



# Historic Landmarks Commission Briefing

**Presenters:**

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Patrick Sweeney, PBOT

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Jeff Heilman, Parametrix

Steve Drahota, HDR

Cathy Corliss, Angelo Planning

Department of Community Services  
Transportation Division

December 7, 2020

# Project Overview

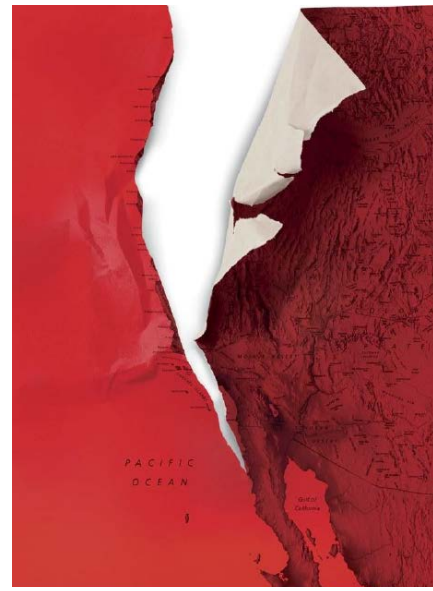


# Project Overview

## Background

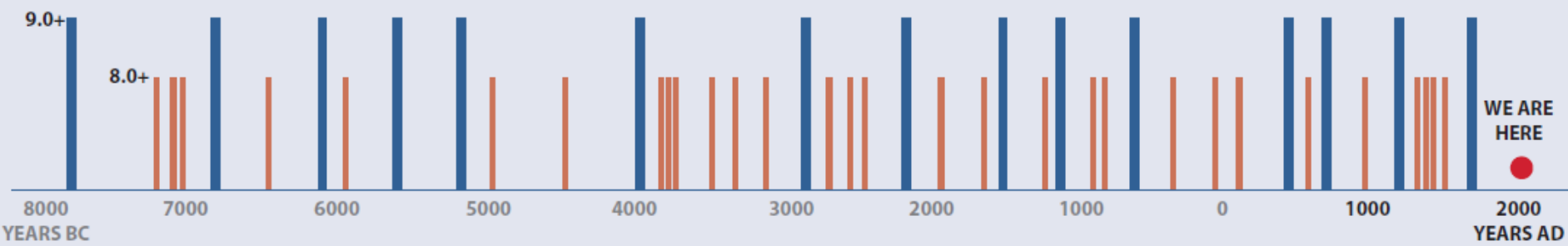
REGIONAL  
EARTHQUAKE  
RISK

1 in 3 chance of  
magnitude 8+  
earthquake  
within 50 years



### CASCADIA SUBDUCTION ZONE (CSZ) EARTHQUAKE

Last major quake in Oregon occurred 317 years ago, a timespan that exceeds 75% of the intervals between the major quakes to hit Oregon over the last 10,000 years.



## Purpose and Need



**Seismic Resiliency and Emergency Response**



**Regional Recovery and Rebuilding**

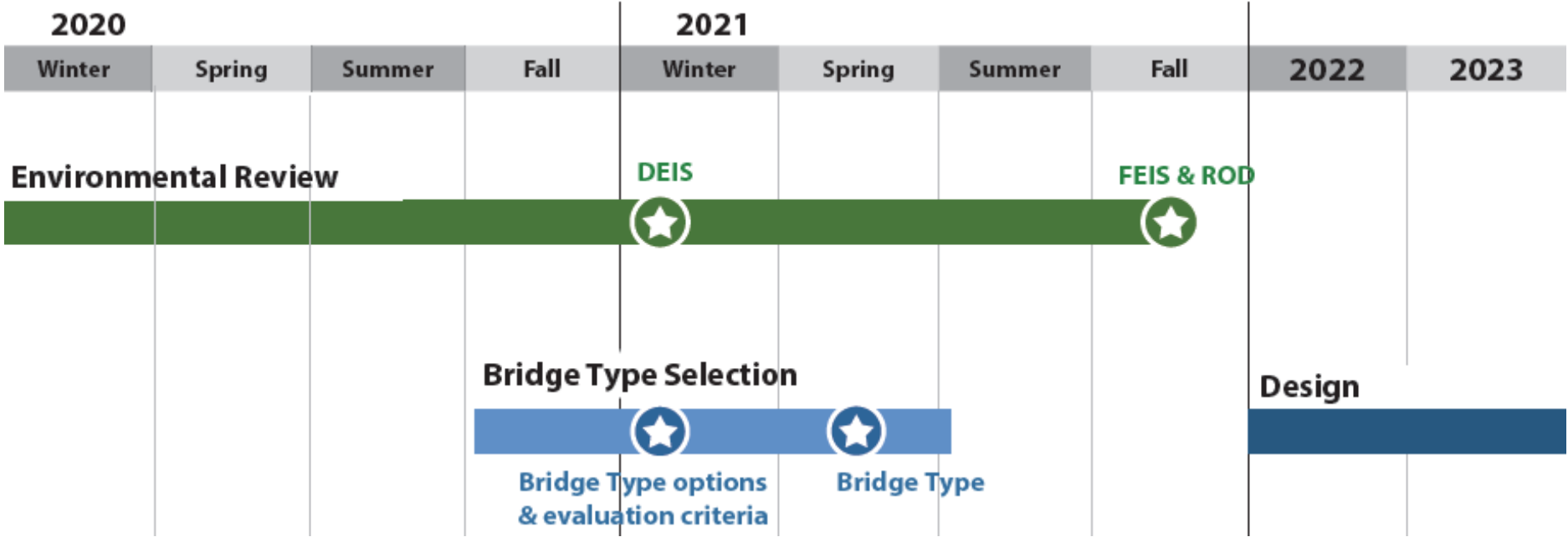


**Long-term Use**



# Project Timeline

## Environmental Review and Bridge Type Selection



### Environmental Review

- Jan 2021: Publish Draft Environmental Impact Statement (DEIS) and begin 45-day comment period
- Fall 2021: Final Environmental Impact Statement (FEIS) and Record of Decision (ROD)

### Bridge Type Selection

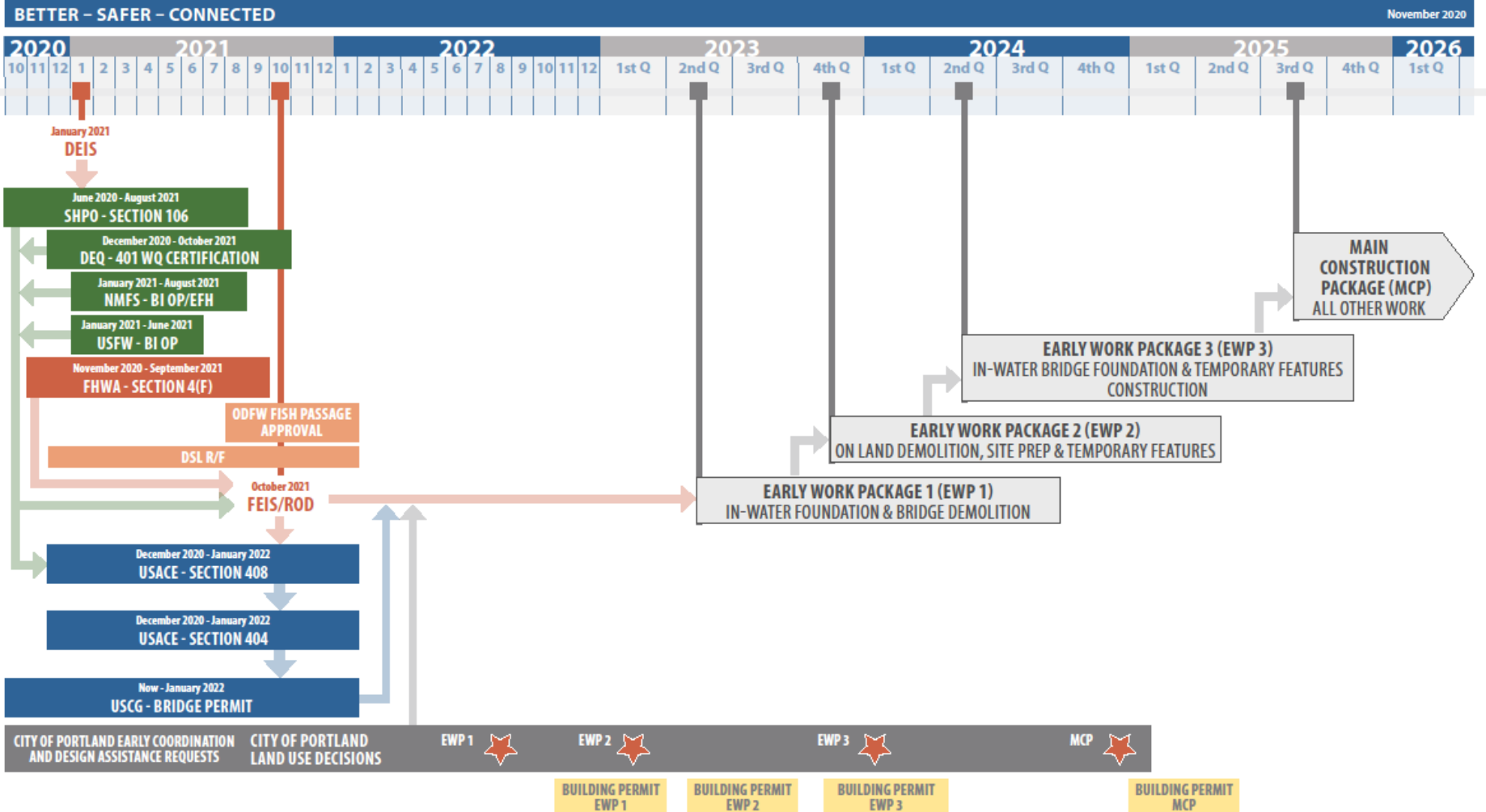
- Jan/Feb 2021: Input on range of Bridge Type options and evaluation criteria
- May 2021: Input on recommended Bridge Type



# Project Permits



## PERMIT PREDECESSORS AND MILESTONES



KEY: ★ LU DECISION

# Range of Alternatives in DEIS



**Enhanced  
Seismic Retrofit**



Replacement:  
**Short Span**  
(Bascule or Lift)



Replacement:  
**Long Span**  
(Bascule or Lift)



Replacement:  
**Couch Extension**  
(Bascule or Lift)

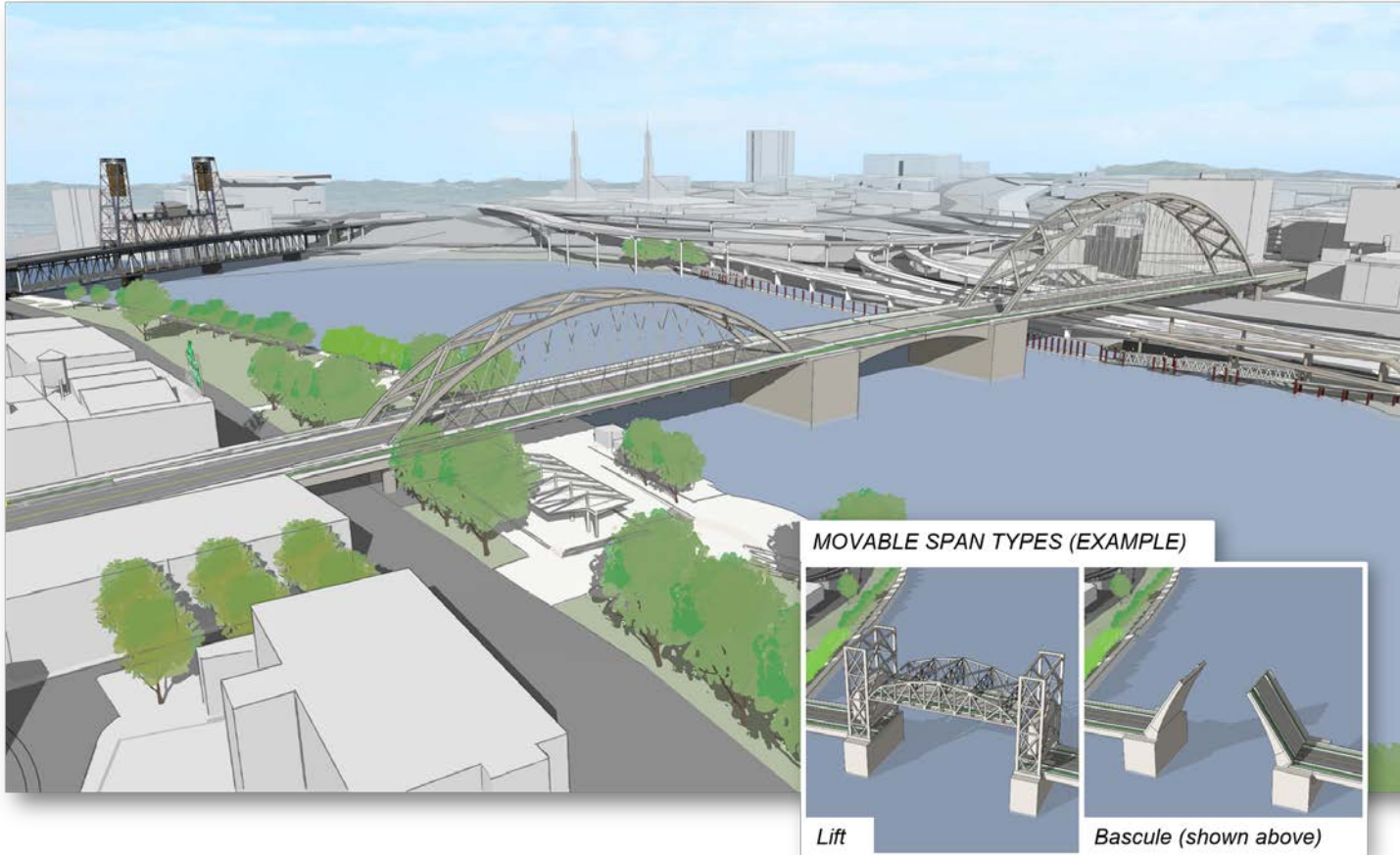


*(Concept Images)*

# Recommended Preferred Alternative

By Community Task Force, Policy Group and Board of County Commissioners

## Replacement Long Span

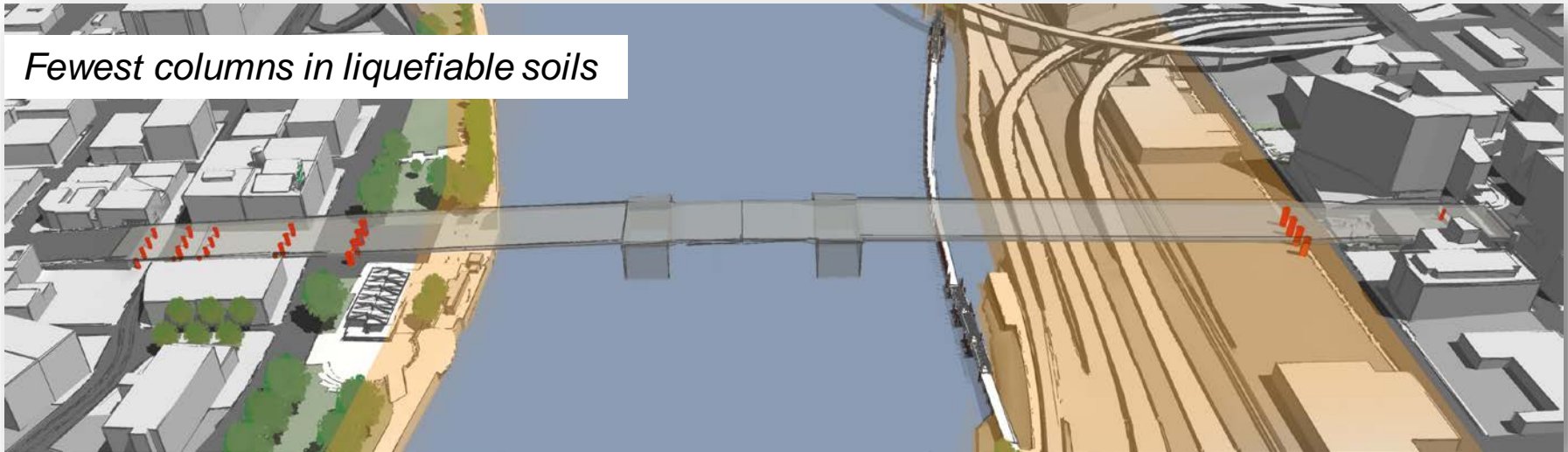


*The example image above is just one variation of what a long span bridge could look like.*



# Recommended Preferred Alternative

## Replacement Long Span



### BENEFITS

- Best for seismic resiliency
- Least cost alternative
- Enhances/preserves community resources
- Improves safety for bike/ped/ADA
- Least impacts to natural resources

### IMPACTS

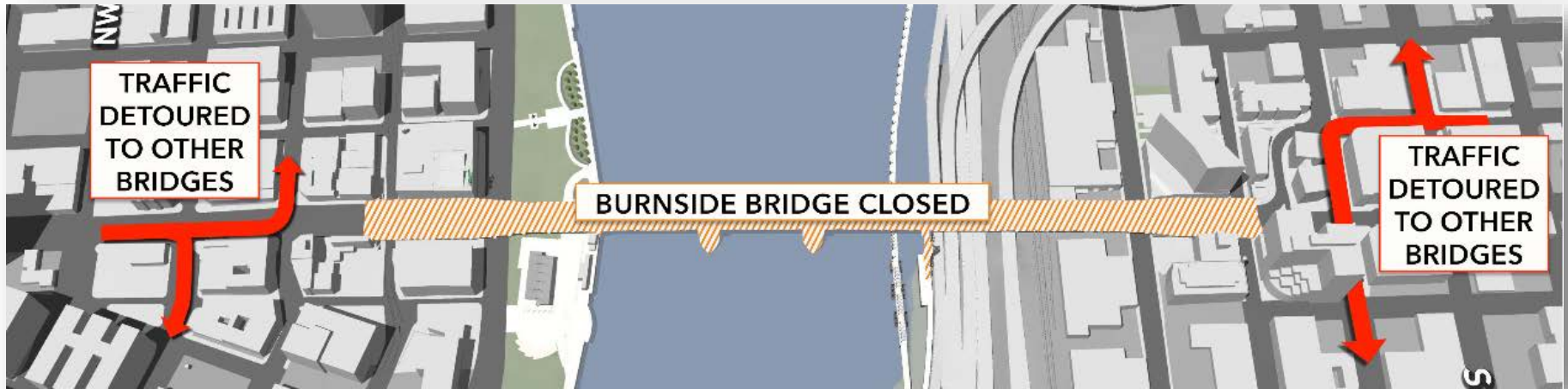
- Removes historic Burnside Bridge

### CONSIDERATIONS

- Views

## Traffic Management During Construction

### Full Bridge Closure



- **Least cost** - the temporary bridge would add \$90 million to the project cost
- **Shortest construction duration** (the temporary bridge would add 1.5 years to construction duration, extending duration of impacts to surrounding area including parks, residents, recreational activities and transportation)
- Least in-water construction which **reduces impact to natural resources**

# Outreach

## By the Numbers

70+

**BRIEFINGS** to agencies, individuals, and organizations

19

DEI organizations reached

25,000+

**UNIQUE VISITORS** to the online open house and survey

6,800+

**SURVEY RESPONSES**

6

In-language **TRANSLATIONS** of the online open house and materials

38

Social media **POSTS** and **ADVERTISEMENTS**

2,578

E-newsletter **RECIPIENTS**

4

**NEWS RELEASES AND E-NEWSLETTERS**

147

**BUSINESSES CONTACTED** via phone canvassing

41,900

**FLYERS MAILED**

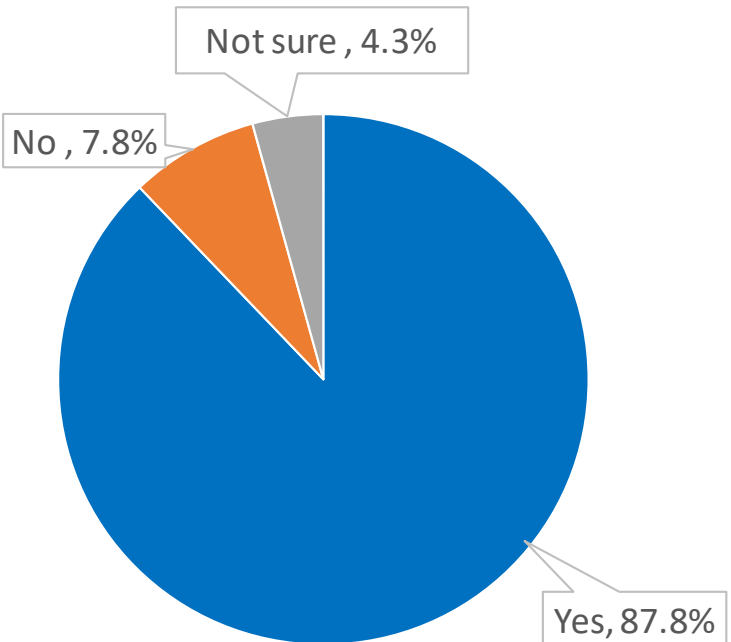


# Outreach

## Summer 2020 Online Survey – What we heard

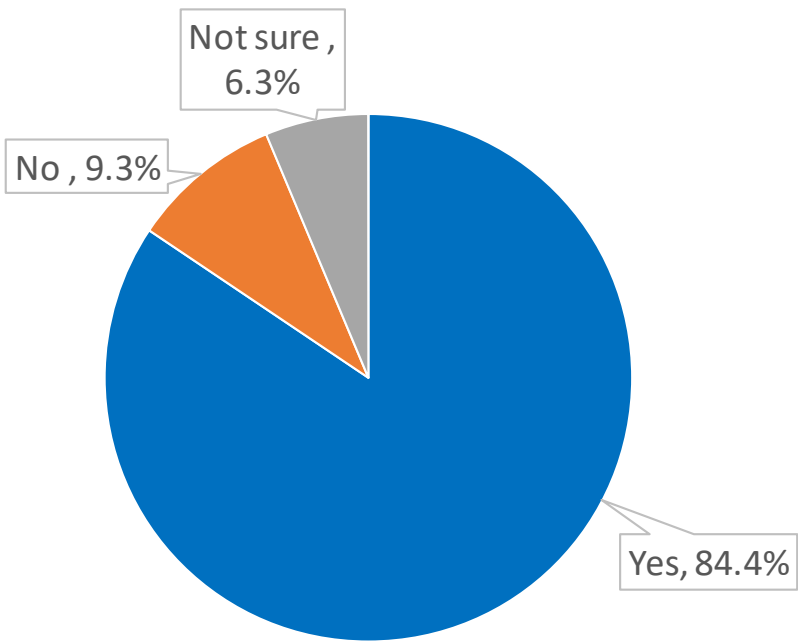
*Is the Replacement Long Span the right choice?*

**87.8% agree with the Replacement Long Span**



*Is a full bridge closure during construction the right choice?*

**84.4% agree with a full bridge closure**



# Historic Resources and Items of Interest

What else should we be thinking about?



# Historic Resources

## Historic Landmarks Commission – Items of Interest

### Resources and regulatory processes

- Section 106 resources and process
- Section 4(f) resources and process
- Local Historic Landmarks



# Historic Resources

## Section 106 Resources and Effects

### New Chinatown / Japantown Historic District & Skidmore / Old Town National Historic Landmark District

- No Adverse Effects on districts; Construction vibration impact concerns but no adverse effect;
- Removes 108 Burnside (HRI)

#### Adverse Effects

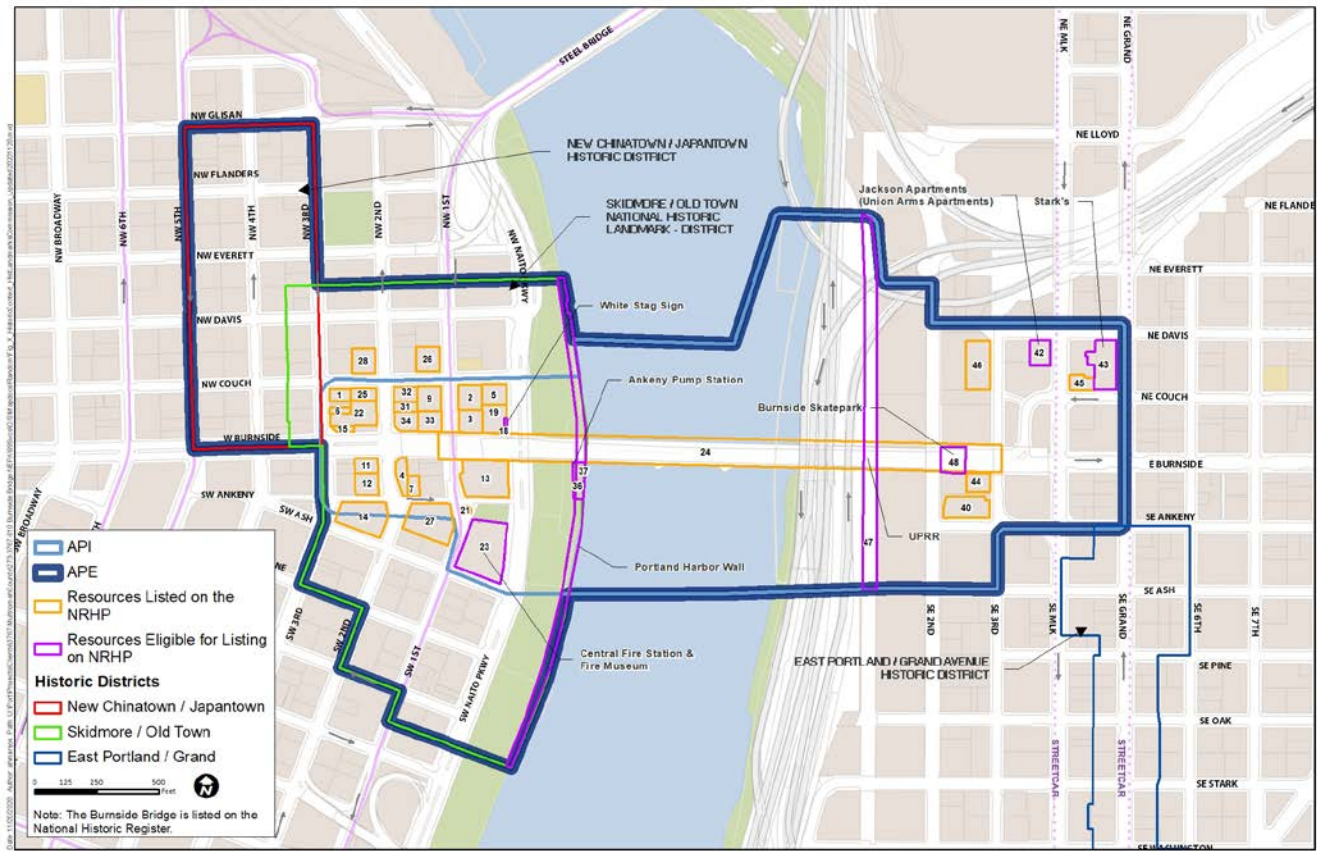
- Burnside Bridge (all alts)
- Burnside Skatepark (retrofit)

#### No Adverse Effects

- Portland Harbor Wall\*
- White Stag sign\*

#### New Eligible – No Effect

- Fire Station No. 1
- Ankeny Pump Station
- Union Pacific Railroad
- Stark's
- Jackson Apartments (Union Arms)



SKIDMORE HISTORIC DISTRICT

### Potential Effect on Buried Resources



### Historic and Cultural Resources Consulting Parties Meeting – Nov. 30

To be completed after Nov 30<sup>th</sup> meeting, will be updated prior to Dec 7<sup>th</sup> meeting





## Environmental/NEPA Phase (2019-2021)

- Draft Environmental Impact Statement (EIS) input and comment period
- Section 106 and Section 4f regulatory processes
- Mitigation (for Section 106 Agreement)
- City permit coordination regarding applications
- Final EIS and Record of Decision

## Type Selection Phase (2020-2021)

## Final Design Phase (2022-2024)



# Bridge Type Selection Phase

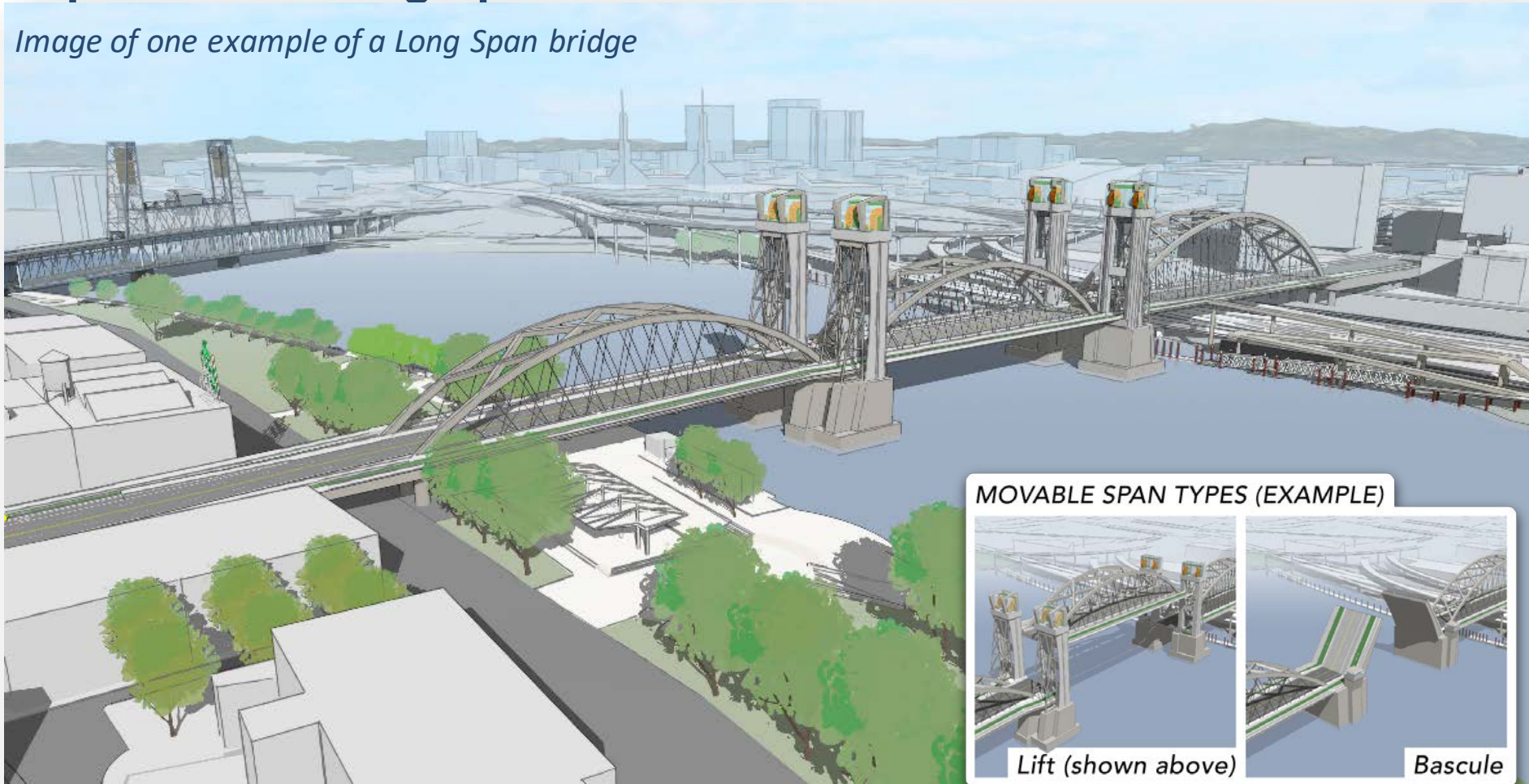


# A New Burnside Bridge

## Preferred Option Moving Forward

### Replacement Long Span

*Image of one example of a Long Span bridge*



**MOVABLE SPAN TYPES (EXAMPLE)**



Lift (shown above)



Bascule

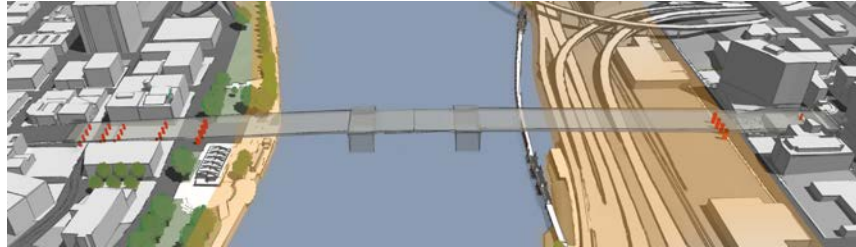




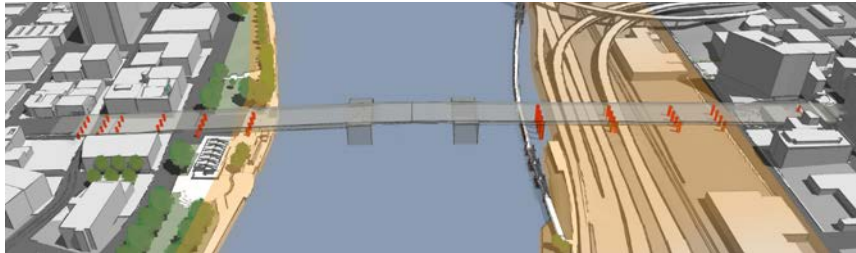
# Best for Seismic Resiliency

Locating fewer columns in liquefiable soils gives it the least risk from soil movement during an earthquake

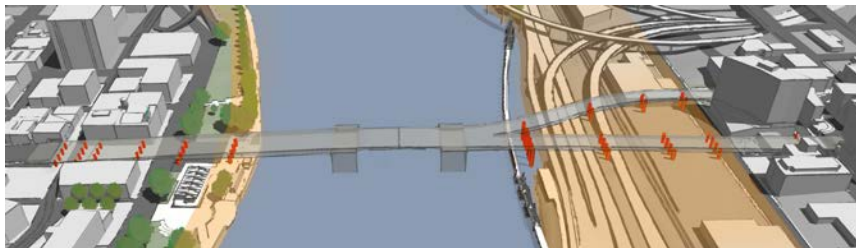
**Replacement  
Long Span**



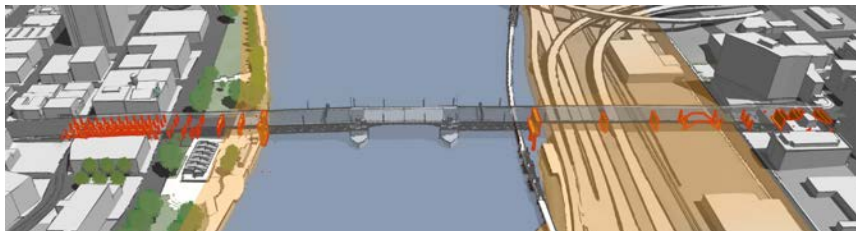
**Replacement  
Short Span**



**Replacement  
Couch Extension**



**Enhanced  
Seismic Retrofit**

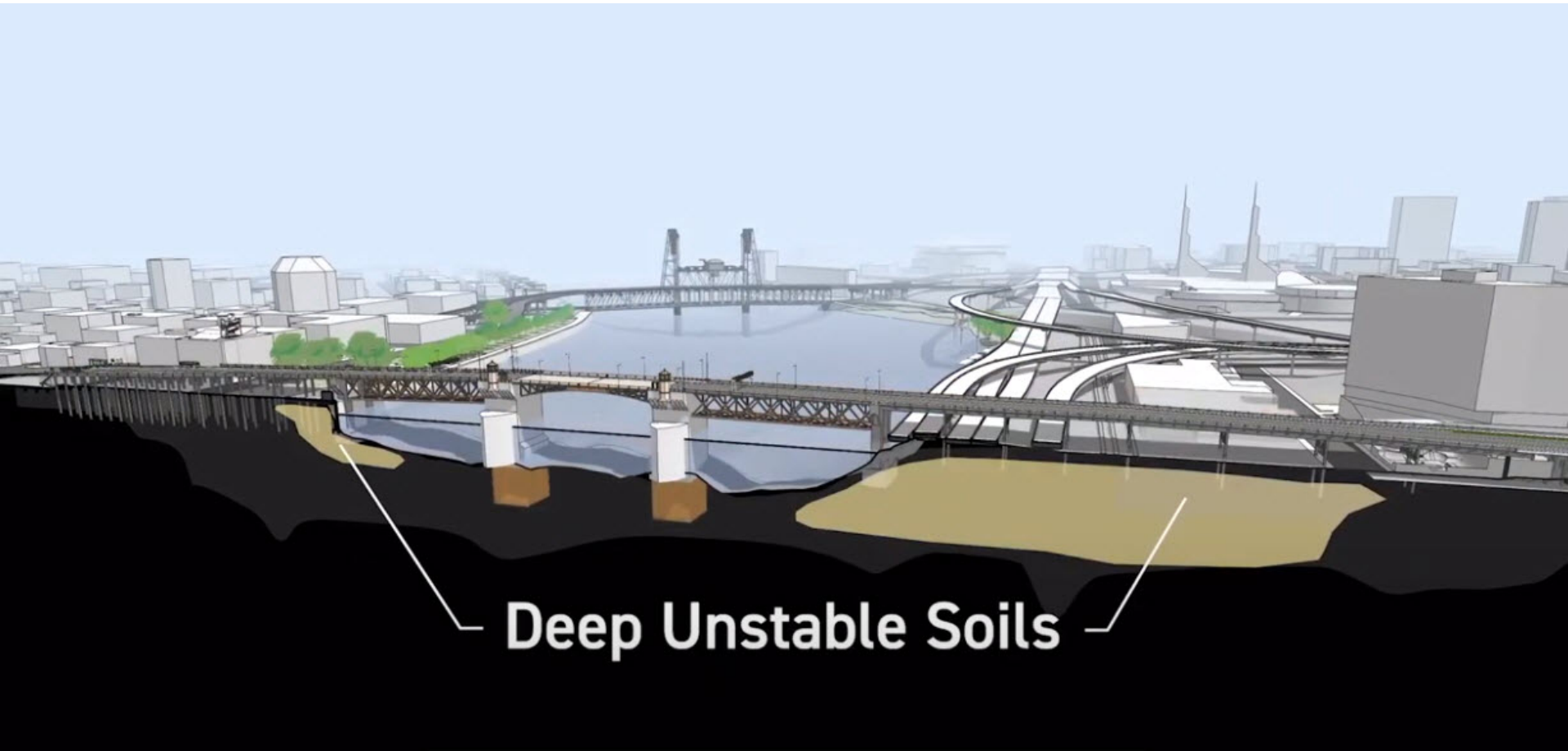




# Best for Seismic Resiliency



Locating fewer columns in liquefiable soils gives it the least risk from soil movement during an earthquake



Deep Unstable Soils



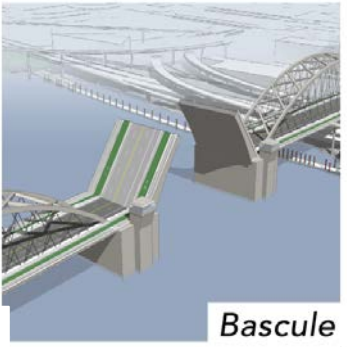
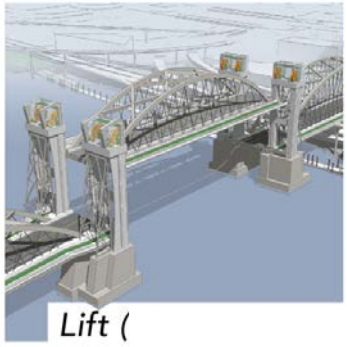
# Study a range of different Bridge Types

## Examples of Long Span Bridges Under Consideration



+

**MOVABLE SPAN TYPES (EXAMPLE)**



# Study a range of different Bridge Types

## Bridge Type Examples

### BRIDGE TYPE OPTION: Tied Arch examples



Hastings Bridge, Minnesota



Torikai Ohas Bridge, Japan



Siuslaw River Bridge, Oregon



Tacony-Palmyra Bridge, Pennsylvania



Gateway Bridge, Michigan

### BRIDGE TYPE OPTION: Cable Stayed examples



Indian River Inlet Bridge, Delaware



Chongqing Expressway Bridge, Oregon



Copper River Bridge, South Carolina



Tilikum Crossing Bridge, Oregon

### BRIDGE TYPE OPTION: Through Truss examples



Main Street Bridge, Florida



Triborough (Harlem River) Bridge, New York



Tower Bridge, CA



Broadway Bridge, Oregon



Hawthorne Bridge, Oregon

### MOVABLE SPAN: Bascule examples



South Park Bridge, Washington



Harbor Bridge, Spain



New Johnson St. Bridge, Canada



Woodrow Wilson Bridge, Maryland

### MOVABLE SPAN: Vertical Lift examples



Tereganu Bridge, Malaysia



Fore River Bridge, Massachusetts



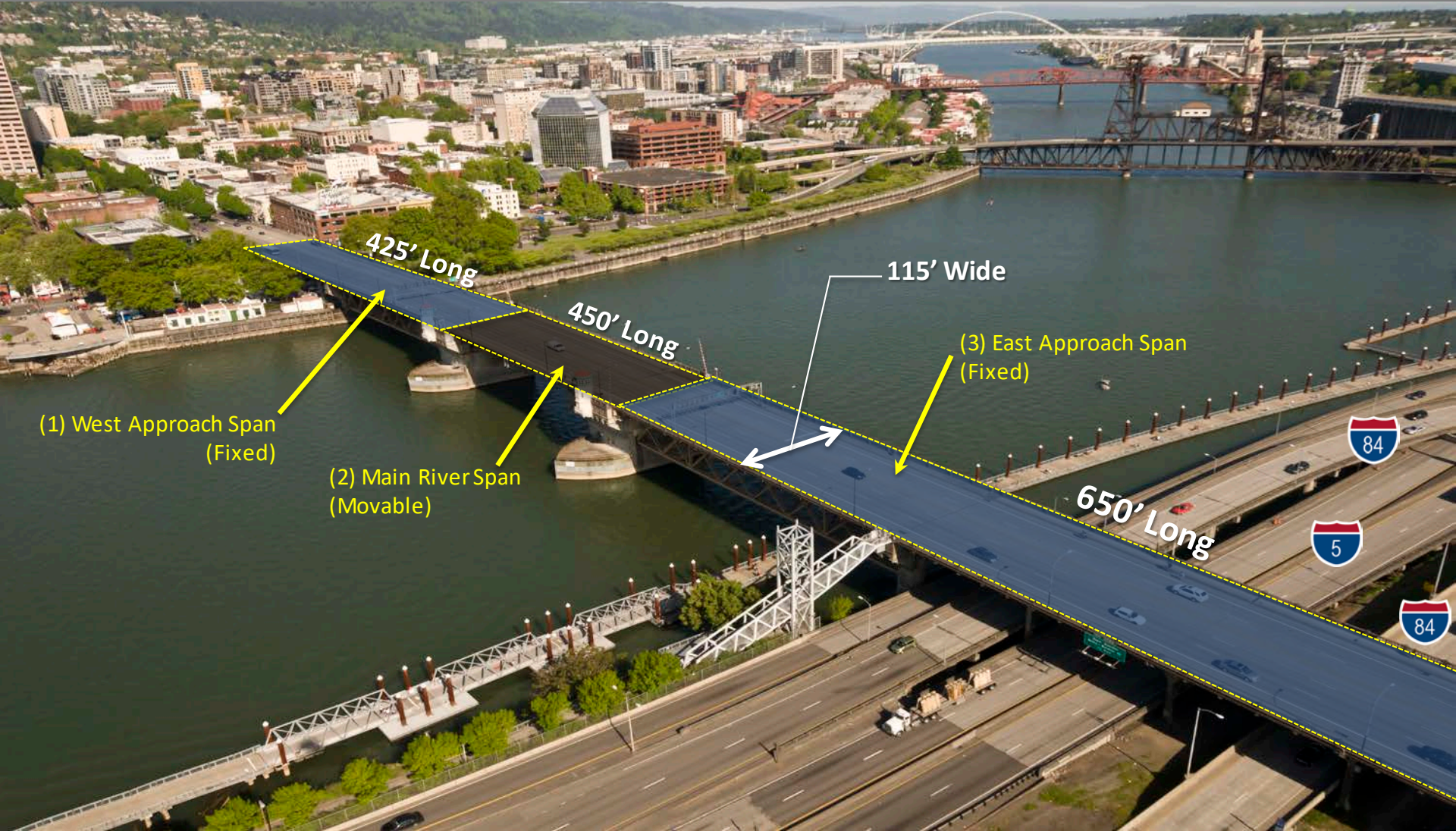
Pont Jacques Chaban, Delmas



Manchester Millenium Bridge, England

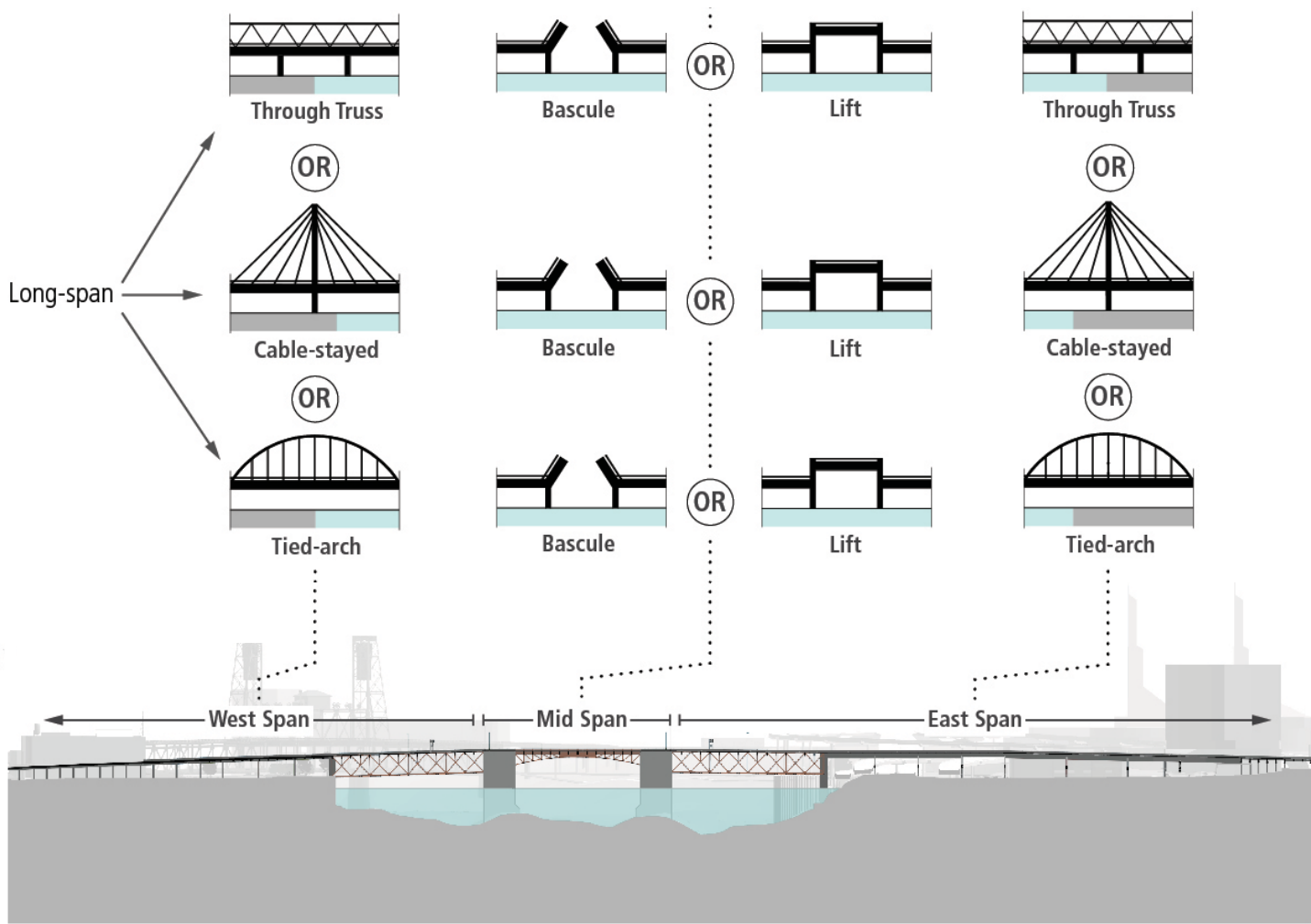
# Bridge Types Overview

Long Span – “Three bridges in one”





# Bridge Types Overview



# Bridge Types Overview

## Tied Arch Option



# Bridge Types Overview

## Cable Stayed Option



# Bridge Types Overview

## Girder Option (columns within Waterfront Park)



# How will we choose one?

We'll study and compare the options related to:



## Urban Context and Experience

- On-bridge Experience
- Urban Setting
- Public Use and Context



## Visuals and Aesthetics

- Visual Coherence
- Bridge Form and Style
- Bridge Aspirations



## Cost

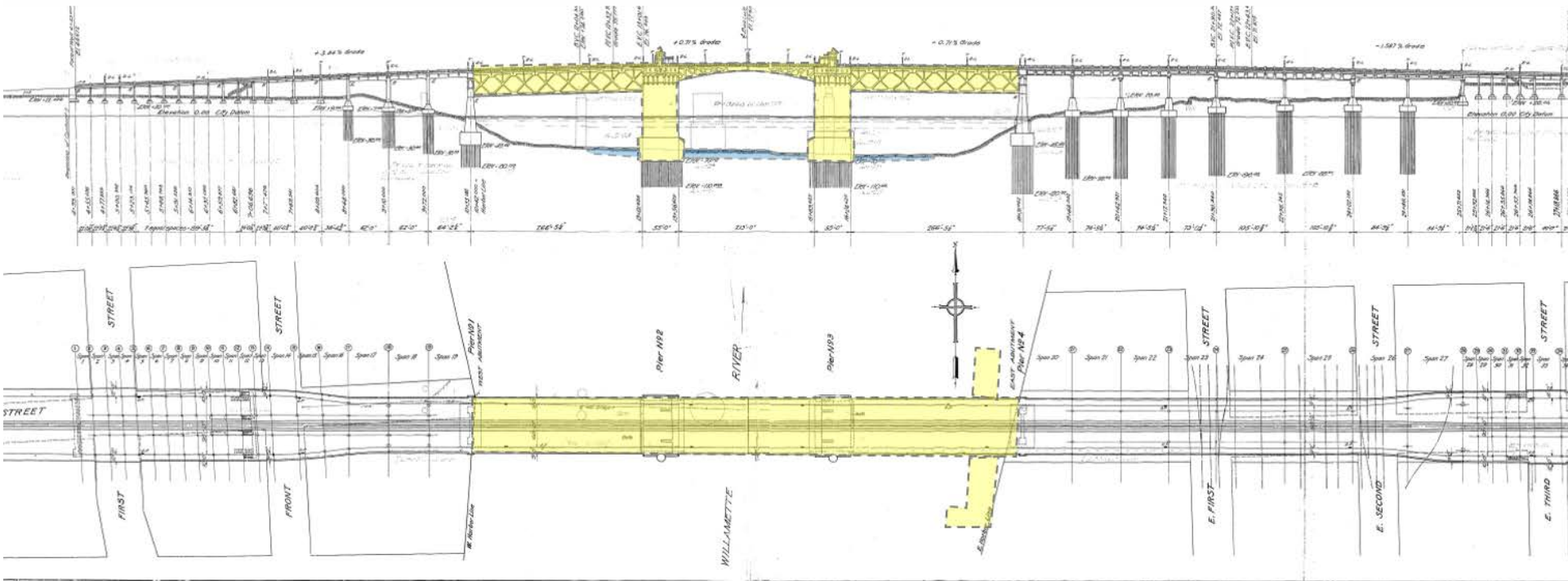
- Cost to Design and Construct
- Cost to Maintain Over the Long-Term



# How will the Project be Constructed?

... using a series of Construction Packages

## Work Package 1: In-Water Foundations & Bridge Demolition

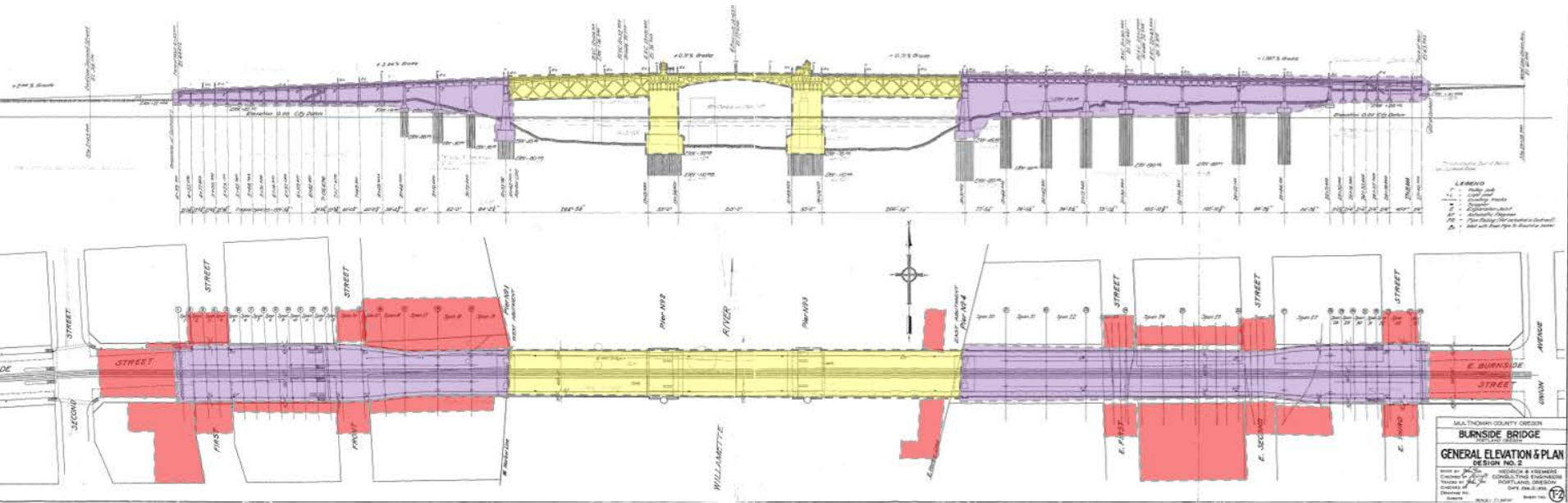


 = EWP1: Bridge Demolition / Removal Area

# How will the Project be Constructed?

... using a series of Construction Packages

## Work Package 2: On-Land Demolition, Site Prep, & Temp Features



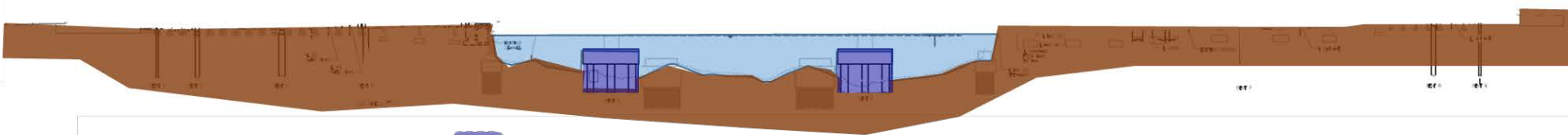
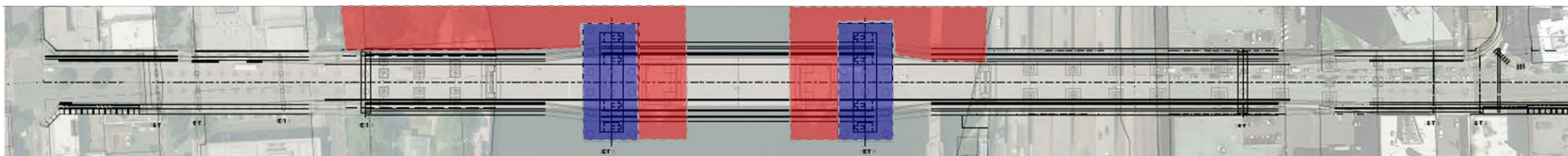
- = EWP1: Bridge Demolition / Removal Area
- = EWP2: Bridge Demolition / Removal Area
- = EWP2: Temporary Facility Construction





# How will the Project be Constructed?

... using a series of Construction Packages

## Work Package 3: In-water Bridge Foundation & Temp Construction



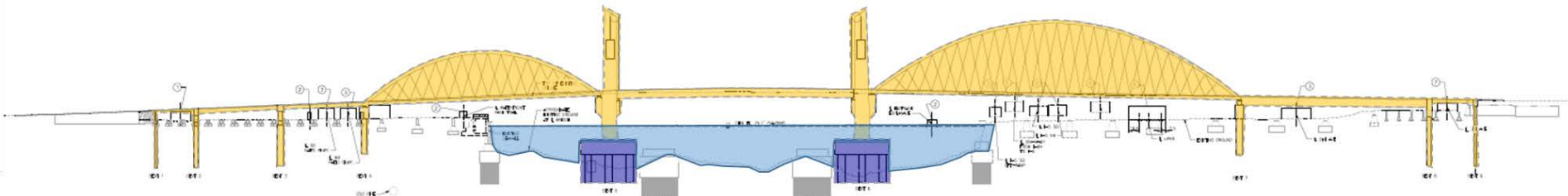
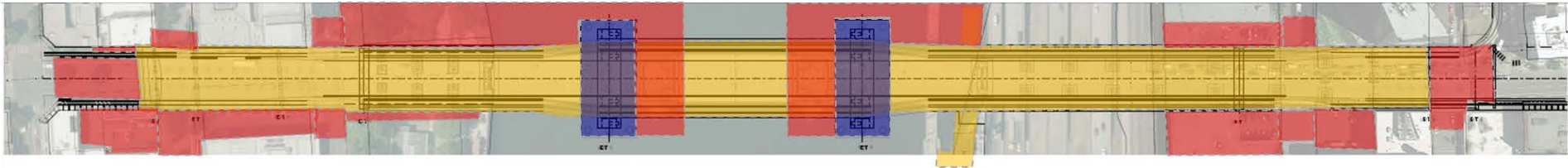
-  = EWP3: In-water Bridge Foundation Construction
-  = EWP3: Temporary Facility Construction





# How will the Project be Constructed?

... using a series of Construction Packages

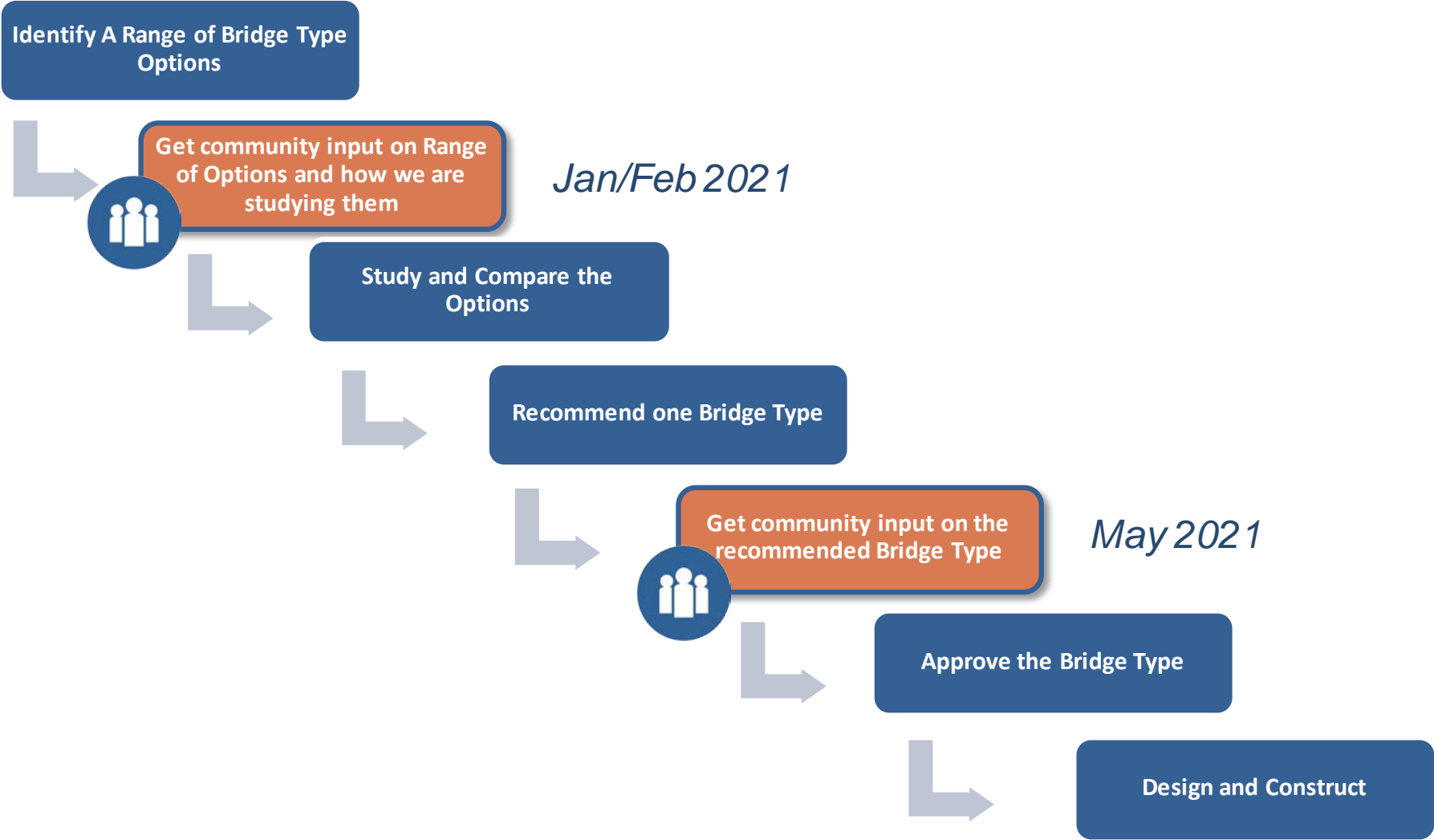
## Work Package 4: All Other Construction



-  = EWP3: In-water Bridge Foundation Construction
-  = Main Construction Package: All Other Construction



# Bridge Type Selection Process



# Land Use Reviews



# Land Use Reviews

<b>Early Work Package 1 In-Water Demolition</b>	<ul style="list-style-type: none"> <li>• Type IV Demolition Review for the Bridge</li> <li>• Type II Adjustment to requirement that a permit for a new building on the site be issued prior to, or concurrent with, the demolition permit</li> <li>• Type IIx River Review for dredging</li> </ul>
<b>Early Work Package 2 On Land Preparation</b>	<ul style="list-style-type: none"> <li>• Possible Type II Historic Resource Review for potential alteration to basement of Portland Rescue Mission building (contributing structure in Historic District)</li> <li>• Possible Type II Adjustment to site restoration standard for Saturday Market Administrative building (non-contributing structure in Historic District)</li> </ul>
<b>Early Work Package 3 In Water Foundation</b>	<ul style="list-style-type: none"> <li>• Type IIx River Review for in water foundations</li> <li>• Possible Type II Adjustment (if needed) [NOTE: DARs would be held with the Landmarks Commission and Design Commission regarding the design of the bridge and compatibility with adjacent development]</li> </ul>
<b>Final Work Package Main Construction</b>	<ul style="list-style-type: none"> <li>• Type III Design Review for new bridge (design details)</li> <li>• Type III Historic Resource Review for new bridge elements within the Historic District (design details)</li> <li>• Modifications (if needed)</li> </ul>

# Land Use Reviews

## Upcoming dates

Date	Activities
Dec 2020	Briefing with Landmarks Commission and Design Commission
Feb 2021	Joint DAR (or briefing) Range of Bridge Types and Evaluation Criteria
Mar 2021	City Council approval of preferred alternative
May 2021	Joint DAR on Bridge Type
<b>Potential Schedule for Early Work Package 1 – In-water Demolition</b>	
Jun 2021	Pre-application conference
Sep 2021	DAR (or briefing) with Landmarks Commission regarding Type IV application
Dec 2021	DAR (or briefing) with Landmarks Commission follow up on Type IV application (if needed)
Apr 2022	Submit application for concurrent review of: <ul style="list-style-type: none"><li>• Type IV Demolition Review to demolish a Historic Landmark</li><li>• Type II Adjustment to obtain demolition permit in advance of building permit</li></ul>
Aug 2022	Landmarks Commission Hearing
Sep 2022	City Council Hearing
Nov 2022	Apply for Permits including demolition permit
Feb 2023	Permits Issued
Spring 2023	Work begins during in-water work window



# Next Steps



## 2020

- **December 17:** Design Commission Briefing

## 2021

- **January:** Publish Draft Environmental Impact Statement
- **January/February:** Outreach on range of bridge types and evaluation criteria
- **March:** City Council Meeting to approve Preferred Alternative
- **April:** Joint DAR on recommended Bridge Type
- **June:** Policy Group approval of recommended Bridge Type



# Questions?

