

Alaskan Way Viaduct Replacement Program



South Portal Working Group
May 2, 2012

South End Construction Overview



Off map at South Lucile Street

- A** Build tunnel launch pit
- B** Build second SR 99 bridge and South Atlantic Street overcrossing
- C** Rebuild East Marginal Way South roadway
- D** Rebuild roadway on South Spokane Street viaduct
- E** Rebuild Airport Way South viaduct
- F** East Marginal Way overcrossing - complete

A Build SR 99 Tunnel Launch Pit



- January 2012 to mid-2013.
- Current work includes installing secant piles for launch pit support walls.

A South End Truck Traffic



B Build Second SR 99 Bridge



- November 2011 to late 2012.
- Current work includes setting girders for new bridge.



B Build South Atlantic Street Overcrossing



Image from south portal construction simulation showing construction in 2013. Green: construction. Orange: staging area.

- Mid-summer 2012 to late 2013.
- Allows traffic to bypass railroad tracks at South Atlantic Street.

© Rebuild East Marginal Way South



- December 2011 to late spring 2012.
- Repaving both directions of the roadway.
- One lane of traffic open each direction between South Atlantic and South Massachusetts streets.
- Bicycles can use shared-use path on west side of street.

Installed Exit Sign on SR 99

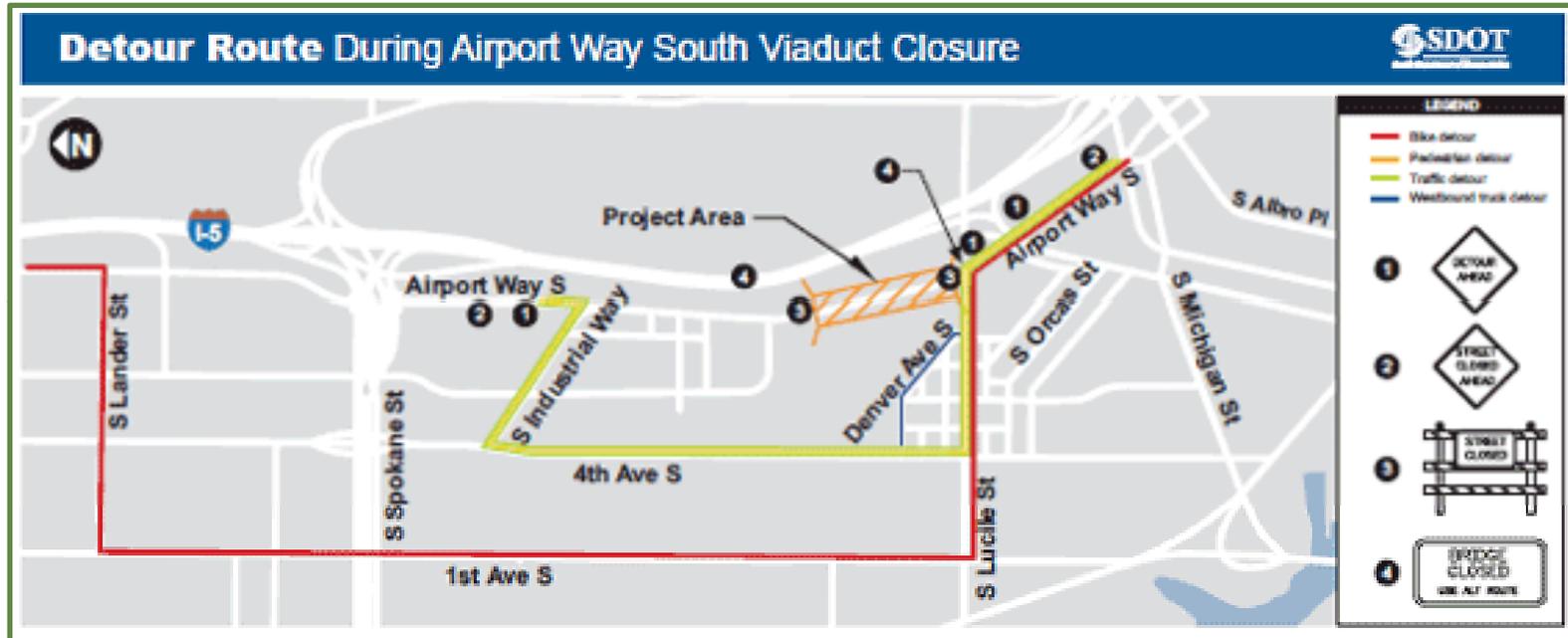


D Rebuild South Spokane Street Viaduct



- Eastbound traffic is now temporarily on the new bridge deck along with westbound traffic while the old bridge deck is repaired and repaved.
- Multiple traffic shifts still ahead, but two lanes will be maintained eastbound and either 1st or 4th Avenue Off-Ramps will be open.
- Combined westbound on / off ramp at 1st Avenue South projected for spring completion, although with both west- and eastbound traffic on the new structure, the on-ramp portion not expected to open until late summer.
- Project currently expected to reach substantial completion late this summer.

E Rebuild Airport Way South Viaduct



- The bridge is closed completely to traffic until the end of 2012.
- Current work includes removal of main span girders, demolition of bridge approach, and replacement of the approaches with a MSE wall structure.
- Airport Way South closed between South Lucile and South Edmunds streets.

F Open East Marginal Way Overcrossing



Working group member feedback

Central Waterfront Construction Overview



A Build new Alaskan Way detour

B Widen Alaskan Way for on-street parking between Spring and Pike streets

C Reinforce the viaduct and stabilize buildings

D Relocate utility lines along waterfront

A Alaskan Way Today

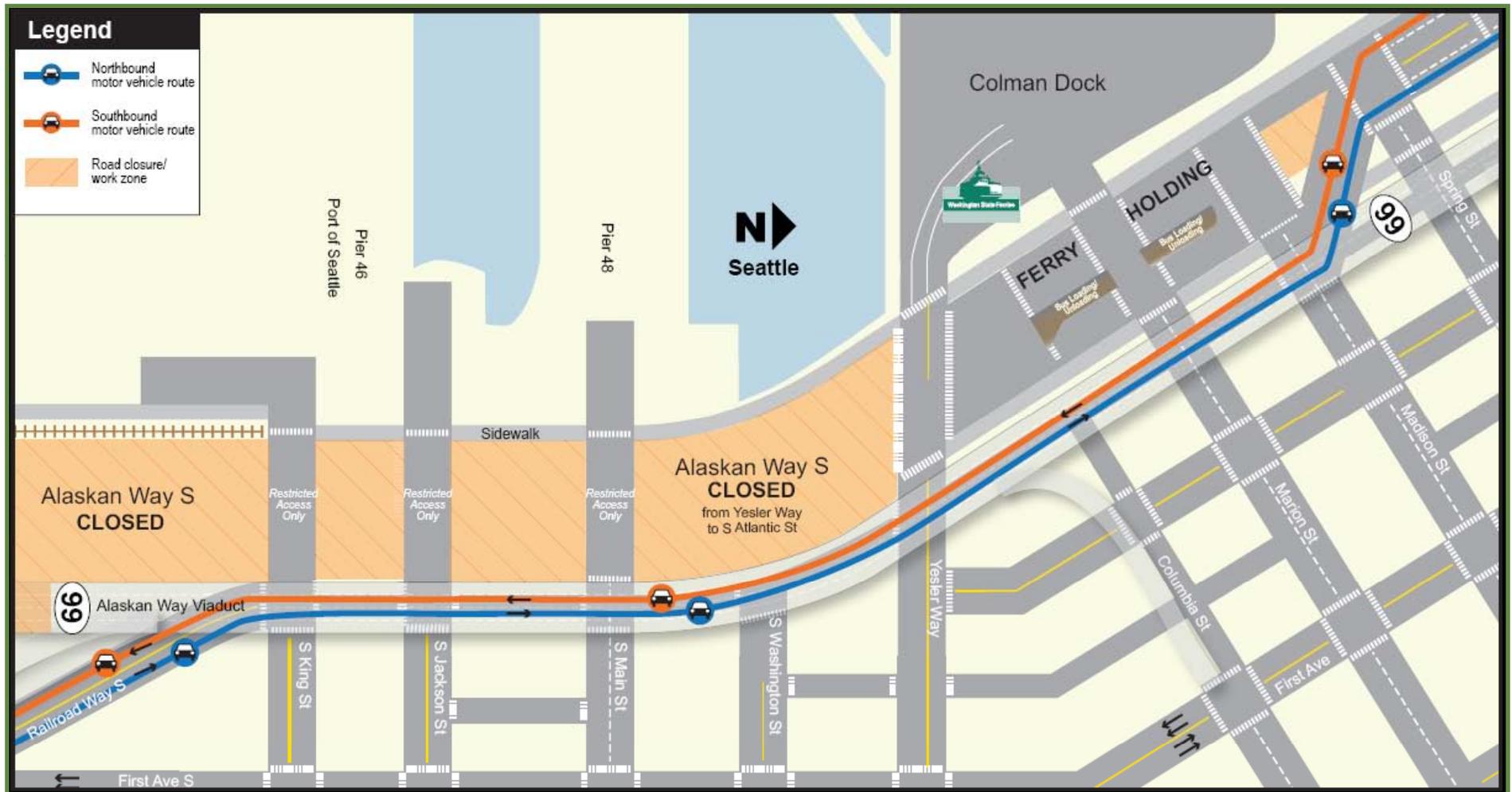


A Upcoming Changes to Alaskan Way

- Alaskan Way rerouted south of Spring Street.
- Traffic switch happens second week of May 2012 through at least early 2014.
- Keeps traffic moving along the waterfront during construction.

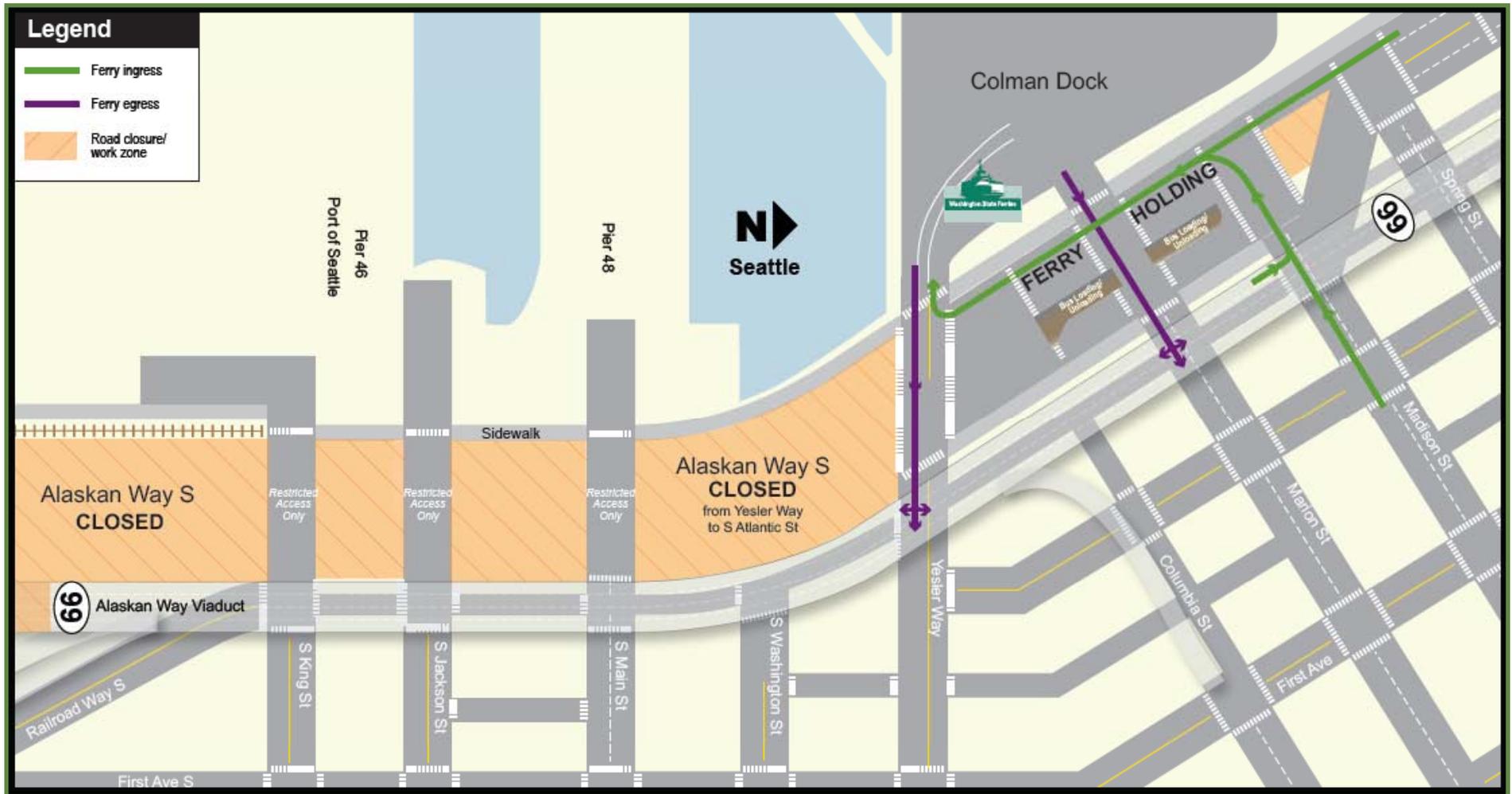


A North/South Movements



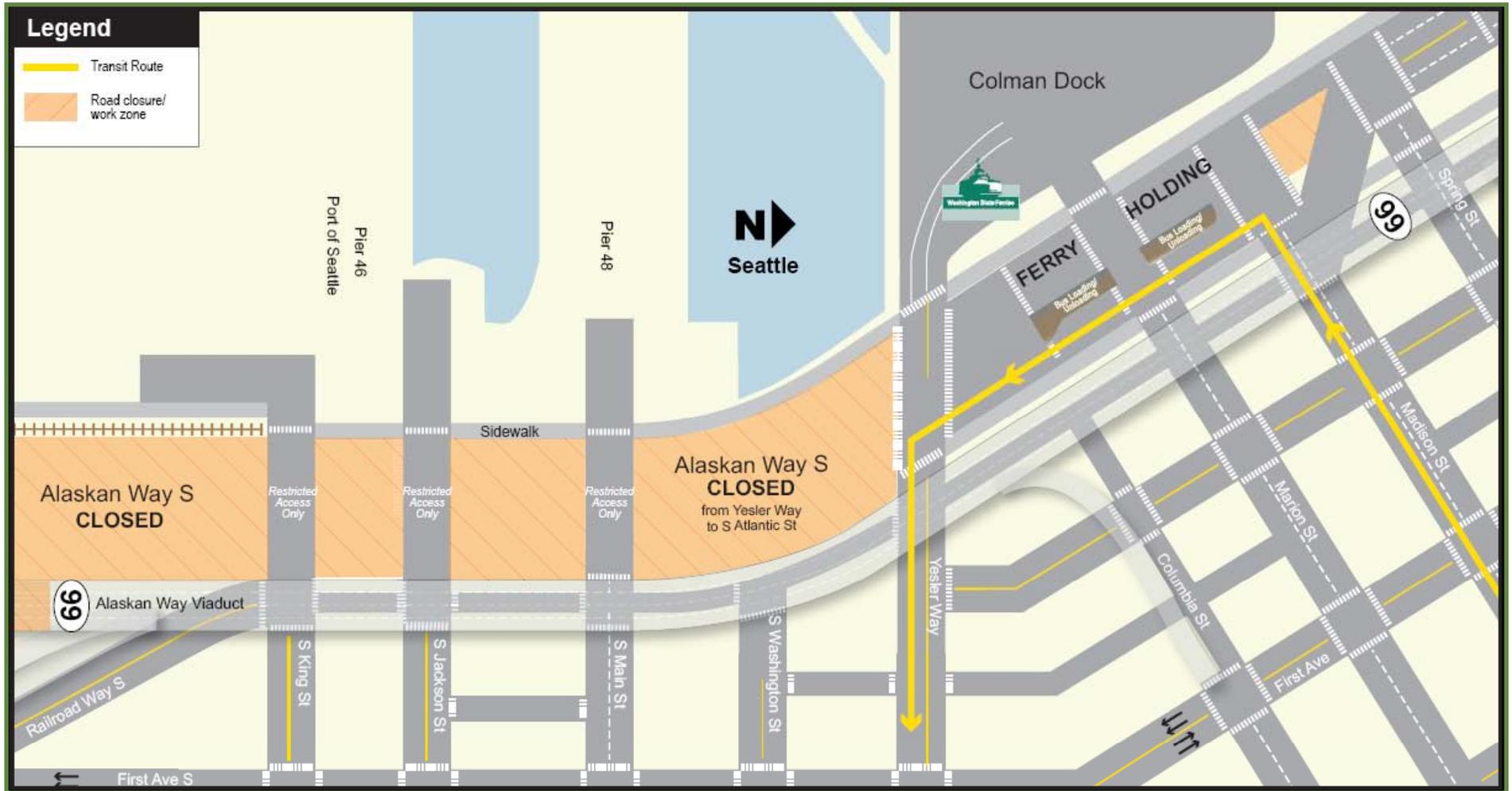
May 2012 through early 2014

A East/West Movements



May 2012 through early 2014

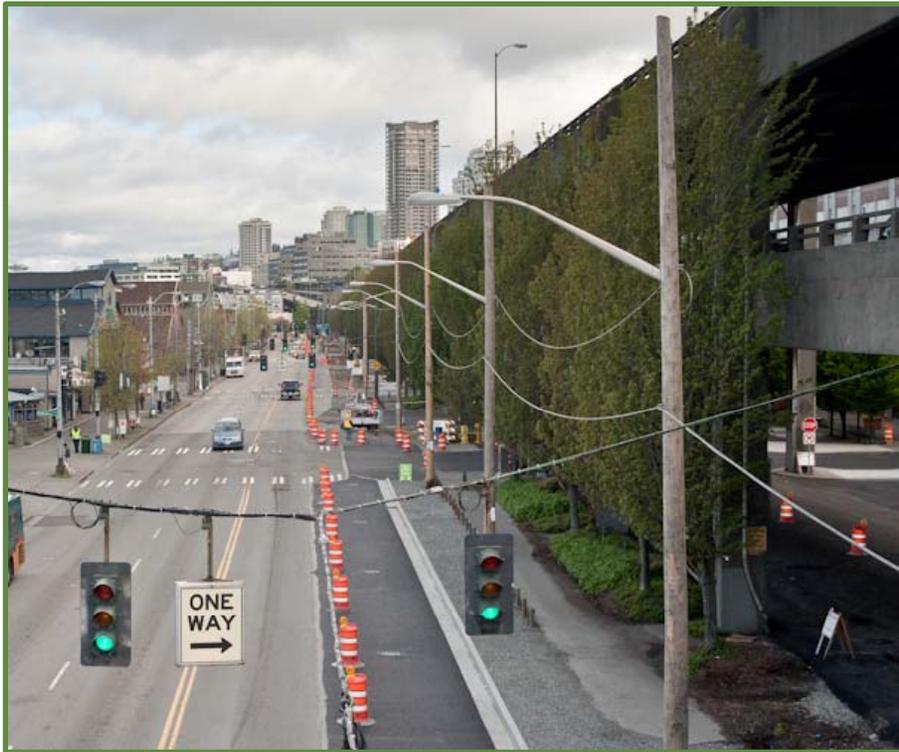
A Transit Movements



May 2012 through early 2014

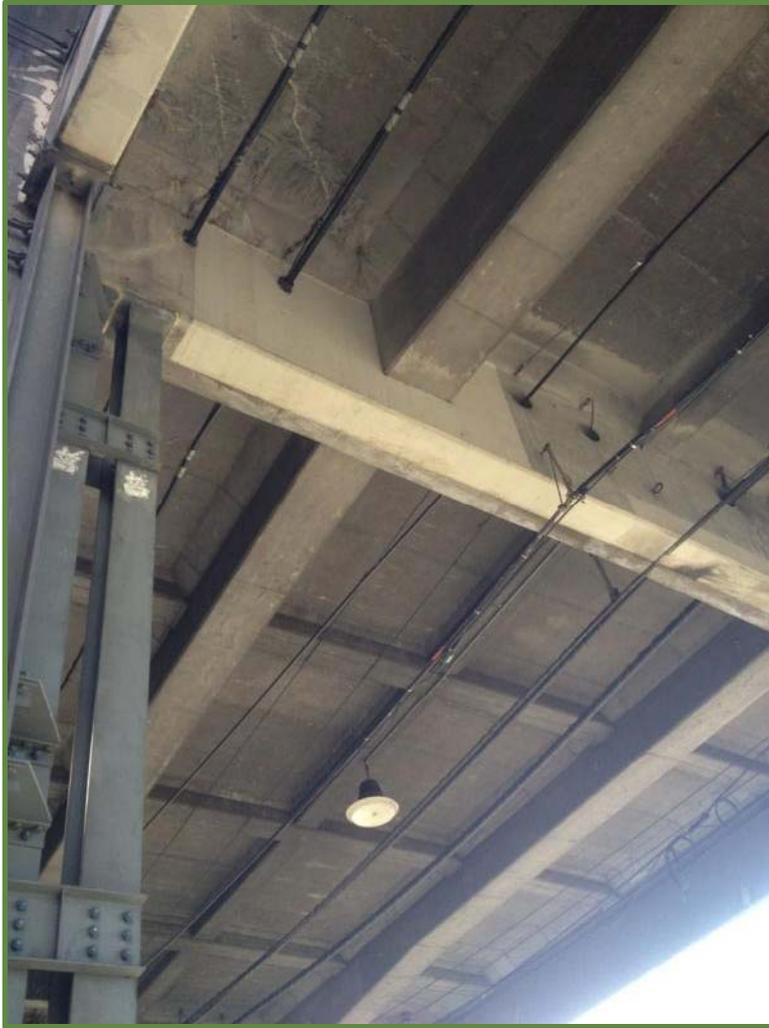
Drive-through Simulation

B Widen Alaskan Way for Street Parking



- April to second week of May 2012.
- Adding approximately 60 on-street parking spots between Spring and Pike streets.
- Northbound right lane of Alaskan Way closed between Spring and Pike streets during construction.

© Reinforce the Viaduct



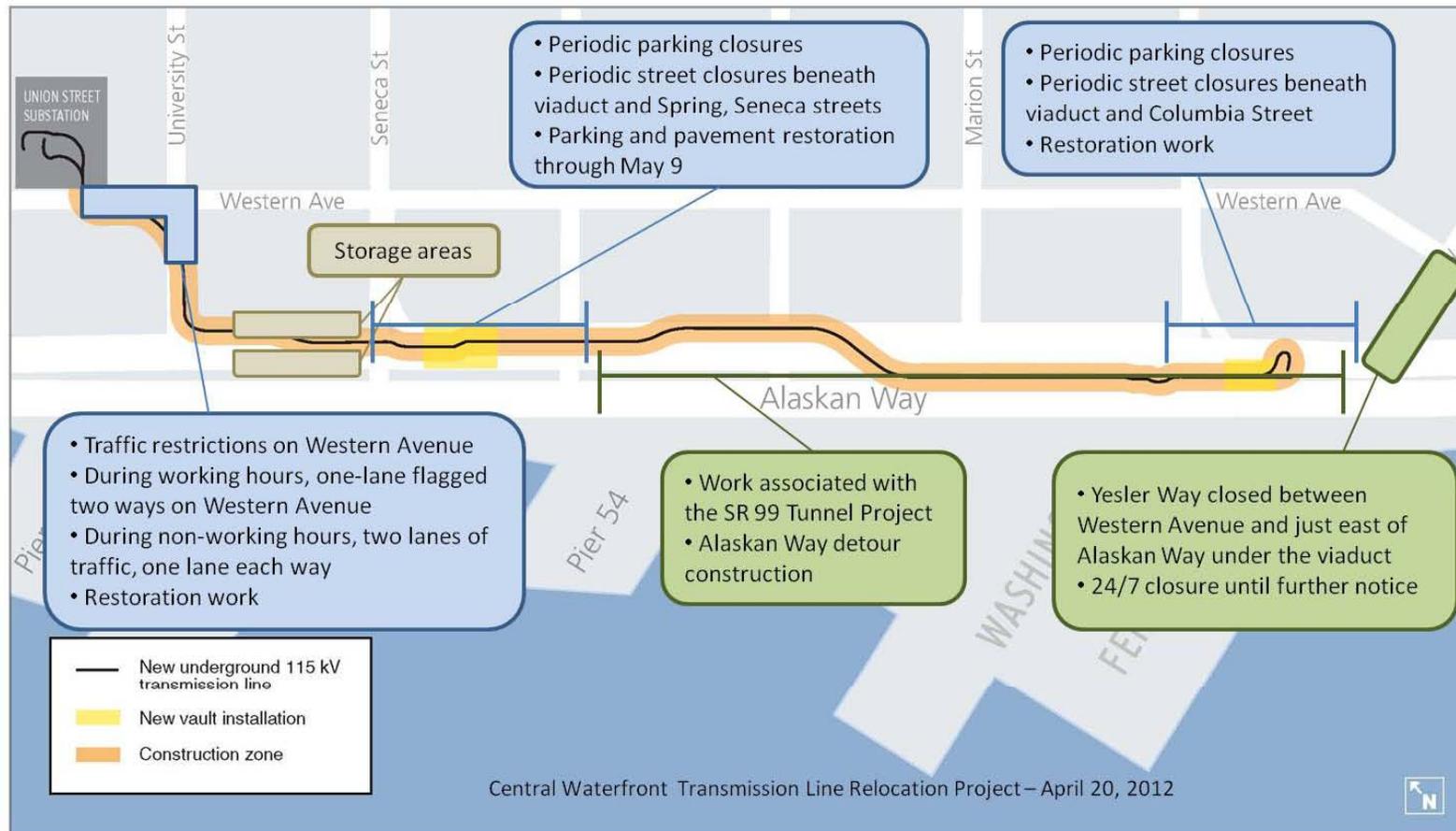
- Intermittent work from March to early 2013.
- Wrap sections of concrete in protective reinforcing fiber.
- Alaskan Way Viaduct will close weekend of May 18-21.

© Install Micropile Walls



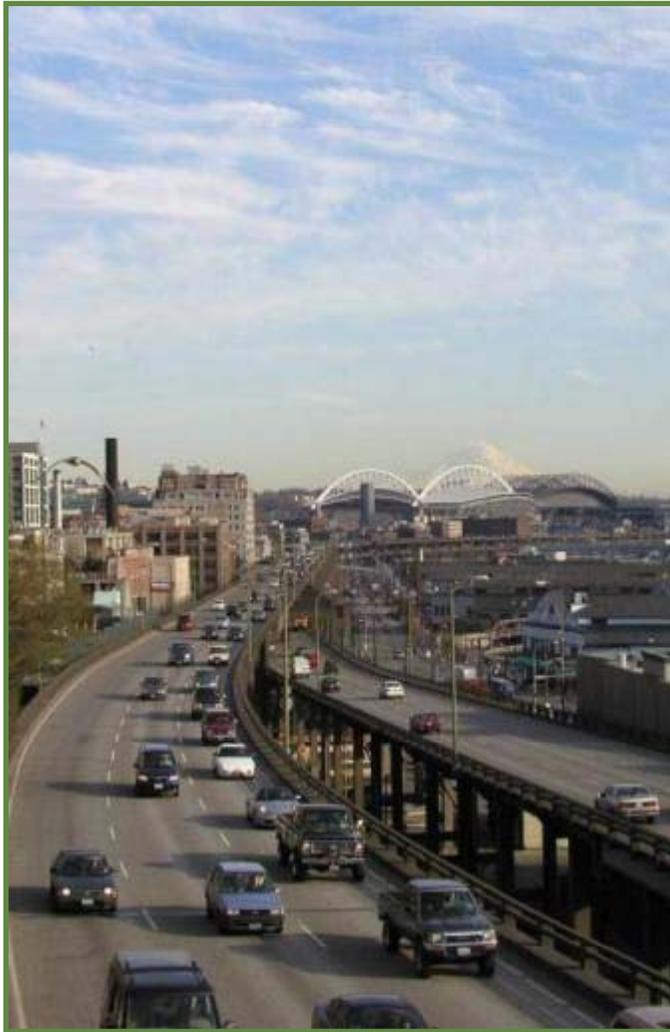
- February to late summer 2012.
- Between South Washington and Columbia streets.
- Yesler Way closed at Alaskan Way through second week of May 2012.

D Relocate Utility Lines Along Waterfront



- Seattle City Light's Transmission Line Relocation Project completed all duct and vault installation in late April. Remaining work, including pavement and parking restoration, will take place through the end of May.

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