

Point Defiance Bypass Project

Technical Advisory Group

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ARRA Projects – Washington State High-Speed Intercity Passenger Rail

- Blaine – Swift Customs Facility Siding
- Everett – Storage Track
- Seattle – King Street Station Track Upgrades
- Tacoma – D to M Street Connection
- Tacoma – Point Defiance Bypass
- Kelso Martin's Bluff – New Siding
- Kelso Martin's Bluff – Toteff Siding Extension
- Kelso Martin's Bluff – Kelso to Longview Jct.
- Vancouver – Yard Bypass Track
- Vancouver – New Middle Lead
- Vancouver – Port of Vancouver Grade Separation
- Corridor Reliability Upgrades – North
- Corridor Reliability Upgrades – South
- Advanced Signal System
- Amtrak *Cascades*® New Train Set
- New Locomotives (8)



Traffic Study overview

- Multiple Scenarios
 - 2010 & 2030
 - AM & PM (also mid-day at Berkeley)
 - Build & No-build
 - *Without* Cross Base Hwy & *with* at interchanges near JBLM only
- No unexpected findings
- Minor changes in average delay between build and no-build

Traffic Study overview

Memos

- Thorne & south – 2010 and 2030 AM-PM Timing – Delays – Queues
 - Without Cross Base
 - With Cross Base
- Berkeley Street – 2010 Mid-day Delays & Queues
- Clover Creek Drive & north – 2010 AM-PM Build Timing – Delays – Queues
- Clover Creek Drive & north – 2030 AM-PM Timing – Delays – Queues

Traffic Analysis Conditions for the Pt. Defiance Bypass Environmental Assessment

					Model/Analysis Scenarios															
					Current Year (2010) Vehicle Traffic Levels								Future Year (2030) Vehicle Traffic Levels without Cross-Base Highway				Future Year (2030) Vehicle Traffic Levels with Cross-Base Highway			
					Existing Infrastructure				Proposed Improvements				Existing Infrastructure				Proposed Improvements			
					Existing Operations (No Action)				Proposed Operations (Proposed Action)				Existing Operations (No Action)				Proposed Operations (Proposed Action)			
Crossing	Jurisdiction	Number of Intersections	Modeling Software	Task Order	No Train Traffic ¹	Sounder Trains Only ¹	Sounder & Amtrak Trains ¹	No Train Traffic ¹	Amtrak Trains Only ¹	No Train Traffic	No Train Traffic	Amtrak Trains Only	No Train Traffic ¹	Sounder Trains Only ¹	Sounder & Amtrak Trains ¹	No Train Traffic ¹	Amtrak Trains Only ¹	No Train Traffic ¹	No Train Traffic ¹	Amtrak Trains Only ¹
					Barksdale Ave	DuPont/WSDOT	3	VISSIM	AO	Yes			Yes	Yes				Yes		
41st Division Drive	JBLM/WSDOT	1	VISSIM	AO	Yes			Yes	Yes				Yes			Yes	Yes	Yes	Yes	Yes
Berkeley Street	Lakewood/WSDOT	3	VISSIM	AO	Yes			Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes
North Thorne Lane	Lakewood/WSDOT	3	VISSIM	AO	Yes			Yes	Yes				Yes			Yes	Yes	Yes	Yes	Yes
Clover Creek Drive	Lakewood	2	Manual	AT	Yes			Yes	Yes				Yes			Yes	Yes			
Bridgeport Way SW	Lakewood/WSDOT	3	VISSIM	AT	Yes				Yes				Yes				Yes	Yes	Yes	Yes
108th Street SW	Lakewood	2	VISSIM	AT		Yes	Yes							Yes	Yes					
100th Street SW	Lakewood	1	VISSIM	AT		Yes	Yes							Yes	Yes					
Steilacoom Blvd. SW	Lakewood	2	VISSIM	AT		Yes	Yes							Yes	Yes					
South 74th Street	Tacoma	1	VISSIM	AT		Yes	Yes							Yes	Yes					
South 60th Street	Tacoma	3	SYNCHRO	AT		Yes	Yes							Yes	Yes					
South 56th Street	Tacoma	5	VISSIM	AT		Yes	Yes							Yes	Yes					
South 50th Street	Tacoma	2	SYNCHRO	AT		Yes	Yes							Yes	Yes					
South 35th Street	Tacoma	2	SYNCHRO	AT		Yes	Yes							Yes	Yes					
South Pine Street	Tacoma	2	VISSIM	AT		Yes	Yes							Yes	Yes					
South Wilkeson Street	Tacoma	2	SYNCHRO	AT		Yes	Yes							Yes	Yes					
South Alaska Street	Tacoma	2	SYNCHRO	AT		Yes	Yes							Yes	Yes					
South Chandler Street	Tacoma	2	SYNCHRO	AT		Yes	Yes							Yes	Yes					
South C Street	Tacoma	2	SYNCHRO	AT		Yes ²	Yes ²							Yes ²	Yes ²					
East C Street	Tacoma	3	SYNCHRO	AT		Yes ²	Yes ²							Yes ²	Yes ²					
East D Street	Tacoma	3	SYNCHRO	AT		Yes ²	Yes ²							Yes ²	Yes ²					

¹ During AM and PM Peak Hours only

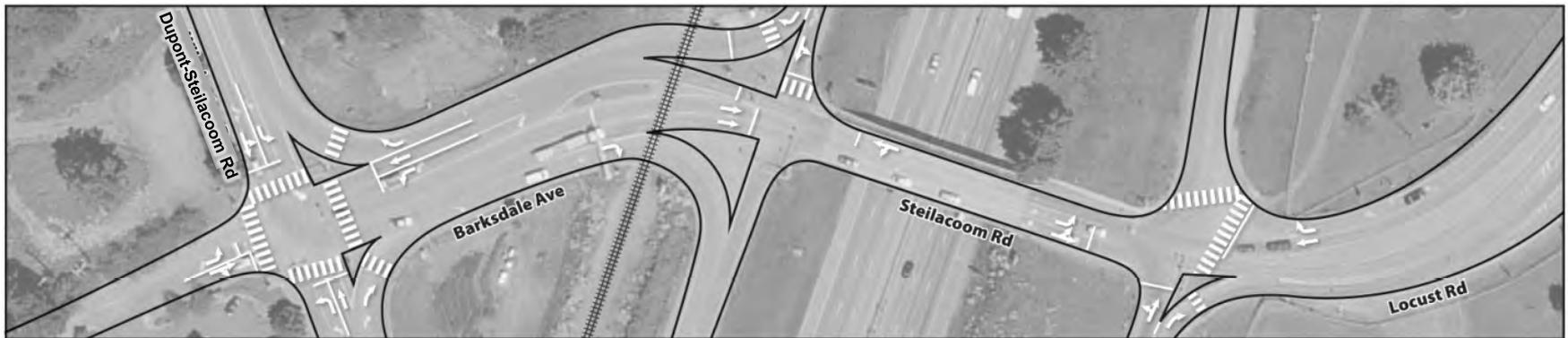
² Crossing not yet modified or constructed under separate Sound Transit action. Analysis to be performed based on designs for construction currently underway.

Traffic Study highlights – evening peak

Barksdale Avenue

	2010 no-build	2010 build	2030 no-build	2030 build
Avg. seconds delay	16.5	19.9	30.0	33.8
Level of service	B	B	C	C

- Maximum Queue in current year on southbound Dupont-Steilacoom Rd. goes from 266 feet in no-build alternative to 538 feet in the build alternative.
- Maximum Queue in 2030 (with Cross-Base Hwy) on SB Dupont-Steilacoom Rd. goes from 621 ft. in no-build alternative to 813 ft. in the build alternative.



Traffic Study highlights – evening peak

Berkeley Street SW

	2010 no-build	2010 build	2030 no-build	2030 build
Avg. seconds delay	39.1	32.0	59.3	29.6
Level of service	D	C	E	C

- Maximum Queue for current year on southbound Union Ave. goes from 760 feet in no-build alternative to 520 feet in the build alternative.
- Maximum Queue in 2030 (with Cross-Base Hwy) on southbound Union Ave. goes from 1384 feet in no-build alternative to 418 feet in the build alternative.

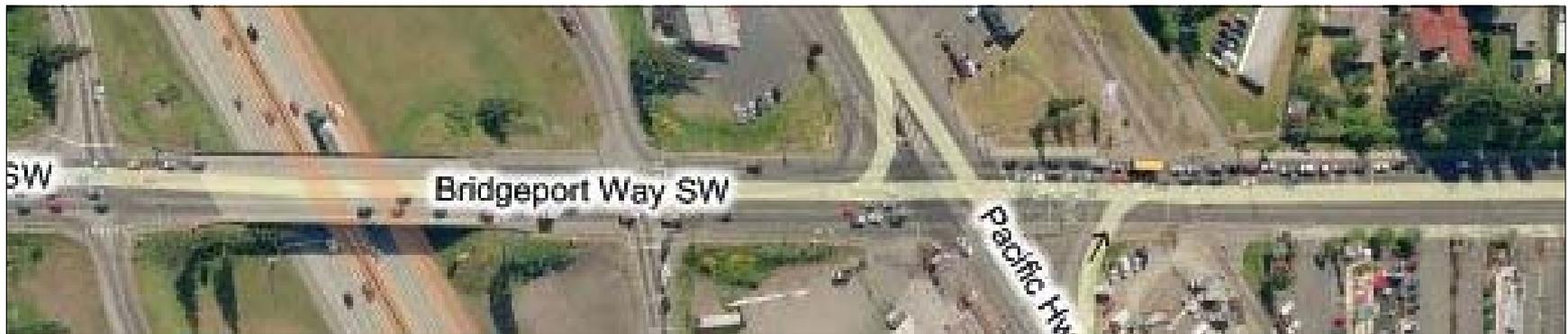


Traffic Study highlights – evening peak

Bridgeport Way SW

	2010 no-build	2010 build	2030 no-build	2030 build
Avg. seconds delay	15.7	16.1	19.8	21.6
Level of service	B	B	B	C

- Maximum Queue for current year on southbound Bridgeport Way goes from 332 feet in no-build alternative to 350 feet in the build alternative.
- Maximum Queue in 2030 (without Cross-Base Hwy) on I-5 SB Off Ramp goes from 403 feet in no-build alternative to 766 feet in the build alternative.



Traffic Study highlights – evening peak

S. 56th Street

	2010 no-build	2010 build	2030 no-build	2030 build
Avg. seconds delay	13.0	13.5	16.0	16.6
Level of service	B	B	B	B

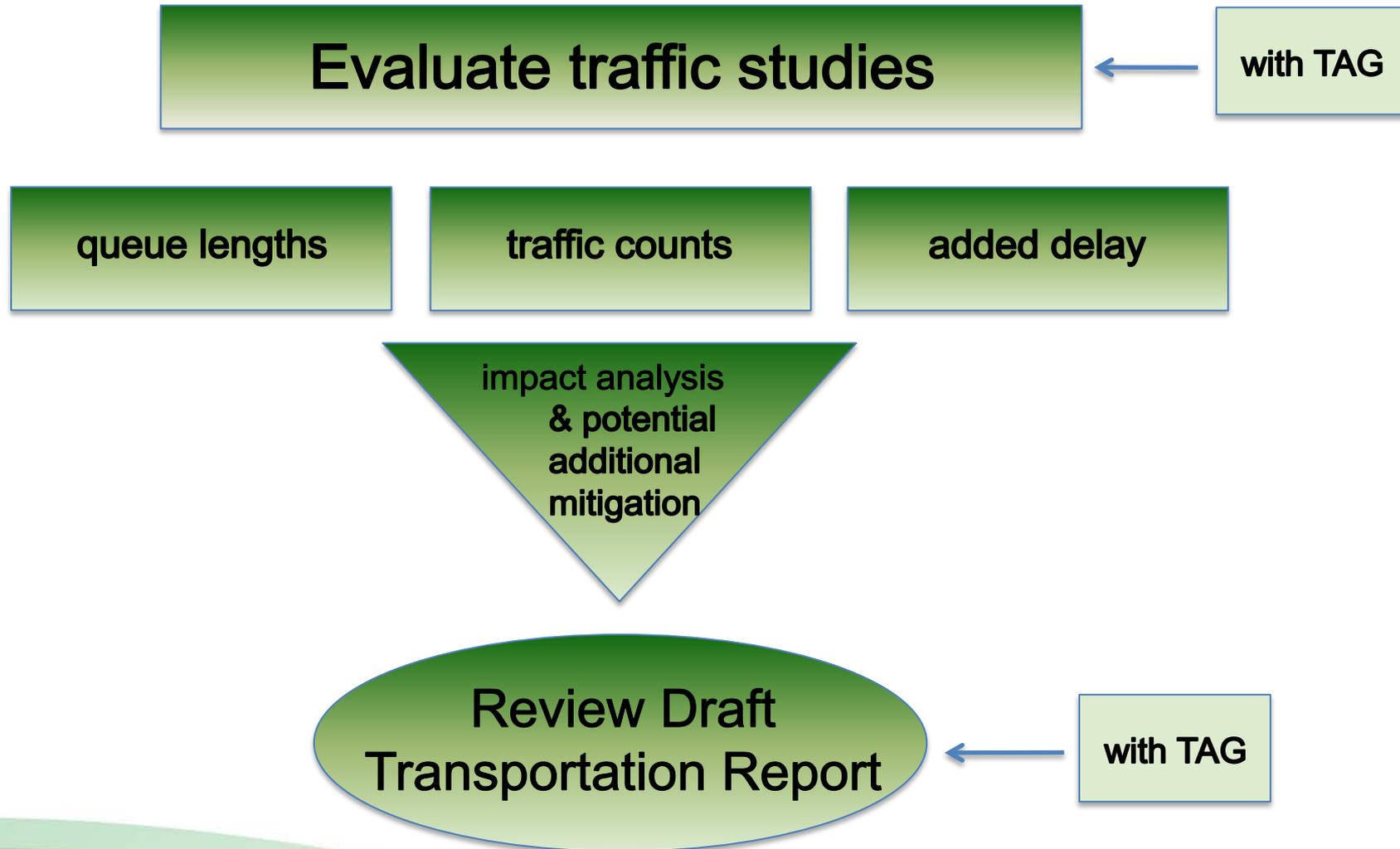
- Maximum Queue for current year on southbound Washington St. goes from 727 feet in no-build alternative to 793 feet in the build alternative.
- Maximum Queue in 2030 on southbound Washington St. goes from 1330 feet in no-build alternative to 1633 feet in the build alternative.



Schedule review

- Feedback due July 1
 - Tracking Sheet
- Traffic study data incorporated into Transportation Report
- Facilitated reviews in October, November

Traffic Memos – what's next?



For more information

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