manager	Construction Manager	Construction Observer	Clerical
TASK 1	CONSTRUCTION ENGINEERING	HOURS				
1.1	Project Management (3 Mo.)	2.0	12.0	4.0	0.0	8.0
1.2	Meetings	0.0	6.0	0.0	6.0	0.0
1.3	Submittals & RFI	0.0	0.0	0.0	0.0	0.0
1.4	Change Orders	0.0	0.0	0.0	0.0	0.0
1.5	Construction Observation (50 WD) - 10 weeks	0.0	4.0	8.0	150.0	0.0
1.6	Material Testing Coordination & Review	0.0	6.0	6.0	0.0	0.0
1.7	Record Drawings & Project Closeout	0.0	0.0	0.0	8.0	0.0
TOTAL		2.0	28.0	18.0	164.0	8.0

Exhibit E-1

Consultant Fee Determination - Summary Sheet

Cost Plus Fixed Fee

Project: West Fork and North Fork Teanaway Road Improvements

Direct Salary Cost (DSC):

Classification	Man-Hours	Rates of Pay	Costs
Principal In-Charge	2.0	\$70.41	\$140.82
Project Manager	28.0	\$43.23	\$1,210.44
Construction Manager	18.0	\$48.15	\$866.70
Construction Observer	164.0	\$25.43	\$4,170.52
Clerical	8.0	\$29.16	\$233.28
Total DSC =			\$6,621.76
Overhead (OH Cost - including Salary Additives):			
OH Rate x DSC	of	177.10%	= \$11,727.14
Fixed Fee	Fixed Fee	35.00%	= \$2,317.62
Total DSC, OH & Profit			\$20,666.51
Reimbursables:			
Travel and Per Diem			
Per Diem	10	days @	\$42.00 \$420.00
Air Travel	0	trips @	\$0.00 \$0.00
Mileage	1740	miles @	\$0.575 \$1,000.50
Lodging	10	nights @	\$100.00 \$1,000.00
Reproduction/Mailing Expenses			
Reimbursable Sub-Total			\$2,420.50
Subconsultant Costs:			
Baer Testing Inc.		\$16,050.00	
Total Subconsultant Costs			\$16,050.00
Total			\$39,137.01
Total (Rounded \$100)			\$39,100.00
Management Reserve (10%)			\$3,910.00
Grand Total			\$43,010.00
Prepared by: Travis Marden			
Date: 3/26/2015			



**Baer Testing
Inc.**

1106 Ledwich Ave.
Yakima, WA 98902
(509) 469-3068 Office
(509) 469-3070 Fax

Estimated Budget Proposal

Bid Date:

ASAP

West Fork & North Fork Teanaway Road
Improvements Kittitas County-JUB Engineers

Project Name:

Date:

3/26/2015

NOTICE: This proposal is an estimated budget based on unit prices and is subject to construction scheduling which may or may not increase the budget amount.

Category	Units	Unit Price	Total	Notes
Soil & Aggregate Testing - Continuous & Periodic (CSBC +/-676 tons)				
Sieve Analysis, Fractured Face count and Sand Equivalent, each	2	\$ 100.00	\$ 200.00	CSBC & Native
Moisture-Density (proctor), each	2	\$ 200.00	\$ 400.00	CSBC & Native
Technician to perform soil/aggregate inspections, per hour	24	\$ 53.00	\$ 1,272.00	4 Trips
Soils Investigation / Geotechnical Investigation, each*	Quotes Available Upon Request			

Estimated Soil & Aggregate Testing Total: \$ 1,872.00

Concrete Testing - Continuous & Periodic

N/A

6 x 12" or 4 x 8 " compressive strength tests, each	\$ 19.00	\$ -
Technician to perform concrete inspections, per hour	\$ 53.00	\$ -
Technician to perform rebar inspections, per hour	\$ 65.00	\$ -
Technician to perform anchor bolt inspections, per hour	\$ 65.00	\$ -
Technician to perform epoxy bolt inspections, per hour	\$ 65.00	\$ -
6 x 12" or 4 x 8 " concrete cylinder molds, each	\$ 5.00	\$ -
Technician to Pickup, Process & Transport Cylinders, per hour	\$ 53.00	\$ -

Estimated Concrete Testing Total: \$ -



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Category	Units	Unit Price	Total	Notes
Asphalt Testing - Continuous & Periodic (+/- 7847 tons @ every 800 tons)				
Extraction / Gradation, each	12	\$ 200.00	\$ 2,400.00	
Theoretical maximum specific gravity (rice), each	12	\$ 100.00	\$ 1,200.00	
Technician to perform asphalt inspections, per hour	56	\$ 53.00	\$ 2,968.00	4 Trips
Technician for asphalt coring, per hour		\$ 55.00	\$ -	
Support technician, per hour		\$ 48.00	\$ -	
Asphalt coring equipment charge, per hour		\$ 50.00	\$ -	
Asphalt core unit weight testing, per core		\$ 95.00	\$ -	
Technician to Pickup & Transport HMA Samples, per hour	30	\$ 53.00	\$ 1,590.00	4 Trips
Asphalt Gyratory Compaction Volumetrics, per test		\$ 450.00	\$ -	
* Sub-Consultant to BTI-Takes several days to complete				
Estimated Asphalt Testing Total:			\$ 8,158.00	

Masonry Testing - Continuous & Periodic

N/A

Inspector to perform masonry inspections, per hour	\$ 53.00	\$ -	
4 x 4 x 8" Grout compressive strength test, each	\$ 19.00	\$ -	
2 x 2 Epoxy Grout Cubes compressive strength test, each	\$ 19.00	\$ -	
Technician to Pickup, Transport & Process Masonry Samples, per hour	\$ 53.00	\$ -	
2 x 4" Mortar compressive strength, each	\$ 19.00	\$ -	
Unit masonry prism, each	\$ 90.00	\$ -	
Estimated Masonry Testing Total:			\$ -



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Category	Units	Unit Price	Total	Notes
Structural Steel Testing - Continuous & Periodic			N/A	
Bolt inspection, per hour		\$ 65.00	\$ -	
Visual welding inspection, per hour*		\$ 125.00	\$ -	
U/T inspection, per hour*		Quotes Available Upon Request		
Estimated Structural Steel Testing Total:			\$ -	

Miscellaneous					
Mileage, per mile (140 mile R/T min.)	2800	\$ 0.500	\$ 1,400.00	20 Trips	
Per Diem, per man, per day (meals)		\$ 40.00	\$ -		
Overtime surcharge - Charged prior to 8 AM or after 5 PM	30	\$ 26.50	\$ 795.00		
Administrative/Clerical, per hour	35	\$ 48.00	\$ 1,680.00		
Testing Manager - Site visits and/or review, per hour (includes precon)	15	\$ 95.00	\$ 1,425.00		
Vehicle Rental Rate per day (10 hrs per day)		\$ 100.00	\$ -		
Technician for wood nailing inspection, per hour		\$ 50.00	\$ -		
Technician for floor moisture testing, per hour		\$ 50.00	\$ -		
Floor moisture test kits, each		\$ 30.00	\$ -		
Nuclear densometer, per hour	80	\$ 9.00	\$ 720.00		
Chief Engineer, PE per hour		\$ 165.00	\$ -		
Estimated Miscellaneous Total:			\$ 6,020.00		

NOTE: This estimated budget proposal was developed by a review of the plans & specifications and our experience with similar projects without the benefit of how the contractor will schedule and actually build the project.

ESTIMATED BUDGET GRAND TOTAL: \$ 16,050.00