



**KITTELSON & ASSOCIATES, INC.**

**TRANSPORTATION PLANNING/TRAFFIC ENGINEERING**

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## MEMORANDUM

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**Date:** August 20, 2004

**Project #:** 6780.

**To:** Geoff Larkin, The Larkin Group  
Rob DeGraff, ODOT  
Dale Himes, WSDOT  
Fred Eberle, ODOT  
Bart Gernhart, WSDOT

**From:** Marc Butorac, P.E., P.T.O.E., Elizabeth Wemple, P.E.

**Project:** I-5 Columbia River Crossing Partnership: Concept. Engineering & Env. Analysis

**Subject:** Task B1.1 - Data Request – DRAFT

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The purpose of the I-5 Columbia River Crossing Partnership: Conceptual Engineering and Environmental Analysis project is to develop a “warehouse” for all of the work that has been completed thus far; assess additional analysis requirements; and assist ODOT and WSDOT in developing a purpose and need statement for the forthcoming environmental analysis.

As part of the first project activity (Task B1.1.), Kittelson & Associates, Inc. (KAI) and the project team are requesting available transportation planning, traffic operations, functional design and environmental analysis data, decision documentation and mapping information. We expect this first request of data will also prompt ideas for additional resources that will be collected during Phase 1 of this project.

The data request included below has been organized into environmental and conceptual engineering subject areas, and according to the broad subject areas: Trade Corridor work, Other Related Studies and Resource Documents. To the extent possible we have identified likely sources for the information (highlighted in parentheses), and the priority for the data.

In order to maintain the current project schedule, the data will be required back to the Contract team by August 30, 2004. KAI will distribute the material to the individual contractors as soon as possible thereafter.

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## ENVIRONMENTAL

### Trade Corridor Data

All of the needs identified below are necessary to conduct work under this scope of work, and are therefore considered high priority.

#### *Final Strategic Plan (June 2002)*

1. *Historic Property* – please provide any background documents or data behind key findings made on page 13, 18, and 23 (DEA or I-5 Partnership). ***Historic Technical Memorandum; Environmental Impact Assessment Draft Report Oct 30, 2002***
2. *Fish Habitat* – please provide any background documents or data behind findings made on page 13, 18, and 23 (DEA or I-5 Partnership). ***Natural Environment Technical Memorandum; Environmental Impact Assessment Draft Report Oct 30, 2002***
3. *Wildlife Habitat* – please provide any background documents or data behind findings made on page 13, 18, and 23 (DEA or I-5 Partnership). ***Natural Environment Technical Memorandum; Environmental Impact Assessment Draft Report Oct 30, 2002***
4. *Plant Habitat* – please provide any background documents or data behind findings made on page 13, 18, and 23 (DEA or I-5 Partnership). ***Natural Environment Technical Memorandum; Environmental Impact Assessment Draft Report Oct 30, 2002***
5. *Wetlands* – please provide any background documents or data behind findings made on page 13, 18, and 23 (DEA or I-5 Partnership). ***Natural Environment Technical Memorandum; Environmental Impact Assessment Draft Report Oct 30, 2002***

#### **Other**

1. Project maps for project area north of the Columbia River (DEA or I-5 Partnership). ***On CD***
2. Air Travel – Information on flight patterns and restricted zones associated with nearby airports on both sides of the river and any analysis surrounding the project's potential impacts to current operation or future expandability or operations of either of the airports in the vicinity? ***Maps***

#### **Other Related Studies**

All of the needs identified below are pertinent to the effort required under this scope of work. These documents should be considered as a medium-level of priority.

1. FAR Part 150 for Portland International Airport (Port of Portland) ***Eberle/Johnson to check***
2. Arrival and Departure overflight patterns for Pearson Field Airport (I don't think they did a FAR Part 150) (City of Vancouver) ***Eberle/Johnson to check***

## CONCEPTUAL ENGINEERING

### Trade Corridor Data

All of the following material is critical to Phase 1 of this project and is therefore considered critical.

1. Documentation related to consolidating the 20 concepts developed as part of the visioning process to the seven concepts evaluated in detail (DEA or I-5 Partnership). **CD-Web**
2. “Staff Recommendations to the Task Force on the Corridor Improvement Packages”. According to the Transportation Presentations Summary Document prepared by DEA this document presents the justification for dropping from nine to seven options during April and May of 2001 (DEA or I-5 Partnership). **CD-Web**
3. Documentation/explanation of the evaluation that occurred in December 2001/January 2002 to develop draft corridor recommendations (three through lanes, LRT, bridge supplement of replacement – 2 lanes, interchange improvements) from the 7 highway options (DEA or I-5 Partnership). **CD-Web**
4. Documentation/explanation for consolidating the eight bridge concepts to the four concepts that were analyzed in the Bridge Influence Area study (DEA or I-5 Partnership). **CD-Web**
5. Documentation for Item I on Page 26 of the Strategic Plan (CD Roads, arterial only bridge concepts, and tunnels do not show promise) (DEA or I-5 Partnership). **CD-Web**
6. Scaleable electronic aerial photos with georeferencing coordinates (ODOT or WSDOT) **CD**
7. Existing, no-build and baseline traffic volumes, traffic operations analyses and safety analyses (DEA or I-5 Partnership). **CD**
8. 20 initial concepts (DEA or I-5 Partnership)
  - a. Electronic conceptual sketches, as available **DEA**
9. Nine (9) concepts (DEA or I-5 Partnership) **DEA - CD**
  - a. Electronic conceptual sketches, as available **DEA - CD**
  - b. Traffic volume summaries and other traffic information. **DEA - CD**
10. Four (4) concepts focusing on Bridge Influence Area (BIA) (DEA or I-5 Partnership)
  - a. Electronic concepts, as available **DEA - CD**
  - b. Traffic volume summaries and other traffic information. **DEA - CD**
  - c. Traffic operations analysis for each concept **DEA - CD**
11. All construction cost calculation sheets for all alternatives. Note that current cost estimates are in 2001 dollars; we anticipate that an updated cost estimate will be needed

as part of the environmental process (DEA or I-5 Partnership). ***Eberle searching for electronic file***

#### **Resource Documents**

All of the following material is critical to Phase 1 of this project and is therefore considered critical.

1. Geometric Design Manuals/Guidance/Criteria of: ***Design Criteria Report June 01***
  - a. FHWA (e.g. Context Sensitive Design) (ODOT or WSDOT) ***Web***
    - i. Flexibility in Highway Design (FHWA-PD-97-062) ***Web***
    - ii. Building Projects that Build Better Communities - Recommended Best Practices (WSDOT 2003) ***Web***
    - iii. Context Sensitive Design for Integrating Highway and Street Projects with Community and the Environment (also called Bridging Document) ***Web***
  - b. AASHTO, A Policy on Geometric Design of Highways and Streets, 2001 ***Web***
2. Structural Design Manuals/Guidance/Criteria of (ODOT or WSDOT):
  - a. Bridge (e.g. overpass, underpass, etc.) ***Design Criteria Report June 01***
  - b. Major utilities ***Design Criteria Report June 01***
  - c. Railroads ***Design Criteria Report June 01***
3. Burlington Northern Santa Fe Railway (BNSF) ***Design Criteria Report June 01***
  - a. Design guidelines for those facilities interfacing with I-5.
4. United State Coast Guard (USCG or ODOT) ***Summary Report***
  - a. 1998 through most recent annual bridge lifts by month and type (e.g. tug/commercial, recreational)
  - b. Restrictions on bridge openings (i.e. daily or hourly restrictions)
  - c. Structural changes to the bridges that may have affected clearance height

#### **COST ESTIMATING**

All of the following material is critical to Phase 1 of this project and is therefore considered critical.

#### **Trade Corridor Data**

1. Calculation sheets of cost estimates ***Eberle-Johnson***
  - a. ODOT
  - b. WSDOT

**Other Related Studies**

- I.* Cost estimating sheets of other projects (not reference within Trade Corridor Study) recently completed within the study area. ***Web***

**Resource Documents**

1. Conceptual Construction Cost Estimating Guidelines ***Eberle-Johnson***
  - a. ODOT
  - b. WSDOT
2. Right-of-Way Cost Estimate ***Eberle-Johnson***
  - a. ODOT
  - b. WSDOT

Again we trust that in addition to the items identified above, this data request will prompt ideas for additional data needs. If so, please contact us and we will continue to update this throughout Phase 1.

Thank you in advance for your time and efforts gathering this data. We look forward to receiving this material on August 30, 2004 or soon thereafter.