



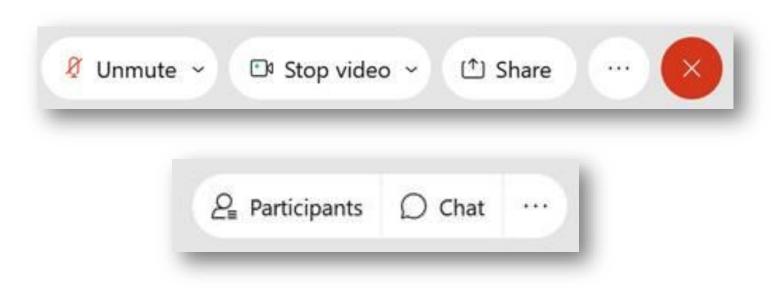
Urban Design and Aesthetics Working Group (UDAWG)
Meeting #9

Multnomah County
Department of Community Services
Transportation Division
September 29, 2021

Meeting Protocols



Using WebEx participation features



For WebEx tech support call or email Bri Dunn: 503.727.3972
Brianna.Dunn@hdrinc.com



Agenda



- Welcome, Introductions, and Housekeeping
- Preferred Alternative Refinements
 - Preferred Alternative Decision Process
 - West Approach Bridge Type
 - Movable Bridge Type
- 3. 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
- TBD, 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



Pre-meeting Information Packet



Content

Online UDAWG Library:

https://multco.us/earthquake-ready-burnside-bridge/urban-design-and-aesthetics-working-group

UDAWG Meeting #9 Materials:

- UDAWG Mtg #8 Notes
- UDAWG Mtg #9 Agenda





UDAWG Meetings



YOU MADE IT!

We are HERE

	UDAW Meeting Number and Date								
	#1	#2	#3	#4	#5	#6	#7	#8	#9
	(9/30)	(10/14)	(10/28)	(11/4)	(11/18)	(12/2)	(12/16)	(7/28)	(9/29)
Character of Portland and the			000000000000000000000000000000000000000						
Burnside Bridge									
Visual Design Principles							Δ		
Visual Design Guidelines							2		
Technical Design Criteria				***************************************		***************************************	,		
Menu of Bridge Types									
Range of Feasible Bridge Types							1		
Evaluation Criteria Topic(s)									
Evaluation Measures								3	
Input on CTF's Eval Criteria									
Input on CTF's Rec Bridge Type									

1

Today: West Approach and Movable Span Bridge Type Input





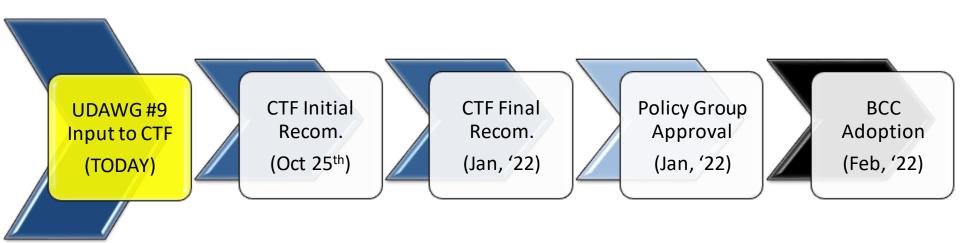


Preferred Alternative Refinements



Preferred Alt Decision Process

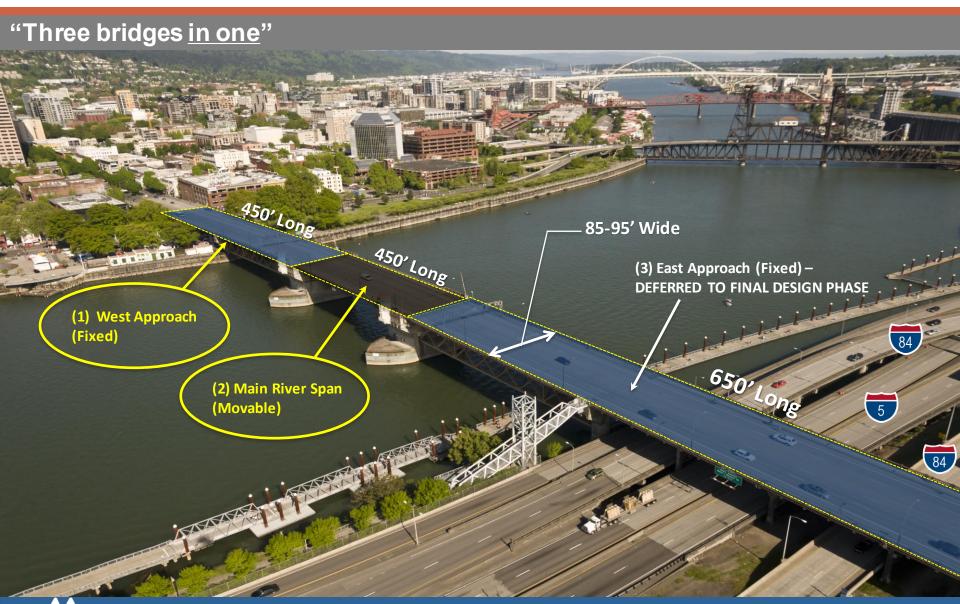






Preferred Alternative Refinements





Permitting Requirements



Why do the NEPA findings and future permitting influence Project decisions?

- NEPA requires that EISs demonstrate that the preferred alternative complies with federal environmental regulations
- Project Cost

 Community
 Preferences

 Permitting
 Requirements

 Project
 Purpose and
 Need
- National Historic Preservation Act mitigation for adverse effects
- Federal Transportation Act Section 4(f) (parks and historic resources)
 - must select the least harm alternative
- Endangered Species Act avoid jeopardy
- Clean Water Act (river and navigation channel impacts) Least Environmentally Damaging Practicable Alternative
- Rivers and Harbors Act (bridges and navigation) USCG approval





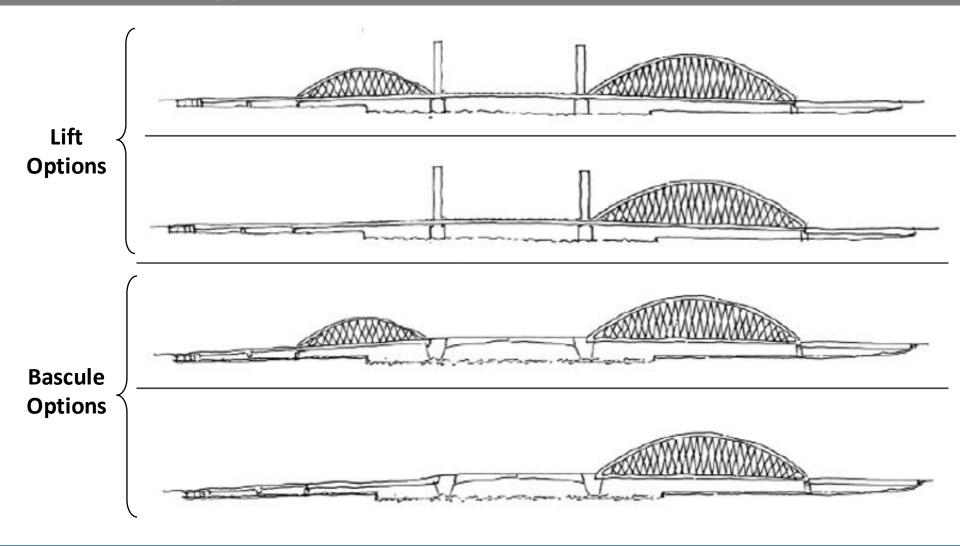




Range of Long Span Bridge Types



Tied Arch: West Approach Variations

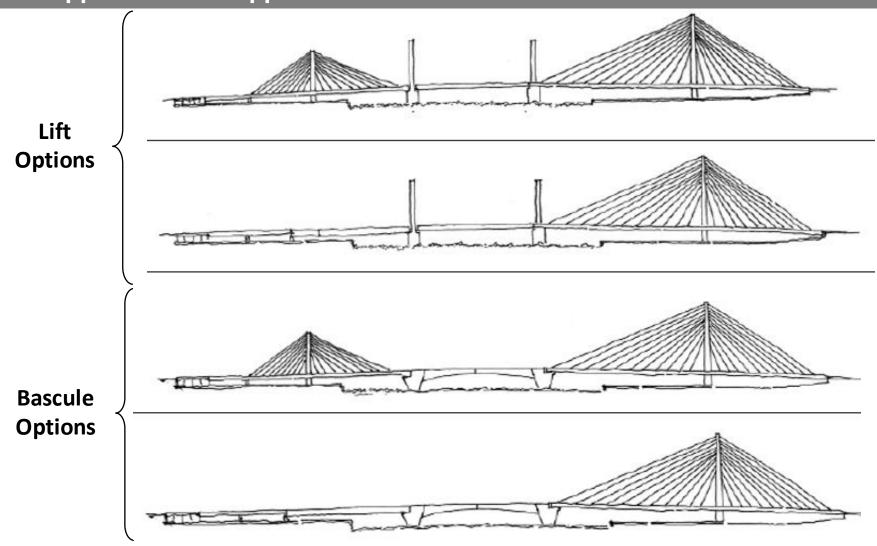




Range of Long Span Bridge Types



Cable Supported: West Approach Variations

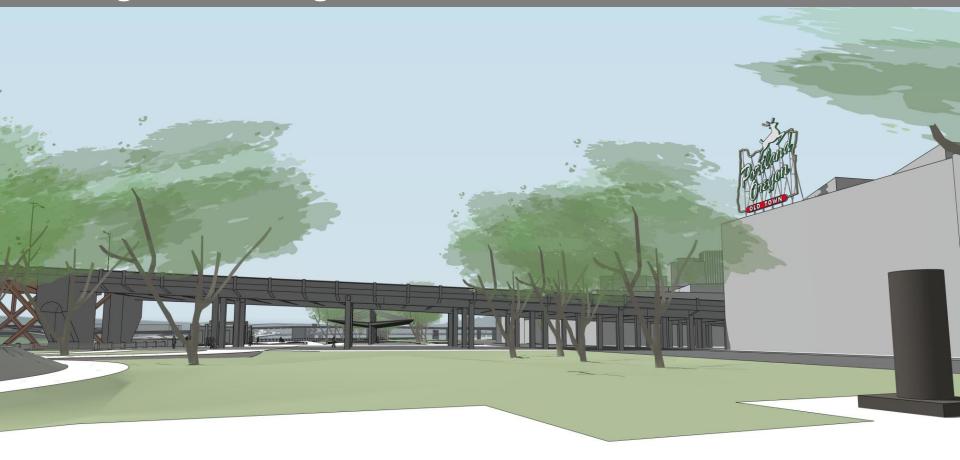




West Approach



Existing Girder Bridge





Long-span Approach Options in the DEIS



Replacement Long Span is the Recommended Preferred Alternative















Assessment



- National Parks Service (Section 106 / Section 4(f)):
 - Above deck elements create an Adverse Effect on the Skidmore / Old Town Historic District that is avoided with a girder concept
- Historic Landmarks Commission (DAR):
 - Due to visual impacts to historic districts, Girderstyled west approach option best meets zoning code and historic guidelines
 - Preference for "observable asymmetry" due to distinct differences in urban fabric on west and east sides





Design Advice Request

SUMMARY MEMO

Date: March 31, 2021

: Heather Catron, HDR

Megan Neill, Multnomah County

From: Hillary Adam, Design Review 503-823-8953 | hillary.adam@portlandoregon.gov

te: EA 21-007324 DA – Earthquake Ready Burnside Bridge – Bridge Type Selection (HLC) EA 21-007685 DA – Earthquake Ready Burnside Bridge – Bridge Type Selection (DC) Joint Design Advice Request Commission Summary Memo – March 4, 2021

Thank you for taking advantage of the opportunity to hold a Design Advice Request regarding your project. I hope you find It informative and valuable as you continue with your project development. Following, is a summary of the comments provided by the Historic Landmarks Commission and the Design Commission at the March 4, 2021 Design Advice Request. This summary was generated from notes taken at the public meeting and a subsequent review of the public meeting ecordings. To review those recordings, please visit: https://delies.portlandorgon.gov/Record/14393212.

These Historic Landmarks Commission and Design Commission comments are intended to guide you in further design exploration of your project. These comments may also inform City staff when giving guidance over the course of future related land use reviews. It should be understood that these comments address the project as presented on March 4, 2021. As the project design evolves, the comments, too, may evolve or may no longer be pertinent.

Design Advice Requests are not intended to substitute for other Code-required land use or legislative procedures. Please keep in mind that the formal Type 3 and Type 4 land use review process (which includes a land use review application, public notification and a Final Decision) must be followed once the Design Advice Request meetings are complete, if formal approval for specific elements of your project is desired.

Please continue to coordinate with me as you prepare your future Land Use Review Applications.

Encl: Summary Memo

Cc: Historic Landmarks Commission
Design Commission
Respondents

FROM CONCEPT TO CONSTRUCTION





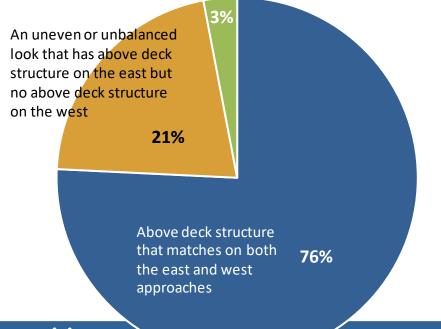
Assessment

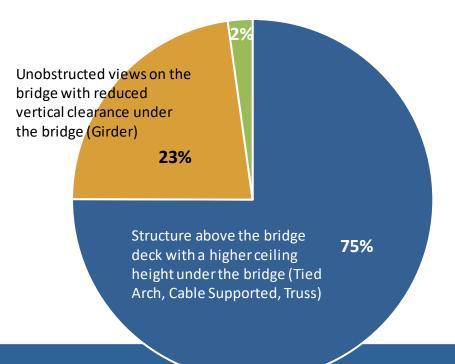
- Cost:
 - Modified girder option is \$20-40M less expensive than any above deck option

Community Preferences (1,676 responses from early 2021):

QUESTION: For the WEST APPROACH SPAN, if you had to choose, which bridge type features

would you prefer?









County Recommendation: West Approach Girder for all Bridge Compositions







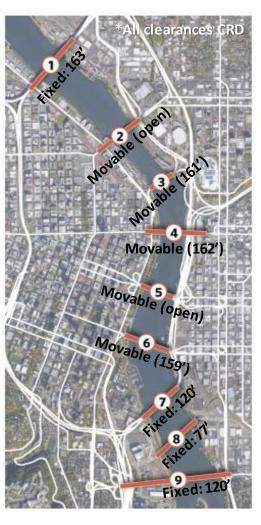




Existing Willamette River Bridges



Downtown Portland Area









Burnside Bridge



7 Marquam Bridge



2 Broadway Bridge



Morrison Bridge



8 Tilikum Crossing



3 Steel Bridge



6 Hawthorne Bridge



Ross Island Bridge



Range of Bridge Types



Movable Span

Lift



Bascule





READY BURNSIDE BRIDGE

Assessment



- National Parks Service (Section 106 / Section 4(f)):
 - NPS recommends the bascule option to complement the Skidmore / Old Town Historic District
- Historic Landmarks Commission (DAR):
 - Bascule movable bridge option minimizes impacts to views
 - Preference for "observable asymmetry" due to distinct differences in urban fabric on west and east sides
 - East Approach Bridge Type Input:
 - Cable Supported option offers similar scale and visual cohesion to east side building heights
 - Cable Supported option offers more transparency





Design Advice Request

SUMMARY MEMO

ate: March 31, 2021

Megan Neill, Multnomah County

From: Hillary Adam, Design Review 503-823-8953 | hillary.adam@portlandoregon.gov

Re: EA 21-007324 DA – Earthquake Ready Burnside Bridge – Bridge Type Selection (HLC) EA 21-007685 DA – Earthquake Ready Burnside Bridge – Bridge Type Selection (DC) Joint Design Advice Request Commission Summary Memo – March 4, 2021

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Encl: Summary Memo

> Cc: Historic Landmarks Commission Design Commission Respondents

> > FROM CONCEPT TO CONSTRUCTION

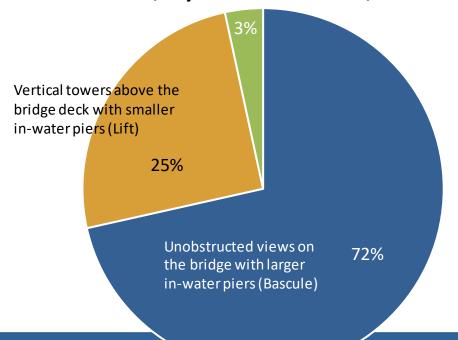




Assessment

- Cost:
 - Bascule option is \$25-35M less expensive than the Lift Option
- Community Preferences (1,676 responses from early 2021):

QUESTION: For the MOVABLE SPAN, if you had to choose, what would you prefer?





Type Selection Evaluation Criteria



Key Words and Phrases

1. Human Experience & Bridge Surroundings

- Clear views in all directions
- Bridge surface for public events
- Intrinsic gateway and a sense of arrival to and from bridge
- Enhanced on-bridge experience
- Enhanced in-water uses
- Connectivity with river from under / around the bridge

- Complements & responds to the character of the Old Town / Chinatown and Downtown neighborhoods
- Complements & responds to the character of Kerns and Buckman neighborhoods and Central Eastside Industrial District
- Complements and responds to the character of the existing Willamette River bridges, while being distinctive in its own right





Type Selection Evaluation Criteria



Key Words and Phrases

2. Overall Look and Feel of the Bridge

- Creates a look of balance, unity, and flow from multiple viewpoints
- Balance the desire for a minimized visual mass, especially in the river, while providing seismic stability and reliability
- Capture elements of the existing historic bridge

- Reflect the best practices in modern technologies, engineering, and architecture
- An identifiable beacon of safety, a landmark, and a destination within the city during the day and after dark
- Enhances the natural environment





Type Selection Evaluation Criteria



Key Words and Phrases

3. Cost and Construction Impacts to Users

- Minimize Total Project cost to plan, design, and construct the bridge
- Minimize long-term costs and support future needs after construction
- Minimize impacts to the traveling public and surrounding property owners / tenants during construction
- Minimize impacts to adjacent properties during construction









Movable Bridge Supporting Info: Basic Form Bridge Views





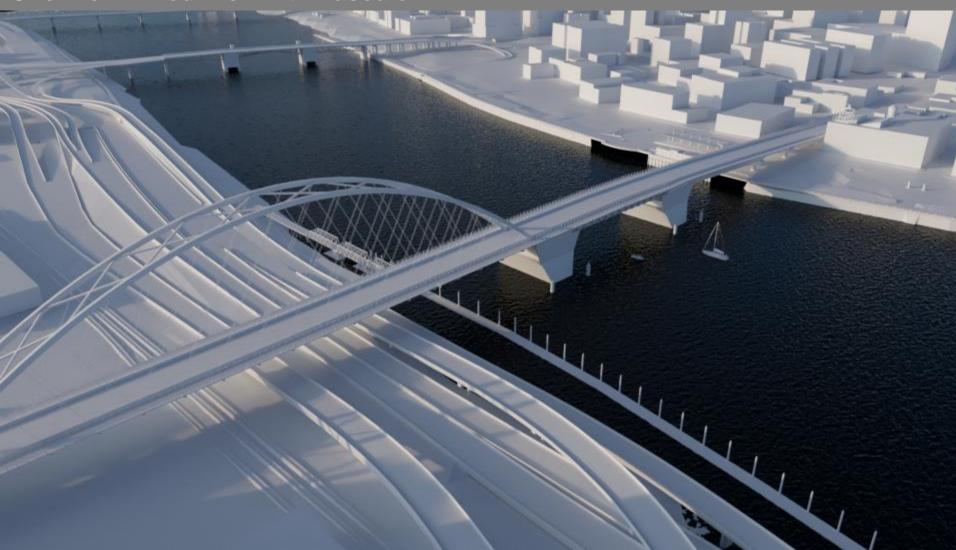
Overview – Existing Condition







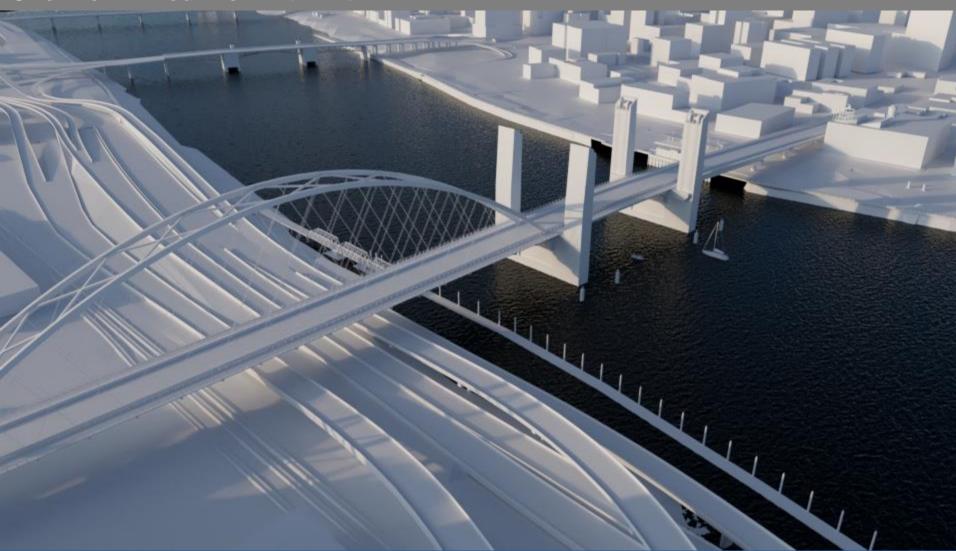
Overview – Tied Arch with Bascule







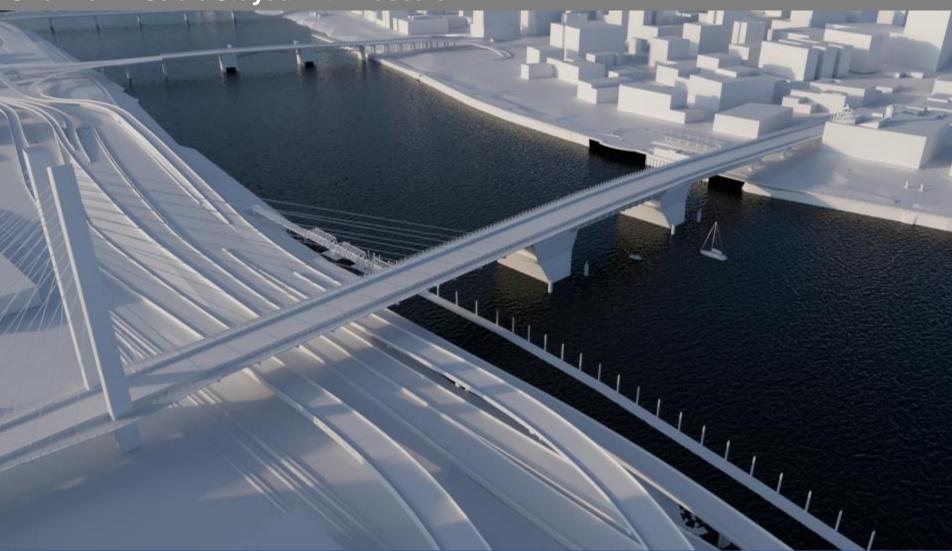
Overview – Tied Arch with Lift







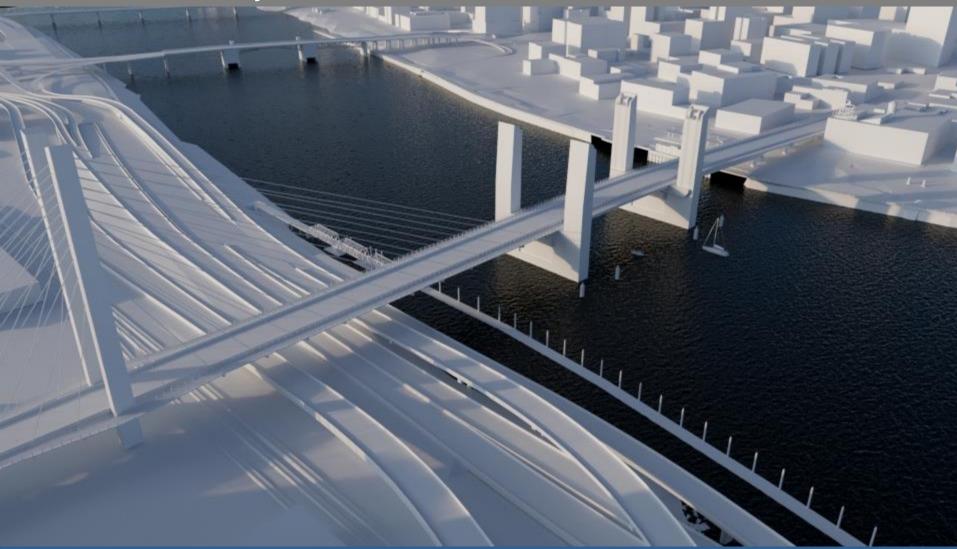
Overview - Cable Stayed with Bascule







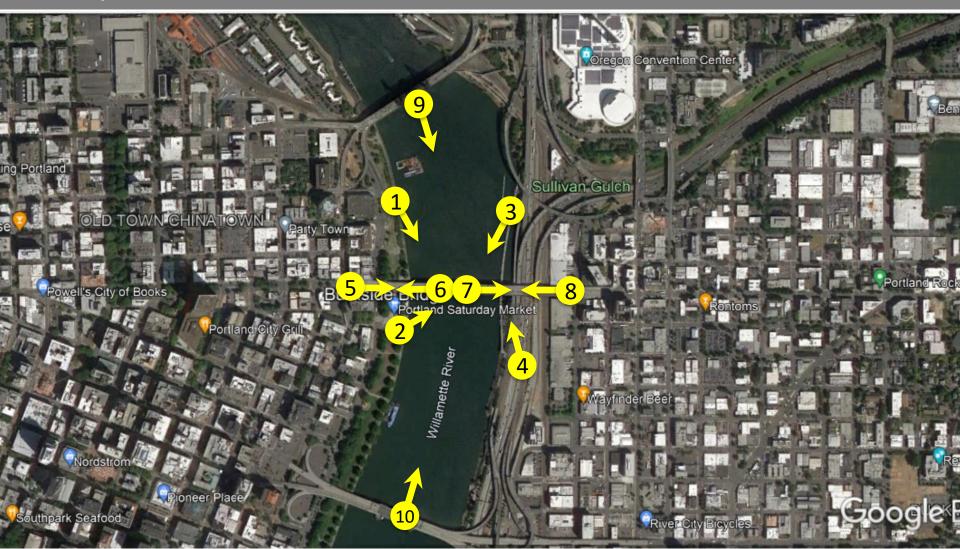
Overview - Cable Stayed with Lift







Select Key Views





Bridge Views: From Waterfront Park



Existing Views

View 1:

SE from Waterfront Park (Located north of bridge)









View 1: Looking SW from Waterfront Park





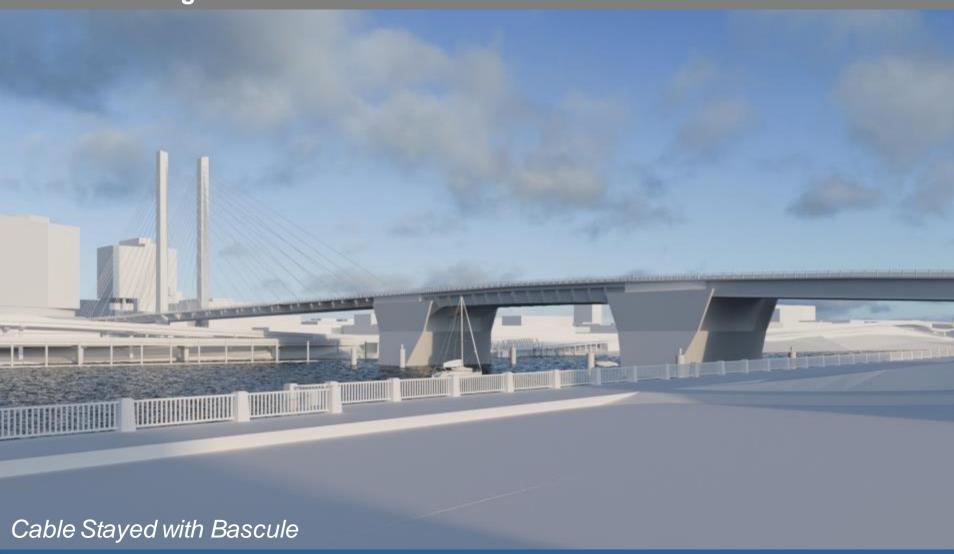


View 1: Looking SW from Waterfront Park

















Bridge Views: From Waterfront Park



Existing Views

View 2: NE from Waterfront Park (Located south of bridge)































Bridge Views



Existing Views

View 3: SW from Eastbank Esplanade (Located north of bridge)































Bridge Views



Existing Views

View 4: NE from I-5 (Located south of bridge)





























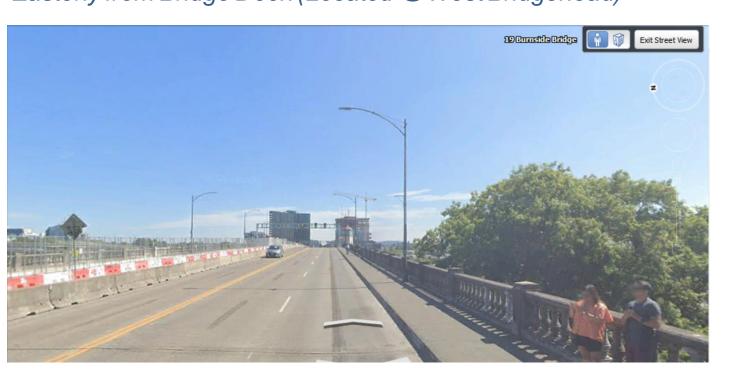


Bridge Views



Existing Views

View 5: Easterly from Bridge Deck (Located @ West Bridgehead)































Bridge Views



Existing Views

View 6:

Westerly from Bridge Deck (Located @ midspan)









View 6: Looking West from Burnside Bridge Tied Arch with Bascule





View 6: Looking West from Burnside Bridge

Tied Arch with Lift





View 6: Looking West from Burnside Bridge Cable Stayed with Bascule









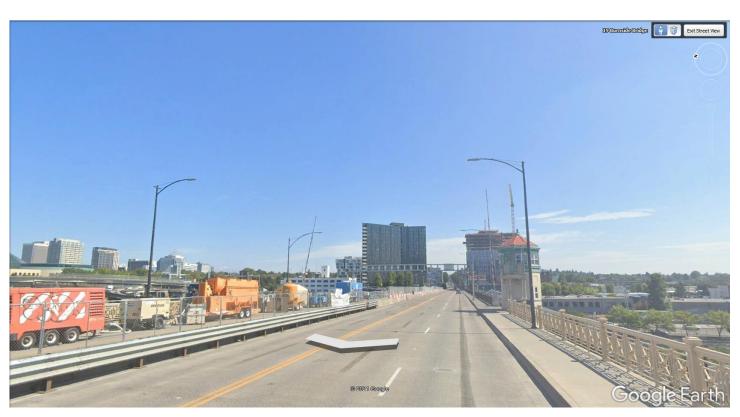
Bridge Views



Existing Views

View 7:

Easterly from Bridge Deck (Located @ midspan)









View 7: Looking East from Burnside Bridge Midspan













View 7: Looking East from Burnside Bridge Midspan







View 7: Looking East from Burnside Bridge Midspan





Bridge Views



Existing Views

View 8:

Westerly from Bridge Deck (Located @ East Bridgehead)



















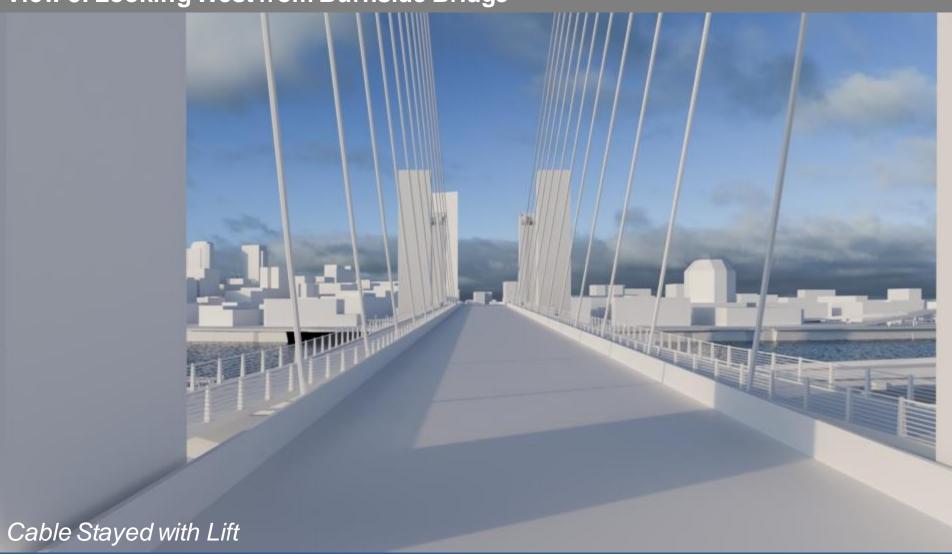








View 8: Looking West from Burnside Bridge





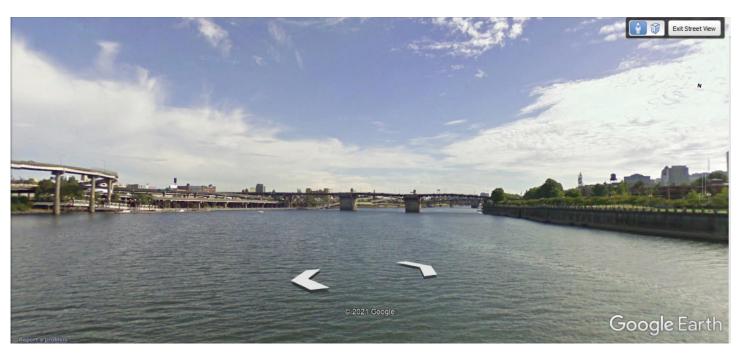
Bridge Views



Existing Views

View 9:

Southerly from Steel Bridge (From lower deck level)































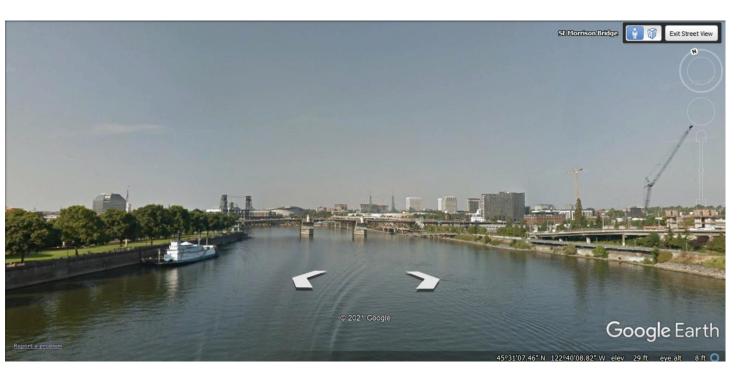
Bridge Views



Existing Views

View 10:

Northerly from Morrison Bridge (From deck level)































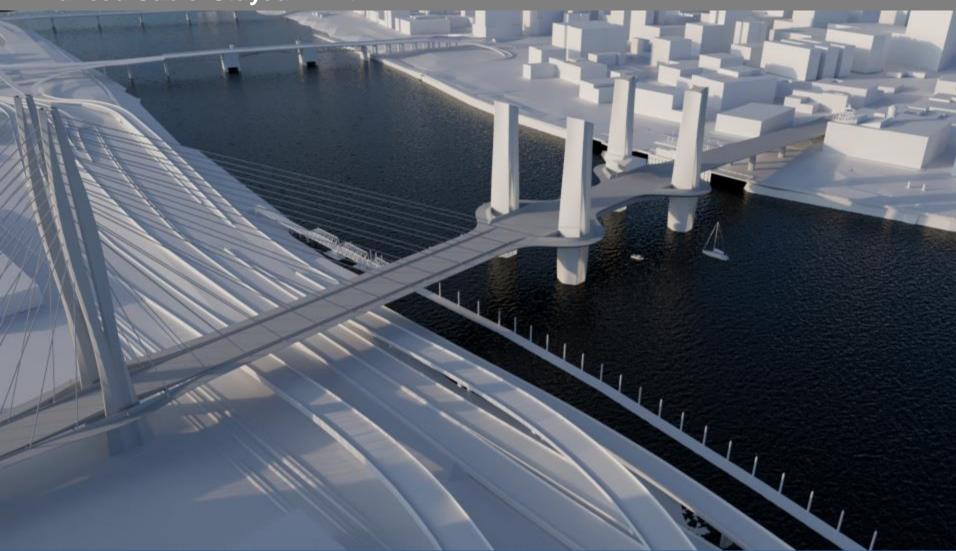




Enhanced Form Bridge Views: Cable Stayed + Lift

























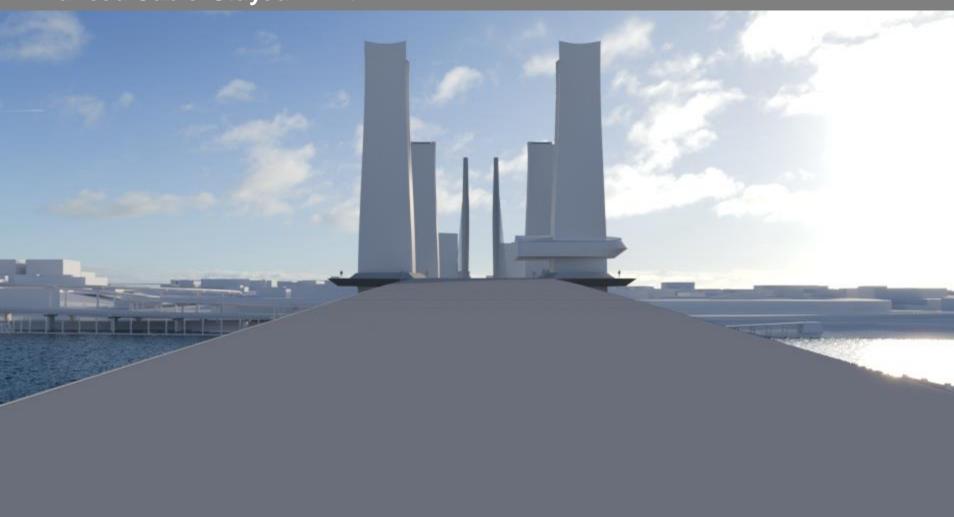






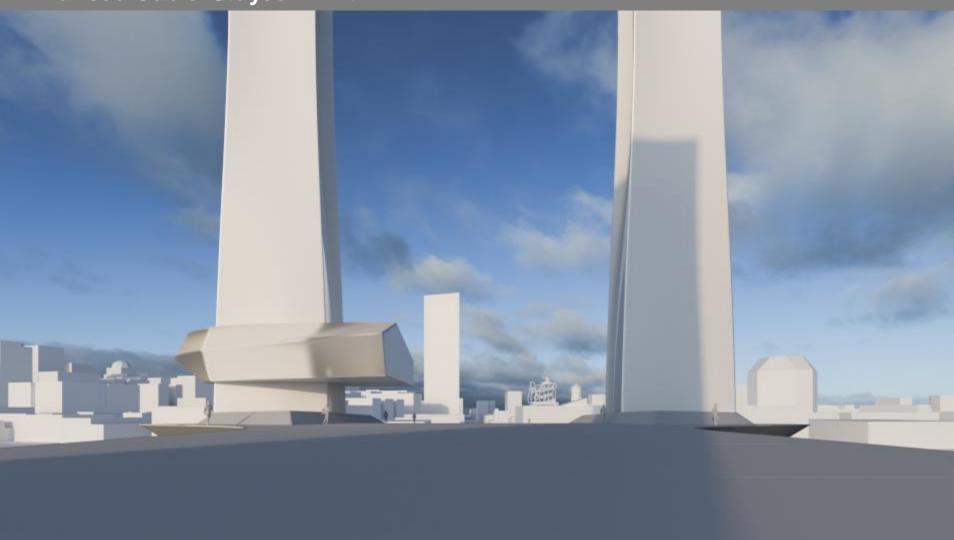












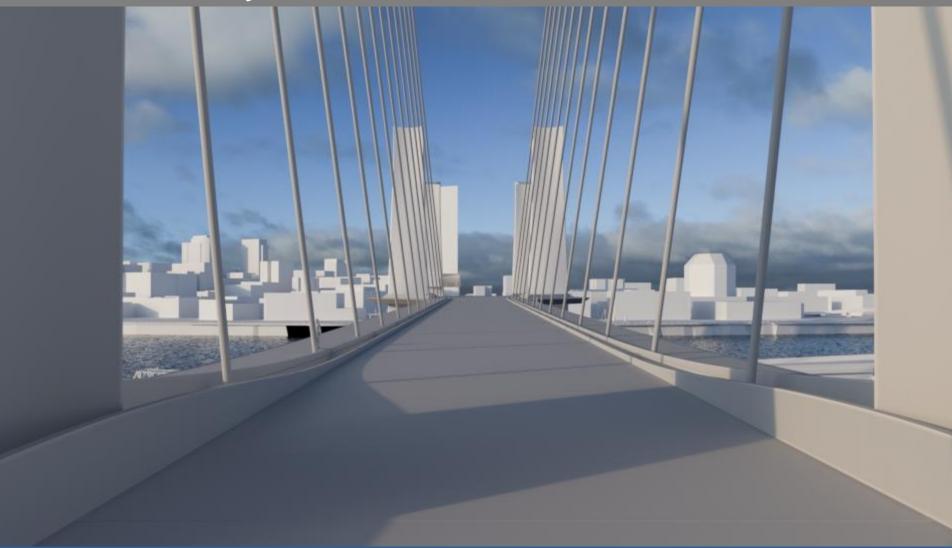


























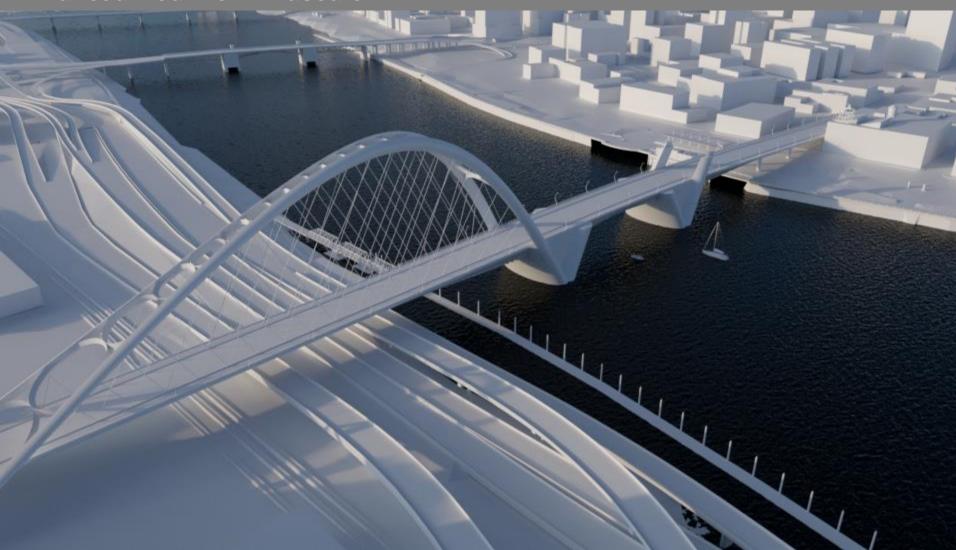




Enhanced Form Bridge Views: *Tied Arch* + *Bascule*

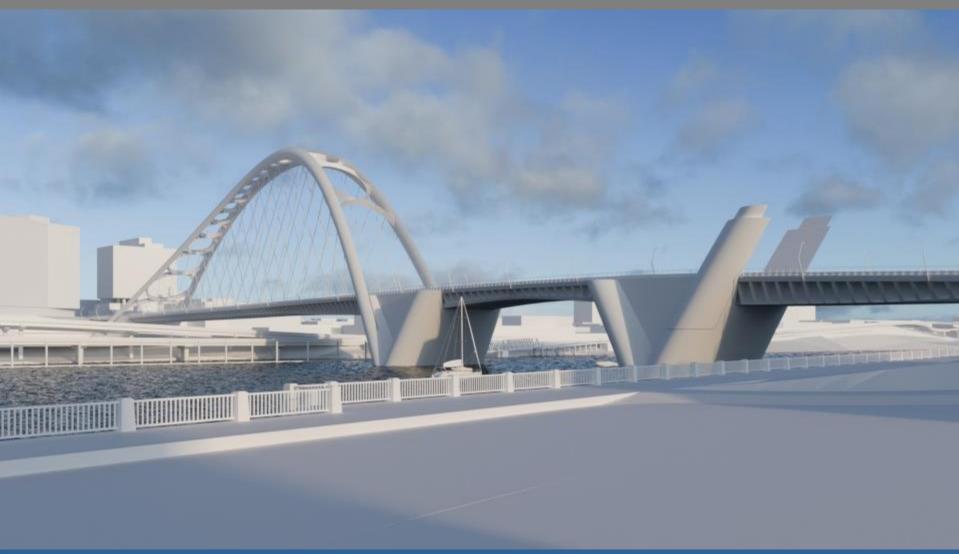






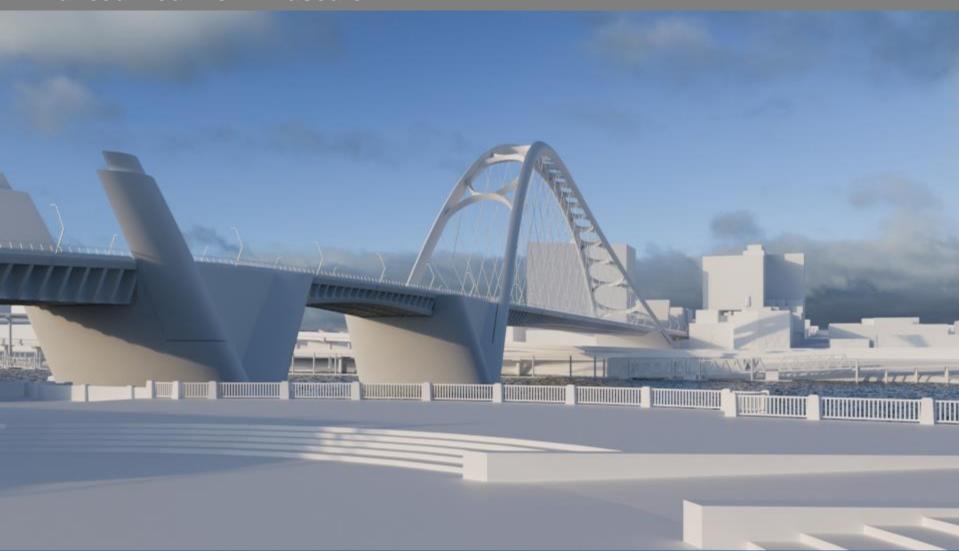


















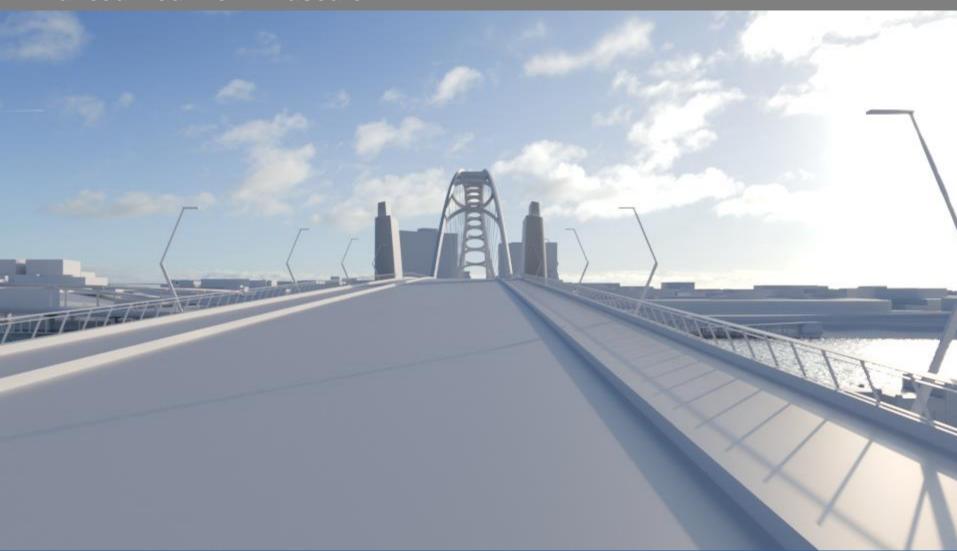






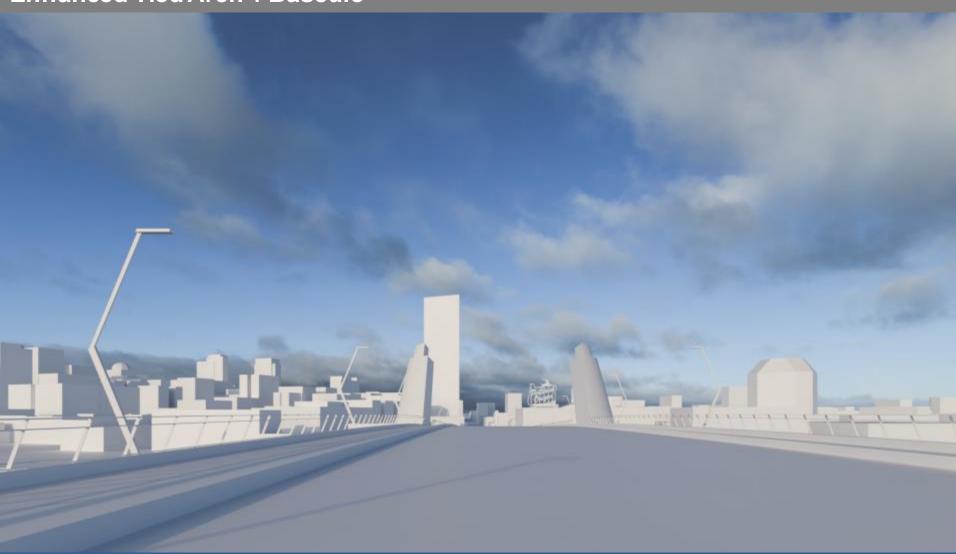






































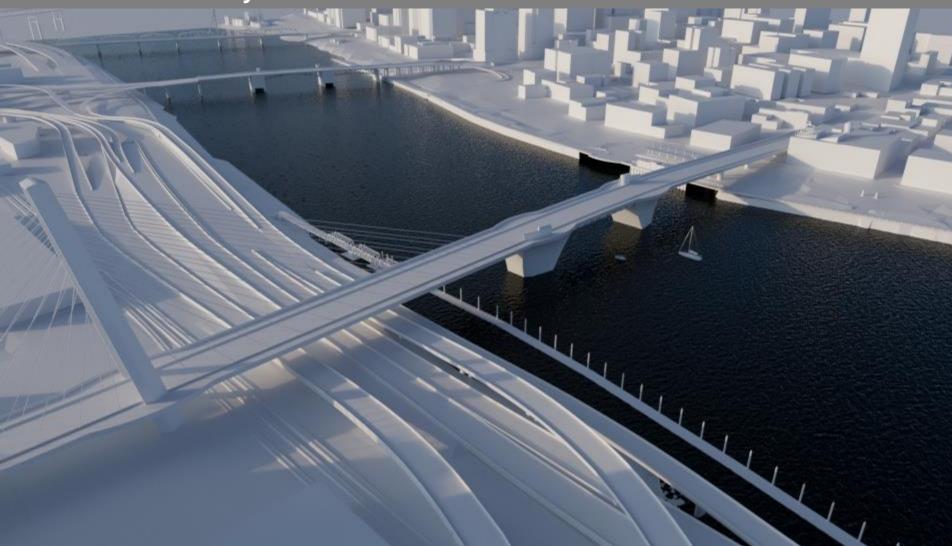




Bridge Views Enhanced Form: Cable Stayed + Bascule

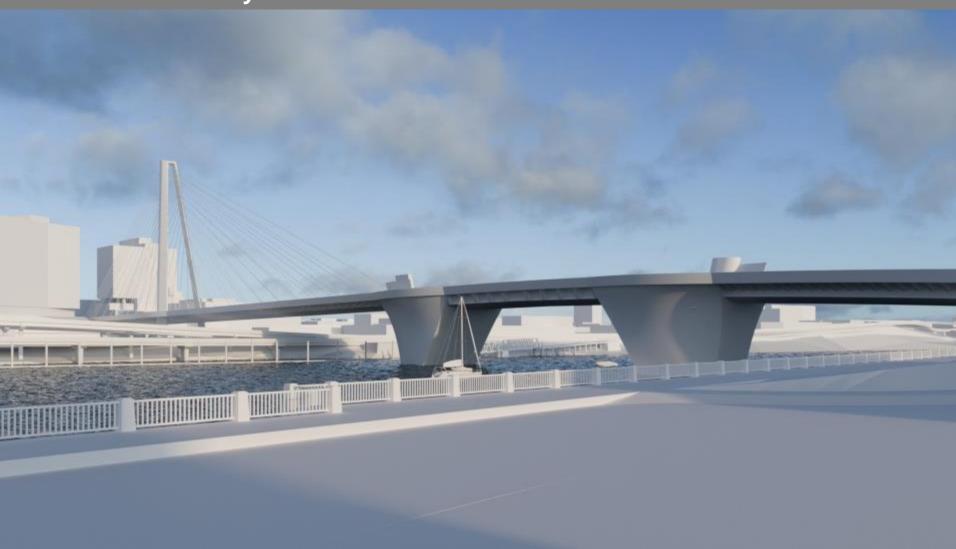
























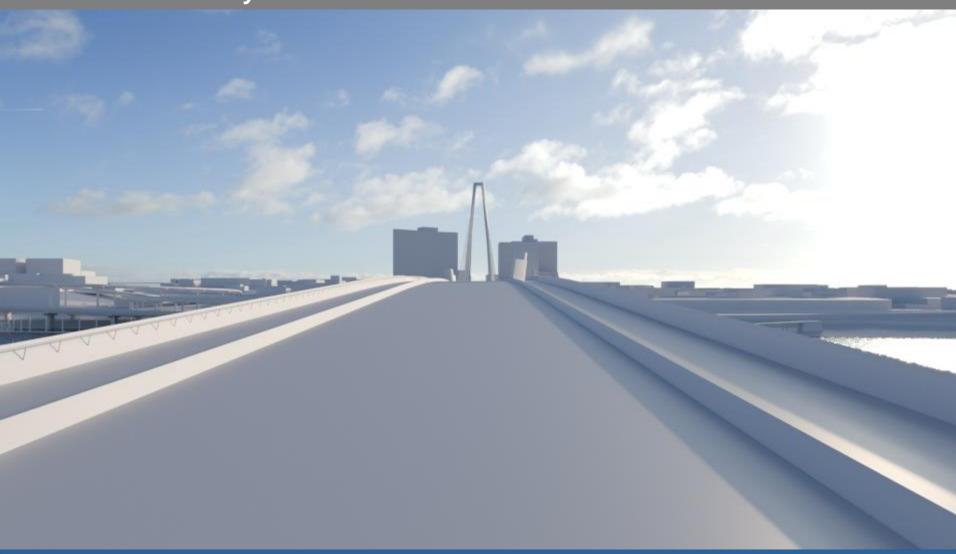










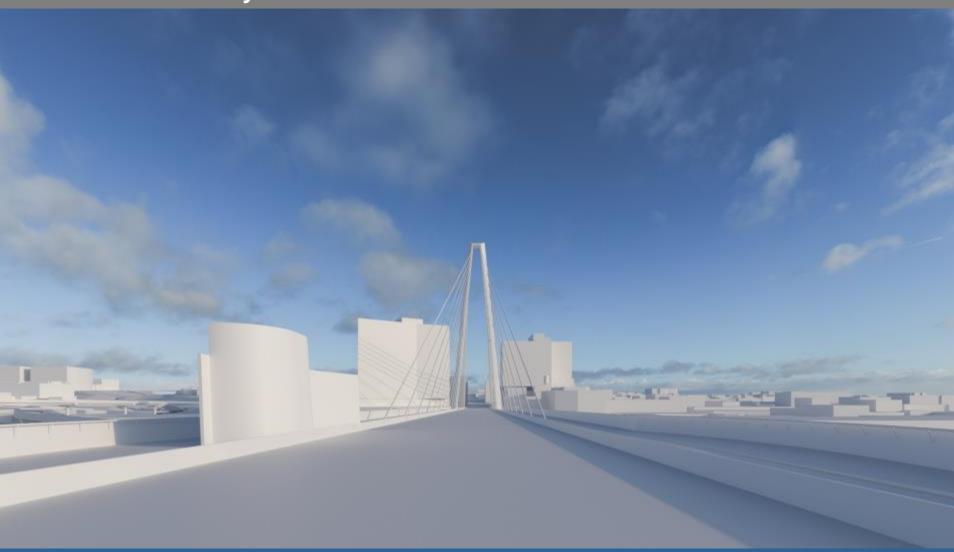






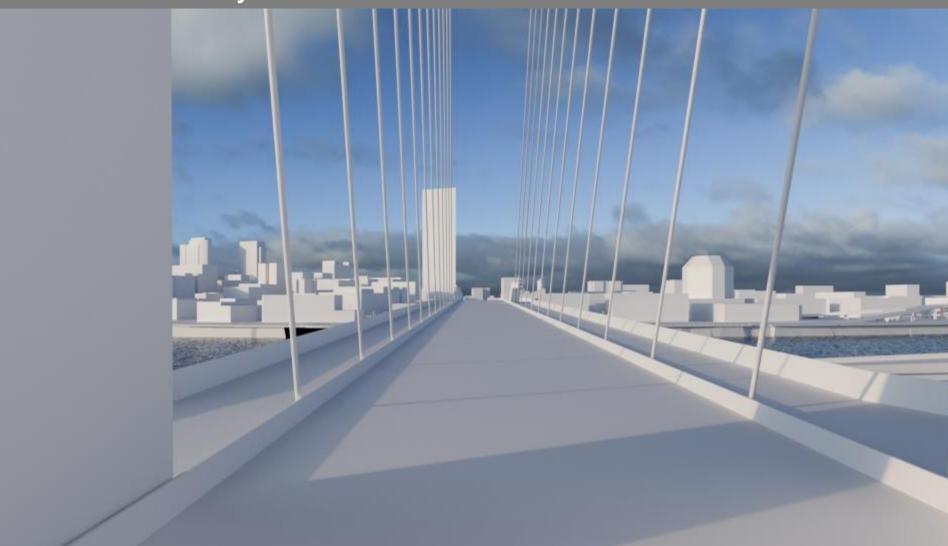






























Discussion





What movable bridge type input do you have for the CTF?











Next Steps



Mid-2022: Next UDAWG Meeting possibly the last one for the NEPA Phase



Closing Remarks



Thank you!

