

**City Of Woodland  
Council Agenda Summary Sheet**

<b>Agenda Item:</b>  Approval of consultant contract with BergerABAM for Scott Avenue Reconnection Project	<b>Agenda Item #:</b> <u>Action (H)</u> <b>For Agenda of:</b> <u>May 20, 2013</u> <b>Department:</b> <u>Public Works</u> <b>Date Submitted:</b> <u>May 15, 2013</u>
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**Cost of Item:** \$1,984,344  
**Amount Budgeted:** \$2,000,000  
**Unexpended Balance:** \$2,000,000

**BARS #:** 104 000 000 542 30 41 00  
**Description:** Street – Professional Services

**Department Supervisor Approval:** Public Works Department /s/ *Bart Stepp*  
**Committee Recommendation:** Public Works Committee voted 2-0 on 5/14/13 to forward to City Council with due pass recommendation

**Agenda Item Supporting Narrative (list attachments, supporting documents):**

- 1) Proposed Professional Services Agreement with BergerABAM
- 2) Exhibit A – Scope of Services
- 3) Exhibit C – Consultant Fee Determination (There is no Exhibit B)

**Summary Statement:**

Background:  
The City issues an RFP (Request for Proposals) in January for the Scott Avenue Reconnection Project. Five RFP's were received and reviewed by a Technical Committee made up of Bart Stepp, Carolyn Johnson, Nelson Holmberg (Port of Woodland), Ken Hash (WSDOT), Brad Bastin (Cowlitz County), and Rosemary Siipola (CWCOG). The Committee then interviewed the top 3 proposer's on March 29<sup>th</sup>. Following the interviews the Committee selected BergerABAM as the consultant.

Project Scope:  
Based on the needs of the project BergerABAM created a scope of services. PWD Stepp reviewed the scope and then sat down with BergerABAM to make sure they understood the changes I wanted. BergerABAM then submitted Draft #2 of the scope of services and the consultant fee determination that is in your packet. This scope has also been reviewed by the Technical Committee.

Staff Summary and Recommendation

Staff recommends that City Council approve the consultant contract with BergerABAM.

**PROFESSIONAL SERVICES AGREEMENT FOR  
Scott Avenue Reconnection Project,  
BergerABAM inc.**

THIS AGREEMENT is entered into between the City of Woodland, a municipal corporation, hereinafter referred to as "the City", and BergerABAM inc., hereinafter referred to as the "Consultant", in consideration of the mutual benefits, terms, and conditions hereinafter specified.

1. Project Designation. The Consultant is retained by the City to perform professional services in connection with completing the Scott Avenue Reconnection Project. This project includes environmental documentation, preliminary engineering, and possibly an interchange justification report.
2. Scope of Services. Consultant agrees to perform professional services services, per the scope of services attached as Exhibit "A" hereto, including the provision of all labor, materials, equipment and supplies.
3. Time for Performance. Consultant shall perform all services and provide all work product required pursuant to this agreement from May 2013 to May 2015.
4. Payment. The Consultant shall be paid by the City for completed work and for services rendered under this agreement as follows:
  - a. Payment for the work provided by Consultant shall be billed monthly for work performed under this agreement pursuant to the project scope attached as Exhibit "A". Consultant will provide invoice that includes breakdown of hours worked and expenses per the consultant fee determination attached as Exhibit "C".
  - b. The total budget of this agreement will not exceed \$1,984,344 unless this agreement is amended and approved the City of Woodland.
  - c. Payment as provided in this section shall be full compensation for work performed, services rendered and for all materials, supplies, equipment and incidentals necessary to complete the work.
  - d. The Consultant's records and accounts pertaining to this agreement are to be kept available for inspection by representatives of the City and State of Washington for a period of three (3) years after final payments. Copies shall be made available upon request.
5. Ownership and Use of Documents. All documents, drawings, specifications and other materials produced by the Consultant in connection with the services rendered under this agreement shall be the property of the City whether the project for which they are made is executed or not. The Consultant shall be permitted to retain copies, including

reproducible copies, of drawings and specifications for information, reference and use in connection with Consultant's endeavors.

6. Compliance with laws. Consultant shall, in performing the services contemplated by this agreement, faithfully observe and comply with all federal, state, and local laws, ordinances and regulations, applicable to the services to be rendered under this agreement.
7. Business License. All companies working with the City of Woodland must obtain a City of Woodland Business License prior to the City signing an agreement. Please call 360-225-8281 or go to our website [www.ci.woodland.wa.us](http://www.ci.woodland.wa.us) for more information.
8. Indemnification / Hold Harmless. The Consultant shall comply with all federal, state, and local laws and ordinances applicable to the work to be done under this agreement. This agreement shall be interpreted and construed in accord with the laws of the State of Washington.

The Consultant agrees, to the fullest extent permitted by law, to indemnify and hold harmless the City, its officers, directors and employees (collectively "the City") against all damages, liabilities or costs, including reasonable attorneys fees and defense costs, to the extent caused by the Consultant's negligent performance of professional services under this Agreement and that of its sub-consultants or anyone for whom the Consultant is legally liable.

The City agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Consultant, its officers, directors employees and sub-consultants (collectively "Consultant") against all damages, liabilities or costs, including reasonable attorneys fees and defense costs, to the extent caused by the City's negligent acts in connection with the project and the acts of its contractors, sub-contractors or consultants or anyone for whom the City is legally liable.

Neither the City nor the Consultant shall be obligated to indemnify the other party in any manner whatsoever for the other party's own negligence.

The Consultant's relation to the City shall be at all times as an independent contractor.

The Consultant specifically assumes potential liability for actions brought by the Consultant's own employees against the City and, solely for the purpose of this indemnification and defense, the Consultant specifically waives any immunity under the state industrial insurance law, Title 51 RCW. The ENGINEER recognizes that this waiver was specifically entered into pursuant to the provisions of RCW 4.24.115 and was the subject of mutual negotiation.

9. Insurance. The Consultant shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property

which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees.

### **Minimum Scope of Insurance**

Consultant shall obtain insurance of the types described below:

1. Automobile Liability insurance covering all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.
2. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, independent contractors and personal injury and advertising injury. The City shall be named as an insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the City.
3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.
4. Professional Liability insurance appropriate to the Consultant's profession.

### **Minimum Amounts of Insurance**

Consultant shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident.
2. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence, \$2,000,000 general aggregate.
3. Professional Liability insurance shall be written with limits no less than \$1,000,000 per claim and \$1,000,000 policy aggregate limit.

The limits of the above section may be waived or modified as approved by the City.

Waived  Modified to \_\_\_\_\_ Approved by Risk Manager \_\_\_\_\_

### **Other Insurance Provisions**

The insurance policies are to contain, or be endorsed to contain, the following provisions for Automobile Liability, Professional Liability and Commercial General Liability insurance:

1. The Consultant's insurance coverage shall be primary insurance as respect to the City. Any insurance, self-insurance, or insurance pool coverage maintained by the City shall be excess of the Consultant's insurance and shall not contribute with it.
2. The Consultant's insurance shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City.

### **Verification of Coverage**

Consultant shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work.

10. Independent Contractor. The Consultant and the City agree that the Consultant is an independent contractor with respect to the services provided pursuant to this agreement. Nothing in this agreement shall be considered to create the relationship of employer and employee between the parties hereto.

Neither Consultant nor any employee of Consultant shall be entitled to any benefits accorded City employees by virtue of the services provided under this agreement. The City shall not be responsible for withholding or otherwise deducting federal income tax or social security or for contributing to the state industrial insurance program, otherwise assuming the duties of an employer with respect to Consultant, or any employee of Consultant.

11. Covenant Against Contingent Fees. The Consultant warrants that he has not employed or retained any company or person, other than a bonafide employee working solely for the Consultant, to solicit or secure this contract, and that he has not paid or agreed to pay any company or person, other than a bonafide employee working solely for the Consultant, any fee, commission, percentage, brokerage fee, gifts, or any other consideration contingent upon or resulting from the award or making of this contract. For breach or violation of this warranty, the City shall have the right to annul this contract without liability or, in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.
12. Discrimination Prohibited. The Consultant, with regard to the work performed by it under this agreement, will not discriminate on the grounds of race, color, national origin, religion, creed, age, sex or the presence of any physical or sensory handicap in the selection and retention of employees or procurement of materials or supplies.

13. Assignment. The Consultant shall not sublet or assign any of the services covered by this agreement without the express written consent of the City.
14. Non-Waiver. Waiver by the City of any provision of this agreement or any time limitation provided for in this agreement shall not constitute a waiver of any other provision.
15. Attorney fees: In the event of a lawsuit, arbitration or other action to interpret or enforce any provision of this agreement brought by either party, then the prevailing party shall be awarded such sum for attorney fees as a court or arbitrator may deem reasonable, together with the costs associated with such suit, arbitration or action.
16. City's Right to Terminate Contract. Should the Consultant materially breach, or fail to perform any provision of the contract, the City, after thirty days' written notice to the Consultant, and its surety, if any, may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost thereof from the payment then or thereafter due the Consultant or, at the City's option, may terminate the contract and take possession of all materials, tools, appliances and finish the work by such means as the City sees fit.
17. Notices. Notices to the City of Woodland shall be sent to the following address:  
 Bart Stepp, Public Works Director  
 City of Woodland  
 PO Box 9; 300 E. Scott Ave.  
 Woodland, Washington 98674  
  
 Notices to Consultant shall be sent to the following address:  
 Jilma Jimenez, PE  
 BergerABAM inc.  
 33301 Ninth Avenue South, Suite 300  
 Federal Way, WA 98003-2300
18. Integrated Agreement. This Agreement together with attachments or addenda, represents the entire and integrated agreement between the City and the Consultant and supersedes all prior negotiations, representations, or agreements written or oral. This agreement may be amended only by written instrument signed by both City and Consultant.

DATED this \_\_\_\_\_ day of May, 2013

CITY OF WOODLAND

CONSULTANT

By \_\_\_\_\_  
 Mayor, Grover B. Laseke

By \_\_\_\_\_

**Exhibit A**  
**Scope of Services - *Draft #2***

**City of Woodland**  
**Scott Avenue Reconnection Project**  
**Environmental Documentation,**  
**Interchange Justification Report and**  
**Preliminary Engineering**

**Submitted to**  
**City of Woodland**  
**Woodland, Washington**

**May 2013**

**Submitted by**  
**BergerABAM Inc.**  
**33301 Ninth Avenue South, Suite 300**  
**Federal Way, Washington 98003-2300**

**Job No. A13.0386.00**

**EXHIBIT A  
SCOPE OF SERVICES**

**Scott Avenue Reconnection – Environmental Documentation,  
Interchange Justification Report and Preliminary Engineering**

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## ABBREVIATIONS

The following abbreviations are referred to throughout this scope of work.

APE	Area of Potential Effects
BA	Biological Assessment
CO	Carbon Monoxide
DCE	Documented Categorical Exclusion
DNR	Washington State Department of Natural Resources
DOE	Washington State Department of Ecology
EA	Environmental Assessment
ECS	Environmental Classification Summary
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
EnSA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
GIS	Geographic Information System
GSP	General Special Provisions
HOV	High-Occupancy Vehicle
IJR	Intersection Justification Report
I-5	Interstate 5
LAG	Local Agency Guidelines
LEP	Limited English Proficiency
LOS	Level of Service
MDNS	Mitigated Determination of Non-Significance

NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
PIP	Public Interaction Plan
PSRC	Puget Sound Regional Council
PS&E	Plans, Specifications, and Estimates
QA/QC	Quality Assurance/Quality Control
ROW	Right-of-Way
SEPA	State Environmental Policy Act
SOW	Scope of Work
SR	State Route
TAC	Technical Advisory Committee
TDM	Transportation Demand Management
TEEM	TDM Effectiveness Estimation Methodology
TESC	Temporary Erosion and Sedimentation Control
TNM	Traffic Noise Model
TSM	Transportation System Management
UCO	Urban Corridors Office
USACE	U.S. Army Corps of Engineers
USDOT	U.S. Department of Transportation
USFWS	U.S. Department of Fish and Wildlife Services
WDFW	Washington State Department of Fish and Wildlife
WSDOT	Washington State Department of Transportation

**EXHIBIT A  
SCOPE OF SERVICES  
SCOTT AVENUE RECONNECTION  
ENVIRONMENTAL DOCUMENTATION, INTERCHANGE JUSTIFICATION REPORT AND PRELIMINARY  
ENGINEERING**

**INTRODUCTION**

The City of Woodland (CITY) has identified one build alternative for the reconnection of East Scott Avenue across Interstate 5 (I-5) (PROJECT) in Cowlitz County, Washington. Under this scope of work (SOW), the CONSULTANT shall study this build alternative along with a maximum of five others and conduct activities leading to the selection of a proposed configuration for the PROJECT. Environmental effects of the proposed configuration will be evaluated in the preparation of a Documented Categorical Exclusion (DCE). In addition, the CONSULTANT shall conduct activities leading to the development of an interchange justification report (IJR). Work on the IJR shall be done in parallel and be part of the criteria for selection of the proposed action.

The environmental document shall be a combined National Environmental Policy Act (NEPA)/DCE and a State Environmental Policy Act (SEPA) Mitigated Determination of Non-Significance (MDNS) with an assumed year of opening of 2018 and a design year of 2040. It shall meet the requirements of the NEPA with respect to possible actions by the Federal Highway Administration (FHWA). The supporting NEPA documentation will be used to meet requirements of the SEPA.

The CITY reserves the right to add any or all of the following work to this agreement: right-of-way (ROW) plans, additional environmental documentation, plans, specifications, estimates, construction services, and additional services of an undetermined nature. At its option, the CITY may elect to do any or all of the additional work noted under separate agreements.

**PHYSICAL PROJECT LIMITS**

The immediate PROJECT area is approximately located along Scott Avenue from Down River Drive to Old Pacific Highway, and along I-5 from the Dike Access Road interchange to the SR 503/Lewis River Road interchange. The roads, intersections, and interchange improvements, if implemented, would reduce congestion and improve freight mobility in the Woodland industrial area. The PROJECT limits for the physical roadway improvements are anticipated to be as follows.

- On West Scott Avenue – From Down River Drive to I-5.
- On East Scott Avenue – from I-5 to Old Pacific Highway.
- On I-5 – at East/West Scott Avenue.

The PROJECT limits for the traffic analysis and modeling will include the physical roadway limits as stated above with the following additions.

### **Freeway**

- I-5 from Dike Access Road Interchange to SR 503
- West Scott Avenue from the railway crossing west of Down River Road to Down River Road

### **Intersections**

- In addition to the freeway segments listed above, and the interchanges within the limits of those segments, the project limits will include up to 17 intersections. Any new intersections created by the proposed access point revision will be included in the 17 intersection total. Alternative intersection configurations, geometries, and traffic control strategies do not constitute additional intersections.

### **SCOPE OF SERVICES**

This SOW details work elements needed to support the CITY in the selection of a preferred configuration, as well as NEPA and IJR documentation of the PROJECT. The SOW shall consist of the following major work elements.

- Work Element 1 – Project Management
- Work Element 2 – Public Involvement
- Work Element 3 – Consensus Building
- Work Element 4 – Base Mapping
- Work Element 5 – Configuration Selection
- Work Element 6 – Environmental Review and Documentation
- Work Element 7 – Travel Demand Forecasting
- Work Element 8 – Interchange Justification Report
- Work Element 9 – Preliminary Engineering

### **General Assumptions**

- All communications with resource agencies and the CITY will be coordinated through CITY's public works director and/or his designee, unless otherwise authorized.
- In addition to PROJECT limits identified above, it is assumed that intersections analyzed will be generally bounded by Dike Road to the north, Old Pacific Highway to the east, Lewis River Road and Davidson Avenue to the south, and North Pekin Road to the west.
- All aspects of coordination of the work completed by the CONSULTANT that is required with outside agencies, groups, or individuals shall receive advance approval by the CITY's Public Works Department. The DCE and IJR shall conform to the Washington State Department of Transportation (WSDOT) standards and shall be developed in accordance with the latest editions, amendments, and revisions of the publications listed in this document, including all updates. The CONSULTANT shall make changes or amendments

in the detail of work, as described within this SOW, as requested by the CITY, or as authorized as extra work.

- Work detailed in this SOW shall be completed in accordance with the schedule below and per the project schedule developed under Task 1.6.

**Phase 1 – Environmental Documentation, NEPA/ SEPA, IJR and Preliminary Engineering**

Consultant Notice to Proceed	May 2013
Preliminary Environmental Documentation	August 2013
Alternatives Development/Screening	November 2013
NEPA DCE Complete	April 2014
SEPA MDNS	April 2014
Draft IJR	May 2014
IJR Complete	July 2014
Preliminary Engineering	September 2014

- This SOW assumes that the CONSULTANT shall perform all design tasks necessary to complete the alternatives screening process and to support the selection of a recommended configuration.
- Traffic volumes generated from the 2035 AM and 2040 PM peak travel demand forecasting and preliminary operational analysis data for year 2040 AM and 2040 PM peak will be used in the alternatives screening process.
- The CONSULTANT shall operate similar to and shall fully support the CITY's Public Works Department. When alternatives are being considered or decisions are being made, the CITY, along with WSDOT and/or FHWA, will make final decisions.
- For any field investigations, acquiring the permission of private landowners whose property would be visited will be the responsibility of the CITY. Permission must be obtained prior to fieldwork on privately owned land. Right-of-entry permits may take up to 60 days to acquire.
- The CONSULTANT shall use the following computer software in the performance of the engineering and design work for this contract. All files shall be provided in an IBM-compatible format.
  - Engineering software: InRoads (version 08.08.00.46, or latest)
  - CAD software: Bentley MicroStation (version 8.05.02.70, or latest) and AutoCAD (version currently used by CITY)
  - Drainage software: Stormshed and MGS Flood w/Continuous Rainfall Model
  - Scheduling software: Microsoft Project or Primavera P6

- Microsoft Office, Word, Excel (latest version)
- English units for plans, engineering, and environmental documents
- It may be necessary for the CITY and WSDOT to acquire ROW for this project.
- The PROJECT will not require a Section 404 permit.
- When used, the term “minor revisions,” denotes revisions that address typographical, and/or grammar edits; and or specific comments from a reviewer that do not require additional analysis and that will not expand the scope of work and/or prior work findings.

### **Work Performed by the CITY**

Throughout the duration of the project, the CITY will perform services, furnish information, and answer questions on CITY standard procedures for plan preparation.

The following services will be performed by the CITY.

- The CITY will acquire any rights-of-entry required to perform this task work.
- The CITY will assist the CONSULTANT, if required, in obtaining information from and/or coordination with other agencies.

### **WORK ELEMENT 1: PROJECT MANAGEMENT**

The CONSULTANT shall conduct general Project Management and Project Administration activities throughout the life of the PROJECT. Management and Administration activities will include Quality Control, Monthly Progress Reporting and Billing, and Progress Meetings as described in Subtasks 1.1 to 1.5 below.

#### **Task 1.1 – Implement Quality Control Program**

The CONSULTANT shall conduct quality control on all PROJECT deliverables as outlined in BergerABAM’s internal Quality Assurance/Quality Control Plan.

#### **Task 1.2 – Monthly Progress Reports and Billings**

The CONSULTANT shall prepare monthly progress reports, in a form approved by the CITY, that outlines in written and graphical forms the various phases of the work, and the order of performance, in sufficient detail so that the progress of the work can be easily evaluated. These reports shall

- Highlight project milestones
- Target potential problem areas needing special attention or coordination prior to delays occurring and provide a proposal for addressing problem areas
- Outline activities planned for the next period
- Compare actual work progress with contractual obligations

- Show the current and cumulative financial status of the DCE project
- Show work complete (%) versus budget expended (%) for major tasks

Progress reports shall include current scheduling reports, indicating all progress to date and resources expended. Progress shall be monitored and reported in diagram and quantitative forms to present a clear, concise, and understandable picture of the project status. This update shall also include any changes in schedule, sequence, or resource loading. If any schedule delays have occurred, a plan for bringing the work back on schedule, and back on budget, shall be included.

Invoices shall be prepared by the CONSULTANT in a form and detail as approved by the CITY, and submitted on a monthly basis. These shall be supported by detailed record keeping closely tracking the project budget and expenditures.

**Deliverables**

- Monthly progress reports, incorporating project schedule revisions as appropriate (electronic copy)
- Monthly invoices

**Task 1.3 – Biweekly Progress Meetings**

The CONSULTANT and a representative from the CITY’s Public Works Department shall meet on a biweekly basis to review the progress of the project. Meetings shall be conducted on an informal basis and held at the CONSULTANT’s Vancouver office, or a location chosen by the CITY. It is assumed that there shall be 26 biweekly progress meetings. Progress meetings shall include in attendance two staff (on average) from the CONSULTANT at each meeting, in addition to representatives from subconsultant team members when appropriate.

**Deliverables**

- Twenty-six meeting agendas
- Twenty-six meeting notes

**Task 1.4 – Project Administration**

The CONSULTANT shall coordinate with subconsultants regarding contracting procedures, shall prepare and execute contracts with individual subconsultants, and shall address contract-related issues with the subconsultants as they arise during the project. As part of this Task, the CONSULTANT shall also provide as-needed support to the CITY in the internal administration functions of the PROJECT. This support may include participation at Council briefings and or internal CITY memo preparations.

**Assumptions**

- The CONSULTANT shall participate in a maximum of 4 Council briefings and prepare a maximum of 12 internal CITY memos.

### **Task 1.5 – Project Schedule**

The CONSULTANT shall prepare a project schedule that includes completion of all items identified in this SOW.

The CONSULTANT's project manager shall conduct the project tracking, document control, and coordination efforts necessary for project execution. These efforts shall include the continuous tracking of schedules, budgets, and products; coordination with subconsultants relating to work in progress; and coordination with WSDOT.

## **WORK ELEMENT 2: PUBLIC INVOLVEMENT**

### **Task 2.1 – Public Involvement Plan**

The CONSULTANT will develop a public involvement plan (PIP) that includes the following elements.

- Public involvement goals (i.e., education on the project and environmental process, effective stakeholder engagement), and public involvement schedule
- Target audiences (i.e., businesses, community groups, public agencies, Tribes, key stakeholders, public officials, and broader public interests)
- Outline the focus and timing of the stakeholder, community, and public open house meetings
- Identify communication tools (newsletters, posters, interactive web site, presentations and media release content), including approaches to solicit input of those traditionally underserved by transportation (environmental justice and Title VI populations)
- The procedures for acknowledging, considering and responding to public comments

To develop the necessary background information to complete the PIP, the CONSULTANT will:

- Create an aerial map of the project area with property ownership and businesses labeled on the map.
- Gather demographic data from the 2010 Census to identify the general locations of minority and low-income populations within the study area. The 2010 Census data and local school districts data shall also be reviewed to determine if populations in the study area will require special accommodations in compliance with the Limited English Proficiency (LEP) Act to include citizens who may traditionally be left out of the public process. This data is collected in Task 6.9, Environmental Justice. The CONSULTANT shall modify this public process as appropriate for the specific customers identified for these project improvements, and shall use this process outline as Appendix A of the draft study plan. Demographic data will be used in the preparation of NEPA documents outlined in Tasks 6.8, 6.9, and 6.10..

**Assumptions**

- CITY will respond to all media inquiries and serve as the public information officer for this PROJECT
- CITY will provide input on targeted audiences
- The CITY will provide any additional information on hand regarding minority and low-income communities, and any known stakeholders from these communities that should be engaged in the design process.

**Deliverables**

- Minority and low-income population maps
- Property and business ownership aerial map
- Draft PIP (electronic copy) (one review)
- Final PIP (electronic copy) (one review)

**Task 2.2 – Stakeholder Interviews**

As part of developing the Public Involvement Plan and in coordination with the CITY, the CONSULTANT will identify up to 25 key stakeholder interviews. The stakeholders are likely to include local businesses and neighborhood representatives within the project area, key community leaders, and others in the community with a significant interest in the project as identified by the CITY. The purpose of the interviews is multi-dimensional: To understand their expectations (and/or concerns) about the project, to learn the most effective means of communicating with and providing information to them, and to consider feedback from these interviews as part of the alternative design process. At the conclusion of the interviews, the CONSULTANT will prepare a summary of comments received along with a set of critical observations. To promote candor, summary comments shall not be attributed to individuals.

**Assumptions**

- Up to 25 stakeholders will be identified for interviews
- The CITY will provide email and phone contact info for each stakeholder identified
- Two reviews of stakeholder questions by the CITY
- CONSULTANT will schedule and conduct all interviews
- CITY will provide accessible venue(s) to conduct interviews

**Meetings**

- One meeting with the CITY to identify stakeholders to interview and to develop draft questions

**Deliverables**

- Initial development of proposed stakeholders list for interview

- Draft and final interview questions (one review)
- Up to 25 stakeholder interviews
- Draft (one review) and final summary report of stakeholder findings and key observations

### **Task 2.3 – Newsletters and Posters**

The CONSULTANT shall prepare one initial project newsletter and up to three updates as the project design progresses. The target audience shall be based on a zip code mailing, as identified in the PIP described in Task 2.1 and key stakeholders identified by the CITY. The CONSULTANT will finalize, print, and mail the newsletters and provide the CITY copies for distribution at CITY offices. In addition to mailing, these newsletters will each be posted to the project website and distributed by the CONSULTANT in printed format to area businesses and other locations that receive public foot traffic. Alternative language versions of the newsletters can be provided if census analysis identifies trigger level populations of minority or low-income residents as defined under NEPA/Title 6.

The CONSULTANT shall also prepare a project poster announcing the open house meeting described in Task 2.3 below. The CONSULTANT shall produce and post the final posters at businesses and other conspicuous, highly visible public locations in the project area. The CONSULTANT shall translate and post in locations that will capture the attention of those identified groups typically not included in transportation planning. Alternative language versions of the newsletters can be provided if census analysis identifies trigger level populations of minority or low-income residents as defined under NEPA/Title 6.

#### **Assumptions**

- The CONSULTANT will handle printing and mailing of newsletters and printing of posters.
- One alternate language translation of Newsletter or Poster (3 times max).
- All printed and/or emailed information will include link URL to website which will be identified as the project information hub

#### **Deliverables**

- One original newsletter and up to 3 updated newsletters for mailing (one draft review and one final for each)
- Posters (one draft review and one final)

### **Task 2.4: Project Website**

The CONSULTANT will design, host, and maintain a robust, interactive web site with five to eight web pages that will provide detailed information about the project. It will contain a home page, a how to get involved page, an explanation of the project, a project schedule, notices of upcoming events, pertinent project documents, photos of the site, sign up option to receive project email updates, and a comment section for public questions and feedback. The CONSULTANT will complete substantive updates to the site up to five times as the project

progresses, but in no case should the site support more than the stated 8 pages. In addition, CONSULTANT will add new project documents routinely as they become available.

Prior to the open house, one major update will include adding all of the open house information to the website, creating an online version of the in-person public event, including the opportunity to comment on each of the potential design alternatives.

In the interest of sustainability practices, project materials will be posted on the website and persons attending the public meetings will be provided information directing them to the website and what they will find there.

#### **Assumptions**

- The CITY will provide prompt reviews of website outline, content drafts, and design drafts (1 review each)
- The CITY will provide review and comment within 2 working days on content to be added to the site after the initial launch
- The CONSULTANT will purchase a web site URL and host the website. The site will include 5-8 pages
- The CITY will reimburse the CONSULTANT for all website setup expenses
- All printed and/or emailed information will include link URL to website which will be identified as the project information hub
- The CITY will provide a link to the project home page from the CITY website

#### **Deliverables**

- Fully functioning website with up to 8 pages of content, hosted by the CONSULTANT
- Up to five substantive updates will be made and, when applicable, new content added to the website

#### **Task 2.5 - Open House**

The CONSULTANT shall support the CITY in the planning, preparation, and facilitation of the public open house. The focus of the open house will be to inform local residents, area businesses, property owners, and the community at large of the project features and schedule, and gather input on the design alternatives. The CITY will identify and secure an appropriate venue (location) for the open house.

The CONSULTANT will develop a public meeting plan that identifies process, format, necessary displays, staffing for the meeting, advertising/public notice needs, and preparation schedule. The CONSULTANT will prepare all open house materials, including exhibits and/or other materials such as a PowerPoint presentation, comment forms/questionnaires, sign-in sheets, staff name tags and meeting signage. Limited copies of the most current project

newsletter will also be available explaining the project background, purpose and need of the project, project area, project schedule, design alternatives, and project contact information. All printed materials will promote the available online open house option for people unable to attend the live event. Exhibits will be developed that identify the project area, proposed alternatives, areas of impact, alternative evaluation criteria, and the project schedules. The comment form shall solicit comments from the meeting attendees. The CONSULTANT will prepare a summary of the meeting including tabulation of the written comments received.

#### **Assumptions**

- The CITY will provide key staff to attend the open house
- Open house will be advertised through the posters and/or mailed newsletter described in Task 2.2, and through display advertising in the local newspaper
- All printed and/or emailed information will include link URL to website which will be identified as the project information hub

#### **Meetings**

- One open house planning meeting with CITY staff

#### **Deliverables**

- Preparation of a public meeting plan (one draft and one final)
- Set-up, staffing, and facilitation of public open house meeting
- Meeting notes (electronic copies) (one draft and one final)
- Meeting materials: sign-in sheets and comment forms (electronic copy plus hard copies for the meeting)
- Updated project website to include interactive, online open house opportunity
- One summary of written comments received from open house
- Maximum of six 2- by 3-foot exhibits/boards (one draft and final)

### **WORK ELEMENT 3: CONSENSUS BUILDING**

#### **Task 3.1 – Chartering Meeting**

The CONSULTANT shall plan and host a 2-hour team chartering session to confirm roles and responsibilities of the Executive Committee, Technical Advisory Committee (TAC), and Project Advisory Group as well as endorse an overall decision process, project goals and objectives, and project hindrances and opportunities. The CONSULTANT shall facilitate chartering and prepare a team chartering technical memorandum outlining the overall project goals and objectives, roles and responsibilities, and decision process. The CITY will facilitate gaining consensus on the memorandum from EC, TAC and PAG members.

**Deliverable**

- Endorsed team chartering technical memorandum

**Task 3.2 – Technical Advisory Committee Support**

The TAC has been formed and consists of the members that reviewed the RFP's and interviewed the consultants. The CONSULTANT shall serve the TAC in an advisory capacity and as a meeting facilitator and organizer, and shall not be included as a member of the team. The TAC's participation in the PROJECT will loosely follow some of the guidelines in Section 220.04 (3) of WSDOT's Design Manual. The CONSULTANT shall provide support to the CITY at a maximum of 12 TAC meetings. The CONSULTANT will, in collaboration with the CITY, prepare a draft and final TAC charter and operational protocols, meeting agenda, distribute meeting notices to the members of the TAC, facilitate TAC meetings, and prepare and distribute meeting summaries to TAC members.

**Assumption(s)**

- TAC meetings will be held either at the Port office or City Council Chambers.
- The CITY will prepare and process selection/appointment letters to the TAC members.

**Meeting(s)**

- Maximum of twelve 2-hour meetings

**Deliverable(s)**

- Draft and final TAC charter and operational protocols
- Meeting agendas, notification, facilitation, and summaries for twelve meetings (one electronic copy)

**Task 3.3 – TAC Recommendation on the Proposed Configuration**

Included in Task 5.4.

**Task 3.4 – Executive Committee Support**

The CITY will identify, recruit and/or appoint potential EC members. The CONSULTANT shall serve the EC in an advisory capacity and as a meeting facilitator and organizer, and shall not be included as a member of the team. The CONSULTANT shall provide support to the CITY at a maximum of four EC meetings. The CONSULTANT will, in collaboration with the CITY, prepare a draft and final EC charter and operational protocols, meeting agenda, distribute meeting notices to the members of the EC, facilitate EC meetings, and prepare and distribute meeting summaries to EC members.

**Assumption(s)**

- EC meetings will be held at the CITY office
- The CITY will determine the makeup and number of individuals on the PROJECT's EC. The CITY will prepare and process selection/appointment letters to the EC members.

**Meeting(s)**

- Maximum of four 2-hour meetings

**Deliverable(s)**

- Draft and final EC charter and operational protocols
- Meeting agendas, notification, facilitation, and summaries for four meetings (one electronic copy)

**Task 3.5 – Project Advisory Group Support**

The CONSULTANT will work with the CITY to identify potential PAG members. The CITY will recruit and/or appoint potential PAG members. The CONSULTANT shall serve the PAG in an advisory capacity and as a meeting facilitator and organizer, and shall not be included as a member of the team. The CONSULTANT shall provide support to the CITY at a maximum of six PAG meetings. The CONSULTANT will, in collaboration with the CITY, prepare a draft and final PAG charter and operational protocols, meeting agenda, distribute meeting notices to the members of the PAG, facilitate PAG meetings, and prepare and distribute meeting summaries to PAG members.

**Assumption(s)**

- PAG meetings will be held in the CONSULTANT's office
- The CITY will determine the makeup and number of individuals on the PROJECT PAG. The CITY will prepare and process selection/appointment letters to the PAG members.

**Meeting(s)**

- Maximum of six 2-hour meetings

**Deliverable(s)**

- Draft and final PAG charter and operational protocols
- Meeting agendas, notification, facilitation, and summaries for six meetings (one electronic copy)

**WORK ELEMENT 4: BASE MAPPING****Task 4.1 – Survey and Base Map**

The CONSULTANT will prepare a refined topographic base map of the project area described in the PROJECT limits section of this contract using GIS data, and existing base mapping information provided by the CITY. The CONSULTANT shall use this GIS base map to develop initial PROJECT alternatives. The initial GIS base map shall also include known location of existing utilities as identified via GIS and field observations. Once the alternatives have been screened, the CONSULTANT shall perform additional topographic survey to obtain more

precise information as it relates to number and size of properties and or natural features that may or will be affected by the top alternatives.

#### **Assumptions**

- The CITY will provide available base mapping information.
- The CITY will obtain GIS property line data from the County.
- The CITY will obtain base mapping information of I-5 and SR 503 from WSDOT.
- The CITY will obtain necessary rights-of-entry required to conduct field surveying. The CONSULTANT will prepare all paperwork associated with obtaining rights-of-entry.
- Initial utilities investigation will not include pot-holing and/or exact positioning of utilities.
- Additional (non-GIS) topographic survey will not exceed 10 acres in size.
- Right-of-way and property boundary information will be provided by the CITY in electronic shapefile format.
- Additional topographic survey may be needed to perform preliminary engineering design. Contract will be supplemented to include effort needed to perform additional survey for preliminary engineering.

#### **Deliverables**

- Copies of field notes
- Survey control worksheet – paper copy
- Coordinate point data listing – paper copy and ASCII file
- Engineering base map and digital terrain model – MicroStation and AutoCAD

### **WORK ELEMENT 5: CONFIGURATION SELECTION**

#### **Task 5.1 – Develop Screening Process for Alternatives and Matrix**

The CONSULTANT shall develop a two-level screening process to rate alternatives and identify the configuration that will best address the goals of the PROJECT. The first level of screening (Level 1) will serve to identify and eliminate fatally flawed alternatives. All fatally flawed alternatives will be excluded from further analysis or consideration. The CONSULTANT shall document reasons for fatal flaw rating. The second level of screening (Level 2) will be a more detailed analysis that will include all identified environmental disciplines, traffic analysis using the Woodland Transportation Infrastructure Strategic Plan (2008) and the Traffic Impact Study for the New Woodland High School (2012) traffic operations and travel demand models, and a cost benefit analysis as described in Task 5.3.

The CONSULTANT shall develop screening criteria and a screening/decision matrix as a numerical and/or rating system to document the quantitative comparison of alternatives being

screened. Screening criteria shall include the ability for the alternative to obtain IJR approval by WSDOT and/or FHWA, as well as compatibility with the PROJECT's purpose and need statement. The screening matrix may contain criteria, such as transportation, cost, impacts, and environmental factors. The CITY and the TAC will use the matrix for comparing and selecting alternatives.

#### **Deliverables**

- Draft screening criteria (electronic copy)
- Final screening criteria (electronic copy)
- Screening/decision matrix (10 hard copies)

#### **Task 5.2 – Alternatives Evaluated**

The CONSULTANT shall evaluate build alternatives, limited construction alternatives, and the no-action/build alternative.

##### **Task 5.2.1 – Identification of Alternatives and Brainstorming Session**

The CONSULTANT shall develop alternatives to meet the established goals for the PROJECT. As part of this work, the CONSULTANT will host a brainstorming session with TAC and PAG members and/or other CITY personnel to identify potential build alternatives. The CONSULTANT will develop a maximum of five new alternatives, along with the starting point alternative. Thus, a maximum of six build alternatives will be analyzed in the alternatives screening effort. Each build alternative shall meet the criteria shown in Title 23-CFR, Part 771, Section 111(f)(1), (2), and (3).

- Connect logical termini and be of sufficient length to address environmental matters on a broad scope
- Have independent utility or independent significance (i.e., be usable and be a reasonable expenditure even if no additional transportation improvements in the area are made)
- Not restrict consideration of alternatives for other reasonably foreseeable transportation improvements

The CONSULTANT shall prepare maps and plans or sketches showing the existing, and each of the proposed build alignment alternatives, typical roadway sections and project limits, to aid the TAC in their evaluation and screening efforts. The CONSULTANT shall summarize the configuration and attributes of each of the build alternatives in a technical memorandum.

#### **Assumption**

- The CONSULTANT will perform engineering design of build alternatives to a maximum of 5 percent level.

#### **Meeting**

- One brainstorming session meeting

**Deliverable**

- Technical memorandum describing build alternatives with graphics (electronic copy)

**Task 5.2.2 – Limited Construction Alternatives**

The CONSULTANT will analyze a maximum of 20 limited and/or no construction alternatives as discussed in this section. These alternatives evaluate whether other improvements or strategies could meet the purpose and need of the proposed project. The analysis conducted on these alternatives will be a high-level planning analysis and will not include detailed level-of-service and quantification of traffic operations. Limited construction alternatives will include: transportation system management (TSM), increased use of carpools, staggered work hours, expanded mass transit, and improving the existing facility as described below. The transportation demand management (TDM) and TSM TEEM model developed by WSDOT will be used to assist with the analysis of TDM and TSM alternatives.

***Transportation System Management Alternative:*** The FHWA Technical Advisory T 6640.8A, page 15, shall provide the guidance for this alternative. The CONSULTANT shall confirm with text that this alternative does or does not meet the purpose and need of this project as a stand-alone alternative. This limited construction alternative is usually relevant only for major projects proposed in urbanized areas over 200,000 populations. The TSM alternative includes those activities that maximize the efficiency of the present system. Possible subject areas to include in this alternative are options, such as fringe parking, ridesharing, high-occupancy vehicle (HOV) lanes on existing roadways, and traffic signal timing optimization.

***Increased Use of Carpools Alternative:*** The CONSULTANT shall confirm with text how this alternative may or may not meet the purpose and need of the PROJECT. Factors to consider would be the origin/destinations of trips (the number of trips of a recreational nature [tourist] into and out of the region, cargo to and from the east, etc.), if there exists or are planned park and pool lots in the corridor, and if there is a ride matching service available in Cowlitz and Clark counties.

***Staggered Work Hours or the Four-Day Work Week Alternative:*** Although not within the jurisdiction of the FHWA or WSDOT, the CONSULTANT shall discuss how this alternative may or may not contribute to meeting the purpose and need for the project.

***Expanded Mass Transit Alternative:*** The FHWA Technical Advisory T 6640.8A, page 15, shall provide the guidance for this alternative. This alternative includes those reasonable and feasible transit options (bus systems, rail, etc.) even though they may not be within the existing FHWA funding authority.

***Improving the Existing Facility Alternative:*** This alternative would typically involve non-major construction, such as localized widening for additional truck climbing/slow vehicle passing lanes, safety improvements, and upgrading the existing highway through resurfacing and channelization projects.

**Local Street Alternatives:** This alternative would typically involve improvements, and upgrading the surrounding network of local road. Projects included in the CITY's Capital Improvement Program would be considered under this alternative. This alternative would evaluate whether local street improvements could potentially eliminate the need for the proposed improvements.

**Task 5.2.3 – No-Action Alternative**

The CONSULTANT shall use existing maps, as-built drawings, and/or survey data to establish the features and configuration of the No-Action Alternative.

**Task 5.3 – Geotechnical Reconnaissance Memo**

The CONSULTANT shall prepare a Preliminary Geotechnical Site Evaluation Memorandum in support of the Configuration Selection. This memorandum shall contain:

- A summary of the geologic and geotechnical site conditions, including seismic hazards, based on a review of readily available geologic maps, geotechnical reports, and existing subsurface information, and an engineering geologic site reconnaissance. No subsurface explorations will be performed as part of this scope of services.
- An evaluation of foundation and/or ground improvement alternatives suitable for support of the preferred configuration structures and embankments.
- An evaluation of retaining structures suitable for the preferred configuration.
- An evaluation of the design configuration alternatives with respect to in-place soil and/or groundwater contamination remedies and remaining contamination that are identified by others.
- Geotechnical construction considerations as they relate to selection of the preferred configuration.
- Anticipated scope of future geotechnical work required to fully evaluate PROJECT site and to complete geotechnical PROJECT design.

**Assumption(s)**

- The CITY will provide the CONSULTANT copies of geotechnical reports submitted to the CITY Planning and Building Department for other developments in the vicinity of the PROJECT.

**Deliverable(s)**

- Draft Preliminary Geotechnical Site Evaluation Memorandum (electronic copy)
- Final Preliminary Geotechnical Site Evaluation Memorandum (electronic copy and 5 hard copies)

#### **Task 5.4 – Alternatives Screening**

The CONSULTANT shall conduct the two-level screening of alternatives per the identified criteria developed in Task 5.1 above. The CONSULTANT shall prepare a technical memorandum on fatal flaw screening following the completion of the Level 1 screening process. For purposes of estimating, a maximum of six build alternatives will be carried forward into the Level 2 screening. Following the completion of the Level 2 screening, the CONSULTANT shall prepare a position paper as a recommendation for review by the TAC to document the process and results of screening. The alternatives shall fall into the two categories of “Alternatives Considered and Rejected” and “Proposed Action.” A concise discussion of how and why the Proposed Action was selected for detailed study and why other alternatives were eliminated from a detailed study shall be included in the alternatives analysis. The alternatives analysis will be used as a basis for discussion of alternatives in the IJR.

#### **Deliverables**

- Technical memorandum on Level 1 (fatal flaw) screening (one electronic and 10 hard copies)
- Technical memorandum on Level 2 screening (one electronic copy and 10 hard copies)
- Position Paper for TAC and PAG review

The TAC will make a recommendation for a proposed action to be documented and further analyzed in the DCE and IJR. The CONSULTANT shall prepare and submit the draft TAC recommendation letter to the TAC to concur with or modify. This recommendation shall contain

- A description of all alternatives considered
- A description of the alternative to be considered in the DCE and IJR, and why it was chosen
- Identification of impacts and possible mitigation
- A discussion of controversial areas and coordination proposed to resolve them
- Identification of any changes in the proposal as originally defined, and why changes were made

As part of this task element, the CONSULTANT shall make briefings to CITY Council, Port and/or other entities that will participate in the final selection of the preferred configuration.

#### **Assumption**

- A maximum of four briefings shall be assumed for this work element.

#### **Deliverables**

- Draft TAC recommendation letter (one electronic copy and 10 hard copies)
- Final TAC recommendation letter (one electronic copy and 10 hard copies)

### **Task 5.5 – Value Engineering Study**

Following the identification of the recommended configuration and sufficient completion of the preliminary engineering tasks described in Work Element No. 9 , the CONSULTANT shall conduct a Value Engineering (VE) study of that will examine a maximum of four alternatives. The value engineering (VE) study for the Scott Avenue Reconnection Project, City of Woodland, will take a two-phase approach and follow the SAVE International six-step VE methodology which conforms in scope, content, and product with the criteria of the Federal Highway Administration’s Value Engineering Policy and the Washington Department of Transportation Design Manual Chapter 310 value engineering guidance. The first phase will include design alternatives review and analysis, identification of a VE team (VET) recommended alternative(s), and VE options to improve on the recommended alternative(s). Phase one will be completed following screening of design alternatives by the project design team (PDT) and prior to preparation of a recommendation letter to the technical advisory committee (TAC) and selection of the preferred alternative by the City.

The second phase will include a detailed review of the 25% design documents of the preferred alternative and analysis of VE options to improve the design. Phase two will be completed following completion of the 25% design and cost estimate. The VET will consist of independent engineering consultants who are experienced in the design and construction of transportation and bridge projects and who are not involved in the design of the Scott Avenue Reconnection Project.

#### VE Methodology

In accordance with the six-step VE methodology, each phase of the study will begin with the information step in a kick-off meeting with the TAC and PDT and progress through function analysis, creative speculation, evaluation and alternatives development, concluding with a presentation of study results back to the TAC and PDT.

#### Phase 1 Approach

Our approach will generally follow the sequence below:

- The PDT project manager and VE facilitator will hold a pre-study conference call one to two weeks prior to the study with representatives of the City to gain an understanding of the issues of concern and expectations for the study.
- The VET will meet with the TAC and PDT the morning before the study workshop to be briefed on the project goals, determine functions the project must accomplish, and prioritize performance factors for evaluating the design alternatives. The PDT and VET will tour the site after lunch, followed by a presentation by the PDT of the design alternatives, constraints and issues.
- The following day, the workshop will begin with the VET discussing observations from the design presentation and site visit. The team will analyze the problem(s) to be solved

and project requirements to better understand the functions the project must deliver to be successful. Over the next two days, the VET will analyze the design alternatives relative to the project goals, functional requirements, project constraints, technical considerations, budget and performance factors. The VET will document the analysis and findings to substantiate a VET recommended alternative(s).

- On the third day of the workshop, the VET will brainstorm ideas to improve the recommended alternative(s). The ideas will be evaluated relative to the performance factors with ideas having merit analyzed further and documented.
- The workshop will be followed by a results presentation meeting, where the VET will report on the analysis, findings and recommendations for consideration by the TAC and PDT in preparation for recommending a preferred alternative to the City.
- Over the following week, a report summarizing the VET findings and recommendations will be prepared and submitted for review by the TAC and PDT. The report will include analysis of each design alternative, the VET recommended alternative(s), and review of the proposed VE improvements.

## Phase 2 Approach

Our approach will generally follow the sequence below:

- The PDT project manager and VE facilitator will hold a pre-study conference call one to two weeks prior to the study with representatives of the City to review the pending study and identify focus areas.
- The VET will meet with the TAC and PDT the morning before the study workshop to be updated on the project goals, performance objectives, design concept, constraints and issues, budget and estimated project cost. The VET will have access to the 25% design and time allocated to review the documents prior to this meeting.
- The following day, the workshop will begin with the VET discussing observations from the design presentation and review of the documents. The team will analyze the problem(s) to be solved, required functions, and performance factors to evaluate how well the design is meeting these requirements. With this understanding, the team will brainstorm ideas to meet the functional requirements and improve project value. The ideas will be evaluated and scored relative to the performance factors. The team will commence analysis of the ideas selected for development into VE alternatives.
- On day two of the workshop, the VET will analyze, price, and illustrate the alternative concepts selected in the evaluation phase. We will prepare write-ups documenting the analysis of the VE alternatives.

- The last day of the workshop will include finalizing and reviewing the VE analysis and write-ups for accuracy, consistency and clarity. The team will prepare findings and recommendations for reporting workshop results to the TAC and PDT.
- At the results presentation meeting, the VET will report on the findings, analysis and recommendations for consideration by the TAC and PDT. The meeting will not be a decision making meeting, but intended to brief the participants on the study outcome and answer questions.
- Over the following week, a draft report will be prepared and submitted for review by the TAC and PDT. The report will include a summary of findings and recommendations, the write-ups for each VE alternative, and background information. At the conclusion of the draft report review, a meeting will be held to determine which VE alternatives will be accepted, either in whole or in part, for implementation. Following receipt of information on implementation decisions, the final VE report will be completed and issued.

**Assumptions**

- XXXXX

**Deliverables**

- Value Engineering Report (one electronic)
- Evaluation and Recommendation of VE Improvements Memo (one electronic and 5 hard copies)

**Task 5.5 – Alternatives Summary Report**

The CONSULTANT shall prepare an Alternatives Summary Report that documents the process and the findings of all effort leading to the identification of the preferred configuration. The report shall be prepared following the Value Engineering Study described in Task X.X and shall include the following sections.

- Executive Summary
- Project Background
- Project Purpose and Need
- Public Involvement
- Technical Committees
- Alternatives Developed
- Traffic modeling
- Alternatives Screening
- Recommended Configuration
- Value Engineering Recommendations

**Deliverables**

- Draft Alternatives Summary Report (one electronic copy)
- Final Alternatives Summary Report (one electronic copy and 5 hard copies)

## **WORK ELEMENT 6: ENVIRONMENTAL REVIEW AND DOCUMENTATION**

### **Task 6.1 – Project Purpose and Need**

The purpose (what the CITY proposes) and need (why the CITY proposes the project) establishes why the CITY is proposing an action, which may potentially cause environmental impacts (both positive and negative). It provides the basis for selecting reasonable and practicable alternatives for consideration, analyzing those alternatives, and is an important factor in ultimately selecting the Proposed Action. The CONSULTANT shall work with the CITY in developing the purpose and need for the TAC's concurrence. In the document, the purpose and need shall be separated into two sections (purpose, need) to make the distinction and emphasis clear.

#### **Assumption**

- One round of minor revisions to draft purpose and need letter

#### **Deliverables**

- Draft purpose and need memorandum (one electronic copy)
- Final purpose and need memorandum (one electronic copy and five hard copies)

### **Task 6.2 – Agency Coordination and Environmental Methods and Assumptions Memorandum**

Because the level of technical detail necessary to satisfy the NEPA review can vary greatly depending on the circumstances of the project and the particular staff members assigned to it, the CONSULTANT shall conduct an early kickoff meeting with WSDOT Southwest Region local programs staff prior to the preparation of NEPA documents. This meeting is intended to reach an understanding common to the project team and agency staff regarding review protocols and the level of detail needed to support the environmental considerations included in the environmental classification summary form (ECS) that will be prepared for the project. For this meeting, the CONSULTANT shall prepare a memorandum of methods and assumptions that will document the team's expectations regarding review protocols. The memorandum will include:

- Verification of the agencies responsible for NEPA and SEPA review and identification of staff contacts
- Determination of the level of documentation necessary for SEPA review (i.e., SEPA checklist or incorporation of the NEPA record by reference)
- Affirmation of the level of technical support documentation to be provided consistent with the scope of services

To provide certainty regarding the review process and a strong foundation of understanding upon which the team may move forward, it is intended that agency staff attending this early kickoff meeting provide specific direction and feedback on these issues.

In addition to this early kickoff meeting, it is expected that a meeting will likely occur just before the first submittal of the ECS form and supporting technical documents, and that two additional meetings will occur during agency review.

#### **Assumptions**

- Meetings with agency staff will occur either on site or within a 1/2-hour drive of the project site.
- CITY review of the draft methods and assumptions memorandum will be limited to one review cycle.
- Meeting notes will be prepared and distributed for meetings with agency staff

#### **Deliverable(s)**

- Preparation for and attendance by up to two CONSULTANT planning and environmental staff at up to 5, 1-hour NEPA team meetings
- Draft methods and assumptions memorandum for environmental documentation (electronic)
- Final methods and assumptions memorandum for environmental documentation (one electronic and five hard copies)
- Preparation for and attendance by up to two CONSULTANT staff at up to four, 2-hour agency meetings

#### **Task 6.3 – Corridor-Level Environmental Site Assessment (ESA)**

The CONSULTANT will conduct an ESA reconnaissance to evaluate the presence, or likely presence, of potential hazardous substances within the physical limits of the project that would have an effect on the project. Sites with potential for environmental issues/impacts include those that indicate current or past uses as service stations, battery shops, dry cleaners, chemical storage, or manufacturing facilities; sites with fuel or chemical storage tanks or drums present; or those with strong pungent or noxious odors. The CONSULTANT will prepare a report to describe the work completed and make recommendations for follow-on site-specific Phase 1 ESA assessments that will be in accordance with ASTM 1527-00 as a Phase 1 and WSDOT Environmental Procedures Manual M 31-11.10 (EPM), Chapter 447. The report will include necessary information to complete the NEPA documentation. The scope of services for this study will include

- A review of the results of a federal, state, and local environmental database search provided by an outside environmental data service for listings of known or suspected environmental problems at the sites or nearby properties within the search distances specified by ASTM. For this work, the CONSULTANT will assume one corridor level database search with a standard search radius.
- A review of historical aerial photographs, fire insurance maps, city directories, chain-of-title reports, and tax assessor records, as available and appropriate, to identify past development

history on the parcels relative to the possible use, generation, storage, release, or disposal of hazardous substances. The CONSULTANT will attempt to identify uses of the sites from the present to the time that records show no apparent development of the site, or to 1940, whichever is earlier.

- Conduct of a visual reconnaissance of the parcels and adjacent properties to identify visible evidence of potential sources of contamination. The CONSULTANT will assume the need to perform visits to up to ten properties.
- A letter report that will summarize the results of this study. The letter report will briefly discuss the project activities and include a table ranking the parcels (low, moderate, high) by their potential for contamination from either on-site or off-site sources. A draft letter report will be provided for review and comment. Upon receiving comments, the letter will be modified as appropriate and made final.

#### **Assumptions**

- Chain-of-title reports will be reviewed for only those properties that have environmental concerns based on the results of our corridor level assessment and/or whether they need a full Phase I ESA. The chain-of-title report(s) fee will be invoiced to the CITY as a project expense.
- Not included at this time is an environmental compliance audit or an evaluation for the presence of lead-based paint, polychlorinated biphenyls in light ballasts, radon, mold, lead in drinking water, asbestos-containing building materials, or urea-formaldehyde in on-site structures. Soil, surface water, or groundwater sampling and chemical analysis are not included as part of the CONSULTANT services. Interviews with property owners and local and state agency staff are also not included as part of the CONSULTANT services.
- The CONSULTANT will arrange site access with property owners to allow the CONSULTANT to complete a visual reconnaissance site visit. If site access will not be allowed, the CONSULTANT will complete the site reconnaissance from the closest public ROW.
- This scope of services does not constitute a Phase 1 ESA in accordance with ASTM 1527-00, or a Phase 1 ESA or Hazardous Materials Discipline Report in accordance with WSDOT EPM, Section 447. If required, additional Phase 1 ESA studies and recommendations will be performed under a supplemental agreement.
- One round of minor revisions to draft Corridor Level ESA letter report

#### **Deliverables**

- Draft Corridor Level ESA letter report (one electronic copy)
- Final Corridor Level ESA letter report (one electronic copy)

#### **Task 6.4 – Cultural and Historic Resources Study**

The purpose of a cultural and historical resources report is to provide the necessary documentation to comply with Section 106 of the National Historic Preservation Act (NHPA). The first phase of study will be a survey to identify archaeological resources and historic resources (buildings and structures).

The cultural resource study for the project will be completed in phases. The preliminary phase will be completed at a survey-level of effort. The preliminary phase includes a background review, field inventory, and preparation of a report documenting the inventory and providing preliminary evaluation of resources. The main tasks will be:

- Preparing the draft Area of Potential Effect (APE) description for the City to submit to WSDOT,
- Conducting an archaeological survey, including both pedestrian and shovel tests, if needed, and
- Completing an inventory of the historic-period buildings and structures that are either within the APE or are on parcels that are crossed by the APE (lands that may be purchased for the project).

The CONSULTANT shall conduct a historic resource inventory and archaeological survey. Prior to the archaeological survey, the CONSULTANT shall prepare the Area of Potential Effects (APE) submittal for the CITY to provide to WSDOT under CITY letterhead. The historic resource inventory will include buildings and structures constructed 45 years ago or more that are situated on parcels that are included in the APE.

The CONSULTANT shall prepare a technical report of the study in accordance with applicable Washington State Department of Archaeology and Historic Preservation and U.S. Secretary of Interior standards. The field work, survey and inventory report will cover the APE defined by the CITY and approved by WSDOT. The report will include resource forms.

The inventory and report will be used in partial fulfillment of Section 106, SEPA, and other regulatory requirements. This information will be summarized in a draft cultural resources report. The CONSULTANT shall provide the draft document to the CITY for review, revise the report based on the CITY's comments and submit the revised report for WSDOT review. The report will be finalized based on WSDOT reviews. The CITY may make adjustments to finalize the proposed APE as additional project details are defined. A cultural resource study addendum report will be completed if areas are added to the APE subsequent to completion of the survey report. A revised APE submittal will be needed in the event of such APE revisions.

#### **Assumptions**

- Draft cultural resources report will be submitted for review by the CITY. The CITY's revisions will be incorporated into the draft document that is provided to WSDOT for review.

- CITY revisions and WSDOT comments on the draft and final report are minor edits and do not require additional technical analysis.
- No significant historic resources are within the project APE. A testing and evaluation phase of study would be needed for resources found within the APE that require additional analysis or data to determine their eligibility. The effort for site testing and evaluation is not included in this scope.

**Deliverables**

- Draft APE submittal (one electronic copy in WORD)
- Draft cultural resources report (one electronic copy by email)
- Final cultural resources report (two electronic PDF copies on CDs, five hard copies)

**Task 6.5 – Wetlands and Critical Areas Memorandum**

The CONSULTANT shall prepare a memorandum documenting the presence or absence of critical areas and habitat in the project area, including wetlands, fish and wildlife habitat, aquifer recharge, geologic hazards, and frequently flooded areas. The CONSULTANT shall review available information, including maps and species information from the CITY, Cowlitz County, Washington State Department of Fish and Wildlife (WDFW), and other agencies to determine if critical areas or habitat have been documented within the project area. The CONSULTANT shall conduct a field visit to document conditions of and record images of the project area and document the absence of wetlands, streams, or habitat features within the project area. The CONSULTANT shall prepare a technical memorandum documenting the findings of the map and species review and field visit.

**Assumptions**

- There are no wetlands or critical areas that will be impacted by the project and a wetland delineation will not be required. If it is determined that wetland impacts will occur with the project, the need for a wetland delineation will be noted, and a separate scope prepared.
- Revisions to the wetlands/critical areas memorandum from the CITY or WSDOT are minor edits and do not require additional technical analysis.

**Deliverable**

- Draft wetlands and critical areas memorandum (one electronic)
- Final wetlands and critical areas memorandum (one electronic and five hard copies)

**Task 6.6 – Air Quality Analysis**

The purpose of the air quality report is to identify any potentially significant impacts and necessary mitigation measures. The air quality assessment will meet the requirements of current NEPA/SEPA requirements.

Initial Traffic Data Ranking Qualitative Review: After review of the proposed project alternatives and the results of the traffic analysis, the CONSULTANT will initially conduct a

qualitative assessment of the air quality implications of the project based on a review of the signalized intersection level of service (LOS) analysis and a determination as to whether the project would result in deterioration of LOS to "D" or worse at one or more locations.

In the event that there are no intersections with a future LOS this poor, the air quality assessment will be completed based on a summary of this qualitative review.

- Note that this analysis will need to be based on traffic impact assessment data for the project and will consider existing conditions and future conditions in the project design year (2040).

Potential Quantitative Assessment: In the event the traffic data reviewed indicates LOS would be or would deteriorate to "D" or worse, up to three (3) signalized intersections will be selected for additional review based on a rank-ordered listing using total peak hour delay at all intersections considered in the traffic analysis.

If it is available by the time this analysis is conducted, the CONSULTANT shall use the latest approved FHWA screening tool for this assessment. <sup>(1)</sup> This review will consider whatever air pollutants are included in the new screening tool (e.g., carbon monoxide "CO," and possibly fine particulate matter "PM2.5").

In the likely event the new FHWA tool is not available in time for this analysis, the CONSULTANT shall conduct dispersion modeling to assess potential air quality impacts. This process would include the following steps.

- Estimate current and future vehicle emission rates using the MOVES model
- Perform project-level dispersion modeling using CAL3QHC. This review would consider CO and possibly PM2.5.
- If this level of analysis is necessary, it will consider existing conditions and future conditions in the project design year (2040).
- The assumed level of effort is based on estimating the physical metrics of intersections considered in modeling using aerial photos and/or CAD drawings of their configurations

The air quality implications of construction of the project will be based on a qualitative review and discussion of best management practices.

Mitigation Analysis: In the event the impact analysis modeling indicates the project would cause significant air quality impacts, it will be necessary to quantitatively consider mitigation measures for each of the intersections where impacts are expected. For purposes of estimating a budget, the CONSULTANT shall assume modeling mitigation measures are necessary at all

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<sup>(1)</sup> FHWA is currently working on a replacement for the previously available WASIST screening tool, which is no longer valid due to change in the underlying vehicle emission factor models (i.e., the MOBILE series model has been replaced by MOVES). There is currently no estimate for when this new screening tool will be available; **it seems likely this screening tool will not be available for use with this project.**

three affected intersections for the worst-case of the build alternatives, and shall allow one day for the iterative process of CAL3QHC and Synchro modeling. In addition to the above modeling, a qualitative analysis for ozone and PM2.5 will also be developed.

Air Quality Technical Report: The CONSULTANT will prepare a draft technical air quality report to document the methods and the results of the impact and mitigation analyses. The CITY will review the draft report and prepare consolidated comments. The CONSULTANT shall incorporate the CITY's comments into a final technical report.

#### **Assumptions**

- CITY revisions and WSDOT comments on the draft and final report are minor edits and do not require additional technical analysis.
- Any consideration of PM2.5 will not require any additional quantitative analysis.

#### **Deliverables**

- Draft Air Quality Analysis report (electronic copy)
- Final Air Quality Analysis report (electronic copy and five hard copies)

#### **Task 6.7 – Noise Analysis**

The purpose of the traffic noise report is to evaluate traffic noise levels at potentially sensitive receptors near the project and to identify potential mitigation measures. The traffic noise report will be developed in accordance with WSDOT's Environmental Procedures Manual.

Sound Level Measurements: After review of the proposed project alternatives, the CONSULTANT shall visit the project area to identify potentially sensitive noise receivers and to take measurements of existing sound levels. The CONSULTANT shall measure existing noise levels during the peak hours, and use these measurements in configuring the noise model. Measurements will be undertaken in accordance with WSDOT and FHWA guidelines and will be made with a Type 1 sound level meter. Sources of existing noise, topographical features, traffic speeds, vehicle numbers, and mix will be noted during these measurements. These data will then be used to develop a noise model of the existing conditions by configuring the model so existing traffic conditions provide reasonable representations of the measured noise levels at the sample locations.

Construction Noise Impact Evaluation: The noise analysis will consider and report any relevant local noise rules and evaluate potential short-term impacts of noise from construction activities. Construction noise levels received at nearby sensitive receptors will be evaluated based on estimates published by the U.S. Environmental Protection Agency (EPA) of maximum noise levels of typical construction equipment in conjunction with simple distance attenuation. Computer modeling of construction noise levels will not be performed.

Traffic Noise Impact Evaluation: The CONSULTANT shall evaluate the potential for traffic noise impacts using the FHWA Traffic Noise Model (TNM) to estimate future traffic noise levels

for the build alternative based on expected future traffic volumes and the location of the alignment relative to sensitive receivers. The noise modeling will predict AM or PM peak-hour equivalent sound levels (Leq) from traffic at receptor locations that could be affected by the proposed project and will consider existing conditions and design year conditions. Modeling to calculate noise contour lines is not included.

Mitigation Analysis: The CONSULTANT shall identify possible mitigation measures to reduce noise levels during construction. If predicted long-term traffic noise levels from operation of the project would cause noise impacts, mitigation measures will be developed in cooperation with the lead agency and design engineers. The mitigation analysis, if required, will include evaluation of the effectiveness and general size and location of natural and man-made noise barriers using the TNM model. Additional possible means to mitigate traffic noise will be evaluated where appropriate (e.g., traffic management, modifications to the roadway's vertical or horizontal alignment, etc.)

Noise Level Technical Study Report: The CONSULTANT shall prepare a draft technical noise report to document the methods and the results of the impact and mitigation analyses. The CITY will review the draft report and prepare consolidated comments. The CONSULTANT will incorporate the CITY's comments into a final technical report.

The CONSULTANT shall assemble this material into a draft traffic noise report and will provide an electronic of the draft document to the CITY for review. The CONSULTANT shall finalize the report based on one round of CITY reviews and submit five copies of the final traffic noise analysis report.

**Assumption**

- City revisions and any WSDOT comments on the draft and final reports are minor edits and do not require additional technical analysis.

**Deliverables**

- Draft Traffic Noise report (electronic copy)
- Final Traffic Noise report (electronic copy and five hard copies)

**Task 6.8 – Endangered Species Act Compliance Assessment**

The CONSULTANT shall coordinate with the CITY to address potential project impacts to sensitive species, particularly with respect to applicable requirements of the Endangered Species Act (ESA).

Federal review will be needed and, therefore, this PROJECT will require ESA Section 7 consideration by FHWA potentially including concurrence from the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (USFWS). The CONSULTANT shall confirm which species and critical habitat NMFS and USFWS have federally listed that could occur within the project area. The CONSULTANT shall also provide the priority species and habitat information from (1) the Washington State Department of Fish and Wildlife (WDFW), Priority Habitats and Species Program, (2) the Washington State Department of Natural

Resources (WDNR), Washington Natural Heritage Program, and (3) the CITY and/or County GIS. The CONSULTANT will review this information, as well as other appropriate sources of information from existing literature and data resources, in conjunction with any necessary field reconnaissance.

In conjunction with other sensitive areas site reconnaissance activities, the CONSULTANT will verify the presence and availability of potential habitat for species of concern in the project action area.

The CONSULTANT shall prepare required documentation for ESA compliance. Based on the anticipated increase in impervious surfaces and stormwater runoff and relative proximity to critical habitat, a biological assessment (BA) will be required. The BA shall be prepared consistent with WSDOT Local Agency Guidelines (LAG) Manual. The area of indirect effects studied with the project will be determined and examined in accordance with the guidance in WSDOT's biological assessment preparation training manual (dated February 2012). The CONSULTANT shall assemble this material into a draft BA, provide four copies of the draft document to the CITY for review, finalize the report based on one round of CITY reviews, and submit four copies of the final BA report.

#### **Assumptions**

- A pre-biological assessment meeting will be held with USFWS and NMFS to determine if informal or formal consultation will be required and to confirm the geographic extent of the area to be reviewed for potential induced growth effects.
- A BA is required including an analysis of stormwater pollutant loading using the Hi- Run Model. The analysis of pollutant loading will not result in the need to complete the dilution subroutine.
- Formal species surveys are not necessary and not included in this scope of work.
- Effects to listed species and critical habitat are assumed to result in a May Affect, Not Likely to Adversely Affect determination supported by a biological assessment provided for informal-consultation. The BA will be prepared consistent with WSDOT LAG Manual.
- CITY revisions and WSDOT comments on the draft and final BA are minor edits and do not require additional technical analysis.

#### **Deliverables**

- Draft Biological Assessment (one electronic copy)
- Final Biological Assessment (one electronic copy and five hard copies)

#### **Task 6.9 – Social, Economic, and Land Use Impacts Study**

The CONSULTANT shall describe the existing social environment of the project area and the surrounding community, including neighborhood structure, recreational facilities, public

services, and growth and development potential. Appropriate local jurisdictions and other service providers shall provide information on recreational facilities and public services.

The CONSULTANT shall use the most recent U.S. Census data, or later population estimates produced by local jurisdictions, if available, and as approved by WSDOT. When using such data, a graphic showing the referenced census tracts shall be provided in the report.

**Community Cohesion:** The CONSULTANT shall discuss potential changes in neighborhood cohesion and community character as a result of possible splitting of neighborhoods, isolating a portion of a neighborhood, and the appearance of incompatible development with the neighborhood. Mitigation measures to minimize both the short- and long-term effects of the proposal on existing and proposed uses on adjacent properties shall be evaluated.

**Recreation:** The CONSULTANT shall list recreational facilities within the project study area. Potential impacts to recreational facilities during and after construction, including access to, the usability of, and the integrity of existing and proposed facilities shall be discussed. Resources that qualify as a 6(f) facility shall be identified. Discuss if there are feasible and prudent alternatives to the impacts of the alternative. Coordination with the local jurisdictions shall be documented in the DCE.

**Regional and Community Growth:** Regional population and growth patterns shall be described using Cowlitz-Wahkiakum Council of Government, Clark County and Washington Office of Financial management population and employment projections for 2010, 2020, and 2030. Population changes anticipated or accommodated as a result of the proposed transportation project shall be analyzed qualitatively.

**Services and Utilities:** The CONSULTANT shall describe how each public service (schools, police and fire protection, ambulance) will be affected by the construction and operation of the project improvements, including service disruptions, circuitry of access, and changes in service travel times during construction. Discuss changes in service areas, service travel times, and new or additional services that may be needed as a result of any secondary or cumulative growth after project construction. Include any services provided to the public that may be impacted (such as police and fire protection, ambulance companies, public or private bus service, cemeteries, government offices, doctor and veterinarian offices, schools, religious institutions, and community organizations).

The discussion of impacts to existing and proposed utilities shall include major distribution and transmission facilities for natural gas, electrical power, telephone, cable television, water supplies, sanitary sewer, storm sewer, solid waste routes, petroleum transmission facilities, public diking districts, and others that may be identified during this project. Contacts and resulting coordination with each utility shall be documented.

**Pedestrian and Bicyclist Facilities:** The relative amount of use of the existing facility by pedestrians and bicyclists shall be generally described (no pedestrian or bike counts shall be made). The CONSULTANT shall indicate if the Scott Avenue is part of a designated or planned

bicycle route or trail or if any designated or planned bicycle route or trail crosses the project area. Measures to mitigate the impacts, including identification of possible replacement land for acquired property; landscaping, aesthetic treatments, and other techniques shall be discussed. Care shall be taken to differentiate between trails designated as recreation facilities versus transportation facilities.

**Relocation:** This section shall comply with the Uniform Relocation Assistance and Real Property Policies Act of 1970, as amended (42USC4601 et seq) and implemented by FHWA under 49CFR24, and contain a discussion on "Availability of Suitable Replacement Housing and Business Space." The acquisition of property, including land, structures, and landscaping, shall be identified based upon ROW plans and title reports. Any displacement of residences and businesses, loss of parking, or change in access shall be identified and evaluated. Mitigation measures specific to properties shall be analyzed, including the provision of relocation assistance.

**Economics:** The CONSULTANT shall use current applicable information and data to describe the existing economic conditions in the project area (number and type of business, employment, property values, and tax base).

The CONSULTANT shall obtain information and summarize trends in population, employment, development, and level of economic activity within the study area. References shall be presented as appropriate. Major employers in the vicinity of the PROJECT shall be identified. Information about Cowlitz County and CITY tax revenues shall be obtained and summarized.

Impacts of the project shall be described, including construction-period economic impacts; temporary and long-term changes in traffic and associated shopping patterns; loss of businesses and jobs as a result of ROW acquisition; construction and long-term employment; and business growth.

Loss of property tax revenues associated with ROW acquisition and displacements shall be estimated using information from the Cowlitz County Assessor. The potential for lost sales tax revenue from displacements shall be discussed qualitatively. The potential for businesses to be affected by the project during project construction or operation shall be analyzed and documented. The potential for employment increases resulting from project construction shall be discussed qualitatively. Potential mitigation measures shall be identified.

Measures to mitigate economic activity or employment impacts shall be identified (mitigation measures are not typically identified for property value or tax revenue impacts).

**Assumption**

- Revisions and WSDOT comments on the draft and final studies are minor edits and do not require additional technical analysis.

**Deliverables**

- Draft social and economic impact study (one electronic copy)
- Final social and economic impact study (one electronic copy and five hard copies)

**Task 6.10 – Environmental Justice**

The purpose of this study is to document compliance with the Environmental Justice Executive Order. An analysis of the Title VI Population Groups within the project area will be provided. Popular breakdown will conform to U.S. Department of Transportation (USDOT) definitions for “minority” and “low-income.” Methods for identification include examination of current census information and discussion with local agencies (for example, planners, social service providers, and school district officials), but will not include door-to-door visits in the project area. This review will determine if any special populations reside within the project limits. Based on this research, the absence or presence of special population groups will be documented. If such groups are present in the project area, potential impacts, including the possibility for disproportionate adverse impacts on these populations would be evaluated consistent with Title VI of the Civil Rights Act of 1964. Mitigation measures for such impacts would be identified.

The CONSULTANT shall complete the Environmental Justice Matrix and will assemble the above material into an environmental justice assessment and provide five copies of the draft document to the CITY for review. The CONSULTANT shall finalize the report based on one round of CITY reviews and submit five copies of the final environmental justice assessment report

**Assumptions**

- Demographics data needed to develop the environmental justice assessment will be data developed under Task 2.1 – Public Process Outline.
- A formal discipline report is not anticipated and the environmental justice assessment will be sufficient for NEPA compliance.
- City revisions and WSDOT comments on the draft and final assessment are minor edits and do not require additional technical analysis.

**Deliverables**

- Draft Environmental Justice Matrix and Assessment (electronic copy)
- Final Environmental Justice Matrix and Assessment (electronic copy and five hard copies)

**Task 6.11 Visual Quality Technical Memorandum**

The purpose of this memorandum is to document the visual effects of the project. The CONSULTANT shall complete a visual impacts analysis addressing the potential visual impacts of the project. The analysis will be completed per the requirements of Chapter 459 of the EPM. This analysis will evaluate potential visual impacts, including aesthetics, light, glare, and night sky impacts. The analysis will document the baseline visual conditions and evaluate the

potential effects of the proposed project on potential viewers of the project. The project team will use existing maps, aerial photos, GIS data, and photos of the project area taken from SRweb for the analysis.

#### **Assumptions**

- The technical memorandum will include approximately 8 to 10 pages of written analysis.
- Approximately three viewpoints will be used for the analysis that will represent the visual environment of the project area. A map will be included showing the viewpoints, view directions and visible areas of these three viewpoints.
- A single computer or photo simulations will be developed for each viewpoint to show how the constructed project will look.

#### **Deliverables**

- Draft Visual Quality Technical Memorandum (electronic copy)
- Final Visual Quality Technical Memorandum (electronic copy and five hard copies)

#### **Task 6.12 Water Quality/Stormwater Technical Memorandum**

The project team will complete a technical memorandum addressing potential project effects on water quality and stormwater resources. The memorandum will describe the hydrologic characteristics of the project study area, receiving waterbodies, water quality, and stormwater treatment.

#### **Assumptions**

- The memorandum will use the WSDOT Surface Water Discipline Report Template and follow WSDOT Surface Water Discipline Report Technical Guidance.
- The team will complete a pollutant loading analysis using the WSDOT Method 1 (WSDOT-FHWA Method).
- Proposed stormwater treatment, conservation, and mitigation will comply with all applicable federal, state and local regulations. Proposed stormwater treatment will comply with the Highway Runoff Manual.
- A dilution analysis is required for preparation of the biological assessment.
- The technical memorandum will be approximately 25 to 40 pages in length.

#### **Task 6.13 – NEPA Documentation and Approval**

The CONSULTANT shall complete appropriate NEPA documentation based on the studies and analysis provided above. The CONSULTANT shall complete NEPA environmental documentation in accordance with Chapter 24 of the LAG Manual and other appropriate WSDOT and/or FHWA guidance documents. The Local Agency Environmental Classification Summary form (ECS) is the assumed NEPA document for a Documented Categorical Exclusion

(DCE). The CONSULTANT shall coordinate with WSDOT to address comments on the ECS. The CITY presently anticipates a NEPA DCE.

**Assumptions**

- NEPA documentation is assumed to be a DCE, and the preparation of an environmental assessment (EA) or environmental impact statement (EIS) is not included in this scope of work.
- No mapped floodplain or floodway areas occur in the project area.
- Document preparation will begin upon the selection of a preferred alternative.
- The project will be processed by WSDOT and FHWA as a DCE.
- The geotechnical report prepared by others will provide sufficient information to address project effects on soils and geology.
- CITY revisions and WSDOT comments on the ECS are minor edits and do not require additional technical analysis.

**Deliverables**

- Draft ECS Form
- Final ECS Form

**Task 6.14 – SEPA Documentation and Approval**

The CONSULTANT shall complete appropriate SEPA documentation, including all needed studies, modeling, and analysis, and a SEPA checklist in accordance with State Environmental Policy Act (RCW 43.21C) and SEPA Rules (WAC 197-11). The CONSULTANT shall coordinate with the CITY’s Planning Department to address comments on the SEPA Checklist and provide support for the SEPA process. The CITY presently anticipates a SEPA Mitigated Determination of Non-Significance.

**Assumptions**

- Efforts under previous tasks are sufficient to complete the SEPA checklist and no additional studies will be conducted by the CONSULTANT.
- CITY revisions and comments on the SEPA checklist are minor edits and do not require additional technical analysis.
- The SEPA threshold determination is anticipated to be a Mitigated Determination of Non-Significance (MDNS).
- This project will have minimum relocations of small businesses or residential housing.
- A SEPA EIS is not included in this scope of work.

- The CITY is responsible for the SEPA determination documentation.

#### **Deliverables**

- Draft SEPA Checklist
- Final SEPA Checklist

### **WORK ELEMENT 7: TRAFFIC ANALYSIS**

#### **Task 7.1 – Background Document and Data Collection**

The purpose of this task is to provide coordination with previous and ongoing transportation planning efforts, provide a regulatory framework to guide decision-making, obtain data to support the transportation analysis and conceptual design tasks, and establish an approved set of analysis methodologies and assumptions. The study area is to include up to 20 intersections located along Scott Avenue, at nearby interchanges (including I-5 at Lewis River Road and I-5 at Dike Access Road) and at other key intersections throughout the City.

#### Background Documents.

The City shall provide CONSULTANT with the following existing reports:

- Woodland Transportation Infrastructure Strategic Plan
- Woodland High School Traffic Impact Study
- Traffic Impact Studies for proposed developments in the area
- Comprehensive Plan Data: CONSULTANT will review the most recent City comprehensive plans for compatibility with the proposed improvements.

#### Background Data

**Accident Data:** Available updated accident data from WSDOT and local agencies will be collected by the CONSULTANT.

**Signal Timing Data:** The CONSULTANT shall collect existing signal timing data from WSDOT.

**Saturation Flow Rates and Queue Length:** The CONSULTANT shall collect existing saturation flow rates and observed maximum queue (number of vehicles) at the study intersections.

**Traffic Volume Data:** CONSULTANT will collect a.m. and p.m. peak period (2-hour) vehicle turn movement count data at up to 6 study area intersections. Count data shall also include counts of pedestrian and bicycle movements. Traffic count data at the remaining 14 study area intersections count data will be obtained from existing traffic reports. All traffic volume counts collected will include 10-minute increments of data. CONSULTANT will collect two (2) 3-day, 24-hour machine counts (volume/speed/vehicle classification) on Scott Avenue (1 location west of I-5 and 1 location east of I-5). CONSULTANT shall obtain I-5 traffic volume data from WSDOT.

### Field Reviews

The CONSULTANT shall conduct a field review of the existing transportation conditions within the study area. The CONSULTANT shall examine existing speed limits, freeway facilities and amenities, traffic control and lane configurations. The CONSULTANT shall observe and document saturation flow rates and observed maximum queue (number of vehicles) during the peak hours of operation at key locations. The CONSULTANT team will use the aerial photo to augment field reviews.

### Methods and Assumptions Document

Before proceeding with the alternatives development and analysis task, a Methods and Assumptions Document will be completed by CONSULTANT, for agreement by WSDOT and FHWA to promote a successful outcome by gaining early consensus on the project approach, data used, analysis methodologies and tools, and evaluation criteria. CONSULTANT will obtain input from CWCOG, RTC, City and WSDOT staff to discuss the traffic volume forecasting approach for both the alternatives analysis and IJR analysis.

The Methods and Assumptions Document will follow the WSDOT template and will include:

- Record of stakeholder acceptance
- Project description and background
- Identification of analysis time periods (CONSULTANT shall provide draft text)
- Description of the study area
- Traffic analysis tools and methodologies used (CONSULTANT shall provide draft text)
- Baseline and future land use projections (CONSULTANT shall provide draft text)
- Travel forecasting models and procedures (CONSULTANT shall provide draft text)
- Safety analysis and assessment methodology (CONSULTANT shall provide draft text)
- Measures of effectiveness used (CONSULTANT shall provide draft text)
- Description of deviations and related justifications
- Conclusion
- Appendices

The CONSULTANT shall attend up to one meeting with agency staff during this task.

The CONSULTANT shall produce a draft and draft Methods and Assumptions Document for adoption by the City, WSDOT, and FHWA. Upon receiving comments, the CONSULTANT shall revise the draft documents and submit an updated final version.

#### **Deliverables**

- Draft Methods and Assumptions Document (electronic copy)
- Final Methods and Assumptions Document (electronic copy)
- Traffic Count Data
- Attendance at up to one project team meeting

#### **Task 7.2 – Existing Transportation Conditions Analysis**

The CONSULTANT shall analyze the existing transportation conditions in the study area, including validation to match results to actual data collected from the field. The transportation analysis for existing conditions shall include:

:

- A study area transportation system inventory showing lane geometrics, posted and design speeds, grades, and traffic controls.
- Access inventory showing locations of access points and uses being served on Scott Avenue within half a mile east or west of I-5 ramp terminals.
- Assessment of surrounding land uses.
- Assessment of bicycle, pedestrian and transit conditions within the study area.
- Evaluation of peak hour (a.m. and p.m.) traffic volumes at the study intersections.
- Evaluation of peak hour (a.m. and p.m.) intersection operations using Synchro 8 software to calculate levels of service, delay, and volume to capacity ratios.
- Evaluation of peak period (a.m. and p.m.) I-5 merge, diverge, and basic freeway segments at and adjacent to the Scott Avenue interchange using Highway Capacity Software.
- A collision and safety analysis using available crash data (anticipated to be the most recent three-year period available). This analysis will consider the freeway mainline and ramps, as well as the surface street network within the study area and will include:
  - Identification of crashes by location, type, and severity.
  - Calculation of crash rates (per million vehicles) for freeway, ramps, and roadway segments and intersections and comparison to average rates for similar facilities in Washington where available.
  - Identification of Collision Analysis Locations (CALs) and Collision Analysis Corridors (CACs) from the most recent WSDOT data.

- Evaluation of crash trends.
- Investigation to identify potential crash contributing factors such as geometric deficiencies or inadequate traffic control.
- Crash summary in tabular and graphical format.

The CONSULTANT shall attend up to one meeting with agency staff during this task.

The CONSULTANT shall produce a draft Transportation Existing Conditions memorandum for the City and TAC to review. Upon receiving comments, the CONSULTANT shall revise the draft memorandum and submit an updated final version.

**Deliverables**

- Draft Existing Transportation Conditions Memorandum (electronic copy)
- Final Existing Transportation Conditions Memorandum (electronic copy)
- Attendance at up to one project team meeting

**Task 7.3 – Future Traffic Volume Forecasting For Alternatives Analysis**

Future traffic volume forecasts will be developed for the study area based on existing traffic volumes, historic traffic data, traffic forecasts available in background documents, and WSDOT I-5 traffic volume data. CONSULTANT will develop p.m. peak hour traffic volumes for the opening year (2020) and horizon year (2040) at the 20 study area intersections for up to four interchange configurations plus the No-Build configuration (total of five options including No Build). CONSULTANT will develop a.m. peak hour traffic volumes for the opening year (2020) and horizon year (2040) at up to eight study area intersections for up to four interchange configurations plus the No-Build configuration.

The CONSULTANT will use the existing Woodland travel demand model, provided by CWCOG, to perform a high level assessment of potential travel pattern changes from the No Build alternative to the project alternatives. The CONSULTANT shall prepare a.m. and p.m. peak hour traffic forecasts for year of opening (2020) and horizon year (2040) at the study area intersections under each future alternative in a graphical format.

The CONSULTANT shall attend up to one meeting with agency staff during this task.

The CONSULTANT shall produce a draft Future Traffic Volume Forecasting memorandum for the City and TAC to review. Upon receiving comments, the CONSULTANT shall revise the draft memorandum and submit an updated final version.

**Deliverables**

- Draft Future Traffic Volume Forecast Memorandum (electronic copy)
- Final Future Traffic Volume Forecast Memorandum (electronic copy)
- Attendance at up to one project team meeting

#### **Task 7.4 – Future Alternatives Analysis Traffic Conditions**

The CONSULTANT will support development of future alternatives. The CONSULTANT shall conduct a future traffic operations analysis at the 20 study intersections for the p.m. peak hour under the no build condition and up to four interchange configurations (total of five options including No Build). A.M. peak hour future traffic operations analysis at up to eight study intersections for the no build condition and up to four interchange configurations will be conducted. The existing conditions a.m. and p.m. peak hour Synchro models will be updated to evaluate operations on the local street system for each of the future scenarios. SIDRA will be used to analyze roundabout alternatives. The alternatives analysis will be conducted using 2020 and 2040 a.m. and p.m. peak volumes. The 2020 analysis will be used to document year of opening conditions for the selected preferred alternative.

The traffic operations analysis performed for screening alternatives will be conducted using the project Synchro models. Additional qualitative comparisons of the operational and safety benefits and impacts of screening alternatives will be considered and summarized in a traffic analysis technical memorandum. A summary of the a.m. and p.m. peak hour scenarios that will receive detailed traffic operations analysis using the Synchro models is provided below.

- 2020 Opening Year No Build Conditions
- 2020 Opening Year Alternative 1 Configuration
- 2020 Opening Year Alternative 2 Configuration
- 2020 Opening Year Alternative 3 Configuration
- 2020 Opening Year Alternative 4 Configuration
- 2040 Horizon Year No Build Conditions
- 2040 Horizon Year Alternative 1 Configuration
- 2040 Horizon Year Alternative 2 Configuration
- 2040 Horizon Year Alternative 3 Configuration
- 2040 Horizon Year Alternative 4 Configuration

For Scott Avenue safety analysis, Standard Federal Highway Administration crash reduction/counter measure factors will be used to develop future crash estimates for 2040 recommended configuration. The safety analysis will include the following.

- Establish safety area of influence
- Collect traffic, geometric, and crash data
- Analyze crash data
- Identify safety considerations in design alternatives
- Document the current and anticipated safety performance

The CONSULTANT shall attend up to three meetings with agency staff during this task.

The CONSULTANT shall produce a draft Future Alternatives Traffic Analysis memorandum for the City and TAC to review. Upon receiving comments, the CONSULTANT shall revise the draft memorandum and submit an updated final version.

**Deliverables**

- Draft Future Alternatives Traffic Analysis Memorandum (electronic copy)
- Final Future Alternatives Traffic Analysis Memorandum (electronic copy)
- Attendance at up to three project team meetings

**Task 7.5 – Refinement of Future Travel Demand Forecasting to Support IJR**

The CONSULTANT shall prepare travel demand forecasting to a level of detail appropriate to assist in the selection of the recommended configuration and the IJR. The CONSULTANT will use the existing Woodland travel demand model and provide updates as needed to obtain baseline-forecasting information for a.m. and p.m. peak hours under the year of opening (2020) and horizon year (2040) as required by FHWA. Up to 20 intersections will be analyzed for the p.m. peak hour and eight intersections will be analyzed for the a.m. peak hour.

The CONSULTANT shall further refine the travel demand forecast by considering updated growth forecasts for the City of Woodland, CWCOG and RTC. Work under this task shall include the following elements.

- WSDOT ramp and roadway or CDR data will be used for volume data on I-5.
- Coordinate future land use changes and plans for the City of Woodland, CWCOG and RTC for 2020 and 2040.
- Revise the travel demand model to reflect future baseline assumptions including network and land use.
- Traffic model verification and calibration documentation
- Run traffic assignments in the revised model to obtain future PM peak traffic volume estimates at the study intersections and study freeway segments for No Build and one Build Alternative.
- Develop a.m. and p.m. peak volumes for the year of opening conditions (2020) and horizon year conditions (2040) for No Build and one Build Alternative at the study intersections. Up to 20 intersections for the p.m. peak hour and eight intersections for the a.m. peak hour.

The CONSULTANT shall prepare a.m. and p.m. peak hour traffic forecasts for year of opening (2020) and horizon year (2040) at the study area intersections under No Build and one Build Alternative in a graphical format. The CONSULTANT shall prepare ADT forecasts at affected freeway, ramp, and local roadways for each future alternative.

The CONSULTANT shall attend up to one meeting with agency staff during this task.

The CONSULTANT shall produce a draft IJR Future Traffic Volume Forecasting memorandum for the City and TAC to review. Upon receiving comments, the CONSULTANT shall revise the draft memorandum and submit an updated final version.

**Deliverables**

- Draft IJR Future Traffic Volume Forecast Memorandum (electronic copy)
- Final IJR Future Traffic Volume Forecast Memorandum (electronic copy)
- Attendance at up to one project team meeting

**Task 7.6 – Refined Future Traffic Conditions Analysis to Support IJR**

Further traffic analysis will be conducted to support Policy Point #3 – Operational and Accident Analysis for the IJR based on the forecasts developed in Task 7.5. This section will provide a detailed operational analysis of the proposed project. The analysis will include the following conditions:

- Existing Conditions (2013)
- No Build (2020, 2040)
- Build (2020, 2040)

The Baseline condition will include only funded local improvements expected to be built for the analysis year. The No Build condition will include funded, state transportation plan, and comprehensive plan improvements expected to be built for the analysis year. The Build analysis will also include the proposed project.

Operational Analysis:

The Consultant proposes to utilize the following tools for the operational analysis, and will consult with the PDT to determine the most effective tools to utilize:

- VISSIM: Freeway mainline, ramp merge & diverge, ramp intersections (up to 17 intersections and mainline freeway included in model)
- HCM: Freeway mainline, ramp merge & diverge (to allow for an independent FHWA analysis)
- SIDRA: Roundabout controlled street intersections and ramp terminals
- Synchro: Signalized and unsignalized street intersections and ramp terminals.

VISSIM and HCM will be used to evaluate the impacts of the proposed project on the freeway mainline. The other tools (SIDRA and Synchro) will be used to evaluate the ramp terminals and local street system. The analysis will include:

- Description of the methodology and tools used for the analysis

- Documentation of the calibration process and resultsSummary of the intersection LOS, queuing and delay by approach
- Summary of conclusions and findings

#### VISSIM Analysis:

Consultant will develop a micro-simulation model of a portion of the project study area including I-5 mainline from north of the Dike Access Road interchange (including ramps) and south of the Lewis River Road interchange (including ramps) and study intersections.

Up to 15 intersections and the mainline freeway will be included in the VISSIM model. The objective of the VISSIM model is to test the effects of the build alternatives on freeway operations, provide an operational assessment of the study area and to provide a visual simulation of motor vehicle operations related to the I-5 interchanges and mainline freeway.

Consultant will conduct the following work subtasks:

- **Project Methods and Assumptions Memorandum.** Before micro-simulation modeling begins, Consultant will develop a draft and final Project Methods and Assumptions memorandum. The project methods and assumptions document will describe the modeling assumptions, study area and schedule.
- **Existing Conditions Model.** Consultant will develop a draft and final p.m. peak hour existing conditions model for calibration purposes that consists of up to 15 intersections and mainline I-5. The Consultant and City will agree on the study area before beginning this task. The existing conditions VISSIM microsimulation model will be developed for the study area including I-5 mainline using aerial imagery, roadway paint-line sketches, interstate plan and profile drawings, and posted speed limit and regulatory signs to reflect current interchange and local street alignments, geometry, and operational characteristics. The project Synchro model will be used to develop signal timing parameters at ramp interchanges for input into VISSIM. Consultant will use existing signal timing data, perform a field review of traffic operating conditions (including identification of key operational constraints during the p.m. peak hour). The existing conditions VISSIM model for the p.m. peak design hour will be calibrated to existing traffic conditions using count data, 24-hour tube counts, saturation flow rates, queuing data, and observations of field conditions and driver behavior within the study area. The Consultant will prepare a memorandum that describes the results of the existing conditions model.
- **Future Year Analysis.** Consultant will use the VISSIM model to analyze a future no-build scenario and one future build alternative for the horizon year 2040 and the opening year 2020. This results in a total of four future year VISSIM models: 1) 2020 no-build, 2) 2040 no-build, 3) 2020 build, and 4) 2040 build. The geometric configurations shall be determined and agreed upon (documented) before outset of this work task. Consultant will evaluate and document the traffic operational and vehicle queuing

issues related to the alternatives. As part of the development of the alternative models, there may be mitigations that are identified; this task will include one round of mitigation testing for the build alternative.

- **3D Visual simulations.** Consultant will develop 3D visual simulations (including up to four videos) for the two future year models (build and no-build). Consultant will report measures of effectiveness from the VISSIM model including vehicle queuing, intersection delay, and travel time runs.
- **Draft and Final Technical Memorandum.** Consultant will prepare a draft and final technical memorandum to document the assumptions, analysis findings and results of the VISSIM analysis.

#### Accident Analysis:

Consultant will update the available accident data at the study area intersections. The accident analysis will include the following:

- Type of Accidents
- Severity of Accidents
- Accident Rate
- Contributing Factors and Conclusions

A safety analysis will be conducted discussing the safety benefits and the potential reduction (and/or increase) in accidents with the proposed improvements.

The CONSULTANT shall attend up to five meetings with agency staff during this task.

The CONSULTANT shall complete an interim draft documenting the results of this task to support IJR Policy Point #1 and #3. Upon receiving comments, the CONSULTANT shall revise the draft documentation and submit an updated final version.

#### **Deliverables**

- Draft and final VISSIM project methods and assumptions memorandum
- Existing calibrated p.m. peak hour VISSIM model with corresponding memorandum
- Future no-build year 2040 VISSIM model
- One future year p.m. peak hour year 2040 VISSIM model
- 3D visual simulations (including up to a total of four videos) for the two future year models
- Draft and final VISSIM analysis and findings technical memorandum
- Draft IJR Policy Point #1 and #3 Documentation (electronic copy)
- Final IJR Policy Point #1 and #3 Documentation (electronic copy)
- Attendance at up to five project team meetings

## **WORK ELEMENT 8: INTERCHANGE JUSTIFICATION REPORT**

### **Task 8.1 – Interchange Justification Report**

CONSULTANT shall prepare an IJR for the Proposed Action. The report shall be developed in accordance with WSDOT's Design Manual Chapter 1425. The analysis shall document that the Proposed Action meets the PROJECT's purpose and need statement and will meet the eight point requirements for FHWA approval. The IJR will be reviewed by the CITY, WSDOT, and FHWA. For budgeting purposes, the CONSULTANT shall assume two reviews of the draft IJR by the CITY and WSDOT with each review taking up to 3 weeks, with an additional 2-month review by FHWA.

#### **Deliverable(s)**

- Two draft IJR's (one electronic pdf copy and five hard copies), including operational analysis data files
- Final IJR (one electronic pdf copy and five hard copies)

## **WORK ELEMENT 9: PRELIMINARY ENGINEERING**

### **Task 9.1 – Hydraulics Report**

The CONSULTANT shall prepare a Type A hydraulics report meeting outlined standards of the WSDOT Hydraulics Manual and the updated Highway Runoff Manual procedures. The report shall follow WSDOT's Southwest Regions Stormwater Report Checklist and Template using the portions applicable for a hydraulics report. Work outside WSDOT ROW shall meet CITY's design standards.

For budgeting purposes, it is assumed that the CITY and WSDOT will review the hydraulic report three times and provide one consolidated set of comments for each review. After each review, as part of the next submittal, the CONSULTANT shall respond to each review comment indicating how and where the comment was addressed.

The CONSULTANT shall prepare preliminary drainage design plans to the 30 percent design level.

#### **Deliverable(s)**

- Two draft hydraulics reports for review (one electronic copy)
- Final hydraulics report for approval (one electronic copy and five hard copies)
- Preliminary drainage plans

### **Task 9.2 – Preliminary Plans**

The CONSULTANT will prepare preliminary plans for the project. The objective of this task is to develop project geometrics and engineering design necessary to describe enough of the project to produce the channelization plans of Task 9.4 below, as well as to identify additional ROW needs. The following plans will be included in the preliminary plans set.

- Alignment plans
- Profiles
- Roadway Sections
- Pavement Markings
- Existing Utilities
- Preliminary ROW plans (showing boundaries only and not intended for approval)
- Drainage plans and profiles (as developed for task 9.1)

**Deliverable(s)**

- Preliminary plans

**Task 9.3 – Preliminary Cost Estimates**

The CONSULTANT shall prepare preliminary cost estimates for the PROJECT. The cost estimate for the alternatives screening process will consist of estimates developed for two options using square footage costs for major items such as structures, new roads/alignments, walls and additional right-of-way. The cost estimate at the 30 percent level will be an overall program cost and will rely on available quantities and square footage costs for pertinent items such as structures. The 30 percent cost estimate shall consider the following items.

- Earthwork
- Paving
- Stormwater Conveyance
- Walls (per square foot estimate)
- Structures (per square foot estimate)
- Right-of-Way
- Mitigation

**Assumption(s)**

- The CITY will provide approximate square footage costs to for additional right-of-way
- One set of design team plans (1/2 size) and specifications via hardcopy or Adobe PDF format “to scale” (full or 1/2 scale) via email/FTP site will be provided to the CONSULTANT prior to development of the cost estimates
- The CONSULTANT will develop the cost estimate in Unifomat work breakdown structure with quantities and single unit cost with summary sheet showing construction markups and construction cost total.
- The estimating work will not include:
  - Owner’s soft cost estimate
  - Site visit (except at the Value Engineering study)
  - Major reformatting of the estimate
- Construction schedule, life cycle costs and value engineering studies.

**Deliverable(s)**

- Cost estimates for two alternatives analysis (electronic and five hard copies)
- 30 percent preliminary estimates (electronic and five hard copies)

#### **Task 9.4 – Channelization Plans for Approval**

The CONSULTANT shall prepare channelization plans for approval of the new interchange within the project limits. The plans shall be prepared using the latest MUTCD and WSDOT Design Manual guidelines. The plans shall be prepared at 1"=100' scale. The plans shall show elements outlined in the WSDOT Southwest Region Design Guidelines, and the WSDOT Southwest Region Checklist for Channelization Plans. For budgeting purposes, it is assumed that WSDOT will review the channelization plans three times and provide one consolidated set of comments for each review. After each review, as part of the next submittal, the CONSULTANT shall respond to each review comment indicating how and where the comment was addressed.

##### **Deliverable(s)**

- Three submittals draft channelization plans for review (two 11x17 hard copies)
- Final channelization plans for approval (one electronic copy and one full-size velum copy)

#### **Task 9.5 – Design Variance**

The CONSULTANT shall prepare a list of recommended design deviations, evaluate upgrades, and design exceptions. The CONSULTANT shall submit for approval each recommended deviation and evaluated upgrade. These documents shall be the basis for the development of deviations and evaluate upgrades.

For budgeting purposes, it is assumed that WSDOT will review the deviations and evaluate upgrades three times and provide one consolidated set of comments for each review with each review taking four weeks. All deviations dealing with I-5 will also require FHWA review and approval and additional review time. After each review, as part of the next submittal, the CONSULTANT shall respond to each review comment indicating how and where the comment was addressed.

##### **Deliverable(s)**

- Design variance inventory (one electronic copy and one hard copy)
- Three draft design deviations and evaluate upgrades for approval (two hard copies)
- Three review comment responses
- Final design deviations and evaluate upgrades for approval (one electronic copy and two hard copies)

#### **Task 9.6 – Construction Phasing Plan**

The CONSULTANT shall prepare a phasing plan for the preferred alternative. The phasing plan should also include a planning level cost estimate for each individual component and phase of construction. The CONSULTANT shall prepare a phasing plan/memorandum for review and endorsement by the TAC.

## **WORK ELEMENT 10: UTILITY COORDINATION**

The CONSULTANT will provide utility coordination at a level consistent with preliminary engineering (30%) design. The CONSULTANT shall coordinate with representatives from the following private utility companies; Cascade Natural, Cowlitz PUD, Comcast Cable, Qwest Communications, Frontier Communications, Level 3 Communications, and 360 Networks USA, as well as City Operations staff. The following tasks are included in this work element:

- Prepare and mail City-approved informational letter to utility companies involved to explain nature of work. Maintain record of correspondence with utility companies.
- Conduct one site visit to verify utility basemapping prepared under Work Element 4. Distribute utility basemapping to utility representatives for review and coordinate with project team surveyors to revise basemapping based on feedback regarding errors or omissions.
- Utility Kick-off Meeting - Conduct one meeting with utilities (Cascade Natural, Cowlitz PUD, Comcast Cable, Qwest Communications, Frontier Communications, Level 3 Communications, and 360 Networks USA and City Operations) to discuss existing utilities, anticipated impacts and areas of concern, and to request record drawings.
- Utility Coordination Meeting - Conduct one meeting with utilities to discuss preliminary engineering (30%) plans and identify major private utility conflicts to be resolved.
- Utility Conflict Memorandum – prepare a technical memorandum (approximately 2 to 4 pages) identifying utility issues, major conflicts, and action plan. Coordinate with utility providers to determine cost responsibility for relocations. Identify special construction-related requirements for each utility to aid with preliminary engineering cost estimates. Identify hazardous utility materials requiring special handling. Submit for CITY review. Revise per CITY comments and submit final memorandum.

### **Assumptions**

- Subsurface utility exploration (potholing) is not included.

### **Deliverables**

- Informational letter, one (1) electronic .pdf, one (1) hard copy
- Draft/final meeting notes, electronic .pdf file
- Draft/final Utility Conflict Memorandum, one (1) electronic .pdf, one (1) hard copy

## **PREPARATION REQUIREMENTS**

It is anticipated that all design and engineering for facilities located within WSDOT ROW will be developed using English units in accordance with the latest edition, amendments, and

revisions of the publications listed below. Design and engineering of facilities located within the CITY will comply with CITY standards and design policies or in accordance with the following publications as directed by CITY staff.

### **Washington State Department of Transportation Publications**

- Design Manual (M 22-01)
- Highway Runoff Manual (M31-016.1) in conjunction with Hydraulics Manual (M 23-03)
- Plans Preparation Manual (M 22-31)
- Amendments and General Special Provisions
- Standard Item Table
- R/W Manual
- Environmental Procedures Manual (M31-1)
- Northwest Region Current Practices in Signal Design, including
  - Back Up Data Requirements (Illumination)
  - Engineering Back Up Data Requirements (Signals)
  - Plans Preparation Checklist
  - Northwest Region Standard Loop Numbering
  - Placement of Advanced Loops
- Guidelines for Developing Freshwater Mitigation Plans and Proposals (DOE, 1994)
- American Association of State Highway and Transportation Officials Publications (Latest Versions)
- A Policy on Geometric Design of Highways and Streets
- Standard Specifications for Highway Bridges, Sixteenth Edition
- A Guide for Highway Landscape and Environmental Design
- Highway Design and Operational Practices Related to Highway Safety (Yellow book)
- Roadside Design Guide
- Any American Association of State Highway Officials policy applicable where said policy is not in conflict with the standards of State

### **U.S. Department of Transportation Publications**

- Manual on Uniform Traffic Control Devices for Streets and Highways

- Highway Capacity Manual

**Washington State Department of Ecology Publications**

- 2005 DOE Stormwater Management Manual for Western Washington

**Other Publications**

- National Electrical Code
- Applicable County and City Publications

**Computer Hardware and Software**

The CONSULTANT shall provide the PS&E package in the IBM-compatible format of

- Microsoft Office - Windows NT Version 4.0 or latest
- Microsoft Project - Version 4.1a or latest
- Internet Access with Transport Control Protocol/File Transfer Protocol (TCP/FTP) capabilities and the CONSULTANT shall have an e-mail address
- CADD - MicroStation, Bentley Systems, Inc. - MicroStation J or latest version, including continuous updates and AutoCAD 2013
- Design Software - Inroads latest version, including continuous updates

The CONSULTANT shall obtain the latest versions of CITY's manuals.

Obtaining AASHTO, USDOT, and other non-WSDOT or CITY publications shall be the CONSULTANT's responsibility.

EXHIBIT C: Consultant Fee Determination

Analysis of Costs - BergerABAM Inc.

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
Principal	139	\$82.94	\$ 11,529
Project Manager	2046	\$64.95	132,888
Project Engineer	2948	\$44.11	130,036
Engineer/ Designer	2947	\$31.07	91,563
Planner/ Scientist	1596	\$38.27	61,079
Planner/PI	545	\$35.40	19,293
Graphics/ CADD	690	\$33.80	23,322
Project Coordinator	386	\$30.32	11,704
Direct Salary Cost Total	11297		\$ 481,413
Salary Escalation (see escalation tab)			\$ 21,664

<u>Overhead Cost</u>	<u>155.00%</u>	of DSC	\$ 779,769
<u>Net Fee</u>	<u>30.00%</u>	of DSC	\$ 150,923

**SUBTOTAL** \$ 1,433,769

Reimbursables

Travel/Parking		\$	396
Reproduction/Postage			1,750
Computer/Special Equipment			-
Miscellaneous			1,750

**SUBTOTAL** 3,896

**BergerABAM SUBTOTAL** 72.5% \$ 1,437,665

Subconsultants: (See Exhibit G)

AINW	1.5%	Participation	\$ 29,353.15
DKS Associates	12.8%	Participation	\$ 253,953.93
ENVIRON	3.0%	Participation	\$ 59,114.78
HartCrowser	1.0%	Participation	\$ 18,901.15
OTAK	1.3%	Participation	\$ 25,150.55
Zazan Group	1.8%	Participation	\$ 35,878.75
PRODIMS	1.2%	Participation	\$ 24,326.89

**SUBCONSULTANTS SUBTOTAL** \$ 446,679

**Management Reserve** \$ 100,000

**GRAND TOTAL** \$ 1,984,344

Prepared By \_\_\_\_\_

Date \_\_\_\_\_

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

**BergerABAM Inc.**

**REIMBURSABLES**

	Units	at	Cost		
<b>Travel/Parking</b>					
Miles	700	\$	0.565	\$	395.50
Parking				\$	-
					<b>Travel Subtotal</b>
					<b>\$395.50</b>
<b>Reproduction/Postage</b>					
2 X 3 Boards	6	\$	50.00	\$	300.00
Facts Sheet Printing (1200)	1200	\$	0.50	\$	600.00
Facts Sheet Postage and Mailing	1000	\$	0.75	\$	750.00
Courier	4	\$	25.00	\$	100.00
					<b>Reproduction Subtotal</b>
					<b>\$1,750.00</b>
<b>Computer/Special Equipment</b>					
Computer Time				\$	-
				\$	-
				\$	<b>Computer Subtotal</b>
					-
<b>Miscellaneous</b>					
Document Translation	1	\$	1,500.00	\$	1,500.00
Other Miscellaneous Expenses	1	\$	250.00	\$	250.00
				\$	-
					<b>Miscellaneous Subtotal</b>
					<b>\$1,750.00</b>

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
<b>1.0</b>	<b>PROJECT MANAGEMENT</b>									
1.1	Implement QC Program	380	-	-	-	-	-	-	0	380
1.2	Monthly Progress Reports and Billing									
	Monthly Progress Reports	18	-	-	-	-	-	-	0	18
	Monthly Invoicing	72	-	-	-	-	-	-	0	72
	<i>SubTotal</i>	90	0	0	0	0	0	0	0	90
1.3	Biweekly Progress Meetings									
	Meeting Agendas (26 max)	26	-	-	-	-	-	-	0	26
	Meeting Attendance (26 max)	258	-	-	16	-	-	-	0	274
	Meeting Notes (26 max)	104	-	-	-	-	-	-	0	104
	<i>SubTotal</i>	388	0	0	16	0	0	0	0	404
1.4	Project Administration									
	Project Administration	522	-	-	-	-	-	-	0	522
	Internal City Memos (12 Max)	48	-	-	-	-	-	-	0	48
	Council Briefings (4 Max)	36	-	-	-	-	-	-	0	36
	<i>SubTotal</i>	606	0	0	0	0	0	0	0	606
1.5	Project Schedule									
	Prepare Project Schedule	40	-	-	-	-	-	-	0	40
	Ongoing Schedule Tracking and Maintenance	60	-	-	-	-	-	-	0	60
	<i>SubTotal</i>	100	0	0	0	0	0	0	0	100
	<b>TASK HOURS</b>	<b>1564</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1580</b>
	<b>Rounded Cost Subtotals=</b>	<b>\$ 261,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,173</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 263,673.38</b>
<b>2.0</b>	<b>PUBLIC INVOLVEMENT</b>									
2.1	Public Involvement Plan									
	Population Maps	4	-	-	-	-	-	-	0	4
	Property and Business Ownership Aerial Map	4	-	-	-	-	-	-	0	4
	Draft PIP	26	-	-	-	-	-	-	0	26
	Final PIP	11	-	-	-	-	-	-	0	11
	<i>SubTotal</i>	45	0	0	0	0	0	0	0	45

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
2.2	Stakeholder Interview									
	Interview Planning Mtg with City	6	-	-	-	-	-	-	0	6
	Interview Questions	5	-	-	-	-	-	-	0	5
	Stakeholder Interviews (25 max)	60	-	-	-	-	-	-	0	60
	Draft Stakeholder Findings Summary Report	18	-	-	-	-	-	-	0	18
	Final Stakeholder Findings Summary Report	9	-	-	-	-	-	-	0	9
	<i>SubTotal</i>	98	0	0	0	0	0	0	0	98
2.3	Newsletters & Posters									
	Original Newsletter	48	-	-	-	-	-	-	0	48
	Newsletter Updates (3 max)	36	-	-	-	-	-	-	0	36
	Poster	23	-	-	-	-	-	-	0	23
	<i>SubTotal</i>	107	0	0	0	0	0	0	0	107
2.4	Project Website									
	Original Website	100	-	-	-	-	-	-	0	100
	On-Going Maintenance	38	-	-	-	-	-	-	0	38
	Substantive Updates (5 max)	62	-	-	-	-	-	-	0	62
	<i>SubTotal</i>	200	0	0	0	0	0	0	0	200
2.5	Open House									
	Preplanning Preparation and Meeting	12	-	6	-	-	-	-	0	18
	Graphics and Boards	36	-	-	-	-	-	-	0	36
	Meeting Materials (Sign-in sheets, etc.)	7	-	-	-	-	-	-	0	7
	Meeting Notes	3	-	-	-	-	-	-	0	3
	Open House Attendance	18	-	3	-	-	-	-	0	21
	Open House Summary Document	9	-	-	-	-	-	-	0	9
	<i>SubTotal</i>	85	0	9	0	0	0	0	0	94
2.6	Small Group Meetings									
	Small Group Meetings	0	-	-	-	-	-	-	0	0
	Meeting Notes	0	-	-	-	-	-	-	0	0
	Meeting Materials	0	-	-	-	-	-	-	0	0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>535</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>544</b>
	<b>Cost Subtotals=</b>	<b>\$ 60,580</b>	<b>\$ -</b>	<b>\$ 1,441</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 62,021</b>

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
<b>3.0</b>	<b>CONSENSUS BUILDING</b>									
3.1	Chartering Meeting									
	Meeting Agenda and Preparation	6	-	-	-	-	-	-	0	6
	Meeting Attendance	10	-	3	-	-	-	-	0	13
	Team Chartering Tech Memorandum	10	-	-	-	-	-	-	0	10
	<i>SubTotal</i>	26	0	3	0	0	0	0	0	29
3.2	TAC Support									
	Meeting Agendas and Presentations (12 max)	36	-	-	-	-	-	-	0	36
	Meeting Attendance (12 max)	72	-	24	-	8	-	-	0	104
	Meeting Notes (12 max)	44	-	-	-	-	-	-	0	44
	<i>SubTotal</i>	152	0	24	0	8	0	0	0	184
3.3	TAC Recommendation on the Proposed Configuration									
	Draft TAC Recommendation Letter	64	-	-	-	-	-	-	0	64
	Final TAC Recommendation Letter	20	-	-	-	-	-	-	0	20
	<i>SubTotal</i>	84	0	0	0	0	0	0	0	84
3.4	Executive Committee Support									
	Meeting Agendas and Presentations (4 max)	12	-	-	-	-	-	-	0	12
	Meeting Attendance (4 max)	24	-	-	-	-	-	-	0	24
	Meeting Notes (4 max)	14	-	-	-	-	-	-	0	14
	<i>SubTotal</i>	50	0	0	0	0	0	0	0	50
3.5	Project Advisory Group Support									
	Meeting Agendas and Presentations (6 max)	12	-	-	-	-	-	-	0	12
	Meeting Attendance (6 max)	54	-	12	-	-	-	-	0	66
	Meeting Notes (6 max)	29	-	-	-	-	-	-	0	29
	<i>SubTotal</i>	95	0	12	0	0	0	0	0	107
	<b>TASK HOURS</b>	<b>407</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>454</b>
	<b>Cost Subtotals=</b>	<b>\$ 64,389</b>	<b>\$ -</b>	<b>\$ 7,170</b>	<b>\$ -</b>	<b>\$ 1,599</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 73,158</b>

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
<b>4.0</b>	<b>BASE MAPPING</b>									
4.1	Survey and Base Map									
	Prepare topographic base map from existing GIS data	2	-	-	-	-	90	-	0	92
	Map of existing utilities via GIS and field observations	2	-	-	-	-	130	-	0	132
	SubTotal	4	0	0	0	0	220	0	0	224
	<b>TASK HOURS</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>224</b>
	<b>Cost Subtotals=</b>	<b>\$ 774</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 17,583</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 18,357</b>
<b>5.0 CONFIGURATION SELECTION</b>										
5.1	Develop Screening Process for Alternatives and Matrix									
	Draft Screening Criteria	54	-	8	-	-	-	-	0	62
	Final Screening Criteria	10	-	2	-	-	-	-	0	12
	Screening/Decision Matrix	14	-	12	-	-	-	-	0	26
	SubTotal	78	0	22	0	0	0	0	0	100
5.2	Alternatives Evaluated									
5.2.1	Identification of Alternatives and Brainstorming Session	136	-	16	-	-	-	-	0	152
	Prepare Build Alternatives Development Session Materials	48	-	-	-	-	-	-	0	48
	Conduct Build Alternatives Development Meeting	16	-	4	-	-	-	-	0	20
	Summary of Build Alternatives Development Meeting	66	-	-	-	-	-	-	0	66
5.2.2	Limited Construction Alternatives Analysis	12	-	-	-	-	-	-	0	12
5.2.3	Prepare No-Action Alternative	24	-	-	-	-	-	-	0	24
	SubTotal	302	0	20	0	0	0	0	0	322
5.3	Geotechnical Reconnaissance Memo									
	Draft Geotechnical Reconnaissance Memo	8	-	-	-	98	-	-	0	106
	Final Geotechnical Reconnaissance Memo	4	-	-	-	22	-	-	0	26
	SubTotal	12	0	0	0	120	0	0	0	132
5.4	Alternatives Screening									
	Level 1 Screening Technical Memorandum	92	-	12	-	-	-	-	0	104
	Level 2 Screening Technical Memorandum	92	-	12	-	-	-	-	0	104
	20% Engineering (4 Alternatives max)	1785	-	-	-	-	-	-	0	1785
	25% Engineering for VE Study (2 Alternatives max)	168	-	-	-	-	-	-	0	168
	Coucil Briefings Presentations Preparation	10	-	-	-	-	-	-	0	10
	Coucil Briefings Attendance (4 max)	16	-	-	-	-	-	-	0	16
	SubTotal	2163	0	24	0	0	0	0	0	2187

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
5.5	Value Engineering Study									
	Value Analysis Review	105	-	-	-	-	-	94	37	236
	Recommended Alternatives Report	6	-	-	-	-	-	24	2	32
	Value Engineering Workshop	99	-	8	-	-	-	98	39	244
	Value Engineering Report	6	-	-	-	-	-	32	2	40
	Evaluation and Recommendation VE Memo	30	-	-	-	-	-	4	0	34
	<i>SubTotal</i>	246	0	8	0	0	0	252	80	586
5.6	Alternatives Summary Report									
	Draft Alternatives Summary Report	268	-	-	-	-	-	-	0	268
	Final Alternatives Summary Report	84	-	-	-	-	-	-	0	84
	<i>SubTotal</i>	352	0	0	0	0	0	0	0	352
	<b>TASK HOURS</b>	<b>3153</b>	<b>0</b>	<b>74</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>252</b>	<b>80</b>	<b>3679</b>
	<b>Cost Subtotals=</b>	<b>\$ 389,461</b>	<b>\$ -</b>	<b>\$ 12,109</b>	<b>\$ -</b>	<b>\$ 17,130</b>	<b>\$ -</b>	<b>\$ 32,228</b>	<b>\$ 13,200</b>	<b>\$ 450,928</b>
<b>6.0 ENVIRONMENTAL REVIEW AND DOCUMENTATION</b>										
6.1	Project Purpose and Need									
	Draft Purpose and Need	20	-	6	-	-	-	-	0	26
	Final Purpose and Need	12	-	-	-	-	-	-	0	12
	<i>SubTotal</i>	32	0	6	0	0	0	0	0	38
6.2	Environmental Methods and Assumptions Memorandum									
	Team Coordination Meetings (5 max)	50	-	-	-	-	-	-	0	50
	Agency Coordination Meetings (4 max)	56	-	-	-	-	-	-	0	56
	Draft Envrn Methods and Assumptions Memo	28	-	-	-	-	-	-	0	28
	Final Envrn Methods and Assumptions Memo	16	-	-	-	-	-	-	0	16
	<i>SubTotal</i>	150	0	0	0	0	0	0	0	150
6.3	Corridor-Level Environmental Site Assessment (ESA)									
	Data Collection and Field Work	81	-	-	-	-	-	-	0	81
	Draft Corridor Level ESA Letter Report	58	-	-	-	-	-	-	0	58
	Final Corridor Level ESA Letter Report	26	-	-	-	-	-	-	0	26
	<i>SubTotal</i>	165	0	0	0	0	0	0	0	165

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
6.4	Cultural and Historic Resouces Study									
	Draft APE Submittal	8	18	-	-	-	-	-	0	26
	Final APE Submittal	2	-	-	-	-	-	-	0	2
	Draft Cultural Resources Report	8	295	-	-	-	-	-	0	303
	Final Cultural Resources Report	4	10	-	-	-	-	-	0	14
	<i>SubTotal</i>	22	323	0	0	0	0	0	0	345
6.5	Wetlands and Critical Areas Study									
	Data Collection and/or Field Work	32	-	-	-	-	-	-	0	32
	Draft Memo	102	-	-	-	-	-	-	0	102
	Final Memo	66	-	-	-	-	-	-	0	66
	<i>SubTotal</i>	200	0	0	0	0	0	0	0	200
6.6	Air Quality Analysis									
	Traffic Data Review	0	-	14	60	-	-	-	0	74
	Analysis	2	-	-	102	-	-	-	0	104
	Draft Air Quality Analysis Report	8	-	-	68	-	-	-	0	76
	Final Air Quality Analysis Report	2	-	-	28	-	-	-	0	30
	<i>SubTotal</i>	12	0	14	258	0	0	0	0	284
6.7	Noise Analysis									
	Sound Level Measurements	0	-	-	32	-	-	-	0	32
	Construction Noise Impact Evaluation	0	-	-	8	-	-	-	0	8
	Traffic Noise Impact Evaluation	0	-	14	56	-	-	-	0	70
	Mitigation Analysis	1	-	-	16	-	-	-	0	17
	Draft Traffic Noise Report	2	-	-	76	-	-	-	0	78
	Final Traffic Noise Report	2	-	-	16	-	-	-	0	18
	<i>SubTotal</i>	5	0	14	204	0	0	0	0	223
6.8	ESA Compliance and Assessment									
	Analysis and Draft Report	206	-	-	-	-	-	-	0	206
	Final Report	86	-	-	-	-	-	-	0	86
	WSDOT Coordination	2	-	-	-	-	-	-	0	2
	<i>SubTotal</i>	294	0	0	0	0	0	0	0	294
6.9	Social, Economic and Land Use Impacts Study									
	Data Collection & Analysis, Coordination	48	-	-	-	-	-	-	0	48
	Report Preparation	140	-	-	-	-	-	-	0	140
	Final Report (Revisions from City, WSDOT, FHWA)	54	-	-	-	-	-	-	0	54
	<i>SubTotal</i>	242	0	0	0	0	0	0	0	242

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
6.10	Environmental Justice									
	Data Collection and Field Work	24	-	-	-	-	-	-	0	24
	Analysis and Draft Report	100	-	-	-	-	-	-	0	100
	Final Report & WSDOT Revisions	50	-	-	-	-	-	-	0	50
	<i>SubTotal</i>	174	0	0	0	0	0	0	0	174
6.11	Visual Quality Technical Memorandum									
	Data Collection and Field Work	40	-	-	-	-	-	-	0	40
	Draft Visual Quality Memorandum	80	-	-	-	-	-	-	0	80
	Final Visual Quality Memorandum	40	-	-	-	-	-	-	0	40
	<i>SubTotal</i>	160	0	0	0	0	0	0	0	160
6.12	Water Quality/Stormwater Technical Memorandum									
	Analysis and Modeling	84	-	-	-	-	-	-	0	84
	Draft Water Quality/Stormwater Memorandum	44	-	-	-	-	-	-	0	44
	Final Water Quality/Stormwater Memorandum	28	-	-	-	-	-	-	0	28
	<i>SubTotal</i>	156	0	0	0	0	0	0	0	156
6.13	NEPA Documentation and Approval									
	Draft DCE	118	-	-	4	-	-	-	0	122
	Final DCE & WSDOT Coordination	56	-	-	4	-	-	-	0	60
	<i>SubTotal</i>	174	0	0	8	0	0	0	0	182
6.14	SEPA Documentation and Approval									
	SEPA Checklist Review and Support	122	-	-	4	-	-	-	0	126
	Draft Determination of Non-Significance (DNS)	18	-	-	-	-	-	-	0	18
	Final DNS & Response to Comments	16	-	-	16	-	-	-	0	32
	<i>SubTotal</i>	156	0	0	20	0	0	0	0	176
	<b>TASK HOURS</b>	<b>1942</b>	<b>323</b>	<b>34</b>	<b>490</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2789</b>
	<b>Cost Subtotals=</b>	<b>\$ 231,800</b>	<b>\$ 28,988</b>	<b>\$ 3,942</b>	<b>\$ 55,538</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 320,269</b>

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
<b>7.0</b>	<b>TRAVEL DEMAND FORECASTING &amp; OPERATIONAL ANALYSIS</b>									
	Traffic Forecasting and Modeling for Alternatives Selection									
7.1	Background Document and Data Collection	0	-	132	-	-	-	-	0	132
7.2	Existing Transportation Conditions Analysis	4	-	157	-	-	-	-	0	161
7.3	Future Traffic Volume Forecasting For Alternatives Analysis	4	-	133	-	-	-	-	0	137
7.4	Future Alternatives Traffic Analysis	4	-	389	-	-	-	-	0	393
	<i>SubTotal</i>	12	0	811	0	0	0	0	0	823
	Traffic Forecasting and Modeling for IJR									
7.5	Refinement of Future Travel Demand Forecasting to Support IJR	4	-	275	-	-	-	-	0	279
7.6	Refined Future Traffic Conditions Analysis to Support IJR	4	-	1,014	-	-	-	-	0	1018
	<i>SubTotal</i>	8	0	1289	0	0	0	0	0	1297
	<b>TASK HOURS</b>	<b>20</b>	<b>0</b>	<b>2100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2120</b>
	<b>Cost Subtotals=</b>	<b>\$ 3,869</b>	<b>\$ -</b>	<b>\$ 213,425</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>217293.5947</b>
<b>8.0</b>	<b>INTERCHANGE JUSTIFICATION REPORT</b>									
8.1	Interchange Justification Report									
	Draft No.1 of IJR	404	-	90	-	-	-	-	0	494
	Response to Draft No. 1 Comments	12	-	-	-	-	-	-	0	12
	Draft No. 2 of IJR	202	-	28	-	-	-	-	0	230
	Response to Draft No. 2 Comments	12	-	-	-	-	-	-	0	12
	Final of IJR	50	-	-	-	-	-	-	0	50
	<i>SubTotal</i>	680	0	118	0	0	0	0	0	798
	<b>TASK HOURS</b>	<b>680</b>	<b>0</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>798</b>
	<b>Cost Subtotals=</b>	<b>\$ 85,321</b>	<b>\$ -</b>	<b>\$ 12,466</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 97,787</b>

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
<b>9.0</b>	<b>PRELIMINARY ENGINEERING</b>									
9.1	Hydraulics Report									
	Data Collection and Analysis	204	-	-	-	-	-	-	0	204
	Draft No. 1 of Hydraulics Report	544	-	-	-	-	-	-	0	544
	Response to Draft No.1 Comments	36	-	-	-	-	-	-	0	36
	Draft No. 2 of Hydraulics Report	176	-	-	-	-	-	-	0	176
	Response to Draft No. 2 Comments	18	-	-	-	-	-	-	0	18
	Final Hydraulics Report	112	-	-	-	-	-	-	0	112
	<i>SubTotal</i>	1090	0	0	0	0	0	0	0	1090
9.2	Preliminary Plans									
1	Cover Sheet	14	-	-	-	-	-	-	0	14
1	Vicinity Map	14	-	-	-	-	-	-	0	14
5	Alignment and ROW	68	-	-	-	-	-	-	0	
5	Roadway Sections	68	-	-	-	-	-	-	0	
5	Site Preparation	68	-	-	-	-	-	-	0	
5	Roadway Profiles	68	-	-	-	-	-	-	0	
5	Drainage Plans	68	-	-	-	-	-	-	0	
5	Drainage Profiles	68	-	-	-	-	-	-	0	
1	Structure Plan & Elevation	14	-	-	-	-	-	-	0	
6	Walls	80	-	-	-	-	-	-	0	80
5	Pavement Markings	68	-	-	-	-	-	-	0	68
5	Paving Plans	68	-	-	-	-	-	-	0	
2	Miscellaneous	26	-	-	-	-	-	-	0	26
	<i>SubTotal</i>	692	0	0	0	0	0	0	0	692
9.1	Preliminary Cost Estimate	168	-	-	-	-	-	-	64	232
9.4	Channelization Plans for Approval									
	Draft No. 1 of Channelization Plans	460	-	-	-	-	-	-	0	460
	Draft No. 2 of Channelization Plans	168	-	-	-	-	-	-	0	168
	Draft N. 3 of Channelization Plans	108	-	-	-	-	-	-	0	108
	Final Channelization Plans	22	-	-	-	-	-	-	0	22
	<i>SubTotal</i>	758	0	0	0	0	0	0	0	758

BergerABAM Inc. Labor Estimate

		ABAM	AINW	DKS Associates	ENVIRON	Hart Crowser	OTAK	Zazan Group	PRODIMS	TOTAL
<b>DESCRIPTION</b>										
9.5	Design Variance									
	Design Variance Inventory	13	-	-	-	-	-	-	0	13
	Draft No. 1 of Deviations and EUs (4 max)	88	-	-	-	-	-	-	0	88
	Draft No. 2 of Deviations and EUs (4 max)	48	-	-	-	-	-	-	0	48
	Draft No. 3 of Deviations and EUs (4 max)	24	-	-	-	-	-	-	0	24
	Final Deviations and EUs (4 max)	16	-	-	-	-	-	-	0	16
	<i>SubTotal</i>	189	0	0	0	0	0	0	0	189
9.6	Construction Phasing Plan									
	Component Estimate of Preferred Configurion	25	-	-	-	-	-	-	0	25
	Draft Phasing Plan (1 max)	40	-	-	-	-	-	-	0	40
	Final Phasing Plan (1 max)	14	-	-	-	-	-	-	0	14
	<i>SubTotal</i>	79	0	0	0	0	0	0	0	79
	<b>TASK HOURS</b>	<b>2976</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>3040</b>
	<b>Cost Subtotals=</b>	<b>\$ 337,975</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,560</b>	<b>\$ 337,975</b>
<b>10.0 UTILITY COORDINATION</b>										
8.1	Utility Coordination									
	Utility Research	2	-	-	-	-	12	-	0	14
	Utility Kick-off Meeting	2	-	-	-	-	6	-	0	8
	Utility Coordination Meeting	2	-	-	-	-	8	-	0	10
	Draft Utility Conflict Memorandum	8	-	-	-	-	28	-	0	36
	Final Utility Conflict Memorandum	2	-	-	-	-	28	-	0	30
	<i>SubTotal</i>	16	0	0	0	0	82	0	0	98
	<b>TASK HOURS</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>82</b>	<b>0</b>	<b>0</b>	<b>98</b>
	<b>Cost Subtotals=</b>	<b>\$ 2,102</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,285</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,387</b>
	<b>TOTAL PROJECT HOURS</b>	<b>11,297</b>	<b>323</b>	<b>2,374</b>	<b>506</b>	<b>128</b>	<b>302</b>	<b>252</b>	<b>144</b>	<b>15,326</b>

BergerABAM Inc. Labor Estimate

<b>BergerABAM Inc.</b>										
		<b>Principal</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>Engineer/ Designer</b>	<b>Planner/ Scientist</b>	<b>Planner/PI</b>	<b>Graphics/ CADD</b>	<b>Project Coordinator</b>	<b>TOTAL</b>
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
<b>1.0</b>	<b>PROJECT MANAGEMENT</b>									
1.1	Implement QC Program	40	120	200					20	380
1.2	Monthly Progress Reports and Billing									
	Monthly Progress Reports (18 max)		18							18
	Monthly Invoicing (18 max)		36						36	72
	<i>SubTotal</i>	0	54	0	0	0	0	0	36	90
1.3	Biweekly Progress Meetings									
	Meeting Agendas (26 max)		26							26
	Meeting Attendance (26 max)		156	78			24			258
	Meeting Notes (26 max)		26	52					26	104
	<i>SubTotal</i>	0	208	130	0	0	24	0	26	388
1.4	Project Administration									
	Project Administration	12	430						80	522
	Internal City Memos (12 Max)		36						12	48
	Council Briefings (4 Max)		24					12		36
	<i>SubTotal</i>	12	490	0	0	0	0	12	92	606
1.5	Project Schedule									
	Prepare Project Schedule		16	24						40
	Ongoing Schedule Tracking and Maintenance		20	40						60
	<i>SubTotal</i>	0	36	64	0	0	0	0	0	100
	<b>TASK HOURS</b>	<b>52</b>	<b>908</b>	<b>394</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>174</b>	<b>1564</b>
	<b>Cost Subtotals=</b>	<b>\$ 12,845</b>	<b>\$ 175,641</b>	<b>\$ 51,760</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,530</b>	<b>\$ 1,208</b>	<b>\$ 17,516</b>	<b>\$ 261,499.94</b>
									<b>Rounded:</b>	<b>\$ 261,500</b>
<b>2.0</b>	<b>PUBLIC INVOLVEMENT</b>									
2.1	Public Involvement Plan									
	Population Maps						4			4
	Property and Business Ownership Aerial Map						4			4
	Draft PIP	2					24			26
	Final PIP	1					10			11
	<i>SubTotal</i>	3	0	0	0	0	42	0	0	45

BergerABAM Inc. Labor Estimate

BergerABAM Inc.										
		Principal	Project Manager	Project Engineer	Engineer/ Designer	Planner/ Scientist	Planner/PI	Graphics/ CADD	Project Coordinator	TOTAL
DESCRIPTION		\$ 247.02	\$ 193.44	\$ 131.37	\$ 92.53	\$ 113.98	\$ 105.43	\$ 100.66	\$ 90.30	
2.2	Stakeholder Interview									
	Interview Planning Mtg with City	2					4			6
	Interview Questions	2					3			5
	Stakeholder Interviews (25 max)						60			60
	Draft Stakeholder Findings Summary Report		2				16			18
	Final Stakeholder Findings Summary Report		2				7			9
	<i>SubTotal</i>	4	4	0	0	0	90	0	0	98
2.3	Newsletters & Posters									
	Original Newsletter		4				44			48
	Newsletter Updates (3 max)		4				32			36
	Poster		2				21			23
	<i>SubTotal</i>	0	10	0	0	0	97	0	0	107
2.4	Project Website									
	Original Website		8				92			100
	On-Going Maintenance		4				34			38
	Substantive Updates (5 max)		4				58			62
	<i>SubTotal</i>	0	16	0	0	0	184	0	0	200
2.5	Open House									
	Preplanning Preparation and Meeting						12			12
	Graphics and Boards						36			36
	Meeting Materials (Sign-in sheets, etc.)						7			7
	Meeting Notes						3			3
	Open House Attendance		4	4			10			18
	Open House Summary Document		1				8			9
	<i>SubTotal</i>	0	5	4	0	0	76	0	0	85
2.6	Small Group Meetings									
	Small Group Meetings									0
	Meeting Notes									0
	Meeting Materials									0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>7</b>	<b>35</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>489</b>	<b>0</b>	<b>0</b>	<b>535</b>
	<b>Cost Subtotals=</b>	<b>\$ 1,729</b>	<b>\$ 6,770</b>	<b>\$ 525</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 51,555</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 60,580</b>
									<b>Rounded:</b>	<b>\$ 60,600</b>

BergerABAM Inc. Labor Estimate

BergerABAM Inc.										
		Principal	Project Manager	Project Engineer	Engineer/ Designer	Planner/ Scientist	Planner/PI	Graphics/ CADD	Project Coordinator	TOTAL
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
<b>3.0</b>	<b>CONSENSUS BUILDING</b>									
3.1	Chartering Meeting									
	Meeting Agenda and Preparation		4				2			6
	Meeting Attendance	2	4				4			10
	Team Chartering Tech Memorandum		8						2	10
	<i>SubTotal</i>	2	16	0	0	0	6	0	2	26
3.2	TAC Support									
	Meeting Agendas and Presentations (12 max)		24	12						36
	Meeting Attendance (12 max)		48	24						72
	Meeting Notes (12 max)		12	24					8	44
	<i>SubTotal</i>	0	84	60	0	0	0	0	8	152
3.3	TAC Recommendation on the Proposed Configuration									
	Draft TAC Recommendation Letter		20	40					4	64
	Final TAC Recommendation Letter		6	12					2	20
	<i>SubTotal</i>	0	26	52	0	0	0	0	6	84
3.4	Executive Committee Support									
	Meeting Agendas and Presentations (4 max)		8	4						12
	Meeting Attendance (4 max)		16	8						24
	Meeting Notes (4 max)		4	8					2	14
	<i>SubTotal</i>	0	28	20	0	0	0	0	2	50
3.5	Project Advisory Group Support									
	Meeting Agendas and Presentations (6 max)		12							12
	Meeting Attendance (6 max)		24	12			18			54
	Meeting Notes (6 max)		6	12			8		3	29
	<i>SubTotal</i>	0	42	24	0	0	26	0	3	95
	<b>TASK HOURS</b>	<b>2</b>	<b>196</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>21</b>	<b>407</b>
	<b>Cost Subtotals=</b>	<b>\$ 494</b>	<b>\$ 37,914</b>	<b>\$ 20,494</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,374</b>	<b>\$ -</b>	<b>\$ 2,114</b>	<b>\$ 64,389</b>
										<b>\$ 64,400</b>

BergerABAM Inc. Labor Estimate

BergerABAM Inc.										
		Principal	Project Manager	Project Engineer	Engineer/ Designer	Planner/ Scientist	Planner/PI	Graphics/ CADD	Project Coordinator	TOTAL
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
<b>4.0</b>	<b>BASE MAPPING</b>									
4.1	Survey and Base Map									
	Prepare topographic base map from existing GIS data		2							2
	Map of existing utilities via GIS and field observations		2							2
	<i>SubTotal</i>	0	4	0	0	0	0	0	0	4
	<b>TASK HOURS</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ 774</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 774</b>
										<b>\$ 800</b>
<b>5.0</b>	<b>CONFIGURATION SELECTION</b>									
5.1	Develop Screening Process for Alternatives and Matrix									
	Draft Screening Criteria	2	40	12						54
	Final Screening Criteria	2	4	4						10
	Screening/Decision Matrix	2		12						14
	<i>SubTotal</i>	6	44	28	0	0	0	0	0	78
5.2	Alternatives Evaluated									
5.2.1	Identification of Alternatives and Brainstorming Session		24	8	80			24		136
	Prepare Build Alternatives Development Session Materials		8	16	24					48
	Conduct Build Alternatives Development Meeting		8	8						16
	Summary of Build Alternatives Development Meeting		22	32	8				4	66
5.2.2	Limited Construction Alternatives Analysis		4	8						12
5.2.3	Prepare No-Action Alternative		4	20						24
	<i>SubTotal</i>	0	70	92	112	0	0	24	4	302
5.3	Geotechnical Reconnaissance Memo									
	Draft Geotechnical Reconnaissance Memo		8							8
	Final Geotechnical Reconnaissance Memo		4							4
	<i>SubTotal</i>	0	12	0	0	0	0	0	0	12
5.4	Alternatives Screening									
	Level 1 Screening Technical Memorandum		20	48	24					92
	Level 2 Screening Technical Memorandum		20	48	24					92
	20% Engineering (4 Alternatives max)		100	600	985			100		1785
	25% Engineering for VE Study (2 Alternatives max)		8	40	80			40		168
	Council Briefings Presentations Preparation		2					8		10
	Council Briefings Attendance (4 max)		8	8						16
	<i>SubTotal</i>	0	158	744	1113	0	0	148	0	2163

BergerABAM Inc. Labor Estimate

<b>BergerABAM Inc.</b>										
		<b>Principal</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>Engineer/ Designer</b>	<b>Planner/ Scientist</b>	<b>Planner/PI</b>	<b>Graphics/ CADD</b>	<b>Project Coordinator</b>	<b>TOTAL</b>
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
5.5	Value Engineering Study									
	Value Analysis Review	35	70							105
	Recommended Alternatives Report	2	4							6
	Value Engineering Workshop	33	66							99
	Value Engineering Report	2	4							6
	Evaluation and Recommendation VE Memo	0	24						6	30
	<i>SubTotal</i>	72	168	0	0	0	0	0	6	246
5.6	Alternatives Summary Report									
	Draft Alternatives Summary Report		8	60	120			40	40	268
	Final Alternatives Summary Report		4	16	40			16	8	84
	<i>SubTotal</i>	0	12	76	160	0	0	56	48	352
	<b>TASK HOURS</b>	<b>78</b>	<b>464</b>	<b>940</b>	<b>1385</b>	<b>0</b>	<b>0</b>	<b>228</b>	<b>58</b>	<b>3153</b>
	<b>Cost Subtotals=</b>	<b>\$ 19,267</b>	<b>\$ 89,755</b>	<b>\$ 123,488</b>	<b>\$ 128,160</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 22,952</b>	<b>\$ 5,839</b>	<b>\$ 389,461</b>
									<b>Rounded:</b>	<b>\$ 389,500</b>
<b>6.0</b>	<b>ENVIRONMENTAL REVIEW AND DOCUMENTATION</b>									
6.1	Project Purpose and Need									
	Draft Purpose and Need		2			18				20
	Final Purpose and Need		2			10				12
	<i>SubTotal</i>	0	4	0	0	28	0	0	0	32
6.2	Environmental Methods and Assumptions Memorandum									
	Team Coordination Meetings (5 max)		10			40				50
	Agency Coordination Meetings (4 max)		8			48				56
	Draft Envrn Methods and Assumptions Memo		2			26				28
	Final Envrn Methods and Assumptions Memo		2			14				16
	<i>SubTotal</i>	0	22	0	0	128	0	0	0	150
6.3	Corridor-Level Environmental Site Assessment (ESA)									
	Data Collection and Field Work					80			1	81
	Draft Corridor Level ESA Letter Report		2			40		8	8	58
	Final Corridor Level ESA Letter Report		2			16		4	4	26
	<i>SubTotal</i>	0	4	0	0	136	0	12	13	165

BergerABAM Inc. Labor Estimate

<b>BergerABAM Inc.</b>										
		<b>Principal</b>	<b>Project Manager</b>	<b>Project Engineer</b>	<b>Engineer/ Designer</b>	<b>Planner/ Scientist</b>	<b>Planner/PI</b>	<b>Graphics/ CADD</b>	<b>Project Coordinator</b>	<b>TOTAL</b>
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
6.4	Cultural and Historic Resources Study									
	Draft APE Submittal		8							8
	Final APE Submittal		2							2
	Draft Cultural Resources Report		8							8
	Final Cultural Resources Report		4							4
	<i>SubTotal</i>	0	22	0	0	0	0	0	0	22
6.5	Wetlands and Critical Areas Study									
	Data Collection and/or Field Work					32				32
	Draft Memo		2			100				102
	Final Memo		2			64				66
	<i>SubTotal</i>	0	4	0	0	196	0	0	0	200
6.6	Air Quality Analysis									
	Traffic Data Review									0
	Analysis		2							2
	Draft Air Quality Analysis Report		8							8
	Final Air Quality Analysis Report		2							2
	<i>SubTotal</i>	0	12	0	0	0	0	0	0	12
6.7	Noise Analysis									
	Sound Level Measurements									0
	Construction Noise Impact Evaluation									0
	Traffic Noise Impact Evaluation									0
	Mitigation Analysis		1							1
	Draft Traffic Noise Report		2							2
	Final Traffic Noise Report		2							2
	<i>SubTotal</i>	0	5	0	0	0	0	0	0	5
6.8	ESA Compliance and Assessment									
	Analysis and Draft Report		2			180		24		206
	Final Report		2			84				86
	WSDOT Coordination		2			0				2
	<i>SubTotal</i>	0	6	0	0	264	0	24	0	294
6.9	Social, Economic and Land Use Impacts Study									
	Data Collection & Analysis, Coordination		4			28		16		48
	Report Preparation		8			132				140
	Final Report (Revisions from City, WSDOT, FHWA)		2			52				54
	<i>SubTotal</i>	0	14	0	0	212	0	16	0	242

BergerABAM Inc. Labor Estimate

BergerABAM Inc.										
		Principal	Project Manager	Project Engineer	Engineer/ Designer	Planner/ Scientist	Planner/PI	Graphics/ CADD	Project Coordinator	TOTAL
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
6.10	Environmental Justice									
	Data Collection and Field Work					24				24
	Analysis and Draft Report		4			88		8		100
	Final Report & WSDOT Revisions		2			48				50
	<i>SubTotal</i>	0	6	0	0	160	0	8	0	174
6.11	Visual Quality Technical Memorandum									
	Data Collection and Field Work					40				40
	Draft Visual Quality Memorandum					80				80
	Final Visual Quality Memorandum					40				40
	<i>SubTotal</i>	0	0	0	0	160	0	0	0	160
6.12	Water Quality/Stormwater Technical Memorandum									
	Analysis and Modeling		4	48	16			16		84
	Draft Water Quality/Stormwater Memorandum		12	24	8					44
	Final Water Quality/Stormwater Memorandum		4	12	4			8		28
	<i>SubTotal</i>	0	20	84	28	0	0	24	0	156
6.13	NEPA Documentation and Approval									
	Draft DCE		4			114				118
	Final DCE & WSDOT Coordination		8			48				56
	<i>SubTotal</i>	0	12	0	0	162	0	0	0	174
6.14	SEPA Documentation and Approval									
	SEPA Checklist Review and Support		2			120				122
	Draft Determination of Non-Significance (DNS)		2			16				18
	Final DNS & Response to Comments		2			14				16
	<i>SubTotal</i>	0	6	0	0	150	0	0	0	156
	<b>TASK HOURS</b>	<b>0</b>	<b>137</b>	<b>84</b>	<b>28</b>	<b>1596</b>	<b>0</b>	<b>84</b>	<b>13</b>	<b>1942</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ 26,501</b>	<b>\$ 11,035</b>	<b>\$ 2,591</b>	<b>\$ 181,908</b>	<b>\$ -</b>	<b>\$ 8,456</b>	<b>\$ 1,309</b>	<b>\$ 231,800</b>
									<b>Rounded:</b>	<b>\$ 231,800</b>

BergerABAM Inc. Labor Estimate

BergerABAM Inc.										
		Principal	Project Manager	Project Engineer	Engineer/ Designer	Planner/ Scientist	Planner/PI	Graphics/ CADD	Project Coordinator	TOTAL
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
<b>7.0</b>	<b>TRAVEL DEMAND FORECASTING &amp; OPERATIONAL ANALYSIS</b>									
	Traffic Forecasting and Modeling for Alternatives Selection									
7.1	Background Document and Data Collection									0
7.2	Existing Transportation Conditions Analysis		4							4
7.3	Future Traffic Volume Forecasting For Alternatives Analysis		4							4
7.4	Future Alternatives Traffic Analysis		4							4
	<i>SubTotal</i>	0	12	0	0	0	0	0	0	12
	Traffic Forecasting and Modeling for IJR									
7.5	Refinement of Future Travel Demand Forecasting to Support IJR		4							4
7.6	Refined Future Traffic Conditions Analysis to Support IJR		4							4
	<i>SubTotal</i>	0	8	0	0	0	0	0	0	8
	<b>TASK HOURS</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ 3,869</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,869</b>
									<b>Rounded:</b>	<b>\$ 3,900</b>
<b>8.0</b>	<b>INTERCHANGE JUSTIFICATION REPORT</b>									
8.1	Interchange Justification Report									
	Draft No.1 of IJR		40	200	100			24	40	404
	Response to Draft No. 1 Comments		2	8	2					12
	Draft No. 2 of IJR		24	120	40			2	16	202
	Response to Draft No. 2 Comments		2	8	2					12
	Final of IJR		8	24	8			2	8	50
	<i>SubTotal</i>	0	76	360	152	0	0	28	64	680
	<b>TASK HOURS</b>	<b>0</b>	<b>76</b>	<b>360</b>	<b>152</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>64</b>	<b>680</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ 14,701</b>	<b>\$ 47,293</b>	<b>\$ 14,065</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,819</b>	<b>\$ 6,443</b>	<b>\$ 85,321</b>
									<b>Rounded:</b>	<b>\$ 85,300</b>

BergerABAM Inc. Labor Estimate

BergerABAM Inc.										
		Principal	Project Manager	Project Engineer	Engineer/ Designer	Planner/ Scientist	Planner/PI	Graphics/ CADD	Project Coordinator	TOTAL
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
<b>9.0</b>	<b>PRELIMINARY ENGINEERING</b>									
9.1	Hydraulics Report									
	Data Collection and Analysis		4	80	120					204
	Draft No. 1 of Hydraulics Report		16	120	360			24	24	544
	Response to Draft No.1 Comments		4	24	8					36
	Draft No. 2 of Hydraulics Report		8	80	80				8	176
	Response to Draft No. 2 Comments		2	12	4					18
	Final Hydraulics Report		8	60	40				4	112
	<i>SubTotal</i>	0	42	376	612	0	0	24	36	1090
9.2	Preliminary Plans									
1	Cover Sheet	0	2	4	4	0	0	4	0	14
1	Vicinity Map	0	2	4	4	0	0	4	0	14
5	Alignment and ROW	0	6	24	22	0	0	16	0	68
5	Roadway Sections	0	6	24	22	0	0	16	0	68
5	Site Preparation	0	6	24	22	0	0	16	0	68
5	Roadway Profiles	0	6	24	22	0	0	16	0	68
5	Drainage Plans	0	6	24	22	0	0	16	0	68
5	Drainage Profiles	0	6	24	22	0	0	16	0	68
1	Structure Plan & Elevation	0	2	4	4	0	0	4	0	14
6	Walls	0	6	28	26	0	0	20	0	80
5	Pavement Markings	0	6	24	22	0	0	16	0	68
5	Paving Plans	0	6	24	22	0	0	16	0	68
2	Miscellaneous	0	2	10	8	0	0	6	0	26
	<i>SubTotal</i>	0	62	242	222	0	0	166	0	692
9.1	Preliminary Cost Estimate		8	40	120					168
9.4	Channelization Plans for Approval									
	Draft No. 1 of Channelization Plans		40	100	240			80		460
	Draft No. 2 of Channelization Plans		8	40	80			40		168
	Draft N. 3 of Channelization Plans		8	40	40			20		108
	Final Channelization Plans		2	8	4			8		22
	<i>SubTotal</i>	0	58	188	364	0	0	148	0	758

BergerABAM Inc. Labor Estimate

BergerABAM Inc.			Project	Project	Engineer/	Planner/		Graphics/	Project	
		Principal	Manager	Engineer	Designer	Scientist	Planner/PI	CADD	Coordinator	TOTAL
<b>DESCRIPTION</b>		<b>\$ 247.02</b>	<b>\$ 193.44</b>	<b>\$ 131.37</b>	<b>\$ 92.53</b>	<b>\$ 113.98</b>	<b>\$ 105.43</b>	<b>\$ 100.66</b>	<b>\$ 90.30</b>	
9.5	Design Variance									
	Design Variance Inventory		1	4	8					13
	Draft No. 1 of Deviations and EUs (4 max)		8	60	12				8	88
	Draft No. 2 of Deviations and EUs (4 max)		8	24	12				4	48
	Draft No. 3 of Deviations and EUs (4 max)		4	12	4				4	24
	Final Deviations and EUs (4 max)		2	8	2				4	16
	<i>SubTotal</i>	0	23	108	38	0	0	0	20	189
9.6	Construction Phasing Plan									
	Component Estimate of Preferred Configurion		1	8	16					25
	Draft Phasing Plan (1 max)		8	24	8					40
	Final Phasing Plan (1 max)		4	8	2					14
	<i>SubTotal</i>	0	13	40	26	0	0	0	0	79
	<b>TASK HOURS</b>	<b>0</b>	<b>206</b>	<b>994</b>	<b>1382</b>	<b>0</b>	<b>0</b>	<b>338</b>	<b>56</b>	<b>2976</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ 39,848</b>	<b>\$ 130,582</b>	<b>\$ 127,882</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 34,025</b>	<b>\$ 5,637</b>	<b>\$ 337,975</b>
									<b>Rounded:</b>	<b>\$ 338,000</b>
<b>10.0</b>	<b>UTILITY COORDINATION</b>									
8.1	Utility Coordination									
	Utility Research			2						2
	Utility Kick-off Meeting			2						2
	Utility Coordination Meeting			2						2
	Draft Utility Conflict Memorandum			8						8
	Final Utility Conflict Memorandum			2						2
	<i>SubTotal</i>	0	0	16	0	0	0	0	0	16
	<b>TASK HOURS</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,102</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,102</b>
									<b>Rounded:</b>	<b>\$ 2,100</b>
	<b>TOTAL PROJECT HOURS</b>	<b>139</b>	<b>2,046</b>	<b>2,948</b>	<b>2,947</b>	<b>1,596</b>	<b>545</b>	<b>690</b>	<b>386</b>	<b>11,297</b>

EXHIBIT C: Subcontract Work/Fee Determination

**Sub-Consultant Analysis of Costs - AINW**

Direct Salary Cost (DSC)

<b>PERSONNEL</b>	Hours	Pay Rate	Cost
PI/PM Senior Archaeologist	36	\$ 52.65	\$ 1,895
Sen. Archtitl. Hist./Sen. Archaeo./ Sen. Hist	28	39.50	1,106
Supr Archeologist/Arch Historian	148	29.24	4,328
Staff Archaeologist	48	22.70	1,090
Archaeological Assistant	32	17.00	544
Graphics/GIS	15	30.50	458
Research/Project Assist-Admin.	16	28.75	460

Direct Salary Cost Total	323	-	\$ 9,881
Salary Escalation (see escalation tab)			\$ -

<u>Overhead Cost</u>	<u>163.39%</u>	of DSC	\$ 16,144
<u>Net Fee</u>	<u>30.00%</u>	of DSC	2,964

**SUBTOTAL \$ 28,988**

**REIMBURSABLES**

Travel/Parking		\$	365
Reproduction/Postage			-
Computer/Special Equipment			-
Miscellaneous			-

**SUBTOTAL \$ 365**

<b>TOTAL \$ 29,353</b>
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EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

AINW

Reimbursables

	Units	at	Cost		
<b>Travel/Parking</b>					
Miles Field RT (recon + 2 historic res survey)	150	\$	0.565	\$	84.75
AINW Archaeo Truck for 4 days @ \$58/day + f	4	\$	70.00	\$	280.00
<b>Travel Subtotal</b>					<b>\$364.75</b>

**Reproduction/Postage**

<b>Reproduction Subtotal</b>				\$	-
					<b>\$0.00</b>

**Computer/Special Equipment**

Computer Time					
				\$	-
				\$	-
<b>Computer Subtotal</b>				\$	-

**Miscellaneous**

	1	\$	-	\$	-
				\$	-
<b>Miscellaneous Subtotal</b>				\$	-

<b>Total</b>					<b>\$364.75</b>

BergerABAM, Inc. Labor Estimate

	AINW								
		PI/PM Senior	Sen. Architl.	Supr Archeologis	Staff Archaeologis	Archaeologic	Graphics/GI	Research/P	TOTAL
DESCRIPTION		\$ 154.47	\$ 115.89	\$ 85.80	\$ 66.60	\$ 49.88	\$ 89.48	\$ 84.35	
<b>6.0 ENVIRONMENTAL REVIEW AND DOCUMENTATION</b>									
6.1 Project Purpose and Need									
Draft Purpose and Need									0
Final Purpose and Need									0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.2 Environmental Methods and Assumptions Memorandum									
Team Coordination Meetings (5 max)									0
Agency Coordination Meetings (4 max)									0
Draft Envrn Methods and Assumptions Memo									0
Final Envrn Methods and Assumptions Memo									0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.3 Corridor-Level Environmental Site Assessment (ESA)									
Data Collection and Field Work									0
Draft Corridor Level ESA Letter Report									0
Final Corridor Level ESA Letter Report									0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.4 Cultural and Historic Resouces Study									
Draft APE Submittal		12	4				2		18
Final APE Submittal		0							0
Draft Cultural Resources Report		20	24	148	48	32	11	12	295
Final Cultural Resources Report		4					2	4	10
	<i>SubTotal</i>	36	28	148	48	32	15	16	323
6.5 Wetlands and Critical Areas Study									
Data Collection and/or Field Work									0
Draft Memo									0
Final Memo									0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0

BergerABAM, Inc. Labor Estimate

	AINW								
		PI/PM Senior	Sen. Architl.	Supr Archeologis	Staff Archaeologis	Archaeologic	Graphics/GI	Research/P	TOTAL
DESCRIPTION		\$ 154.47	\$ 115.89	\$ 85.80	\$ 66.60	\$ 49.88	\$ 89.48	\$ 84.35	
6.6	Air Quality Analysis								
	Traffic Data Review								0
	Analysis								0
	Draft Air Quality Analysis Report								0
	Final Air Quality Analysis Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.7	Noise Analysis								
	Sound Level Measurements								0
	Construction Noise Impact Evaluation								0
	Traffic Noise Impact Evaluation								0
	Mitigation Analysis								0
	Draft Traffic Noise Report								0
	Final Traffic Noise Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.8	ESA Compliance and Assessment								
	Analysis and Draft Report								0
	Final Report								0
	WSDOT Review								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.9	Social, Economic and Land Use Impacts Study								
	Data Collection & Analysis, Coordination								0
	Report Preparation								0
	Final Report (Revisions from City, WSDOT, FHWA)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.10	Environmental Justice								
	Data Collection and Field Work								0
	Analysis and Draft Report								0
	Final Report & WSDOT Revisions								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0

BergerABAM, Inc. Labor Estimate

	AINW								
		PI/PM Senior	Sen. Architl.	Supr Archeologis	Staff Archaeologis	Archaeologic	Graphics/GI	Research/P	TOTAL
DESCRIPTION		\$ 154.47	\$ 115.89	\$ 85.80	\$ 66.60	\$ 49.88	\$ 89.48	\$ 84.35	
6.11	Visual Quality Technical Memorandum								
	Data Collection and Field Work								0
	Draft Visual Quality Memorandum								0
	Final Visual Quality Memorandum								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.12	Water Quality/Stormwater Technical Memorandum								
	Analysis and Modeling								0
	Draft Water Quality/Stormwater Memorandum								0
	Final Water Quality/Stormwater Memorandum								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.13	NEPA Documentation and Approval								
	Draft DCE								0
	Final DCE & WSDOT Review								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.14	SEPA Documentation and Approval								
	SEPA Checklist Review and Support								0
	Draft Determination of Non-Significance (DNS)								0
	Final DNS & Response to Comments								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>36</b>	<b>28</b>	<b>148</b>	<b>48</b>	<b>32</b>	<b>15</b>	<b>16</b>	<b>323</b>
	<b>Cost Subtotals=</b>	<b>\$ 5,561</b>	<b>\$ 3,245</b>	<b>\$ 12,698</b>	<b>\$ 3,197</b>	<b>\$ 1,596</b>	<b>\$ 1,342</b>	<b>\$ 1,350</b>	<b>\$ 28,988</b>
								<b>Rounded:</b>	<b>\$ 29,000</b>
	<b>TOTAL PROJECT HOURS</b>	<b>36</b>	<b>28</b>	<b>148</b>	<b>48</b>	<b>32</b>	<b>15</b>	<b>16</b>	<b>323</b>

EXHIBIT C: Subcontract Work/Fee Determination

**Sub-Consultant Analysis of Costs - DKS Associates**

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
Traffic Engr Task Leader	160	\$61.85	\$ 9,896
Senior Transp Engineer	211	\$41.50	8,757
Transp Engineer	598	\$31.60	18,897
VISSIM Modeling Specialist	450	\$34.00	15,300
Transp Engr Assistant	886	\$23.75	21,043
Support/Graphics	69	\$27.00	1,863
	0		-

Direct Salary Cost Total	2374	-	\$ 75,755
Salary Escalation (see escalation tab)			\$ 2,272.64

<u>Overhead Cost</u>	<u>191.11%</u>	of DSC	\$ 149,118
<u>Net Fee</u>	<u>30.00%</u>	of DSC	23,408

**SUBTOTAL** \$ 250,554

Reimbursables

Travel/Parking	\$ 1,300
Reproduction/Postage	100
Computer/Special Equipment	-
Miscellaneous	2,000

**SUBTOTAL** \$ 3,400

**TOTAL** \$ 253,954

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

**DKS Associates**

**Reimbursables**

	Units	at	Cost		
<b>Travel/Parking</b>					
Miles	0	\$	0.565	\$	-
Zipcar	26	\$	50.00	\$	1,300.00
					<b>Travel Subtotal</b>
					<b>\$1,300.00</b>
<b>Reproduction/Postage</b>					
Reproduction	100	\$	1.00	\$	100.00
				\$	-
				\$	-
					<b>Reproduction Subtotal</b>
					<b>\$100.00</b>
<b>Computer/Special Equipment</b>					
				\$	-
				\$	-
				\$	-
					<b>Computer Subtotal</b>
					<b>\$-</b>
<b>Miscellaneous</b>					
Traffic Counts	10	\$	200.00	\$	2,000.00
				\$	-
				\$	-
					<b>Miscellaneous Subtotal</b>
					<b>\$2,000.00</b>

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
DESCRIPTION		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
<b>2.0</b>	<b>PUBLIC INVOLVEMENT</b>								
2.1	Public Involvement Plan								
	Population Maps								0
	Property and Business Ownership Aerial Map								0
	Draft PIP								0
	Final PIP								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
2.2	Stakeholder Interview								
	Interview Planning Mtg with City								0
	Interview Questions								0
	Stakeholder Interviews (25 max)								0
	Draft Stakeholder Findings Summary Report								0
	Final Stakeholder Findings Summary Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
2.3	Newsletters & Posters								
	Original Newsletter								0
	Newsletter Updates (3 max)								0
	Poster								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
2.4	Project Website								
	Original Website								0
	On-Going Maintenance								0
	Substantive Updates (5 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
2.5	Open House								
	Preplanning Preparation and Meeting	2		4					6
	Graphics and Boards								0
	Meeting Materials (Sign-in sheets, etc.)								0
	Meeting Notes								0
	Open House Attendance	3							3
	Open House Summary Document								0

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
<b>DESCRIPTION</b>		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
	<i>SubTotal</i>	5	0	4	0	0	0	0	9
2.6	Small Group Meetings								
	Small Group Meetings								0
	Meeting Notes								0
	Meeting Materials								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	5	0	4	0	0	0	0	9
	<b>Cost Subtotals=</b>	\$ 1,023	\$ -	\$ 418	\$ -	\$ -	\$ -	\$ -	\$ 1,441
								<b>Rounded:</b>	\$ 1,400
<b>3.0</b>	<b>CONSENSUS BUILDING</b>								
3.1	Chartering Meeting								
	Meeting Agenda and Preparation								0
	Meeting Attendance	3							3
	Team Chartering Tech Memorandum								0
	<i>SubTotal</i>	3	0	0	0	0	0	0	3
3.2	TAC Support								
	Meeting Agendas and Presentations (12 max)								0
	Meeting Attendance (12 max)	12	12						24
	Meeting Notes (12 max)								0
	<i>SubTotal</i>	12	12	0	0	0	0	0	24
3.3	TAC Recommendation on the Proposed Configuration								
	Draft TAC Recommendation Letter								0
	Final TAC Recommendation Letter								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
3.4	Executive Committee Support								
	Meeting Agendas and Presentations (4 max)								0
	Meeting Attendance (4 max)								0
	Meeting Notes (4 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
<b>DESCRIPTION</b>		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
3.5	Project Advisory Group Support								
	Meeting Agendas and Presentations (6 max)								0
	Meeting Attendance (6 max)	12							12
	Meeting Notes (6 max)								0
	<i>SubTotal</i>	12	0	0	0	0	0	0	12
	<b>TASK HOURS</b>	27	12	0	0	0	0	0	39
	<b>Cost Subtotals=</b>	\$ 5,523	\$ 1,647	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,170
									\$ 7,200
<b>4.0</b>	<b>BASE MAPPING</b>								
4.1	Survey and Base Map								
	Prepare topographic base map from existing GIS data								0
	Map of existing utilities via GIS and field observations								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	0	0	0	0	0	0	0	0
	<b>Cost Subtotals=</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
									\$ -
<b>5.0</b>	<b>CONFIGURATION SELECTION</b>								
5.1	Develop Screening Process for Alternatives and Matrix								
	Draft Screening Criteria	4	4						8
	Final Screening Criteria	1	1						2
	Screening/Decision Matrix	4	8						12
	<i>SubTotal</i>	9	13	0	0	0	0	0	22
5.2	Alternatives Evaluated								
5.2.1	Identification of Alternatives and Brainstorming Session	8	8						16
	Prepare Build Alternatives Development Session Materials								0
	Conduct Build Alternatives Development Meeting	4							4
	Summary of Build Alternatives Development Meeting								0
5.2.2	Limited Construction Alternatives Analysis								0
5.2.3	Prepare No-Action Alternative								0
	<i>SubTotal</i>	12	8	0	0	0	0	0	20

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
DESCRIPTION		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
5.3	Geotechnical Reconnaissance Memo								
	Draft Geotechnical Reconnaissance Memo								0
	Final Geotechnical Reconnaissance Memo								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.4	Alternatives Screening								
	Level 1 Screening Technical Memorandum	4	8						12
	Level 2 Screening Technical Memorandum	4	8						12
	Draft TAC Recommendation Letter								0
	Final TAC Recommendation Letter								0
	Council Briefings Presentations Preparation								0
	Council Briefings Attendance (4 max)								0
	<i>SubTotal</i>	8	16	0	0	0	0	0	24
5.5	Value Engineering Study								
	Value Analysis Review								0
	Recommended Alternatives Report								0
	Value Engineering Workshop		8						8
	Value Engineering Report								0
	Evaluation and Recommendation VE Memo								0
	<i>SubTotal</i>	0	8	0	0	0	0	0	8
5.6	Alternatives Summary Report								
	Draft Alternatives Summary Report								0
	Final Alternatives Summary Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>29</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>74</b>
	<b>Cost Subtotals=</b>	<b>\$ 5,932</b>	<b>\$ 6,177</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,109</b>
								<b>Rounded:</b>	<b>\$ 12,100</b>
<b>6.0</b>	<b>ENVIRONMENTAL REVIEW AND DOCUMENTATION</b>								
6.1	Project Purpose and Need								
	Draft Purpose and Need	4	2						6
	Final Purpose and Need								0
	<i>SubTotal</i>	4	2	0	0	0	0	0	6

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
DESCRIPTION		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
6.2	Environmental Methods and Assumptions Memorandum								
	Team Coordination Meetings (5 max)								0
	Agency Coordination Meetings (4 max)								0
	Draft Envrn Methods and Assumptions Memo								0
	Final Envrn Methods and Assumptions Memo								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.3	Corridor-Level Environmental Site Assessment (ESA)								
	Data Collection and Field Work								0
	Draft Corridor Level ESA Letter Report								0
	Final Corridor Level ESA Letter Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.4	Cultural and Historic Resouces Study								
	Draft APE Submittal								0
	Final APE Submittal								0
	Draft Cultural Resources Report								0
	Final Cultural Resources Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.5	Wetlands and Critical Areas Study								
	Data Collection and/or Field Work								0
	Draft Memo								0
	Final Memo								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.6	Air Quality Analysis								
	Traffic Data Review		2	8		4			14
	Analysis								0
	Draft Air Quality Analysis Report								0
	Final Air Quality Analysis Report								0
	<i>SubTotal</i>	0	2	8	0	4	0	0	14
6.7	Noise Analysis								
	Sound Level Measurements								0

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
DESCRIPTION		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
	Construction Noise Impact Evaluation								0
	Traffic Noise Impact Evaluation		2	8		4			14
	Mitigation Analysis								0
	Draft Traffic Noise Report								0
	Final Traffic Noise Report								0
	<i>SubTotal</i>	0	2	8	0	4	0	0	14
6.8	ESA Compliance and Assessment								
	Analysis and Draft Report								0
	Final Report								0
	WSDOT Review								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.9	Social, Economic and Land Use Impacts Study								
	Data Collection & Analysis, Coordination								0
	Report Preparation								0
	Final Report (Revisions from City, WSDOT, FHWA)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.10	Environmental Justice								
	Data Collection and Field Work								0
	Analysis and Draft Report								0
	Final Report & WSDOT Revisions								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.11	Visual Quality Technical Memorandum								
	Data Collection and Field Work								0
	Draft Visual Quality Memorandum								0
	Final Visual Quality Memorandum								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.12	Water Quality/Stormwater Technical Memorandum								
	Analysis and Modeling								0
	Draft Water Quality/Stormwater Memorandum								0
	Final Water Quality/Stormwater Memorandum								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
DESCRIPTION		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
6.13	NEPA Documentation and Approval								
	Draft DCE								0
	Final DCE & WSDOT Review								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.14	SEPA Documentation and Approval								0
	SEPA Checklist Review and Support								0
	Draft Determination of Non-Significance (DNS)								0
	Final DNS & Response to Comments								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	4	6	16	0	8	0	0	34
	<b>Cost Subtotals=</b>	\$ 818	\$ 824	\$ 1,672	\$ -	\$ 628	\$ -	\$ -	\$ 3,942
								<b>Rounded:</b>	\$ 3,900
<b>7.0</b>	<b>TRAVEL DEMAND FORECASTING &amp; OPERATIONAL ANALYSIS</b>								
	Traffic Forecasting and Modeling for Alternatives Selection								
7.1	Background Document and Data Collection	10	16	59	0	42	5	0	132
7.2	Existing Transportation Conditions Analysis	6	14	43	0	76	18	0	157
7.3	Future Traffic Volume Forecasting For Alternatives Analysis	6	14	51	0	52	10	0	133
7.4	Future Alternatives Traffic Analysis	24	32	159	0	156	18	0	389
	<i>SubTotal</i>	46	76	312	0	326	51	0	811
	Traffic Forecasting and Modeling for IJR								
7.5	Refinement of Future Travel Demand Forecasting to Support IJR	8	20	107	0	132	8	0	275
7.6	Refined Future Traffic Conditions Analysis to Support IJR	33	36	115	450	380	0	0	1014
	<i>SubTotal</i>	41	56	222	450	512	8	0	1289
	<b>TASK HOURS</b>	87	132	534	450	838	59	0	2100
	<b>Cost Subtotals=</b>	\$ 17,797	\$ 18,118	\$ 55,811	\$ 50,604	\$ 65,826	\$ 5,269	\$ -	\$ 213,425
								<b>Rounded:</b>	\$ 213,400

BergerABAM Inc. Labor Estimate

DKS Associates, Inc.		Traffic Engr Task Leader	Senior Transp	Transp Engineer	VISSIM Modeling	Transp Engr Assistant	Support/Gr	\$ -	TOTAL
DESCRIPTION		\$ 204.56	\$ 137.26	\$ 104.51	\$ 112.45	\$ 78.55	\$ 89.30	\$ -	
<b>8.0</b>	<b>INTERCHANGE JUSTIFICATION REPORT</b>								
8.1	Interchange Justification Report								
	Draft #1 of IJR	6	12	32		32	8		90
	Response to Draft #1 Comments								0
	Draft #2 of IJR	2	4	12		8	2		28
	Response to Draft #2 Comments								0
	Final of IJR								0
	<i>SubTotal</i>	8	16	44	0	40	10	0	118
	<b>TASK HOURS</b>	<b>8</b>	<b>16</b>	<b>44</b>	<b>0</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>118</b>
	<b>Cost Subtotals=</b>	<b>\$ 1,637</b>	<b>\$ 2,196</b>	<b>\$ 4,599</b>	<b>\$ -</b>	<b>\$ 3,142</b>	<b>\$ 893</b>	<b>\$ -</b>	<b>\$ 12,466</b>
							<b>Rounded:</b>		<b>\$ 12,500</b>
	<b>TOTAL PROJECT HOURS</b>	160	211	598	450	886	69	-	2,374

EXHIBIT C: Subcontract Work/Fee Determination

**Sub-Consultant Analysis of Costs - ENVIRON**

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
Principal (Steffel)	58	\$ 69.71	\$ 4,043
Manager 8 (Kevin)	218	\$ 38.94	8,489
Manager 8 (Lisa)	50	\$ 36.06	1,803
Assoc 6b (Kurt)	136	\$ 31.25	4,250
Admin (Cynthia)	44	\$ 27.88	1,227
	0		-
	0		-
<hr/>			
Direct Salary Cost Total	506		\$ 19,812
Salary Escalation (see escalation tab)			\$ 99.06

<u>Overhead Cost</u>	<u>159.85%</u>	of DSC	\$ 31,828
<u>Net Fee</u>	<u>30.00%</u>	of DSC	<u>5,973</u>

**SUBTOTAL** \$ 57,712

Reimbursables

Travel/Parking	\$ 418
Reproduction/Postage	100
Computer/Special Equipment	150
Miscellaneous	<u>735</u>

**SUBTOTAL** \$ 1,403

**TOTAL** \$ 59,115

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

**ENVIRON**

**Reimbursables**

	Units	at	Cost	
<b>Travel/Parking</b>				
Miles	740	\$	0.565	\$ 418.10
Parking		\$	10.00	-
<b>Travel Subtotal</b>				<b>\$418.10</b>
 <b>Reproduction/Postage</b>				
Copies, B&W - 8.5 x 11		\$	0.10	-
Copies, B&W - 11 x 17		\$	0.20	-
Copies, color	50	\$	2.00	100.00
<b>Reproduction Subtotal</b>				<b>\$100.00</b>
 <b>Computer/Special Equipment</b>				
Computer Time (TNM Modeling)	1	\$	150.00	150.00
				-
<b>Computer Subtotal</b>				<b>\$ 150.00</b>
 <b>Miscellaneous</b>				
Sound Level Meters 3 LD 820 at 2 days each	3	\$	100.00	300.00
SLM Environmental Enclosures	3	\$	15.00	45.00
Accomodations (hotel), 2 nights	2	\$	120.00	240.00
Meals, per diem	3	\$	50.00	150.00
<b>Miscellaneous Subtotal</b>				<b>\$735.00</b>

BergerABAM Inc. Labor Estimate

ENVIRON		Principal (Steffel)	Manager 8 (Kevin)	Manager 8 (Lisa)	Assoc 6b (Kurt)	Admin (Cynthia)	\$ -	\$ -	TOTAL
<b>DESCRIPTION</b>		<b>\$ 203.06</b>	<b>\$ 113.43</b>	<b>\$ 105.04</b>	<b>\$ 91.03</b>	<b>\$ 81.21</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>1.0</b>	<b>PROJECT MANAGEMENT</b>								
1.1	Implement QC Program								0
1.2	Monthly Progress Reports and Billing								
	Monthly Progress Reports								0
	Monthly Invoicing								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
1.3	Biweekly Progress Meetings								
	Meeting Agendas (26 max)								0
	Meeting Attendance (26 max)	4	12						16
	Meeting Notes (26 max)								0
	<i>SubTotal</i>	4	12	0	0	0	0	0	16
1.4	Project Administration								
	Project Administration								0
	Internal City Memos (12 Max)								
	Council Briefings (4 Max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
1.5	Project Schedule								
	Prepare Project Schedule								0
	Ongoing Schedule Tracking and Maintenance								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>4</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>
	<b>Cost Subtotals=</b>	<b>\$ 812</b>	<b>\$ 1,361</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,173.44</b>
								<b>Rounded:</b>	<b>\$ 2,200</b>



BergerABAM Inc. Labor Estimate

ENVIRON		Principal (Steffel)	Manager 8 (Kevin)	Manager 8 (Lisa)	Assoc 6b (Kurt)	Admin (Cynthia)	\$ -	\$ -	TOTAL
DESCRIPTION		\$ 203.06	\$ 113.43	\$ 105.04	\$ 91.03	\$ 81.21	\$ -	\$ -	
6.6	Air Quality Analysis								
	Traffic Data Review	10	16	2	12	20			60
	Analysis	2	20	40	40				102
	Draft Air Quality Analysis Report	8	4	8	40	8			68
	Final Air Quality Analysis Report	8			16	4			28
	<i>SubTotal</i>	28	40	50	108	32	0	0	258
6.7	Noise Analysis								
	Sound Level Measurements		32						32
	Construction Noise Impact Evaluation		8						8
	Traffic Noise Impact Evaluation		40		16				56
	Mitigation Analysis		16						16
	Draft Traffic Noise Report	8	48		12	8			76
	Final Traffic Noise Report	4	8			4			16
	<i>SubTotal</i>	12	152	0	28	12	0	0	204
6.8	ESA Compliance and Assessment								
	Analysis and Draft Report								0
	Final Report								0
	WSDOT Review								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.9	Social, Economic and Land Use Impacts Study								
	Data Collection & Analysis, Coordination								0
	Report Preparation								0
	Final Report (Revisions from City, WSDOT, FHWA)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.10	Environmental Justice								
	Data Collection and Field Work								0
	Analysis and Draft Report								0
	Final Report & WSDOT Revisions								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0

BergerABAM Inc. Labor Estimate

ENVIRON									
		Principal (Steffel)	Manager 8 (Kevin)	Manager 8 (Lisa)	Assoc 6b (Kurt)	Admin (Cynthia)	\$ -	\$ -	TOTAL
DESCRIPTION		\$ 203.06	\$ 113.43	\$ 105.04	\$ 91.03	\$ 81.21	\$ -	\$ -	
6.11	Visual Quality Technical Memorandum								
	Data Collection and Field Work								0
	Draft Visual Quality Memorandum								0
	Final Visual Quality Memorandum								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.12	Water Quality/Stormwater Technical Memorandum								
	Analysis and Modeling								0
	Draft Water Quality/Stormwater Memorandum								0
	Final Water Quality/Stormwater Memorandum								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
6.13	NEPA Documentation and Approval								
	Draft DCE	2	2						4
	Final DCE & WSDOT Review	2	2						4
	<i>SubTotal</i>	4	4	0	0	0	0	0	8
6.14	SEPA Documentation and Approval								0
	SEPA Checklist Review and Support	2	2						4
	Draft Determination of Non-Significance (DNS)								0
	Final DNS & Response to Comments	8	8						16
	<i>SubTotal</i>	10	10	0	0	0	0	0	20
	<b>TASK HOURS</b>	<b>54</b>	<b>206</b>	<b>50</b>	<b>136</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>490</b>
	<b>Cost Subtotals=</b>	<b>\$ 10,965</b>	<b>\$ 23,367</b>	<b>\$ 5,252</b>	<b>\$ 12,380</b>	<b>\$ 3,573</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 55,538</b>
								<b>Rounded:</b>	<b>\$ 55,500</b>
	<b>TOTAL PROJECT HOURS</b>	<b>58</b>	<b>218</b>	<b>50</b>	<b>136</b>	<b>44</b>	<b>-</b>	<b>-</b>	<b>506</b>

EXHIBIT C: Subcontract Work/Fee Determination

Sub-Consultant Analysis of Costs - HartCrowser, Inc.

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
Senior Principal	8	\$ 88.23	\$ 706
Senior Associate	44	\$ 59.62	\$ 2,623
Senior Project / Project	8	\$ 39.97	320
Senior Staff	46	\$ 30.17	1,388
Staff	0	\$ 26.46	-
Drafter	11	\$ 26.47	291
Project Assistant	11	\$ 23.58	259

Direct Salary Cost Total	128	-	\$ 5,587
Salary Escalation (see escalation tab)			\$ -

<u>Overhead Cost</u>	205.21%	of DSC	\$ 11,466
<u>Net Fee</u>	30.00%	of DSC	\$ 1,676

**SUBTOTAL** \$ 18,729

Reimbursables

Travel/Parking	\$ 127
Reproduction/Postage	45
Computer/Special Equipment	-
Miscellaneous	-

**SUBTOTAL** \$ 172

**TOTAL** \$ 18,901

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

HartCrowser, Inc.

Reimbursables

	Units	at	Cost	
<b>Travel/Parking</b>				
Miles	225	\$	0.565	\$ 127.13
Parking		\$	15.00	-
<b>Travel Subtotal</b>				<b>\$127.13</b>
 <b>Reproduction/Postage</b>				
Report Reproduction	5	\$	8.00	\$ 40.00
Shipping Report	1	\$	5.00	\$ 5.00
			\$	-
<b>Reproduction Subtotal</b>				<b>\$45.00</b>
 <b>Computer/Special Equipment</b>				
Computer Time			\$	-
			\$	-
<b>Computer Subtotal</b>			<b>\$</b>	<b>-</b>
 <b>Miscellaneous</b>				
			\$	-
			\$	-
			\$	-
			\$	-
<b>Miscellaneous Subtotal</b>				<b>\$0.00</b>

BergerABAM Inc. Labor Estimate

HartCrowser		Senior Principal	Senior Associate	Senior Project /	Senior Staff	Staff	Drafter	Project Assistant	TOTAL
DESCRIPTION		\$ 295.76	\$ 199.85	\$ 133.98	\$ 101.13	\$ 88.70	\$ 88.73	\$ 79.04	
<b>5.0</b>	<b>CONFIGURATION SELECTION</b>								
5.1	Develop Screening Process for Alternatives and Matrix								
	Draft Screening Criteria								0
	Final Screening Criteria								0
	Screening/Decision Matrix								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.2	Alternatives Evaluated								
5.2.1	Identification of Alternatives and Brainstorming Session								
	Prepare Build Alternatives Development Session Materials								0
	Conduct Build Alternatives Development Meeting								0
	Summary of Build Alternatives Development Meeting								0
5.2.2	Limited Construction Alternatives Analysis								0
5.2.3	Prepare No-Action Alternative								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.3	Geotechnical Reconnaissance Memo								
	Draft Geotechnical Reconnaissance Memo	5	30	8	40		8	7	98
	Final Geotechnical Reconnaissance Memo	3	6		6		3	4	22
	<i>SubTotal</i>	8	36	8	46	0	11	11	120
5.4	Alternatives Screening								
	Level 1 Screening Technical Memorandum								0
	Level 2 Screening Technical Memorandum								0
	Draft TAC Recommendation Letter								0
	Final TAC Recommendation Letter								0
	Council Briefings Presentations Preparation								0
	Council Briefings Attendance (4 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.5	Value Engineering Study								
	Value Analysis Review								0
	Recommended Alternatives Report								0
	Value Engineering Workshop								0
	Value Engineering Report								0
	Evaluation and Recommendation VE Memo								0

BergerABAM Inc. Labor Estimate

HartCrowser		Senior Principal	Senior Associate	Senior Project /	Senior Staff	Staff	Drafter	Project Assistant	TOTAL
<b>DESCRIPTION</b>		<b>\$ 295.76</b>	<b>\$ 199.85</b>	<b>\$ 133.98</b>	<b>\$ 101.13</b>	<b>\$ 88.70</b>	<b>\$ 88.73</b>	<b>\$ 79.04</b>	
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.6	Alternatives Summary Report								
	Draft Alternatives Summary Report								0
	Final Alternatives Summary Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>8</b>	<b>36</b>	<b>8</b>	<b>46</b>	<b>0</b>	<b>11</b>	<b>11</b>	<b>120</b>
	<b>Cost Subtotals=</b>	<b>\$ 2,366</b>	<b>\$ 7,195</b>	<b>\$ 1,072</b>	<b>\$ 4,652</b>	<b>\$ -</b>	<b>\$ 976</b>	<b>\$ 869</b>	<b>\$ 17,130</b>
								<b>Rounded:</b>	<b>\$ 17,100</b>
	<b>TOTAL PROJECT HOURS</b>	<b>8</b>	<b>44</b>	<b>8</b>	<b>46</b>	<b>-</b>	<b>11</b>	<b>11</b>	<b>128</b>

EXHIBIT C: Subcontract Work/Fee Determination

Sub-Consultant Analysis of Costs - OTAK

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
CE V	12	\$ 39.66	\$ 476
CE II	42	\$ 30.15	1,266
ED I	28	\$ 23.08	646
Senior PLS	20	\$ 33.25	665
GIS Tech.	80	\$ 25.50	2,040
Survey Tech.	80	\$ 25.50	2,040
Field Survey Tech.	40	\$ 25.50	1,020

Direct Salary Cost Total	302	-	\$ 8,153
Salary Escalation (see escalation tab)			\$ -

<u>Overhead Cost</u>	175.00%	of DSC	\$ 14,269
<u>Net Fee</u>	30.00%	of DSC	2,446

**SUBTOTAL \$ 24,868**

Reimbursables

Travel/Parking	\$ 283
Reproduction/Postage	-
Computer/Special Equipment	-
Miscellaneous	-

**SUBTOTAL \$ 283**

**TOTAL \$ 25,151**

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

**OTAK**

**Reimbursables**

	Units	at	Cost		
<b>Travel/Parking</b>					
Miles	500	\$	0.565	\$	282.50
Parking				\$	-
					<b>Travel Subtotal</b>
					<b>\$282.50</b>
<b>Reproduction/Postage</b>					
				\$	-
				\$	-
				\$	-
					<b>Reproduction Subtotal</b>
					<b>\$0.00</b>
<b>Computer/Special Equipment</b>					
Noise Monitor		\$	500.00	\$	-
				\$	-
				\$	-
					<b>Computer Subtotal</b>
					<b>\$0.00</b>
<b>Miscellaneous</b>					
Cultural Resources Report		\$	3,500.00	\$	-
				\$	-
				\$	-
					<b>Miscellaneous Subtotal</b>
					<b>\$0.00</b>

BergerABAM Inc. Labor Estimate

OTAK									
		CE V	CE II	ED I	Senior PLS	GIS Tech.	Survey Tech.	Field Survey	TOTAL
DESCRIPTION		\$ 120.96	\$ 91.96	\$ 70.39	\$ 101.41	\$ 77.78	\$ 77.78	\$ 77.78	
<b>4.0</b>	<b>BASE MAPPING</b>								
4.1	Survey and Base Map								
	Prepare topographic base map from existing GIS data				10	40	40		90
	Map of existing utilities via GIS and field observations				10	40	40	40	130
	SubTotal	0	0	0	20	80	80	40	220
	<b>TASK HOURS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>80</b>	<b>80</b>	<b>40</b>	<b>220</b>
	<b>Cost Subtotals=</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,028</b>	<b>\$ 6,222</b>	<b>\$ 6,222</b>	<b>\$ 3,111</b>	<b>\$ 17,583</b>
									<b>\$ 17,600</b>
<b>10.0</b>	<b>UTILITY COORDINATION</b>								
8.1	Utility Coordination								
	Utility Research		4	8					12
	Utility Kick-off Meeting	2	2	2					6
	Utility Coordination Meeting	2	4	2					8
	Draft Utility Conflict Memorandum	4	16	8					28
	Final Utility Conflict Memorandum	4	16	8					28
	SubTotal	12	42	28	0	0	0	0	82
	<b>TASK HOURS</b>	<b>12</b>	<b>42</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>82</b>
	<b>Cost Subtotals=</b>	<b>\$ 1,452</b>	<b>\$ 3,862</b>	<b>\$ 1,971</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,285</b>
								<b>Rounded:</b>	<b>\$ 7,300</b>
	<b>TOTAL PROJECT HOURS</b>	<b>12</b>	<b>42</b>	<b>28</b>	<b>20</b>	<b>80</b>	<b>80</b>	<b>40</b>	<b>220</b>

EXHIBIT C: Subcontract Work/Fee Determination

Sub-Consultant Analysis of Costs - Sazan

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
Certified Value Specialist/Facilitator (CVS)	154	\$ 56.25	\$ 8,663
VE Assistant/Technical Editor	98	19.43	1,904
	0		-
	0		-
	0		-
	0		-
	0		-
	0		-
			-
Direct Salary Cost Total	252	-	\$ 10,567
Salary Escalation (see escalation tab)			\$ -
<u>Overhead Cost</u>	175.00%	of DSC	\$ 18,492
<u>Net Fee</u>	30.00%	of DSC	3,170
		<b>SUBTOTAL</b>	\$ 32,228
<u>Reimbursables</u>			
Travel/Parking		\$	3,426
Reproduction/Postage			75
Computer/Special Equipment			-
Miscellaneous			150
		<b>SUBTOTAL</b>	\$ 3,651
		<b>TOTAL</b>	\$ 35,879

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

**Sub-Consultant Analysis of Costs - Sazan**

**Reimbursables**

	Units	at	Cost	
<b>Travel/Parking</b>				
Miles - assume two RT to Seattle - Vancouver at 175mi.	700	\$	0.565	\$ 395.50
Parking - 2 phases at 5 days	10	\$	12.000	\$ 120.00
Per diem meals - 2 phases at 5 days for two	20	\$	35.000	\$ 700.00
Per diem lodging - 2 phases at 4 nights for two	16	\$	138.13	\$ 2,210.00
<b>Travel Subtotal</b>				<b>\$3,425.50</b>
 <b>Reproduction/Postage</b>				
Printing and media allowance	1	\$	75.00	\$ 75.00
				\$ -
				\$ -
<b>Reproduction Subtotal</b>				<b>\$75.00</b>
 <b>Computer/Special Equipment</b>				
Noise Monitor		\$	500.00	\$ -
				\$ -
<b>Computer Subtotal</b>				<b>\$ -</b>
 <b>Miscellaneous</b>				
Miscellaneous	1	\$	150.00	\$ 150.00
				\$ -
				\$ -
<b>Miscellaneous Subtotal</b>				<b>\$150.00</b>

BergerABAM Inc. Labor Estimate

Sub-Cons	Sazan	Certified Value	VE Assistant/Tec	\$ -	\$ -	\$ -	\$ -	\$ -	TOTAL
<b>DESCRIPTION</b>		\$ 171.56	\$ 59.26	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>5.0</b>	<b>CONFIGURATION SELECTION</b>								
5.1	Develop Screening Process for Alternatives and Matrix								
	Draft Screening Criteria								0
	Final Screening Criteria								0
	Screening/Decision Matrix								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.2	Alternatives Evaluated								
5.2.1	Identification of Alternatives and Brainstorming Session								
	Prepare Build Alternatives Development Session Materials								0
	Conduct Build Alternatives Development Meeting								0
	Summary of Build Alternatives Development Meeting								0
5.2.2	Limited Construction Alternatives Analysis								0
5.2.3	Prepare No-Action Alternative								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.3	Geotechnical Reconnaissance Memo								
	Draft Geotechnical Reconnaissance Memo								0
	Final Geotechnical Reconnaissance Memo								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.4	Alternatives Screening								
	Level 1 Screening Technical Memorandum								0
	Level 2 Screening Technical Memorandum								0
	Draft TAC Recommendation Letter								0
	Final TAC Recommendation Letter								0
	Council Briefings Presentations Preparation								0
	Council Briefings Attendance (4 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0

BergerABAM Inc. Labor Estimate

Sub-Cons	Sazan	Certified Value	VE Assistant/Tec	\$ -	\$ -	\$ -	\$ -	\$ -	TOTAL
<b>DESCRIPTION</b>		<b>\$ 171.56</b>	<b>\$ 59.26</b>	<b>\$ -</b>					
5.5	Value Engineering Study								
	Value Analysis Review	58	36						94
	Recommended Alternatives Report	16	8						24
	Value Engineering Workshop	56	42						98
	Value Engineering Report	20	12						32
	Evaluation and Recommendation VE Memo	4	0						4
	<i>SubTotal</i>	154	98	0	0	0	0	0	252
5.6	Alternatives Summary Report								
	Draft Alternatives Summary Report								0
	Final Alternatives Summary Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	<b>154</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>252</b>
	<b>Cost Subtotals=</b>	<b>\$ 26,421</b>	<b>\$ 5,808</b>	<b>\$ -</b>	<b>\$ 32,228</b>				
								<b>Rounded:</b>	<b>\$ 32,200</b>
	<b>TOTAL PROJECT HOURS</b>	<b>154</b>	<b>98</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>252</b>

EXHIBIT C: Subcontract Work/Fee Determination

**Sub-Consultant Analysis of Costs - PRODIMS**

Direct Salary Cost (DSC)

PERSONNEL	Hours	Pay Rate	Cost
Estimator	144	\$ 165.00	\$ 23,760
Staff Category 2	0	1.00	-
Staff Category 3	0	1.00	-
Staff Category 4	0	1.00	-
Staff Category 5	0	1.00	-
Staff Category 6	0	1.00	-
Staff Category 7	0	1.00	-
<hr/>			
Direct Salary Cost Total	144	-	\$ 23,760
Salary Escalation (see escalation tab)			\$ -
<u>Overhead Cost</u>	0.00%	of DSC	\$ -
<u>Net Fee</u>	0.00%	of DSC	\$ -
<hr/>			
		<b>SUBTOTAL</b>	\$ 23,760
<u>Reimbursables</u>			
Travel/Parking		\$	173
Reproduction/Postage			-
Computer/Special Equipment			-
Miscellaneous			394
<hr/>			
		<b>SUBTOTAL</b>	\$ 567
		<b>TOTAL</b>	\$ 24,327

EXHIBIT C  
BergerABAM Inc. Reimbursable Estimate

**Sub-Consultant Analysis of Costs - PRODIMS**

**Reimbursables**

	Units	at	Cost		
<b>Travel/Parking</b>					
Miles	306	\$	0.565	\$	172.89
Parking				\$	-
					<b>Travel Subtotal</b>
					<b>\$172.89</b>
<b>Reproduction/Postage</b>					
				\$	-
				\$	-
				\$	-
					<b>Reproduction Subtotal</b>
					<b>\$0.00</b>
<b>Computer/Special Equipment</b>					
Noise Monitor		\$	500.00	\$	-
				\$	-
				\$	-
					<b>Computer Subtotal</b>
					<b>\$-</b>
<b>Miscellaneous</b>					
Hotel	2	\$	113.00	\$	226.00
Per Diem	3	\$	56.00	\$	168.00
				\$	-
					<b>Miscellaneous Subtotal</b>
					<b>\$394.00</b>

BergerABAM Inc. Labor Estimate

Sub-Cons	PRODIMS	Estimator	Staff Category 2	Staff Category 3	Staff Category 4	Staff Category	Staff Category 6	Staff Category 7	TOTAL
		\$ 165.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	
<b>DESCRIPTION</b>									
<b>5.0</b>	<b>CONFIGURATION SELECTION</b>								
5.1	Develop Screening Process for Alternatives and Matrix								
	Draft Screening Criteria								0
	Final Screening Criteria								0
	Screening/Decision Matrix								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.2	Alternatives Evaluated								
5.2.1	Identification of Alternatives and Brainstorming Session								
	Prepare Build Alternatives Development Session Materials								0
	Conduct Build Alternatives Development Meeting								0
	Summary of Build Alternatives Development Meeting								0
5.2.2	Limited Construction Alternatives Analysis								0
5.2.3	Prepare No-Action Alternative								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.3	Geotechnical Reconnaissance Memo								
	Draft Geotechnical Reconnaissance Memo								0
	Final Geotechnical Reconnaissance Memo								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.4	Alternatives Screening								
	Level 1 Screening Technical Memorandum								0
	Level 2 Screening Technical Memorandum								0
	Draft TAC Recommendation Letter								0
	Final TAC Recommendation Letter								0
	Council Briefings Presentations Preparation								0
	Council Briefings Attendance (4 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
5.5	Value Engineering Study								
	Value Analysis Review	37							37
	Recommended Alternatives Report	2							2
	Value Engineering Workshop	39							39
	Value Engineering Report	2							2

BergerABAM Inc. Labor Estimate

Sub-Cons	PRODIMS	Estimator	Staff Category 2	Staff Category 3	Staff Category 4	Staff Category	Staff Category 6	Staff Category 7	TOTAL
		\$ 165.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	
	Evaluation and Recommendation VE Memo	0							0
	<i>SubTotal</i>	80	0	0	0	0	0	0	80
5.6	Alternatives Summary Report								
	Draft Alternatives Summary Report								0
	Final Alternatives Summary Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	80	0	0	0	0	0	0	80
	<b>Cost Subtotals=</b>	\$ 13,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,200
								<b>Rounded:</b>	\$ 13,200
9.0	<b>PRELIMINARY ENGINEERING</b>								
9.1	Hydraulics Report								
	Data Collection and Analysis								0
	Draft No. 1 of Hydraulics Report								0
	Response to Draft No.1 Comments								0
	Draft No. 2 of Hydraulics Report								0
	Response to Draft No. 2 Comments								0
	Final Hydraulics Report								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
9.2	Preliminary Plans								
1	Cover Sheet								0
1	Vicinity Map								0
5	Alignment and ROW								0
5	Roadway Sections								0
5	Site Preparation								0
5	Roadway Profiles								0
5	Drainage Plans								0
5	Drainage Profiles								0
1	Structure Plan & Elevation								0
6	Walls								0
5	Pavement Markings								0
5	Paving Plans								0
2	Miscellaneous								0

BergerABAM Inc. Labor Estimate

Sub-Cons	PRODIMS	Estimator	Staff Category 2	Staff Category 3	Staff Category 4	Staff Category	Staff Category 6	Staff Category 7	TOTAL
		\$ 165.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
9.1	Preliminary Cost Estimate	64							64
9.4	Channelization Plans for Approval								
	Draft No. 1 of Channelization Plans								0
	Draft No. 2 of Channelization Plans								0
	Draft N. 3 of Channelization Plans								0
	Final Channelization Plans								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
9.5	Design Variance								
	Design Variance Inventory								0
	Draft No. 1 of Deviations and EUs (4 max)								0
	Draft No. 2 of Deviations and EUs (4 max)								0
	Draft No. 3 of Deviations and EUs (4 max)								0
	Final Deviations and EUs (4 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
9.6	Construction Phasing Plan								
	Component Estimate of Preferred Configurion								0
	Draft Phasing Plan (1 max)								0
	Final Phasing Plan (1 max)								0
	<i>SubTotal</i>	0	0	0	0	0	0	0	0
	<b>TASK HOURS</b>	64	0	0	0	0	0	0	64
	<b>Cost Subtotals=</b>	\$ 10,560	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,560
								<b>Rounded:</b>	\$ 10,600
	<b>TOTAL PROJECT HOURS</b>	144	-	-	-	-	-	-	144