

Alaskan Way Viaduct & Seawall Replacement Program



Program Oversight Committee
April 14, 2011

Presentation Topics

- Program investments – south
- S. Holgate Street to S. King Street Viaduct Replacement Project update
- SR 99 bored tunnel project update
- Program investments – north and central
- Closing and next steps

S. Spokane Street Viaduct Widening Project

- Completed construction of new eastbound off-ramp at Fourth Avenue S. and opened to traffic in August 2010.
- Demolished westbound on-ramp at First Avenue S. and demolished westbound off-ramp at Fourth Avenue S.

Looking ahead

- New westbound on- and off-ramp at First Avenue S. will be open fourth quarter of 2011.
- Substantial completion first / second quarter of 2012.

Project Budget	Expenditures Through Feb. 28, 2011
\$163 million*	\$89 million

**\$50 million is funded by WSDOT as part of S. Holgate Street to S. King Street Viaduct Replacement mitigation.*

New Eastbound Off-ramp at Fourth Avenue S.



New Structure North of Existing Viaduct



East Marginal Way Grade Separation Project

- Major construction of the overpass spans began in February.

Looking ahead

- Major construction of the overpass spans will be completed in June.
- Project is on schedule for completion in fall 2011.



Project Budget	Expenditures Through January 31, 2011
\$50.4 million	\$39.2 million

Construction Transit Service and Demand Management (Holgate to King)

- Implemented 31 new peak period trips on four routes to and from Southwest Seattle.
- Started education and outreach program and marketing of travel options by launching pass programs and telecommuting training.

Looking ahead

- Continue to add bus trips to help increase transit capacity.
- Continue to implement demand management programs including residential outreach projects in West Seattle, White Center, South Park and Georgetown.

Project Budget	Expenditures Through March 31, 2011
\$32 million	\$5.5 million

S. Holgate Street to S. King Street Viaduct Replacement (south end)

- Demolished the first section of the viaduct, the SR 99 northbound on-ramp.
- Relocated the SR 99 on- and off-ramps from First Avenue S. to S. Royal Brougham Way. Opened new on-ramp early and in time for the Mariners and Sounders FC seasons.

Looking ahead

- Narrow SR 99 to two lanes in both directions in May.
- Southbound SR 99 traffic will begin using SR 99 detour in late 2011.

Governor's Proposed 2011 Budget	Expenditures Through Feb. 28, 2011
\$394.8 million	\$169.8 million

S. Holgate to S. King Viaduct Replacement



Before construction



STAGING AREA

CONTINUING CONSTRUCTION

- Roadway will be complete in 2013.
- SR 99 remains open during construction.
- Reduced capacity on SR 99 south of S. King Street in 2011.
- South end viaduct demolition in early 2012.

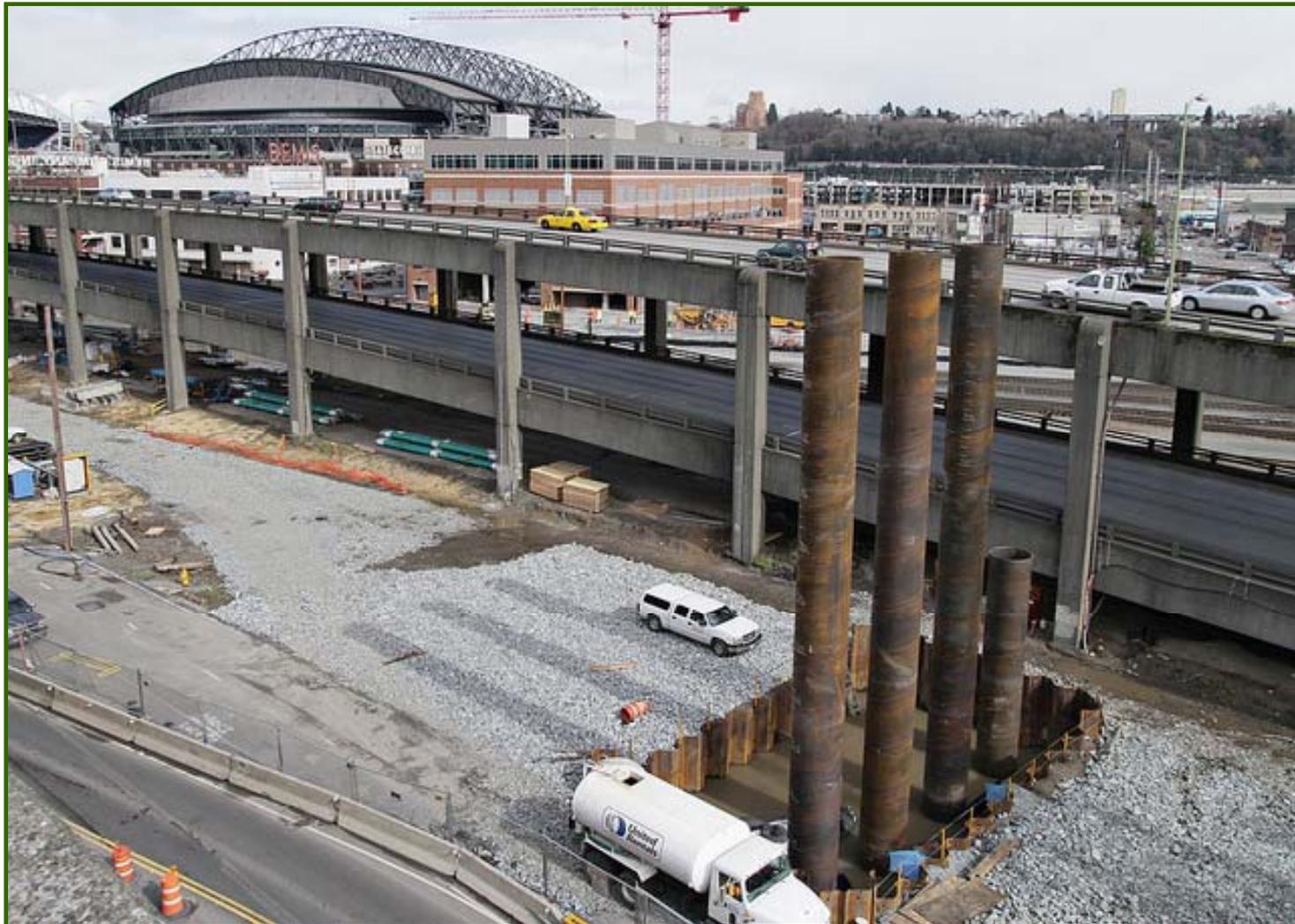
Demolishing the SR 99 On-ramp



Building the SR 99 Detour



Driving Piles for the New SR 99 Roadway



Construction Coordination Goals

- No surprises.
- Maintain public trust.
- Agencies continue to work together.
- Coordinate work to minimize impacts to the public.
- Identify potential conflicts.
- Keep users (bicycles, pedestrians, transit, freight, drivers) moving.
- Maintain business and resident access.
- Build upon past experience.



King County



**Washington State
Department of Transportation**



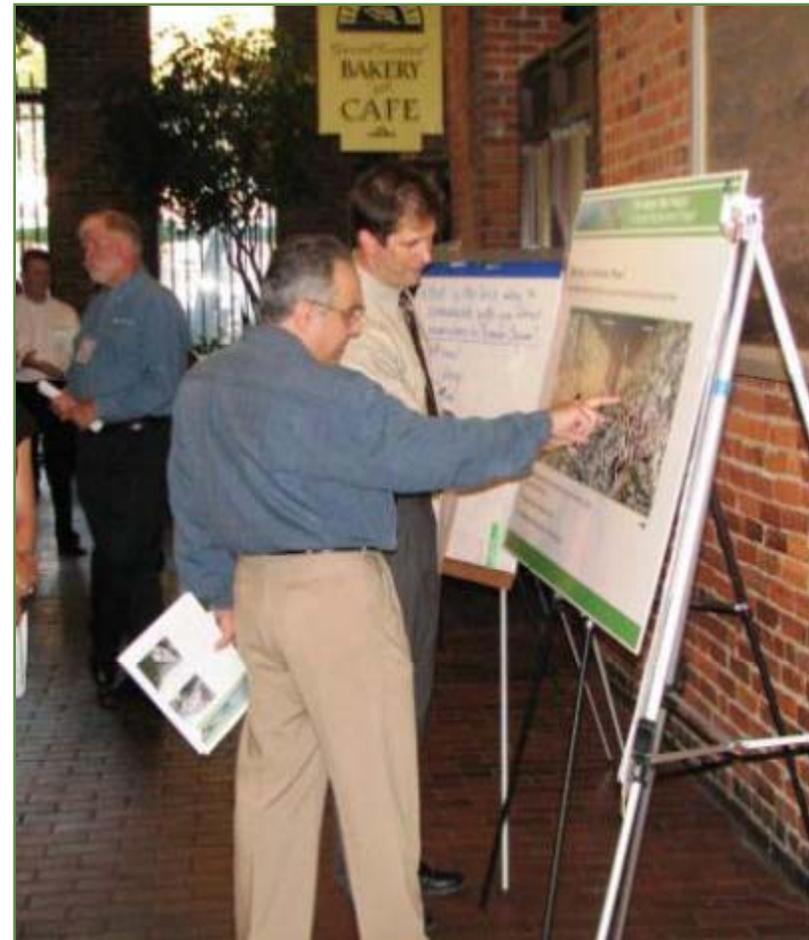
Construction Coordination Activities

- Coordinate and communicate daily on construction activities.
- Ensure access for all modes (pedestrians, bicycles, freight, transit and vehicles).
- Plan coordination approach up to three years in advance.
- Predict location, duration and type of road closures.
- Reduce conflicts and minimize traffic and business impacts.
- Proactively engage media with latest information.



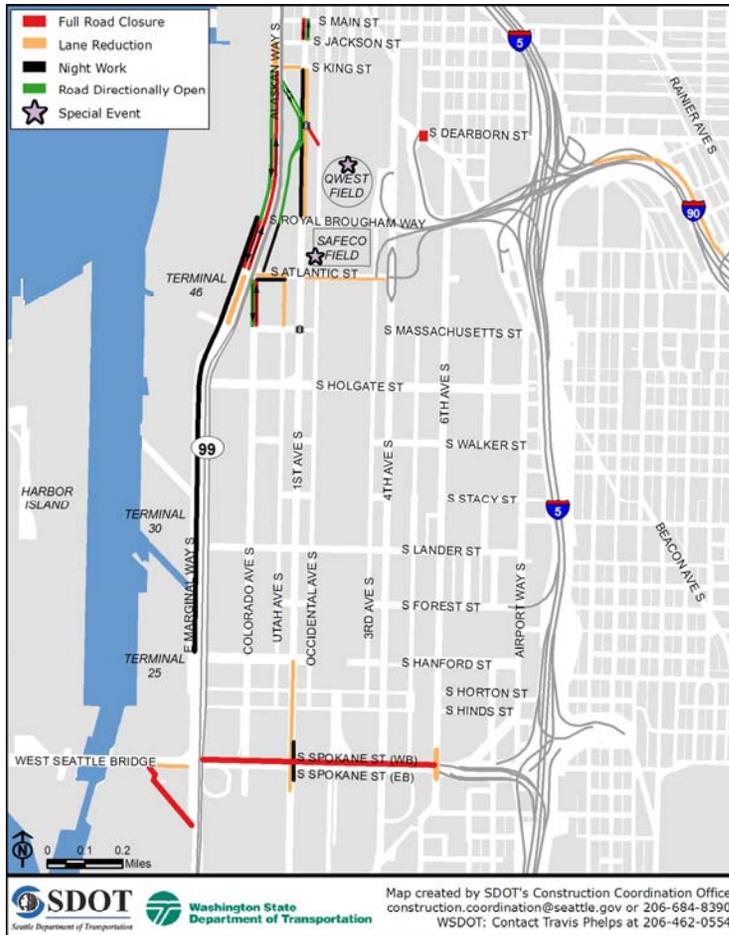
Ongoing Construction Outreach

- Door to door outreach and weekly emails to project neighbors.
- Weekly construction updates at Maintenance of Traffic meetings.
- Regular contact with residents and businesses in Pioneer Square, SODO/Duwamish and West Seattle.
- Provide updates to neighbors with sensitive equipment.
- News releases and media availabilities.
- Daily website updates.
- Real-time transit alerts via e-mail and text message.



Program staff talk with members of the community at a public meeting.

SODO Specific Construction Update



SODO Planned Construction / Events		
Date(s) and Times	Project Name / Agency	Description of Traffic Impacts
Through Mar 24 8PM to 5AM	Lane closure on Edgar Martinez Dr S	The eastbound right lane of Edgar Martinez Dr S between 1st Ave S and the I-5/I-90 interchange and the south sidewalk will be closed each night.
Mar 25 7PM	Seattle Sounders FC versus Houston Dynamo	Qwest Field
Mar 25-28 11PM thru 5AM	Lane closure and sidewalk closure on Edgar Martinez Dr S	The eastbound right lane of Edgar Martinez Dr S between 1st Ave S and the I-5/I-90 interchange will be closed through the weekend. The south sidewalk will be closed each night.
Mar 27 4PM to 7PM	Taste Washington Wine Festival	Qwest Field Event Center
Mar 27-31 8PM to 5AM	Lane closure on Edgar Martinez Dr S	The eastbound right lane of Edgar Martinez Dr S between 1st Ave S and the I-5/I-90 interchange and the south sidewalk will be closed each night.
Mar 28-Apr 1 9AM to 3PM	Lane closures on S King St	S King St will be reduced to one lane in each direction between 1st Ave S and Alaskan Way S each day.
Mar 29 7AM to 4PM	Lane closure on Utah Ave S	One northbound lane on Utah Ave S will be closed between S Atlantic St and S Massachusetts St during the day. Two-way traffic will be maintained.
Mar 29-31 7PM to 5AM	S Atlantic St closed each night	S Atlantic St will be closed between Utah Ave S and Alaskan Way S each night. Local access to Colorado Ave S will be maintained via S Massachusetts St.
Mar 29-31 7PM to 5AM	Alaskan Way S closed each night	Alaskan Way S will be closed between S Hanford St and S Royal Brougham Way each night. Local access to S Massachusetts St will be maintained via S Hanford St.

Traveler's Information Map

SEATTLE.GOV
Greg Nickels, Mayor

SEARCH: Go

Seattle Department of Transportation
A vibrant Seattle through transportation excellence
Grace Crunican, Director

Travelers Information Map

Find out before you go
This map is designed to serve the Seattle area by providing access to live traffic congestion information. (Best viewed in 1024 x 768 screen resolution)

- Planned Event
- New Incident
- SDOT and WSDOT Traffic Cameras

Heavy Light No Data

SDOT Traffic Alerts

Special Event
MONTLAKE BLVD NE
From: NE PACIFIC ST
Lanes Affected:
Description: Funeral Procession of Officer Timothy Brenton: UofW E-1 lot to Montlake Blvd NE, 24th Ave E, 23rd Ave E, E Madison St, E Pine St, Broadway and Denny Way, ending at Key Arena.
Start Time: 11/6/2009 9:00 AM
Est. End Time: 11/6/2009 12:00 PM

Additional Resources

- [New camera & map info](#)
- [Frequently Asked Questions](#)
- [Current Construction and Events List](#)
- [Planned Seattle](#)

Seattle.gov: Services | Departments | Staff Directory | Mayor | City Council

WSDOT Seattle Area Traffic Map

The screenshot displays the WSDOT Seattle Area Traffic Map website. At the top, there is a navigation bar with links for News, Employment, Good To Go!, Contact Us, and WSDOT Home. The Washington State Department of Transportation logo is on the left, and an E-mail updates link is on the right. Below the navigation bar, there are tabs for Traffic & Cameras, Projects, Business, Environment, and Maps & Data. A search bar is also present.

The main content area is titled "Seattle Area Traffic" and shows a map of the region with traffic conditions as of May 04, 2010, at 3:03 PM PDT. The map includes a legend with categories: Stop and Go (black dot), Heavy (red dot), Moderate (yellow dot), Wide Open (green dot), No Data (white circle), No Equipment (grey circle), Video Clip (yellow camera icon), and Snapshot (black camera icon). The map also highlights "EXPRESS LANES" for I-5 North and I-90 East.

On the left side, there are several navigation menus:

- Seattle Traffic**
 - Seattle Area Home
 - Incidents
 - Travel Times
 - Travel Alerts
 - List of Cameras
 - Best time to leave
 - Mobile Site
 - Lake Washington
 - Have Questions?
- State Travel Info**
 - State View
 - Weather
 - Commute Options
- Local Traffic**
 - Mount Vernon & Stanwood
 - City of Bellevue
 - City of Seattle
 - King County
 - Ferries
 - Tacoma
- Traffic Maps**
 - North
 - South
 - Bridges

On the right side, there are three sections:

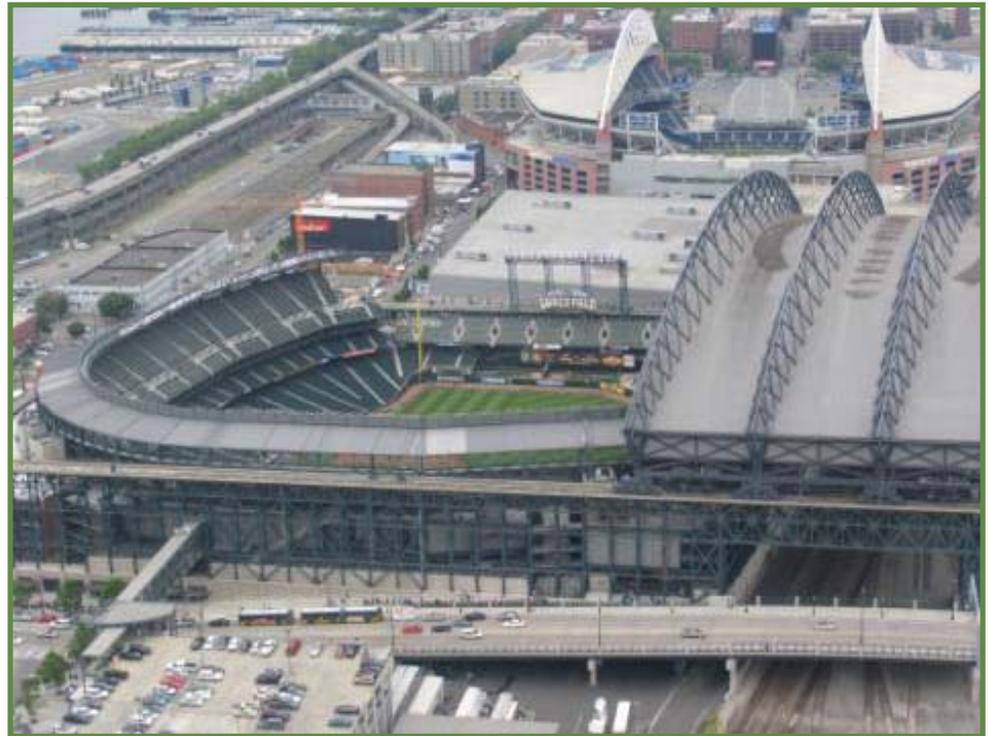
- Traveler Notice**
 - Construction closures around Puget Sound**

Drivers will want to plan ahead for construction that will close lanes on many state highways in the Puget Sound area, including I-5, I-405 and SR 520. [Get the details.](#)
- Seattle Area Alerts** (5/4/2010 3:01 PM)
 - Blocking Incidents**
 - None reported
 - Construction Closures**
 - On SR 515 northbound from SR 516 to SE 240th St the right lane is closed due to roadwork.
 - On I-5 southbound at SR 530 the right lane is closed due to maintenance.
 - On SR 99 southbound from MP 24.5 to MP 23.5 the left lane is closed due to roadwork.
 - On SR 20 eastbound & westbound from MP 134 to MP 174 in Okanogan County all lanes are closed.
 - SR 18 westbound at West Valley Hwy right truck climbing lane closed until further notice
 - Special Events**

At the bottom of the page, there is a "Local intranet" link and a zoom level of 100%.

Construction Coordination Examples

- Ensured the Holgate to King Viaduct Replacement Project had the SR 99 northbound on-ramp (from First Avenue S.) operational in time for the Sounders FC and Mariners seasons.
- Worked with SDOT to schedule closures of I-5 ramps at Mercer Street.



How Do We Respond to Unexpected Challenges?

- 24-hour hotline and response teams from multiple agencies.
- Constant communication.
- Work with the media and utilize communication tools to get the word out quickly.



S. King Street to Roy Street Viaduct Replacement (Central)

- Signed design-build contract with Seattle Tunnel Partners in January.
- Notice to proceed on preliminary design in February.
- Announced proposal to stabilize and support the Western Building during construction.
- Working with property owners on real estate and right of way. Defining temporary and permanent construction easements.
- Working with DPD on noise variance.
- Continuing to work on permits and regulatory approvals.

2010 Cost Estimate	Expenditures Through Feb. 28, 2011
\$1,960.7 million	\$186.9 million

Seattle Tunnel Partners Overview

Joint venture partners

- Dragados USA
- Tutor Perini Corporation

Main subcontractors

- Design: HNTB Corporation* and Intecsa-Inarsa
- Construction: Frank Coluccio Construction* and Mowat Construction*

* *Local companies*

Previous Experience

- International experience on large bore soft ground tunnels.
 - 49.5-foot Madrid M-30 South Bypass Tunnel.
 - 39.4-foot Barcelona Line 9 Metro Extension.
 - 30.8-foot diameter Madrid Metro Line 11 Extension.
- Local and international design experience.



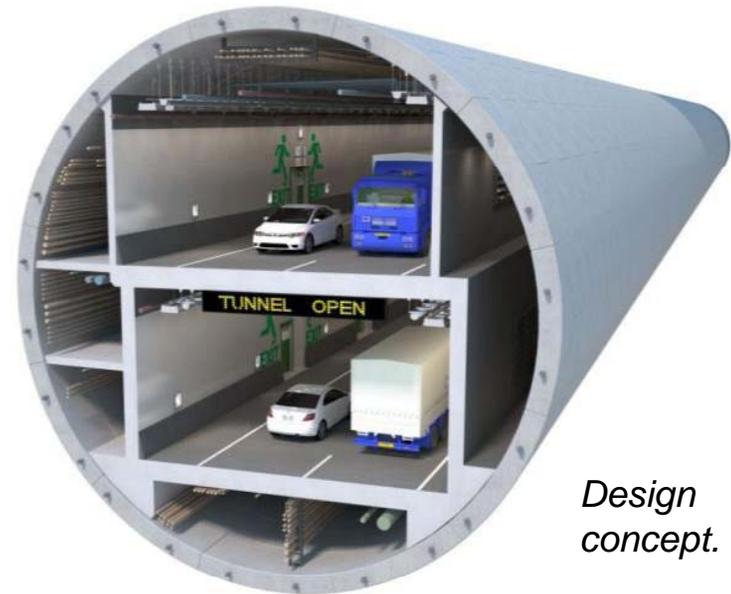
Barcelona Line 9 Metro Extension near La Sagrada Familia

Current Work – Preliminary Design

- Mobilizing the team.
- Supporting environmental review and design.
- Establishing task forces and over-the-shoulder reviews.
- Working on early deliverables.

Next Steps for Proposed Bored Tunnel Alternative

- Publish Final Environmental Impact Statement and receive Record of Decision mid-2011.
- Second notice to proceed to begin construction.
- Continue coordination with Seattle City Light and Seattle Public Utilities regarding relocation and protection of city utility lines.



Design concept.

Transit Investments (Bored Tunnel Recommendation)

- Secured funding and began construction of the Burien Park and Ride expansion.
- Improved Metro's trolley bus network by fully electrifying Route 36 in downtown Seattle.
- Secured federal funding to begin design work on south portal transit pathways to connect SR 99 and Third Avenue transit corridor.

Looking ahead

- Seeking funding for transit service and capital enhancements.

Project Commitment	Expenditures Through March 31, 2011
\$190 million (does not include annual operating costs)	\$8.7

Mercer East

- Utility relocation work underway.
- Completed pipe reaming for installation of Ninth Avenue N. sewer in March 2011.

Looking ahead

- I-5 ramp closures starting weekend of April 16, 2011.
- Continue work on utilities.
- Work on new westbound lanes on north side of Mercer Street.



Project Budget	Expenditures Through Feb. 28, 2011
Mercer East - \$164 million	\$79 million

Mercer East – Ninth Avenue Sewer Work



Mercer West

- Signed agreement with Bill and Melinda Gates Foundation in September 2010.
- Completed feasibility analysis of West Mercer Place.

Looking ahead

- Complete 30 percent design and updated cost estimates in April 2011.
- Environmental review complete in mid 2011.



Project Commitment	Expenditures Through Feb. 28, 2011
Mercer West - \$116 million	\$8 million

Elliott Bay Seawall Project

- Coordinated with the public, Waterfront Seattle, U.S. Army Corps of Engineers, and stakeholder groups to develop range of alternatives.
- Working with the U.S. Army Corps of Engineers in a two-part process to identify the cost effective seawall solution.

Looking ahead

- Presenting project alternatives and cost estimates to Mayor and City Council in April 2011.
- Complete 10 percent design by May 2011.
- Complete Draft Environmental Impact Statement by early 2012.

Project Commitment	Expenditures Through Feb. 28, 2011
\$274 million	\$6 million*

**Excludes expenditures prior to 2009.*

Elliott Bay Seawall – Developing Alternatives



Waterfront Seattle (Central Waterfront Public Spaces and Streets)

- Finalized contract with design team led by James Corner Field Operations.
- Attracted over 1,000 people at opening public event on Feb. 17.
- Coordinated initial waterfront design work with development of seawall alternatives.

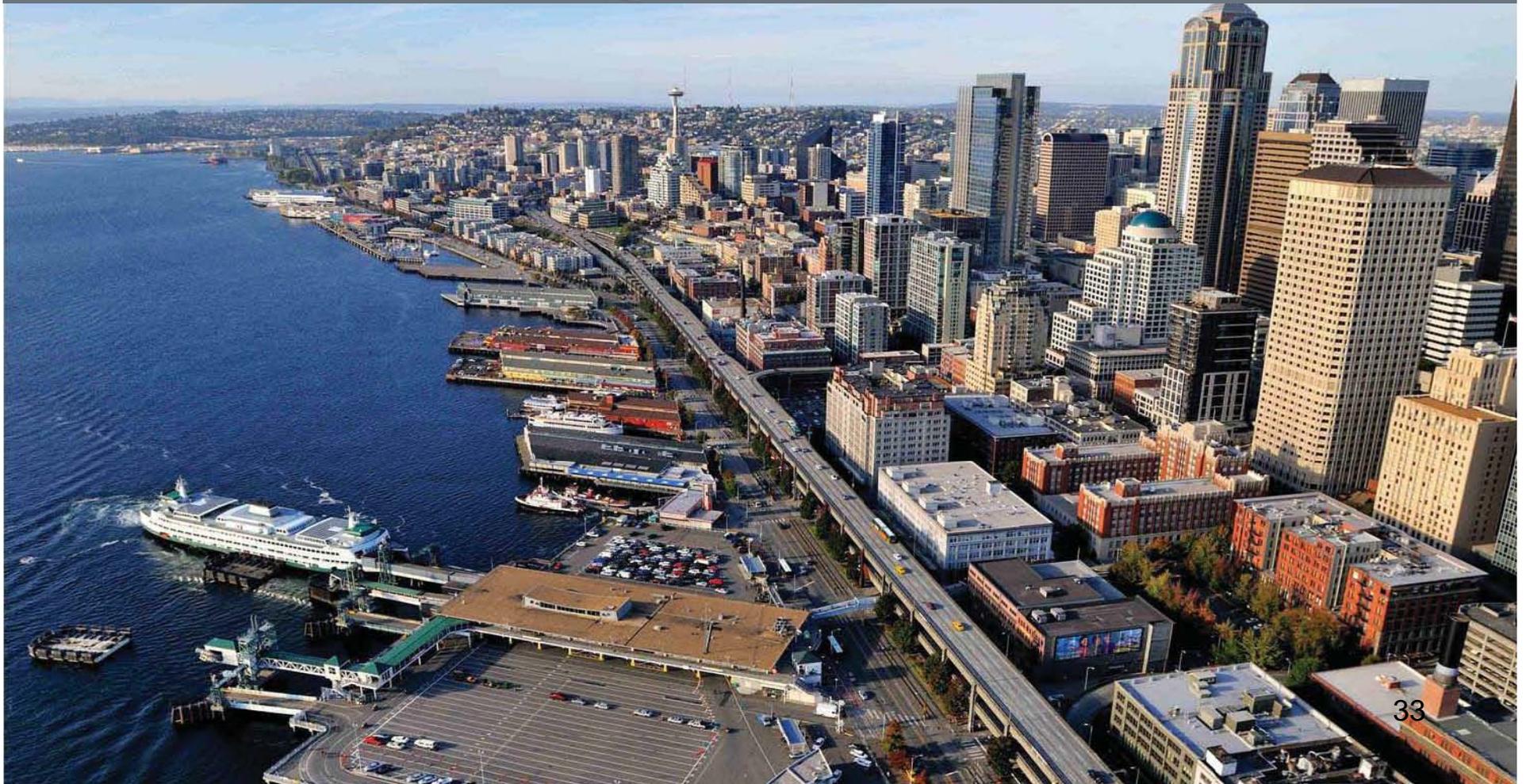
Looking ahead

- Present initial design directions at May 19 public event “Toward a Great Waterfront.”
- Complete framework plan, concept design and initial project estimate by mid 2012.

Project Budget for Public Spaces* <small>* Total project budget includes additional State-funded \$290 m for viaduct demolition and surface street improvements.</small>	Expenditures Through Feb. 28, 2011
\$123 million	\$1 million

Alaskan Way Viaduct & Seawall Replacement Program

Waterfront
Seattle.org



Alaskan Way Viaduct and Seawall Replacement Program



Website:

www.alaskanwayviaduct.org

E-mail:

viaduct@wsdot.wa.gov

Hotline:

1-888-AWV-LINE