

7.0 TRANSIT PLANNING AND ENGINEERING

7.1 Transit Team Support for BERP

The CONSULTANT will provided effort to assist the state in supporting an expert review panel of the River Crossing Bridge as follows:

- Provide support up to 3 BERP meetings
- Develop up to 5 Transit alignment alternatives as directed by CRC management in response to the BERP meeting #1. Development includes horizontal and vertical track layout, review of Light Rail Transit (LRT) design speed impacts, review of key property impacts, coordination with structures at key interface points with Main river crossing and confirmation of dynamic envelop clearances.
- Prepare transit data and information for use in exhibits for up to 5 alternatives for the BERP meeting #2
- Revise and provide more detail for up to an additional 2 alignment alternatives as directed by CRC management in response to the BERP meeting #2. Development includes horizontal and vertical track layout, review of LRT design speed impacts, review of key property impacts, coordination with structures at key interface points with main river crossing and confirmation of dynamic envelop clearances.
- Provide qualitative analysis of the difference in effects by the alternative relative to the LPA Option A design
- Prepare transit data and information for use in 1 exhibit for the BERP meeting #3
- Address comments and requests from the BERP

Deliverables:

The CONSULTANT will provide the following meeting materials for BERP meetings:

- Meeting material for BERP Meeting #1 (Information for comprehensive Technical Memorandum of alternatives relative to the LPA Option A design). **AK7001**
- Meeting material for BERP Meeting #2 (Microstation information for exhibits for Design Alternatives, Alignment Alternatives, and Information for comprehensive Technical Memorandum of alternative relative to the LPA Option A design). **AK7002**
- Meeting material for BERP Meeting #3 (Microstation information exhibit). **AK7003**

8.0 ENGINEERING

8.1 Bridge Review Panel

The CONSULTANT will provide additional effort to assist the state in preparing, coordinating and implementing an expert review panel of the River Crossing Bridge as follows:

- Additional support for scheduled BERP workshops

8.2 Highway/Bridge Team Support for BERP

The CONSULTANT will provide effort to assist the state in supporting an expert review panel of the River Crossing Bridge as follows:

Highway

- Attend up to 3 BERP meetings
- Develop up to 7 alignment alternatives as directed by CRC management in response to the BERP meeting #1. Development includes layout of highway mainline and interchange horizontal and vertical alignments, and application a rudimentary template to allow for surface modeling. It also includes layout of horizontal and vertical alignments for the Multi-Use Path (MUP).
- Examine how the alignment alternatives change the staging concepts
- Provide qualitative analysis of the difference in effects by the 7 alternatives relative to the Locally Preferred Alternative (LPA) Option A design
- Prepare exhibits for up to 5 alternatives for the BERP meeting #2 – 1 set of 11x17, 1 set of 22x34
- Address comments and requests from the BERP related to the 7 alternatives
- Prepare up to an additional 2 alignment alternatives as directed by CRC management in response to the BERP meeting #2. Development includes layout of the highway and MUP horizontal and vertical alignments, and application a rudimentary template to allow for surface modeling.
- Examine how the additional alignment alternatives change the staging concepts
- Provide qualitative analysis of the difference in effects by the alternative relative to the LPA Option A design
- Prepare 1 exhibit for the BERP meeting #3
- Support the CRC management in the development of a technical memorandum in response to the Bridge Advisory Review Findings. The support will consist in providing written technical analysis information which will contribute to the content of the memorandum but will not consist in primary authorship of the memorandum. It may also consist in providing calculations and graphics that illustrate key points.

Landside Bridges

- Participate in 4 internal CRC meetings to support the 3 BERP meetings
- Prepare conceptual bridge layout for structures on the SR14 Interchange, Hayden Island and North Portland Harbor with revised roadway alignment and profile resulting from the BERP recommendation. A maximum of two alignment and profile alternatives will be evaluated.
- Provide bridge type selection evaluation based on changes to the roadway alignment and profile and span lengths of superstructure.
- Address comments from the BERP regarding landside structures

Bridges

- Technical assessment of the detailing/fabrication and erection of the steel web members and connections of the open-web box girder
- Independent contractor's bid estimate and constructability review of the open-web box girder alternative
- Technical assessment of the structural design of the open-web box girder
- Technical assessment of the feasibility/constructability of the open-web box girder design.
- Technical assessment of the BERP options

Assumptions:

The CONSULTANT will provide:

- Microstation and Inroads files for alignment alternatives available upon request
- Analysis narrative of initial 7 alternatives for a comparative table (analysis narrative is a section to be included in a comparative table by STATES staff)
- Analysis narrative of 2 additional alternatives for a comparative table (analysis narrative is a section to be included in a comparative table by STATES staff)

Deliverables:

The CONSULTANT will provide selected meeting materials for BERP meetings as follows:

- Meeting material for BERP Meeting #2 (Exhibits– 1 set of 11x17, 1 set of 22x34 and narrative) **AK8001**
- Meeting material for BERP Meeting #3 (Exhibit – 1 set of 22x34 and narrative) **AK8002**

COLUMBIA RIVER CROSSING
 Washington State Department of Transportation / Oregon Department of Transportation
 Task No. AK Amendment#1
 David Evans and Associates, Inc.

TASK COST SUMMARY					
Firm Name	DEA	HDR	Kitchin	PB Americas	TOTAL
Task Description					
Work Element 1.0: Project Management	\$9,794				\$9,794
1.1 Project Management	\$9,794				\$9,794
Work Element 5.0: Transportation Planning	\$9,783				\$9,783
5.1 Transportation Team Support for BERP	\$9,783				\$9,783
Work Element 7.0: Transit Planning and Engineering	\$20,278				\$20,278
7.1 Transit Team Support for BERP	\$20,278				\$20,278
Work Element 8.0: Engineering	\$142,206	\$512,401	\$8,000	\$104,033	\$766,639
8.1 Bridge Review Panel	\$71,645				\$71,645
8.2 Highway/Bridge Team Support for BERP	\$70,561	\$512,401	\$8,000	\$104,033	\$694,994
Budget per Firm	\$182,061	\$512,401	\$8,000	\$104,033	\$806,494

EXHIBIT Z



**Washington State
Department of Transportation**

Task Order

All terms and conditions of this agreement are in full force and effect for this Task Order document.

Agreement No.

Y- 9245

Agreement Manager Information

Task No.

AT

Agreement Manager George Humphrey	Phone (360) 816-8864	Org. 585100	Mailstop S-15
Address 700 Washington Street, Suite 300	City Vancouver	State WA	Zip Code 98660

Project Manager Information

Project Manager Nancy Boyd	Phone (360) 737-2726	Org. 585100	Mailstop S-15
Mailing Address 700 Washington Street, Suite 300	City Vancouver	State WA	Zip Code 98660

Project Information

Project Title Columbia River Crossing
State Route No(s). 5

Task Schedule

Task Start Date 5/29/2012	Task End Date 12/31/2012
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No payment will be made for work done PRIOR to Task Start Date or for work done AFTER Task End Date

Task Cost

Work Order No.	Org. Code	Amount	Fed. Aid Part.?	This section required if there is Fed. Aid Part.	
				Fed. Aid Project No.	Fed. Aid Part. %
XL3679	585100	\$264,424.24	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Total Task Amount		\$264,424.24			

Consultant Information

Prime Consultant David Evans & Associates, Inc.	Federal I.D. No. 930661195
Address 700 Washington Street, Suite 300	City Vancouver
	State WA
	Zip Code 98660-3224
Contact- (Name) Lyn Wylder	Phone (360) 737-2726
	E-Mail wylderl@columbiarivercrossing.com

Approval Signatures

Consultant

Shirase Hunter
Project Manager

M. Salazar
Agreement Manager

Julie M. ...
Washington State Department of Transportation

Scope of Task Order

Provide description of work and reference attachments for prime consultant and all subconsultants (to include detailed description of work schedule and estimate).

Report Due Date

The purpose of this task is to strategize and develop a clear path for obtaining a Section 9 Coast Guard Bridge Permit.

See the attached scope and budget for additional information.

Distribution: Originals: Consultant

Copies: File

Consultant Services

Task Manager

Other R Funkhouser

B McMullen

Sub Consultants on this Task Order

Name, Address	Dawson & Associates, Inc.	1225 "I" Street NW, Suite 250, Washington, DC, 20005	
DMWBE, Contact		Stephen Dawson	spdawson@dawsonassociates.
Phone, Fax	(202) 289-2060	(202) 289-8683	\$35,363.00
	Parsons Brinckerhoff, Inc.	400 SW Sixth Avenue, Suite 802, Portland, OR, 97204	
		Angela Findley	findley@pbworld.com
	(503) 417-9355		\$61,464.24
		Sub Consultant Total	\$96,827.24
		Prime Net	\$167,597.00

WORK ELEMENTS

EV.21 Environmental Permits

EV.21.03 Coast Guard General Bridge Permit

EV.21.03.01 Coast Guard General Bridge Permit Strategy

CONSULTANT shall support and assist senior CRC staff in developing and implementing a strategy to obtain a US Coast Guard and US Army Corps of Engineer's permits. Developing and implementing a strategy will require multiple trips by CONSULTANT staff from out-of-state for meetings as well as conference calls.

Support shall include but not be limited to the following items:

- Providing advice on agency engagement strategies
- Review and comment on workplan developed
- Review vessel data and impact analysis

Assumptions:

- Up to eight (8) round-trip flights and up to 16 days of per diem are assumed
- Scope is limited to the hours covered by this Task Order
- Additional approval is necessary for continued work

Deliverables:

- No deliverables are anticipated for this work.

Background:

- Verbal approval was provided by the STATE (David Dye, Deputy Secretary and COO of WSDOT), on May 29, 2012 for 56 hours of the work covered by this Task Order. This was confirmed by an email dated May 30, 2012. The first meeting occurred on May 30, 2012 with travel occurring prior to that date. Additional meetings occurred on June 4 and 5. From these meetings a strategy and plan was developed including additional work items now scoped and included in this Task Order.

EV.21.03.02 Coast Guard General Bridge Permit Workplan Development and Management

Consultant shall provide a Process Manager with responsibilities that include:

- Leading the project team
- Proposing a workplan and schedule for execution that gives the USCG the information to make an informed decision on the appropriate clearance
- Seeking input on the plan from CRC's Executive Management Group (EMG), management team and appropriate staff

- Implementing the plan
- Working through issues that arise and informing EMG and CRC management of resolution. Provide bi-weekly updates to the plan

The workplan is anticipated to consist of the following eight (8) elements, which will be undertaken to complete the data collection and technical analyses, coordinate with all state and federal partners, and prepare the NEPA re-evaluation and bridge permit application.

Work contained in the workplan will be accomplished by the STATE and the CONSULTANT as noted below.

1. **Vessels Impact Analysis**– Gain a comprehensive understanding of what the draft data report contains as it relates to river users and vessels that pass under the I-5 bridge. Specifically identify potentially impacted vessels. Conduct an impact analysis using 95 feet clearance above 0 CRD .
 - a. Verify the self reported and bridge log data for users near 95 foot clearance to better understand the extent of impact, including:
 - i. Vessel height
 - ii. Air gap requirement
 - iii. Frequency and time of year
 - iv. Past history from bridge log data
 - v. Water level
 - vi. Analyze data by type of vessel, user and user class/type

Responsible parties: The STATE and CONSULTANT team. CONSULTANT work, including data gathering, surveying and Vessel Impact Analysis is being contracted under Task AH.

Schedule: Final draft completed by August 1, 2012

2. **Business impact analysis** – Gain an understanding of the impacts of 95 foot clearance above 0 CRD on all river users.
 - a. Understand the extent of current and predicted future impacts to each vessel, business or landowner:
 - i. What percentage of their business requires higher than 95 feet clearance at 0 CRD?
 - ii. Can the impacts be mitigated, and if so what is the cost and mitigation opportunity?
 - b. Quantify positive and negative impacts to navigation of proposed bridge improvements, such as - no bridge lifts, time of day restrictions or improved horizontal clearance

Responsible parties: CONSULTANT under previously contracted work and other work to be determined as the work plan progresses.

Schedule: Preliminary assessment August 15, 2012, complete by October 31, 2012

3. **Economic Benefits** –The project provides improvements to safety, mobility, congestion relief, freight movement on the water and highway. Describe overall benefits of the project to the region related to the no build alternative. It is important context to consider overall economic benefits to the region when evaluating impacts to river users.
- Describe the value or economic benefit in terms of: jobs from construction, future economic growth from improved access and mobility (job creation, tax revenue, etc.).
 - What would happen if the project was not built?
 - Are there incremental benefits from a higher bridge clearance?

Responsible parties: Anticipated to be by the CONSULTANT team with Contracting developed in a future Amendment.

Schedule: Draft report August 15, 2012; Final report by September 30, 2012

4. **Coordination between USCG/USACE/CRC/ODOT/WSDOT/FHWA/FTA/FAA** – Develop and implement a plan for communication between all the federal and state partners.
- Determine timing and level of interaction at key milestones in work plan

Responsible parties: Executive Management Team with support from CONSULTANT team members

Schedule: Initial plan July 15, 2012 refined as needed

5. **Bridge Design** – Analyze current design for opportunities to avoid or minimize impacts. Technical data analysis is under way.

Responsible parties: The STATE and the CONSULTANT under previously contracted work and other work to be determined as work progresses.

Schedule: Initial briefing June 30, 2012

6. **Summarize past analyses and decision steps** that support the current proposed vertical clearance of 95'. This summary will be used as background to inform the current analyses.

Responsible parties: CONSULTANT covered under previously contracted work

Schedule: Draft by June 30, 2012

7. **NEPA Re-evaluation** – Conduct a NEPA re-evaluation that documents the impacts from the updated information from the river users' survey. This will address the USCG requirement to satisfy NEPA for their federal action of issuing a permit.

- a. Utilize the information developed for the data report and impact analysis to inform the level of information to be included in the re-evaluation.

Responsible parties: The State and the CONSULTANT with scope to be determined at as work progresses.

Schedule: Complete by October 31, 2012

8. **General Bridge Permit application** – Draft permit application for submittal to USCG. Coordinate to ensure that all relevant data is submitted and the application will be approved. (NEED TO OUTLINE THE DRAFT PERMIT SUBMITTAL, ETC.)

Responsible parties: The State and the CONSULTANT with additional scope to be determined as work progresses and included in a future Amendment.

Schedule: Complete by November 30, 2012

Assumptions:

- Scope is limited to the hours covered by this Task Order and may be adjusted up or down as requested by the STATE

Deliverables:

- Bridge Permit Workplan (with major elements of the workplan covered under existing contracts or new work to be determined)

Hamstra, Tom

From: Dilley, Doyle
Sent: Wednesday, May 30, 2012 1:58 PM
To: Wylder, Lyn; document.control
Cc: Hamstra, Tom; Williams, Mike (CRC); Mabey, Raymond
Subject: FW: URGENT for DAVE DYE: Revised Task AT

Lyn,

The attached email provides documentation of the advanced authorization for the work negotiated in Agreement Y-9245, Task Order AT, and notice to proceed (NTP) as described. The formal Task Order Document will need to be completed, including documents from sub-consultant Dawson, for payment of invoice(s) to be made. This authorization includes the travel costs in accordance with agreement Y-9245. The advance purchase of airline tickets has been authorized.

Doyle Dilley
Consultant Services - HQ/CRC
360-705-7107 - Olympia
360-816-4036 - Vancouver CRC
360-878-0313 - Cell

-----Original Message-----

From: Dye, Dave [mailto:DyeD@wsdot.wa.gov]
Sent: Wednesday, May 30, 2012 6:59 AM
To: Boyd, Nancy
Cc: Lenzi, Jerry; Bakotich, Pasco; McKeon, Kyle; Dilley, Doyle; Healy, Linda; Judd, Ron; Strickler, Kris
Subject: Re: URGENT for DAVE DYE: Revised Task AT

Given the unique circumstances, I approve this authorization. This email documents my verbal approval granted yesterday.

-David L Dye, Deputy Secretary and COO, WSDOT

Sent from my iPhone

On May 29, 2012, at 6:55 PM, "Boyd, Nancy" <boydn@columbianrivercrossing.com> wrote:

> Dave, we need you to respond all with your concurrence to the following:
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>
> Because of the very short time frame needed for the consultant's
> services, the "normal" process for approval of an out-of-state
> sub-consultant and the approval of the Task Order itself need to be
> accelerated. The consultant (DEA) has not received all necessary
> documents from the proposed sub-consultant (Dawson) as of today.
> Communications have been on-going, but the sub-consultant will not be
> able to finish documentation before tomorrow, the date they have been
> requested to start work.
>
>
>
> The consultant and sub-consultants have made financial and time

> commitments to be here tomorrow based on their understanding of verbal
> authorizations from the CRC Project. In order to provide assurances
> to all parties concerned, this needs to be formalized by way of a
> written authorization. An email authorization from you would be
> satisfactory for establishing this commitment. This is consistent with
> CSO Manual Chapter
> 6 emergency procedures.

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> Thank you for your quick attention to this matter. Please call if you
> have any questions.

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> From: Dilley, Doyle
> Sent: Tuesday, May 29, 2012 3:30 PM
> To: Boyd, Nancy
> Cc: Mabey, Raymond
> Subject: FW: Revised Task AT

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> Nancy,

>
> Attached are the draft scope and budget for the proposed Task Order AT
> to Y-9245 for the consultant to strategize with CRC staff and develop
> a clear path for obtaining a Section 9 Coast Guard Bridge Permit. It
> is my understanding that the scope and budgetary costs were negotiated
> by you, Dave Dye and Kris Stickler.

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>
> The proposed work will be performed by two sub-consultants, Parsons
> Brinckerhoff, Inc. (PB) and Dawson Associates. PB is an approved
> sub-consultant on this project, but not for the rate category proposed.
> Dawson is not a currently approved sub.

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>
> Because of the very short time frame needed for the consultant's
> services, the "normal" process for approval of an out-of-state
> sub-consultant and the approval of the Task Order itself need to be
> accelerated. The consultant (DEA) has not received all necessary
> documents from the proposed sub-consultant (Dawson) as of today.
> Communications have been on-going, but the sub-consultant will not be
> able to finish documentation before tomorrow, the date they have been
> requested to start work.

>
>
>
> The consultant and sub-consultants have made financial and time
> commitments to be here tomorrow based on their understanding of verbal

> authorizations from the CRC Project. In order to provide assurances
> to all parties concerned, this needs to be formalized by way of a
> written authorization. An email authorization will be satisfactory for
> establishing this commitment.

>
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>

> Because of the high level at which this negotiation occurred, and the
> rates of those providing the services, the authorization needs to come
> from either Jerry Lenzi's level or above (CSO Manual Chapter 6
> emergency procedures). Since Dave was included in the discussions and
> negotiations, I believe authorization would be most timely obtained
> from him.

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> Thank you.

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>

> Doyle Dilley

>
> Consultant Services - HQ/CRC
>

> 360-705-7107 - Olympia

>
> 360-816-4036 - Vancouver CRC
>

> 360-878-0313 - Cell

>
>
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> From: Hamstra, Tom
> Sent: Tuesday, May 29, 2012 11:59 AM
> To: Dilley, Doyle; Mabey, Raymond
> Cc: Wylder, Lyn
> Subject: Revised Task AT

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> Here is Task revised with Dawson Associates as a subconsultant.

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> Thanks

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> Thomas C. Hamstra, PE

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> Deputy Consultant Project Manager
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> Columbia River Crossing

>
> 700 Washington Street

>
> Suite 300 360-816-2165 CRC
> Direct
>
> Vancouver, WA 98660 503-381-4175 Personal Cell
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> hamstrat@columbiarivercrossing.org
>
> tch@deainc.com
>
>
>
> *** eSafe2 scanned this email for malicious content ***
> *** IMPORTANT: Do not open attachments from unrecognized senders ***
> <SOW Task AT - Coast Guard Permit Strategy 2012-05-29.docx> <Task AT
> Budget - Coast Guard Permit Strategy 5-29-2012.xlsx>

Markgraf, Peter

From: Niemi, Mike
Sent: Thursday, June 21, 2012 5:13 PM
To: Dilley, Doyle
Cc: Wylder, Lyn; Mabey, Raymond; Strickler, Kris; Boyd, Nancy; Rust, Lynn; Hamstra, Tom
Subject: FW: Approval for work in Task AT
Attachments: SOW Task AT - Coast Guard Permit Strategy 2012-06-21.docx; Task AT Budget - Coast Guard Permit Strategy 2012-06-21.pdf; Email authorization 6-5-2012.pdf

I recommend approval for Y-9245, Task AT. The not to exceed amount is \$264,424.24. I understand Headquarters approval is required for some hourly rates. If this approval is obtained I can approve this task, otherwise headquarters approval is required.

Mike Niemi, PE
I-5, Columbia River Crossing Project
700 Washington Street, Suite 300
Vancouver, WA 98660
360-816-8884 (office)
360-624-8694 (cell)
niemim@columbiarivercrossing.com

From: Dilley, Doyle
Sent: Thursday, June 21, 2012 3:30 PM
To: Niemi, Mike
Cc: Mabey, Raymond; Strickler, Kris; Boyd, Nancy; Dilley, Doyle; Hamstra, Tom; Horowitz, Dann; 'Lyman, Jay'
Subject: FW: Approval for work in Task AT

Mike,

I recommend authorization of the Limited Notice to Proceed as specified in the request below. Authorization should reflect LNTP for hours and expenses in addition to the work previously authorized by email from Dave Dye (May 30, 2012).

Doyle Dilley
Consultant Services - HQ/CRC
360-705-7107 - Olympia
360-816-4036 - Vancouver CRC
360-878-0313 - Cell

From: Wylder, Lyn
Sent: Thursday, June 21, 2012 1:36 PM
To: Niemi, Mike
Cc: Mabey, Raymond; Strickler, Kris; Boyd, Nancy; Dilley, Doyle; Hamstra, Tom; Horowitz, Dann; Lyman, Jay
Subject: Approval for work in Task AT

Hi Mike,