

# Alaskan Way Viaduct Replacement Program



**North Portal Working Group**  
**Feb. 2, 2012**

## Meeting Objectives

- Review upcoming construction activities, schedules and potential impacts.
- Discuss how agencies are coordinating to minimize impacts.
- Provide us with feedback on ongoing and completed work.
- Share your perspective on upcoming construction activities and proposed mitigation techniques.
- Help us to distribute information to your groups and the broader community.

## Meeting Guidelines

We ask that members of the working groups:

- Please attend all meetings.
- Represent your constituency rather than personal opinions.
- Remain open-minded.
- Commit to support a process that is open, iterative, and transparent, but that will ultimately lead to decisions by the four agencies.
- Provide updates to your community regarding the work of the group.

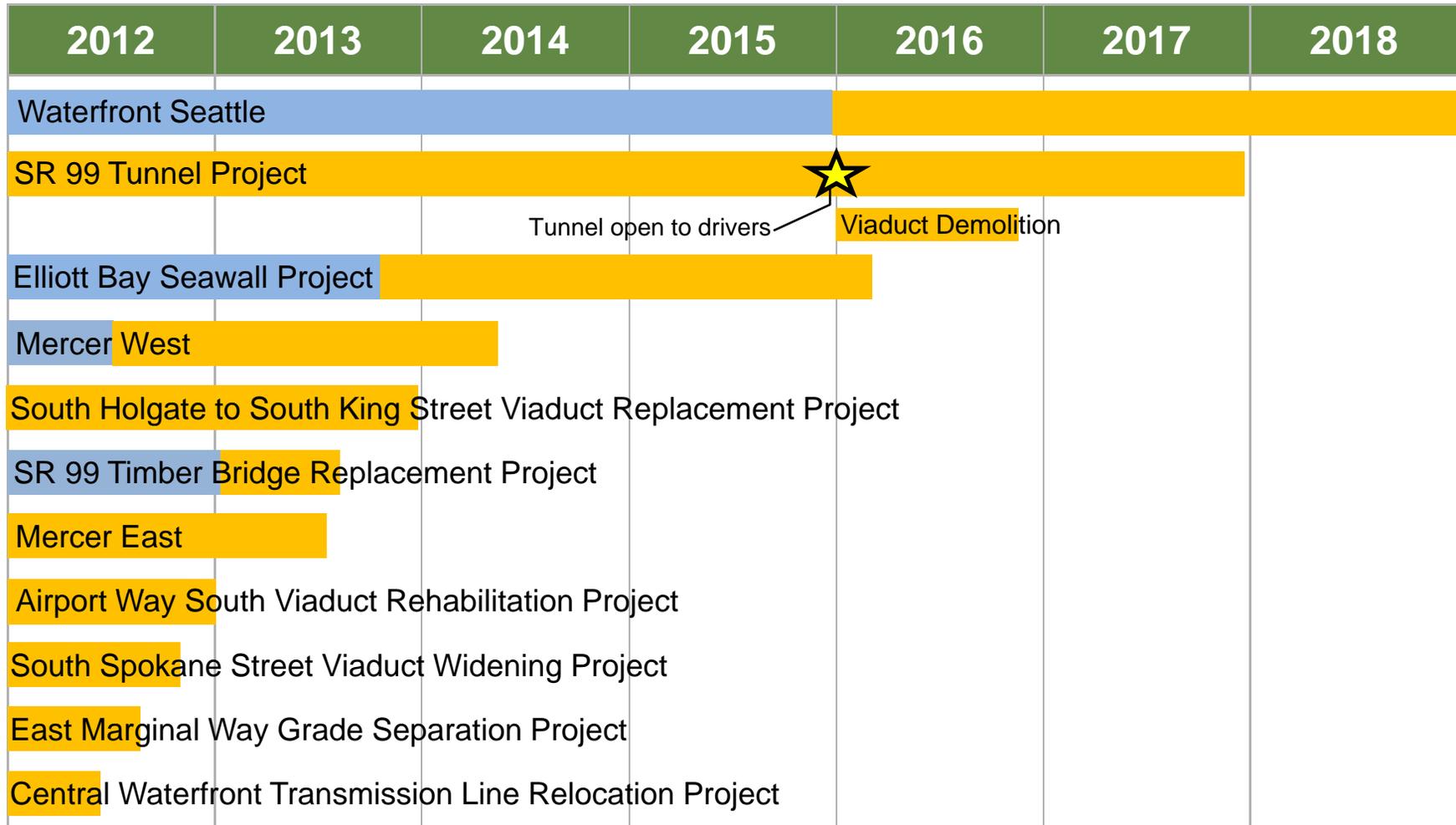
# **Overview of Alaskan Way Viaduct Replacement Program**

## Program Overview

The Alaskan Way Viaduct Replacement Program includes projects led by the Washington State Department of Transportation, City of Seattle, King County and Port of Seattle.



# Program Timeline



Tunnel open to drivers

Viaduct Demolition



Design



Construction

# S. Holgate to S. King Street Project

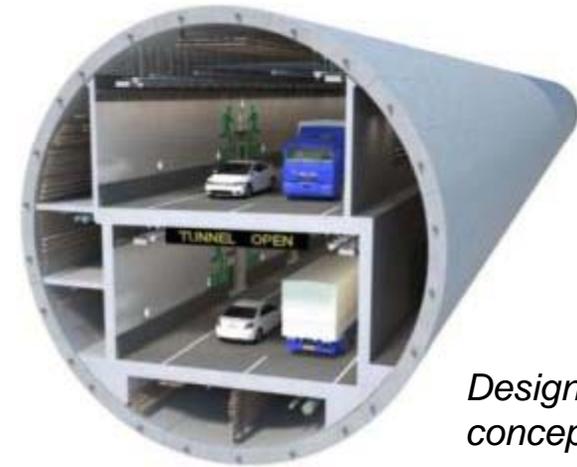


## SR 99 Construction Bypass



## SR 99 Tunnel

- Approximately two miles long.
- Two lanes with eight-foot safety shoulder in each direction.
- State-of-the-art safety systems.



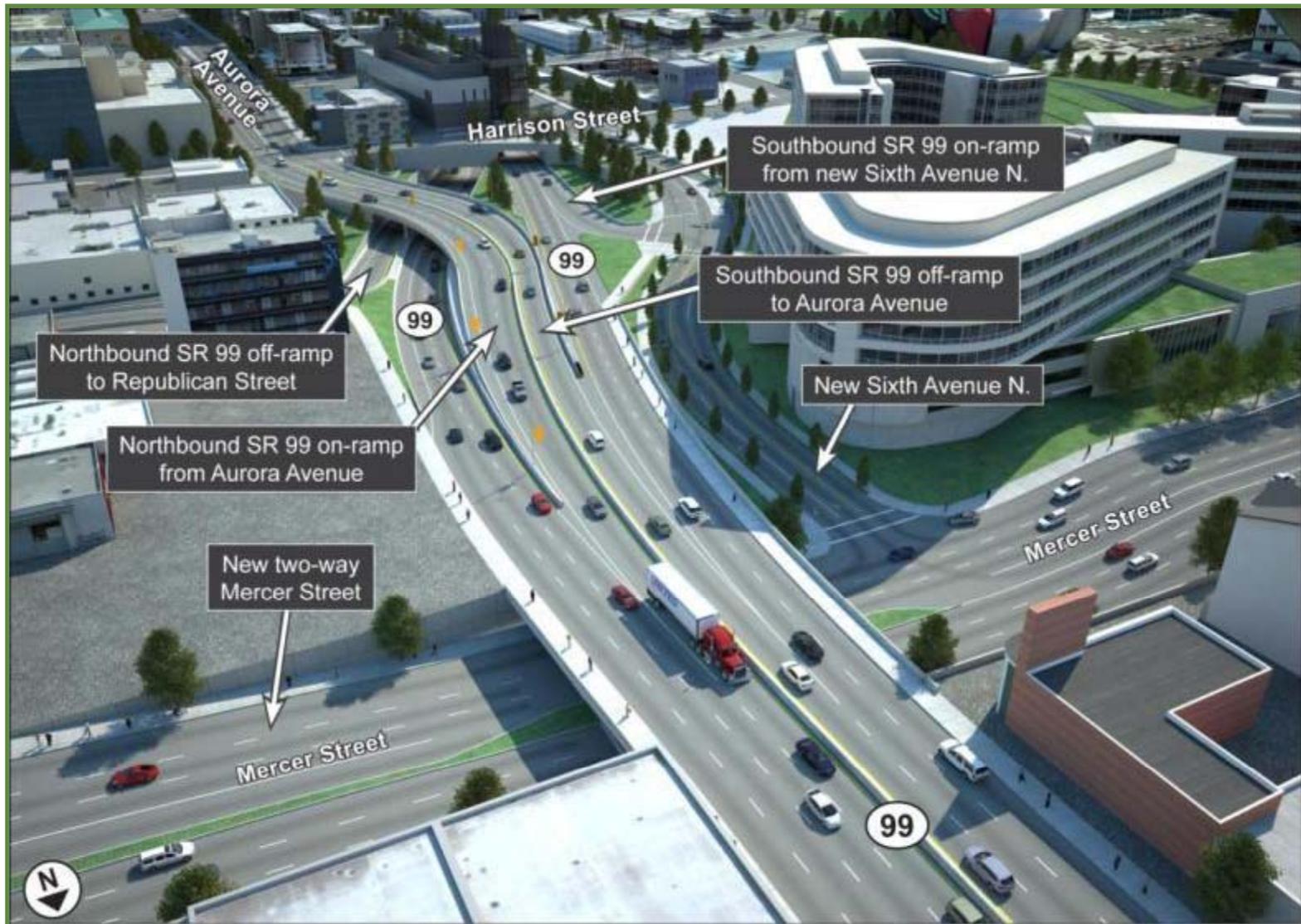
*Design concept.*



# South Portal Design



# North Portal Design



# **Agency Coordination and Construction Overview**

## Agency Coordination

- Meet weekly with partner agencies, private contractors and stakeholders to coordinate construction closures.
- Update agency websites weekly with verified and consistent closure information.
- Provide coordinated construction information to the public.



Coordinated web tool showing waterfront access.

## Working with the Community

- Meet and communicate regularly with project neighbors and stakeholders to coordinate the following:
  - Construction activities and related closures.
  - Parking impacts and mitigation strategies.
  - Bike impacts and detours.
  - Property-specific issues and concerns.
- Provide up-to-date information using inter-agency web tools, weekly emails and proactive media outreach.



# MAP

Milepost Thirty-One



## Coordinated Web Resources

The screenshot shows the Washington State Department of Transportation website. The main heading is "Alaskan Way Viaduct Replacement - Current Work". Below the heading, there is a paragraph of text: "Below is an overview of current construction activities for the Alaskan Way Viaduct Replacement Program, which includes state- and city-led projects. If you have questions regarding this work, call our hotline at 1-800-WAY-LINE (298-5463)." There are two highlighted boxes: one for "Driver information" with links to "Downtown/SODO closures" and "Seattle area traffic" | "City street traffic", and another for "Parking information" stating "Our waterfront access map shows where program construction is affecting parking along the Seattle waterfront. Visit [Your Spot is Here](#) to find affordable parking options." Below this, it says "Last updated: Week of Jan. 23, 2012" and "South of downtown construction". Under "South of downtown construction", there is a sub-heading "Second SR 99 bridge" and a paragraph: "Crews are building foundations for the new northbound SR 99 bridge, which is being built in the footprint of the demolished viaduct. Visit the South Holgate Street to South King Street project [website](#) for details." There is a photograph of a construction site. On the left side, there is a "Program Info" sidebar with links like "Program Home", "Contact Us", "Contracting Opportunities", "Current Work", "Frequently Asked Questions", "Library", "Map", "Milepost 31", "Photos/Videos", "Public Events", and "Timeline". Below that is a "Projects" sidebar with links for "SR 99 Tunnel", "SR 99 South Holgate Street to South King Street", and "Related projects". At the bottom, there is a "Multilingual Information" sidebar with links for "中文 - Chinese", "Español - Spanish", "Tagalog - Filipino", and "Tiếng Việt - Vietnamese".

Current Work  
[www.alaskanwayviaduct.org](http://www.alaskanwayviaduct.org)

The screenshot shows the Seattle.gov website's "City-wide Planned Construction" map. The map displays the city grid with various streets highlighted in different colors to indicate construction impacts. A legend in the bottom right corner explains the symbols: "Street Impact" (red line for Full Street Closure, orange line for Alley Closure, yellow line for Partial Street Closure, green line for Reduced Street Capacity, blue line for No Street Impact, and purple line for Detour Route); "Special Event" (purple line); "Bicycle Facility" (pink line); and "Major Truck Street" (brown line). The map includes street names such as E LYNX ST, E GALER ST, E ALDHA ST, E UNION ST, E CHERRY ST, S MAN ST, S HOLGATE ST, S WALKER ST, S MCCLELLAN ST, S FOREST ST, S LANDER ST, S FLORIDA ST, S ALASKAN WAY, S DEARBORN ST, S JACKSON ST, S WESLEYAN WAY, S 1ST AVE, S 2ND AVE, S 3RD AVE, S 4TH AVE, S 5TH AVE, S 6TH AVE, S 7TH AVE, S 8TH AVE, S 9TH AVE, S 10TH AVE, S 11TH AVE, S 12TH AVE, S 13TH AVE, S 14TH AVE, S 15TH AVE, S 16TH AVE, S 17TH AVE, S 18TH AVE, S 19TH AVE, S 20TH AVE, S 21ST AVE, S 22ND AVE, S 23RD AVE, S 24TH AVE, S 25TH AVE, S 26TH AVE, S 27TH AVE, S 28TH AVE, S 29TH AVE, S 30TH AVE, S 31ST AVE, S 32ND AVE, S 33RD AVE, S 34TH AVE, S 35TH AVE, S 36TH AVE, S 37TH AVE, S 38TH AVE, S 39TH AVE, S 40TH AVE, S 41ST AVE, S 42ND AVE, S 43RD AVE, S 44TH AVE, S 45TH AVE, S 46TH AVE, S 47TH AVE, S 48TH AVE, S 49TH AVE, S 50TH AVE. The map also shows Lake Washington and the waterfront area.

Transportation Construction Map  
[www.seattle.gov/transportation](http://www.seattle.gov/transportation)

# **North Portal Construction Simulation**

# North End Construction Overview



- A** Rebuild Mercer Street lanes
- B** Relocate utilities near north portal
- C** Mobilize construction crews at north portal
- D** Demolish building at 330 Sixth Avenue North

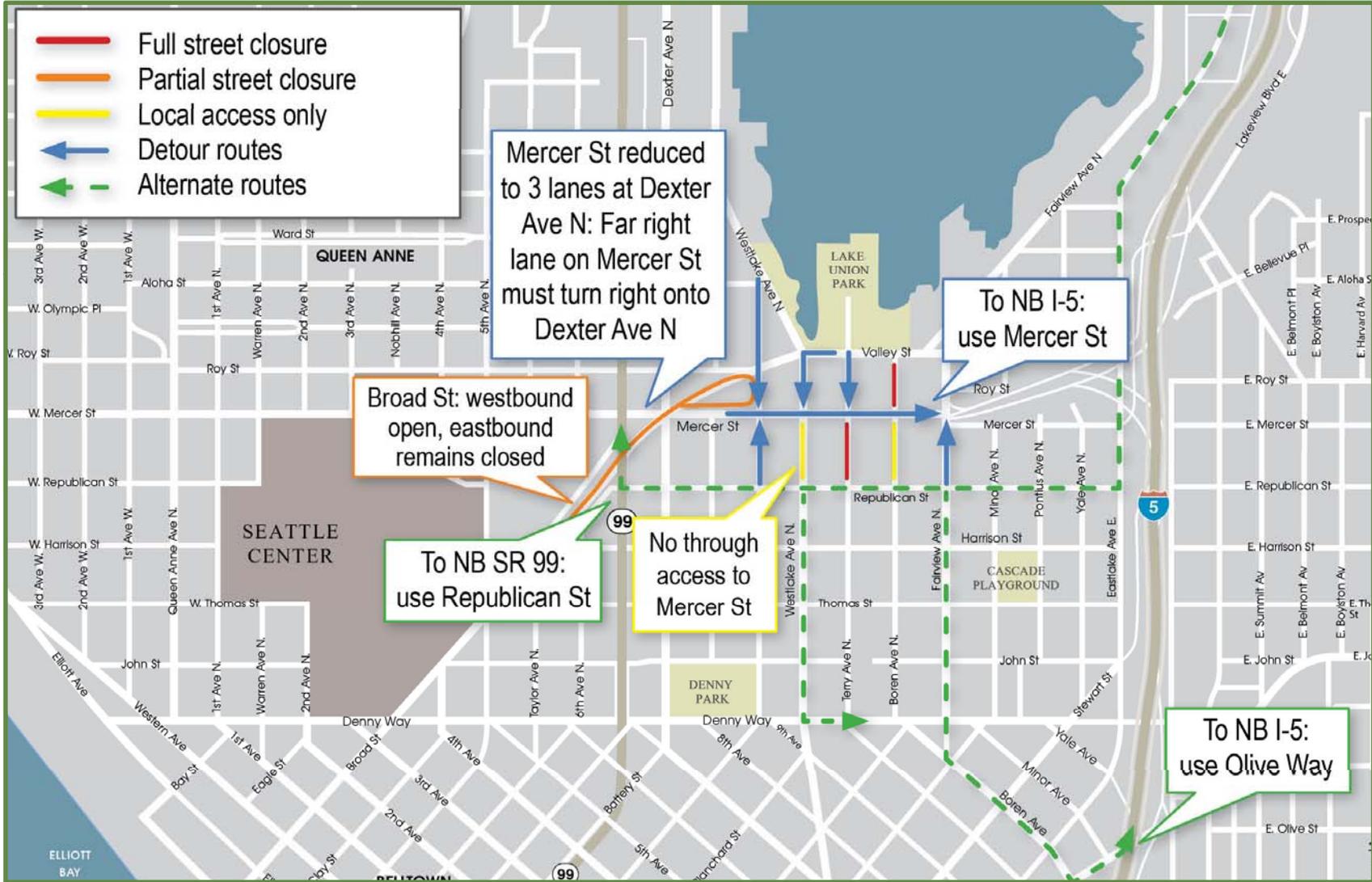
A

## Rebuild Mercer Street Lanes



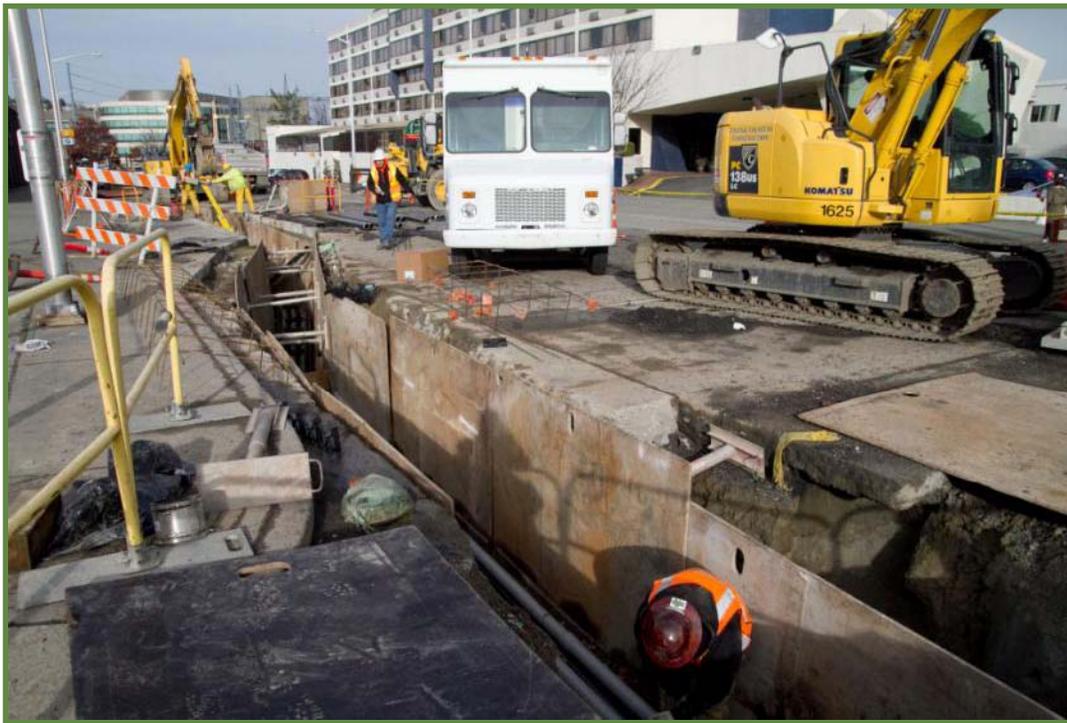
- January 2012 to late 2012.
- Eastbound traffic shifts to new Mercer Street lanes while crews rebuild existing lanes.
- Access to Mercer Street closed from the south at Terry and Boren avenues, and either Westlake or Ninth avenues.
- Some access restrictions on Fairview Avenue North between Mercer and Harrison streets.

# A Detour to Northbound I-5





## **B Relocate Utilities Near North Portal**



- December 2011 to December 2012
- Current work will require intermittent lane closures and temporary parking restrictions on Taylor Avenue North, John Street and Aurora Avenue North.

## © Mobilize Construction Crews at North Portal



- No current SR 99 or city streets closures.
- Excavation work for tunnel boring machine receiving pit will begin early summer 2012.

## **D Demolish Building at 330 Sixth Avenue North**



- Demolition begins early 2012.
- No current SR 99 or city streets closures.

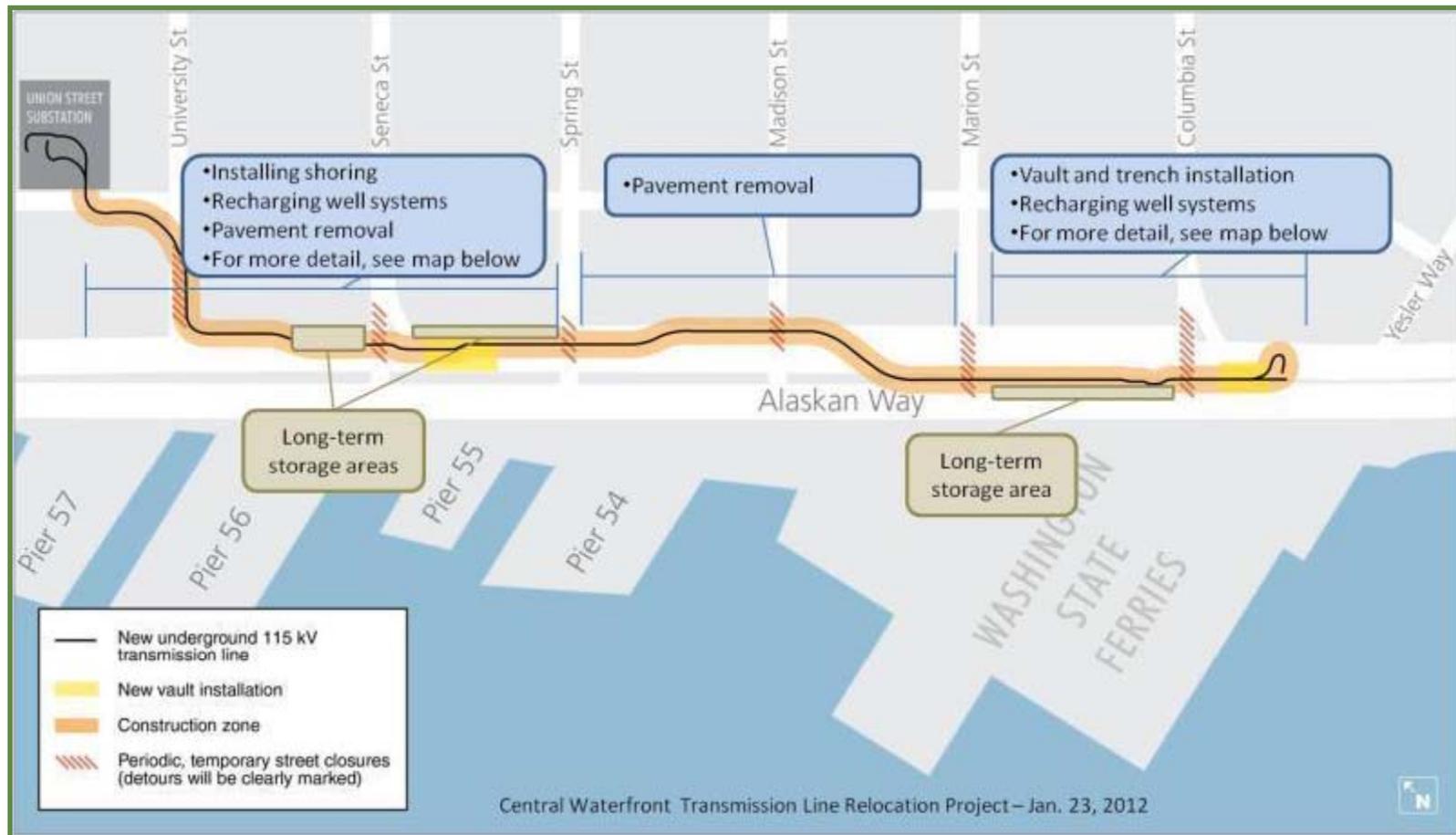
# Central Waterfront Construction Overview



- A** Relocate utility lines along waterfront
- B** Relocate utility lines south of Yesler Way
- C** Viaduct strengthening and micropile installation
- D** Widen Alaskan Way between Yesler Way and Spring Street

- E** Build new Alaskan Way detour under the viaduct
- F** Build SR 99 tunnel launch pit

## A Relocate Utility Lines Along Waterfront



- Project complete in April 2012.
- Intermittent closures on side streets. Alaskan Way remains open.

## **B Relocate Utilities South of Yesler Way**



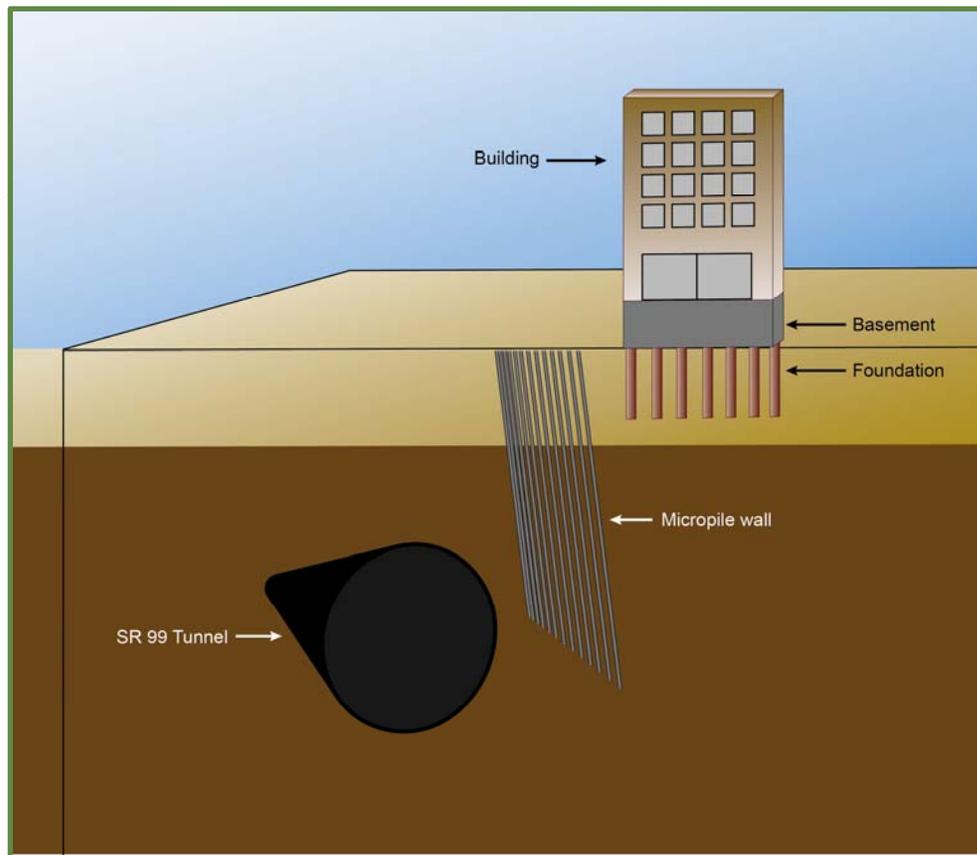
- January to December 2012.
- Road under the viaduct between South Main Street and Yesler Way closed through May 2012.

## © Viaduct Strengthening



- March to August 2012.
- Crews will reinforce sections of the viaduct to withstand limited settlement due to tunneling.
- Road under the viaduct between South Main Street and Yesler Way closed through May 2012.

## © Micropile Installation



- February to June 2012.
- Crews will install a row of steel pipes to limit ground movement during tunneling.
- Road under the viaduct between South Main Street and Yesler Way closed through May 2012.

## D Widen Alaskan Way



- March to April 2012.
- Intermittent overnight and weekend lane closures.

## E Alaskan Way South Detour



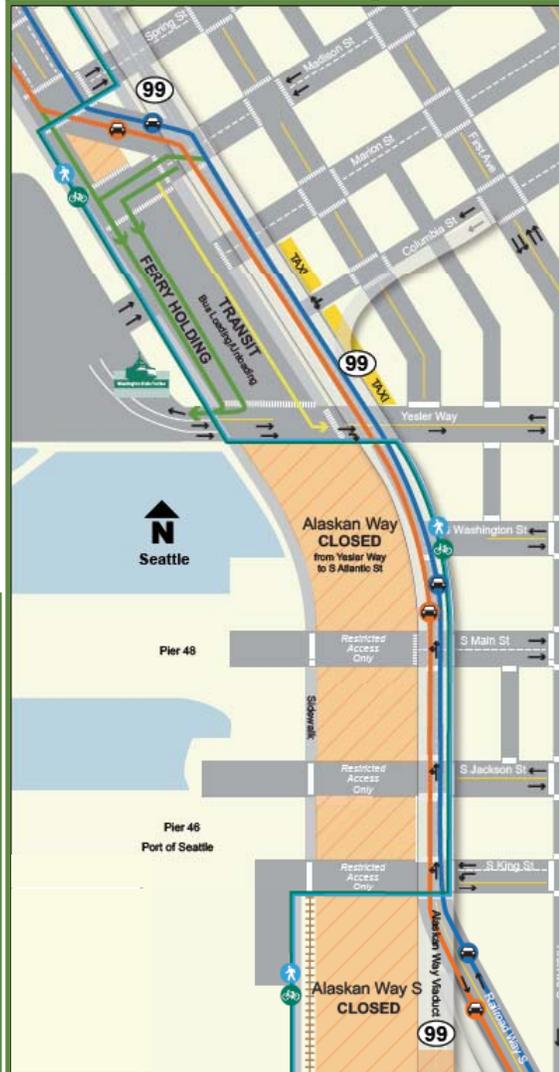
### Legend

-  Northbound motor vehicle route
-  Southbound motor vehicle route
-  Bicycle/ Pedestrian route
-  Pedestrian route
-  Road closure/ work zone

- Current detour opened January 2012.
- Alaskan Way South closed from South Atlantic to South Main streets.
- Parking removed under the viaduct between South King and South Main streets.

## E Alaskan Way Detour

May 2012 through 2013



**Legend**

- Ferry Holding
- Transit Only
- Northbound motor vehicle route
- Southbound motor vehicle route
- Bicycle/ Pedestrian route
- Road closure/ work zone

- New detour opens in May 2012.
- Alaskan Way South closed from South Atlantic Street to Yesler Way.
- Road under the viaduct closed in stages between South Main and Spring streets.

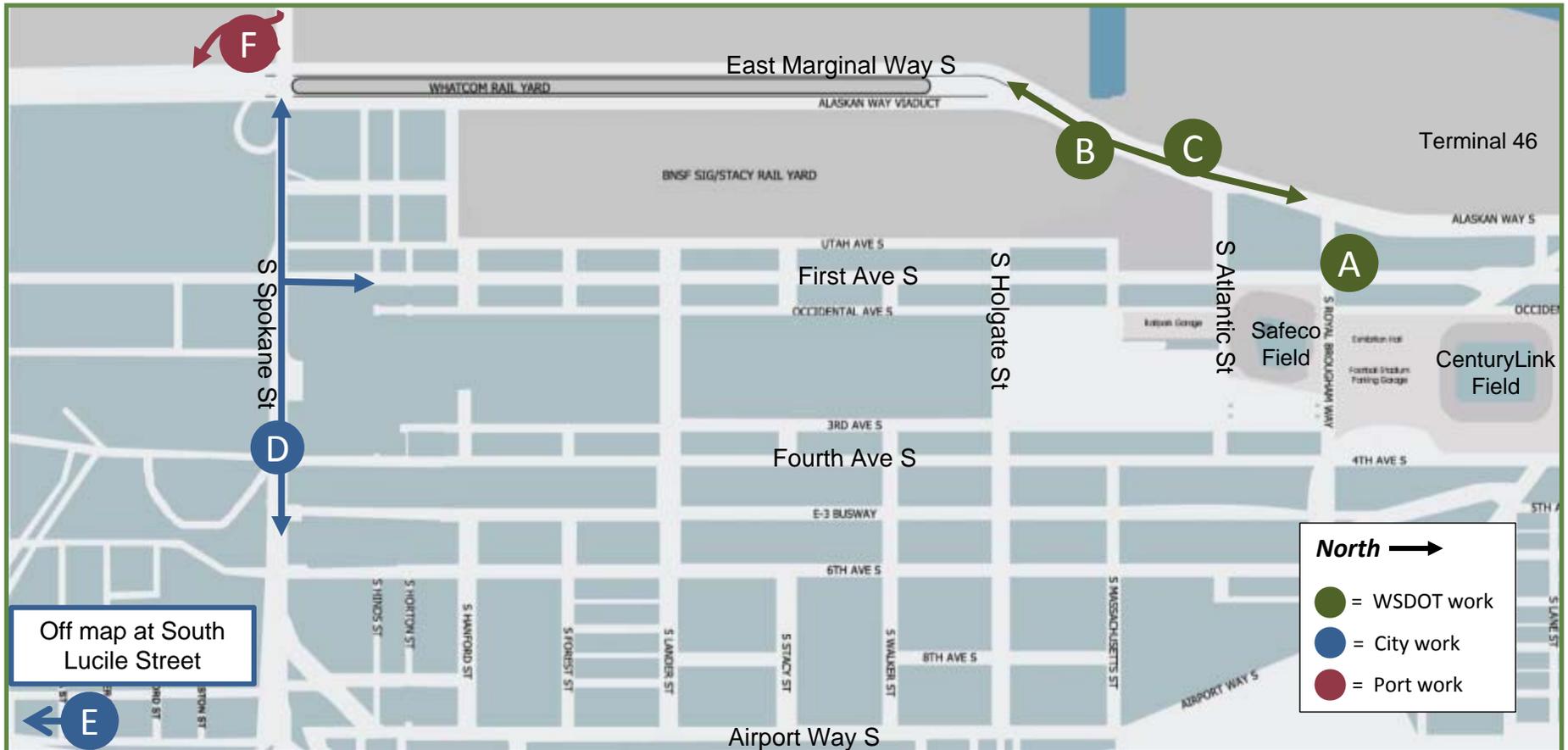
## F Build SR 99 Tunnel Launch Pit



- January 2012 to mid-2013.
- Initial work includes installing piles for launch pit support walls.
- No current SR 99 or city street closures.

# South Portal Construction Simulation

# South End Construction Overview



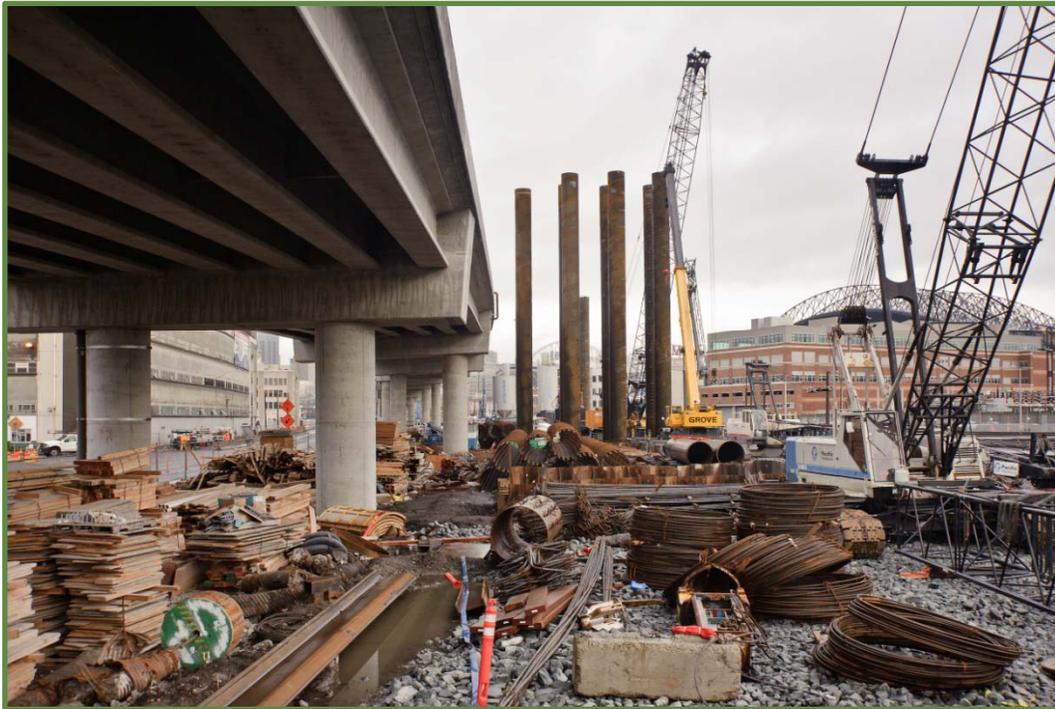
- A** Relocate utilities
- B** Build second SR 99 bridge and South Atlantic Street overcrossing
- C** Rebuild East Marginal Way South roadway and sidewalk
- D** Rebuild roadway on South Spokane Street viaduct
- E** Rebuild Airport Way South viaduct
- F** Finish East Marginal Way overcrossing

## A Relocate Utilities Near South Royal Brougham Way



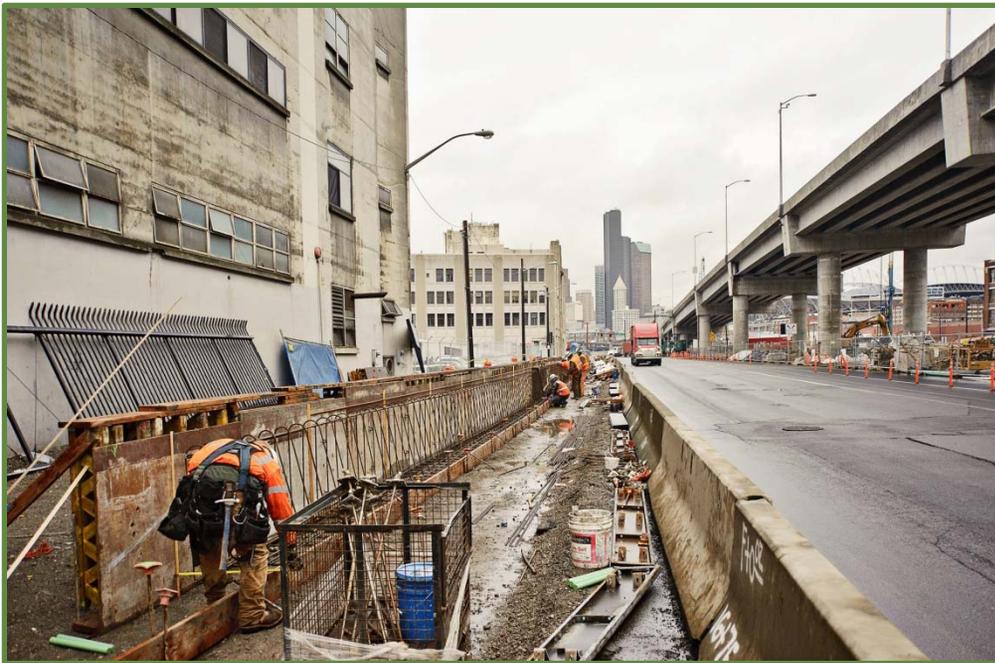
- February to December 2012.
- Intermittent overnight lane closures on northbound on-ramp to SR 99 at South Royal Brougham Way.

## **B Build Second SR 99 Bridge**



- November 2011 to mid-2013.
- South Atlantic Street overcrossing work begins summer 2012.
- Several overnight closures of SR 99 anticipated later this spring.

## © Rebuild East Marginal Way South



- December 2011 to spring 2012.
- Lane reductions between South Atlantic and South Massachusetts streets.
- Bicycle and pedestrian traffic detoured to shared-use path on east side of street.

## C Bicycle and Pedestrian Detour

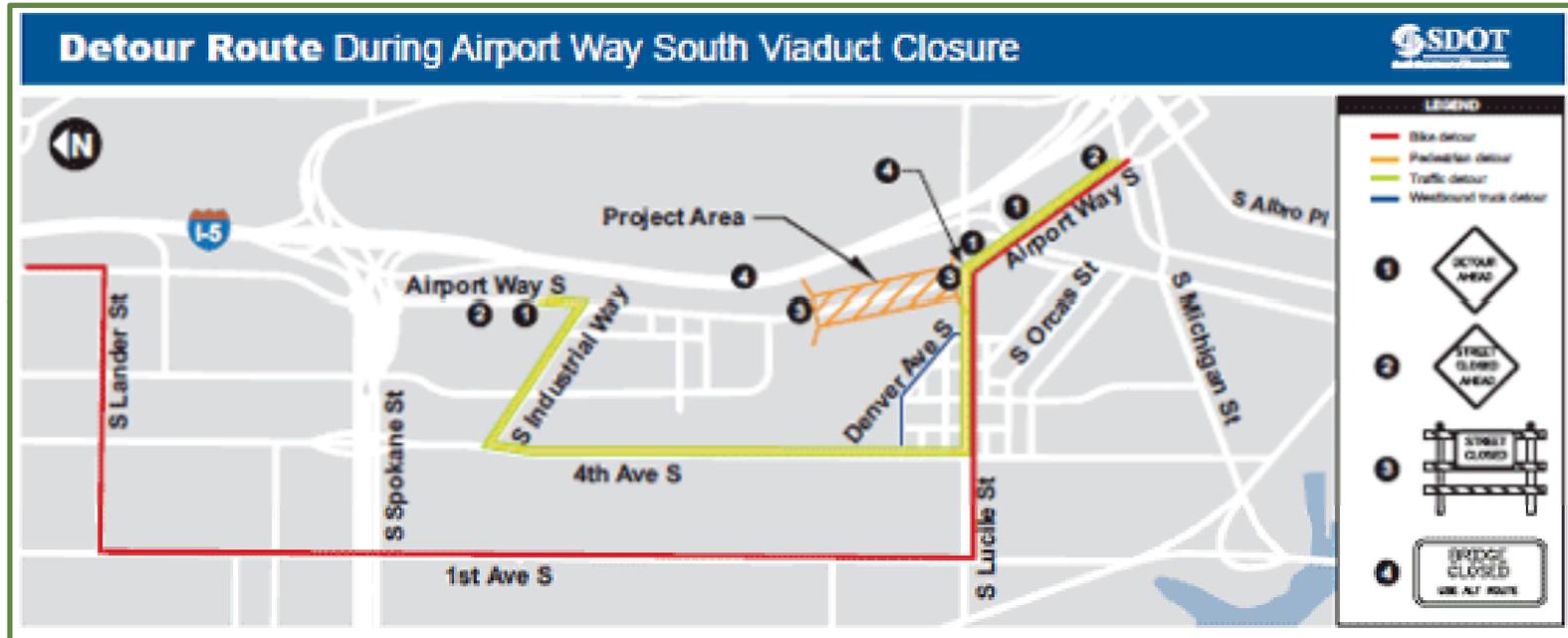


## **D Rebuild South Spokane Street Viaduct**



- Westbound traffic was shifted to new bridge deck in December.
- Additional traffic shifts will be implemented in the coming months in order to finish the project.
- Combined westbound on / off ramp at First Avenue South projected for spring completion, although on-ramp portion not expected to open until summer.
- Substantial project completion currently expected this summer.

## E Rebuild Airport Way South Viaduct



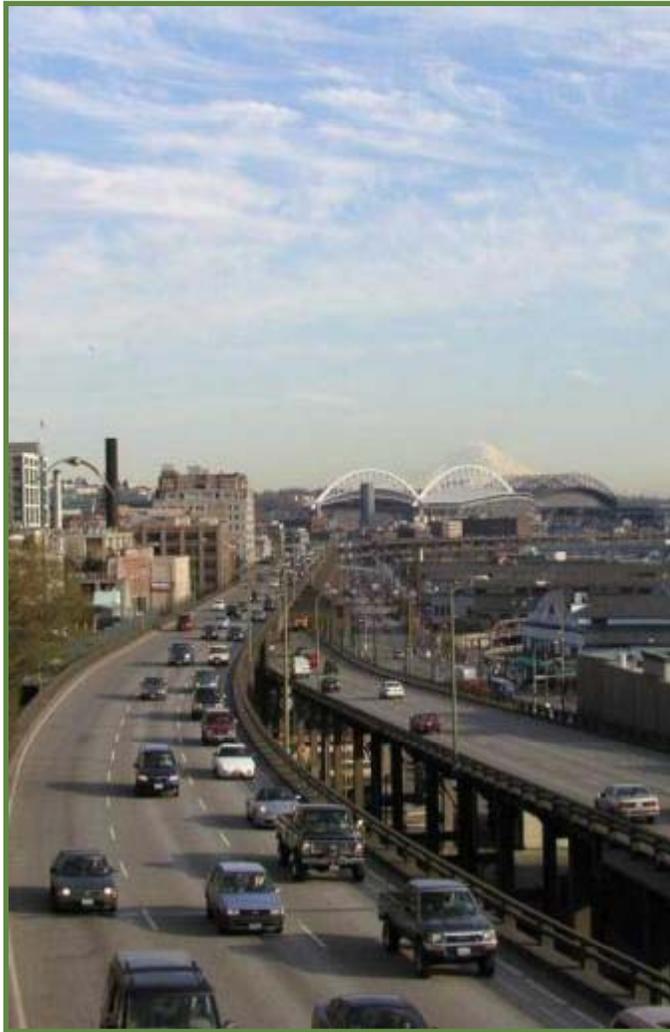
- November 2011 to early 2013.
- Current work includes removal of main span girders and demolition of bridge approach.
- Airport Way South closed between South Lucile and South Edmunds streets.

## F East Marginal Way Overcrossing



- Project will be complete in February 2012.

## Alaskan Way Viaduct Replacement Program



### **Website:**

[www.alaskanwayviaduct.org](http://www.alaskanwayviaduct.org)

### **Email:**

[viaduct@wsdot.wa.gov](mailto:viaduct@wsdot.wa.gov)

### **Hotline:**

1-888-AWV-LINE