



Community Task Force Meeting #22

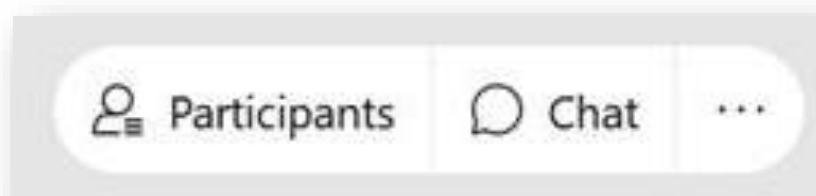
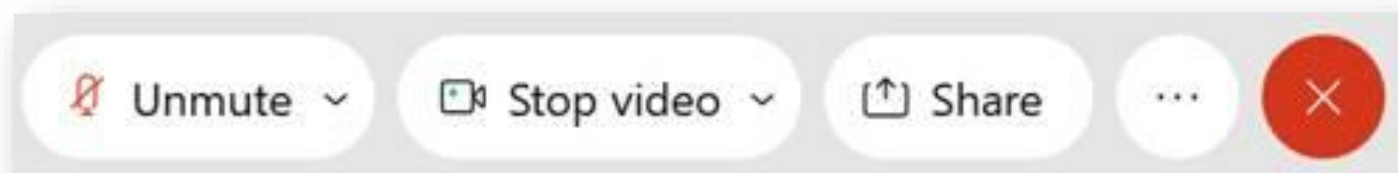
*Members join meeting via
WebEx link in calendar invite*

*NOTE: Meeting is live to the
public and recorded*

Department of Community Services
Transportation Division
December 21, 2020

Meeting Protocols

Using WebEx participation features



For WebEx tech support call or email Liz Stoppelman:

(916) 200-5123

Liz.Stoppelman@hdrinc.com



Agenda

1. Welcome, Introductions & Housekeeping
2. Public Comment
3. Project Update
4. Review & Confirm Criteria Topics and Descriptions
5. Review & Confirm Range of Bridge Types
6. Public Outreach
7. Open Discussion
8. Next Steps



Introductions and Roll Call

Community Task Force

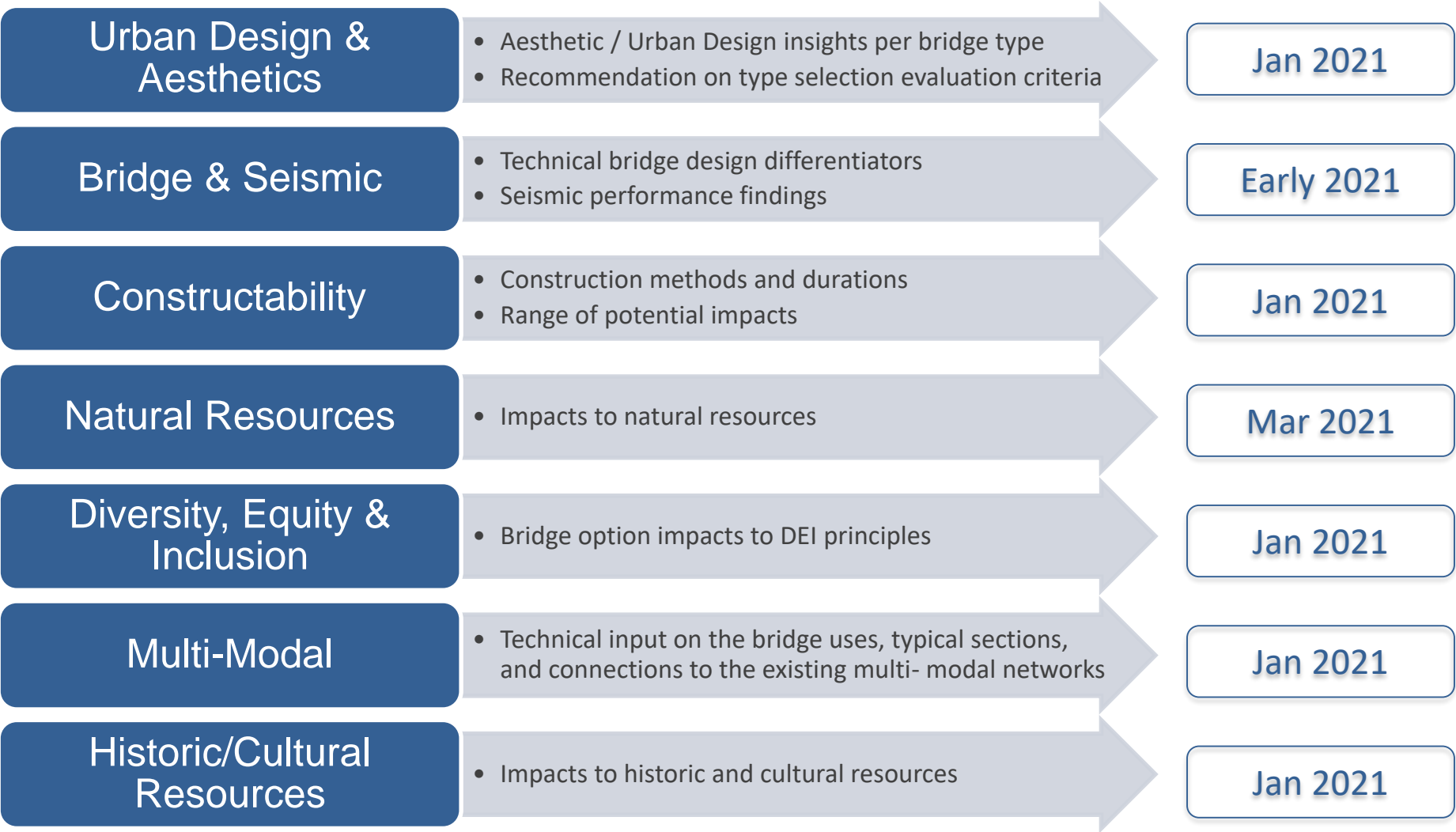
- **Amy Rathfelder**, Portland Business Alliance
- **Art Graves**, Multnomah County Bike and Pedestrian Citizen Advisory Committee
- **Dennis Corwin**, Portland Spirit
- **Ed Wortman**, Community Member
- **Frederick Cooper**, Laurelhurst Neighborhood Emergency Team and Laurelhurst Neighborhood Association
- **Gabe Rahe**, Burnside Skate Park
- **Howie Bierbaum**, Portland Saturday Market
- **Jackie Tate**, Community Member
- **Jane Gordon**, University of Oregon
- **Jennifer Stein**, Central City Concern
- **Marie Dodds**, AAA of Oregon
- **Neil Jensen**, Gresham Area Chamber of Commerce
- **Paul Leitman**, Oregon Walks
- **Peter Englander**, Old Town Community Association
- **Peter Finley Fry**, Central Eastside Industrial Council
- **Sharon Wood Wortman**, Community Member
- **Stella Funk Butler**, Coalition of Gresham Neighborhood Associations
- **Susan Lindsay**, Buckman Community Association
- **Tesia Eisenberg**, Mercy Corps
- **William Burgel**, Portland Freight Advisory Committee





Bridge Type Selection Phase

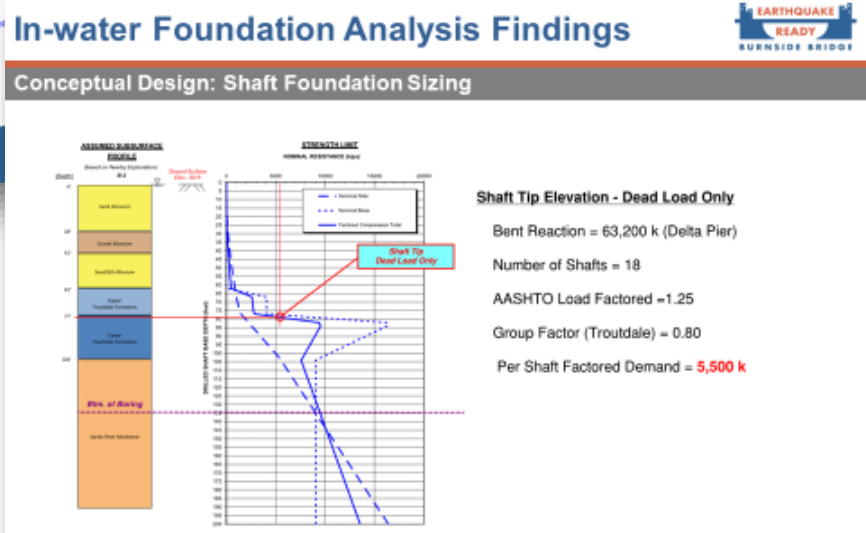
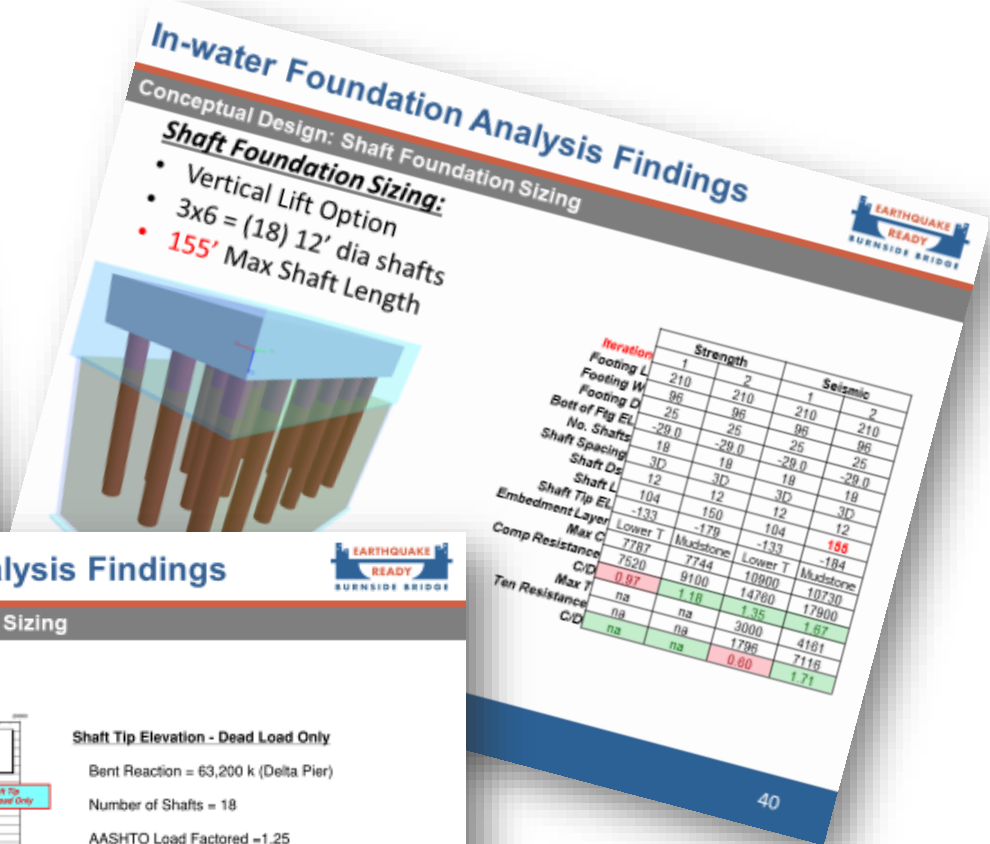
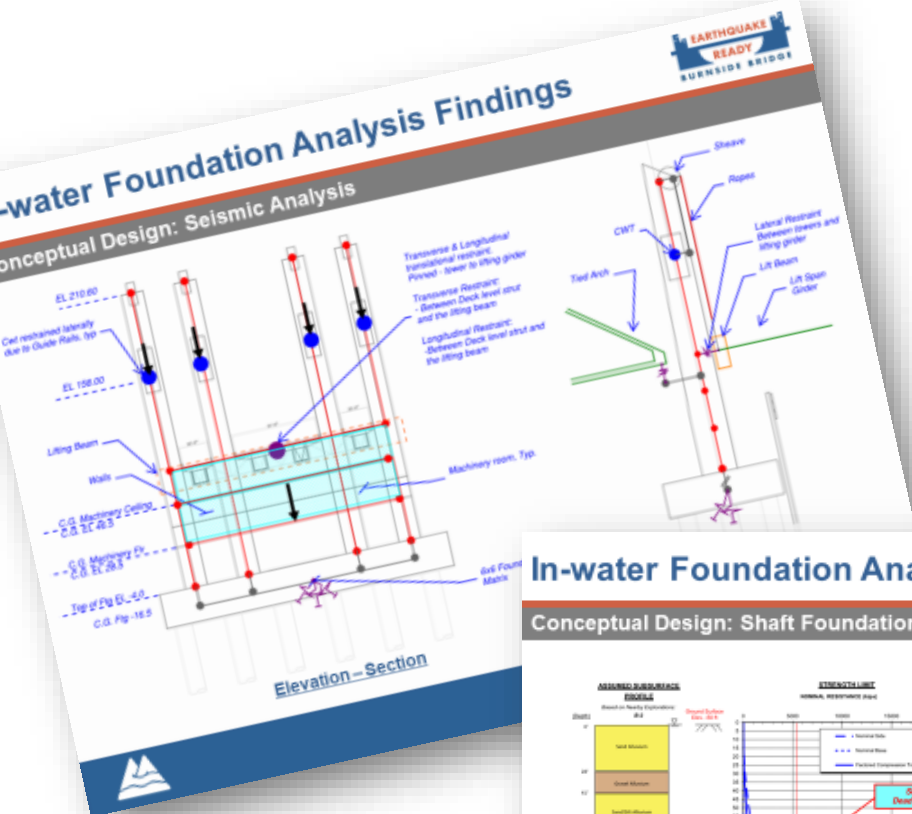
Working Groups to support the CTF



**CTF members invited to attend working group meetings as desired*

Project Update

Bridge Seismic Working Group



Project Update

Historic and Cultural Resources – Formal Section 106 Process

The Programmatic Agreement (PA) will be developed to address known project effects and mitigation to historic resources and potential effects to archaeological resources. The PA will be prepared in partnership with the Consulting Parties, with the following preliminary schedule.

**Draft PA:
February**

**30-Day Comment
Period**

**Revised Draft PA:
April**

**30-Day Comment
Period**

**Final Draft PA:
June**

**30-Day Comment
Period**

Final PA: August



Project Update

Historic and Cultural Resources – Exploring Potential Mitigation

Potential Mitigation Ideas

- Adaptations to bridge design
- Incorporation of public art
- Use of historic bridge components in the new design or area
- Update Historic American Engineering Record (HAER)
- Oral history project
- Interpretive panels
- Support historic documentation efforts of local repositories
- Online encyclopedia submissions
- Creation of a museum exhibit
- Documentation of Willamette River crossings



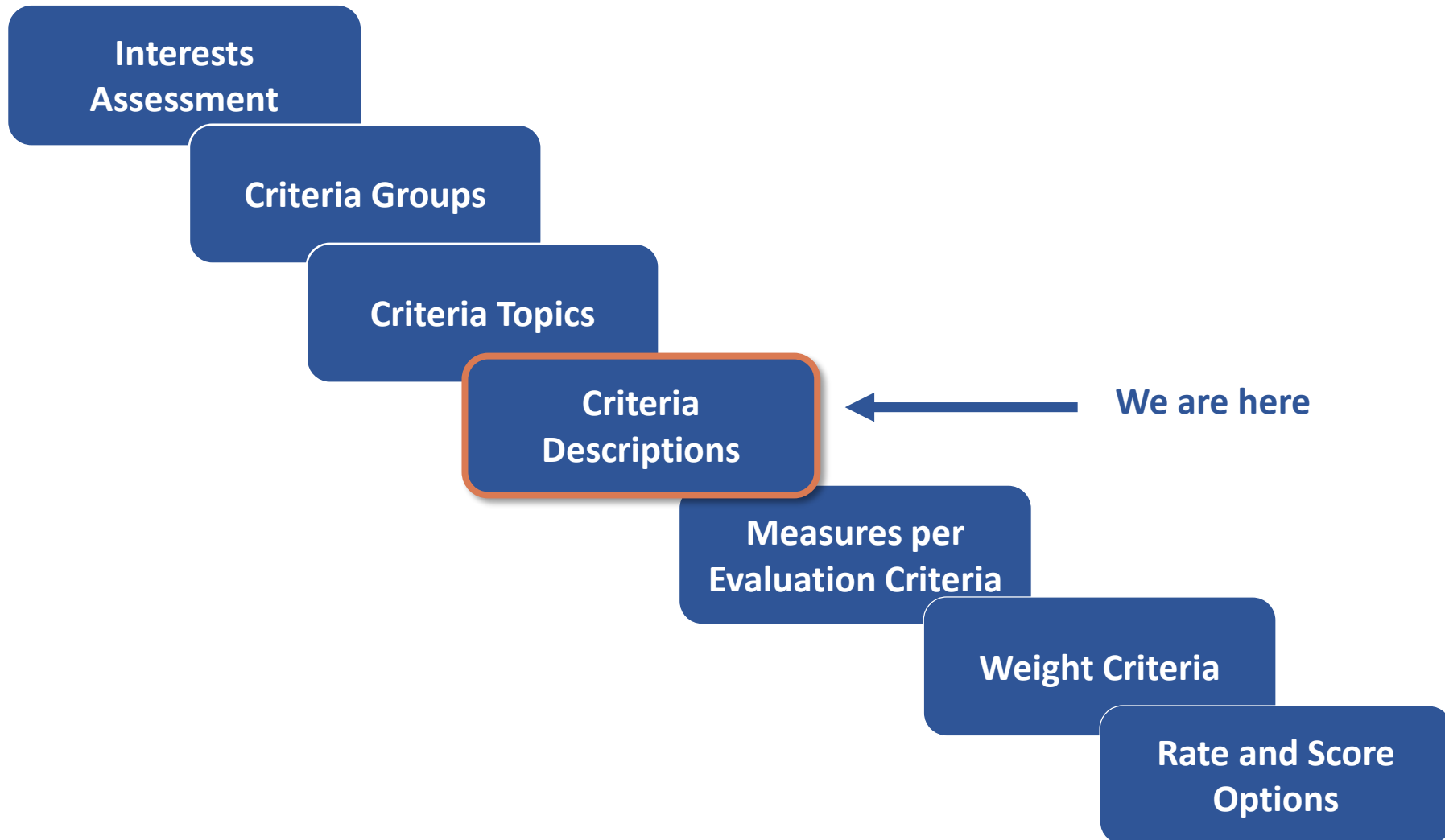
Technical Reports

- Acquisitions and Relocations
- Air Quality
- Climate Change*
- Economics
- Environmental Justice and Equity*
- Floodplain and River Hydraulics
- Geology
- Hazardous Materials
- Health Impact Assessment*
- Historic and Archaeological Resources
- Land Use
- Noise and Vibration
- Parks and Recreation
- Public Services
- River Navigation
- Social and Neighborhood Resources
- Transportation
- Utilities
- Vegetation, Wildlife, and Aquatic Resources
- Visual and Aesthetic Resources
- Water Quality
- Wetlands and Waters



Criteria Development

Evaluation Process - *Steps in Getting to a Recommended Bridge Type*



Criteria Development



Refined Criteria Topics for Review

Human Experience & Bridge Surroundings

- On-bridge Experience
- Below-bridge Experience
- Relation to Surroundings
- Pedestrian and Cyclist Connectivity

Overall Look & Feel of the Bridge

- Bridge Overall Look
- Bridge Form and Style
- Flexible Design

Cost & Construction Impacts to Users

- Total Project Cost
- Long Term Costs
- Construction Impacts



Refined Criteria Topics and Definitions for Review

1. Human Experience & Bridge Surroundings

- A. On-bridge Experience:** How well does the option provide benefits to people when they are on the bridge?
- B. Below-bridge Experience:** How well does the option provide benefits to people when they are under the bridge (in areas such as parks, roads, the river)?
- C. Relation to Surroundings:** How well does the option's scale and form complement the character of surrounding neighborhoods, buildings, parks and historic districts/structures while being distinctive?
- D. Pedestrian and Cyclist Connectivity:** How well does the option ensure safe and accessible connections on and off the bridge for people walking, biking or with disabilities?

(Note: likely common to all options; not expected to be differentiating.)



Refined Criteria Topics and Definitions for Review

2. Overall Look & Feel of the Bridge

- A. Bridge Overall Look:** How well does the option's overall form create a look of balance, unity, and flow from key viewpoints above, under, and away from the bridge?
- B. Bridge Form and Style:** How well does the option acknowledge the historic surroundings while presenting a seismically-resilient, modern design that sets the tone for future development throughout its 100-year design life?
- C. Flexible Design:** How well does the option allow flexibility for engineering and architectural features in final design, as well as adaptability of the bridge for future user needs?



Refined Criteria Topics and Definitions for Review

3. Cost and Construction Impacts to Users

- A. Total Project Cost:** How well does the option minimize the Project's total cost?
- B. Long Term Costs:** How well does the option minimize long-term costs and support future needs after construction?
- C. Construction Impacts:** How well does the option minimize impacts to the traveling public and surrounding property owners and tenants during construction?



Criteria Development

Urban Design and Aesthetics Working Group – Evaluation Criteria Recommendations



Multnomah County is creating an earthquake-ready downtown river crossing.

November 18, 2020

DRAFT Evaluation Criteria

1 Urban Context and Experience

- A. On-bridge Experience:** How well does the bridge option provide public benefits from its deck surface, including:
- Views from the bridge deck towards:
 - The cityscape, including downtown and the Eastside
 - Distant landscapes and natural environment (West hills, Willamette River, Mt Hood, Mt St Helens, and open skies)
 - Adjacent bridges in the up-river and down-river directions
 - Other key viewpoints (e.g., Portland Oregon sign, Oregon Convention Center towers, Moda Center, Waterfront Park, US Bank Tower)
 - Bridge type that provides opportunities for programming and public events (such as the Rose Festival Parade) and civic gatherings
 - (Note: Likely common to all options; Not expected to be differentiating)* Pedestrian and bicycle safety: sight lines, lighting and physical separation of modes
 - (Note: Likely common to all options; Not expected to be differentiating)* Ability to provide river overlooks for pedestrians to stop and enjoy
- B. Urban Setting:** How well does the bridge option's scale and form authentically fit with the scale and character of surrounding neighborhoods, buildings, parks and districts, including the:
- Old Town/Chinatown and Downtown neighborhoods, including the Skidmore / Old Town Historic District (75 ft. height limit)
 - Tom McCall Waterfront Park and its existing trees
 - West bridgehead buildings and physical infrastructure shapes, scale, textures, and colors
 - Kerns and Buckman neighborhoods and Central Eastside Industrial District (250 ft. height limit)
 - East bridgehead buildings and physical infrastructure shapes, scale, textures, and colors
- C. Public Use and Context:** How well does the bridge option fit within park and river environments under and adjacent to the bridge, including:



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Multnomah County is creating an earthquake-ready downtown river crossing.

November 18, 2020

- Ability to improve safety by minimizing columns, and creating adequate sightlines and clearances beneath the bridge structure
 - Ability to further activate and enhance the under-bridge space within Waterfront Park for community events and other programmed activities (e.g., Portland Saturday Market, Bridgetown Nightbike, etc)
 - Flexible open space and opportunity for an "urban roof" that provides public benefit
 - Integration with the Japanese American Memorial Plaza, Ankeny Plaza, Bill Naito Legacy Fountain, Better Naito Forever, and Vera Katz Eastbank Esplanade
 - Compatibility with the varied Willamette River uses, water-surface variability, and reflectiveness on the river surface
 - Compatibility with the Burnside Skate Park and local streetscape on the East side
 - Attractive under-bridge design consideration, including lighting, materials and detailing
- D. (Note: Likely common to all options; Not expected to be differentiating)** Pedestrian and Cyclist Connectivity: How well does the bridge ensure that safe and accessible pedestrian and bike connections will be made down to grade, considering:
- Americans with Disabilities Act
 - West bridge deck to Waterfront Park, Naito Parkway, SW 1st and SW 2nd Avenues
 - East bridge deck to surrounding local streets and pedestrian open spaces

Visual and Aesthetics

Visual Coherence: How well does the bridge option's composition provide the perception of visual symmetry, balance, unity, and flow from key viewpoints, including:

- Willamette River
- Waterfront Park
- Bank Esplanade
- 84 users
- Lead buildings
- Buildings
- Existing bridges

Visual Style: How well does the bridge option:

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Multnomah County is creating an earthquake-ready downtown river crossing.

November 18, 2020

- Express the Portland values and aspirations for inclusiveness, resiliency, accessibility, creativity, optimism, vitality, sustainability, and freedom of expression
 - Become an identifiable landmark and destination within the city
 - Balance the qualities of overall composition, openness and transparency (i.e., minimizing the massing) while conveying a sense of seismic stability and reliability
 - Respect the past and context while presenting a "forward-thinking" design aesthetic that sets the tone for future urban development and growth throughout its 100-year design life
 - Reflect proportions and scale that feel balanced among the various structural portions of the bridge
 - Honor Portland's moniker as a "City of Bridges" and its unique location as the center of the city
 - (Note: Likely common to all options; Not expected to be differentiating)* Reflect Portland's transportation values in bicycle and pedestrian safety and accessibility
- C. Bridge Aspirations:** How well does the bridge option enable opportunities for:
- Memorable, distinctive lighting for nighttime viewing
 - Creation of a gateway and enhanced sense of arrival to and from each side of the river exposing the movable bridge mechanisms
 - Tactile, human/pedestrian-scale features within its public spaces, including overlooks
 - A wide range of complementary secondary design features (e.g., Operator's House, Multi-use path connections, Streetcar elements, public art, overlooks, etc.) to be selected during the Final Design phase
 - (Note: Likely common to all options; Not expected to be differentiating)* A reduction in bridge noise and as generated by the freeway
 - (Note: Likely common to all options; Not expected to be differentiating)* Additional sustainable and equitable design principles to be incorporated during the Final Design phase

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Discussion / Recommendation



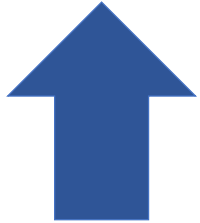


**Do you recommend these
criteria topics?**

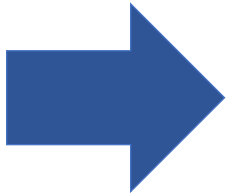


CTF Recommendation

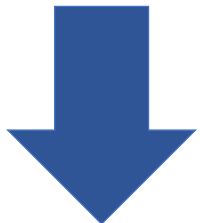
Voting Procedure



Thumb Up = Support Recommendation



Middle Thumb = I Can Live With Recommendation

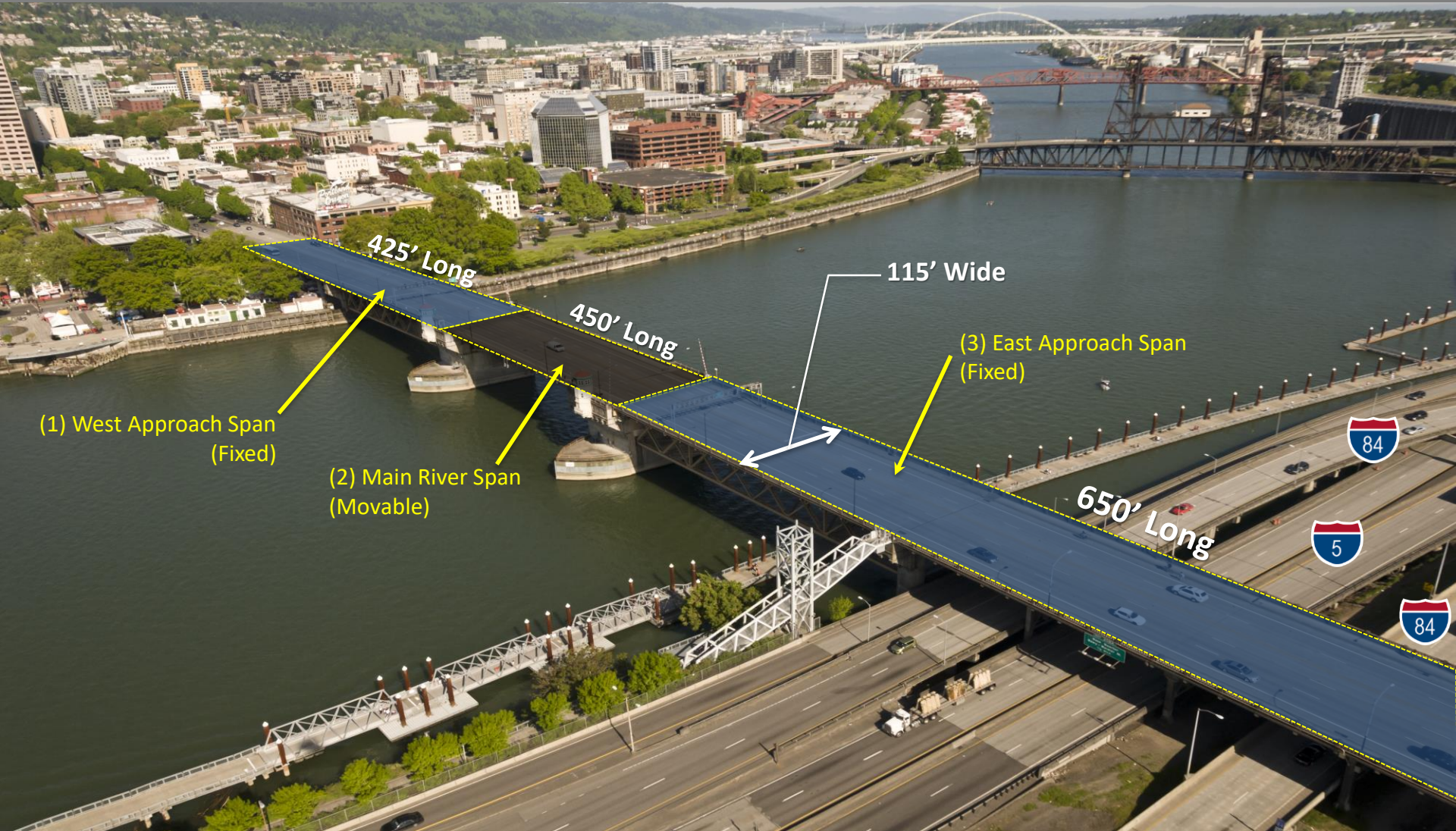


Thumb Down = Do Not Support Recommendation



Range of Bridge Types

Long-span Alternative: "Three bridges in one"



Range of Bridge Types

Long Span

Tied Arch



Truss



Cable Stayed / Extradosed



Girder (applicable to west approach only)



Range of Bridge Types

Movable Span

Lift



Bascule



Range of Bridge Types

Tied Arch

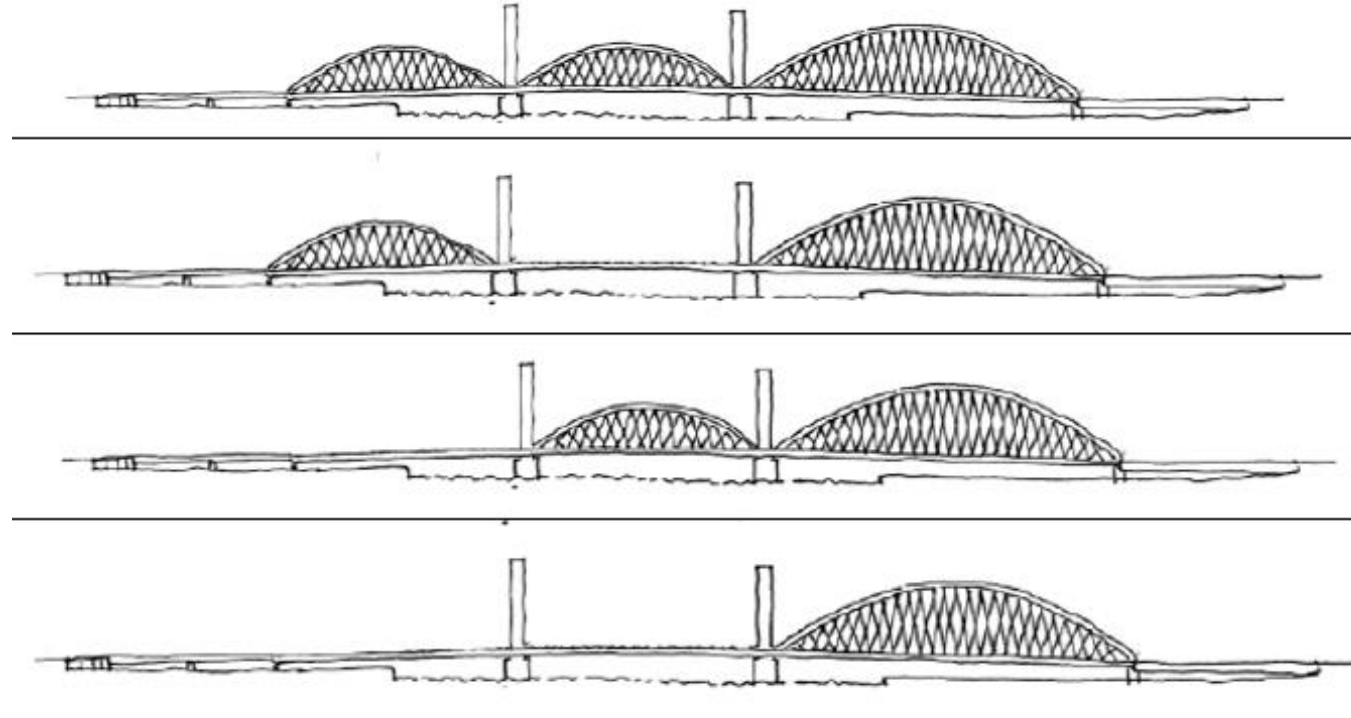


(Example concept image.)

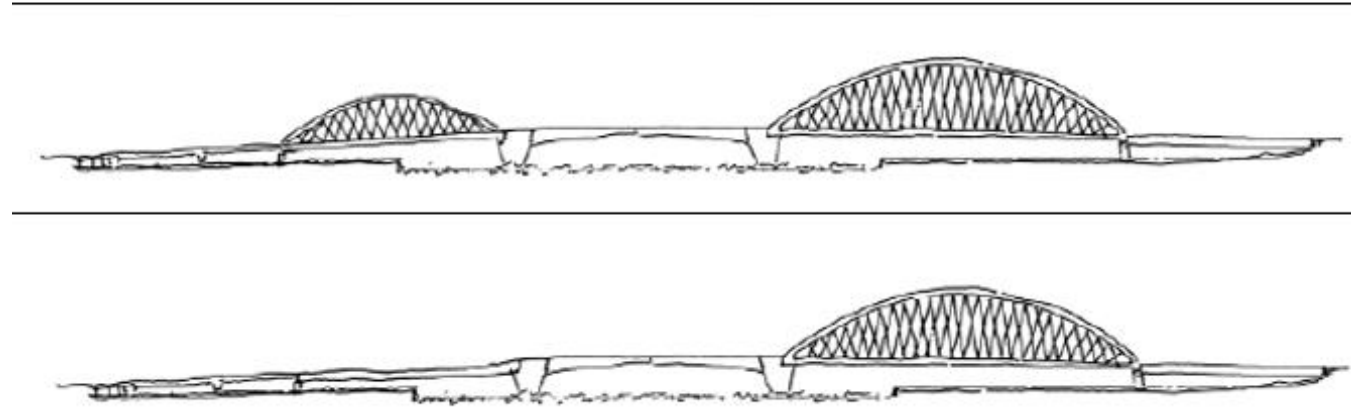
Range of Bridge Types

Tied Arch Variations

Lift Options



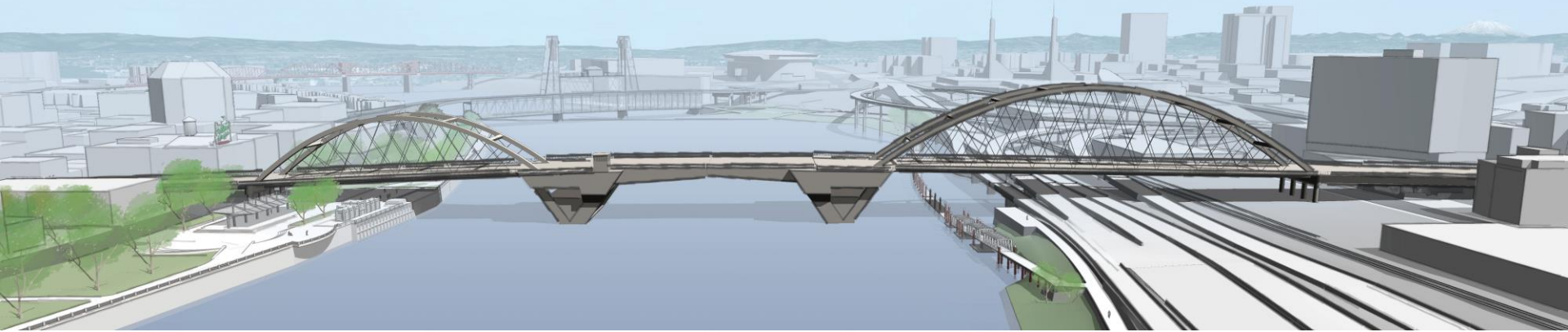
Bascule Options



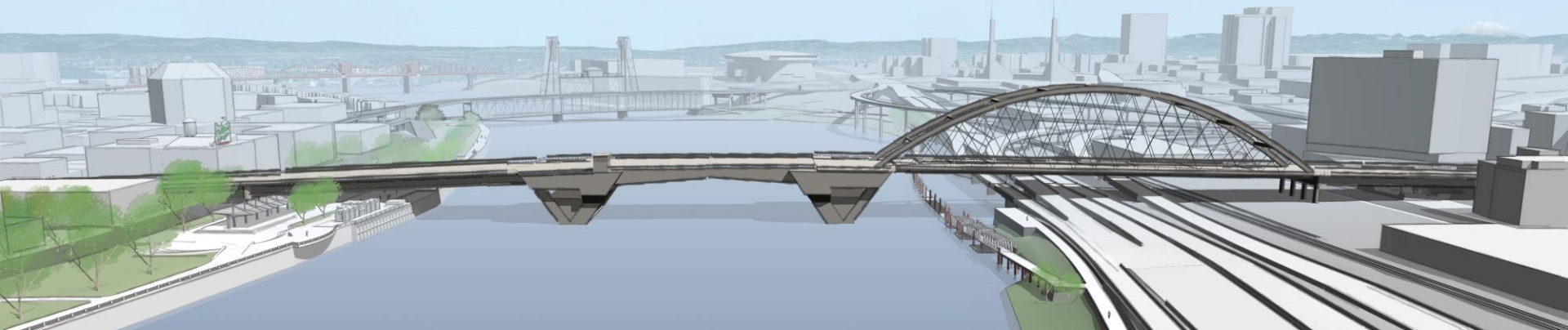
Range of Bridge Types

Tied Arch + Bascule Variations

West span = Tied Arch



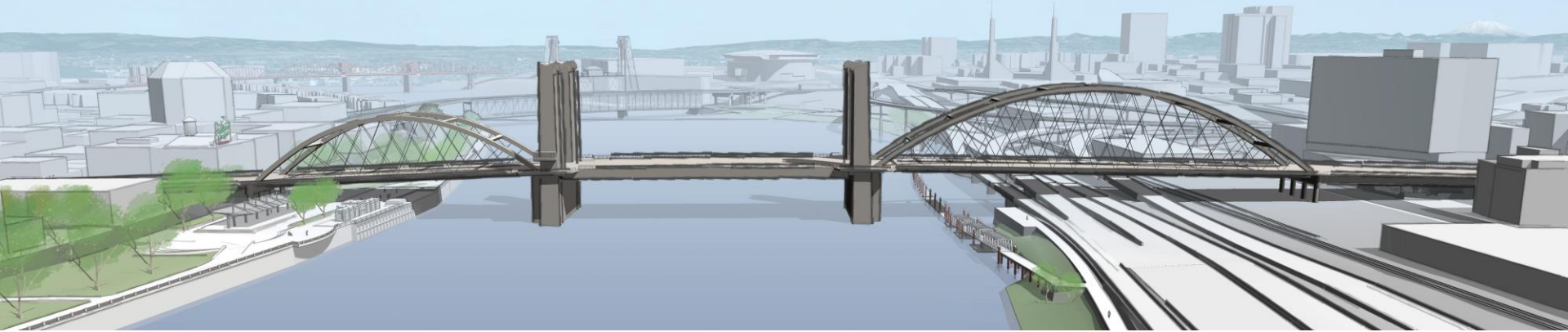
West span = Girder



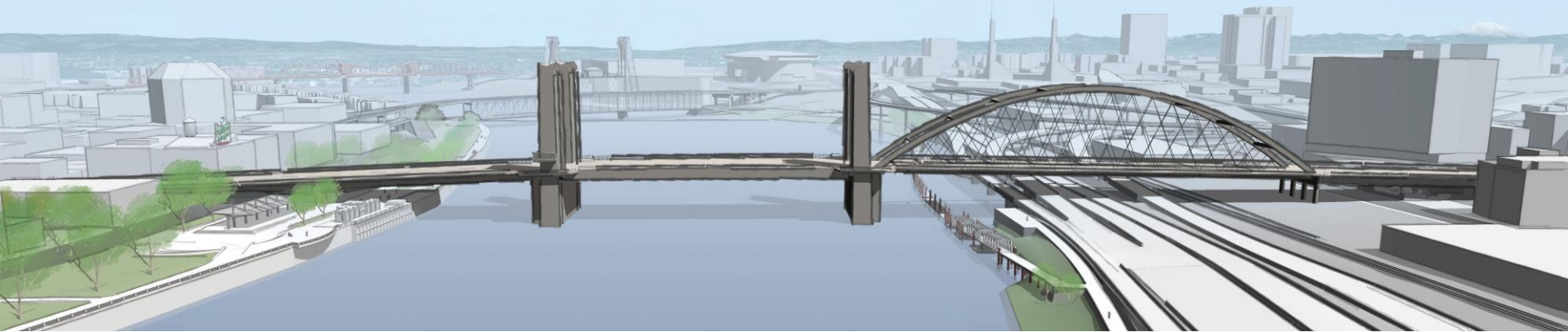
Range of Bridge Types

Tied Arch + Lift Variations

West span = Tied Arch



West span = Girder



Range of Bridge Types

Truss

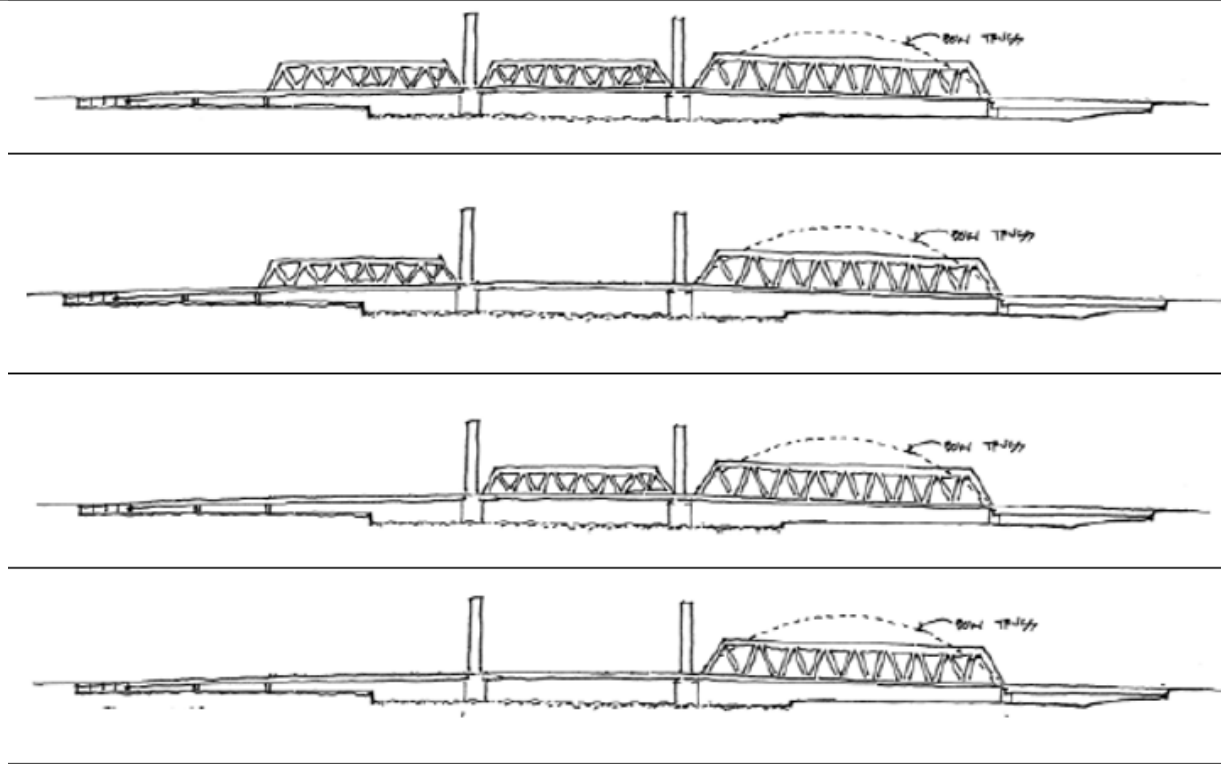


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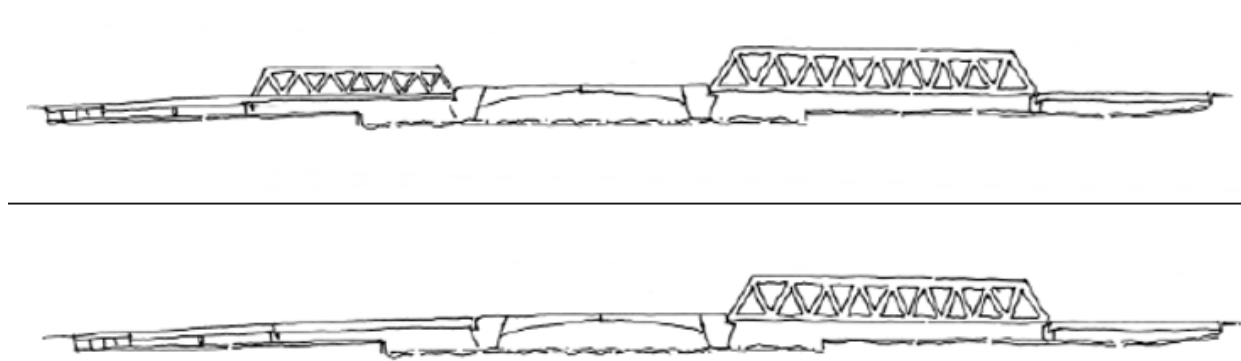
Range of Bridge Types

Truss Variations

Lift Options



Bascule Options



Range of Bridge Types

Truss + Bascule Variations

West span = Truss



West span = Girder



Range of Feasible Bridge Types

Truss + Lift Variations

West span = Truss

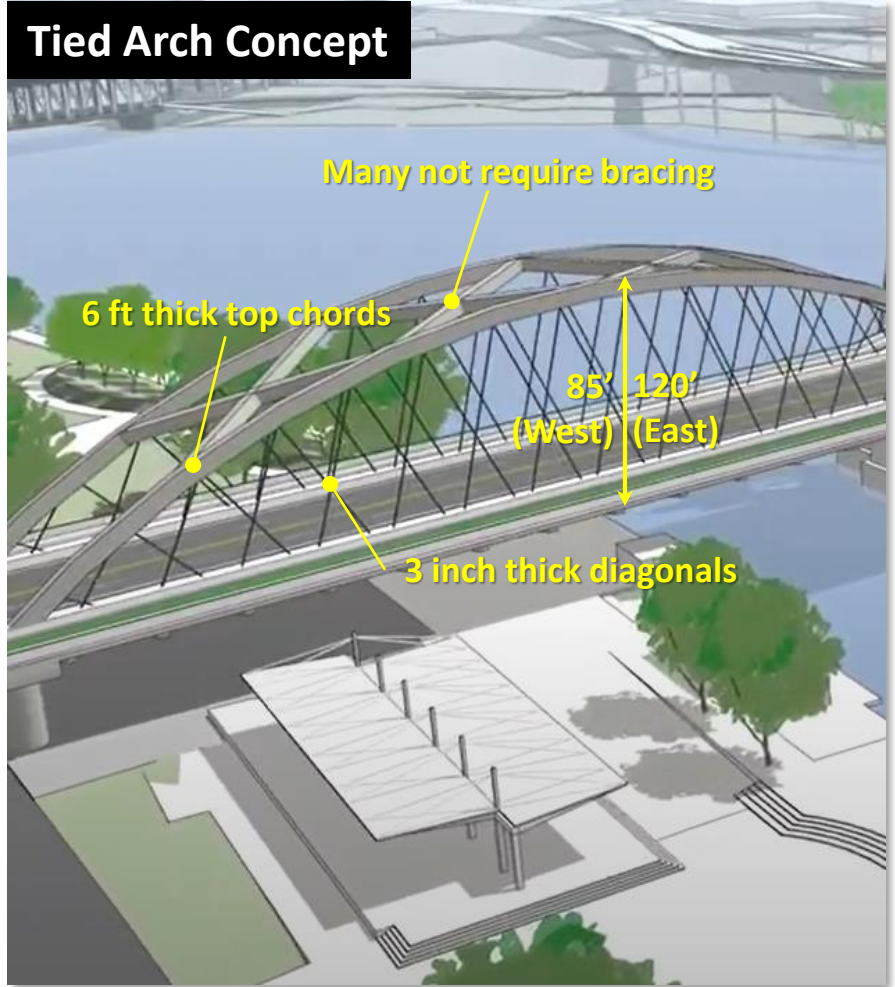
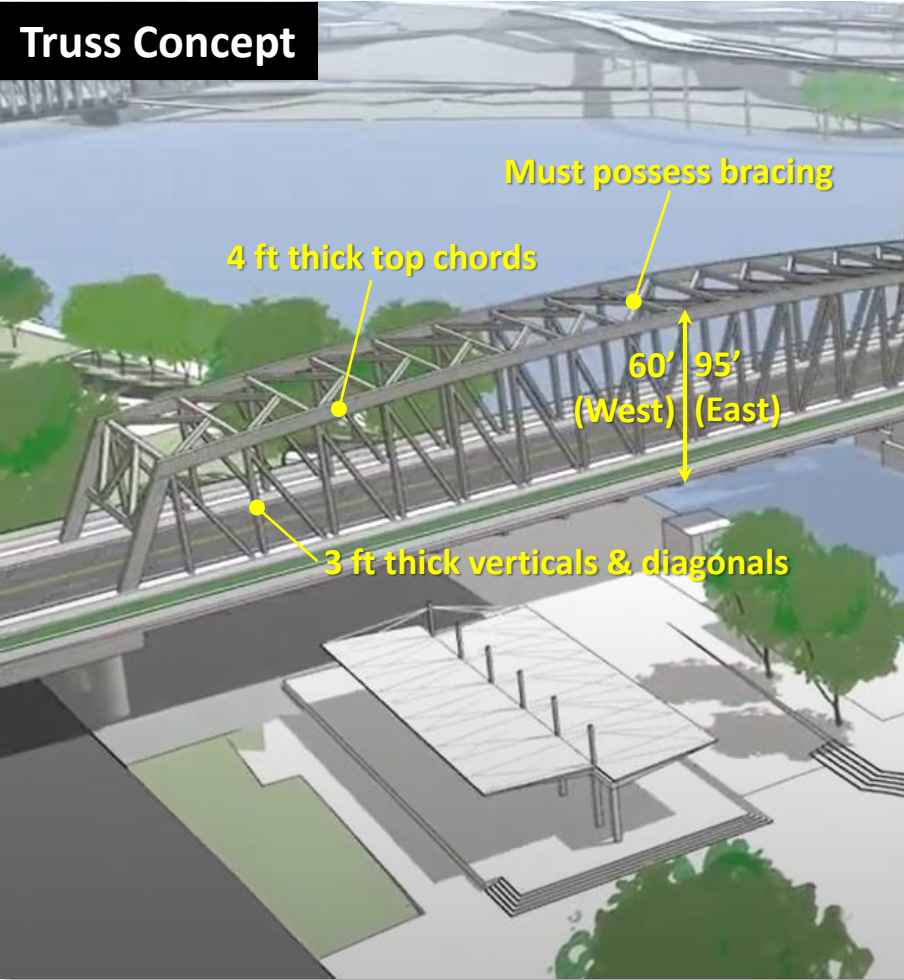


West span = Girder



Range of Bridge Types

Truss comparison with Tied Arch



Range of Bridge Types

Cable Stayed / Extradosed

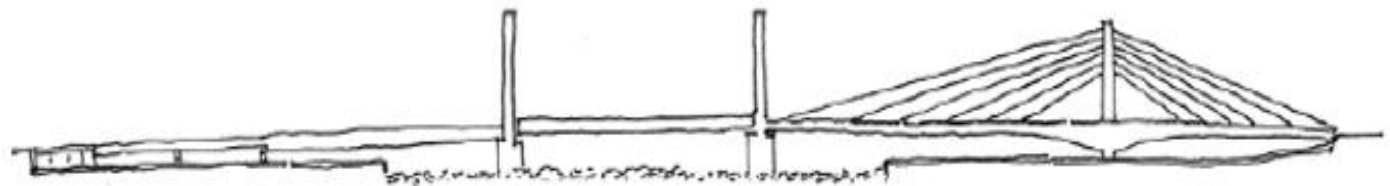
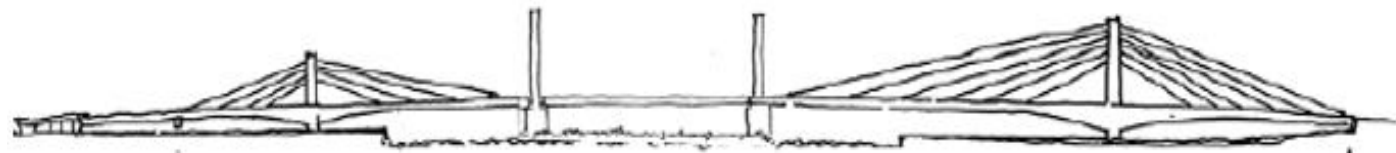
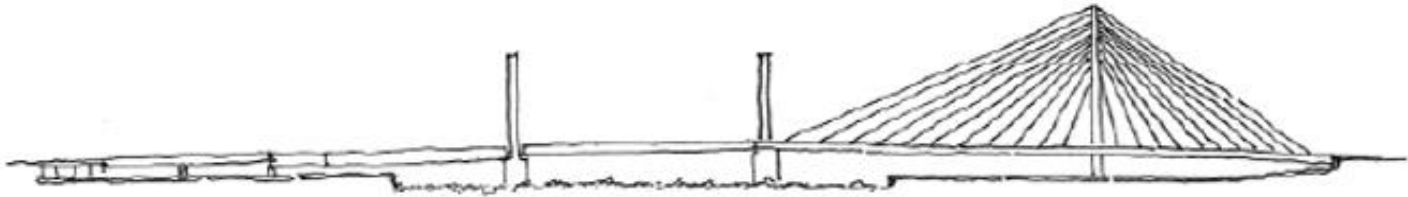


(Example concept image.)

Range of Bridge Types

Cable Stayed / Extradosed + Lift Variations

Lift
Options



Range of Bridge Types

Cable Stayed / Extradosed + Bascule Variations

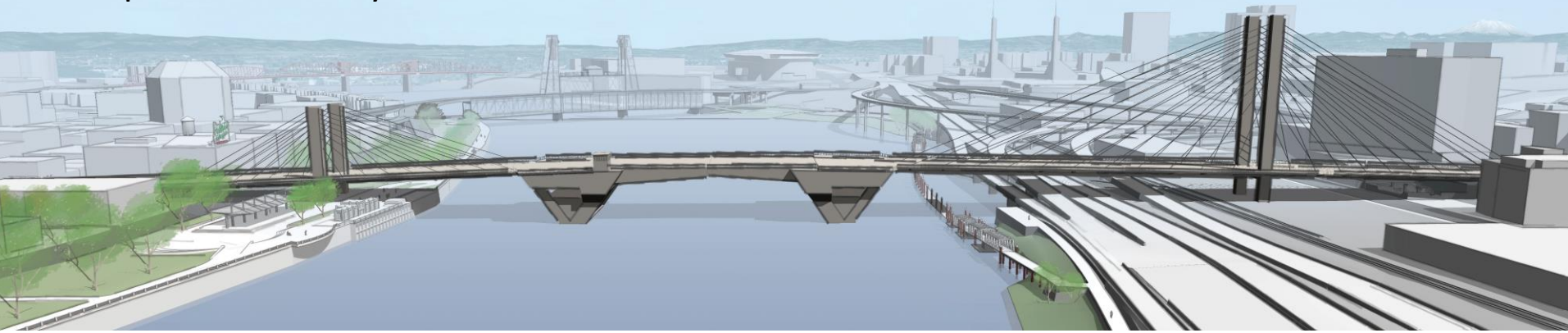
**Bascule
Options**



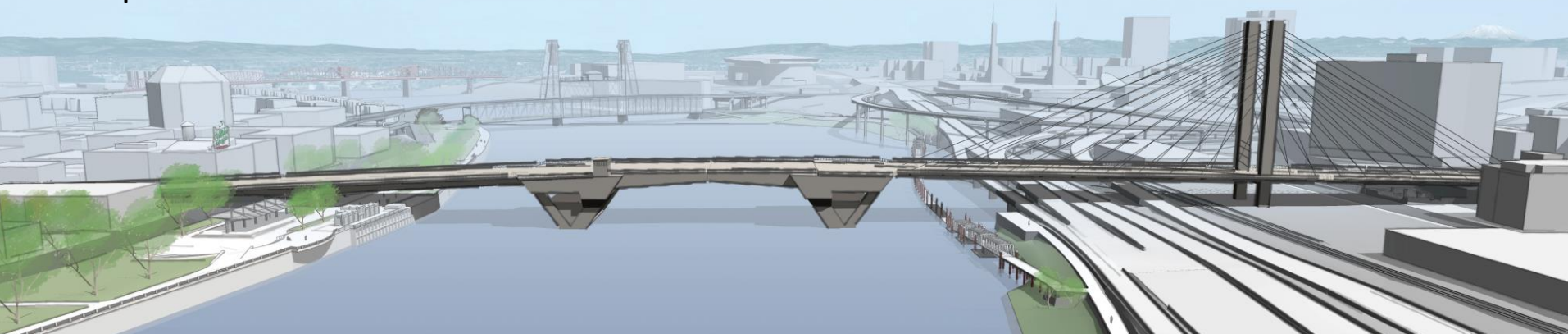
Range of Bridge Types

Cable Stayed / Extradosed – Bascule Variations

West span = Cable Stayed



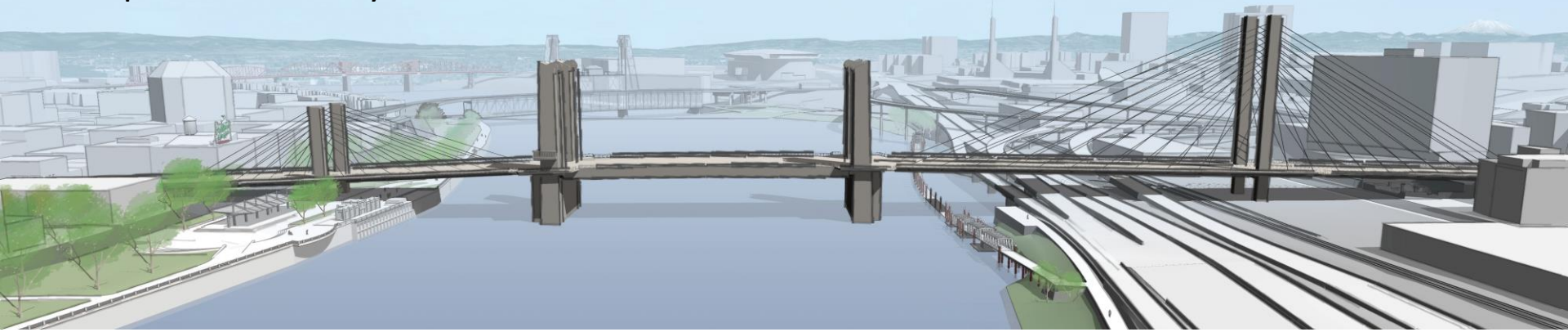
West span = Girder



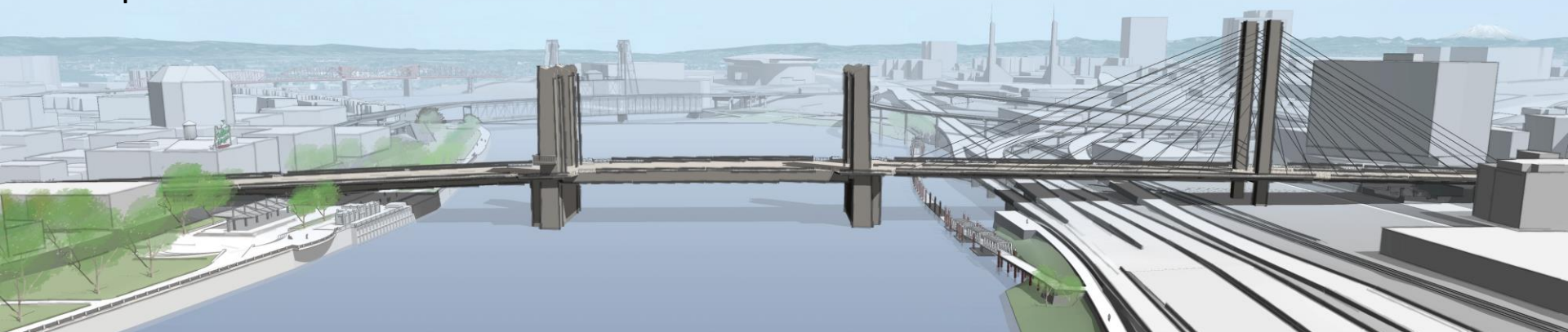
Range of Bridge Types

“Balanced” Cable Stayed / Extradosed – Lift Variations

West span = Cable Stayed



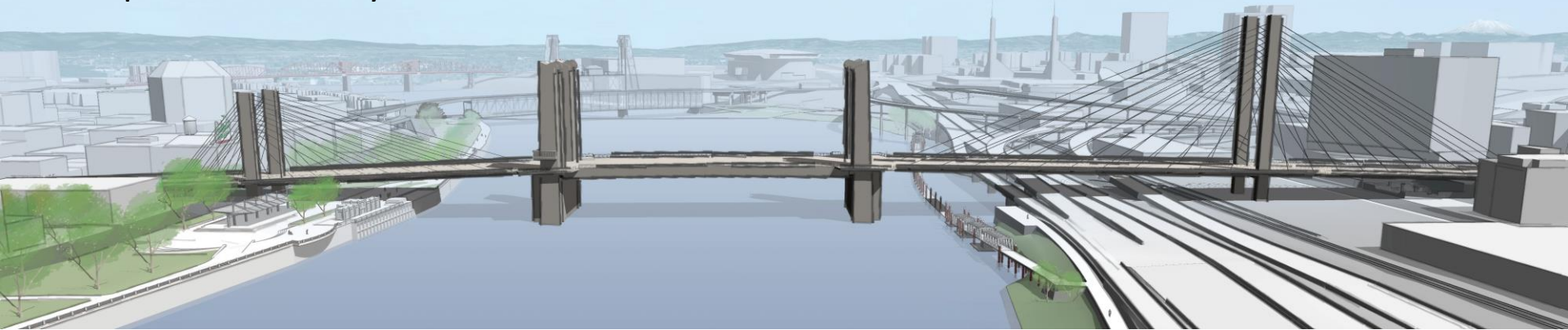
West span = Girder



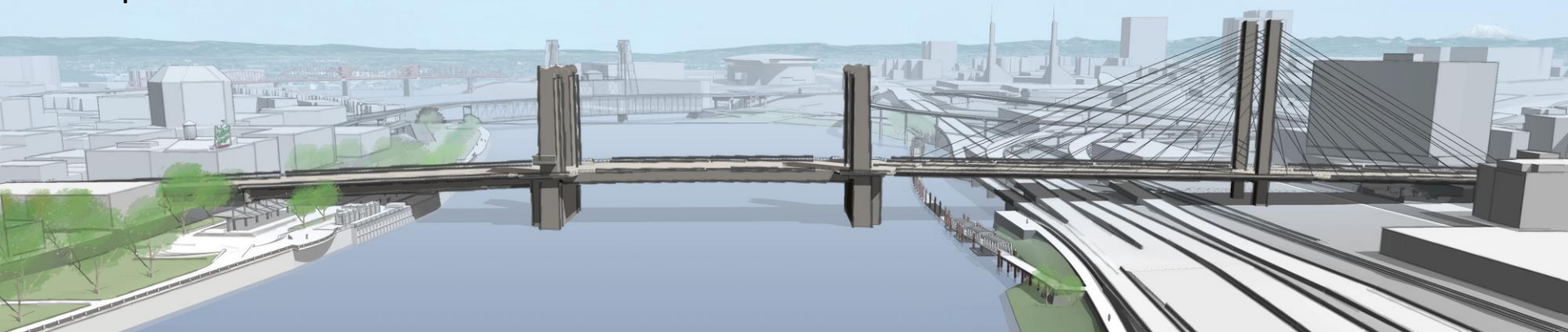
Range of Bridge Types

“Unbalanced” Cable Stayed / Extradosed – Lift Variations

West span = Cable Stayed

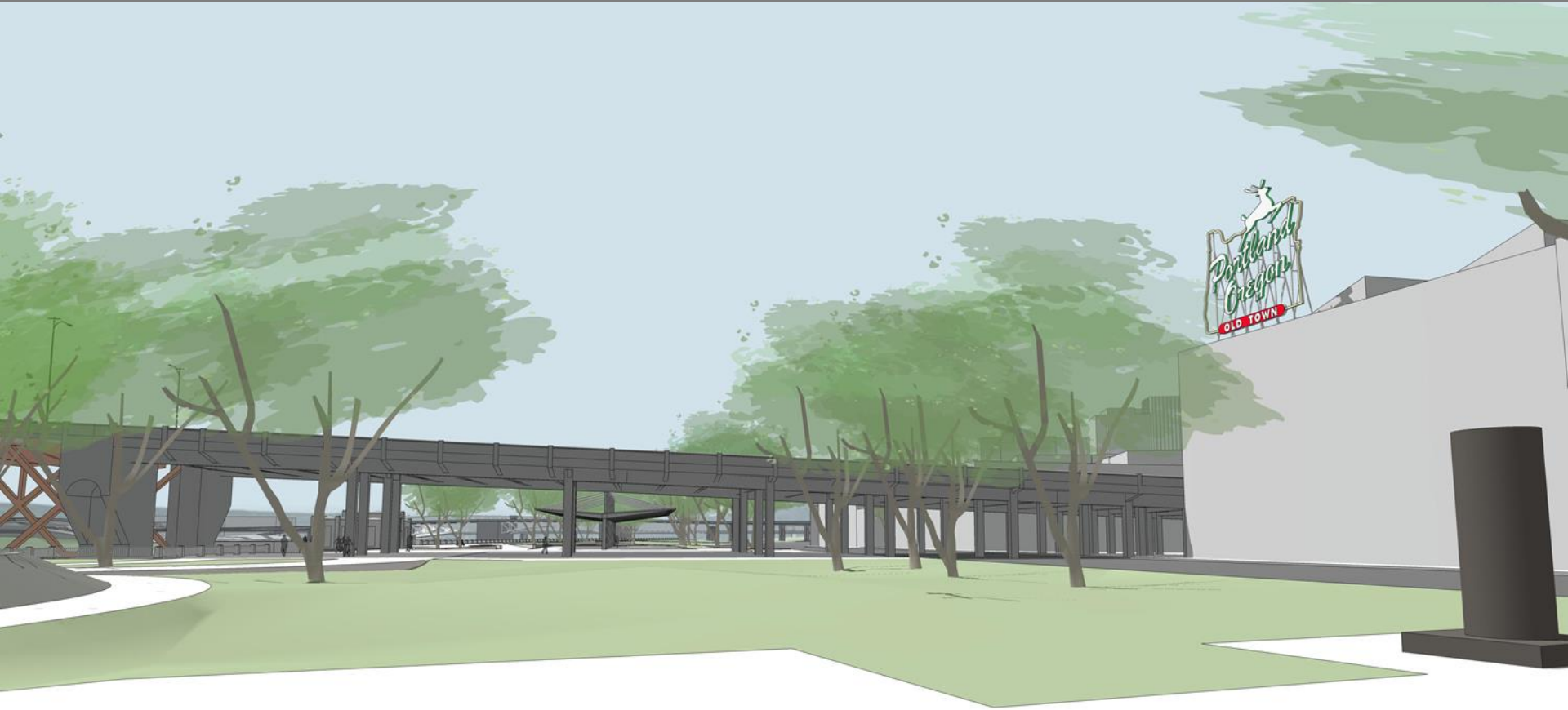


West span = Girder



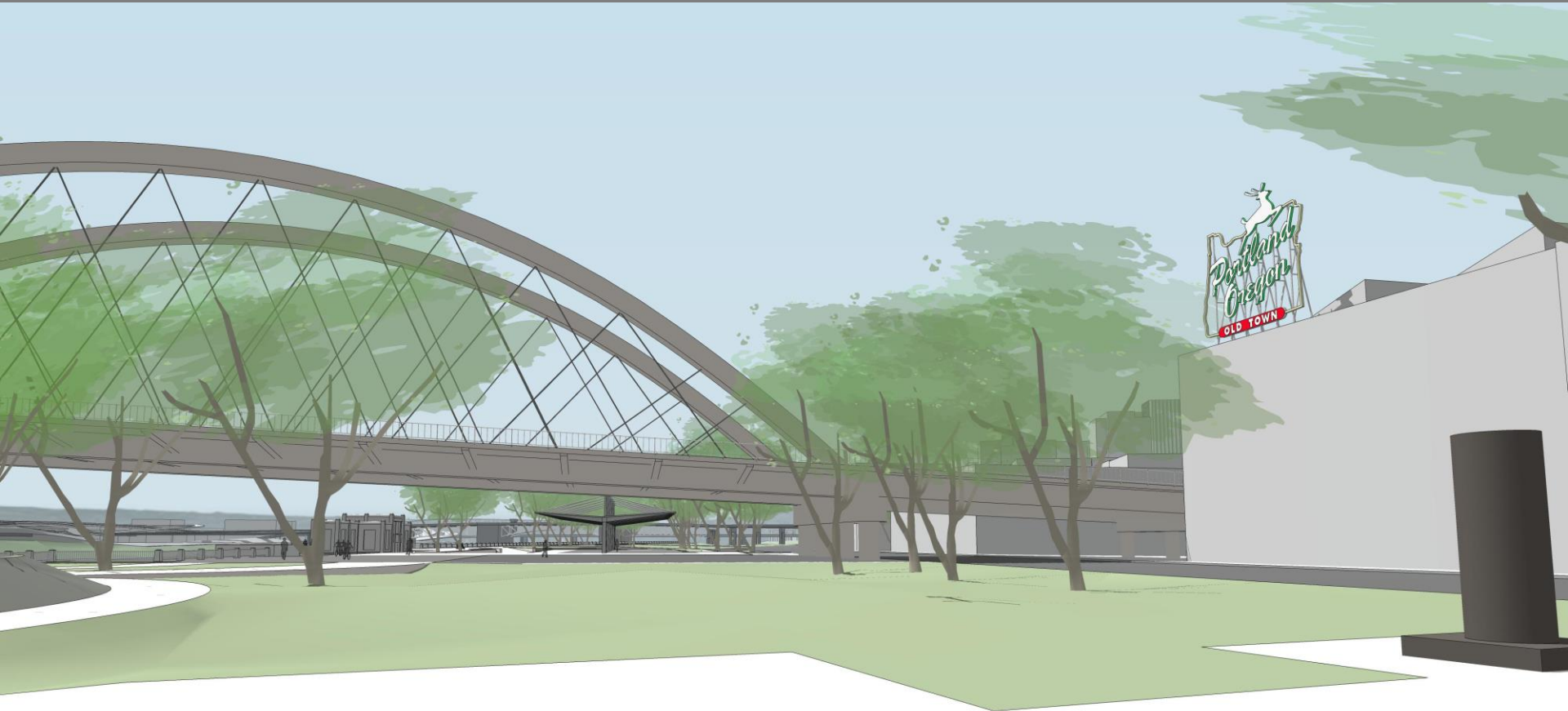
Range of Bridge Types

Waterfront Park: Existing Condition



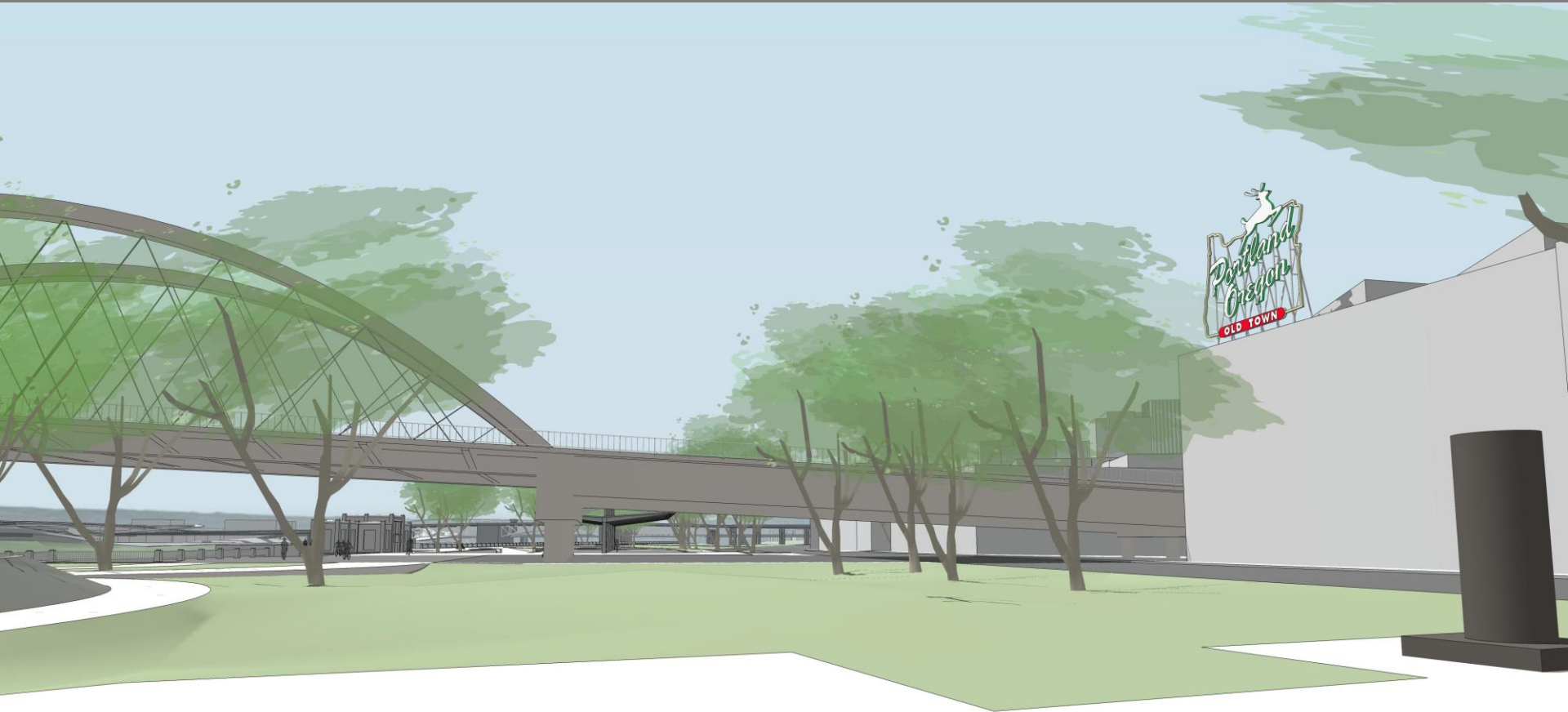
Range of Bridge Types

Waterfront Park: Tied Arch Option



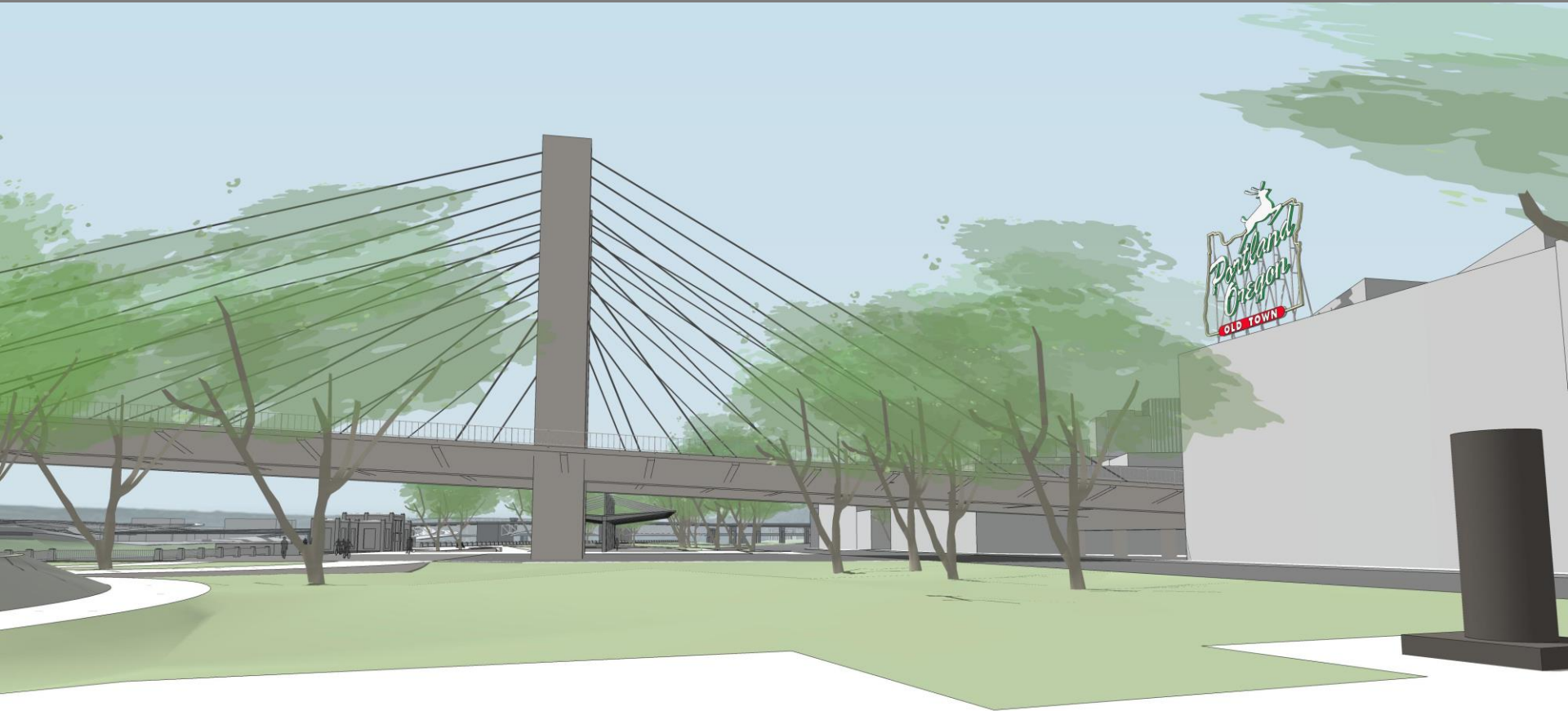
Range of Bridge Types

Waterfront Park: “Shorter” Tied Arch + Girder Option



Range of Bridge Types

Waterfront Park: “Balanced” Cable Stayed Option



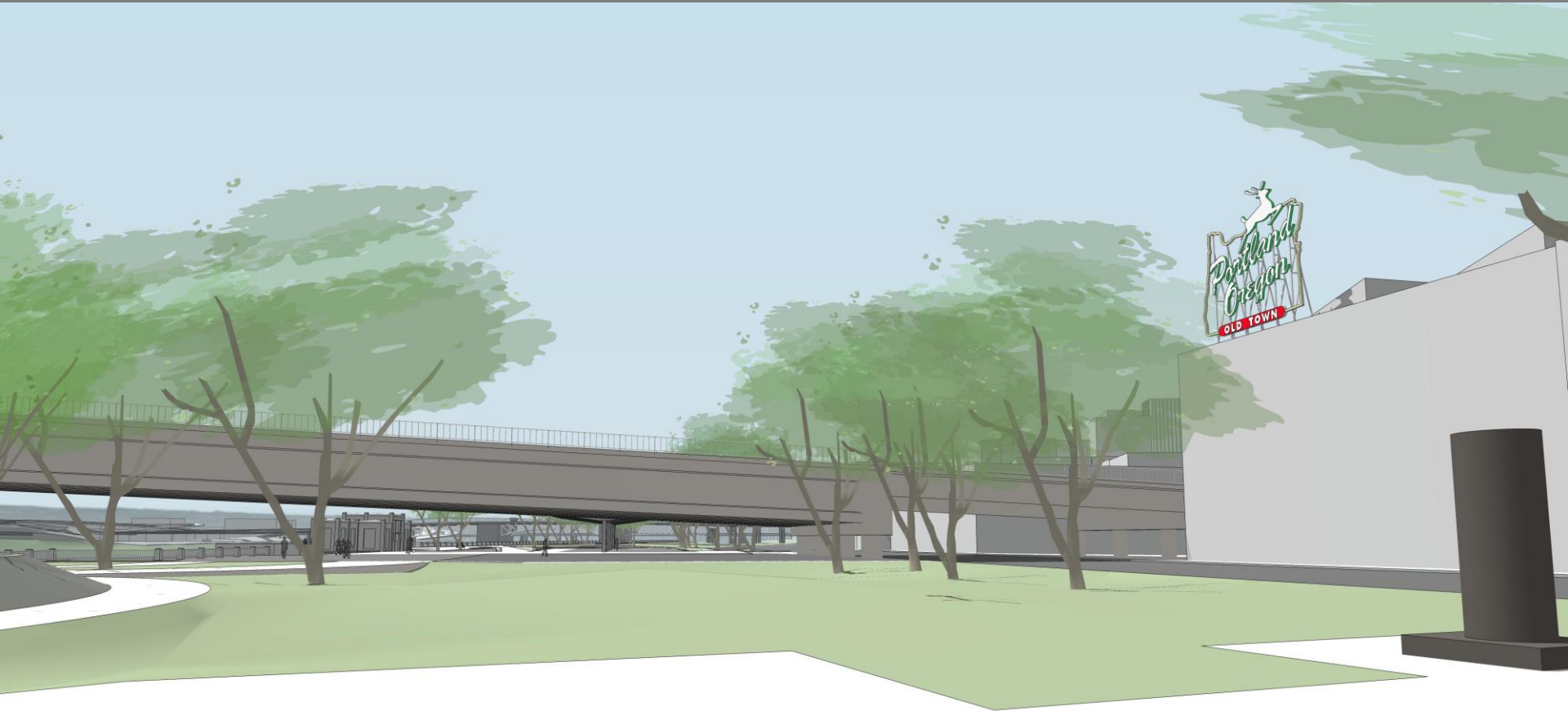
Range of Bridge Types

Waterfront Park: “Unbalanced” Cable Stayed Option



Range of Bridge Types

Waterfront Park: “Longer” Girder Option



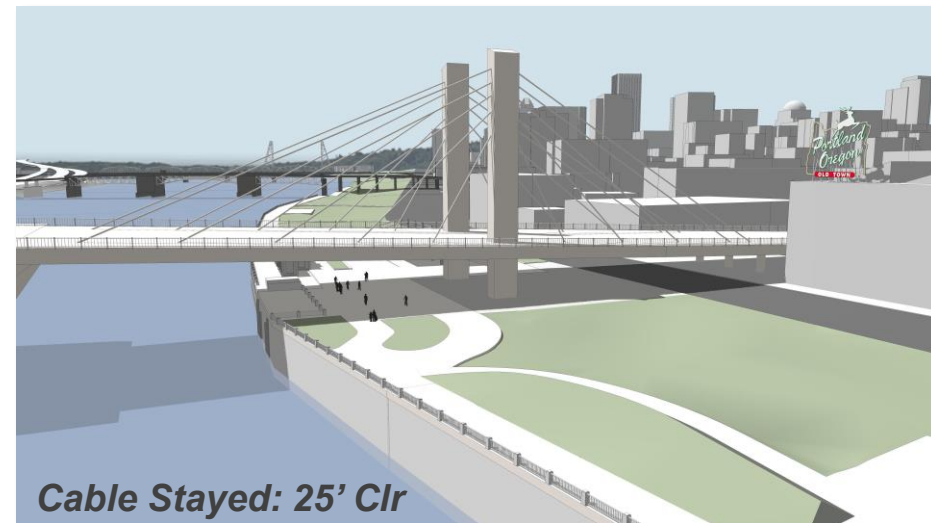
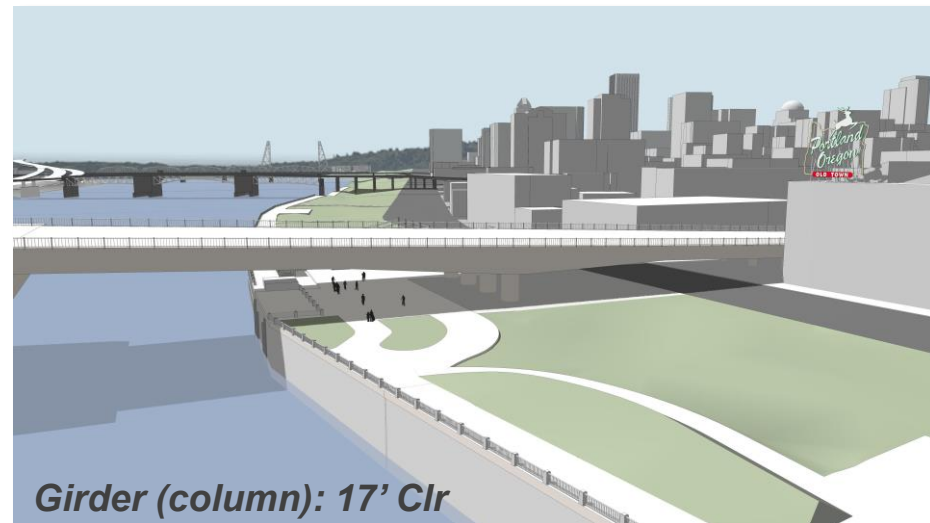
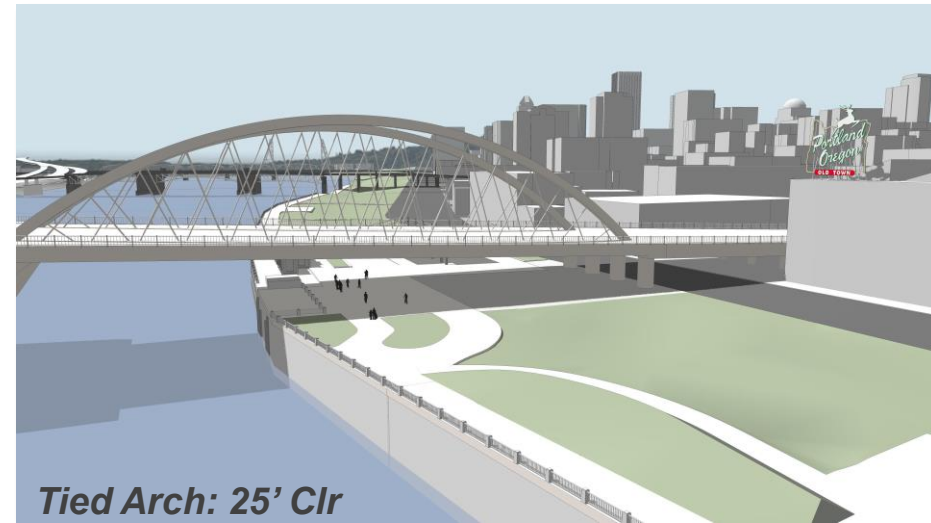
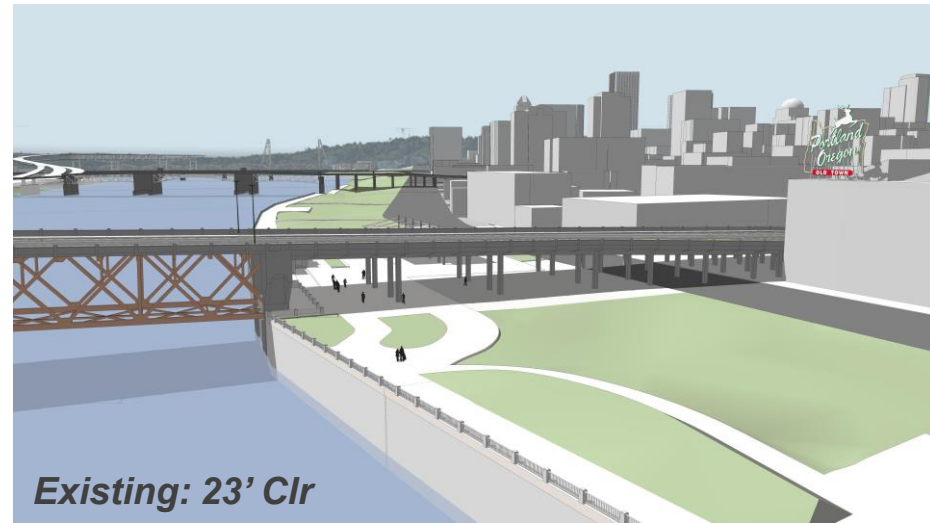
Range of Bridge Types

Waterfront Park: “Shorter” Girder Option



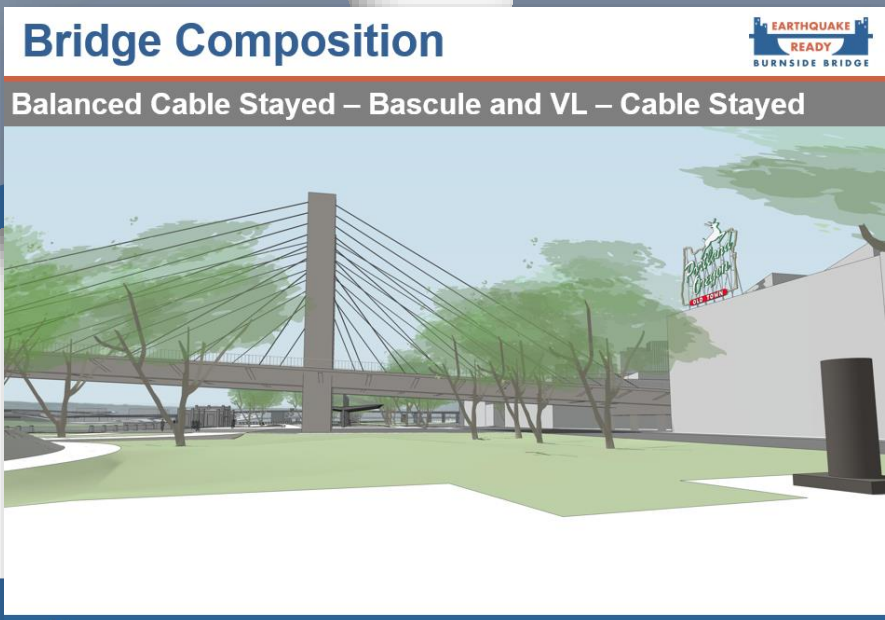
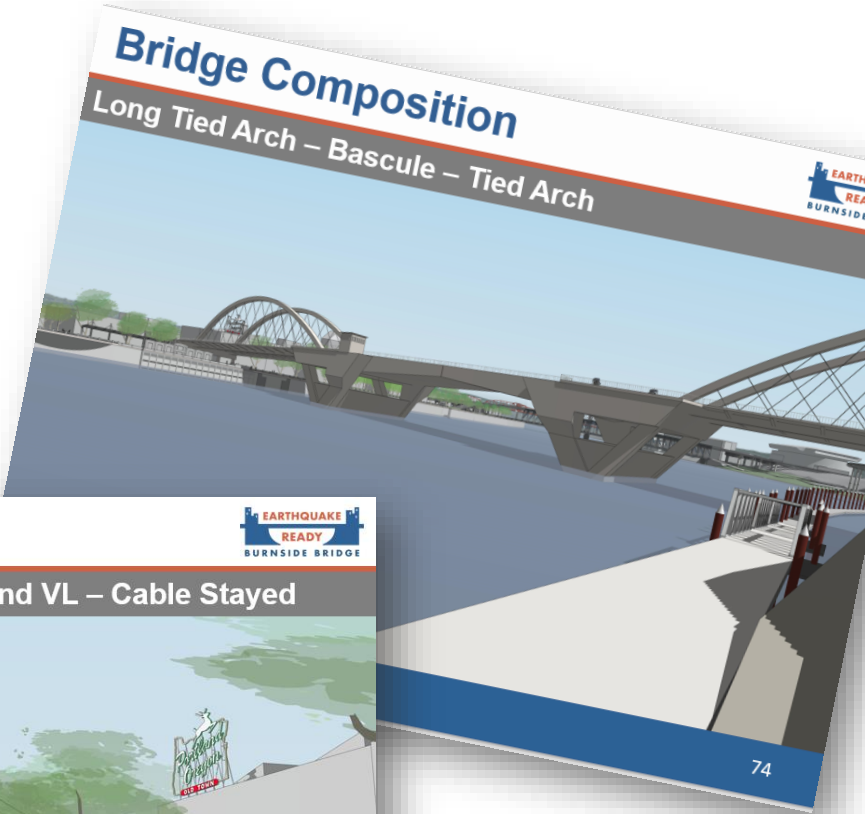
Range of Bridge Types

Waterfront Park: Range of Options



Range of Bridge Types

Urban Design & Aesthetics Working Group – Input on Range of Bridge Types



Range of Bridge Types

Long Span

Tied Arch



Truss



Cable Stayed / Extradosed



Girder (applicable to west approach only)



Range of Bridge Types

Movable Span

Lift



Bascule





Discussion / Recommendation



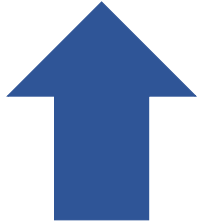


**Is this the right range of bridge types
to move forward?**

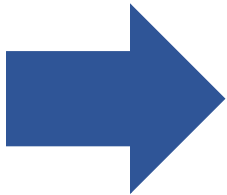


CTF Recommendation

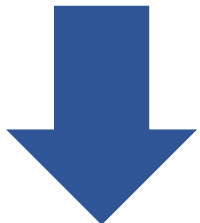
Voting Procedure



Thumb Up = Support Recommendation



Middle Thumb = I Can Live With Recommendation



Thumb Down = Do Not Support Recommendation





Community Outreach

January/February 2021





Objective: Gather input on range of bridge types and evaluation topics

Key Activities:

- Virtual Briefings
- Online Open House and Survey
- Videos
- Webinar
- E-newsletters, news releases and social media
- Diverse outreach through the Community Engagement Liaisons program





Objective: Share findings of the environmental analysis and allow for public review and comment on the DEIS

Key Activities:

- Briefings
- Online open house
- In-person hearing
- Voicemail
- E-newsletters, news releases and social media



Upcoming CTF Meetings

- **January 25:**
 - Refine criteria and measures
- **March 1:**
 - Review community input on range of bridge types and evaluation criteria topics
 - Weight criteria
- **March 22:**
 - Review and discuss evaluation screening results
- **April 5:**
 - Work towards bridge type recommendation
- **April 26:**
 - Make bridge type recommendation for community review
- **June 21:**
 - Review community feedback and make final recommendation to Policy Group





Open Discussion



Thank you!

