

# Historic Landmarks Commission - Briefing

Department of Community Services Transportation Division

November 25, 2024







## **DESIGN PHASE**

- June 10th, 2024 Joint Briefing to Historic Landmarks Commission/ Design Commission
  - Project update
  - Range of east approach bridge types
  - Overview of land use application timelines
- August 19, 2024 DAR with Historic Landmarks Commission
  - Project Features and Benefits
  - Review of Mitigation Commitments
  - Upcoming Land Use Reviews and Type IV Approval Criteria





Purpose: More in-depth discussion of historic resource mitigation

Agenda:

- Historic Resource Impacts Requiring Mitigation
- West End Design Progression
- Review of Mitigation Commitments and Consulting Parties Advisory Group Progress
- Historic Resource Protection Commitments
- Discussion Questions



# **Historic Resource** Impacts Requiring Mitigation



Multnomah County placed four bridges on the National Historic Register in 2012 as mitigation for adding a multi-use path on the Morrison Bridge.





Burnside Bridge is Listed on National Register of Historic Places Eligibility Criterion:

- Criterion A for its statewide significance for its association with the development of Portland and its transportation network, especially in contributing to the development of central business district since its construction in 1926
- Criterion C as one of the heaviest bascule bridges in the United States and as the first such bridge to rely upon a concrete deck surface for its movable span

Subject of a Historic American Engineering Record (HAER) documentation





Excerpt from 2012 National Register of Historic Places Registration Form

NOTE: The eastern and western limits shown on figure do not reflect the extent of the existing or proposed bridge United States Department of the Interior National Park Service

#### National Register of Historic Places Continuation Sheet

Section number Documents Page 25

Burnside Bridge Name of Property Multnomah Co., OR County and State Willamette River Highway Bridges of Portland, Oregon Name of multiple listing (if applicable)

Figure 3: Burnside Bridge Boundary Map, Boundary marked with black line





# **Historic Resource Impacts**

## Burnside Bridge is not a contributing resource in the NHLD



ARTHQUAKE 🔛

READY

BURNSIDE BRIDGE

The Burnside Bridge project was just the first of a wave of large-scale public works projects and accompanying building demolitions that significantly altered the physical and economic fabric of the district.

National Historic Landmark Nomination Form for the Skidmore/Old Town NHLD





# **Historic Resource Impacts**

#### **Previous Bridge Construction Impacts:**

ARTHQUAKE 🔛

READY

BURNSIDE BRIDGE

 Burnside Bridge construction truncated and rebuilt the southern façades of the Skidmore Block and Willamette Tent and Awning Building and the approach span was physically attached to adjacent buildings

#### **Example of Project Mitigation Through Design:**



Tent and Awning Co Building façade removal Steve Dotterer Collection

- The project will separate the bridge and approach span from adjacent buildings
- Separation would enhance the ability of the White Stag Block to survive a major earthquake
- Separation would increase visibility of the ground-level façade of the Skidmore Block, which has been obscured under the existing bridge approach span since 1926



# West End Design Progression





READY

EARTHQUAKE 🔛



Northside

Southside

- Multnomah County wants to build and maintain a structure that is accessible for all people, regardless of how they get around.
- The stairs that are in place now do not accomplish that, so the County is removing them and upgrading existing sidewalks to be ADA accessible.
- New or improved ADA-compliant sidewalks will connect to nearby transit facilities, creating safer, more comfortable access for people with disabilities.





# West End Project Elements

## SIDEWALK & INTERSECTION IMPROVEMENTS



- Upgrade existing sidewalks around the block and to adjacent transit stops to ADA standards
- Full rebuild of intersection at West 2nd Avenue and Burnside
- Add crosswalk where none exists today





## **West End Project Elements**

### **EXISTING DETERIORATING SIDEWALKS**









#### Design Concept (details not final)

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#### Design Concept (details not final)

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#### Design Concept (details not final)

# Review of Mitigation Commitments



# **Programmatic Agreement**

## **PA Development**

- Several years of collaboration with Consulting Parties
- Occurred in tandem with NEPA environmental review process
- Discussed lots of mitigation approaches and ideas
- Focused on meeting Section 106 requirements to mitigate for the adverse effect – Loss of the Historic Bridge and protect other existing resources
- Developed novel approach to archaeological resource identification, monitoring, and treatment







### **Consulting Parties**

- National Park Service (NPS)
- Architectural Heritage Center
- Columbia River Inter-Tribal Fish
  Commission
- HistoricBridges.org
- Oregon Black Pioneers
- Oregon Historical Society
- Japanese American History Museum
- Restore Oregon
- Willamette Light Brigade
- Historic Bridge Foundation
- Gresham Coalition of Neighborhoods
- Buckman Neighborhood Association
- Central Eastside Industrial Council

- Edward Wortman & Sharon Wood Wortman
- John Czarnecki
- John Weir
- Confederated Tribes of the Grand Ronde
  Community of Oregon
- Confederated Tribes of Siletz Indians
- Confederated Tribes of the Warm Springs Reservation of Oregon
- Confederated Tribes of the Umatilla Reservation
- Confederated Tribes and Bands of the Yakama Nation
- Nez Perce Tribe
- Cowlitz Indian Tribe





# **Programmatic Agreement**

#### **Signatories**

- Federal Highway Administration
- Oregon State Historic Preservation Office
- Oregon Department of Transportation
- Multnomah County
- Advisory Council on Historic Preservation
- Concurring: National Park Service

Key Findings: No adverse effect on any historic buildings

#### Purpose

- Identifies mitigation of adverse effects to the Burnside Bridge
- Defines an Archeological Identification, Monitoring, and Treatment Plan
- **Defines** minimization efforts for construction vibration
- Identifies stipulations for the protection and treatment of historic resources during construction





## **Purpose:**

To advise the project on the implementation of mitigation commitments identified in the Programmatic Agreements (PA Section V.6)

## **Progress:**

- Met approximately monthly since May 2024
- Discussed and provided guidance for:
  - Themes and requirements for the Interpretive Displays
  - Items to salvage and potential ideas for reuse
  - Specifications and needs for the 3-D Scan
- Created Task Assumptions documenting the results of this work to be used for design and implementation of the mitigation





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	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3 Q4
Salvage and Reuse																															
New Bridge Components in NHL																															
Interpretive Displays																															
3D Scan																															
Video Documentation																															
Documentation																															
Archival Records																															
Publication																															
3D Model																															
Public Event																															
Wikipedia Entry																															
OR Encyclopedia Entry																															
Book Update																															

Procurement

Implementation





# **Advisory Group Work Plan**

### May 2024 -November 2024

- Design and the NHL District
- Salvage and Reuse
- Interpretive Displays
- 3-D Scanning

### April 2025 -February 2026

- Video Documentation
- 3-D Model
- Documentation (HAER)
- Archival Records
- Publication
- Public Event

### March 2027 -April 2028

- Book Update
- Wikipedia Entry
- Oregon Encyclopedia Entry



# Advisory Group -Work to Date



## Salvage and Reuse

• Exploring options to salvage and reuse components of the current Burnside Bridge (examples: railings, mechanical components, etc.).

Criteria A & C





## Salvage Feasibility

• Explored level of effort required and risk of damage to potential salvage components

Potential Sa	Ivage Compon	ents			Level of Effort	Risk of Damage
Very Low	Low	Moderate	High	Very High	Infeas	ible
1 - Operator	Tower					
Entire Opera	tor Tower (as a w	hole)				
Red Terraco	tta Roof (Terracot	ta Tile Shingles over	Steel Frame with	Concrete Slab)		
Green Archit	ectural Operators	Quarters (Glass Win	dows and TerraCo	tta Tiling)		
Beige Archite	ectural Tower (Ce	ment Stucco over Te	rra Cotta Walls)			
Walking balo	ony					
2 - Metal Bri	dge Railing					
3 - Concrete	Bridge Railing	J				
Individual ba	lustrades					
Balustrade p						
Transition ur						
4 - Steel Stru	uctural Compo	nents				
Individual riv	ets / bolts					
Truss portion	ns (at joints)					
5 - Historic Na	me Plate					
0 Maakania						
	al Component					
		ery housed in mecha	inical room)			
Interior trunn	ion tower					
Pinion rack						
7 - Douglas						
Piling from s	-					
Piling from b	elow foundations					



**Operator Tower** 







#### **Metal Bridge Railings**

#### **Concrete Bridge Railings**











## Salvage Task Assumptions

- Identifies working assumptions for what items will be salvaged including:
  - General removal and handling assumptions
  - Item and number of each to be salvaged





Potential Salv	vage Component	5			Level of Effort	Risk of Damage	Proposed
Very Low	Low	Moderate	High	Very High	Infe	asible	
1 - Operato	r Tower						
Entire Oper	ator Tower (as a v	/hole)					Not Likely
Red Terrac	otta Roof (Terraco	tta Tile Shingles over S	Steel Frame with	Concrete Slab)			Yes
Green Arch	itectural Operators	Quarters (Glass Wind	lows and Terra C	otta Tiling)			Yes
Beige Archi	itectural Tower (Ce	ement Stucco over Terr	ra Cotta Walls)				Yes
Walking ba	lcony						Yes
2 - Metal Br	idge Railing						
**Post to post	railing panels						Yes (4)
3 - Concret	e Bridge Railin	g					
Individual b	alusters						Yes (32)
Balustrade	panel						Yes
Transition ι	inits						No
4 - Steel Str	ructural Compo	onents					
Individual ri	vets / bolts						Yes (200)
Truss portion	ons (at joints)						No
5 - Historic N	ame Plate						
							Yes
6 - Mechani	ical Componen	ts					
Motors and	gears (i.e., machi	nery housed in mechar	nical room)				Yes
	emblages and pinion	gears					
Interior trun							No
Pinion rack							No
7 - Douglas	Fir Piling						
Piling from	starling						No
Piling from	below foundations						No



## **Interpretive Displays**

• Three displays (min) to be located on the bridge, focusing on the Burnside Bridge history and significance including social and civic importance.

Criteria A & C




#### **Interpretive Displays**

#### Theme #1: Before the Burnside Bridge Possible topics under this theme:

- Precontact: how Indigenous peoples used the Willamette River before non-Indigenous peoples arrived.
- Postcontact: how Indigenous and non-Indigenous peoples used the Willamette River before the Burnside Bridge was built.
- Postcontact: why a bridge at this location was needed after non-Indigenous peoples founded Portland and the city expanded.



1841 approximate location of the Burnside Bridge indicated. Source: Wilkes 1858:Sheet No. 7





#### **Interpretive Displays**

#### Theme #2: History of the Burnside Bridge Possible topics under this theme:

- First Burnside Bridge at this location and why it was replaced.
- Design and construction of the second Burnside Bridge.
- Designer of the second Burnside Bridge.
- Bascule operation of the second Burnside Bridge: why it opens and how it opens.
- Why the second Burnside Bridge is such a significant and notable work of engineering.



Photo taken from waterfront. Source: Portland Archives, 1926





#### **Interpretive Displays**

#### Theme #3: Social Importance of the Burnside Bridge Possible topics under this theme:

- Automobiles, Buses, and Streetcars: Crossing the Burnside Bridge, 1924 to 2027.
- Events: Rose Parade, protests, and demonstrations.
- Burnside Bridge in art and photography.
- Burnside Bridge in popular culture and public memory.
- Construction and use of the Burnside Skatepark
- Continual use of the Willamette River by Indigenous peoples as a fishery.



Portland Protest #2, June 2, 2020 Source: Andrew Wallner





### **Interpretive Displays**

#### Theme #4: Geology and Seismic Possible topics under this theme:

- Seismic fault lines in the region
- Precontact seismic events from geologic and Indigenous peoples' perspectives.
- Postcontact seismic events since the arrival of non-Indigenous peoples.
- Soil conditions in the vicinity of the Burnside Bridge.
- Why the replacement Burnside Bridge must be seismically resilient.



Soils under Burnside Bridge Source: Shannon & Wilson, Inc.





#### Interpretive Display Task Assumptions

- Identifies tasks a contractor will be responsible for including:
  - Number and size (potentially 8 panels)
  - Content
  - Location
  - Durability
- The content of at least one of the interpretive panels should include elements related to Indigenous peoples, based on those identified in the themes above.
- Including elements related to Indigenous peoples within all of the panels when related to a panel's theme is encouraged.
- The content of at least six of the interpretive panels should include elements identified in Themes #1 #3 to comply with the specifications of the Section 106 Programmatic Agreement, Section II.2.v.







#### **Three-Dimensional Scanning**

A three-dimensional scan will be made available to the public. 



https://www.geoterra.co.uk/

Oregon State researchers work to preserve the past with 3D mapping of Silver Falls Lodge

Criterion C

#### 

By Kristian Foden-Vencil (OPB)

w 4. 2024-6 a.m. Updated: May 13: 2024-4:21 p.m.



OSU student and staff fly a 3D mapping drone at Silver Falls State Park, April 24, 2024 Kristian Foden-Vencil / OPB



#### **3-D Scan Task Assumptions**

#### **Scan Content**

- The entirety of the Burnside Bridge will be scanned including the approaches.
- The top, bottom, and interior areas of the bridge will be scanned:
  - Mechanical rooms, counterweight pits, operator towers, walking balcony, and all railings.
- The scan will capture the bridge in the open and closed positions.

### **Scan Specifications**

- Captured in true color and will have a RGB color designation for the X, Y, Z coordinates.
- Registered into a common coordinate system and will be exported for use in a common software package.
- Include a 3-D model.
- May include an animation of opening and closing.



## Advisory Group -Next Up



#### Criteria A & C

#### **Generate HAER Documentation**

- Historic American Engineering Record (HAER) documentation details and requirements will be prescribed by National Park Service.
- Received NPS Stipulation letter in June 2024



Example of HAER style drawings Source: Courtesy Library of Congress





#### **Video Documentation**

• Four videos (min) showing opening and closing operations, interior of the bridge cab and processes, internal bridge machinery in operation, and demolition and construction.





**Criterion C** 



#### **3D Scale Model**

• The model will be at a scale of 1:500, designed for public display, and fabricated of durable materials.





**Criterion C** 

Made by <u>feYerwerks</u>



#### Criteria A & C

#### **Digitize Archival Records**

- Identify unarchived manuscripts, photographs, plans etc.
- Repositories Includes:
  - Oregon Historical Society
  - Multnomah County Central Library
  - Portland Archives and Records
  - Multnomah County Archives
  - Oregon State Archives
  - ODOT Library
  - University of Oregon Libraries
  - Oregon State University Libraries
- Digitize and make new submissions to archive records for the Burnside Bridge
- Make available to the public through existing online portals

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Help			Title	Record Number	Record Date
	-	*	City Auditor - City Recorder - Council Documents - Improvements - Bridges - Bill of W. H. Butts for Repair of Burnside Bridge	AF/195862	12/31/1872
aroh	<b>—</b>	*	City Auditor - City Recorder - Council Documents - Improvements - Street Lighting - Petitions to Install Lamps	AF/196854	12/31/1879
	BAIL	\$	City Auditor - Archives 5 Records Management - Auditor's Historical Records - A2004-002,6804 : View of Mt. St. Helen's and the Willamette from the West Hills, Burnaide Bridge construction	AP/19715	12/31/1892
Search	JPG	*	City Auditor - Archives & Records Management - Auditor's Historical Records - A2004-002.692 : Tacoma boat approaching Burnside Bridge	AP/4912	06/30/1894
	. B	*	City Auditor - Archives & Records Management - Auditor's Historical Records - A2004-002.6812 ; View of Mt. St. Helens and the Willamette from the West Hills, Burnside Bridge construction	AP/19724	12/31/1894
		*	City Auditor - Archives & Records Management - Auditor's Historical Records - A2004-002.9211 : Burnside Bridge	AP/50862	12/31/1894
	-	*	City Auditor - City Recorder - Council Documents - Improvements - Bridges - Proposal to Hold Celebration for New Burnside Bridge	AF/201216	12/31/1894
irch		*	City Auditor - Archives & Records Management - Auditor's Historical Records - A2004-002.5809 : View of the waterfront near the Burnside Bridge	AP/15028	12/31/1900
		*	City Auditor - Archives & Records Management - Auditor's Historical Records - A2004-002.5820 : View of the Willamette River between the Railroad and Burnside Bridge	AP/15039	12/31/1900
	and the Area	*	City Auditor - Archives & Records Management - Auditor's Historical Records - A2004-002,2722 : Panoramic view of Portland from the area near SW 13th Ave and SW Mill St looking northeast	AP/7660	12/31/1900

#### https://www.portland.gov/archives/archives





#### Criteria A & C

#### **Scholarly Publication**

- Scholarly publication including history of lower Willamette River crossings addressing:
  - Precontact crossings
  - Ferries and bridges
  - Navigation below Willamette Falls
  - Historical themes and major chronological periods
  - Civic and social importance
- Minimum of 150 pages
- Will Include:
  - contemporary photographs and drawings
  - historical images
  - Oral histories (tribal members, engineers, bridge operators, others)
  - Historic maps









#### **Example Publication**

- Oklahoma DOT
- Removal of historic bridge
- Includes:
  - Geography and hydrology
  - Early history
  - Early crossings
  - Waterway transportation
  - Development phases
  - Highway and rail transportation
- 150 pages



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#### **Host Public Event Prior to Demolition**

• A half-day event for the public will celebrate and acknowledge the history of the existing bridge.





https://www.multco.us/multnomah-county/gallery/stroll-down-memory-lane-neighbors-bid-farewell-their-bridge

## Advisory Group -2027 - 2028



#### Criteria A & C

### **Update Wikipedia Entry**

• Update the Wikipedia entry to include the broader social and cultural context, corrected links, and link to the Multnomah County Burnside Bridge website.

#### **Update Oregon Encyclopedia Entry**

• Develop an entry for the online Oregon Encyclopedia including the role of the Burnside Bridge and its significance.

## Update The Big and Awesome Bridges of Portland and Vancouver book

• Develop an online pamphlet focusing on the replacement of the Burnside Bridge compatible with the format of The Big and Awesome Bridges of Portland and Vancouver book to be available to the public and educators.





# **Historic Resource** Protection Commitments



### **Programmatic Agreement**

### PA Section IV. Minimization of Construction Vibration Damage

- Includes list of identified unreinforced masonry historic buildings.
- If vibration is projected to exceed thresholds, the project will:
  - Conduct pre- and post-construction conditions assessments
  - Stop work if vibration exceeds limits
- If buildings are affected, the project will:
  - Prepare a Treatment Plan meeting Secretary of the Interior's Standards for the Treatment of Historic Properties (reviewed by SHPO and NPS)







PA Attachment 2 - Identification, Protection, and Treatment of Built Historic Resources During Reconstruction of the Burnside Bridge

- Includes list of identified historic properties
- Guidelines for construction within National Historic Landmark
- Must meet Secretary of the Interior's Standards for Rehabilitation
- Guidelines for new Bridge within the National Historic Landmark
  - Views, materials, and color, etc.
- Guidelines to protect historic features/buildings
  - Contractor will prepare a Protection Plan (reviewed by SHPO and NPS)
  - Use hand tools to separate bridge from buildings and sidewalks





## Discussion Questions

## Thank you