

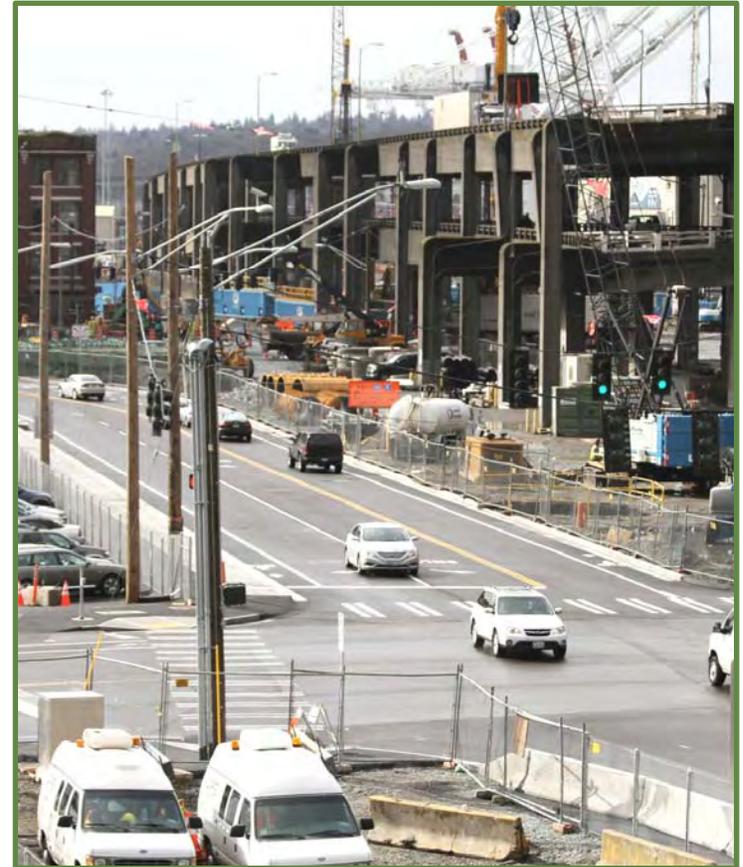
Alaskan Way Viaduct & Seawall Replacement Program



South Portal Working Group
June 1, 2011

Agenda

- Program updates.
- Holgate to King viaduct replacement construction update.
- Mercer West update.
- Bored tunnel alternative update:
 - Project delivery.
 - Upcoming milestones.
 - Proposed construction schedule.



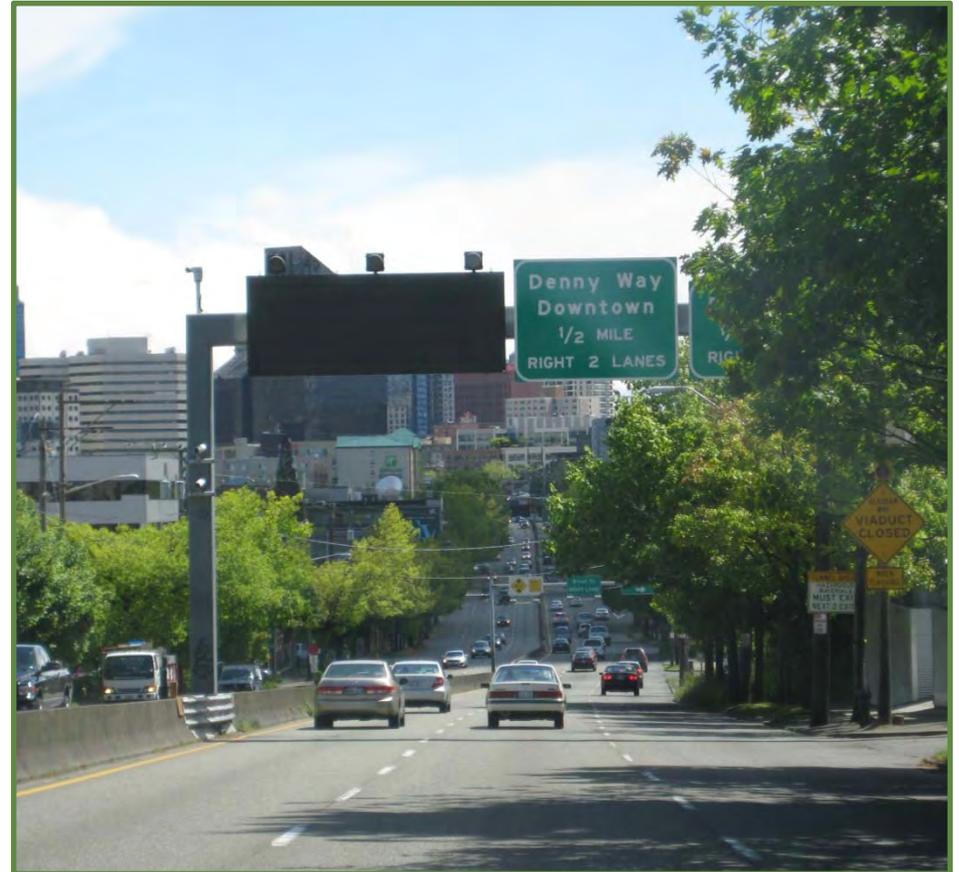
Traffic on the new roadway (East Frontage Road S.) between S. Atlantic Street and S. Royal Brougham Way.

Program Updates

East Marginal Way Grade Separation Project

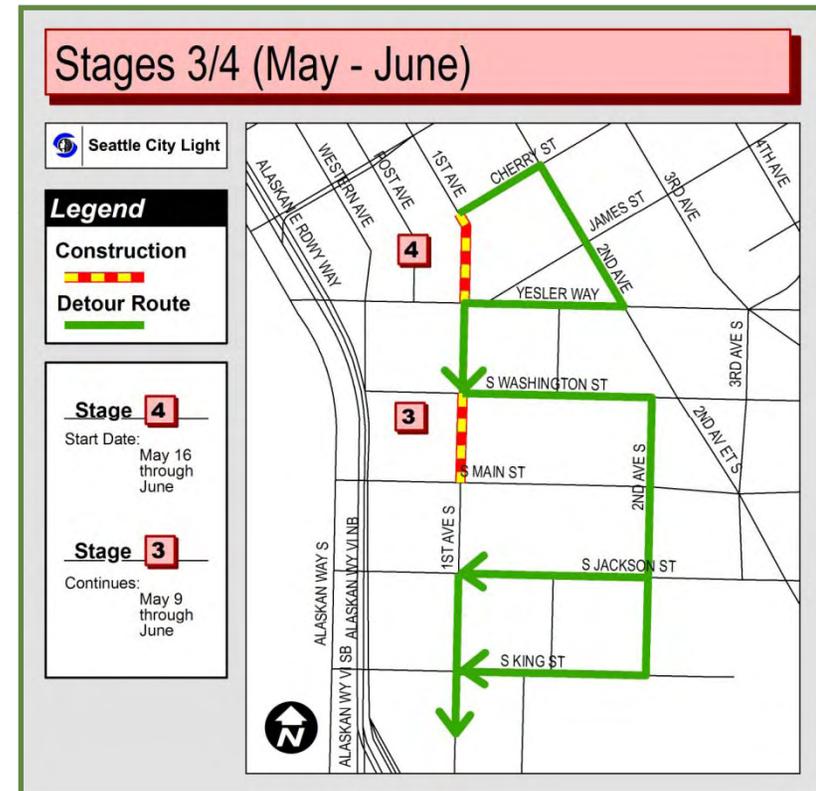


SR 99 Intelligent Transportation Systems



Seattle City Light First Avenue S. Work

- Relocating power lines under First Avenue S.
- First Avenue S. closed between:
 - Cherry Street and Yesler Way.
 - S. Washington Street and S. Main Street.
- Work will be complete in June.



Construction Coordination



SODO Planned Construction / Events		
Date(s) and Times	Project Name / Agency	Description of Traffic Impacts
Through May 26 10PM to 5AM	Lane closure on southbound Alaskan Way Viaduct overnight	Southbound Alaskan Way Viaduct (SR 99) will be reduced to a single open lane between the stadiums and S Holgate St each night.
Through May 26 7PM to 5AM	S Atlantic St closed overnights	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.
Through May 26 7PM to 5AM	Alaskan Way S closed overnights	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.
Through May 26 7PM to 5AM	East Frontage Rd S closed overnights, south of S Royal Brougham Way	East Frontage Rd S will be closed between S Royal Brougham Way and S Atlantic St each night. Access to I-5 and I-90 will be maintained via S Royal Brougham Way to 1st Ave S.
May 26-27 5AM to 3PM	1st Ave S reduced to one lane in each direction	1st Ave S will be reduced to one lane in each direction between S Royal Brougham Way and S King St each day.
Through May 27 9AM to 3PM	Lane closure on 4th Ave S between S Weller St and Airport Way S	Expect northbound single lane closures on 4th Ave S between S Weller St and Airport Way S during the day for expansion joint repair. Crews will not work on May 19 due to an afternoon Mariners game.
May 27 7:10PM	Seattle Mariners versus New York Yankees	At Safeco Field
May 28 1PM	Mexico versus Ecuador Soccer match	At Qwest Field
May 28 7:10PM	Seattle Mariners versus New York Yankees	At Safeco Field
May 29 1:10PM	Seattle Mariners versus New York Yankees	At Safeco Field
May 30 1:10PM	Seattle Mariners versus Baltimore Orioles	At Safeco Field
May 30 12PM to 4PM	Homeless Veteran's Day	Event will close S Main St between Alaskan Way S and 1st Ave S between 8AM and 4PM.
May 31 7:10PM	Seattle Mariners versus Baltimore Orioles	At Safeco Field
May 31-June 2 7PM to 5AM	S Atlantic St closed overnights	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.
May 31-June 2 7PM to 5AM	Alaskan Way S closed overnights	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.
May 31-June 2 7PM to 5AM	East Frontage Rd S closed overnights, south of S Royal Brougham Way	East Frontage Rd S will be closed between S Royal Brougham Way and S Atlantic St each night. Access to I-5 and I-90 will be maintained via S Royal Brougham Way to 1st Ave S.
June 1 7AM to 4PM	Northbound Utah Ave S closed	Northbound Utah Ave S will be closed between S Atlantic St and S Massachusetts St during the day. Two-way traffic will be maintained in the southbound direction during the closure.
June 1 12:40PM	Seattle Mariners versus Baltimore Orioles	At Safeco Field
June 2 7:10PM	Seattle Mariners versus Tampa Bay Rays	At Safeco Field
June 3 7:10PM	Seattle Mariners versus Tampa Bay Rays	At Safeco Field
June 3 8PM to 5AM	Overnight closures of northbound 1st Ave S at S Spokane St	Northbound 1st Ave S will be closed at S Spokane St overnight to facilitate the construction of a new on/off-ramp to the eastbound Spokane Street Viaduct.

Public Outreach and Engagement



Early Waterfront Design Ideas

- New connections from downtown to the waterfront.
- New public spaces with opportunities to view and touch the water.
- Re-centering the city around Elliott Bay.



Elliott Bay Seawall Project Alternatives



existing seawall

Elliott Bay  Seawall Project

Elliott Bay Seawall Project Alternatives



alternative A

Elliott Bay  Seawall Project

Elliott Bay Seawall Project Alternatives



alternative B

Elliott Bay  Seawall Project

Holgate to King Construction Update

SR 99 On- and Off-ramps



East Frontage Road S.



Building the New SR 99 Roadway



Building the New SR 99 Roadway



Building the New SR 99 Roadway

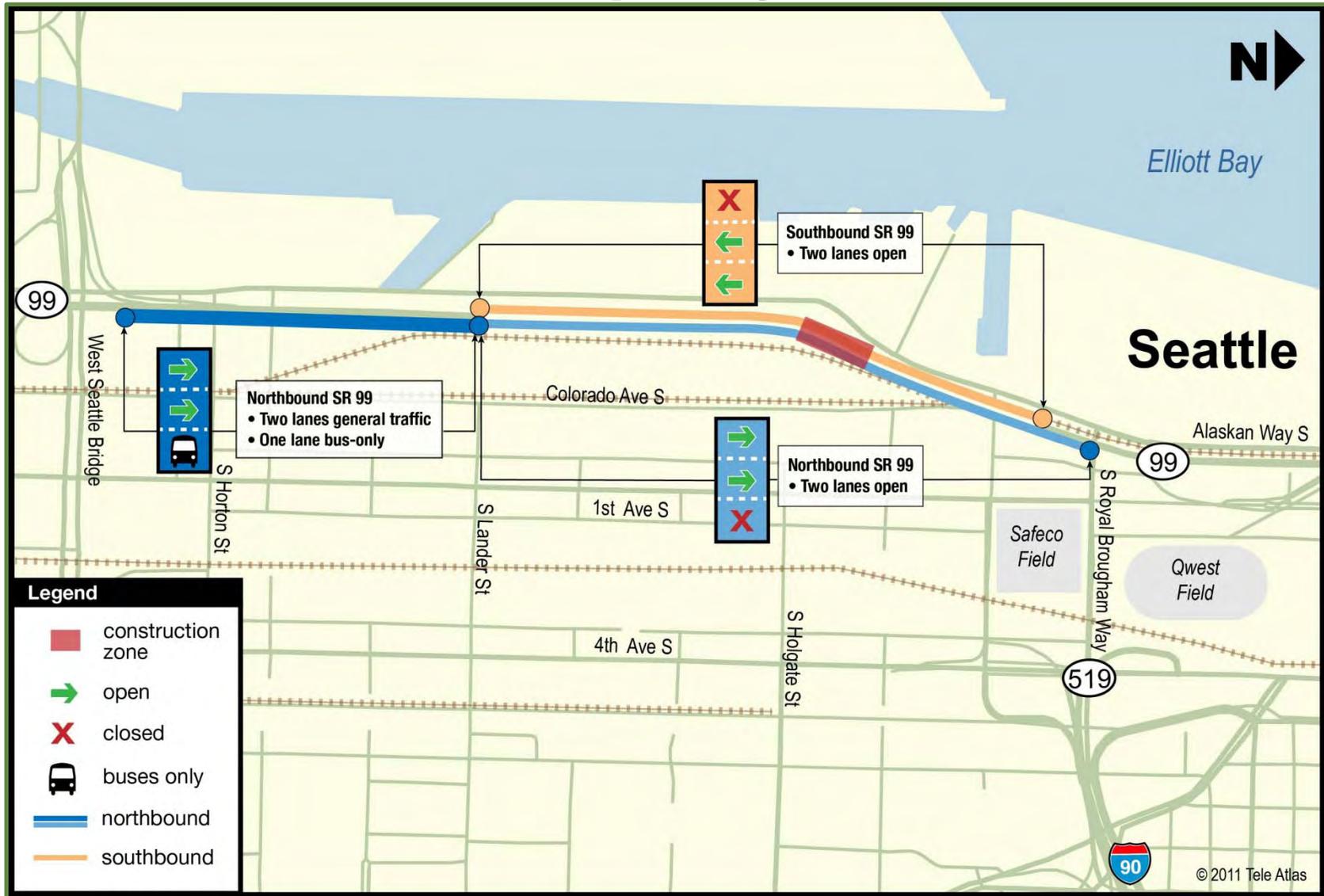


Building the New SR 99 Roadway



Interactive Construction Simulation

Reduced Capacity on SR 99



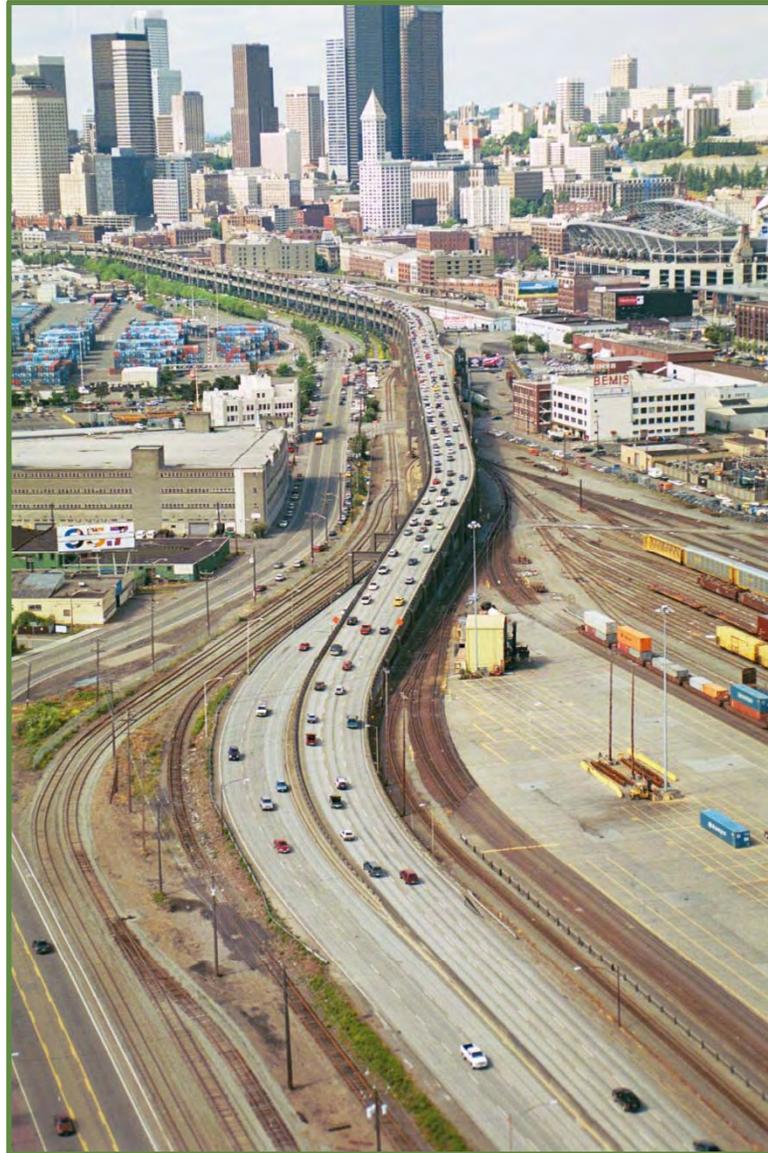
Building the New SR 99 Southbound Roadway



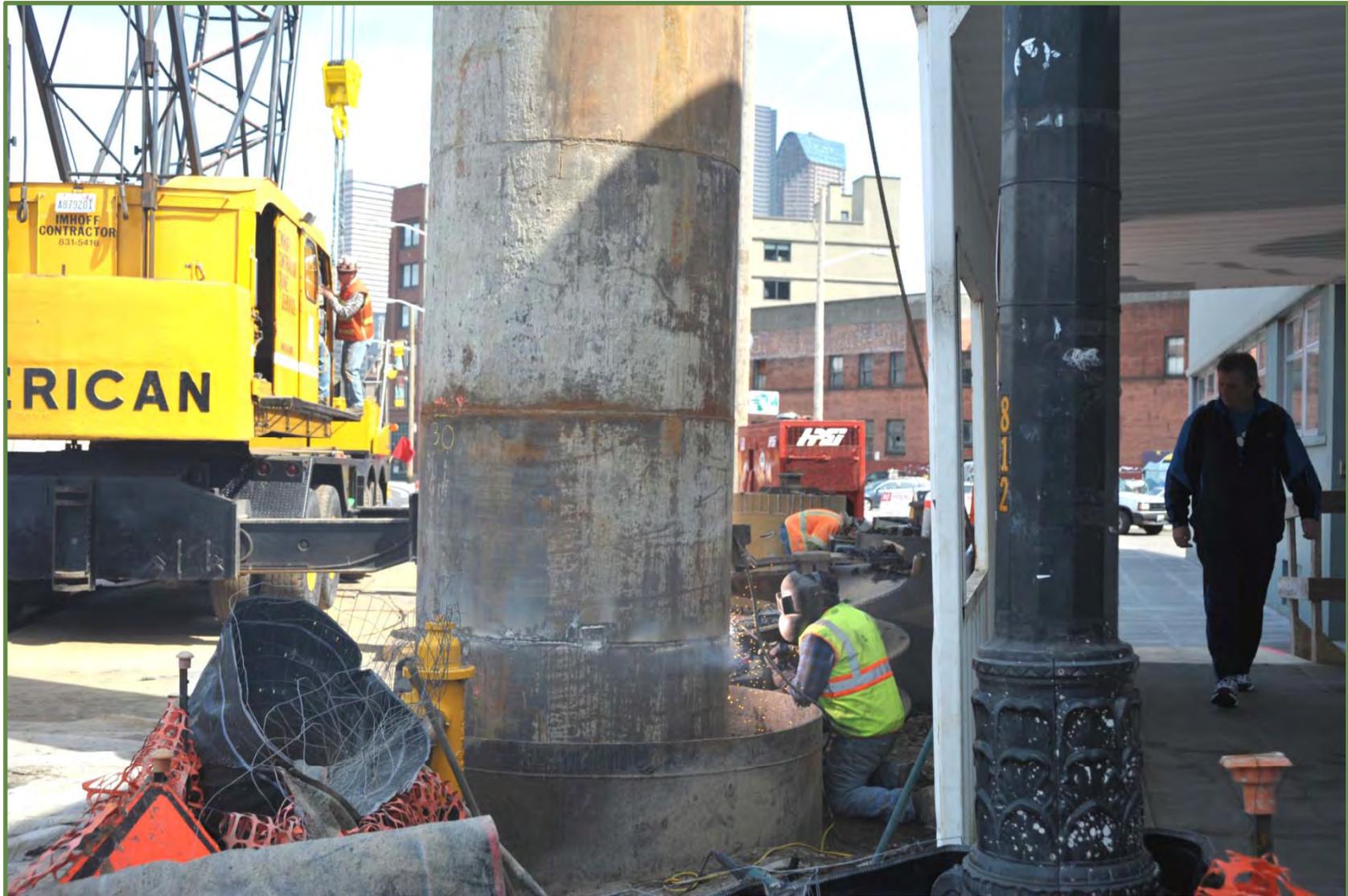
Building the New SR 99 Southbound Roadway



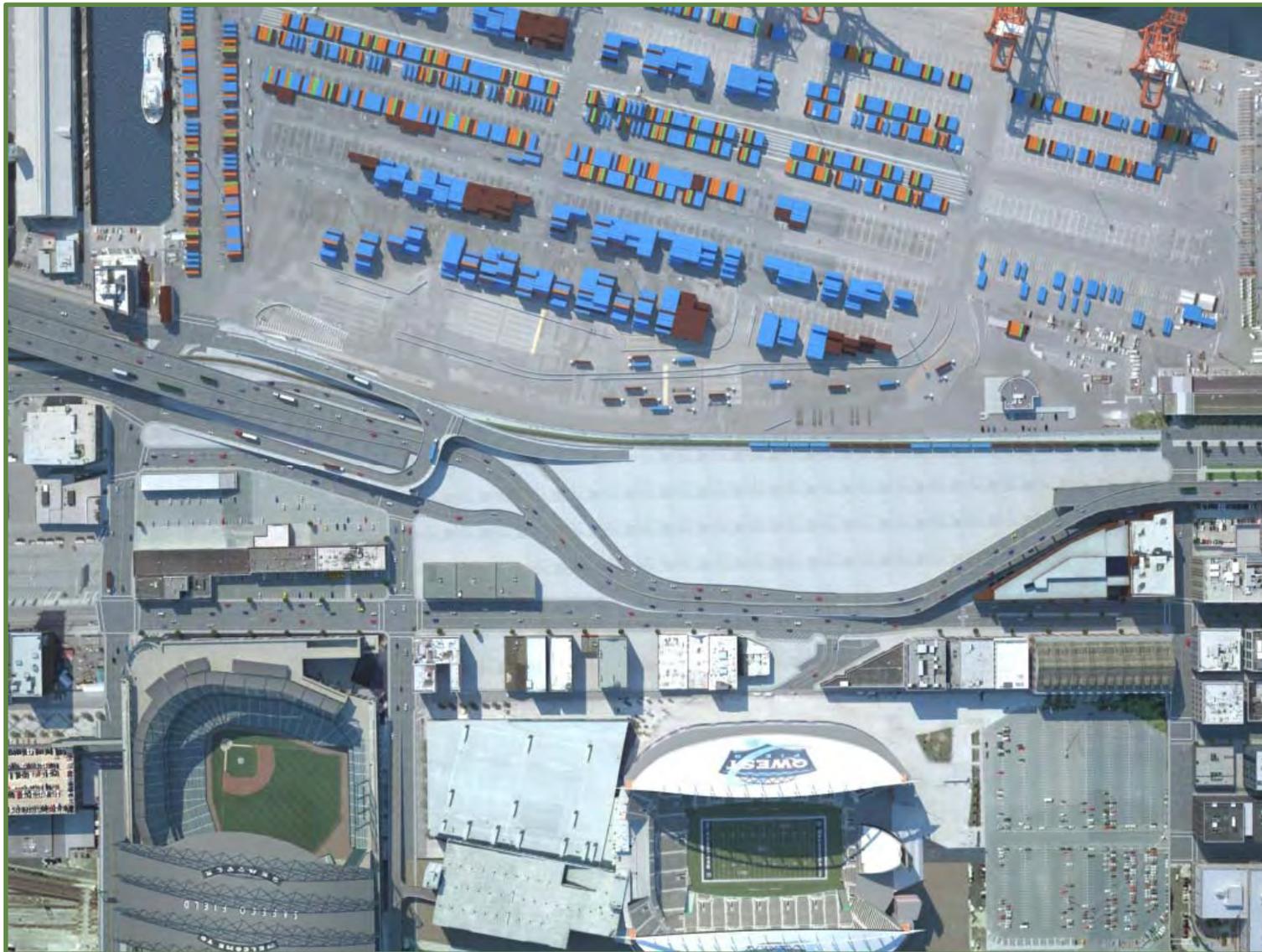
Alaskan Way Viaduct



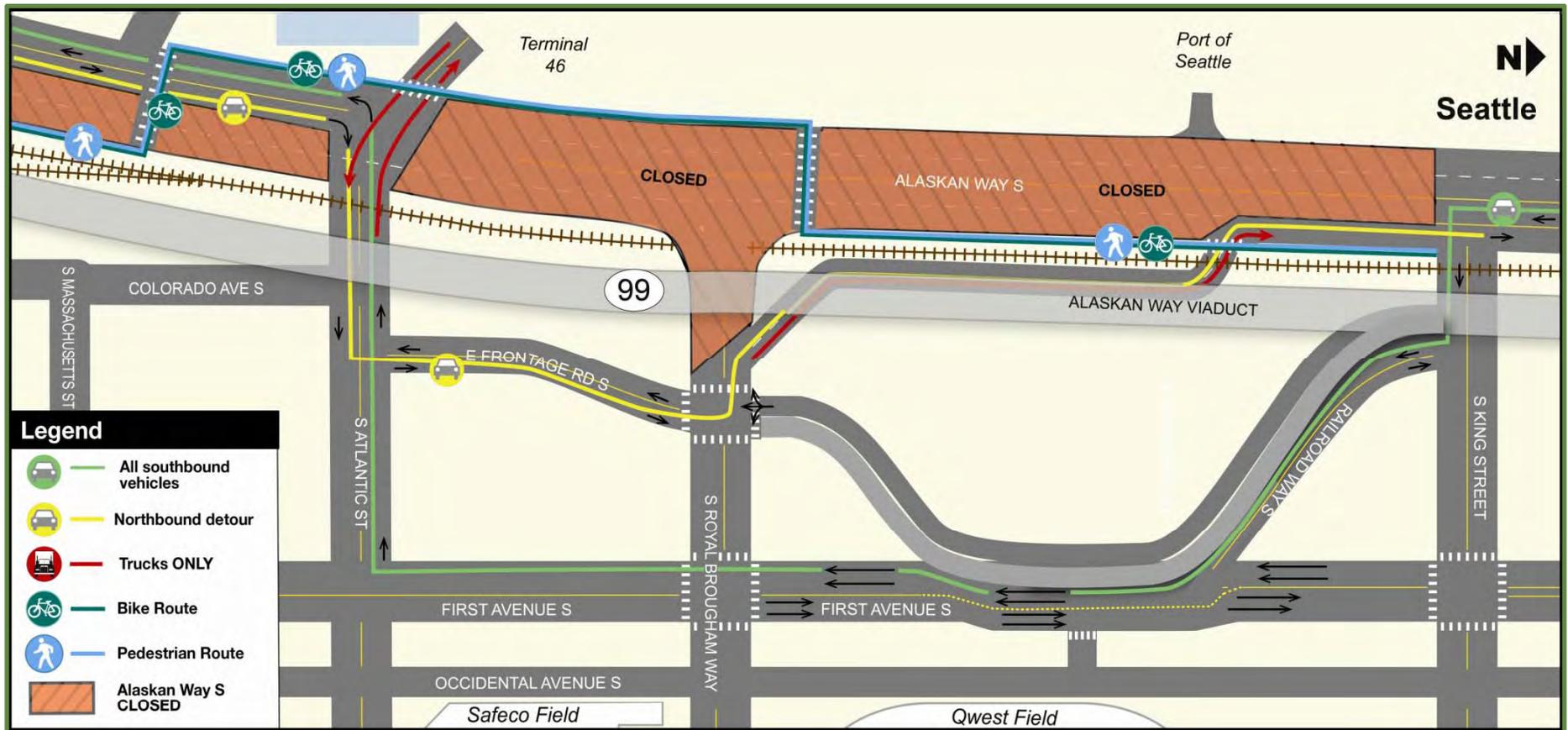
Crews Installing Temporary Sign Bridge



South End in 2013



Closure on Alaskan Way S.



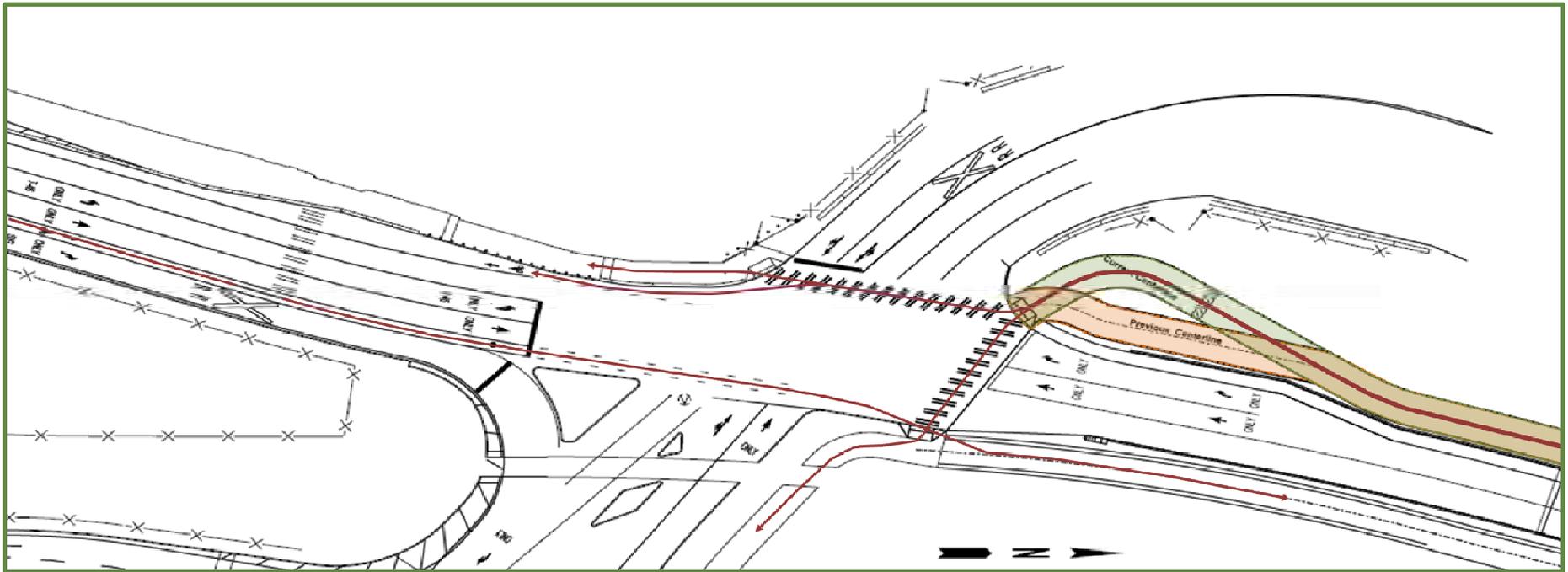
Closure on Alaskan Way S.



Building Railroad Track and Bicycle / Pedestrian Path



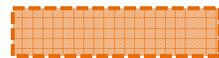
Safety Near Terminal 46



Bike movements



Current alignment



Previous alignment

Feedback from Working Group Members

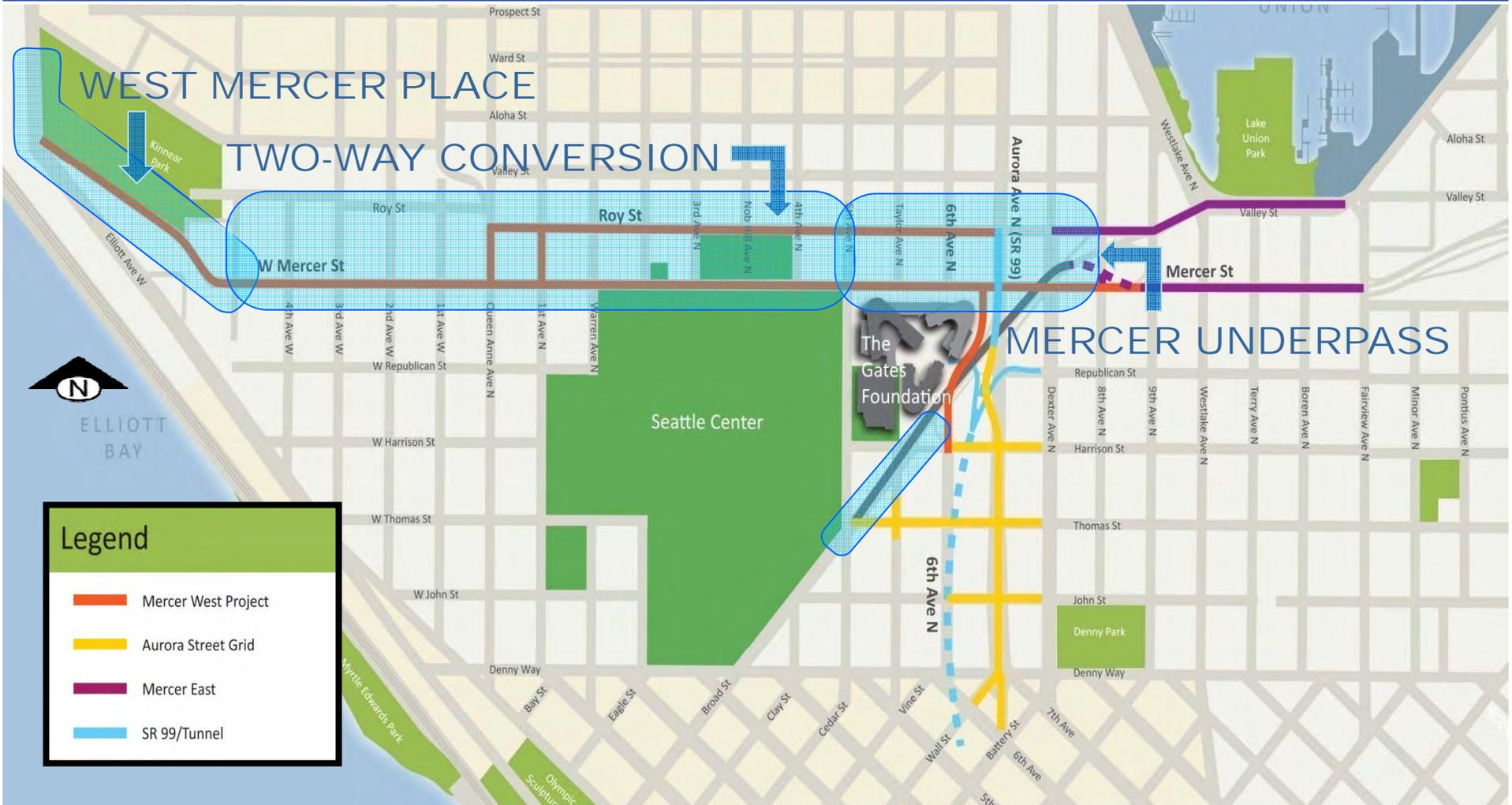
- Do you have any feedback regarding the way traffic has been managed during construction?

Mercer West Update



MERCER WEST

Completing the Vision For Two-Way Mercer St From I-5 to Elliott Ave W



Legend

- Mercer West Project
- Aurora Street Grid
- Mercer East
- SR 99/Tunnel

- Create a direct connection from I-5 and SR 99 to Seattle Center, Uptown, Queen Anne, and Interbay
- Improve pedestrian and bicycle connection across SR 99

- Add a new option for freight from I-5 to Interbay
- Connect the Uptown and S Lake Union urban centers
- Enhance transit access



MERCER WEST

Why consider changes to West Mercer Place?

Existing Viaduct

- Mercer connects to I-5
- Elliott connects to SR 99 in Belltown

AWV Replacement / Bored Tunnel

- Mercer connects to SR 99 & I-5
- Elliott connects to Alaskan Way





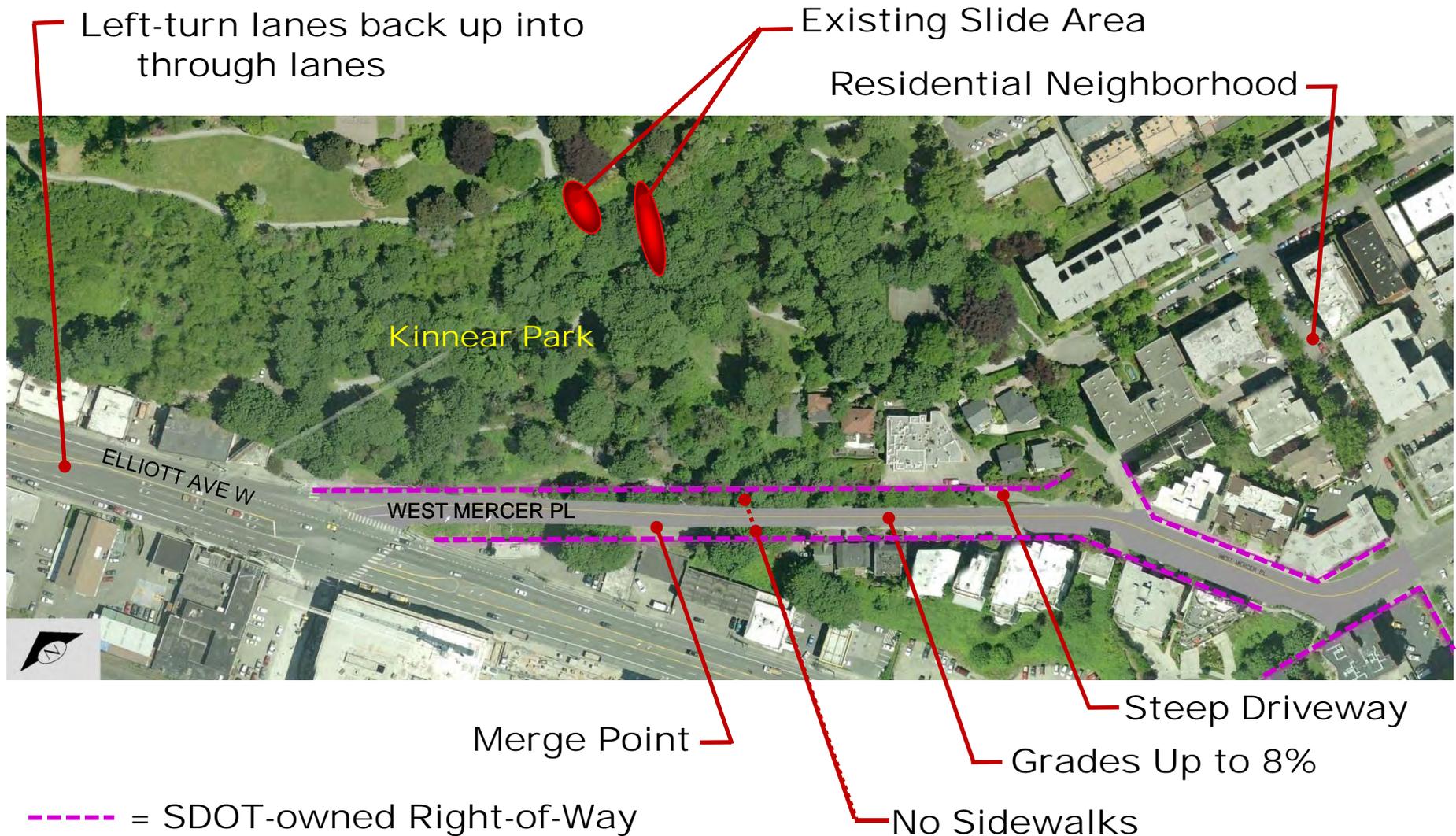
Limited pedestrian and bicycle connections No sidewalks or bike lanes on West Mercer Place





MERCER WEST

Existing Conditions





Alternatives

- 1. Sidewalk on south side of West Mercer Place*
- 2. Sidewalk and uphill bike lane*
- 3. Extend second lane half-way up the hill on W Mercer Pl*
- 4. Extend second lane to the top of the hill on W Mercer Pl*
- 5. Extend the southbound left-turn lanes on Elliott Ave W*



Traffic Modeling Includes:

SR 99 Bored Tunnel

- Waterfront construction with Tunnel open (2016-2017)
- Tunnel and Waterfront complete (2018)
- Twenty-year growth (2030)

Nickerson St / Dexter Ave N

Population and Employment Growth

- Regional PSRC Forecasts
- Consistent with the Seattle Comprehensive Plan
- POS North Bay Alternative 4 (Industrial Development under existing zoning)
- 635 Elliott Ave

Truck Volumes

Cruise ship operations during the summer months

RapidRide



MERCER WEST

AWV AM Peak Hour Traffic Projections At Elliott / W. Mercer PI

AM

SB Elliott Ave Left-Turn

2010	2015 Existing Viaduct	2015 Waterfront Construction ⁽¹⁾	2018 Program ⁽²⁾	2030 Program ⁽²⁾
372	520	810	555	600

SB Elliott Ave Through

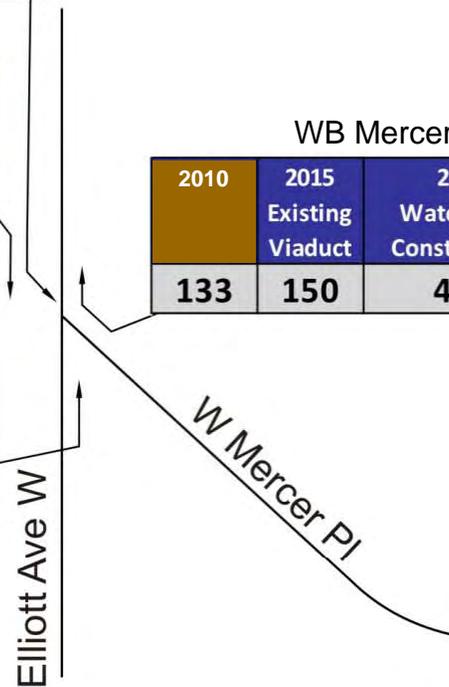
2010	2015 Existing Viaduct	2015 Waterfront Construction	2018 Program	2030 Program
2229	2200	2195	2395	2450

NB Elliott Ave Through

2010	2015 Existing Viaduct	2015 Waterfront Construction	2018 Program	2030 Program
1097	1580	1300	1300	1500

WB Mercer PI

2010	2015 Existing Viaduct	2015 Waterfront Construction	2018 Program	2030 Program
133	150	445	490	660



(1) "Waterfront Construction" = Tunnel is open to traffic. Construction on surface Alaskan Way.

(2) "Program" = Tunnel open with surface Alaskan Way, Elliott/Western, and Mercer West Two-Way Conversion completed.



PM

SB Elliott Ave Left-Turn

2010	2015 Existing Viaduct	2015 Waterfront Construction ⁽¹⁾	2018 Program ⁽²⁾	2030 Program ⁽²⁾
370	475	700	610	610

SB Elliott Ave Through

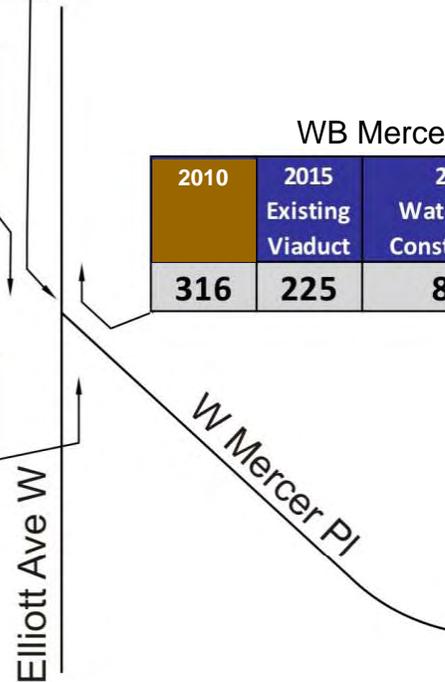
2010	2015 Existing Viaduct	2015 Waterfront Construction	2018 Program	2030 Program
1434	1300	1250	1600	1650

NB Elliott Ave Through

2010	2015 Existing Viaduct	2015 Waterfront Construction	2018 Program	2030 Program
2326	2550	2250	2450	2570

WB Mercer PI

2010	2015 Existing Viaduct	2015 Waterfront Construction	2018 Program	2030 Program
316	225	800	590	590

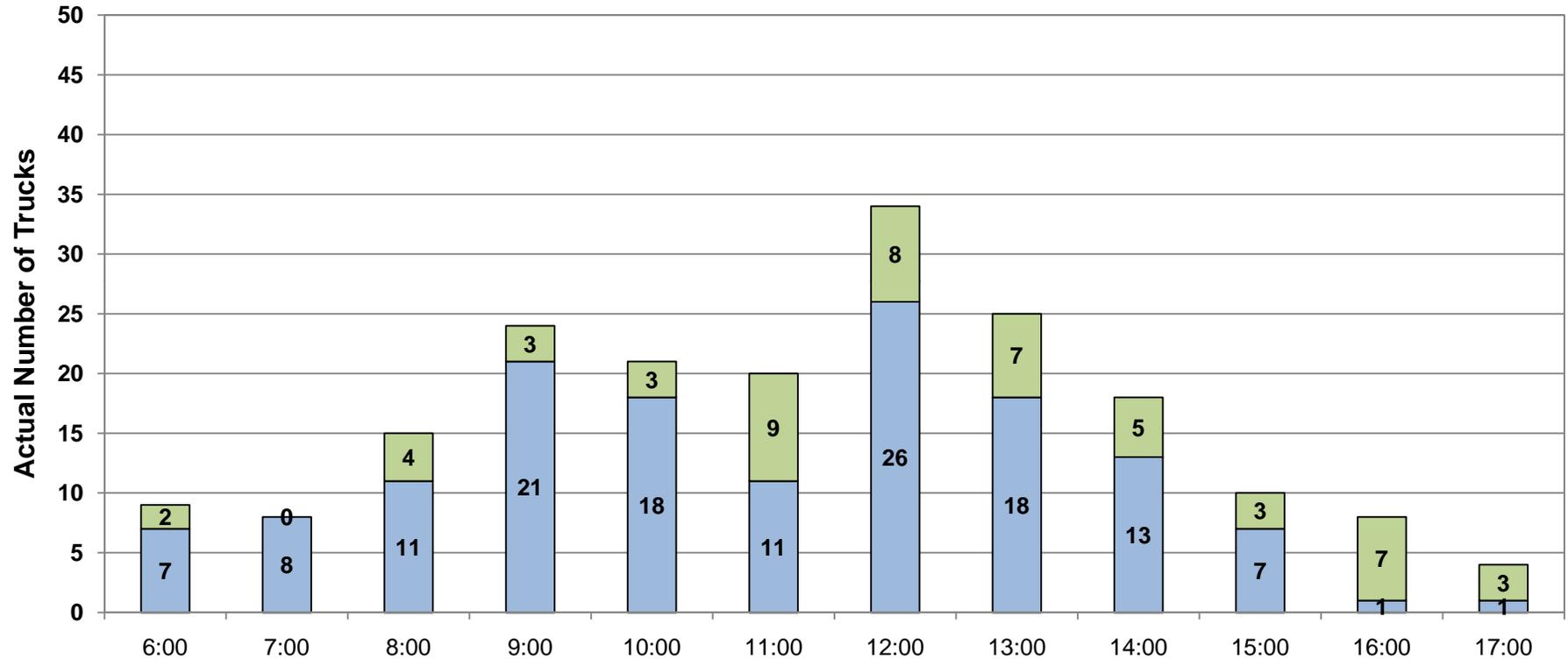


(1) "Waterfront Construction" = Tunnel is open to traffic. Construction on surface Alaskan Way.

(2) "Program" = Tunnel open with surface Alaskan Way, Elliott/Western, and Mercer West Two-Way Conversion completed.



West Mercer Place / East of Elliott Avenue West



Trailer Truck



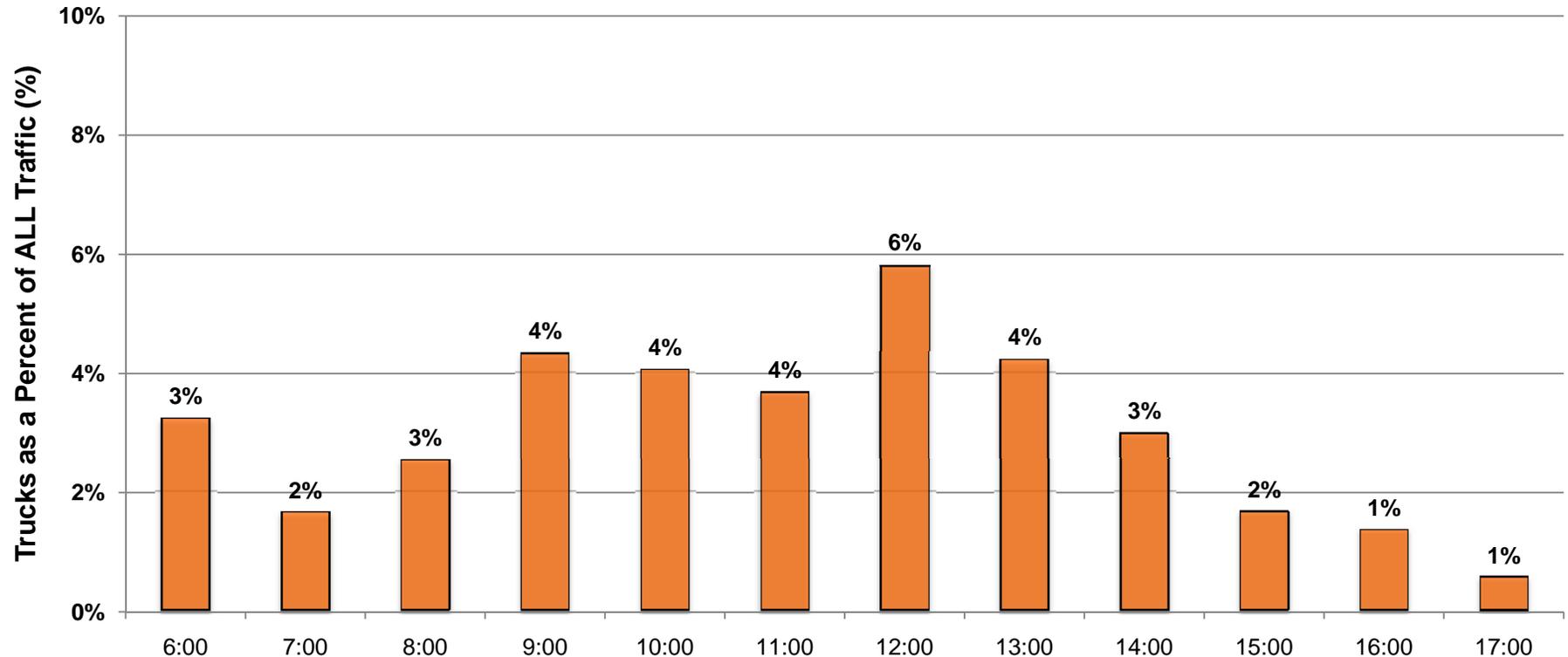
Single Unit Truck



Data Collected September 2010
(after the Nickerson St. re-channelization)



West Mercer Place / East of Elliott Avenue West



Data Collected September 2010
(after the Nickerson St. re-channelization)

Assumption for analysis: Trucks make up 5% of future a.m. peak period traffic volume on West Mercer Place.



Future Condition:		Alternative 3: Extend merge lane <u>half</u> way up the hill. [Seconds saved]	Alternative 4: Extend merge lane <u>all</u> the way up the hill. [Seconds saved]	Alternative 5: Extend left-turn lanes on Elliott Ave W. [Seconds saved]	Projected Travel Time: Elliott Ave W to I-5 <i>without improvements on West Mercer Place</i>
2016: AM Peak Waterfront construction with Tunnel open.	Autos: Trucks:	0 (0) 0 (0)	1 (1) 4 (3)	43 (41) * 52 (41) *	8 minutes (480 seconds)
2018: AM Peak Tunnel and Waterfront Complete.	Autos: Trucks:	0 (0) 0 (0)	3 (3) 5 (5)	4 (4) * 5 (5) *	
2030: AM Peak Future condition.	Autos: Trucks:	0 (0) 0 (0)	2 (2) 5 (5)	6 (7) * 13 (14) *	

Cruise ship traffic volume travel time savings are shown in (parenthesis).

- Alternative 5 Travel Time saving is reduction in delay for the left turn to West Mercer Place at Elliott.
- Alternative 5 reduction in delay for southbound Elliott Ave would be 3 to 27 seconds



	Alternative 1: Add - 8 ft sidewalk.	Alternative 2: Add - 8 ft sidewalk, - 5 ft bike lane.	Alternative 3: Add - 8 ft sidewalk, - 5 ft bike lane, - Extend merge lane half way up the hill.	Alternative 4: Add - 8 ft sidewalk, - 5 ft bike lane, - Extend merge lane all the way up the hill.	Alternative 5: Extend left-turn lanes on Elliott Ave W
Travel Time Reduction:	0 seconds	0 seconds	0 seconds	1-5 seconds	4-52 seconds
Kinnear Park Vehicle Entrance:	-	-	Modified	Modified	-
Parking (approx # of spaces):	4	11	11	23 / 4	-
Wall length:	250 ft south	330 ft south	330 ft south 380 ft north	330 ft south 700 ft north	-
Noise:	-	-	Traffic lanes closer to homes	Traffic lanes closer to homes	-
Estimated Cost:	\$2.7 Mil	\$4.2 Mil	\$8.0 Mil	\$12.9 Mil	\$0.2 Mil



MERCER WEST

Elliott Avenue West Intersection Improvement

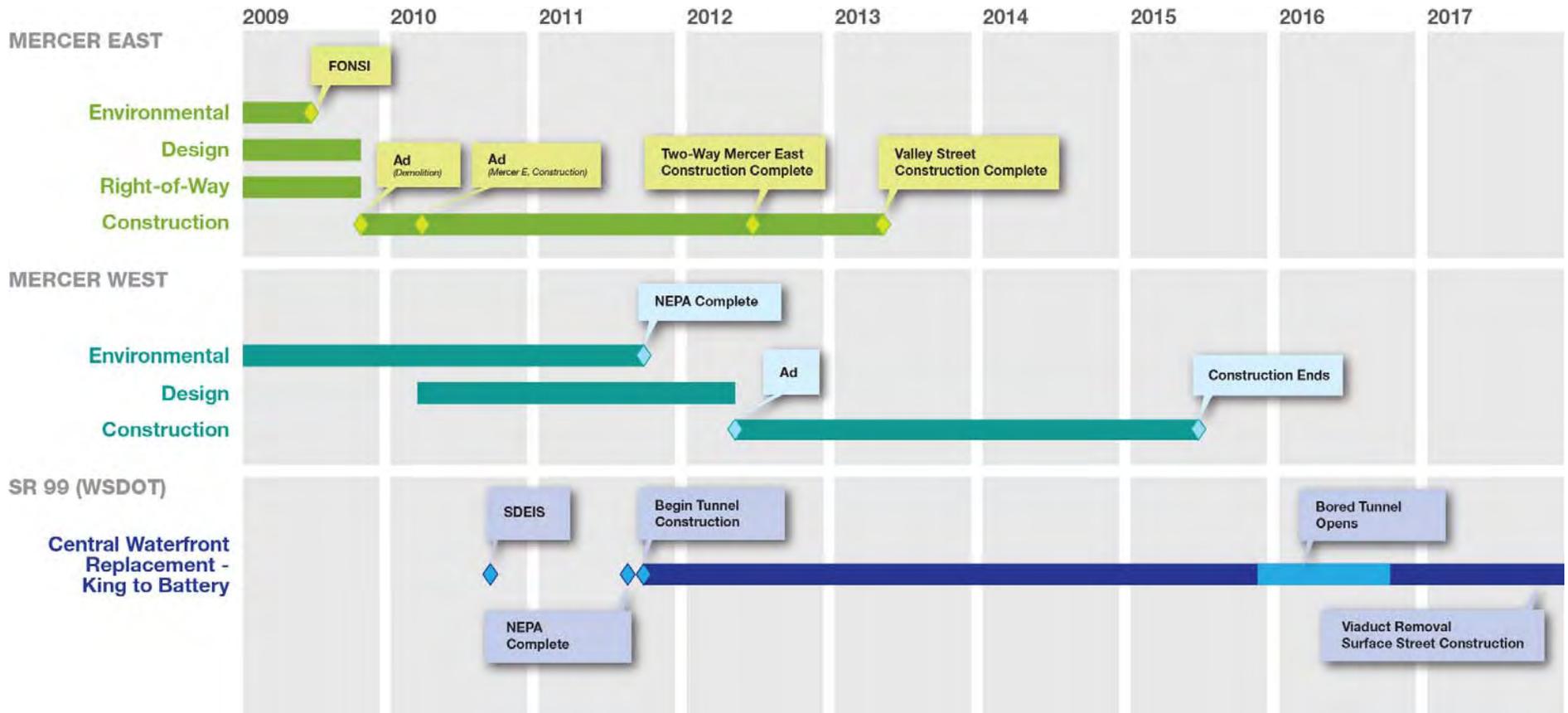


APRIL	MAY	JUNE
	<p>Design & Outreach</p>	<p>Construction</p> <ul style="list-style-type: none"> • Traffic Control • Remove raised median • Repave and restripe • Adjust signal timing



MERCER WEST

Mercer Corridor Schedule

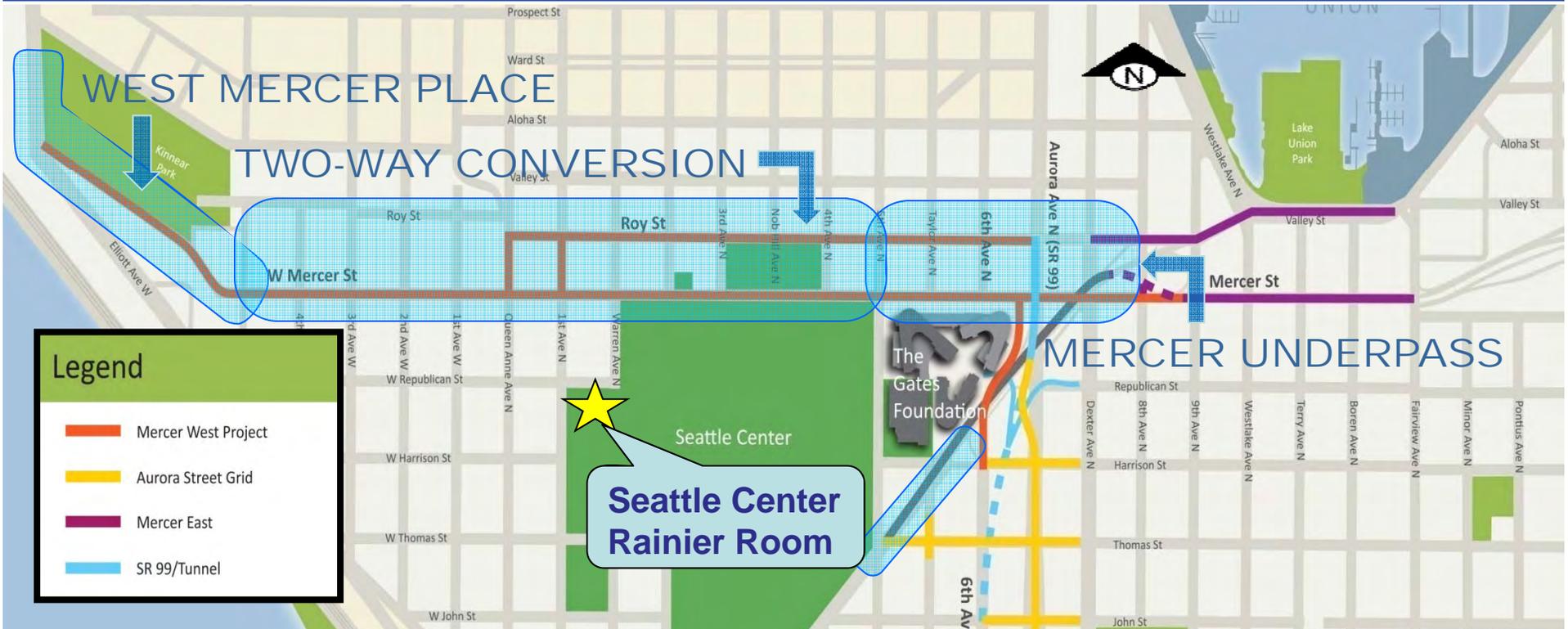


May 24, 2011



MERCER WEST

OPEN HOUSE June 8, 4:30 – 7:00 pm



Preliminary Designs

- Widened Mercer Underpass
- Two-way Conversion of Mercer St and Roy St

Public Art Concepts

Recommendation for West Mercer Place



MERCER WEST

If you have any questions, please visit:

http://www.seattle.gov/transportation/mercercer_west.htm

Or contact:

Eric Tweit

Mercer West Project Manager

mercercerwest@seattle.gov

(206) 684-8834



QR code for the website

Bored Tunnel Alternative Update

Environmental Impact Statement

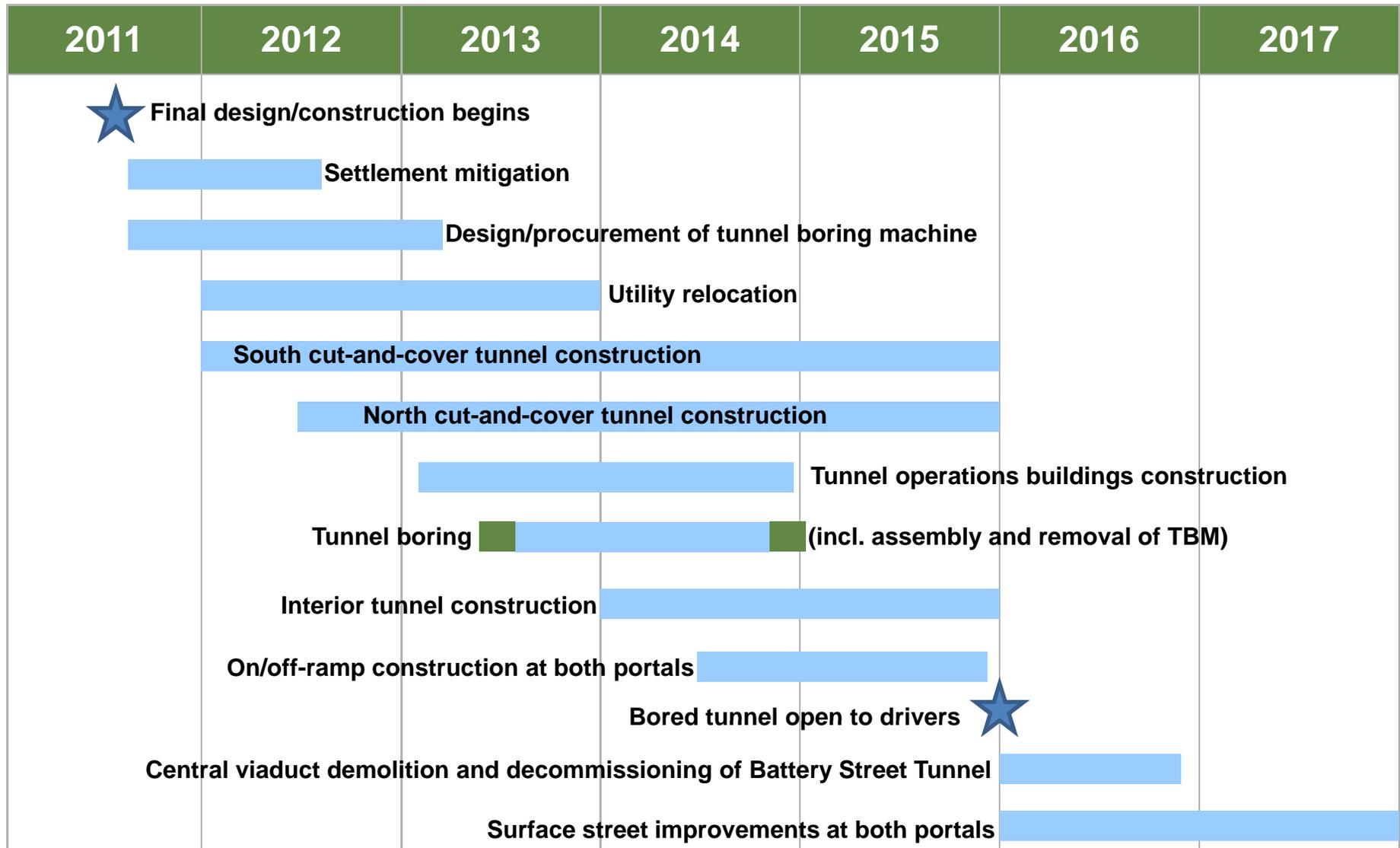
Final EIS will include:

- Responses to 2004, 2006 and 2010 draft EIS comments.
- Updated bored tunnel design to reflect Seattle Tunnel Partners' design-build proposal.
- Construction and operational effects for all build alternatives.
- Integrated tolling analysis for bored tunnel, cut-and-cover tunnel and elevated structure alternatives.
- Proposed mitigation measures.

Environmental Timeline

January 2011	Feb-June 2011	July 2011	August 2011
<p>★ Signed design-build contract with Seattle Tunnel Partners</p>	<p>★ Issued design-build Notice to Proceed 1</p> <p>Preliminary design</p>	<p>Publish Final EIS ★</p>	<p>FHWA issues Record of Decision ★</p> <p>Issue design-build Notice to Proceed 2 ★</p>

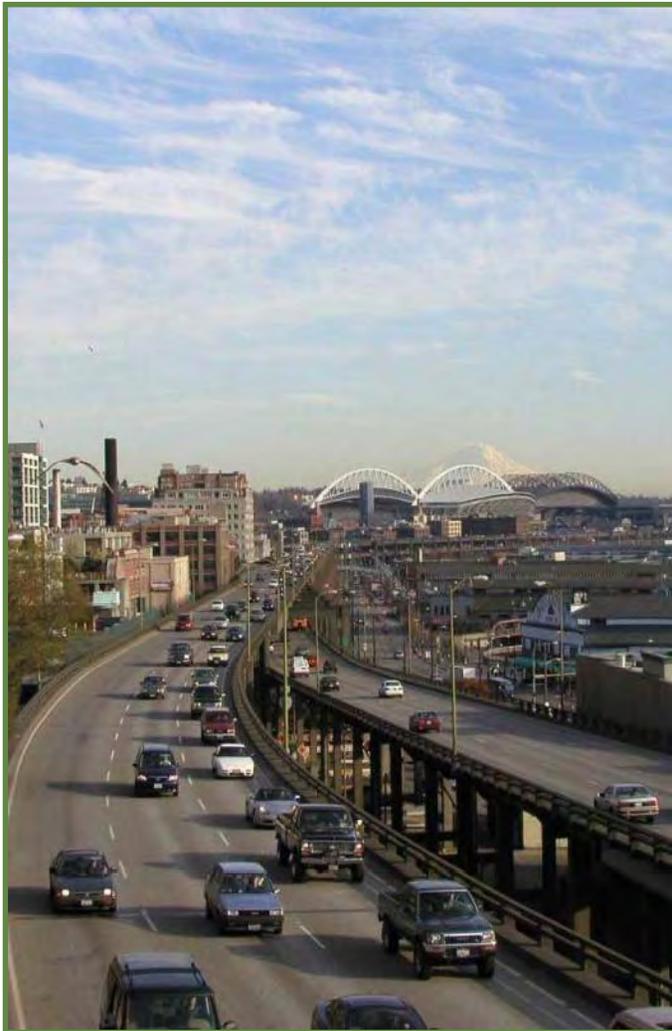
Proposed Construction Timeline



Feedback from Working Group Members

- Do you have any unresolved questions about the environmental process or construction schedule?

Alaskan Way Viaduct and Seawall Replacement Program



Web:

www.alaskanwayviaduct.org

E-mail:

viaduct@wsdot.wa.gov

Hotline:

1-888-AWV-LINE