

West Seattle and Ballard Link Extensions

System Expansion Committee | May 9, 2019

West Seattle & Ballard Link Extensions

Motion No. M2019-51 Identifying Alternatives for DEIS

9 May 2019



Agenda

- Alternatives development process
- Level 3 alternatives and evaluation
- EIS Scoping feedback
- SAG recommendations
- ELG recommendations
- Next steps

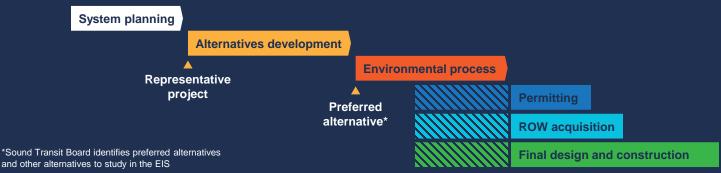


New approach to project development

ST2 process



ST3 process



and other alternatives to study in the EIS

City of Seattle Partnering Agreement

- Partnering agreement executed December 2017
- Identifies project schedule milestones including:
 - Board identification of preferred alternative: Q1/Q2 2019

PARTNERING AGREEMENT BETWEEN THE CENTRAL PUGET SOUND REGIONAL TRANSIT AUTHORITY ("SOUND TRANSIT") AND THE CITY OF SEATTLE FOR THE WEST SEATTLE AND BALLARD LINK EXTENSIONS PROJECT

THIS PARTNERING AGREEMENT ("Agreement") is between the Central Puget Sound Regional Transit Authority, a regional transit authority organized under Chapter 81.112 RCW ("Sound Transit"), and the City of Seattle, a Washington municipal corporation ("City"), for the purposes set forth below. Sound Transit and the City are collectively referred to hereafter as "the Parties" or individually as a "Party."

INTRODUCTION

The ST3 mass transit system expansion approved by the voters in November 2016 is ambitious in scope and the timelines for Implementation are aggressive. The scope and timeline for ST3 are equal to the scope and timeline for the prior two system expansions combined, Sound Move and ST2. Implementing ST3 consistent with the scope, budget, and schedule approved by the voters will take extraordinary effort by Sound Transit and by its federal, state, and local partners.

To meet the challenge of delivering projects as fast as possible, Sound Transit developed a System Expansion Implementation Plan that embraces new ways of working. Those adjustments include internal changes at Sound Transit, as well as new approaches to working with project partners, stakeholders, and local jurisdictions. The implementation plan includes

EXHIBIT D

SCHEDULE MILESTONES

Schedule Objective	Target Date
City Team Identified	Q3 2017
Project Development Begins	Q4 2017
Preliminary Permitting Plan Developed	Q1 2018
North-ord Alkamaktic Commission	01/02 2010
ST Board Identifies Preferred Alternative	Q1/Q2 2019
r roject belivery ivietiloù beletteu	2013
Preliminary Permitting Plan Updated	2019
	2022
Record of Decision & ST Board Selects Project to be Built	2022
Record of Decision & ST Board Selects Project to be Built Final Permitting Plan Developed	2022
Final Permitting Plan Developed	
	2022

nunity engagement,

ve project development

es.

d delivery processes itment to do the same. way of doing business so d by the voters in ST3 on

ment includes specific ollowing:

What is a preferred alternative?

- SEPA / NEPA term
- Makes clear to public where project is headed
- > "Preference" among alternatives to be considered
- Not a final decision or obligation
- Board to also identify other DEIS alternatives in coordination with FTA

Community engagement and collaboration





Neighborhood Forums



Stakeholder Advisory Group



Elected Leadership Group



Sound Transit Board



Meeting dates subject to change.

External engagement overview

During Alternatives Development Phase: Jan 2018 – April 2019



5,600+ comments and questions



189 community briefings



25 email updates



14 Stakeholder Advisory Group meetings



26 fairs, festivals, tabling



Elected Leadership Group meetings



17 open houses, forums, workshops



3 online open houses

Screening process

Level 1

Broad range of initial alternatives

Level 2

Refine remaining alternatives

Level 3

Further evaluation

EIS

Preferred Alternative(s) and other EIS alternatives

EIS alternatives

Identification of EIS alternatives informed by:

Technical evaluation results

 Public feedback gathered during scoping period and documented throughout the year

Racial Equity Toolkit, including findings from evaluation results and community input



Summary of Level 3 alternatives

- **ST3** Representative Project
- West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated
 - C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined
- West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel
 - Junction station options: 41st Ave, 42nd Ave and 44th Ave
 - C-ID station options: 4th Ave Cut-and-Cover and 4th Ave Mined
 - Ballard station options: 14th Ave and 15th Ave



ST3 Representative Project

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West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated

Summary of Level 3 alternatives

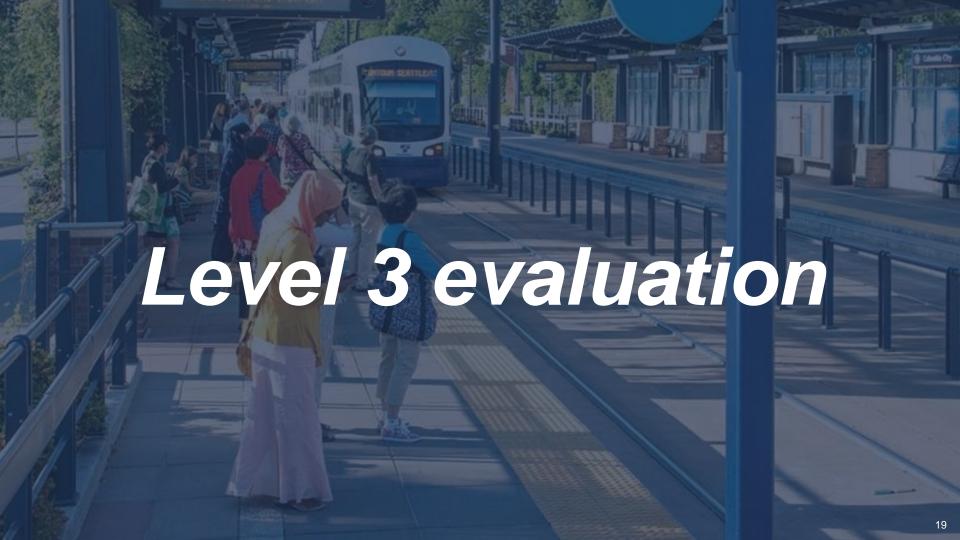
- ST3 Representative Project
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West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel

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- Ballard station options: 14th Ave and 15th Ave



West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel



Preliminary Purpose and Need

Purpose Statement	Symbol
Provide high quality rapid, reliable, and efficient peak and off-peak LRT service to communities in the project corridors as defined in ST3.	
Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet the projected transit demand.	STATION
Connect regional centers as described in adopted regional and local land use, transportation, and economic development plans and Sound Transit's Regional Transit Long-Range Plan.	0
Implement a system that is consistent with the <i>ST3 Plan</i> that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.	O O
Expand mobility for the corridor and region's residents, which include transit dependent, low income, and minority populations.	
Encourage equitable and sustainable urban growth in station areas through support of transit-oriented development, station access, and modal integration in a manner that is consistent with local land use plans and policies.	
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.	

Evaluation criteria

> 17 criteria consistent in all levels of evaluation

- Reliable service
- Travel times
- Regional connectivity
- Transit capacity
- Projected transit demand
- Regional centers served
- ST Long-Range Plan consistency
- ST3 consistency
- Technical feasibility

- Financial sustainability
- Historically underserved populations
- Station area land use plan consistency
- Modal integration
- Station area development opportunities
- Environmental effects
- Traffic operations
- Economic effects

Evaluation measures

- > 50+ quantitative and/or qualitative measures
- > Ratings for Lower, Medium and Higher performing
- Key differentiators and considerations among alternatives
- > Findings focus on key decisions along corridor

Lower Performing

Medium Performing

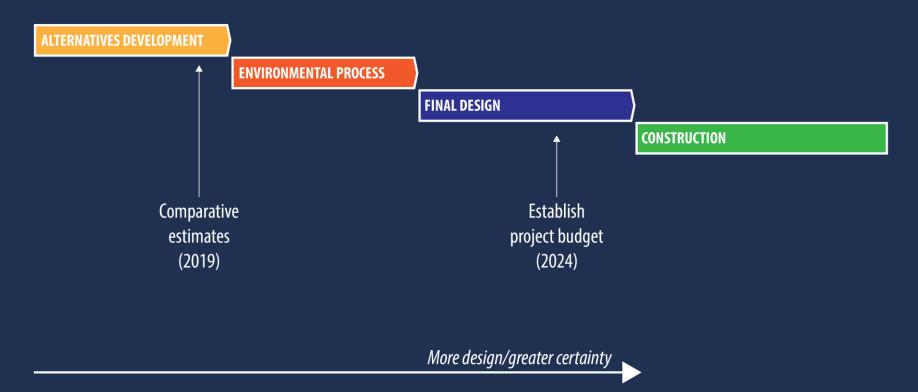
Higher Performing

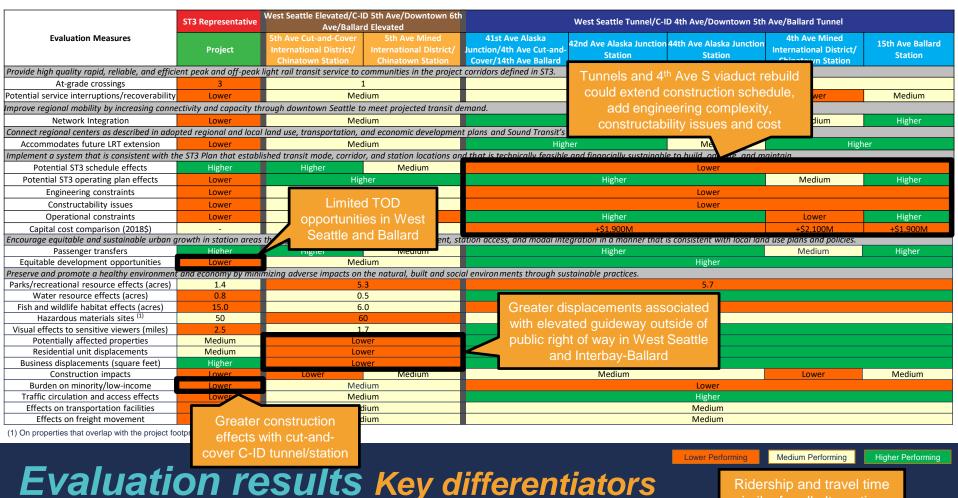
Comparative estimates

> Purpose: To *inform comparison* of Level 3 alternatives

- Comparative estimates for end-to-end alternatives
 - Consistent methodology (2018\$; construction, real estate, etc.)
 - Based on limited conceptual design (less than 5% design)
 - Does not establish project budget
- Project budget established during final design (~ 2024)

Project budget





similar for all alternatives

Segments

West Seattle (Avalon/Junction)

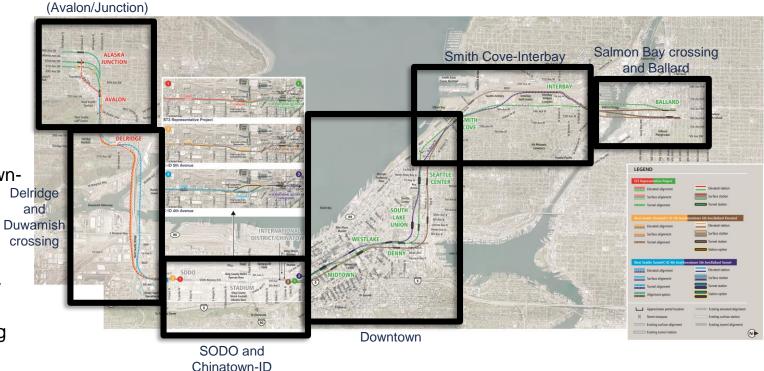
Delridge and Duwamish crossing

SODO and Chinatown-Int'l District

> Downtown

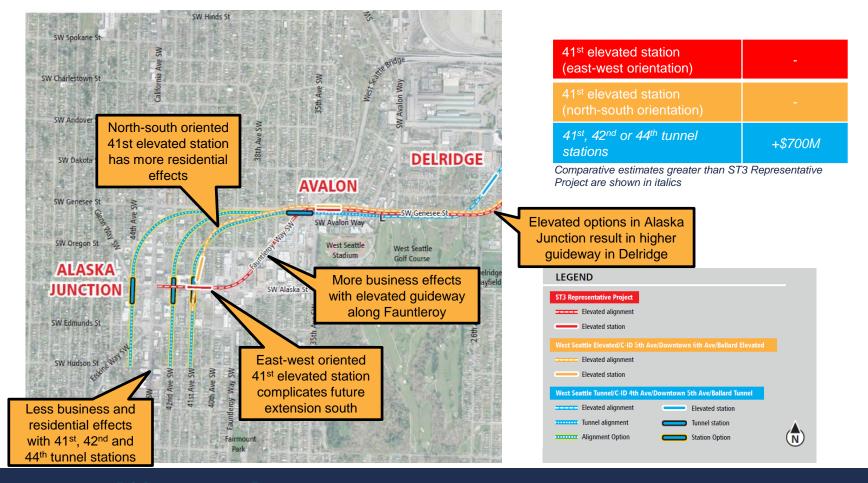
Smith Cove-Interbay

Salmon Bay crossing and Ballard

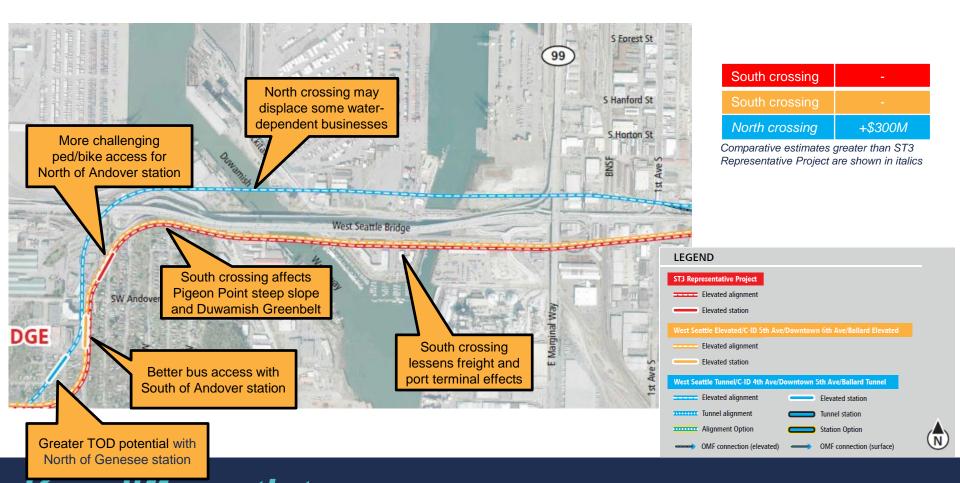


Key differentiators By segment

West Seattle



Key differentiators West Seattle (Avalon/Junction)

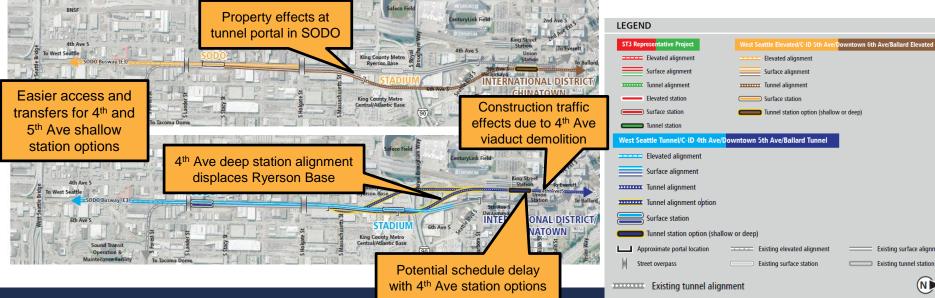


Key differentiators Delridge and Duwamish crossing

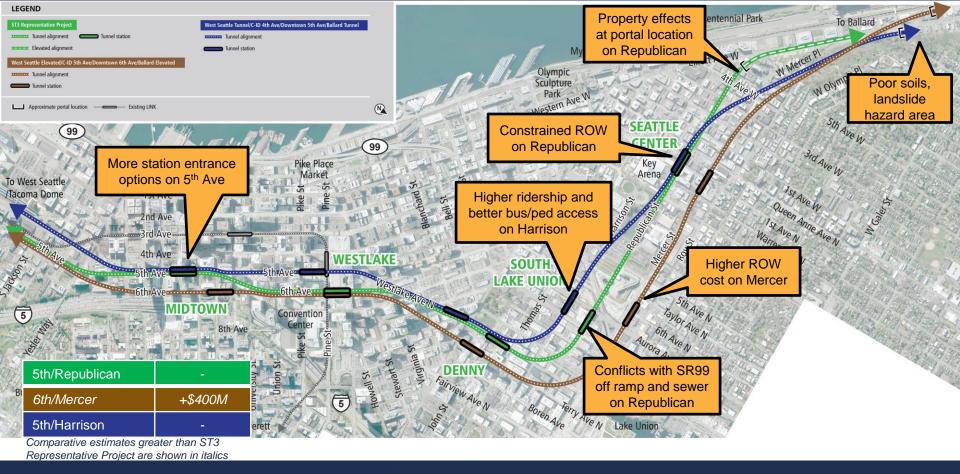


5 th Ave shallow (ST3)	-	
5 th Ave shallow station	-\$200M	
5 th Ave deep station	-	
4 th Ave shallow station	+\$300M	
4 th Ave deep station	+\$500M	
Comparative estimates greater than ST3 Representative		

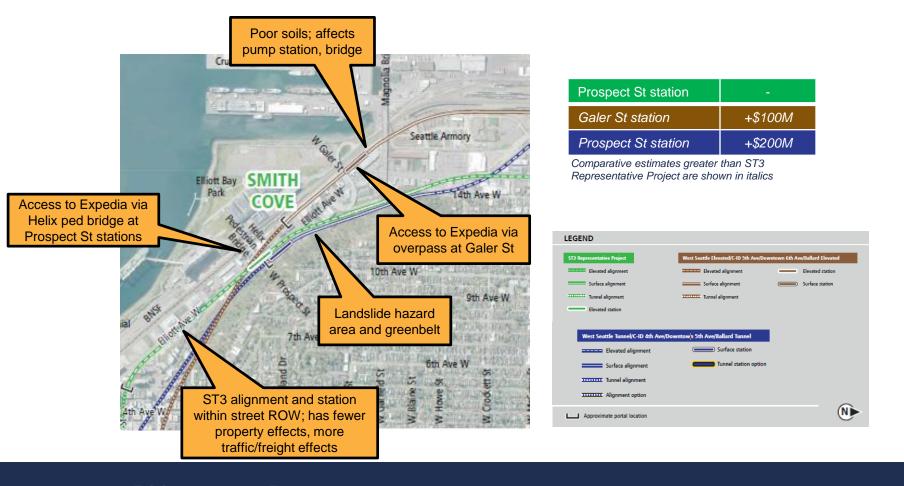
Proiect are shown in italics



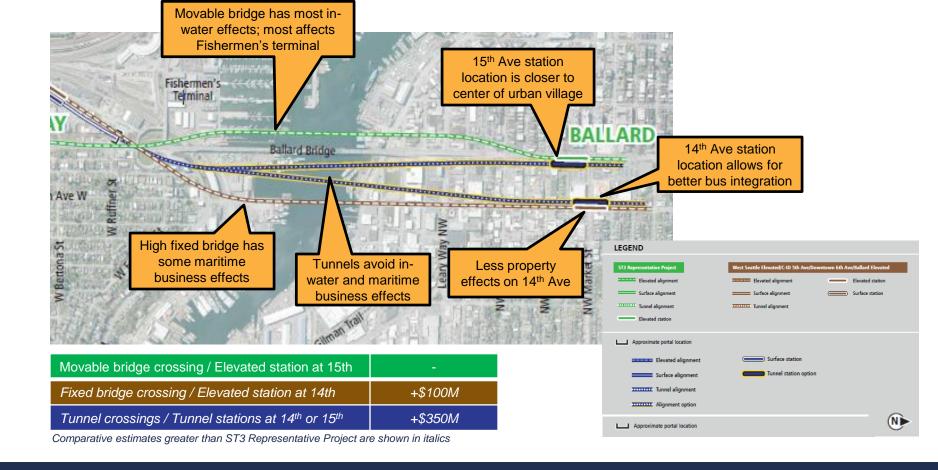
Surface alignment Tunnel alignment Tunnel station option (shallow or deep) West Seattle Tunnel/C-ID 4th Ave/Downtown 5th Ave/Ballard Tunnel Existing elevated alignment Existing surface alignment Existing surface station Existing tunnel station (N)



Key differentiators Downtown



Key differentiators Smith Cove-Interbay



Key differentiators Salmon Bay crossing and Ballard



What is EIS Scoping?

- Part of federal and state environmental review process
- 45-day public comment period Feb. 15 to April 2
- Requested public feedback on scope of EIS
 - Range of alternatives
 - Purpose and need
 - Topics to study
- Informs Board identification on what to study in EIS*

^{*} Scope of EIS also subject to Federal Transit Administration (FTA) oversight



Scoping Information Report

February 2019

SOUNDTRANSIT

West Seattle and Ballard Link Extensions

Online Open House



Welcome! Please sign in to our online open house

Scoping overview

- Scoping: Feb. 15 to April 2
- Notification via postcards, advertisements, project website, email updates, press releases, social media, agency invitation letters, etc.
- 3 public meetings in Feb/March
- Online open house
- 1 agency meeting
- Other methods to comment



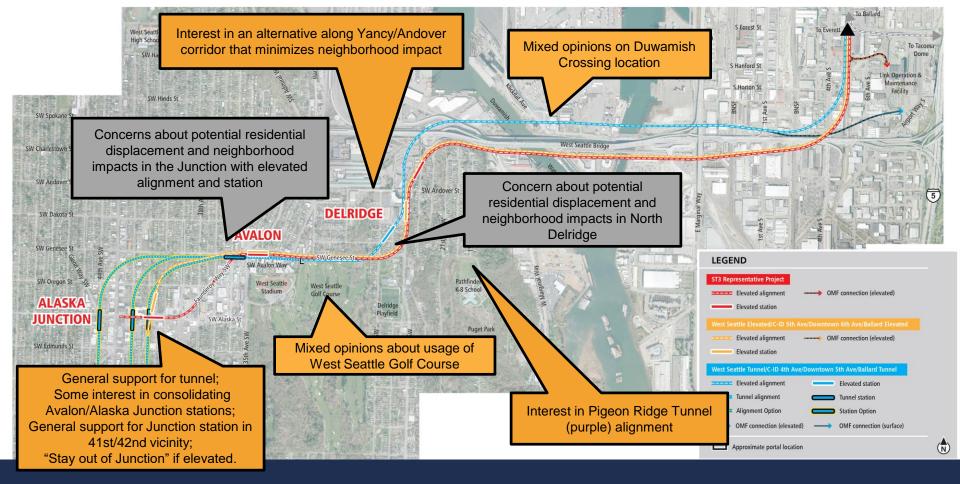
Scoping highlights

- 475 people attended three public meetings
- 11,700+ unique visitors viewed the online open house
- 6 agencies participated in agency scoping meeting
- 2,700+ total comments received via meetings and other methods
- All comments captured in Scoping Summary Report

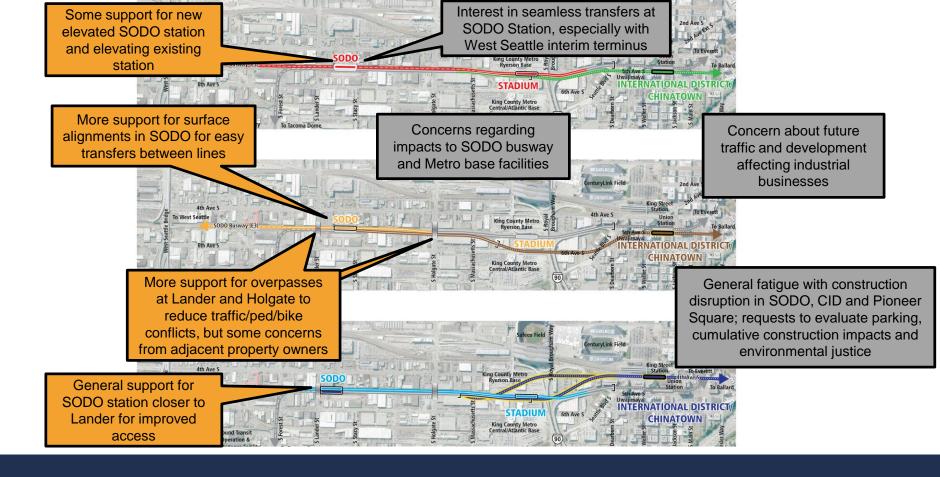


Scoping feedback

- General comments i.e., build it faster, plan for 100-year investment, etc.
- Feedback regarding alignments and stations
- EIS topics for evaluation i.e., construction, environmental justice, neighborhood/ community impacts, TOD/housing
- Concerns regarding property impacts
- Comments regarding third party funding



Scoping feedback West Seattle/Duwamish crossing

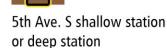


Scoping feedback sopo



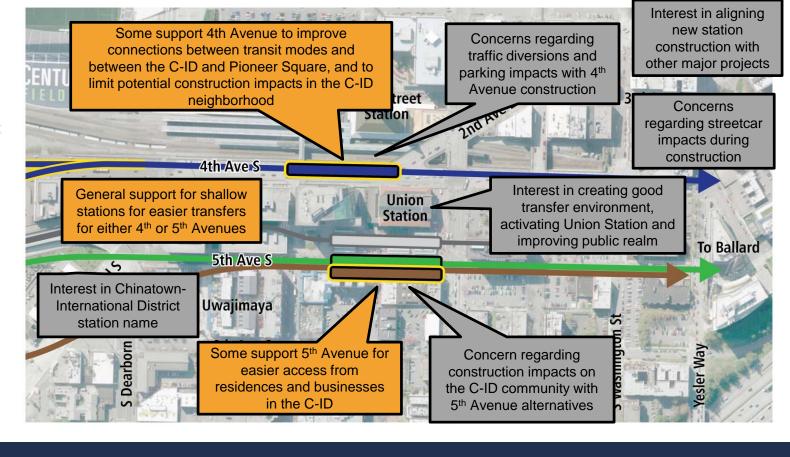


ST3 Representative Project

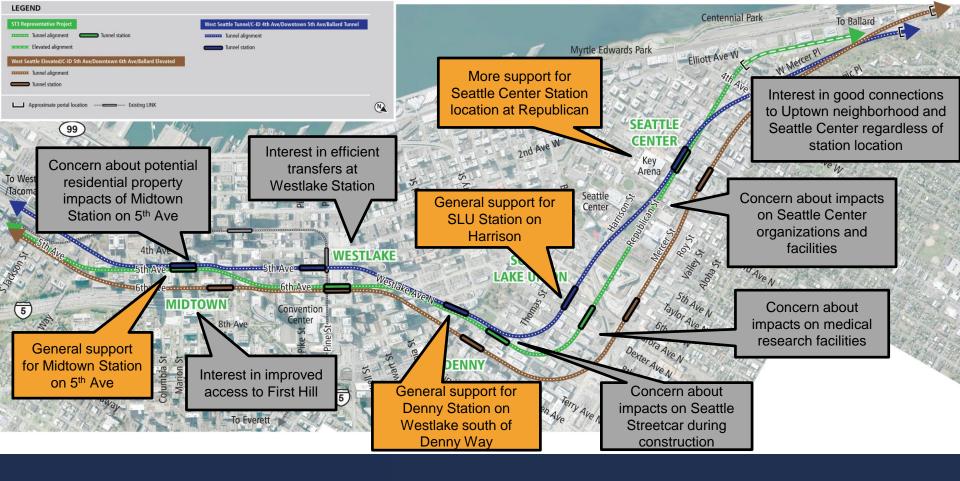


4th Ave. S shallow station or deep station

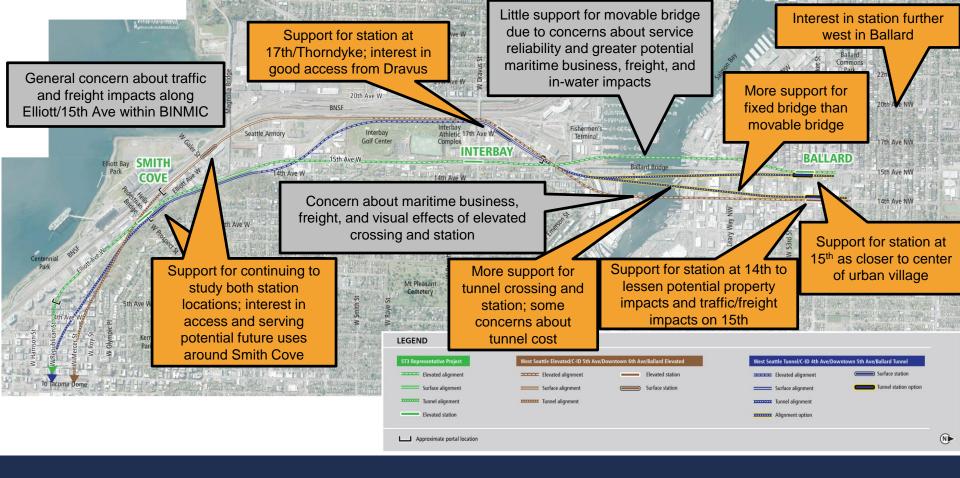




Scoping feedback Chinatown-ID



Scoping feedback Downtown



Scoping feedback Smith Cove/Interbay/Ballard

Equity & Inclusion

- Sound Transit & City of Seattle partnership utilizing the Racial Equity Toolkit (RET)
- Working group structure focused on engagement and data analysis
- Collaboration to elevate issues and considerations to better inform the alternatives development process
- Strive to provide information that data alone cannot provide
- What's next?: Report back to community members and continue engagement through EIS process and EJ analysis

Racial Equity Toolkit



to Assess Policies, Initiatives, Programs, and Budget Issues

The vision of the Seattle Race and Social Justice Initiative is to eliminate racial inequity in the community. To do this requires ending individual racism, institutional racism and structural racism. The Racial Equity Toolkit lays out a process and a set of questions to guide the development, implementation and evaluation of policies, initiatives, programs, and budget issues to address the impacts on racial equity.

When Do I Use This Toolkit?

Early. Apply the toolkit early for alignment with departmental racial equity goals and desired outcomes.

How Do I Use This Toolkit?

With Inclusion. The analysis should be completed by people with different racial perspectives.

Step by step. The Racial Equity Analysis is made up of six steps from beginning to completion:

Step 1. Set Outcomes.

Leadership communicates key community outcomes for racial equity to guide analysis.

Step 2. Involve Stakeholders + Analyze Data.

Gather information from community and staff on how the issue benefits or burdens the community in terms of racial equity.

Step 3. Determine Benefit and/or Burden.

Analyze issue for impacts and alignment with racial equity outcomes.

Step 4. Advance Opportunity or Minimize Harm. Develop strategies to create greater racial equity or minimize unintended consequences.

Step 5. Evaluate. Raise Racial Awareness. Be Accountable.

Track impacts on communities of color overtime. Continue to communicate with and involve stakeholders. Document unresolved issues.

Step 6. Report Back.

Share information learned from analysis and unresolved issue with Department Leadership and Change Team.

Racial Equity Toolkit Level 1 Evaluation

- ✓ Data analysis showed areas of focus; Chinatown/ID and Delridge
- ✓ Determined shared outcomes
- ✓ Updated screening criteria

Figure: Concentrated communities of color (non-white population)

Source: 2011-2016 American Community Survey, projected in ArcGIS Online WSBLE Community Conditions Basemap



Racial Equity Toolkit Level 2 Evaluation

- Measured connections, potential impacts and opportunities
- Gathered and shared community input



Level 2 RET Memo

September 2018



Racial Equity Toolkit Level 3 Evaluation

Chinatown / ID Station

- Limit harmful impacts,
- · Maximize connections for all users, and
- 100-year vision for the station.

Delridge Station

- Bus-rail integration; and
- Equitable transit-oriented development serving the community.

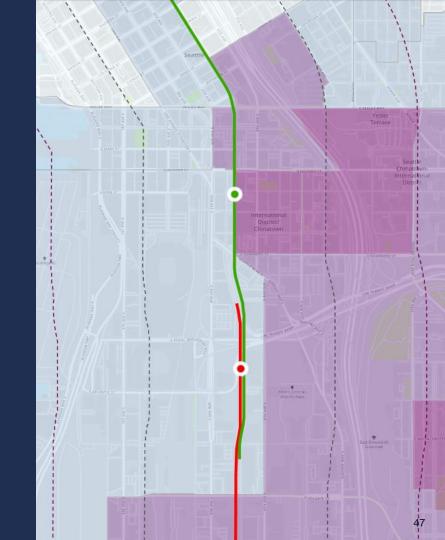


Level 3 RET findings Chinatown / ID Station

Based on the Level 3 evaluation results and community feedback, it is unclear which alternative(s) would pose the greatest net benefit for the unique, multicultural communities that live and work in the surrounding south downtown neighborhoods.

Figure 1: Communities of Color in ½ mile catchment of C/ID and South Downtown

Source: 2011-2016 American Community Survey, projected in ArcGIS Online WSBLE Community Conditions <u>Basemap</u>

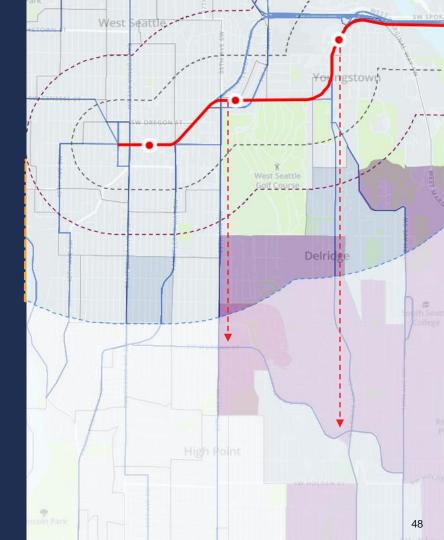


Level 3 RET findings Delridge Station

Based on the Level 3 evaluation results and community feedback, the Delridge Station included as part of the ST3 Representative project offers the fewest net benefits to communities of color and low-income communities, in terms of busrail integration and opportunities to support equitable TOD.

Figure 2: Communities of color beyond 1/2-mile catchment of Delridge and Avalon Stations and major bus routes

Source: 2011-2016 American Community Survey, projected in ArcGIS Online WSBLE Community Conditions Basemap)





Segments with comparative estimates greater than ST3 Representative Project are shown in italics. Estimates not available for "Scoping feedback" suggestions.

West Seattle

Tunnel/ C-ID 4th

/Downtown 5th/

Ballard Tunnel

41st, 42nd, or 44th

tunnel station

N of Genesee station

West Seattle

Elevated/ C-ID 5th

/Downtown 6th/

Ballard Elevated

41st elevated station

S of Andover station

ST3

Representative

Project

41st elevated station

(east-west oriented)

N of Andover station

Segment

West Seattle

West Seattle

(Avalon/

Junction)

(Delridge)				Yancy/Andover
Duwamish crossing	South crossing	South crossing	North crossing	Pigeon Ridge Tunnel alignment
SODO/ Chinatown-ID	E3 elevated / 5 th shallow station	E3 at grade / 5 th shallow or deep station	E3 at grade / 4 th shallow or deep station	Elevate new and existing SODO station
Downtown	5 th and Republican	6 th and Mercer	5 th and Harrison	NA
Smith Cove	Prospect St station	Galer St station	Prospect St station	NA
Interbay/ Ballard	Movable bridge with	High fixed bridge with	Tunnel with 14 th or	Tunnel with 20 th

SAG

recommendation

TBD

TBD

TBD

TBD

TBD

TBD

Scoping

feedback

Pigeon Ridge

Tunnel or

Segment	SAG recommendation		Notes
West Seattle (Avalon/Junction)	41 st or 42 nd tunnel station		
West Seattle (Delridge)	N of Genesee station	Pigeon Ridge Tunnel (former purple line)	Support for Delridge station locations that are farther south
Duwamish crossing	South crossing		
SODO/ Chinatown-ID			Majority interest in studying all options
Downtown	5 th and Harrison		
Smith Cove	Prospect St station		
Interbay/ Ballard	Tunnel with 15 th tunnel station	Tunnel with 20 th tunnel station	General support for tunnel crossing and serving the Ballard urban village

SAG Recommendation: If 3rd party funding is secured



Segment	SAG recommendation		Notes
West Seattle (Junction)	Elevated station with refinements	41 st or 42 nd tunnel station with consolidated Alaska and Avalon	Interest in a modified ST3 Representative Project Alaska Junction station, oriented North/South staying east of the Alaska Junction
Vest Seattle Delridge)	N of Genesee station		
Duwamish crossing	South crossing		
SODO/ Chinatown-ID			Majority interest in studying all options
Downtown	5 th and Harrison		
Smith Cove	Prospect St station	Prospect St station	
nterbay/ Ballard			Mixed opinions, with interest in studying fixed bridge and tunnel. No support for movable bridge.

SAG recommendation

Seament

SAG Recommendation: If 3rd party funding not secured

Notes





West Seattle West Seattle ST3 Elevated/ C-ID 5th Tunnel/ C-ID 4th **Scoping** Segment Representative /Downtown 6th/ /Downtown 5th/ feedback

Segments with comparative estimates greater than ST3 Representative Project are shown in italics. Estimates not available for "Scoping feedback" suggestions.

Project Ballard Elevated Ballard Tunnel West Seattle 41st elevated station 41st elevated station 41st, 42nd, or 44th (Avalon/ tunnel station (east-west oriented) Junction)

N of Andover station

West Seattle

(Delridge)

N of Genesee station

Pigeon Ridge

Tunnel or

Yancy/Andover

Duwamish Pigeon Ridge South crossing North crossing Tunnel alignment crossing Elevate new and **SODO** E3 elevated E3 at grade E3 at grade existing SODO station 5th shallow or deep 4th shallow or deep Chinatown-ID 5th shallow station station station 5th and Republican 6th and Mercer 5th and Harrison NA Downtown **Smith Cove** Prospect St station Galer St station Prospect St station NA Tunnel with 14th or Tunnel with 20th

S of Andover station

Movable bridge with High fixed bridge with Interbay/ Ballard 15th elevated station 14th elevated station 15th tunnel station tunnel station Summary of Level 3 alternatives

FI G

recommendation

TBD

TBD

TBD

TBD

TBD

TBD

Segments with comparative estimates greater than ST3 Representative Project are shown in italics

Segment	Recommendation		Notes
West Seattle (Avalon/ Junction)	41 st or 42 nd tunnel station	Elevated station with refinements	No support for the orange Alaska Junction Station option. Recommended an elevated to study but more support for tunnel.
West Seattle (Delridge)	Station north of Genesee with refinements		
Duwamish crossing	South crossing		
SODO	E3 at grade		
Chinatown-ID	Majority interest to study all options		
Downtown	5 th and Harrison		Study both 5 th and 6 th Ave alignments through Westlake and Midtown Stations
Smith Cove	Prospect St station	Galer St station	
Interbay/ Ballard	Tunnel with 14 th or 15 th tunnel station	High fixed bridge with 14 th elevated station	No support for movable bridge. Recommended an elevated to study but more support for tunnel.

ELG Recommendations

Interbay/ Ballard

- General support for tunnel option across Salmon Bay
- ✓ Interest in continuing to study the fixed bridge in the DEIS as an elevated alternative to the tunnel option
- ✓ Potential refinements to the Ballard Station should optimize bus/rail integration and access to the Ballard urban village (such as improved connections across 15th Avenue NW)
- ✓ Mixed opinions about the new Tunnel with 20th tunnel station option and requests for more information to inform Sound Transit Board discussions – concerns about potential disruption to the neighborhood and feasibility, but interest in serving Ballard further west with a tunnel



Smith Cove

✓ Interest in Smith Cove Station at Galer Street to better serve potential future development, connect to the Port's cruise terminals, and reduce costs

Downtown

- ✓ Given broad community support, study the 5th Harrison (blue) alignment, understanding there may be design refinements
- ✓ Study 5th and 6th Avenues from Westlake through Midtown Stations, looking for opportunities to optimize transfers and bus integration with Madison BRT



Chinatown-ID

- ✓ Based on community feedback and technical work so far, interest in advancing all alternatives for the C-ID station and activating union station
- Concern with potential impacts to Ryerson Base and bus operations
- Concern about deep stations and long-term operational impacts (relying on elevators with a large volume of transfers)
- ✓ Balance near-term construction impacts with long term operations



SODO

- Questions about two elevated stations option at SODO
- Support for E3 at grade with vehicle overpasses, being mindful of impacts to adjacent property owners
- ✓ Need to continue to examine the impact to bus transit currently using the E3 busway



Duwamish Crossing

Questions about the need for studying the north crossing in the DEIS as a 4f avoidance alternative

Delridge

- Some interest to explore a refined south crossing that includes a tunnel through Pigeon Point, with a further south Delridge station location and reduced neighborhood residential impacts; requests for more information to inform Sound Transit Board discussions
- ✓ Interest in refining the blue station location, prioritizing further south location and looking for opportunities to minimize residential impacts, create a high quality transfer environment, optimize TOD potential and reduce costs
- ✓ Interest in exploring a Yancy/Andover alignment to minimize neighborhood impacts with a Delridge Station serving Youngstown



West Seattle (Avalon and Alaska Junction)

- Support for retaining Avalon Station, but continue to evaluate potential cost savings opportunities including consolidating stations and implications for ridership
- ✓ Support for looking for opportunities to minimize community impacts and create high quality transfer environment for both Avalon and Alaska Junction station locations
- Support for underground alignment to support TOD potential
- ✓ Support for a modified ST3 Representative project (Alaska Junction station oriented North/South and staying east of the Alaska Junction on Fauntleroy or in the vicinity of Jefferson Square)



General Feedback

- ✓ Discussion about process and recommendations to the Sound Transit Board: mixed opinions about making recommendations on two alternatives, one if third party funding is secured and one if third party funding is not secured
- ✓ Discussion of need to look at potential sources of third party funding if project elements beyond the scope of the ST3 Representative project are carried forward; some interest in establishing a working group to consider third party funding
- ✓ Interest in further refinements and evaluation before identifying sources of third party funding





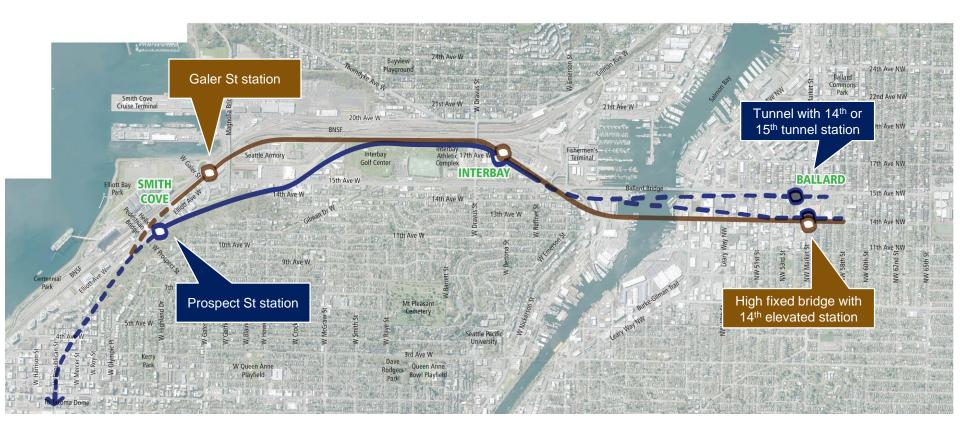
ELG Recommendations West Seattle/Duwamish



ELG Recommendations SODO/Chinatown-ID



ELG Recommendations Downtown



ELG Recommendations Interbay/Ballard



ELG Recommendations Summary

SODO/CID	E3 elevated / 5 th shallow station	E3 at grade / 5 th shallow (-\$200M) or deep station (+\$0)	E3 at grade / 4 th shallow (+\$300M) or deep station (+\$500M)
Downtown	5 th and Republican	5 th and Harrison (+\$0)	5 th and Harrison (+\$0)
Smith Cove	Prospect St station	Galer St station (+\$100M)	Prospect St station (+\$200M)
Interbay/ Ballard	Movable bridge with 15 th elevated station	High fixed bridge with 14 th elevated station (+\$100M)	Tunnel with 14 th or 15 th tunnel station (+\$350M)
Total	-	+\$0 to +\$200M	+\$1,550M to +\$1,750M
Segments with comparative estimates greater than ST3 Representative Project are shown in italics Does not include alternatives suggested during EIS Scoping as comparative estimates are not available			

ELG recommendations

(low estimate)

Elevated station with refinements

(+\$0)

Station north of Genesee with refinements

(+\$0)

ST3 Representative

Project

41st elevated station

(east-west oriented)

N of Andover station

South crossing

Segment

West Seattle

(Avalon/Junction)

West Seattle (Delridge)

Duwamish crossing

ELG Recommendations Comparative estimates

ELG recommendations

(high estimate)

41st, 42nd tunnel station

(+\$700M)

Station north of Genesee with refinements

(+\$0)



Environmental Review Phase



VOTER APPROVAL

**

PLANNING 2017–2022

WE ARE HERE

2016

Alternatives development 2017–2019

- Early scoping
- Scoping
- ST Board identifies preferred alternative and other alternatives

Environmental Review

2019-2022

- Draft Environmental Impact Statement
- Final Environmental Impact Statement
- ST Board selects project to be built
- Federal Record of Decision

PUBLIC INVOLVEMENT



DESIGN 2022–2026*

- Final route design
- Final station designs
- Procure and commission station and public art
- Obtain land use and construction permits
- Property acquisition/relocation

PUBLIC INVOLVEMENT



- Groundbreaking
- Construction updates and mitigation
- Safety education
- Testing and preoperations

PUBLIC INVOLVEMENT / TESTING

START OF SERVICE



West Seattle: 2030 Ballard: 2035

Environmental Review



West Seattle & Ballard Link Extensions DSTT Capital Improvements

Motion No. M2019-52
Contract modification with HNTB Corporation

9 May 2019



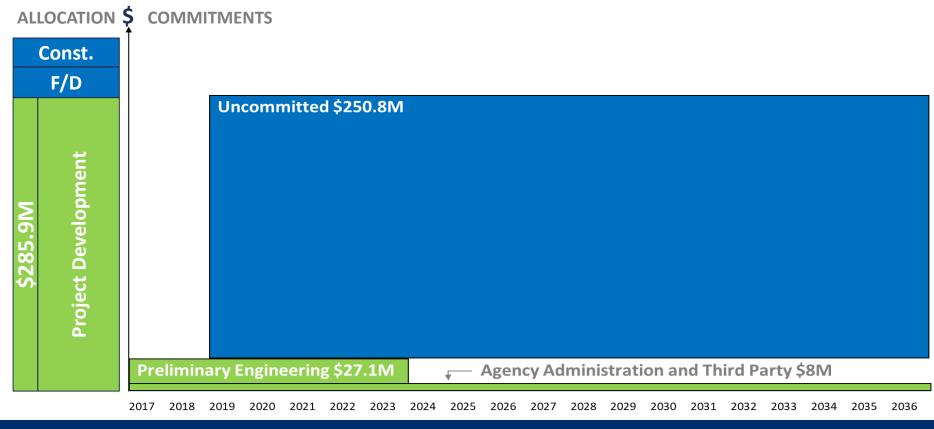
Contract Modification

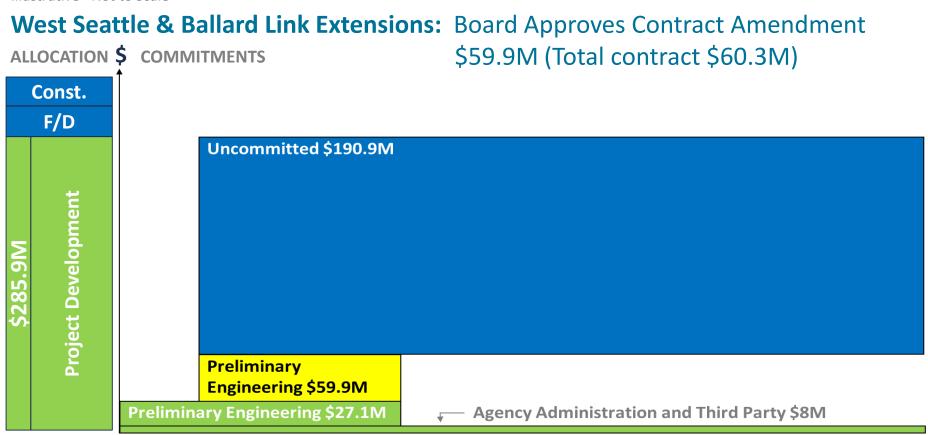
- Motion No. M2017-119 Authorized Contract with HNTB
- Option to modify contract for each phase of project development
- Scope
 - Phase 1: Alternatives Development complete
 - > Phase 2: Draft EIS and Conceptual Engineering this action
 - Phase 3: Final EIS and Preliminary Engineering

Phase 2 Scope

- Draft EIS analysis and related design support
- Advanced conceptual engineering and geotechnical analysis
- Station planning and urban design
- Permit streamlining, agency coordination
- Community outreach and engagement
- Study of potential improvements to existing Westlake Station

West Seattle & Ballard Link Extensions: Authorized Project Allocation \$285.9M





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DSTT Capital Improvements: Authorized Project Allocation \$10M

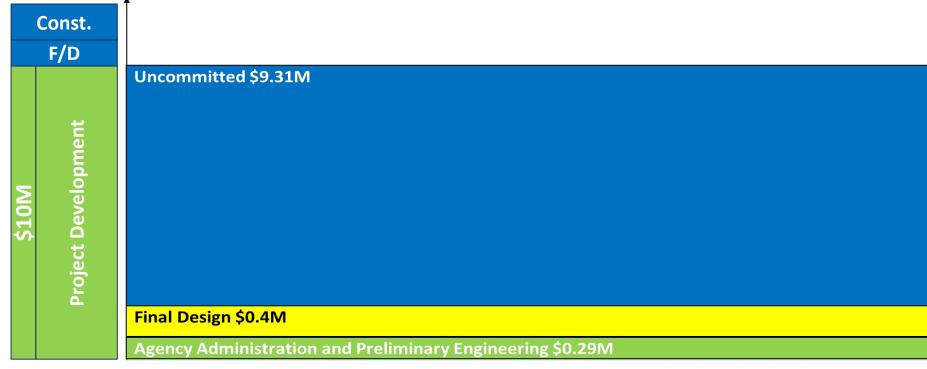
ALLOCATION \$ COMMITMENTS Const. F/D **Uncommitted \$9.71M Project Development**

> 2019 2020

Agency Administration and Preliminary Engineering \$0.29M



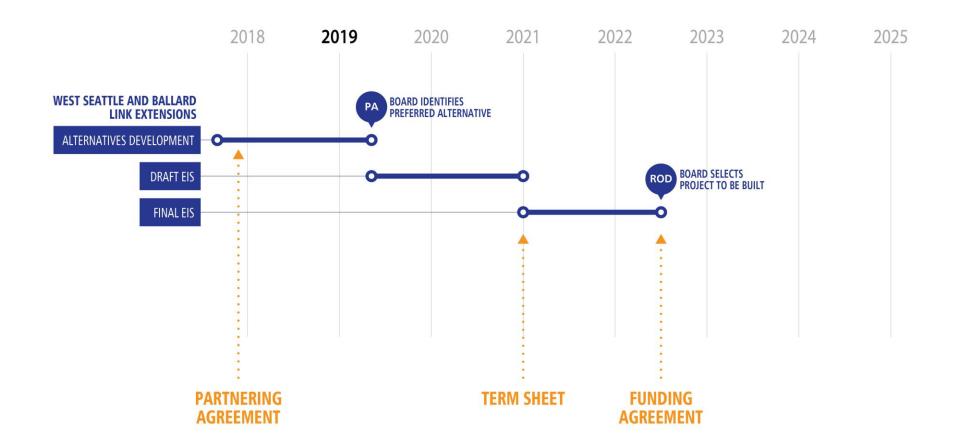
DSTT Capital Improvements: Board Approves Contract Amendment \$0.4M (Total contract \$60.3M) ALLOCATION \$ COMMITMENTS

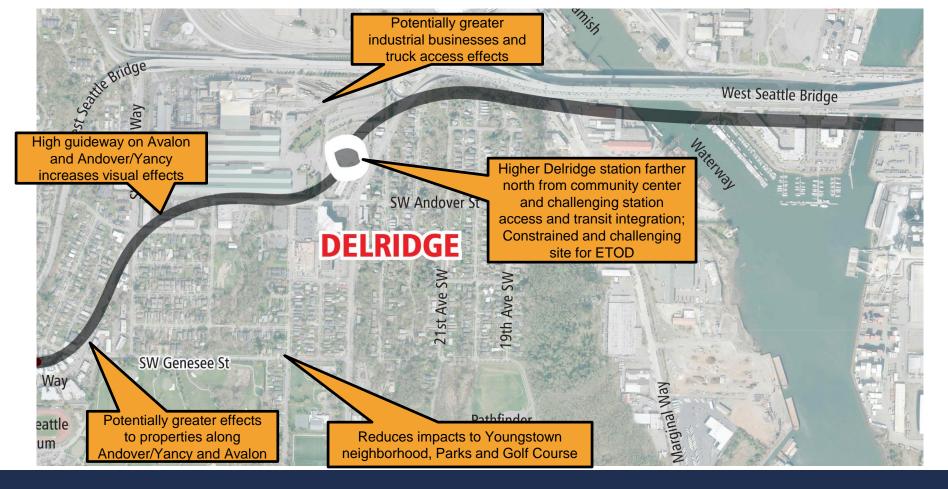


2019 2020

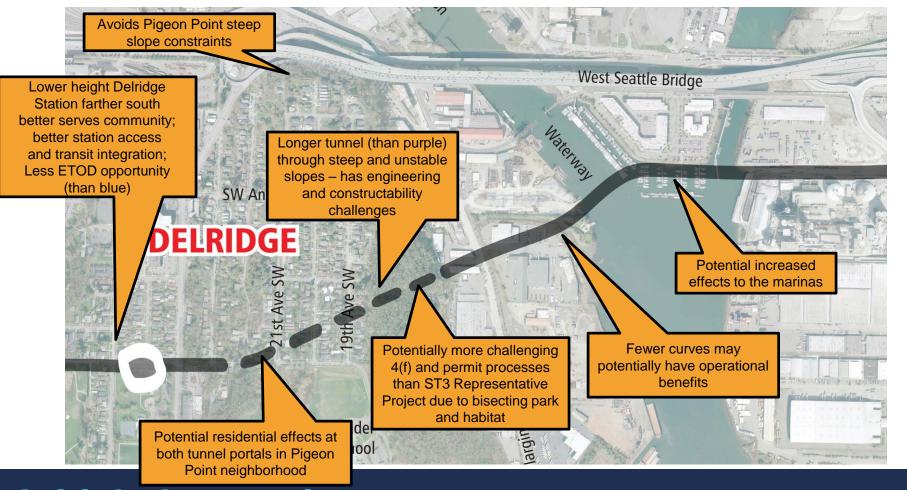




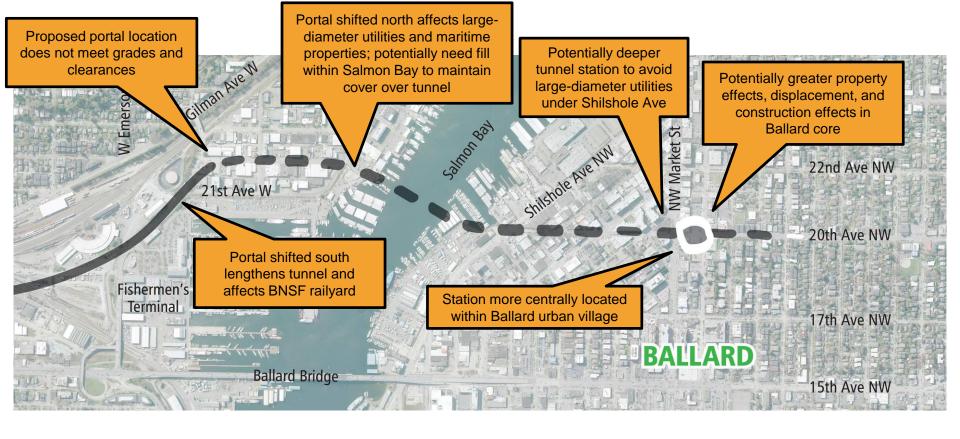




Initial observations Yancy/Andover



Initial observations Pigeon Point Tunnel



Initial observations 20th Tunnel