EVENT OVERVIEW

On September 12, 2019, we hosted a technical workshop for the Ballard Bridge Planning Study at the Ballard Branch Library Meeting Room (5614 22nd Ave NW). The workshop was from 10:30 AM to 1:00 PM. Stakeholders from the bike and freight community were invited to participate. The workshop consisted of a short presentation (Appendix A), display boards (Appendix B), and roll plots (Appendix C) showing the various options (Appendix C) for the interactive group discussions.

Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10:30 – 10:40 AM</td>
<td>Welcome and Introductions</td>
<td>Wes Ducey, SDOT</td>
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<tr>
<td>10:40 – 10:50 AM</td>
<td>Ballard Bridge Planning Updates</td>
<td>Wes Ducey, SDOT</td>
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<tr>
<td>10:50 – 11:00 AM</td>
<td>Overview of Three Bridge Options</td>
<td>Matt Baughman, COWI</td>
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<td>Marni Heffron, Heffron Transportatation</td>
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<tr>
<td>11:00 AM – 12:30 PM</td>
<td>Small Group Discussions on Bridge Options (40 minutes each for north end and south end with a 10-minute break in between)</td>
<td>All</td>
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<tr>
<td>12:30 – 12:45 PM</td>
<td>Report Out &amp; Summarize</td>
<td>Wes Ducey, SDOT</td>
</tr>
<tr>
<td>12:45 – 1:00 PM</td>
<td>Next Steps &amp; Adjourn</td>
<td>Wes Ducey, SDOT</td>
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EVENT LAYOUT

The room was set up with a welcome table, refreshments table, presentation screen, two display boards, and three discussion tables. Each discussion table had markers, sticky notes, a flip chart, and a set of 7 technical roll plots:

- High-level Fixed Bridge Replacement – North
- Mid-level Moveable Bridge Replacement – North
- Low-level Moveable Bridge Rehabilitation – North
- Existing Connections - North
- SPUI (High-level and Mid-level Bridge Replacement) – South
- Low-level Moveable Bridge Rehabilitation – South
- Existing Connections - South

The diagram below shows the room layout.
ATTENDANCE

There were 7 stakeholders at the workshop. Attendance included members from the Ballard Alliance, Seattle Freight Advisory Board, Port of Seattle, North Seattle Industrial Association (NSIA), Cascade Bicycle Club, and the Seattle Bicycle Advisory Board.

There were 5 Seattle Department of Transportation (SDOT) advisory staff members and 6 consultants at the workshop.

Community & SDOT Stakeholder Attendees
- Haley Keller, Ballard Alliance & Cascade Bicycle Club
- Warren Aakervik, Seattle Freight Advisory Board
- Tom Malone, North Seattle Industrial Association (NSIA)
- Eugene Wasserman, NSIA
- Elliott Strong, NSIA
- Patrick Mayovsky, Port of Seattle
- Geri Poor, Port of Seattle
- Serena Lehman, SDOT Bicycle Advisory Board Liaison
- Chris Saleeba, SDOT Policy and Planning
- John Marek, SDOT Transportation Operations
- Andrew Natzel, SDOT Transportation Operations
- Venu Nemani, SDOT Transportation Operations

Project Team
- Wes Ducey, SDOT Project Manager
- Kit Loo, SDOT Program Manager
- Matt Baughman, COWI
- Lisa Reid, SCJ Alliance
- Susann Babei, SCJ Alliance
- Marni Heffron, Heffron Transportation
- Jasmine Beverly, Cascadia Consulting
- Kate Graham, Cascadia Consulting
WHAT WE HEARD

The workshop started with a presentation from SDOT project manager, Wes Ducey, and technical consultants, Marni Heffron and Matt Baughman, on the Ballard Bridge Planning Study process and current considerations. Following the presentation attendees broke into 2 groups to discuss the North and South side connection options being considered. Each group had representation from the bike and freight community, as well as representatives from the technical team. SDOT gathered feedback using sticky notes, drawings, and verbal comments from group members.

Group Discussion Feedback & Observations

High-level Fixed Bridge Replacement – North

- 5% grade is the maximum that is reasonable for people who bike
- Interest in a sidewalk and/or bicycle facility on the 51st/Leary ramp
  - Consider adding an east/west crosswalk at the signalized intersection at the top of the ramp
- Freight would like a right turn onto 15th Ave NW from the NW 51st St/Leary Way NW ramp
  - The turn radius would need to accommodate large trucks (WB-67)
- Evaluate turning radii at the intersection of 14th Ave NW and NW Leary Way
- Concerns about possible property impacts

Mid-level Moveable Bridge Replacement – North

- Would like to see safety improvements for people who bike and walk at 17th Ave NW/ NW Leary Way intersection
- Freight has concerns about making the U-turn from 17th Ave NW onto the southbound on ramp
- Freight would like to be able to turn right from southbound 14th Ave NW onto NW 46th St

Low-level Moveable Bridge Rehabilitation – North
• Disappointed in the lack of reduction in bridge openings
• Prefer the 14-feet wide 2-direction path on 1 side

SPUI (Mid-level and High-level Bridge Replacement) – South

• General support for the SPUI concept
  o Interest in including it with a low-level rehabilitation option
• Would like a wider multi-use path on the west side of the Emerson to SB 15th Ave W ramp
• Would like a connection from the future light rail station (near 16th Ave W & Thorndyke Ave) to the bridge for people who walk and bike
• Would like to connect the Ship Canal Trail to 16th Ave W

Low-level Moveable Bridge Rehabilitation – South

• Concern for access to the southbound bus stop for people who walk and bike
• Interest in improved east-west crossings on 15th Ave W/Ballard Bridge for people who walk and bike
• Would like more signage for people who walk and bike directing them to the west side facilities
• Concerns about the turn radii in the bicycle off ramp to the Ship Canal Trail, specifically for people on cargo bikes
• Would like facilities for people who walk and bike to connect to future Link light rail station (near 16th Ave W & Thorndyke Ave W)
• Concerns from freight drivers about people crossing the bridge at Emerson
  o Freight drivers have limited visibility while turning right

General Feedback

• Concern about constructability of the mid-level moveable bridge replacement
• Interest in understanding the challenges of a tunnel option
• Would like information about in-water touchdown points and impacts
• Interest in an independent bridge for people who walk and bike
• Interest in ship canal crossing height requirements for fixed structures

Feedback received during the technical workshop will be considered by the technical team as they continue to develop and refine the feasible alternatives, associated risks, opportunities, and trade-offs.

APPENDICES

Appendix A: PowerPoint Presentation p. 7
Appendix B: Display Boards p. 15
Appendix C: Roll Plots p. 16
Appendix D: Invitation Email p. 20
Welcome!

**Project Team**
- Wes Ducey, SDOT Project Manager
- Moein El-Aarag, Project Manager
- Matt Baughman, Consultant, Structures Lead
- Marni Heffron, Consultant, Traffic Lead
- Lisa Reid, Consultant, Civil Engineering Lead
- Kate Graham & Jasmine Beverly, Consultant, Outreach & Communications

**Stakeholders** – Please introduce yourselves
### Agenda

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### PLANNING STUDY PROCESS

<table>
<thead>
<tr>
<th>Activity</th>
<th>2019</th>
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<tr>
<td>Stakeholder Meetings</td>
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<td>Advisory Board Briefings</td>
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<td>Online Survey</td>
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<td>Drop-in Sessions &amp; Community Events</td>
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<tr>
<td>Community Councils &amp; Other Community Group Briefings</td>
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<tr>
<td>Finalize Alternatives Analysis and Share Results</td>
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Subject to change

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Ballard Bridge Planning Study: Technical Workshop Summary Report | 7
What We've Heard

Key takeaways from Online Community Survey and July Drop-In Session

- Improve accessibility for people walking and biking across the bridge
- Improve marine traffic access (reduce wait times and marine traffic congestion)
- Reduce bridge openings during peak hours
- Widen travel lanes on the bridge to accommodate larger vehicles, including buses, trucks, and other freight vehicles
- Ensure coordination with Sound Transit’s future Ballard Link Extension
Considerations

- Geometric Feasibility
- Structural Design
- Constructability and Construction Impacts
- Bike & Pedestrian Safety
- Adjacent Project Coordination
- Cost
- Multimodal Mobility and Connectivity
- Transit and Freight Reliability
- Industrial Operations
- Marine Traffic Impacts
- Environmental Impacts

Ground rules for discussion

- Engage in active listening (please limit phone time)
- Act and communicate with respect
- Share “air time”: Ask yourself W.A.I.T= Why Am I Talking?
- Commit to being open to new concepts and ideas
- Use “I” statements/speak for yourself & from your own experiences
- Critique ideas, not people
- The goal is not to agree -- it is to gain a deeper understanding
BREAK OUT SESSION BEGINS

SHARE OUT AND REPORT BACK
Evaluation Process

**STEP 1: Initial Options Screening**
- Initial Screening Criteria:
  - Provide safe multimodal merges, diverges, and connections
  - Maintain multimodal access to Leary Way NW, W Emerson St & W Nickerson St
  - Improve pedestrian and bicycle facilities and connections to Burke Gilman and Ship Canal trails
  - Design road grades to 5%
  - Maintain 20’x20’ access for over-legal loads

**STEP 2: Component Feasibility Analysis**
- Feasibility Analysis includes:
  - Multimodal traffic analysis
  - Geometric feasibility
  - Structural analysis
  - Constructability evaluation
  - Rough Order of Magnitude (ROM) costs
- Component Eliminated

**STEP 3: Alternatives Analysis**
- Alternative Analysis Criteria:
  - Multimodal Mobility and Connectivity
  - Community Support
  - Environmental Impact
  - Cost Estimate
  - Implementation Characteristics

**Comparison of Feasible Alternatives**

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**Next steps**

<table>
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<tr>
<th>Date</th>
<th>Activity/Action</th>
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<tbody>
<tr>
<td>October 2019</td>
<td>Public Drop-In Sessions</td>
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<tr>
<td>Winter 2019</td>
<td>Draft Alternative Comparison Report</td>
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Department of Transportation

City of Seattle
APPENDIX B: DISPLAY BOARDS

**BALLARD BRIDGE OPTIONS**

This graphic represents the technical options being considered by the planning study. It does not represent a design or proposed alternative.

**BALLARD BRIDGE CONSIDERATIONS**

As we explore options for the Ballard Bridge, we must consider factors such as structural feasibility, cost, and community transportation needs. Specific considerations include:

- Maintain multimodal access to Lake’s Way NW
- Maintain multimodal access to W Phinney St & W Nickerson St
- Provide safe multimodal merges, diverges, and connections
- Improve pedestrian and bicycle facilities
- Maintain pedestrian and bicycle access to Burke Gilman & Ship Canal Trail
- Align for roadway grades of or less than 5% (slope grade of 7% or necessary)
- Maintain access for over-legal loads (20-the 25-H)
- Minimize property effects
- Predictability of bridge openings for marine and roadway traffic
APPENDIX D: INVITATION

Dear Ballard Bridge Stakeholders,

We’ve kicked-off the long-term Ballard Bridge Planning Study, which explores feasible rehabilitation and replacement options and evaluates how to bring the bridge up to current transportation, functional, and structural standards.

Come to our upcoming Ballard Bridge Planning Study technical workshop on Thursday, September 12th from 10:30 AM – 1:00 PM at the Ballard Library to:

- Learn where we’ve been and what we’ve heard
- Discuss technical screening findings
- Share insights into multi-modal routes and connections
- Give input on feasible options
- Hear what’s next

The planning study began with an online survey followed by a public drop-in session to better understand what community members need, value, and envision for the bridge. As we continue to receive and review community feedback, we’ll evaluate cost-effective and constructible structure types. Through the end of the year, we’ll work with our agency partners, advisory boards, and community members to propose options that meet these standards and community needs. The final, feasible options will be compared among their associated costs, risks, benefits, and other trade-offs.

This study will not recommend a preferred alternative but rather provide a comparison of feasible alternatives as we coordinate with our elected officials in evaluating funding options.

Be on the lookout for an outlook invitation along with the meeting’s agenda.

Thank you,

Wet Duty

Outreach Team
Ballard Bridge Planning Study
206-775-8844
BallardBridge@seattle.gov

Invitation sent to:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company/Position</th>
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<tbody>
<tr>
<td>Sean Cryan</td>
<td>Connect Ballard</td>
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<td>Haley Woods</td>
<td>Peddler Brewing/Connect Ballard</td>
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<td>Vicky Clarke</td>
<td>Cascade Bicycle Club</td>
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