



# Consulting Parties Advisory Group

Meeting #7 (Optional) – June 27, 2025

# Welcome



- Welcome and Introductions
  - Section 106 Signatories (FHWA, SHPO, ODOT, Multnomah County, ACHP)
  - Tribal Partners
  - Agencies (NPS)
  - Organizations & Individuals
- Consulting Parties Advisory Group Purpose
  - To provide input on the implementation of the mitigation to resolve the adverse effect to the Burnside Bridge as described in Stipulation II of the Section 106 Programmatic Agreement.



# Topics for Meeting #7



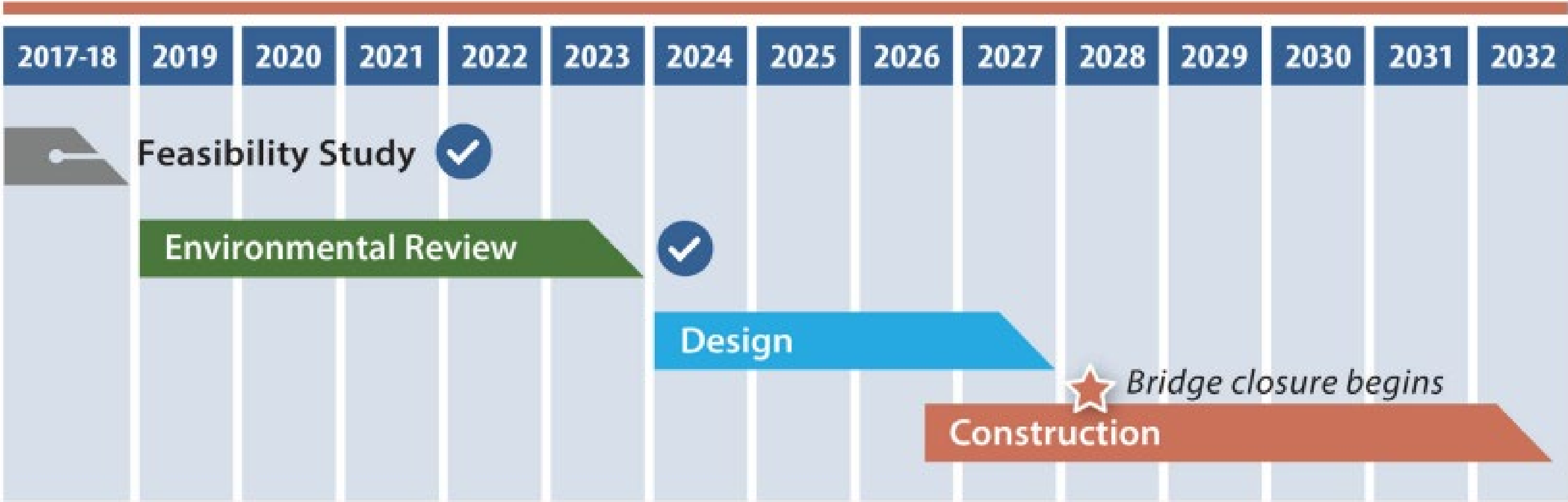
- Project Updates
- Bridge Lighting Overview Presentation
- Next Steps



# Project Updates



★ We are here  
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# Bridge Lighting Presentation



# Burnside Bridge Aesthetic Lighting

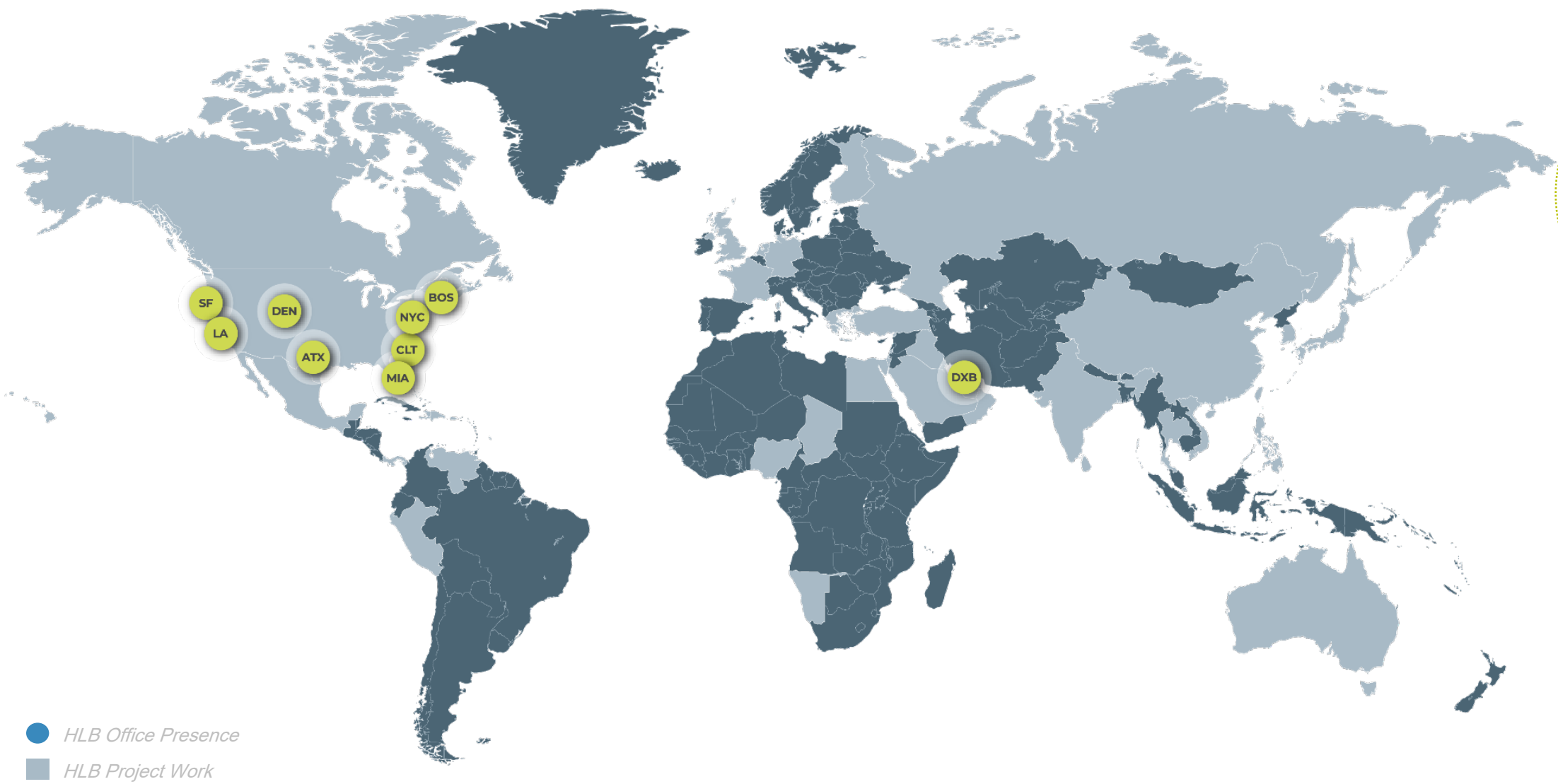


**HLB**

HLB Lighting Design



# HLB at a glance



# Bridge Lighting Needs



Samuel De Champlain Bridge, Montreal, QC



# Why Light a Bridge?

*Bridges elevate and connect communities in both a physical and metaphorical sense. They serve the very practical purpose of connecting two places together, but they also serve the higher purposes of connecting people and families to each other, of elevating our civic spaces, and becoming symbols of their community's hopes and aspirations. They represent how a community sees itself and what of itself they want to project to the world.*

*It is in the service of these higher, metaphorical goals for a bridge that the aesthetic lighting of the structure comes into play, for it is through the careful application of light that the structure obtains a nighttime persona that can make it a truly unique symbol of its community.*

St. Croix River Crossing, Stillwater, MN

HDR



# Bridge Lighting Needs

## Functional

- Roadway
- Pedestrian & Cycling Paths
- Navigation
- Security



St. Croix River Crossing, Stillwater, MN

HDR



# Bridge Lighting Needs

## Aesthetics

- Postcard Image
- Community Engagement
- Civic Pride

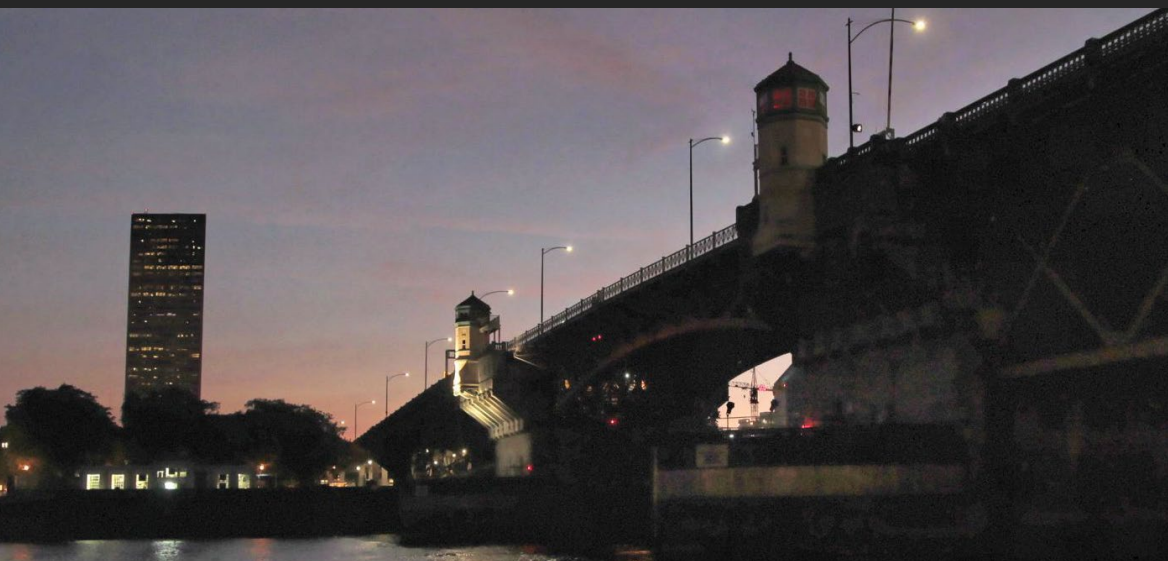


Veterans' Glass City Skyway Bridge

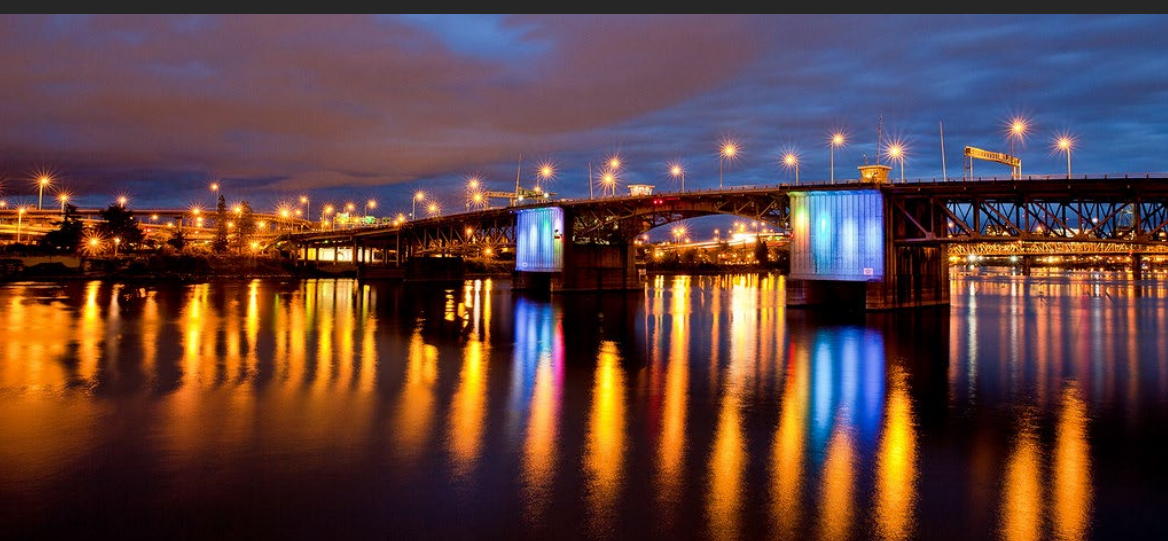




Fremont Bridge



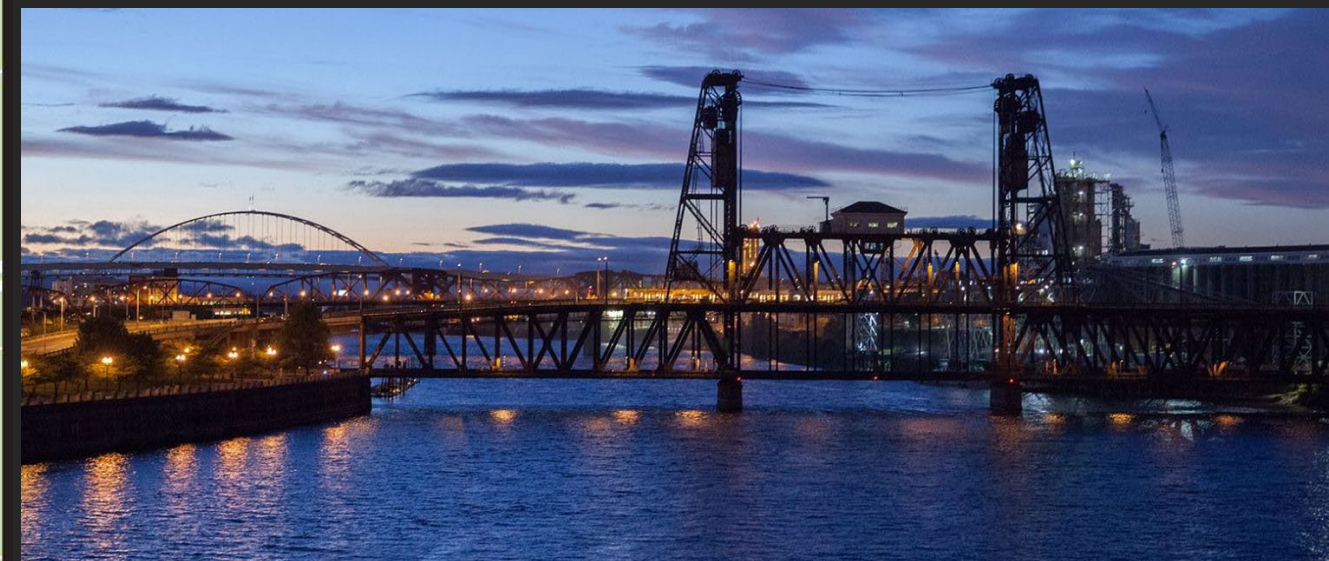
Burnside Bridge



Morrison Bridge



Broadway Bridge

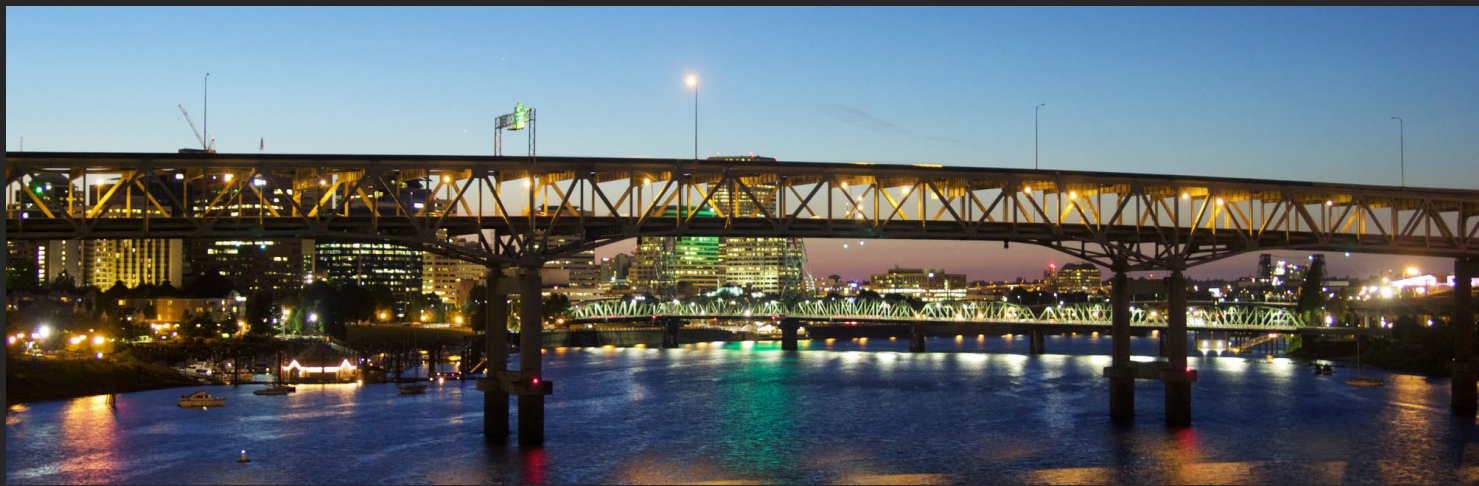


Steel Bridge



Hawthorne Bridge





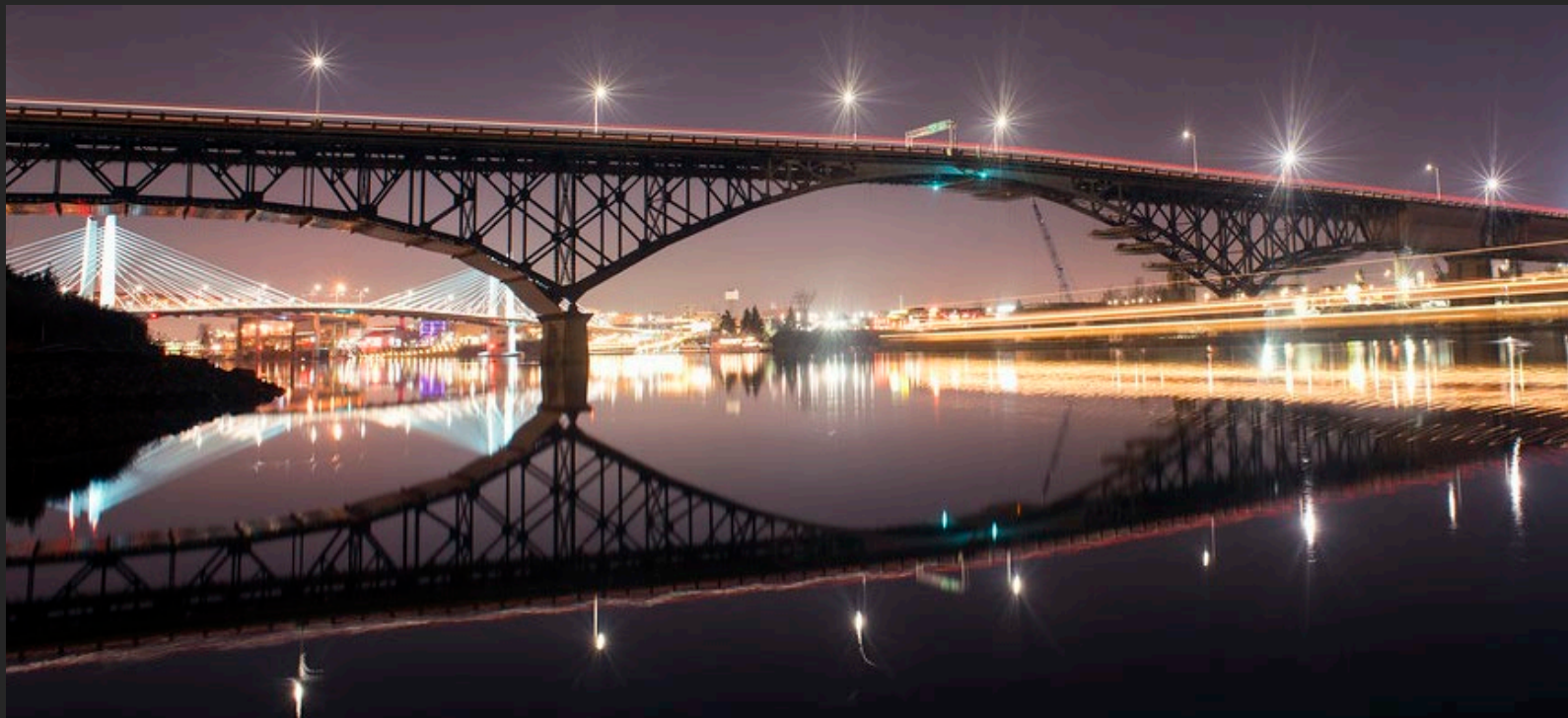
Marquam Bridge



Sellwood Bridge



Tilikum Crossing



Ross Island





# Bridge Lighting Canvas



## Concept Development

- Placemaking
- Community engagement
- Unique features of the structure
- Viewsheds





# Bridge Lighting Canvas

## Guiding Principles

- 1 Bridge Visual Coherence
  - A. Resolve scale between fixed and movable spans
- 2 Bridge Form and Style
  - A. Be a Portland Skyline Landmark
  - B. Distinctive Lighting while adhering to Dark Sky best practices
- 3 Bridge Aspirations & Design Flexibility
  - A. Be an identifiable beacon of safety
  - B. Minimize effects on natural resources and wildlife
  - C. Express Portland values





# Bridge Lighting Canvas

## Environmental Considerations

### 4 Minimize Light Pollution & Sky Glow

- A. Luminaires are aimed at the structure, with careful consideration of the beam angle cut -off so light is not directly aimed at the sky or at the river.
- B. Uplights at the tower are located under the portal and have narrow beams to avoid spilling light into the environment.
- C. All floodlights are equipped with visors to prevent glare from direct view of the luminous lens

### 5 Minimize Impacts on Birds & Aquatic Species

- A. Cables are intentionally not illuminated to avoid spilling light into the environment.
- B. The white light LED chip in the RGBW luminaires are specified with a warmer color temperature of 3000K



AESTHETIC LIGHTING

# Burnside Bridge Concepts





## INTERNAL GLOW



## LINES OF LIGHT





# Internal Glow - Tower (Floodlights)



- 2A Be a Portland skyline landmark
- 2B Distinctive lighting while adhering to dark sky best practices
- 3A Be an identifiable beacon of safety
- 4B Uplights are only located under the structures to avoid spilling light into the environment.
- 5A Cables are intentionally not illuminated to avoid lighting up into the sky





# Internal Glow - Piers (Lit Internal Structure + Uplit Perforated Metal)



1A Resolve scale between fixed and movable spans

2A Be a Portland skyline landmark

2B Distinctive lighting while adhering to dark sky best practices

3B Minimize effects on natural resources and wildlife

4B Uplights are only located under the structures to avoid spilling light into the environment.

5A Cables are intentionally not illuminated to avoid lighting up into the sky





# Internal Glow – Girder (Floodlights)



2B Distinctive lighting while adhering to dark sky best practices

3A Be an identifiable beacon of safety

4A Luminaires, with narrow beam optics, are aimed at the structure, not directly aimed at the sky or at the river.

4C All floodlights are equipped with visors to prevent glare from direct view.







# Bridge Lighting Scenes

## Lighting Scenes & Wildlife Impacts

- Dim luminaires to an appropriate level
- Schedule scenes to play at designated times and days
- Schedule luminaires to be dimmed at times to respond to wildlife needs.
- Updates to programming and calendar scheduling can be made post -commissioning to respond to wildlife needs.

# Lighting Scene - Precedent



- Base Look
- Bird Migration
- Saint-Jean Baptiste Day
- Canada Day

January							February							March							April						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1	1	2	3	4	5	6	7				1	2	3	4
5	6	7	8	9	10	11	2	3	4	5	6	7	8	8	9	10	11	12	13	14	5	6	7	8	9	10	11
12	13	14	15	16	17	18	9	10	11	12	13	14	15	15	16	17	18	19	20	21	12	13	14	15	16	17	18
19	20	21	22	23	24	25	16	17	18	19	20	21	22	22	23	24	25	26	27	28	19	20	21	22	23	24	25
26	27	28	29	30	31		23	24	25	26	27	28	29	29	30	31					26	27	28	29	30		

May							June							July							August						
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31																					30	31					

September							October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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27	28	29	30				25	26	27	28	29	30	31	29	30						27	28	29	30	31		



Base Look



Canada Day



Saint -Jean Baptiste Day



Bird Migration

Samuel De Champlain Bridge Lighting Scene Calendar

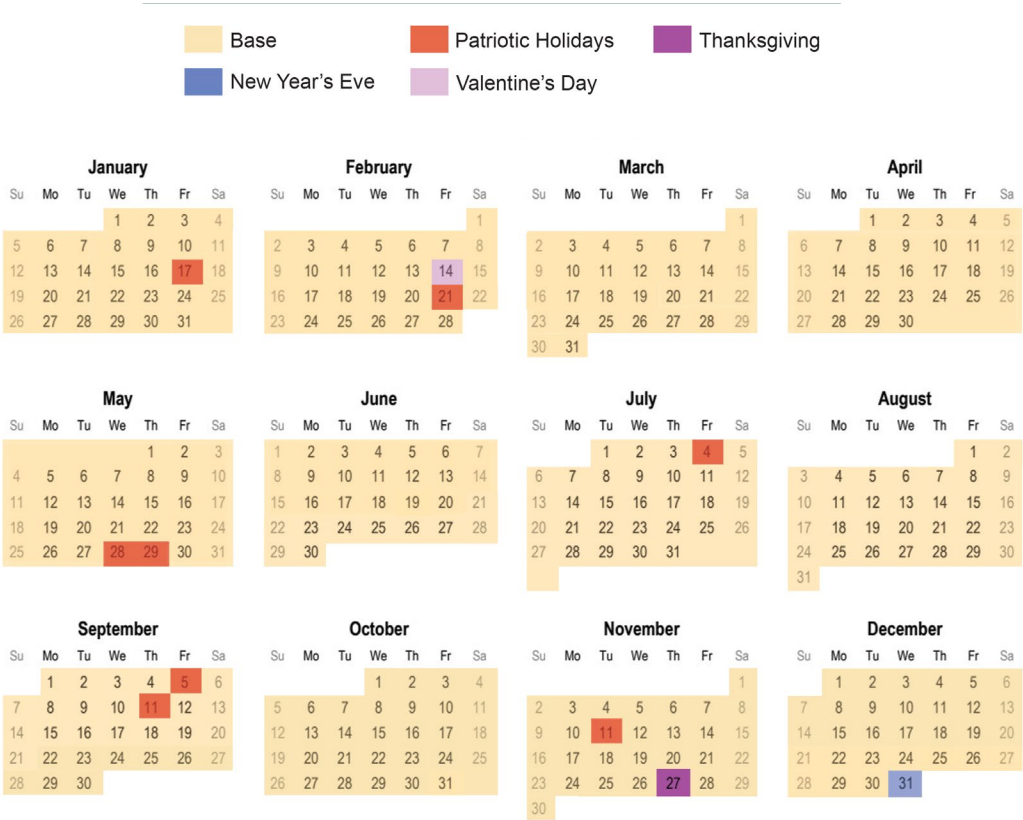




# Calendar Examples

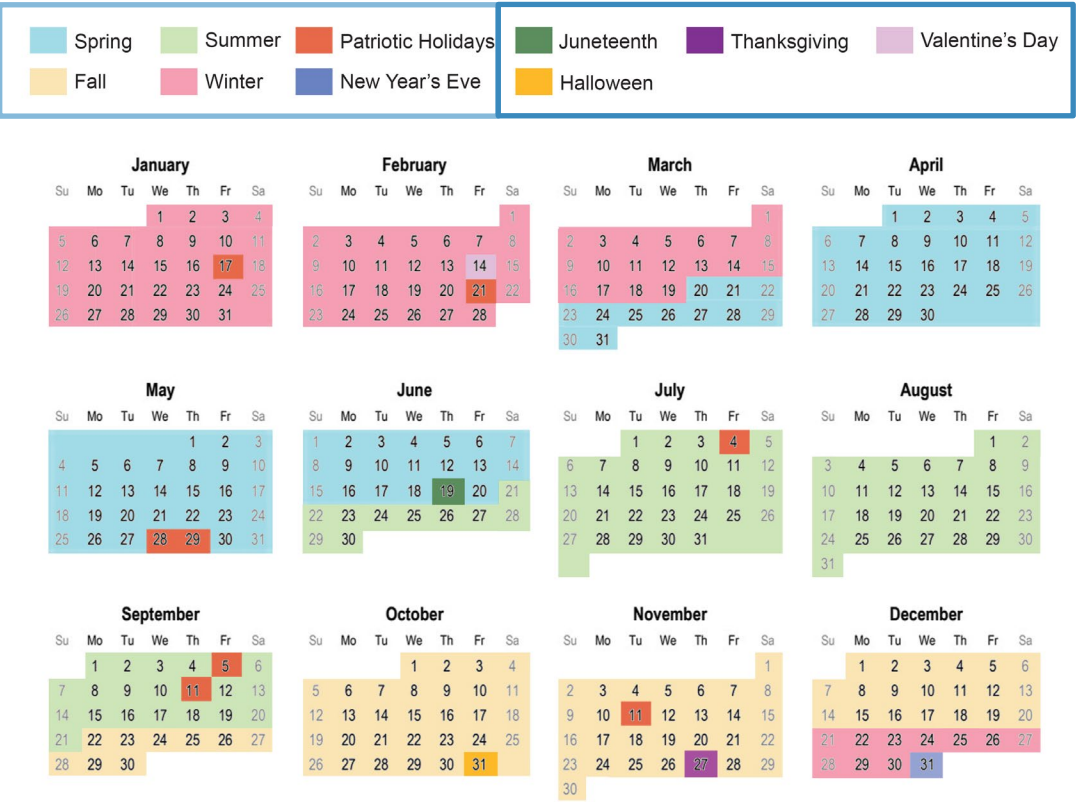


## Dynamic Scenes



## Holiday Based

## Dynamic Scenes

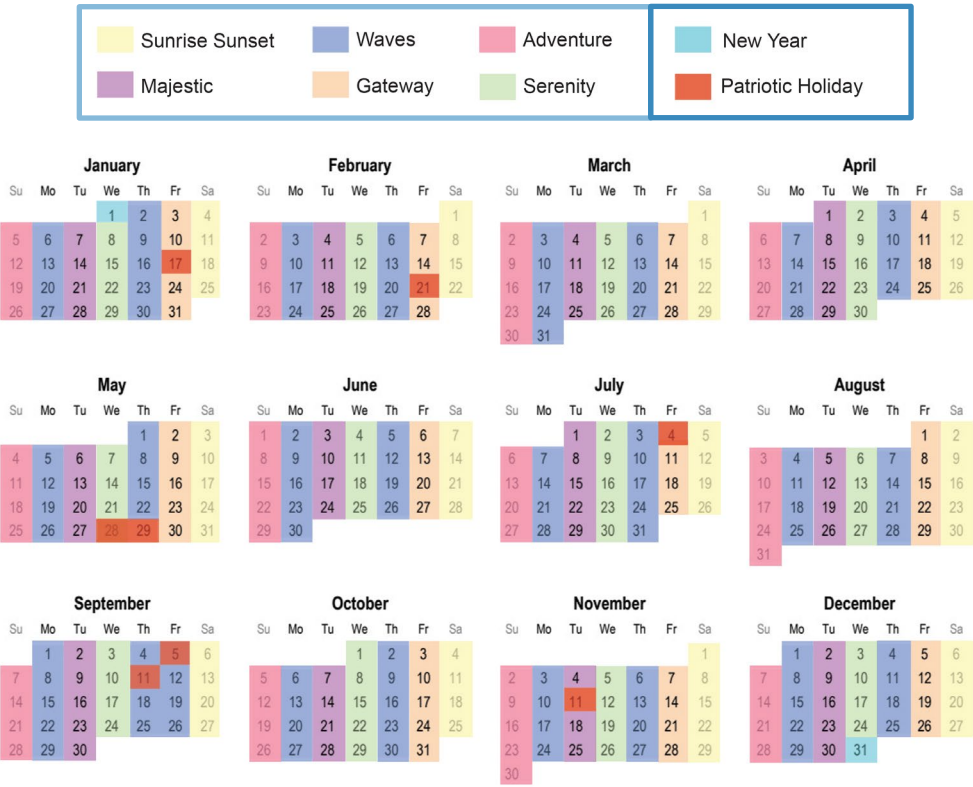


## Season & Holiday Based

## Static Color Picker

## Dynamic Scenes

## Static Color Picker



## Theme Based



# Lighting Scenes - Fall Color Theme Example





# Internal Glow



# Discussion - Questions



# Next Steps

## Bridge Lighting

- County will engage the community near final design regarding lighting scenes

## Periodic Update Meetings

- September 2025 (same timing as Community Design Advisory Group)

## Section 106 Mitigation Specific Meetings

- Reconvene for next topics June 2026

## Reminder for Input:

- Email to [EQRB-Consulting-Parties@multco.us](mailto:EQRB-Consulting-Parties@multco.us)

## Materials Website:

- <https://www.multco.us/earthquake-ready-burnside-bridge/consulting-parties-advisory-group-meeting-materials>

