Everett Link Extension

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SOUND TRANSIT

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Торіс	Time
Introductions and meeting objectives	10 min
Schedule updates	10 min
Level 2 evaluation and criteria	30 min
Introduction to station planning and design	35 min
Elected Leadership Group discussion	30 min
Next steps	5 min



Meeting expectations



WE'RE COMMITTED TO STARTING ON TIME AND ENDING ON TIME



MEETING FACILITATOR WILL GUIDE DISCUSSION



WE'RE CREATING SPACES FOR ALL VOICES TO BE HEARD



TAKE ADVANTAGE OF THE "RAISE HAND" FEATURE



PLACE MICROPHONES ON MUTE WHEN NOT TALKING





Schedule updates

Alternatives development process





Community engagement & collaboration





Level 2 Evaluation

New alternatives from early scoping

What we've been doing:

- Reviewing all early scoping (public) comments
- Developing draft alternatives from those comments, considering technical challenges and opportunities

Where we are now:

• Sharing new alternatives that will be evaluated in Level 2



New alternatives from early scoping

I-5 / Interurban Trail

- Alignment: along I-5
- Stations: new option at Everett Mall and additional station option at Mariner

SR 99 / Evergreen Way

- Alignment: along SR 99 & Evergreen Way
- Stations: additional station options at SR 99/Airport Rd and SR 526/Evergreen





OMF Sites for New Alternatives

Potential OMF sites

- An OMF is required for any extension north.
- Identification of potential OMF North sites to support new alternatives suggested in early scoping.





Initial CAG feedback to new alternatives

- Appreciate Sound Transit responding to community interest in other alternatives.
- Concern about new alignments not serving populations near SW Everett Industrial Center and/or SR99 and Evergreen.
- Interest in options that provide service more quickly and at lower cost.





Level 2 evaluation

Evaluating Station, Alignment and OMF Alternatives

- Evaluate the performance of station and alignment alternatives at three different scales:
 - 1. Individual **stations** and small parts of surrounding alignment
 - 2. Three larger alignment **sections**: North, Central and South
 - 3. End-to-end alignments
- Evaluate OMF layouts, site impacts and connections to main alignment



North Section







Central Section







South Section







Key criteria for Level 2 evaluation

- Ridership forecast
- Comparative costs between alternatives
- Transit-oriented development potential
- Service to community facilities & growth centers
- Potential burdens on residences and businesses
- Construction challenges
- Equity



Example Level 2 Criteria & Measures

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

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.







Introduction to station planning and design

Station planning and design Why

- Coordination with transit agencies and local jurisdictions
- Informs Level 2 analysis

Today's meeting

- Understand terminology and graphics
- Components of a station and layout

Next two meetings

- Initial design concepts
- Trade-offs





Station area planning

We need to consider:

ST Link Station

Station Context: area immediately adjacent to and/or surrounding the station

Station Area: 10-minute walkshed or ½-mile radius of the station





Station areas

- 10-minute walksheds
- Key transit routes
- Existing bike facilities



Station areas

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Station design concepts

Elements

- Kiss-and-ride
- Bus layover and connection
- Pedestrian and bike facilities
- Circulation
- Parking



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Station site concept plans

Concepts include space requirements for station elements



Level 2 concept example

• Station platform/entries & alignment



- Transit plaza/site elements
- Bus drop-off and layover spaces



• Pick-up/drop-off, paratransit, etc.



Example of a 2D site layout





Example of 3D Visualizations















Transit integration

Develop & incorporate assumptions for Level 2 alternatives based on transit partners inputs

- ✓ Transit routes
- ✓ Bus layover needs
- ✓ Connections





Level 2 evaluation of station designs

- Next meetings: 2D design concepts for station alternatives and preliminary findings from analysis
- Remember that designs are conceptual and will be refined
- Design concepts are used to evaluate alternatives against Level 2 criteria





Level 2 concept example



Next Steps

Schedule look ahead

Month	Activity
Oct and Dec	ELG meetings to review station designs; preliminary findings and results of analysis; updates on new alternatives
Dec	Public scoping period to provide comment on Level 2 alternatives
Jan	CAG meeting to provide recommendations to ELG
Feb/Mar	ELG recommends to ST Board preferred alternative and other alternatives to move into environmental review
Mar/Apr	ST Board decision







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Level 2 Criteria & Measures

Stations and Alignments

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Provide high quality, rapid, reliable, accessible and efficient light rail transit service to communities in the project corridor as defined through the local planning process and reflected in the Sound Transit 3 Plan.

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Transit Service Reliability	Section End-to-end	Comparative travel time on alignment sections based on track configuration
Compatibility with Potential Extensions	North Section	Potential for future expansion based on previous investment studies


Stations and Alignments

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Improve regional mobility by increasing connectivity and capacity in the EVLE corridor from the Lynnwood Transit Center to the Everett Station area to meet projected transit demand.

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Community Services & Facilities	Station	Community assets such as cultural uses, medical clinics and hospitals, grocery stores, charitable uses and parks accessible from station alternatives
Modal Integration Station		Quality and capacity of transit transfers and connectivity with High-Capacity Transit
Modal Integration	Otation	Quality of access for transit vehicles
		Planned level of bus service
Transit Demand E	nd-to-end	Forecasted average daily ridership



Stations and Alignments

Purpose & Need Statement

• Evaluation Criteria

Evaluation Measures

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.







Stations and Alignments

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Implement a system that is technically and financially feasible to build, operate, and maintain.

		Constructability risks including geotechnical and access challenges and conflicts with utilities, infrastructure and existing buildings	
Technical Feasibility	Station	Right-of-Way constraints and available publicly owned right-of-way	
		Consideration of operational and maintenance elements	
		Constructability constraints including MOT and access	
Financial	Section	Conceptual cost comparison and ability to meet or advance target schedule	
Feasibility	End-to-end	Ability to meet or advance project delivery date	



Stations and Alignments

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Expand mobility for the corridor and region's residents, including explicit consideration for transit-dependent, lowincome and minority populations.



		Existing minority population within a 10-minute walk
Opportunities for Minority, Low-Income, and LEP populations	Station	Existing low-income population within a 10-minute walk
	Section	Existing population with low English proficiency within a 10-minute walk
Low Wage and Minority Station		Low-wage jobs within a 10-minute walk
Employment	Section	Jobs that employ minority workers within a 10-minute walk
Opportunities for		Existing population with a disability within a 10-minute walk
Youth and Senior Populations, Zero-Car Households and People with a Disability	Station	Existing zero-car households within a 10-minute walk
	Section	Existing youth (<18) population within a 10-minute walk
		Existing senior (65+) population within a 10-minute walk



Stations and Alignments





Stations and Alignments

Purpose & Need Statement

• Evaluation Criteria

Evaluation Measures

Encourage equitable and sustainable growth in station areas through support of transit-oriented development and multimodal integration in a manner that is consistent with local land use plans and policies, including Sound Transit's Equitable Transit Oriented Development Policy and Sustainability Plan.



Station Area Land Use Plan Consistency	ation	Consistency with local land use plans, zoning and future land use	
		Development Capacity within the station area in terms of residential units and non-residential square footage from the Land Use Planning Development Opportunities work	
Potential for Transit Oriented Development Station	ation	Qualitative assessment of comparative potential for joint development opportunities	
		Capacity for additional residential units and jobs within a 10-minute walk based on the Buildable Lands Report	



Stations and Alignments

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Encourage **convenient**, **safe**, **and equitable non-motorized access** to stations, such **as bicycle and pedestrian connections**, consistent with Sound Transit's System Access Policy and Equity and Inclusion Policy.



Quality of Pedestrian Connections	Station	Qualitative evaluation the pedestrian environment including the quality of existing and funded pedestrian infrastructure and major barriers	
Quality of Bike Connections	Station	Qualitative evaluation of existing and funded bike infrastructure and major barriers to bike circulation.	



Stations and Alignments

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environments through sustainable and equitable practices.



Built Environment & Social Resources

Station

Known historic resources within 150 feet of track centerlines and station facilities or within any anticipated property acquisitions

Known archaeological resources within 150 feet of track centerlines and station facilities or within any anticipated property acquisitions

Recreational resources within 150 feet of track centerlines and station facilities or within any anticipated property acquisitions

Sites with known contamination within 150 feet of track centerlines and station facilities or within any anticipated property acquisitions

Sensitive noise/vibration receptors within 350 feet of track centerlines and station facilities or within any anticipated property acquisitions



Stations and Alignments

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Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environments through sustainable and equitable practices.



		Potential full acquisitions based on limits of right-of- way and facility extents and potential construction	
Built Environment	Station	staging areas.	
& Social Resources	Section	Potential partial acquisitions based on limits of right- of-way and facility extents and potential construction staging areas.	
		Potential full and partial acquisitions in census block	
Burdens to Historically Underserved	Station	groups with high minority and low-income population based on limits of right-of-way and facility extents and construction staging considerations.	
Communities	Section		
		Potential full and partial acquisitions of affordable housing and community facilities	



Stations and Alignments

Purpose & Need Statement

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Evaluation Measures

Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environments through sustainable and equitable practices.



		Wetlands, stream of track centerlin anticipated prop
		Fish passage ba centerlines and property acquisi
Natural Environment	Station	Floodplains with station facilities acquisitions
		ESA-listed spect centerlines and property acquisi

Wetlands, streams and waterbodies within 150 feet of track centerlines and station facilities or within anticipated property acquisitions

Fish passage barriers within 150 feet of track centerlines and station facilities or within anticipated property acquisitions

Floodplains within 150 feet of track centerlines and tation facilities or within anticipated property acquisitions

ESA-listed species habitat within 150 feet of track centerlines and station facilities or within anticipated property acquisitions



Stations and Alignments

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Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environments through sustainable and equitable practices.

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	Other habitat areas within 150 feet of track centerlines and station facilities or within anticipated property acquisitions.	
Natural Environment Station	Geological hazards within 150 feet of track centerlines and station facilities or within anticipated property acquisitions.	
	Other natural resources within 150 feet of track centerlines and station facilities or within anticipated property acquisitions.	
Potential Traffic Effects Station	Qualitative evaluation of potential for vehicle conflicts and congestion based on access to station alternatives by car and characteristics of the surrounding roadway network	



Purpose & Need Statement	Evaluation Criteria	Evaluation Measures
Implement a system that is technically and financially feasible to build, operate, and maintain.	Topography and Site Grading	Suitability of site topography and extent of earthworks required for development as an OMF
	Geological Conditions	Geotechnical conditions of site and potential for geotechnical risks
	Site Drainage	Requirements for stormwater management
	Property Impacts	Number of parcels and number of property owners and the potential for relocation challenges
	Property Value	Property value for each OMF North site alternative (total cost)



Purpose & Need Statement	Evaluation Criteria	Evaluation Measures
Implement a system that is technically and	Conceptual Capital Cost Estimate	Estimate of capital cost differential between OMF site alternatives
financially feasible to build, operate, and maintain.	Total Cost of Ownership	Relative operating costs for each site alternative
R	Site Permitting and Approval Challenges	Potential permitting and/or approval challenges that could have impacts to overall costs/schedule for delivery of the facility



OMF North

Purpose & Need Statement

Evaluation Criteria

Evaluation Measures

Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environments through sustainable and equitable practices.



Built Environment & Social Resources	Identify social resources, parks and recreation areas, historic and archaeological resources, hazardous waste sites, noise and vibration sensitive receptors
Burden on Historically Underserved Communities	Potential burden on historically underserved communities
Natural Environment Resources	Identify extent of impacts to geologic hazard areas, floodplains, wetlands and streams and fish and wildlife habitat conservation areas
Public Infrastructure and Facilities	Impacts to existing or proposed public facilities
Utilities and Roadways	Impacts to existing utilities and roadways



Purpose & Need Statement	Evaluation Criteria	Evaluation Measures
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environments through sustainable and equitable practices.	Zoning and Land Use	Suitability of current and anticipated future zoning/land use for use as an OMF site
	Adjacent Zoning and Land Use	Suitability of current and anticipated future zoning/land use for adjacent land for consistency with an OMF site
	Residential Displacements	Number of potential residential displacements
	Employment Displacements	Number of potential business and employee displacements



OMF North

Purpose & Need Statement

Evaluation Criteria

Site Lavout

Access f

Evaluation Measures

Suitability of site shape to meet programmatic

Provide an operations and maintenance facility with the capacity to receive test, commission, store, maintain and deploy vehicles to support the intended level of service for system-wide light rail system expansion.



(Site Configuration)	requirements of OMF North Ability for site to accommodate LRV delivery truck access. Assess complexity of site access	
cess for Light Rail Vehicle Deliveries		

Lead Track Connections Geometry

Assess the complexity of lead track connection geometry



Purpose & Need Statement	Evaluation Criteria	Evaluation Measures
Develop an operations and maintenance facility that supports efficient and reliable light rail service and minimizes system operating costs .	Operational Efficiency & Performance	Site location relative to operational efficiency performance and maintenance windows
	Lead Track Connections Operations	Operational performance of lead tracks and vehicle movements/connections to the site
	Compatibility with Potential Interim Terminus	Proximity and compatibility of the site location to the potential interim terminus (Southwest Industrial Center)

