

SR 520 – Portage Bay Bridge & Roanoke Lid Project

Seattle Design Commission

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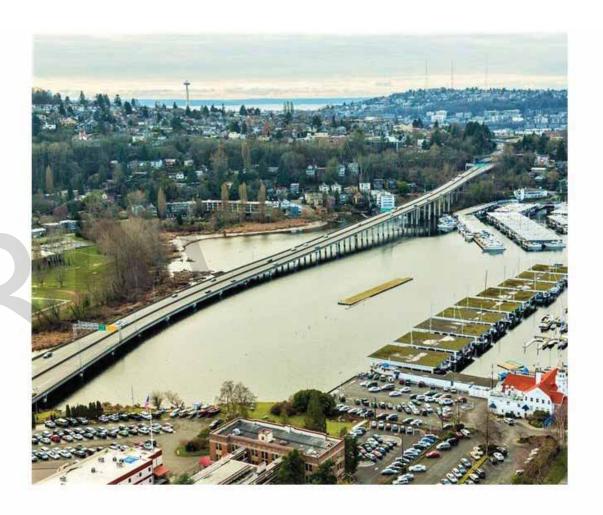
Adam Amrhein, SR 520 Design Team

Nov. 7, 2019

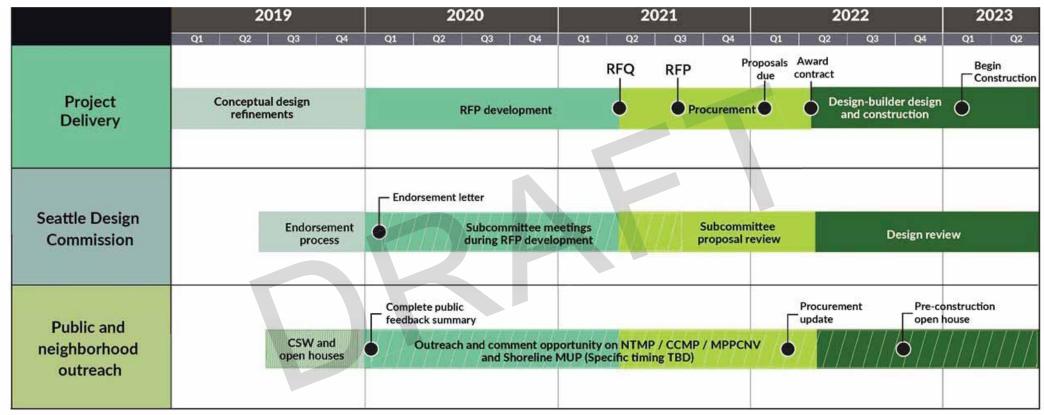
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Presentation Outline

- Welcome, introductions, and updates
- Corridor vision
- · Major project elements
 - SR 520 Trail and Neighborhood Connections
 - Portage Bay Bridge
 - Roanoke Lid
- Program recap



Project Delivery Schedule



CCMP: Community Construction Management Plan

CSW: Community Stakeholder Workshop

MPPCNV: Major Public Project Construction Noise Variance

MUP: Master Use Permit

NTMP: Neighborhood Traffic Management Plan

RFP: Request for Proposals RFQ: Request for Qualifications SDC: Seattle Design Commission

Design Build - Proposed SDC Involvment

Proposed SDC Involvement

(2019)

Building off the 2014/15 Final Concept Design work, Overview of DB approach refining concept elements of continuity and distinction

- Full Commission meetings
- Subcommittee meetings
- Field visit
- · Capture design intent in SDC endorsement letter

RFP Development (2020)

to urban design elements, documentation, and development of urban design criteria

- Subcommittee meetings including discussion of design-build process
- 2-week review period of urban design criteria

Procurement (2021)

Proposal Development:

How vision will be met. SDC participation (who and when)

 Sub-committee meetings including discussion of design-build process

Proposal Review:

Focus on design section elements framed within the SDC endorsement

· Proposal reviews (staff and commissioner participation)

Design Build (2023) Design and Construction

Design review cycle with Design Build team

- Full commission meeting
- Subcommittee meetings including discussion of design-build process
- Taskforce meetings (staff and commissioner participation)



Public Outreach Summary

- Community stakeholder workshops focused on:
 - Roanoke Lid look and feel
 - Non-motorized connections
 - Boyer Ave. E. and Bill Dawson under-bridge areas
- Approx. 55 participants across three workshops. Included:
 - Neighbors
 - Local community council representatives
 - Seattle Neighborhood Greenways staff
 - Friends of Seattle's Olmsted Parks representatives
 - Seattle Pedestrian Advisory Board member
 - SDOT, Parks, and OPCD staff
- In person open houses held in June and Oct. to bookend the workshops and invite additional feedback
- Online open house launched on June 20; open through Nov. 13
- Key feedback themes: improve connectivity, consider safety for all users, prioritize viewpoints and outlooks



Attendees at the second workshop on Aug. 15 discuss project plans.

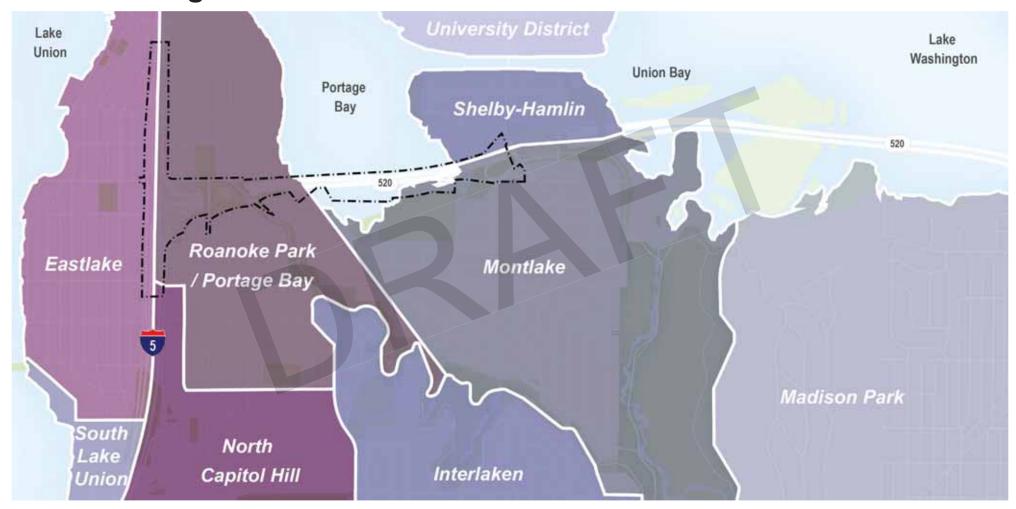


Attendees and staff at the Oct. 29 SR 520 Rest of the West open house

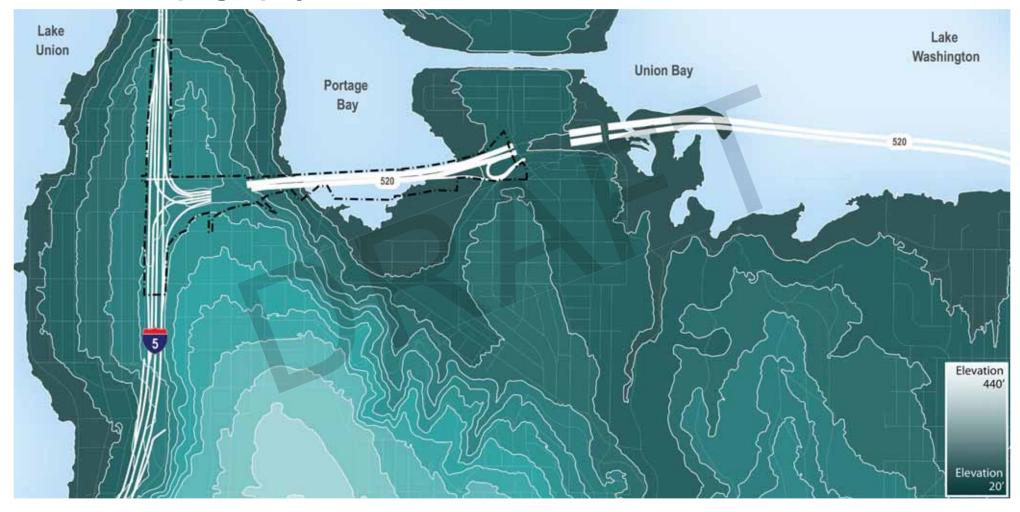
Context



Context: Neighborhoods



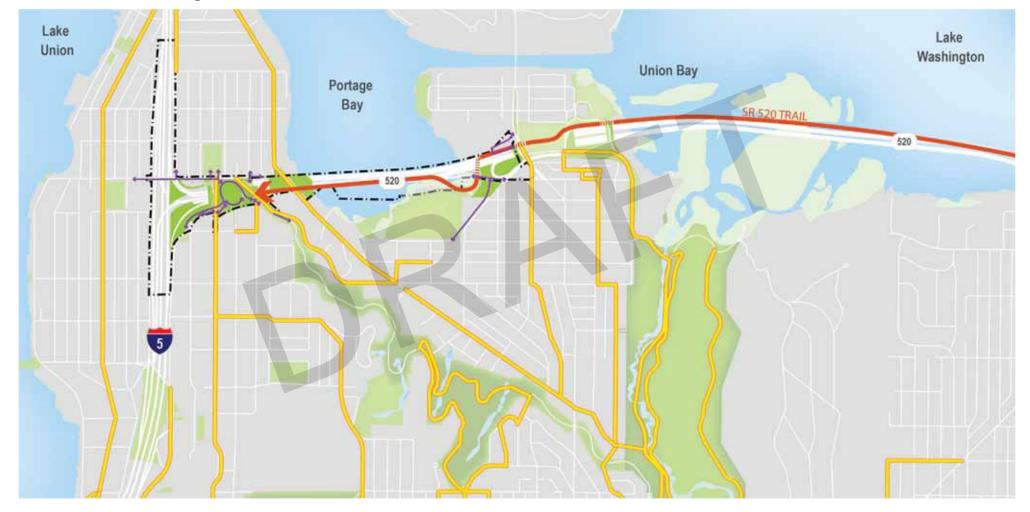
Context: Topography



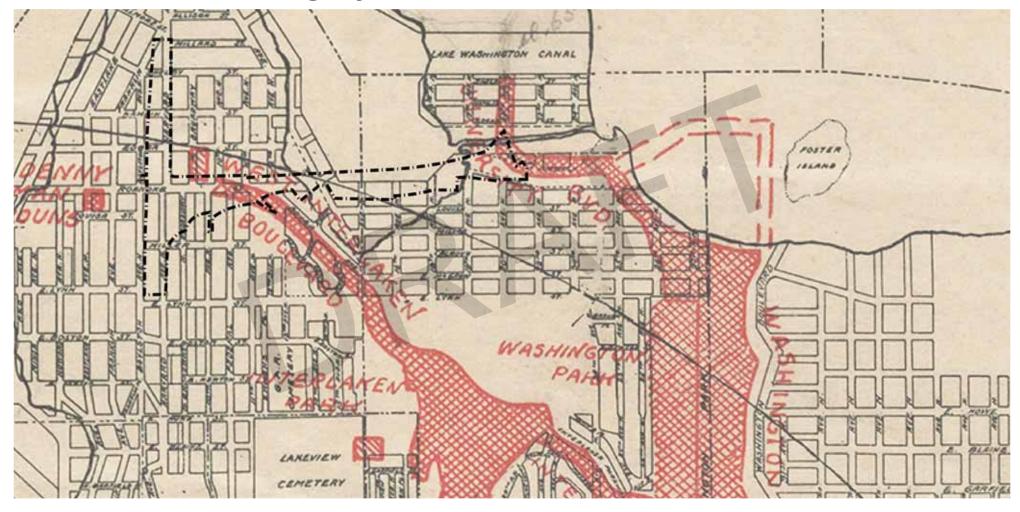
Context: Vehicular Network



Context: Bicycle and Pedestrian Network



Context: Olmsted Legacy



Context: Olmsted Legacy



Vision: Olmsted Principles

Comprehensive Approach Connect Isolated Spaces to form Network Composition Borrowed Landscapes Curated Views **Genius of Place** Embracing the Uniqueness of Site and Neighborhoods **Orchestration of Use and Movement** Clear and Varied

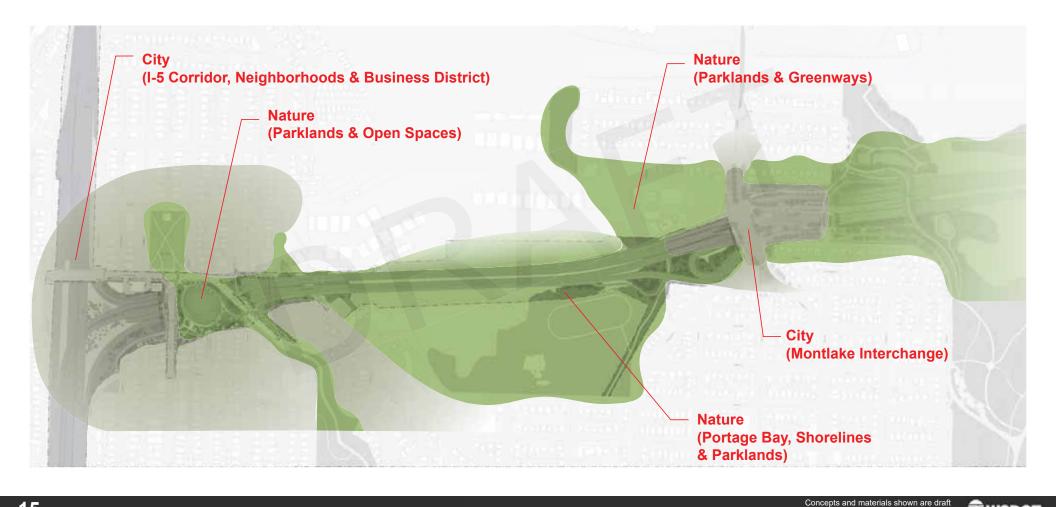
ideas for discussion purposes only

Vision: Nature Meets City



Vision: Nature Meets City

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Vision: Sustainability, Resilience, and Equity

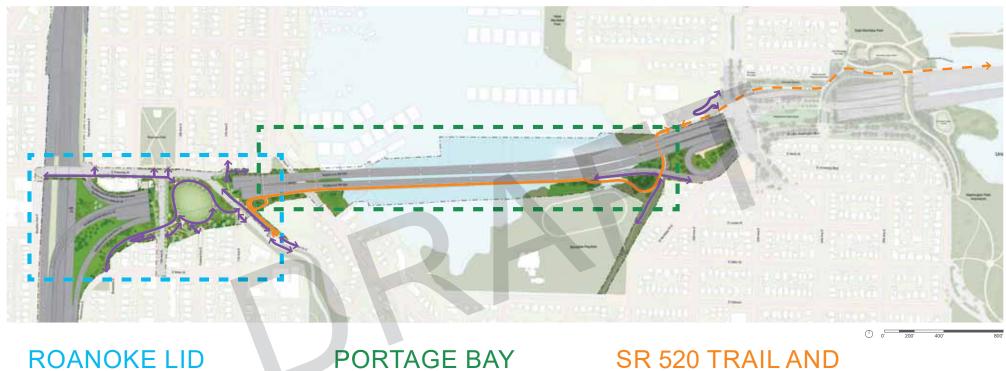
- New seismically resilient lifeline structures
- New non-motorized regional and local connections for all ages and abilities
- New public open space
- New transit connections
- Full stormwater quality treatment
- Dark sky compliant energy efficient lighting
- Multi-prong approach to highway noise mitigation
- Reconnect neighborhoods
- Tree canopy replacement
- Fewer in-water columns
- Completes Olmsted network

SR 520 Trail Network



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Major Elements



BRIDGE

NEIGHBORHOOD CONNECTIONS

SR 520 Trail Guidance

SDC LETTER TO THE 2012 SEATTLE COMMUNITY DESIGN FINAL REPORT

- Improve the quality and safety of the experience for all modes of travel.
- Enhance the sequential gateway experience along the corridor
- The addition of the shared use path on Portage Bay Bridge is an essential element.
- Paths should connect seamlessly to the 520 trail on the Portage Bay Bridge.
- Delmar Ave. should have a safe crossing for pedestrians and bicycles moving between the Portage Bay Bridge and the open space

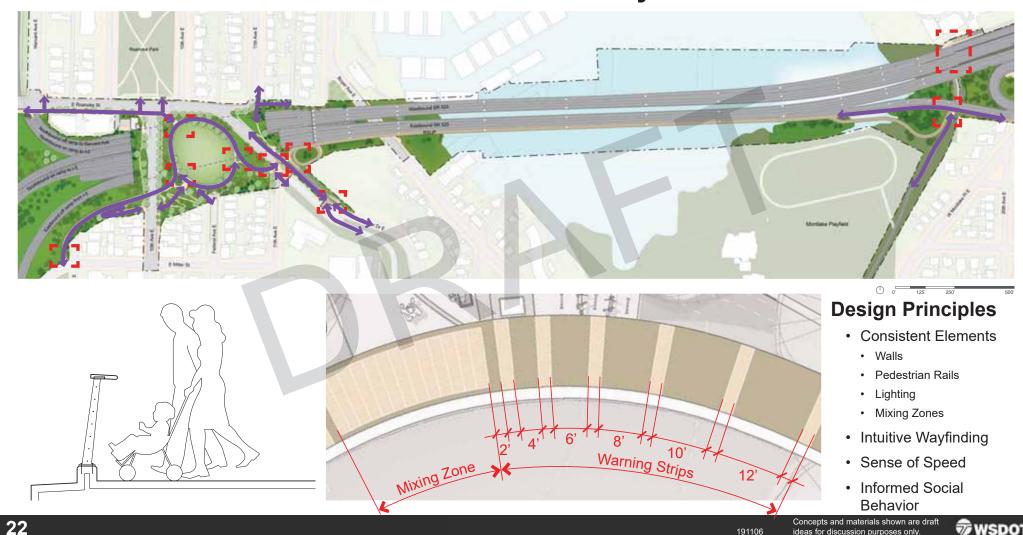
SR 520 Trail Network



SR 520 Trail Network: Path Connections



SR 520 Trail Network: Elements of Continuity



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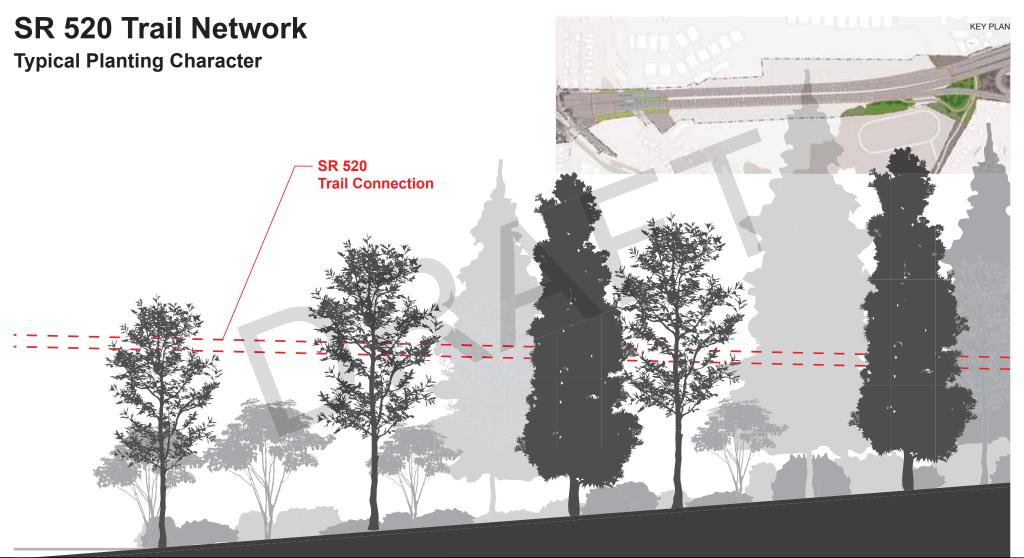
SR 520 Trail Network: Bill Dawson Underbridge

23



SR 520 Trail Network: Bill Dawson Underbridge





SR 520 Trail Network

Typical Planting Character

Trees







Groundplane











Concepts and materials shown are draft

ideas for discussion purposes only.

SR 520 Trail Network: Bridge Connections

Design Principles

- Trail geometry biased towards a direct and intuitive regional trail experience
- Sensible and right-sized local network connections

- · Clear sight lines along the trail and to decision points
- Defensible decision points
- Path grades maintain views into and out of underbridge areas
- Balance trail connections with views to/from bridge and environmental considerations



West Connection Baseline



East Connection Baseline

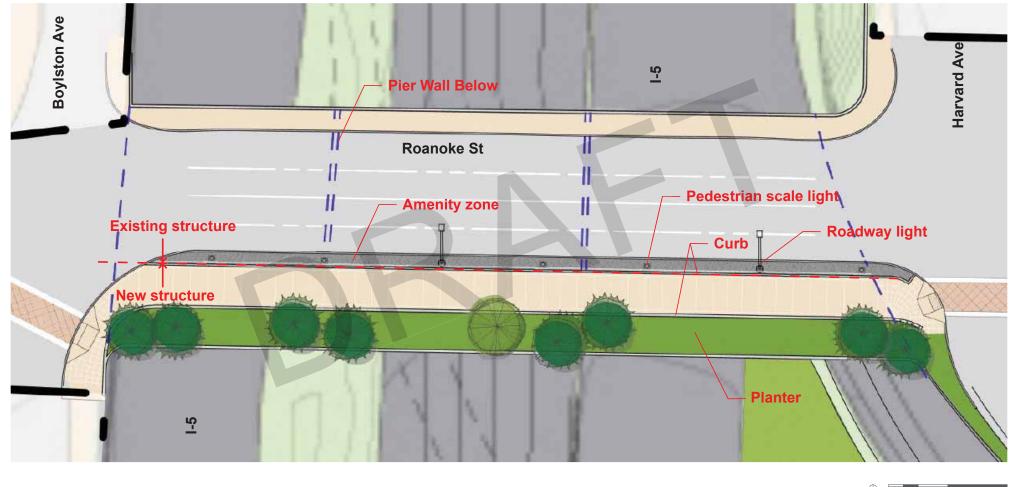
SR 520 Trail Network: Connections West



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SR 520 Trail Network: I-5 Enhanced Crossing

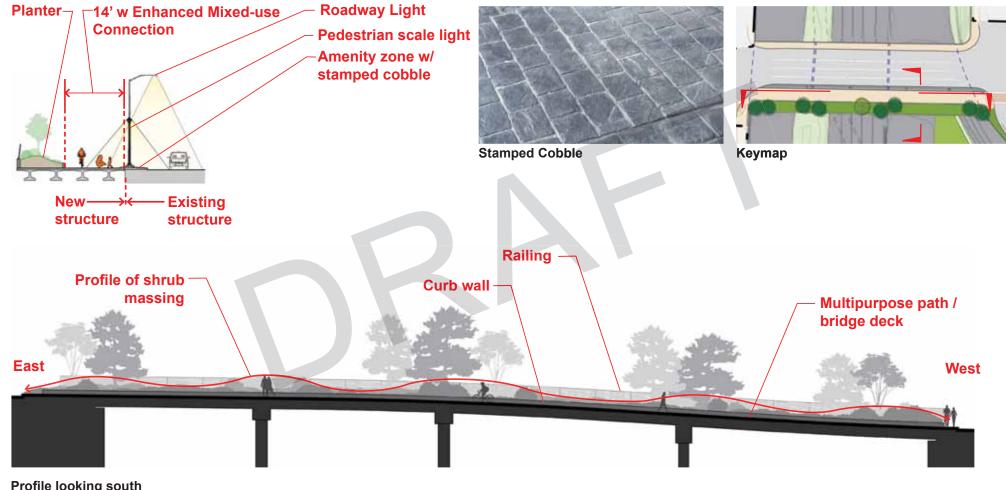
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Neighborhood Connections: I-5 Enhanced Crossing



Profile looking south

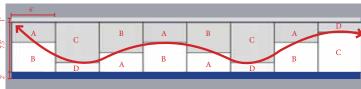
SR 520 Trail Network: Connections South



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Neighborhood Connections: 10th Ave Tunnel





Portage Bay Bridge Guidance

SDC 2014 WEST SIDE FINAL CONCEPT DESIGN REPORT

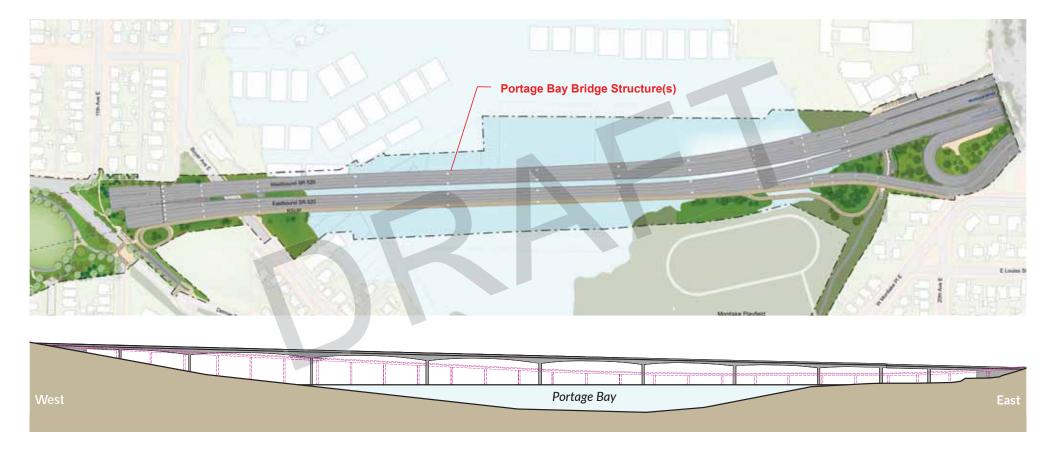
What We Heard:

- Emphasize lightness in appearance and scale
- Complement its location within Portage Bay
- Maximize natural light
- Integrate architectural elements

Proofs:

- Adapted items of continuity
- Bridge rhythm
- Scale and appropriateness

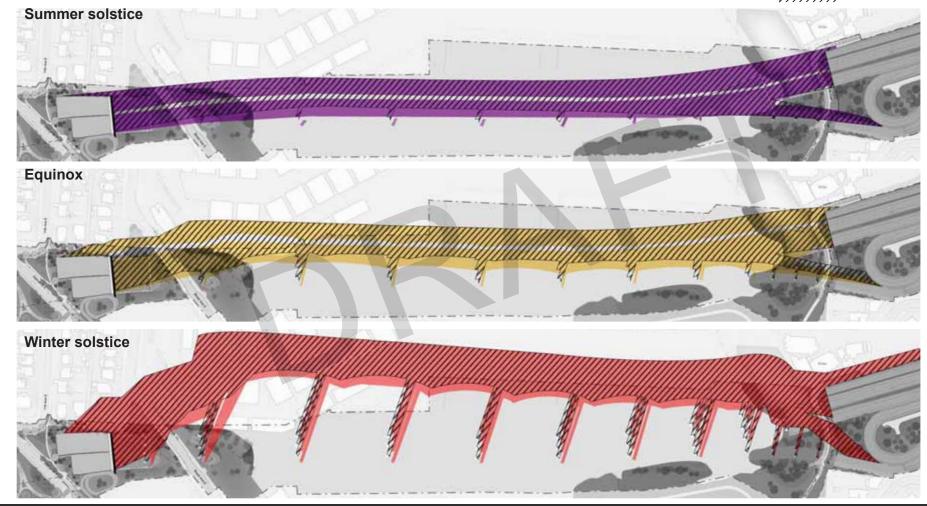
Portage Bay Bridge



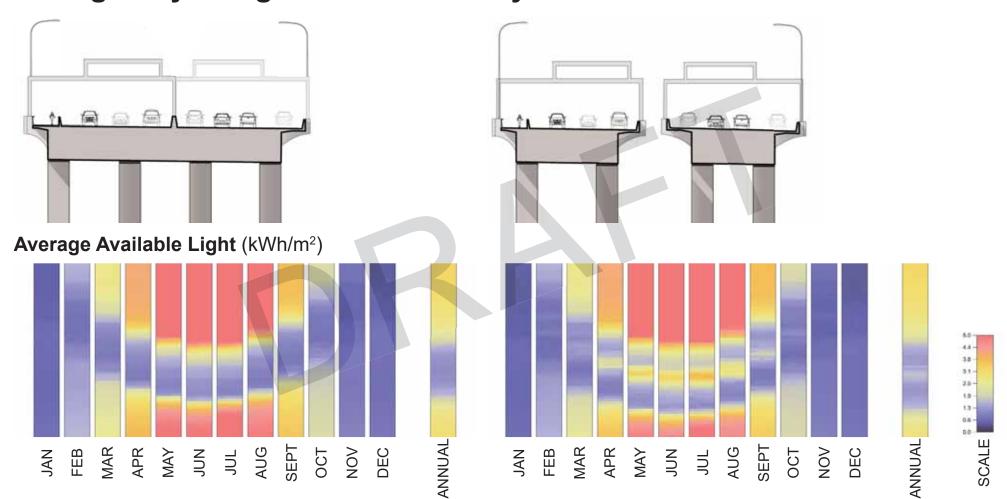
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Portage Bay Bridge: Shadow Analysis

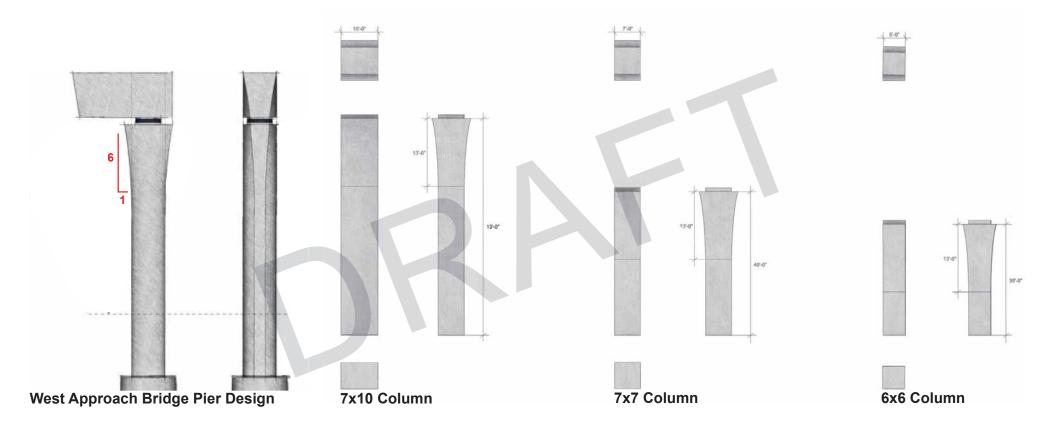
Legend:
Dual Structure Shadow
Single Structure Shadow



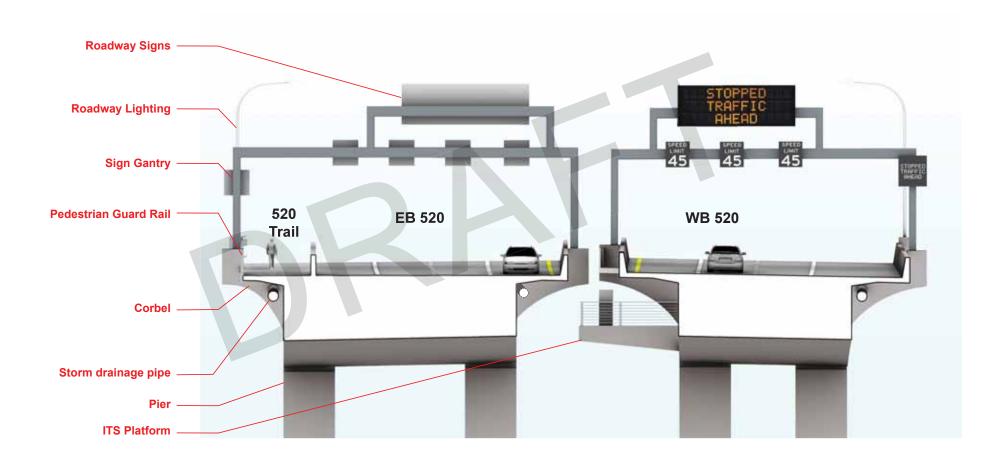
Portage Bay Bridge: Structure Analysis



Portage Bay Bridge: Pier Typology

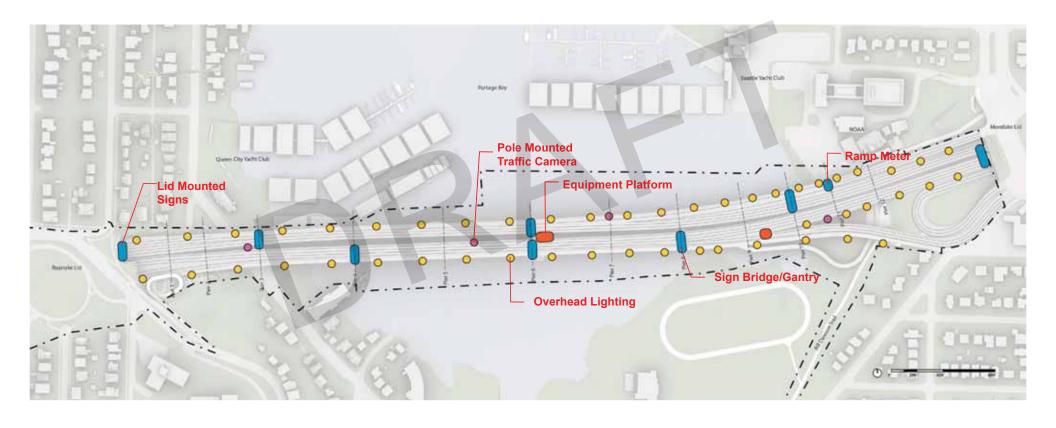


Portage Bay Bridge: Architectural Features

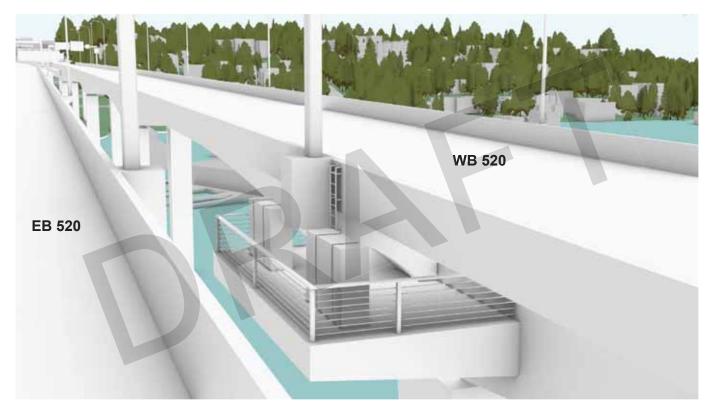


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Portage Bay Bridge: Above Bridge Appurtenances



Portage Bay Bridge: Utility Platform

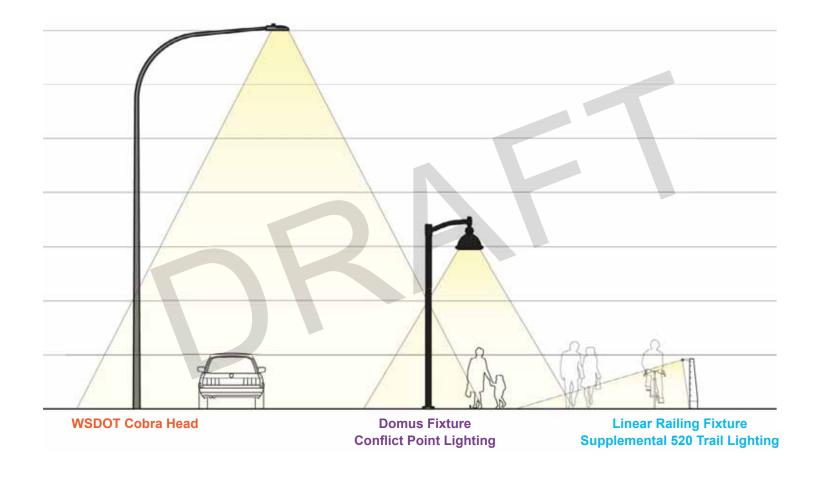


Center Platform (Basis of Design)

Portage Bay Bridge: Lighting Framework



Portage Bay Bridge: Light Fixtures



Portage Bay Bridge: Driver Experience



View looking east on SR 520

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Portage Bay Bridge: Path User Experience



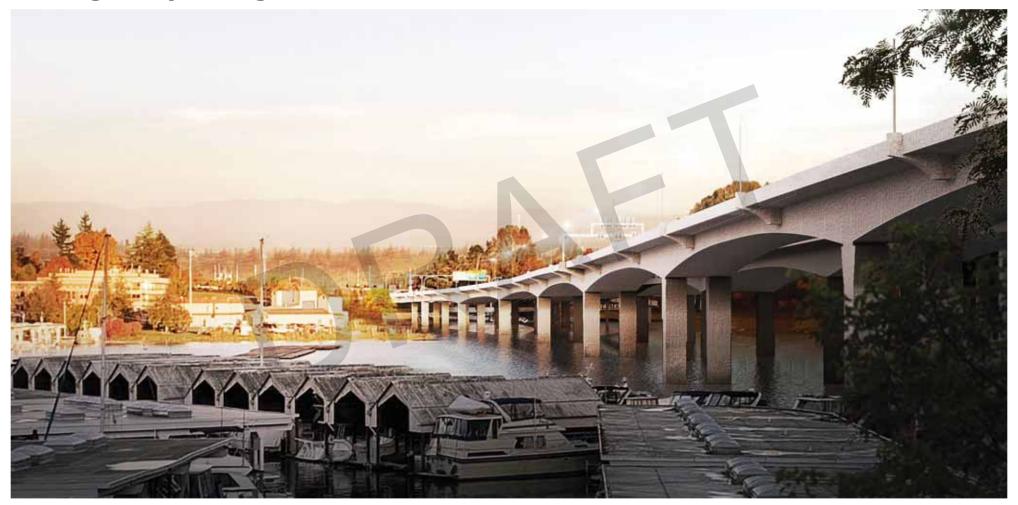
View looking west on the 520 trail

Portage Bay Bridge: Park User Experience



View from the south

Portage Bay Bridge: View from the North West



Portage Bay Bridge: View from the North East



SR 520 Rest of the West



Roanoke Lid Guidance

SDC LETTER TO THE 2012 SEATTLE COMMUNITY DESIGN FINAL REPORT

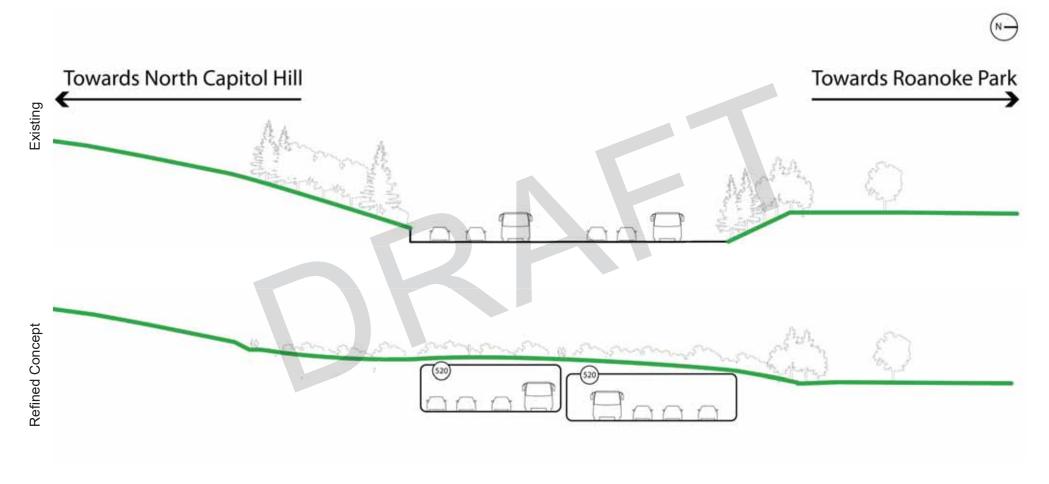
- Federal street end: ...establish clear physical and social relationships between the public and private realms
- The intersection of 10th Ave. E and E Roanoke St. deserve more considered design treatment as it is a key juncture connecting the new park and the existing Roanoke Park



Roanoke Lid: Existing Conditions



"Repairing the Wound" ~ Sam Assefa, Director OPCD



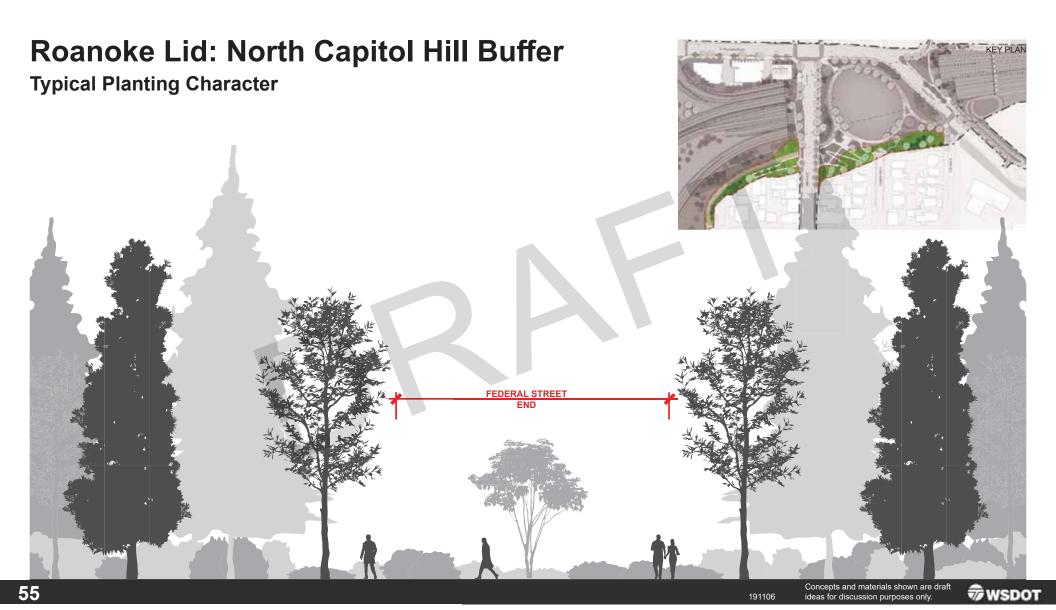
Roanoke Lid



Roanoke Lid: Planting Palettes







Roanoke Lid: North Capitol Hill Buffer

Typical Planting Character

Trees











Groundplane











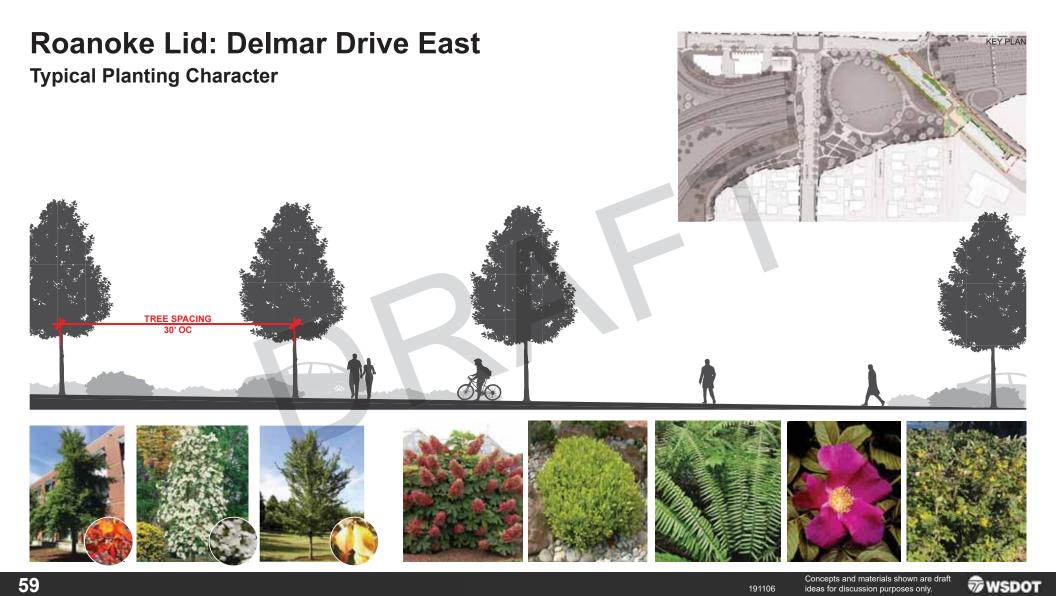


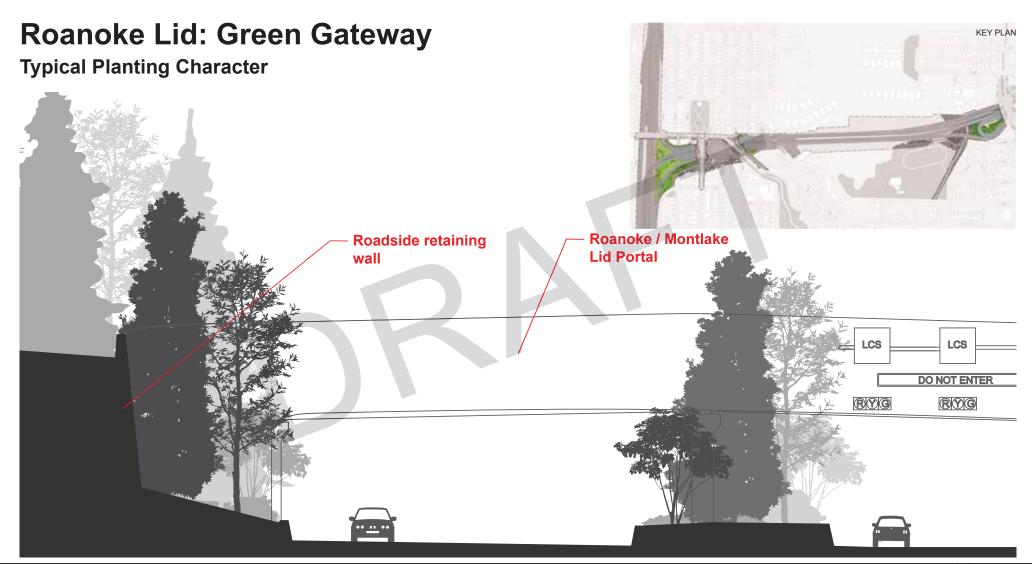
Roanoke Lid: East Roanoke Street **Typical Planting Character**

WSDOT

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Roanoke Lid: Green Gateway

Typical Planting Character

Trees







Groundplane







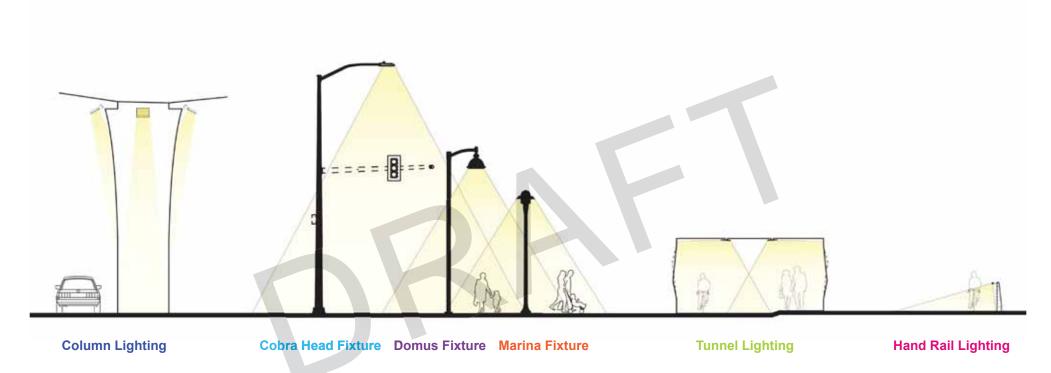




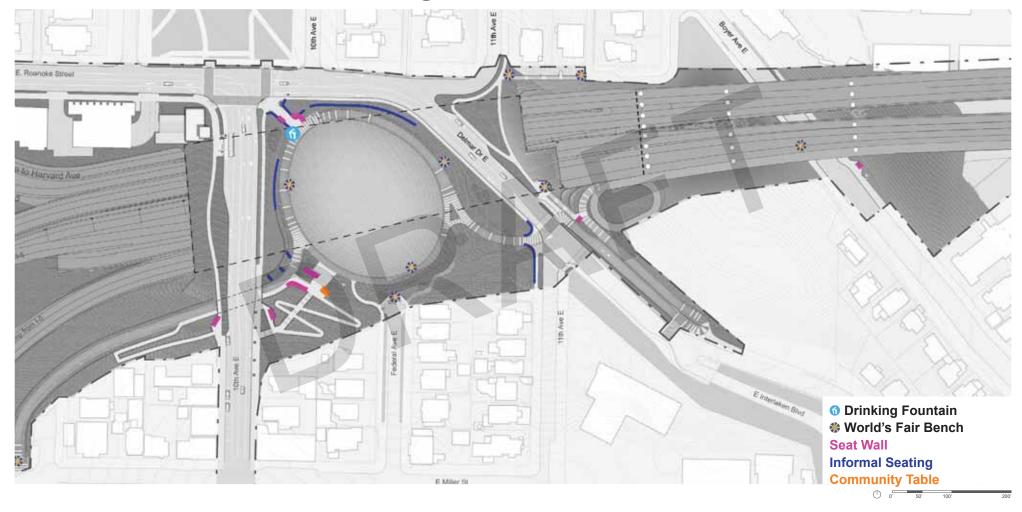
Roanoke Lid: Lighting Framework



Roanoke Lid: Light Fixtures



Roanoke Lid: Site Furnishings Framework



Roanoke Lid: Site Furnishings







Seat Wall



Drinking Fountain



Community Table



Concepts and materials shown are draft

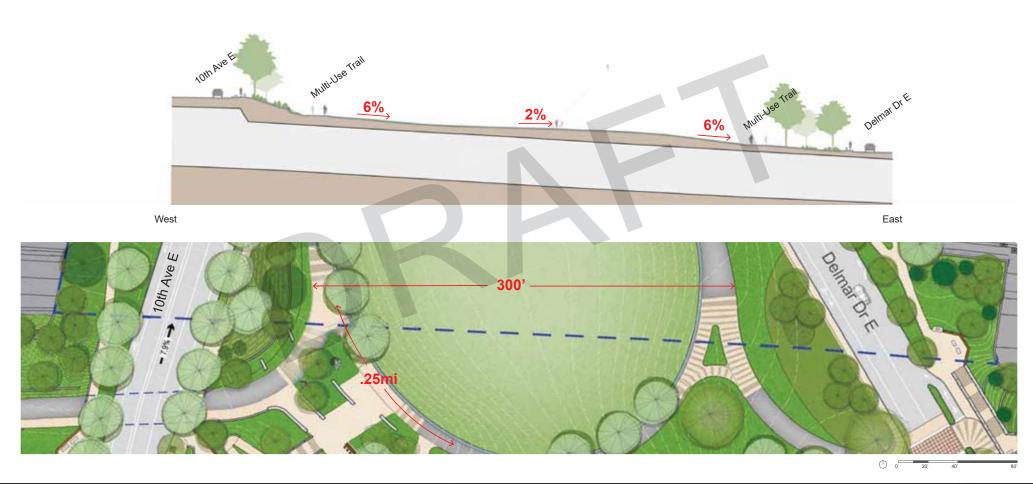
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Signage

Roanoke Lid: User Diagram



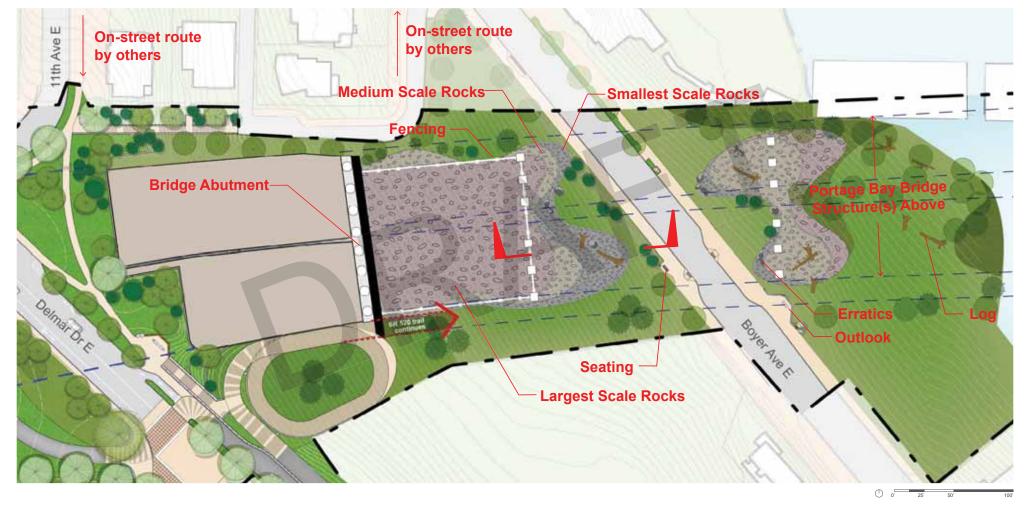
Roanoke Lid: Neighborhood Open Space



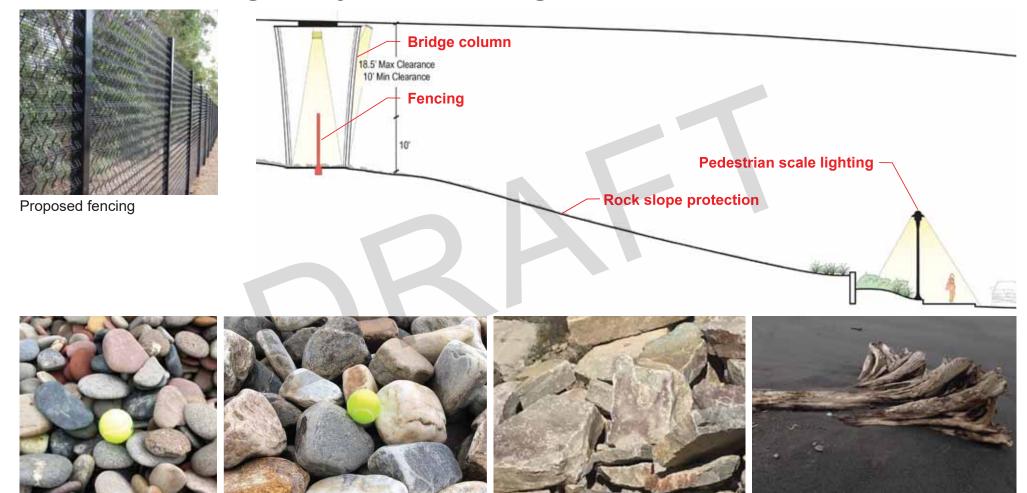
Roanoke Lid: Outlooks and Overlooks



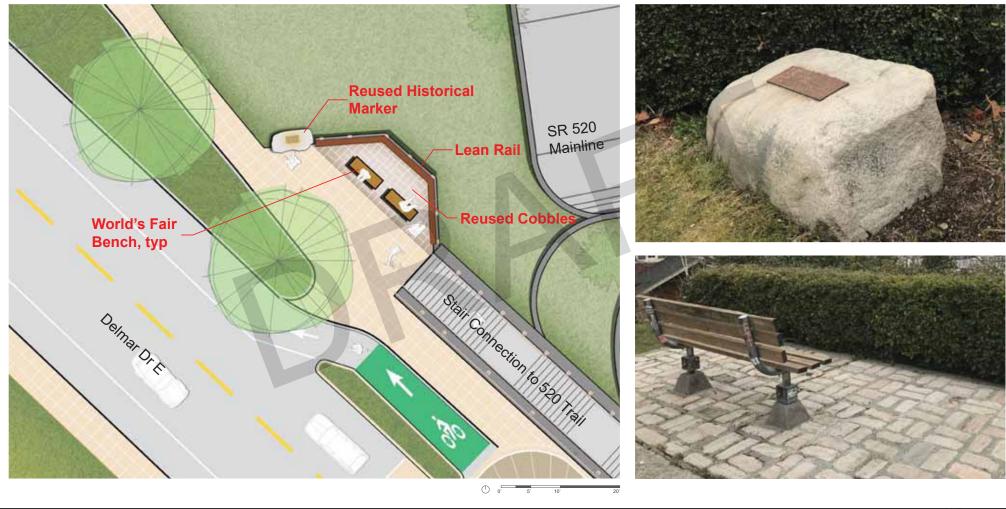
Roanoke Lid Edges: Boyer Outlook and Underbridge Area



Roanoke Lid Edge: Boyer Underbridge



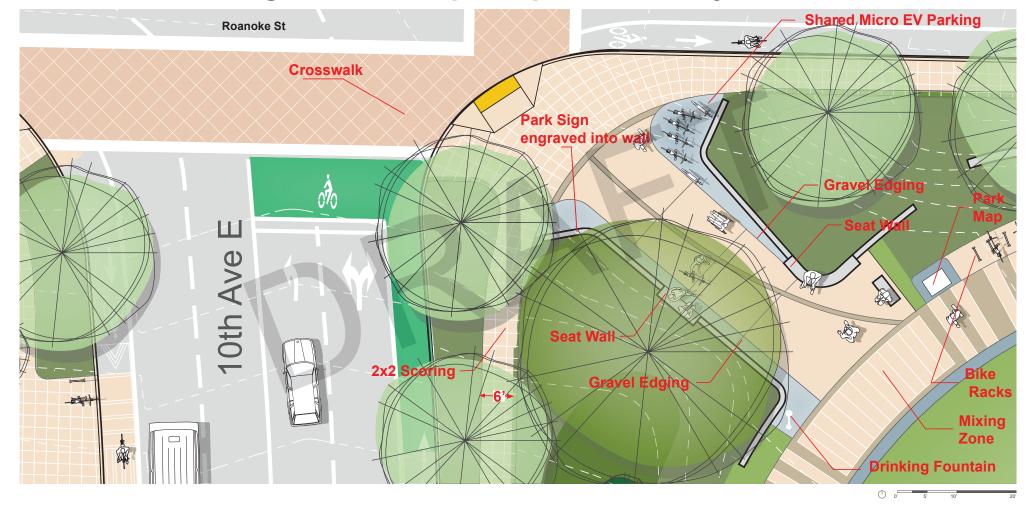
Roanoke Lid: Bagley Viewpoint



Roanoke Lid: Neighborhood Open Space Gateway



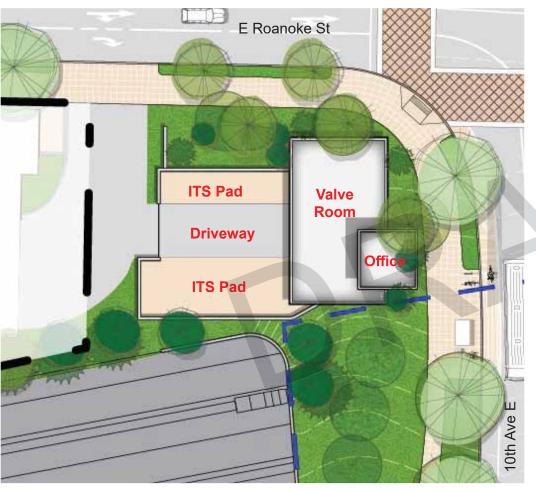
Roanoke Lid: Neighborhood Open Space Gateway

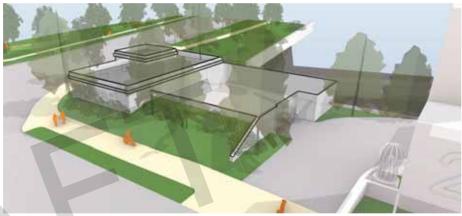


Roanoke Lid: Neighborhood Open Space Gateway

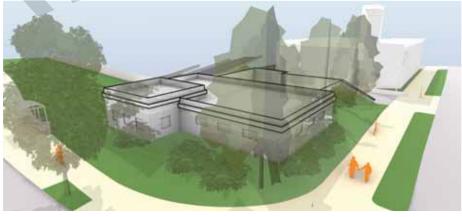


Roanoke Lid: Utility and Valve Room Plan and Massing





view looking east

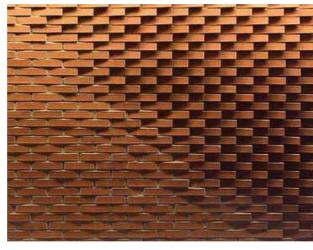


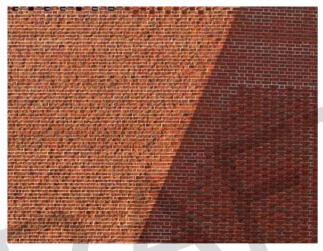
view looking west

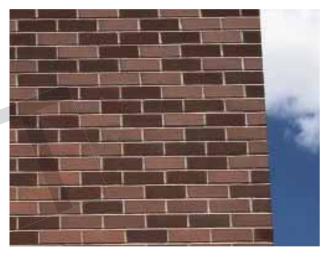
Roanoke Lid: Utility and Valve Room Materials

Masonry





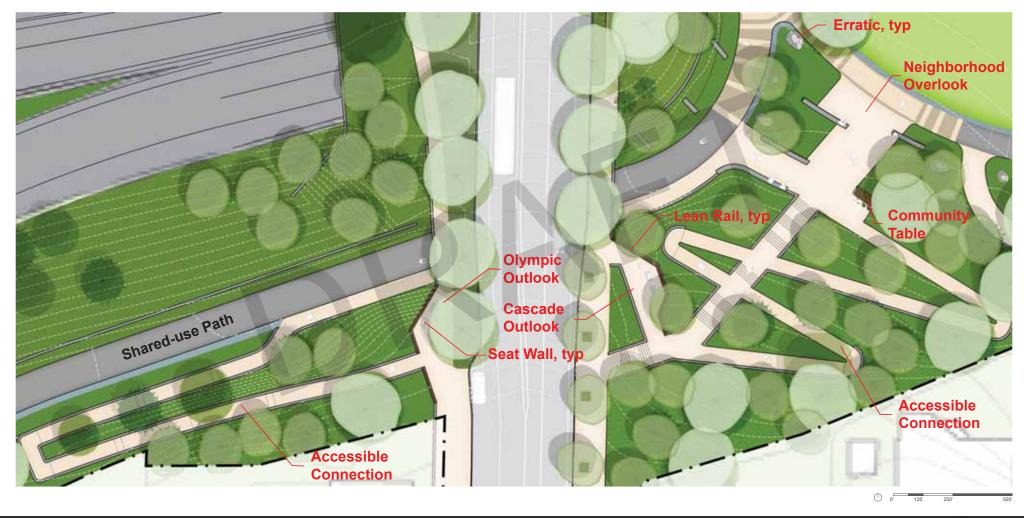








Roanoke Lid: 10th Ave Outlooks



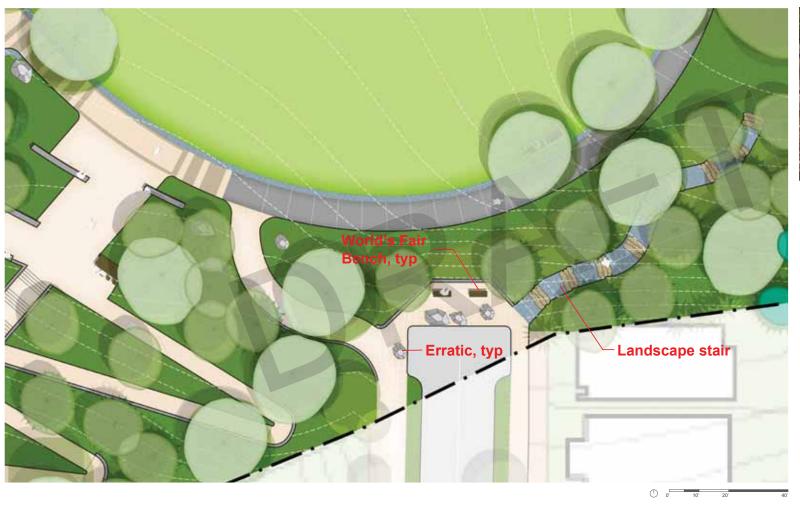
Roanoke Lid: 10th Ave Outlook Looking South West



Roanoke Lid: 10th Ave Outlook Looking North East



Roanoke Lid: Federal Overlook





Roanoke Lid: Federal Ave Overlook Looking North West







Roanoke Lid Area



Bill Dawson Underbridge









