2014 INTERSTATE SIGN REPLACEMENT PROJECT (PORTLAND) MULTNOMAH COUNTY

TRAFFIC MANAGEMENT PLAN

PREPARED FOR:
OREGON DEPARTMENT OF TRANSPORTATION

PREPARED BY:
DAVID EVANS AND ASSOCIATES, INC.

JULY 15, 2014
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INTRODUCTION

The “2014 Interstate Sign Replacement Project (Portland)” (Project) is located on I-5 and I-405 within the City of Portland in Multnomah County.

The interstate signs and structures on I-5 and I-405 in the City of Portland are in need of replacement or upgrading to meet new standards. These standards include, but are not limited to: retro-reflectivity, structural design, location, and size. The most critical signs and structures will be identified for repair, replacement, or upgrade within the project budget.

The project includes overhead sign support structure evaluation; sign replacement, installation, and/or removal; subsurface exploration and geotechnical analysis/design; and all associated traffic control and construction staging needed to complete the work.

The major Project elements include:

- Replacement Signing and associated structures;
- Construction and temporary traffic control;

This Traffic Management Plan defines the mitigation measures that should be implemented to address the traffic impacts created by this construction project. This is a draft traffic management plan, which may change up to and during construction.

STUDY AREA

The Study Area for sign replacement is between Mile Point (M.P.) 298.75 and M.P. 305.44 on State Highway No.: 0001, (I-5) and between M.P. 3.07 and M.P. 3.70 on State Highway No.: 0061, (I-405). A total of 50 existing and potential project locations (42 on I-5 and 8 on I-405) are planned for modification, installation or removal of signs and/or sign structures in the Study Area. See Figure 1: Site Map on the following page for the project locations and Table 1 for a list of the project locations.
Figure 1: Site Map
### Table 1: 2014 Interstate Sign Replacement Projects

<table>
<thead>
<tr>
<th>Freeway</th>
<th>Location</th>
<th>Direction</th>
<th>General Description</th>
<th>Support Type</th>
<th>Structure Number (New/Modify Foundations)</th>
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I-405 Sign Sites 8
I-5 Sign Sites 42
TRAFFIC MANAGEMENT PLAN

Anticipated off-site traffic management issues were identified using traffic count information, traffic observations both in person and via video camera, traffic analysis models, and discussions with ODOT staff.

ALL PRIORITY GROUPS

Construction within all three priority groups may include the installation of new cantilever and sign bridge structures, as well as, the modification of existing sign mounting structures to accommodate the new signs. Roadside impacts will include excavations for footings and erection of steel sign structures. Impacts to the traveled way include installation of steel cantilever arms, installation of sign bridge spans, and removal or modifications to existing sign mounts and installation of new signs.

It is anticipated that roadside work will occur at night and potentially require shoulder and/or single lane closures. Work occurring in the traveled way will occur at night and will require single and/or multiple lane closures. These closures shall utilize ODOT temporary traffic control standard drawings which reference freeway conditions.

CLOSURES

The Contractor shall be permitted to close all travel lanes on the Pacific Highway (I-5) and Stadium Freeway (I-405) during sign bridge and sign installation and sign support structure removal. Ramps associated with the freeway segments closures will be permitted to be closed at the same time. This work will only be permitted:

• between the hours of 11:30 p.m. Monday and 4:30 a.m. Tuesday
• between the hours of 11:30 p.m. Tuesday and 4:30 a.m. Wednesday
• between the hours of 11:30 p.m. Wednesday and 4:30 a.m. Thursday
• between the hours of 11:30 p.m. Thursday and 4:30 a.m. Friday
• between the hours of 11:30 p.m. Friday and 6:00 a.m. Saturday
• between the hours of 11:30 p.m. Saturday and 6:00 a.m. Sunday
• between the hours of 11:30 p.m. Sunday and 4:30 a.m. Monday

Do not close both I-5 and I-405 in the same direction at the same time.

Do not close the roadway until all materials and equipment are on hand or guaranteed to be delivered so that the work can be done in an efficient manner with a minimum period of road closure. No road closure will be permitted until the area is signed according to the TCP
RESTRICTED HOURS

Do not close any traffic lanes and remove all barricades and objects from the roadway during the following periods:

- **Pacific Highway (I-5) and Stadium Freeway (I-405) Northbound and Southbound**

  **2-lane sections**
  
  Do not close a lane:
  - Between 5:00 a.m. and 10:00 p.m., Monday through Friday
  - Between 7:00 a.m. and 11:00 p.m., Saturday
  - Between 8:00 a.m. and 10:00 p.m., Sunday

  **3-lane sections**
  
  Do not close two lanes:
  - Between 5:00 a.m. and 10:00 p.m., Monday through Friday
  - Between 7:00 a.m. and 11:00 p.m., Saturday
  - Between 8:00 a.m. and 10:00 p.m., Sunday

  **4-lane sections**
  
  Do not close a lane:
  - Between 5:30 a.m. and 8:00 p.m., Monday through Friday
  - Between 8:00 a.m. and 8:00 p.m., Saturday
  - Between 9:00 a.m. and 8:00 p.m., Sunday

- **Ramps**

  Do not close the following ramps:
  - (a) Corbett Avenue Northbound Off-ramp (Exit 298)
  - (b) Macadam Avenue Northbound Off-ramps (Exit 299A)
  - (c) Broadway Street Northbound On-ramp
  - (d) Lombard Street East Northbound Off-ramp (Exit 305A)
  - (b) Lombard Street West Northbound Off-ramp (Exit 305B)
  - (e) I-84 Westbound Connection to City Center (OMSI)/Morrison Bridge
  - (f) Oregon City (OMSI) Southbound Off-ramp (Exit 300B)
  - (g) Weidler Street Southbound On-ramp
  - (h) Alberta Street Southbound Off-ramp (Exit 303)
  - (i) Rosa Parks Way Southbound Off-ramp (Exit 304)
    - Between 6:00 a.m. and 9:00 p.m., Monday through Friday
    - Between 7:00 a.m. and 9:00 p.m., Saturday
    - Between 8:00 a.m. and 9:00 p.m., Sunday
• **Special Events**

Do not close lanes or ramps during the following special events:
- Starlight Parade - June 6, 2015
- Rose Festival Grand Floral Parade - June 13, 2015
- Providence Bridge Pedal - August 9, 2015
- Race for the Cure - September 20, 2015
- Portland Marathon - October 11, 2015

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**OVERSIZED LOAD ACCOMMODATION**

During times of anticipated over-dimensional vehicles presence, maintain minimum usable roadway widths on I-5, I-84 and I-405 as shown below.

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<th>INTERSTATE</th>
<th>SINGLE LANE (ft)</th>
<th>TWO LANE (ft)</th>
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<tr>
<td>Daytime and Nighttime</td>
<td>19</td>
<td>28</td>
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Anticipate over-dimensional vehicles during the following periods:
- January: Between 7:00 a.m. and 5:30 p.m.
- February: Between 6:30 a.m. and 6:00 p.m.
- March: Between 7:00 a.m. and 8:00 p.m.
- April: Between 6:00 a.m. and 8:30 p.m.
- May: Between 5:30 a.m. and 9:00 p.m.
- June: Between 5:00 a.m. and 9:30 p.m.
- July: Between 5:00 a.m. and 9:30 p.m.
- August: Between 5:30 a.m. and 9:00 p.m.
- September: Between 6:00 a.m. and 8:00 p.m.
- October: Between 7:00 a.m. and 7:00 p.m.
- November: Between 6:30 a.m. and 5:30 p.m.
- December: Between 7:00 a.m. and 5:00 p.m.

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**CONTRACTOR TRAFFIC CONTROL PLAN**

The Contractor will be allowed to use the Agency’s TCP, modify the Agency’s TCP, or use a different TCP. Submit traffic control and detour plans for any ramp closures required for sign installations not shown on the plans, for approval, a minimum of 7 calendar days before the work is scheduled. Submit the following, for approval, 5 calendar days before the preconstruction conference:

**(a) Agency or Contractor TCP** - If the Agency's TCP is used without modification, a written notification indicating that the Agency’s TCP will be used without modification.

If the Contractor will be using a modified Agency TCP, or if the Contractor will not be using the Agency’s TCP, provide stamped working drawings which include the following:

- Proposed TCP showing all TCM and quantities of all TCD.
- Proposed order and duration of the TCM.
- A detailed temporary striping plan.

**(b) Tourist-Oriented Directional and Business Logo Signs** - One copy of a sketch map of the Project showing all existing tourist-oriented directional (TOD) and business logo signs and a written narrative
describing how these signs will be kept in service and protected throughout all the construction stages.

If there are no TOD or business logo signs on the project, a written notification that no TOD or business logo signs exist within the project limits.

If additional modifications are made to the Contractor modified Agency TCP or the Contractor's TCP, submit stamped working drawings, at least 14 calendar days before beginning the construction activities that require the TCP changes.

**SPECIAL CLOSURES**

When installing sign bridge spans, a freeway closure will be needed and detour plans will be prepared for those sites, by the consultant preparing the final design plan package.

**PRIORITY GROUP 1 (I-5 N.B & S.B. - M.P. 298.75 TO M.P. 301.42)**

This section of I-5 provides freeway access to downtown Portland and the inner east side of Portland including two system to system interchanges, one with I-84 and one with I-405. I-5 moves over 134,000 vehicles per day on average in this area, with congestion during the AM and PM peak hours. This section of I-5 may include the installation of new cantilever and sign bridge structures, as well as, the modification of existing sign mounting structures to accommodate the new signs. Roadside impacts will include excavations for footings and erection of steel sign structures. Impacts to the traveled way include installation of steel cantilever arms, installation of sign bridge spans, and removal or modifications to existing sign mounts and installation of new signs.

It is anticipated that roadside work will occur at night and potentially require shoulder and/or single lane closures. Work occurring in the traveled way will occur at night and will require single and/or multiple lane closures. These closures should utilize ODOT temporary traffic control standard drawings which reference freeway conditions. When installing sign bridge spans, a freeway closure will be needed and detour plans will be prepared for those sites, by the consultant preparing the final design plan package.

The Contractor will be permitted to close all travel lanes in the directional freeway segments listed below on the Pacific Highway (I-5) and Stadium Freeway (I-405) during sign bridge and sign installation and sign support structure removal. Ramps associated with the freeway segments will be permitted to be closed at the same time.

- **Sign bridge installation on I-5 Marquam Bridge northbound (Upper Deck) from MP 300.32 to MP 300.69.** Limit the closure to a maximum duration of three nights.

- **Sign installation I-5 on Marquam Bridge southbound (Lower Deck) from MP 301.42 to MP 300.23.** Limit the closure to a maximum duration of four nights.
The Contractor will be permitted to close both directions of Pacific Highway (I-5) and associated ramps during sign bridge installation at the following locations below:

- I-5 at MP 301.13 and I-84 Westbound ramp connection to I-5 South. Limit the closure to a maximum duration of one night.

This work will only be permitted:

- between the hours of 11:30 p.m. Monday and 4:30 a.m. Tuesday
- between the hours of 11:30 p.m. Tuesday and 4:30 a.m. Wednesday
- between the hours of 11:30 p.m. Wednesday and 4:30 a.m. Thursday
- between the hours of 11:30 p.m. Thursday and 4:30 a.m. Friday
- between the hours of 11:30 p.m. Friday and 6:00 a.m. Saturday
- between the hours of 11:30 p.m. Saturday and 6:00 a.m. Sunday
- between the hours of 11:30 p.m. Sunday and 4:30 a.m. Monday

Do not close both I-5 and I-405 in the same direction at the same time.

Do not close the roadway until all materials and equipment are on hand or guaranteed to be delivered so that the work can be done in an efficient manner with a minimum period of road closure. No road closure will be permitted until the area is signed according to the TCP.

Detour routes for this priority group in both the Northbound and Southbound directions would almost certainly consist of routing traffic around any closures utilizing I-405, as shown in Figure 2.
Figure 2: Priority Group 1 Detour
This section of I-405 and I-5 provides freeway access to downtown Portland and the inner north side of Portland including access to Port of Portland facilities and two system to system interchanges, one between I-5 and I-405 and one between I-405 and US 30. I-5 moves over 119,000 vehicles per day on average in this area, with congestion during the AM and PM peak hours. This section of I-405 moves over 119,000 vehicles per day on average with congestion at the interchange with I-5 in the AM and PM peak hours. This priority group may include the installation of new cantilevers, a sign bridge, and structure mounts, as well as, the modification of existing sign mounting structures to accommodate the new signs. Roadside impacts will include excavations for footings and erection of steel sign structures. Impacts to the traveled way include installation of steel cantilever arms, installation of sign bridge spans, and removal or modifications to existing sign mounts and installation of new signs.

It is anticipated that roadside work will occur at night and potentially require shoulder and/or single lane closures. Work occurring in the traveled way will occur at night and will require single and/or multiple lane closures. These closures should utilize ODOT temporary traffic control standard drawings which reference freeway conditions. When installing sign bridge spans, a freeway closure will be needed and detour plans will be prepared for that site, by the consultant preparing the final design plan package.

The Contractor will be permitted to close all travel lanes in the directional freeway segments listed below on the Pacific Highway (I-5) and Stadium Freeway (I-405) during sign bridge and sign installation and sign support structure removal. Ramps associated with the freeway segments will be permitted to be closed at the same time.

- Sign installation on I-5 southbound from MP 303.41 to MP 302.10 (from the exit-ramp to I-405 southbound/Fremont Bridge to the Weidler Street southbound entrance ramp). Limit the closure to a maximum duration of four nights.

- Sign bridge and sign installation on I-405 Fremont Bridge southbound (Upper Deck) from MP 3.42 to MP 3.07. Limit the closure to a maximum duration of two nights with a maximum duration of 25 calendar days between the first full closure to remove the sign bridge and signs and the second full closure to reconstruct the new sign bridge and install the new signs.

- Sign bridge and sign installation on I-405 Fremont Bridge northbound (Lower Deck) from MP 3.19 to MP 3.74. Limit the closure to a maximum duration of two nights.

This work will only be permitted:

- between the hours of 11:30 p.m. Monday and 4:30 a.m. Tuesday
- between the hours of 11:30 p.m. Tuesday and 4:30 a.m. Wednesday
- between the hours of 11:30 p.m. Wednesday and 4:30 a.m. Thursday
- between the hours of 11:30 p.m. Thursday and 4:30 a.m. Friday
- between the hours of 11:30 p.m. Friday and 6:00 a.m. Saturday
- between the hours of 11:30 p.m. Saturday and 6:00 a.m. Sunday
- between the hours of 11:30 p.m. Sunday and 4:30 a.m. Monday
Do not close both I-5 and I-405 in the same direction at the same time.

Do not close the roadway until all materials and equipment are on hand or guaranteed to be delivered so that the work can be done in an efficient manner with a minimum period of road closure. No road closure will be permitted until the area is signed according to the TCP

Detour routes for this priority group would almost certainly consist of routing traffic around any closures utilizing I-5, as shown in Figure 3.

### PRIORITY GROUP 3 (I-5 N.B & S.B. - M.P. 301.61 TO M.P. 302.82)

This section of I-5 provides freeway access to the Rose Quarter neighborhood and the inner east side of Portland. I-5 moves over 121,000 vehicles per day on average in this area, with congestion during the AM and PM peak hours. This section of I-5 may include the installation of new cantilevers, a sign bridge, and structure mounts, as well as, the modification of existing sign mounting structures to accommodate the new signs. Roadside impacts will include excavations for footings and erection of steel sign structures. Impacts to the traveled way include installation of steel cantilever arms, installation of sign bridge spans, and removal or modifications to existing sign mounts and installation of new signs.

It is anticipated that roadside work will occur at night and potentially require shoulder and/or single lane closures. Work occurring in the traveled way will occur at night and will require single and/or multiple lane closures. These closures should utilize ODOT temporary traffic control standard drawings which reference freeway conditions. When installing sign bridge spans, a freeway closure will be needed and detour plans will be prepared for that site, by consultant preparing the final design plan package.

The Contractor will be permitted to close all travel lanes in the directional freeway segments listed below on the Pacific Highway (I-5) and Stadium Freeway (I-405) during sign bridge and sign installation and sign support structure removal. Ramps associated with the freeway segments will be permitted to be closed at the same time.

- Cantilever sign support removal on I-5 Northbound at MP 302.68. Limit the closure to a maximum duration of one night.

- Sign installation on I-5 northbound from MP 302.10 to MP 303.41 (from the Weidler Street exit-ramp to the exit-ramp to I-405/Fremont Bridge). Limit the closure to a maximum duration of four nights.

The Contractor will be permitted to close both directions of Pacific Highway (I-5) and associated ramps during sign bridge installation at the following locations below:

- I-5 at MP 302.69. Limit the closure to a maximum duration of one night.

This work will only be permitted:

- between the hours of 11:30 p.m. Monday and 4:30 a.m. Tuesday
- between the hours of 11:30 p.m. Tuesday and 4:30 a.m. Wednesday
- between the hours of 11:30 p.m. Wednesday and 4:30 a.m. Thursday
between the hours of 11:30 p.m. Thursday and 4:30 a.m. Friday
between the hours of 11:30 p.m. Friday and 6:00 a.m. Saturday
between the hours of 11:30 p.m. Saturday and 6:00 a.m. Sunday
between the hours of 11:30 p.m. Sunday and 4:30 a.m. Monday

Do not close both I-5 and I-405 in the same direction at the same time.

Do not close the roadway until all materials and equipment are on hand or guaranteed to be delivered so that the work can be done in an efficient manner with a minimum period of road closure. No road closure will be permitted until the area is signed according to the TCP.

Detour routes for this priority group would almost certainly consist of routing traffic around any closures utilizing I-405, as shown in Figure 4.
Figure 3: Priority Group 2 Detour
Figure 4: Priority Group 3 Detour