



# Senior Agency Staff Group Meeting

Department of Community Services  
Transportation Division

April 11, 2018

# Agenda

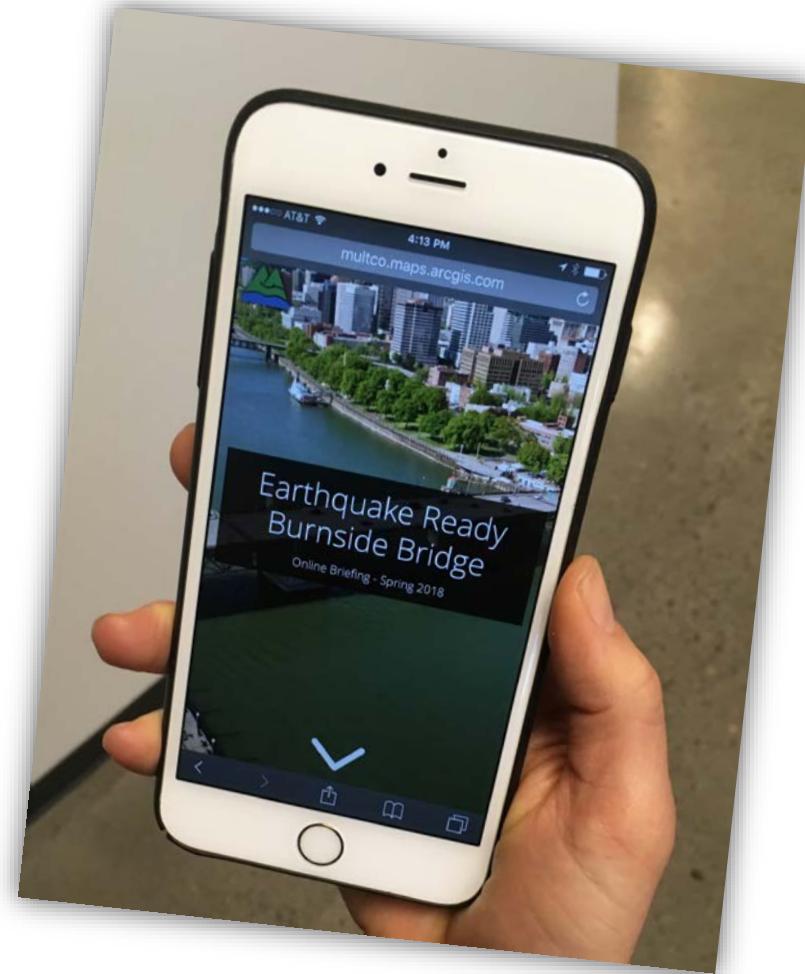
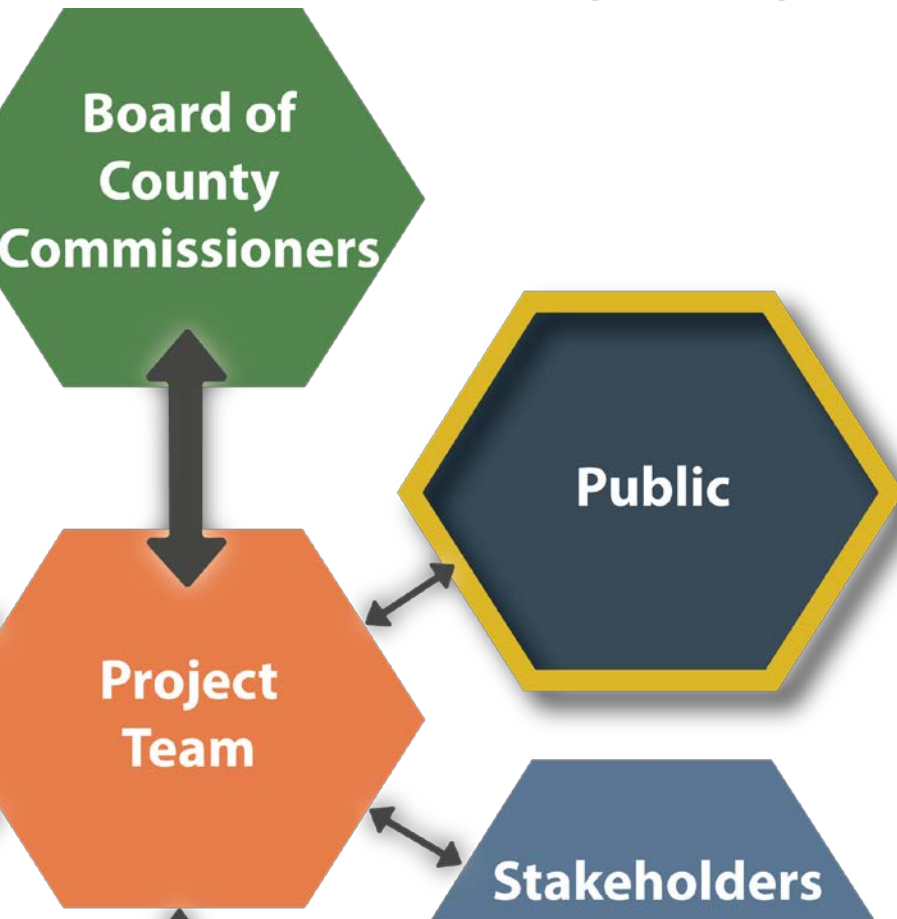
1. Project Update
2. Project Milestones
3. Options Evaluation
4. Next Steps
5. Closing Remarks



# 1. Project Update

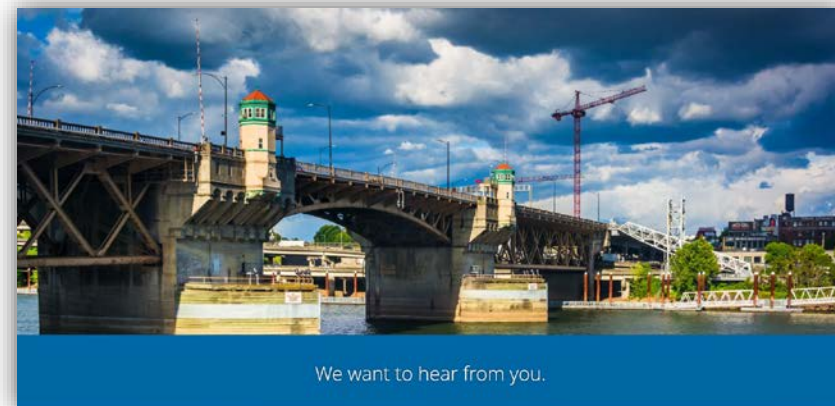
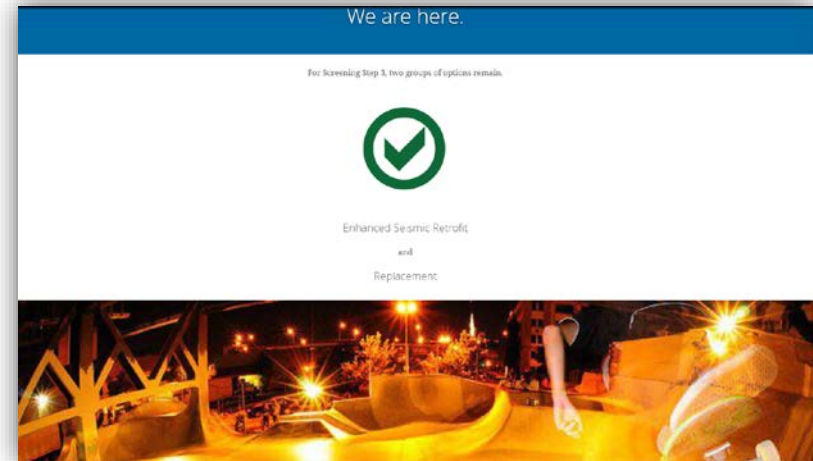
## Public Outreach

### ➤ Online Briefing



# 1. Project Update

## Public Outreach – Online Briefing





# 1. Project Update

Online Briefing – What we are hearing...



# 1. Project Update

## Online Briefing – What we are hearing...

What you would like us to consider as we evaluate options further...

***“Efficiency. Which plan can best be completed in the shortest amount of time.”***

***“I would like to see world class pedestrian and cycle connections continue to remain one of the pillars of this project.”***

***“Make sure that we have a bridge that can withstand a major earthquake and allow emergency responses to go between downtown and the east side.”***



# 1. Project Update

## Online Briefing – What we are hearing...

Is there anything else we should know...

***“Good choices so far.  
Move forward quickly.”***

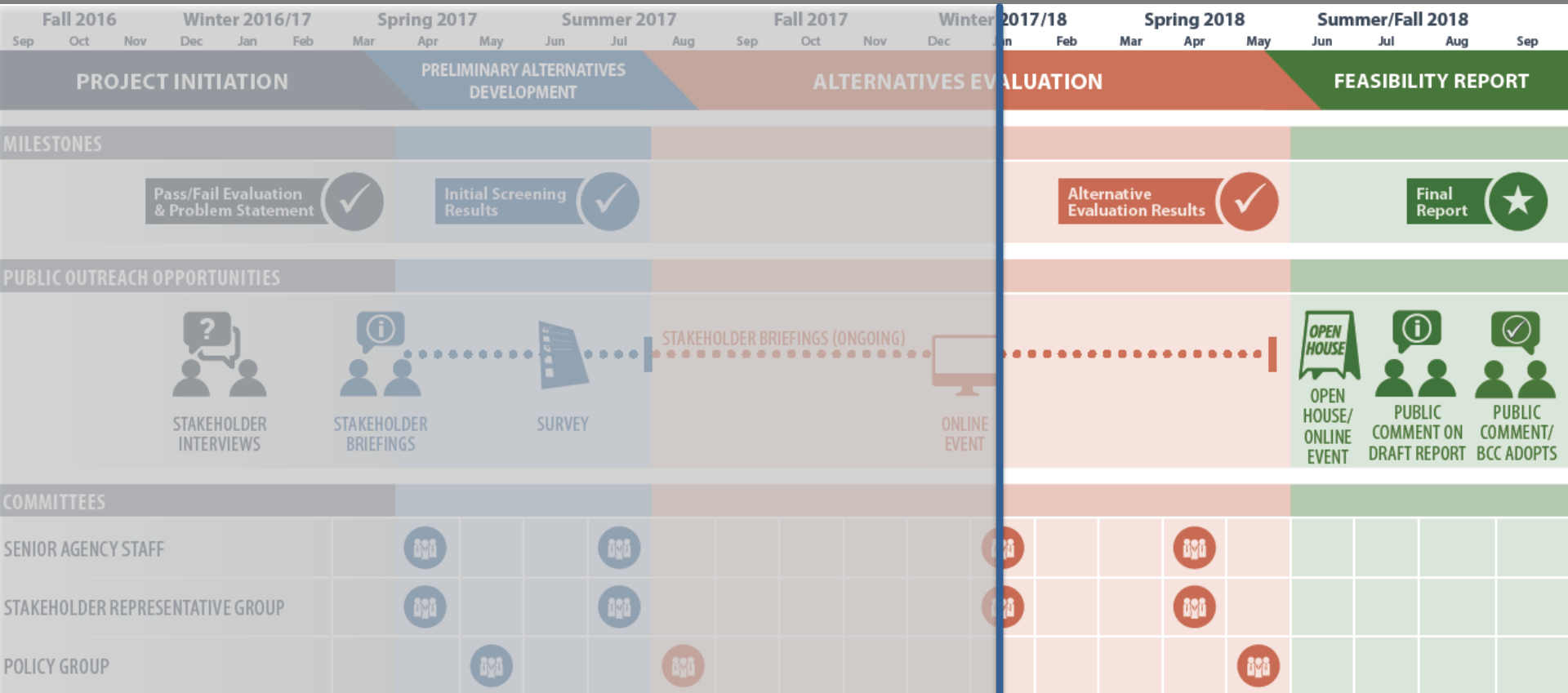
***“Re-doing the bridge will impact an area that serves a large portion of the houseless population in Portland. That impact must be mitigated through careful advance planning and appropriate funding levels.”***

***“Build it once, build it right. If we have the technology to construct a seismically stable bridge, build/reconstruct one that will last a century. If that technology is still 30 years out, build/reconstruct a bridge that will last a half-century with plans to fix it better later.”***



# 2. Project Milestones

## Where we left off

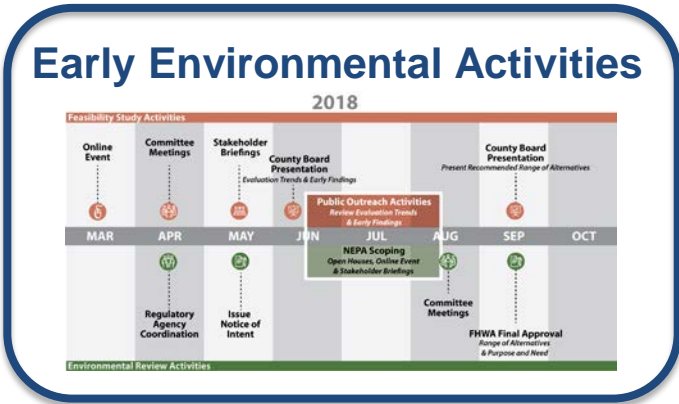


We were last here





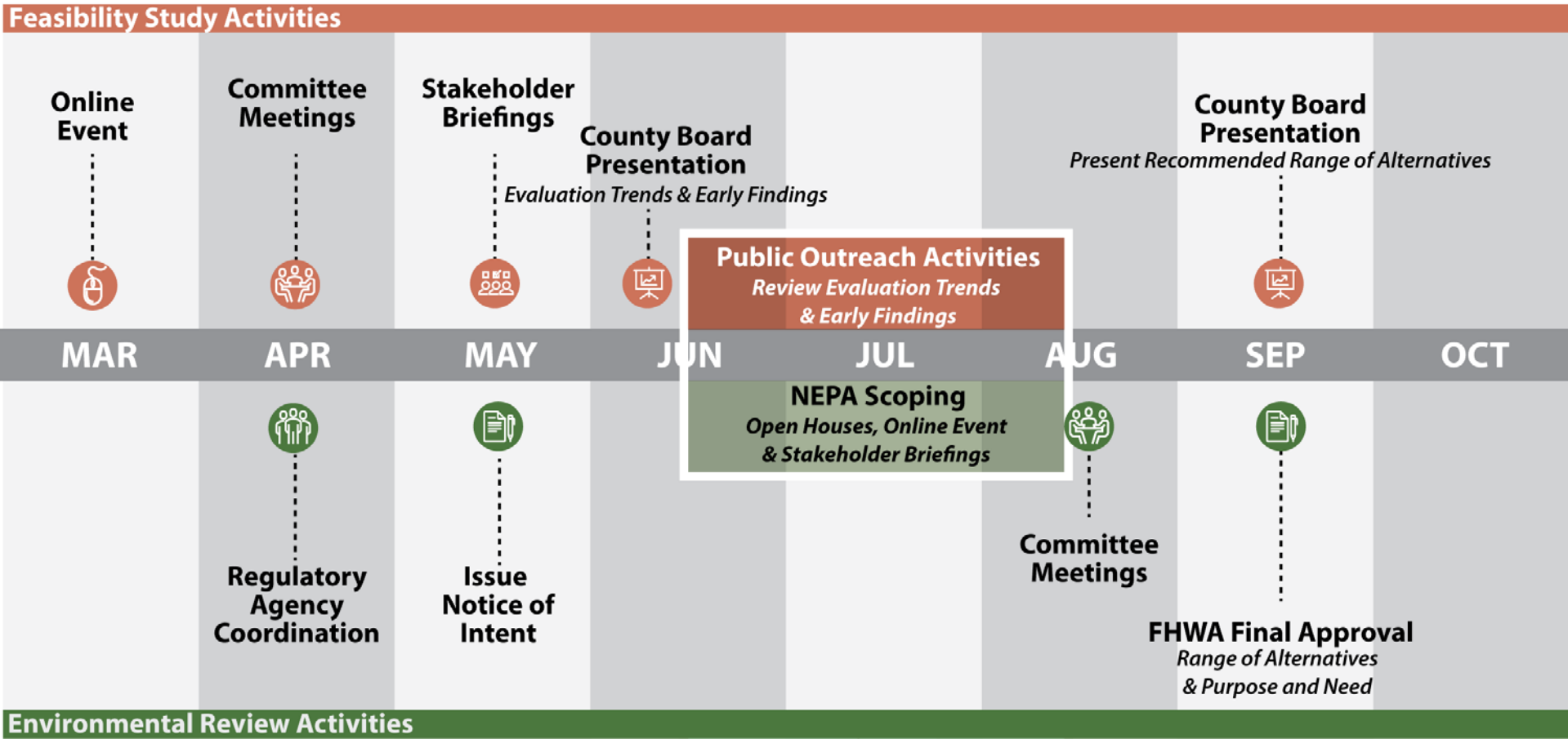
# 2. Project Milestones



# 2. Project Milestones

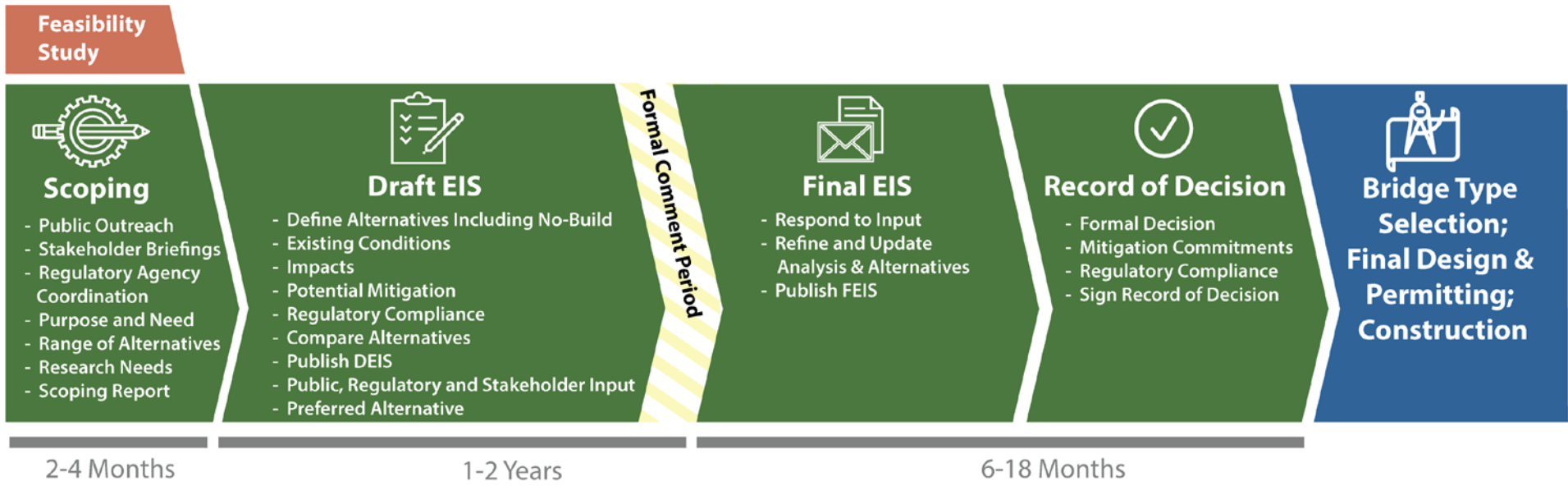
## Early Environmental Review Activities

2018



# 2. Project Milestones

## National Environmental Policy Act (NEPA) Process



# 2. Project Milestones

## Purpose and Need

- Plays a critical role in NEPA compliance
- Defines “reasonable” alternatives
- Benchmark for other federal environmental regulations
- Developed from draft Problem Statement





# 3. Options Evaluation

## SCREENING STEPS

1

Each option was screened against the core requirements of seismic resiliency, emergency response, and compatibility with major infrastructure.

2

Each remaining option was evaluated on how well it functioned immediately after an earthquake in addition to everyday use.

3

Each remaining option is being further evaluated for its performance in six key categories:

## FINAL REPORT

FALL 2018

The options that pass through these three screening steps will be published in a final report.

## OPTION GROUPS

### No Build

Maintain existing bridge as-is.  
*These options are not seismically resilient or cannot support emergency response.*

### Seismic Retrofit

Upgrade the existing bridge.  
*A full seismic retrofit of the bridge is not feasible due to significant impacts to I-5 during construction.*

### Enhanced Seismic Retrofit

Retrofit most of the existing bridge, but replace the spans over I-5 and the railroad.

### Replacement

Build a new crossing such as a high fixed bridge, low movable bridge, twin bridges or a tunnel.

### Enhance Another Bridge

Retrofit or replace a different bridge across the Willamette River.  
*Other bridges do not provide a rapid and reliable connection to the Burnside lifeline route after an earthquake.*



## We are here.

- SEISMIC RESILIENCY**  
Support reliable and rapid emergency response after an earthquake.
- NON-MOTORIZED TRANSPORTATION**  
Support access and safety for bicyclists, pedestrians and people with disabilities.
- CONNECTIVITY**  
Support street system integration and function for all modes.
- EQUITY**  
Minimize adverse impacts to historically marginalized communities and promote transportation equity.
- BUILT ENVIRONMENT**  
Promote land use compatibility and minimize impacts to parks and historic resources.
- FINANCIAL STEWARDSHIP**  
Ensure public funds are invested wisely.



## REMAINING OPTIONS

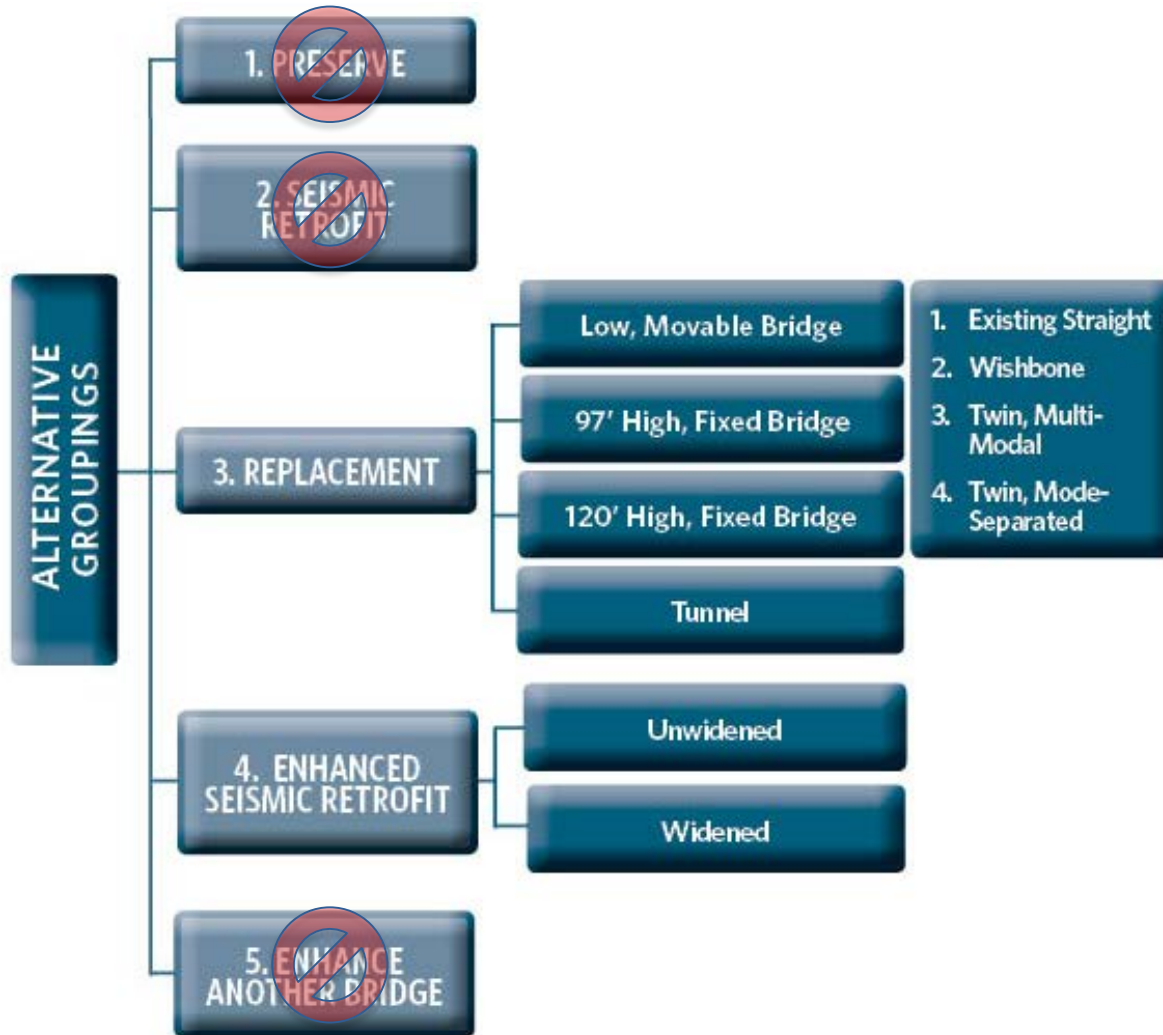
A draft of the final report will be available for public comment in Summer 2018.

The Multnomah County Board of Commissioners will make the final decision on which options will advance to environmental review.



# 3. Options Evaluation

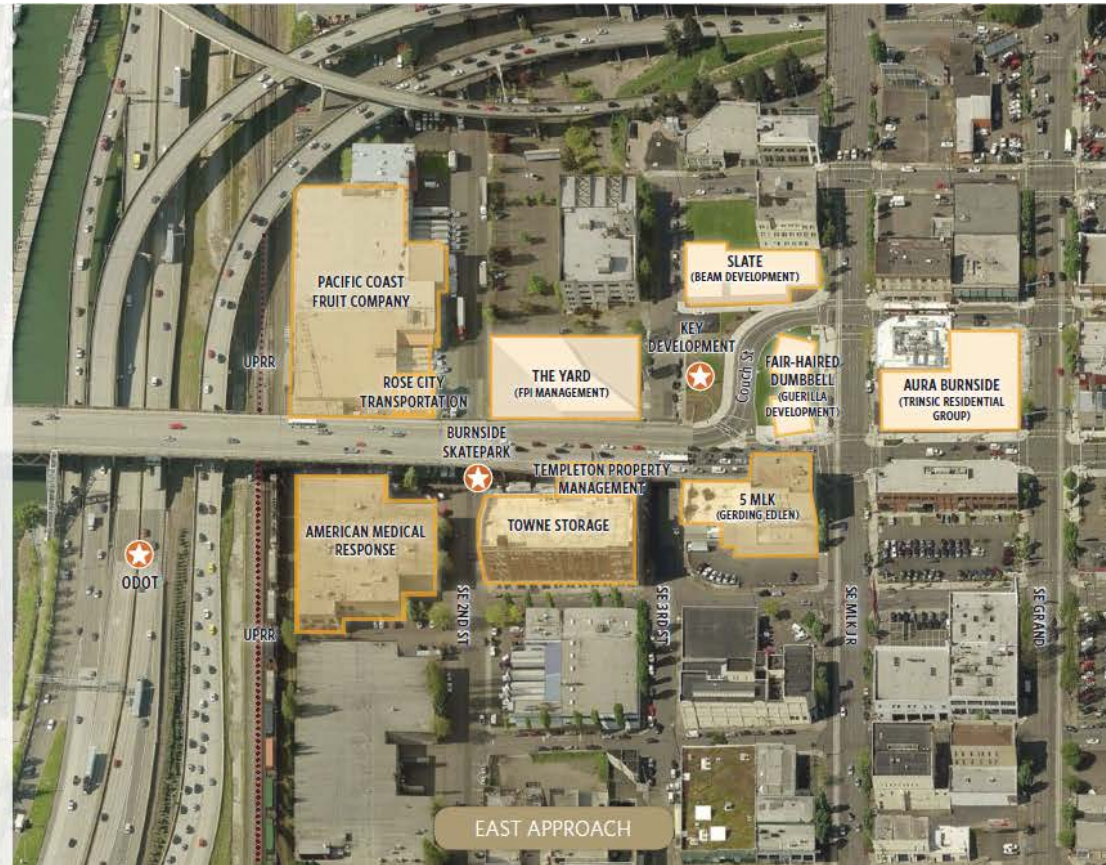
## Remaining Alternatives





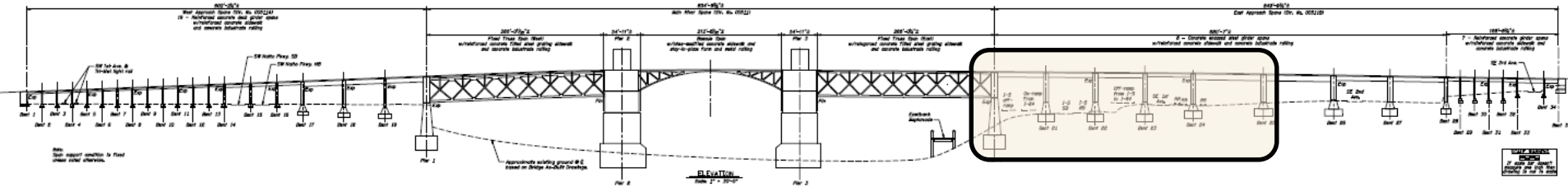
# 3. Options Evaluation

## Project Context



# 3. Options Evaluation

## Enhanced Seismic Retrofit Options



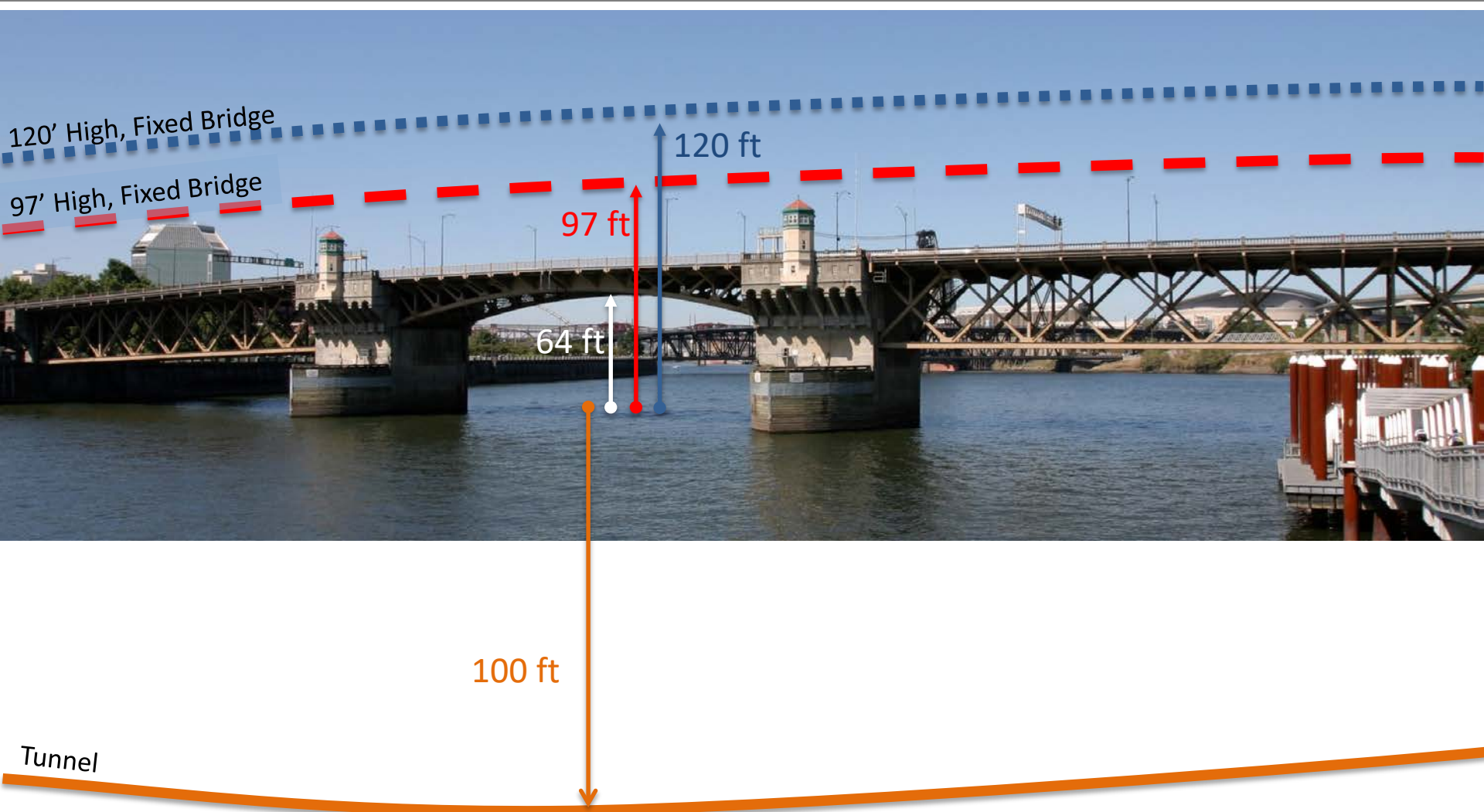
Photos of sections of bridge next to I-5





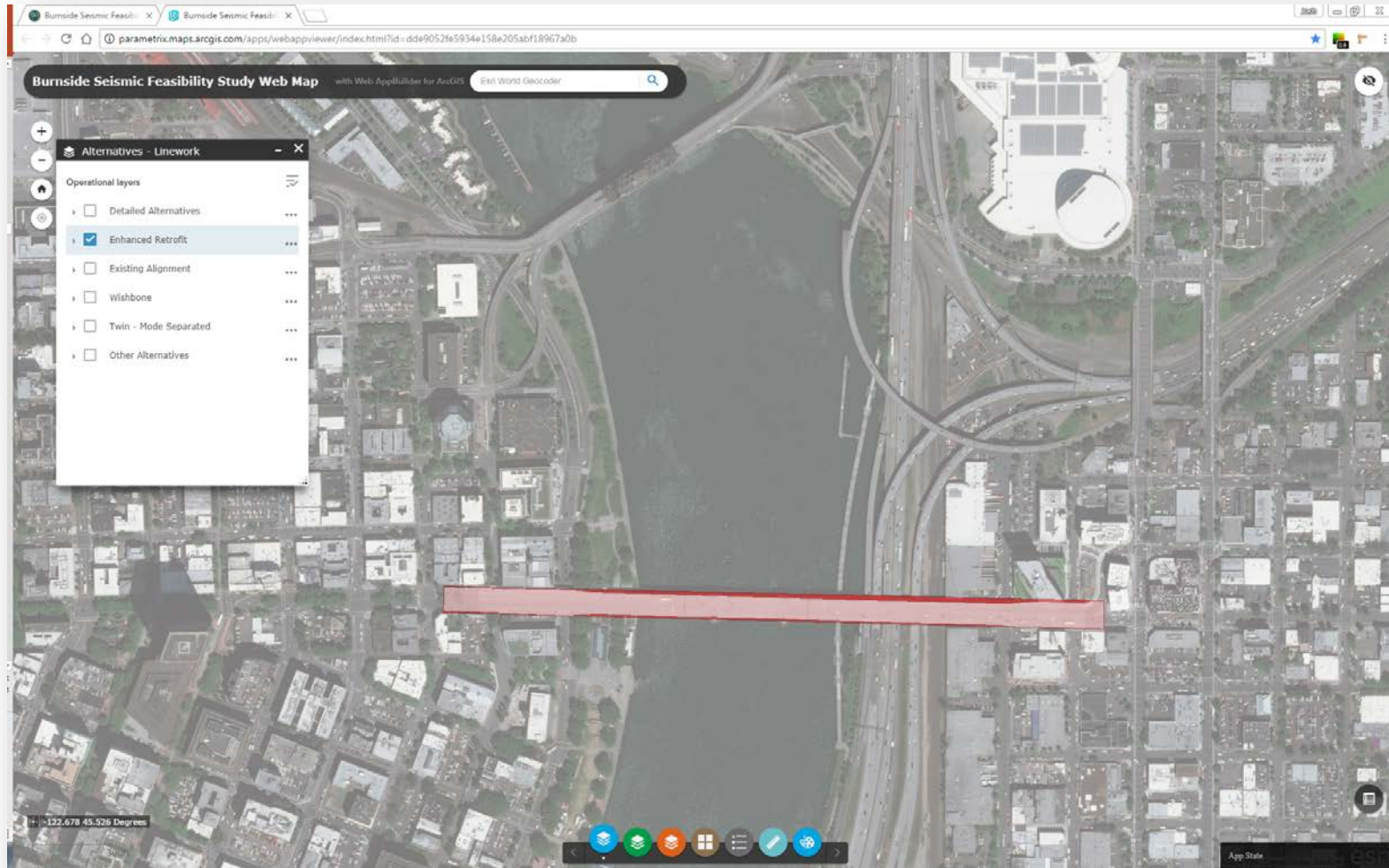
# 3. Options Evaluation

## Elevations



# 3. Options Evaluation

## Replacement Options (see GIS tool)

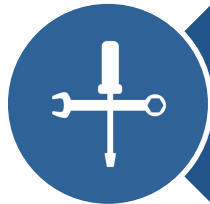


# 3. Options Evaluation

## Guiding Principles



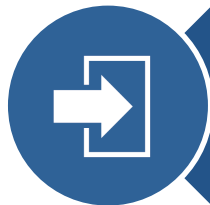
Measurable at the level of design and information that will be available in this step



Help differentiate alternatives





Reflect input received to date



Narrow range of crossing options to be carried forward into an environmental impact statement

# 3. Options Evaluation

## Screening Criteria

-  **SEISMIC RESILIENCY**  
Support reliable and rapid emergency response after an earthquake.
-  **NON-MOTORIZED TRANSPORTATION**  
Support access and safety for bicyclists, pedestrians and people with disabilities.
-  **CONNECTIVITY**  
Support street system integration and function for all modes.
-  **EQUITY**  
Minimize adverse impacts to historically marginalized communities and promote transportation equity.
-  **BUILT ENVIRONMENT**  
Promote land use compatibility and minimize impacts to parks and historic resources.
-  **FINANCIAL STEWARDSHIP**  
Ensure public funds are invested wisely.

## Scoring



**HIGH**



**MEDIUM**



**LOW**










# 3. Options Evaluation

## Seismic Resiliency

 **High:** lows, enhanced retrofits

 **Low:** 120s, twins, 97s, tunnel

Measures:

- Risk that evacuation and emergency response will be blocked by:
  - URM collapse
  - Vehicle crashes

		SEISMIC RESILIENCY	
		Unreinforced Masonry Risk	Disabled Vehicles Risk
LM	Low Existing Alignment (3a-1d)	●	●
LM	Low Northeast Wishbone (3a-2b)	●	●
ER	Enhanced Seismic Retrofit, No widening (4b1)	●	●
ER	Enhanced Seismic Retrofit, Widened (4b2)	●	●
LM	Low Southeast Wishbone (3a-3b1)	●	●
97F	97' High Existing Alignment (3b-1b1)	◐	●
LM	Low North Twin - Mode Separated (3a-5d1)	●	◐
LM	Low South Twin - Mode Separated (3a-7d1)	●	◐
LM	Low Stacked (3a-8d)	●	◐
97F	97' High South Twin - Mode Separated (3b-7d1)	◐	●
97F	97' High Northeast Wishbone (3b-2b1)	◐	◐
97F	97' High Southeast Wishbone (3b-3b1)	◐	◐
97F	97' High North Twin - Mode Separated (3b-5d1)	◐	●
LM	Low Double Wishbone (3a-9d)	○	◐
LM	Low North Twin (3a-4d1)	○	◐
97F	97' High North Twin (3b-4d1)	○	◐
120F	120' High South Twin - Mode Separated (3b-7d2)	◐	○
LM	Low South Twin (3a-6d1)	○	◐
T	Tunnel - Mode Separated (3c-1a)	●	○
120F	120' High North Twin - Mode Separated (3b-5d2)	◐	○
97F	97' High South Twin (3b-6d1)	○	◐
120F	120' High Existing Alignment (3b-1b2)	◐	○
120F	120' High Southeast Wishbone (3b-3b2)	◐	○
120F	120' High Northeast Wishbone (3b-2b2)	○	○
120F	120' High North Twin (3b-4d2)	○	○
120F	120' High South Twin (3b-6d2)	○	○







# 3. Options Evaluation

## Seismic Resiliency

○ tunnel

Differentiator:

- Crashes more difficult to clear from tunnel





# 3. Options Evaluation

## Non-Motorized Transportation

 lows, enhanced retrofits, mode separated

 120s, 97s

### Measures:

- Length and height of grade
- Connectivity to bike network:
  - Existing designations
  - Planned designations
- Personal Security

		Ease of Ped + Bike Use	Safe Ped + Bike Connections	Personal Security for Ped + Bikes
LM	Low Existing Alignment (3a-1d)	●	●	●
LM	Low Northeast Wishbone (3a-2b)	●	●	●
ER	Enhanced Seismic Retrofit, No widening (4b1)	●	●	●
ER	Enhanced Seismic Retrofit, Widened (4b2)	●	●	●
LM	Low Southeast Wishbone (3a-3b1)	●	●	●
97F	97' High Existing Alignment (3b-1b1)	○	○	●
LM	Low North Twin - Mode Separated (3a-5d1)	●	●	◐
LM	Low South Twin - Mode Separated (3a-7d1)	●	●	◐
LM	Low Stacked (3a-8d)	●	○	○
97F	97' High South Twin - Mode Separated (3b-7d1)	○	●	◐
97F	97' High Northeast Wishbone (3b-2b1)	○	○	●
97F	97' High Southeast Wishbone (3b-3b1)	○	○	●
97F	97' High North Twin - Mode Separated (3b-5d1)	○	●	○
LM	Low Double Wishbone (3a-9d)	●	◐	●
LM	Low North Twin (3a-4d1)	●	◐	●
97F	97' High North Twin (3b-4d1)	○	○	●
120F	120' High South Twin - Mode Separated (3b-7d2)	◐	●	○
LM	Low South Twin (3a-6d1)	●	●	●
T	Tunnel - Mode Separated (3c-1a)	◐	●	◐
120F	120' High North Twin - Mode Separated (3b-5d2)	◐	●	○
97F	97' High South Twin (3b-6d1)	○	○	●
120F	120' High Existing Alignment (3b-1b2)	○	○	●
120F	120' High Southeast Wishbone (3b-3b2)	○	○	●
120F	120' High Northeast Wishbone (3b-2b2)	○	○	●
120F	120' High North Twin (3b-4d2)	○	◐	●
120F	120' High South Twin (3b-6d2)	○	○	●



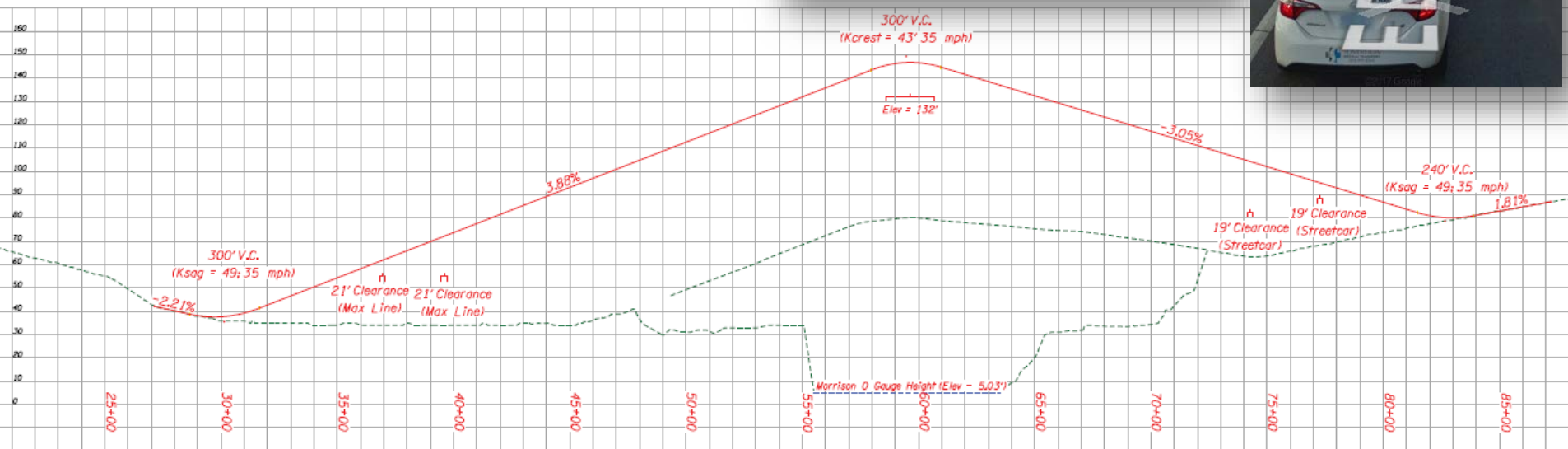
# 3. Options Evaluation

## Non-Motorized Transportation: Bike/Ped Grade & Connections

120s, 97s

Differentiators:

- Taller bridges have longer grades and bypass more bike connections




# 3. Options Evaluation

## CONNECTIVITY

Street Network Connection  
 Crossing Safety and Convenience  
 Moveable Bridge (Periodic Delay)

## Connectivity


















































































 low existing

 120s, 97s, tunnel, twins, southeast wishbone

### Measures:

- Number of streets closed and bypassed
- Grade length and height
- Non-traditional intersections and curves

LM	Low Existing Alignment (3a-1d)
LM	Low Northeast Wishbone (3a-2b)
ER	Enhanced Seismic Retrofit, No widening (4b1)
ER	Enhanced Seismic Retrofit, Widened (4b2)
LM	Low Southeast Wishbone (3a-3b1)
97F	97' High Existing Alignment (3b-1b1)
LM	Low North Twin - Mode Separated (3a-5d1)
LM	Low South Twin - Mode Separated (3a-7d1)
LM	Low Stacked (3a-8d)
97F	97' High South Twin - Mode Separated (3b-7d1)
97F	97' High Northeast Wishbone (3b-2b1)
97F	97' High Southeast Wishbone (3b-3b1)
97F	97' High North Twin - Mode Separated (3b-5d1)
LM	Low Double Wishbone (3a-9d)
LM	Low North Twin (3a-4d1)
97F	97' High North Twin (3b-4d1)
120F	120' High South Twin - Mode Separated (3b-7d2)
LM	Low South Twin (3a-6d1)
T	Tunnel - Mode Separated (3c-1a)
120F	120' High North Twin - Mode Separated (3b-5d2)
97F	97' High South Twin (3b-6d1)
120F	120' High Existing Alignment (3b-1b2)
120F	120' High Southeast Wishbone (3b-3b2)
120F	120' High Northeast Wishbone (3b-2b2)
120F	120' High North Twin (3b-4d2)
120F	120' High South Twin (3b-6d2)





# 3. Options Evaluation

**Connectivity:** Street Connectivity, Crossing Safety & Convenience

○ 120s, 97s

Differentiators:

- Bypass/close streets
- Longer grades affect vehicle safety



# 3. Options Evaluation

**Connectivity:** Street Connectivity, Crossing Safety & Convenience

○ twins, wishbones

Differentiators:

- Bypass/close streets
- Curves/intersections







# 3. Options Evaluation


EQUITY

Social Service Impacts

Low Income Housing Impacts

## Equity

 lows, enhanced retrofits

 120s, tunnel

### Measures:

- Existing low income housing displacements
- Loss of potential future low income housing

LM	Low Existing Alignment (3a-1d)	●	●
LM	Low Northeast Wishbone (3a-2b)	●	●
ER	Enhanced Seismic Retrofit, No widening (4b1)	●	●
ER	Enhanced Seismic Retrofit, Widened (4b2)	●	●
LM	Low Southeast Wishbone (3a-3b1)	●	●
97F	97' High Existing Alignment (3b-1b1)	◐	●
LM	Low North Twin - Mode Separated (3a-5d1)	●	●
LM	Low South Twin - Mode Separated (3a-7d1)	◐	●
LM	Low Stacked (3a-8d)	◐	●
97F	97' High South Twin - Mode Separated (3b-7d1)	◐	●
97F	97' High Northeast Wishbone (3b-2b1)	◐	●
97F	97' High Southeast Wishbone (3b-3b1)	◐	●
97F	97' High North Twin - Mode Separated (3b-5d1)	◐	●
LM	Low Double Wishbone (3a-9d)	◐	●
LM	Low North Twin (3a-4d1)	●	●
97F	97' High North Twin (3b-4d1)	◐	●
120F	120' High South Twin - Mode Separated (3b-7d2)	◐	●
LM	Low South Twin (3a-6d1)	◐	◐
T	Tunnel - Mode Separated (3c-1a)	●	○
120F	120' High North Twin - Mode Separated (3b-5d2)	◐	●
97F	97' High South Twin (3b-6d1)	◐	◐
120F	120' High Existing Alignment (3b-1b2)	○	○
120F	120' High Southeast Wishbone (3b-3b2)	○	○
120F	120' High Northeast Wishbone (3b-2b2)	○	○
120F	120' High North Twin (3b-4d2)	○	○
120F	120' High South Twin (3b-6d2)	○	○



# 3. Options Evaluation

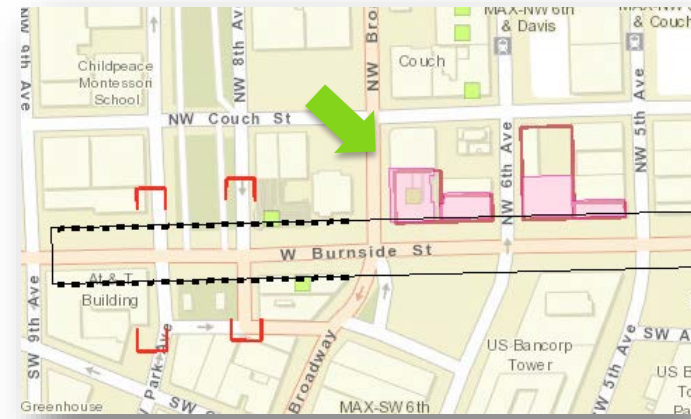
## Equity: Low Income Housing

● lows, enhanced retrofits

○ 120s, tunnel

## Differentiators:

- Most 120s displace Broadway Hotel with 105 low income units



- Tunnel portals have highest displacements (future housing loss)





# 3. Options Evaluation

EQUITY

Social Service Impacts  
Low Income Housing Impacts

## Equity: Social Services

 lows, enhanced retrofits, tunnel

 120s

### Measures:

- Displacement of and access impacts to Social Service providers

		Social Service Impacts	Low Income Housing Impacts
LM	Low Existing Alignment (3a-1d)	●	●
LM	Low Northeast Wishbone (3a-2b)	●	●
ER	Enhanced Seismic Retrofit, No widening (4b1)	●	●
ER	Enhanced Seismic Retrofit, Widened (4b2)	●	●
LM	Low Southeast Wishbone (3a-3b1)	●	●
97F	97' High Existing Alignment (3b-1b1)	◐	●
LM	Low North Twin - Mode Separated (3a-5d1)	●	●
LM	Low South Twin - Mode Separated (3a-7d1)	◐	●
LM	Low Stacked (3a-8d)	◐	●
97F	97' High South Twin - Mode Separated (3b-7d1)	◐	●
97F	97' High Northeast Wishbone (3b-2b1)	◐	●
97F	97' High Southeast Wishbone (3b-3b1)	◐	●
97F	97' High North Twin - Mode Separated (3b-5d1)	◐	●
LM	Low Double Wishbone (3a-9d)	◐	●
LM	Low North Twin (3a-4d1)	●	●
97F	97' High North Twin (3b-4d1)	◐	●
120F	120' High South Twin - Mode Separated (3b-7d2)	◐	●
LM	Low South Twin (3a-6d1)	◐	◐
T	Tunnel - Mode Separated (3c-1a)	●	○
120F	120' High North Twin - Mode Separated (3b-5d2)	◐	●
97F	97' High South Twin (3b-6d1)	◐	◐
120F	120' High Existing Alignment (3b-1b2)	○	○
120F	120' High Southeast Wishbone (3b-3b2)	○	○
120F	120' High Northeast Wishbone (3b-2b2)	○	○
120F	120' High North Twin (3b-4d2)	○	○
120F	120' High South Twin (3b-6d2)	○	○



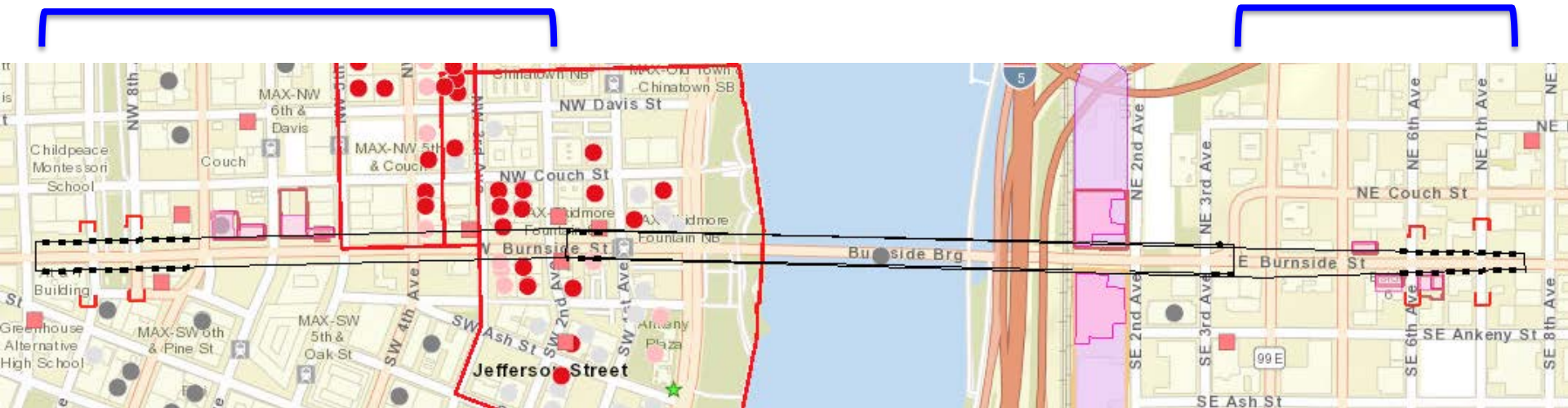
# 3. Options Evaluation

## Equity: Social Services

○ 120s

### Differentiators:

- Longer bridge extension displaces overnight shelter and diminishes access



# 3. Options Evaluation

## BUILT ENVIRONMENT

Visual Impacts to Existing Buildings  
Commercial + Industrial Impact  
Long Term Housing  
Park + Recreation Impact  
Historic Structures + District Impacts

## Built Environment

● lows, enhanced retrofits

○ 120s, 97s, twins, tunnel (commercial)

### Measures:

- Visual and access impacts from new bridges/walls
- Commercial/industrial displacements (# of businesses, employees)
- Historic resource and district impacts

LM	Low Existing Alignment (3a-1d)	●	●	●	●	●
LM	Low Northeast Wishbone (3a-2b)	●	○	●	●	●
ER	Enhanced Seismic Retrofit, No widening (4b1)	●	●	●	◐	●
ER	Enhanced Seismic Retrofit, Widened (4b2)	●	●	●	◐	●
LM	Low Southeast Wishbone (3a-3b1)	●	●	●	●	●
97F	97' High Existing Alignment (3b-1b1)	◐	●	●	○	○
LM	Low North Twin - Mode Separated (3a-5d1)	●	○	●	○	●
LM	Low South Twin - Mode Separated (3a-7d1)	●	●	●	○	●
LM	Low Stacked (3a-8d)	◐	●	●	●	◐
97F	97' High South Twin - Mode Separated (3b-7d1)	◐	●	●	○	○
97F	97' High Northeast Wishbone (3b-2b1)	◐	○	●	●	○
97F	97' High Southeast Wishbone (3b-3b1)	◐	●	●	●	○
97F	97' High North Twin - Mode Separated (3b-5d1)	◐	○	●	○	○
LM	Low Double Wishbone (3a-9d)	○	○	○	●	○
LM	Low North Twin (3a-4d1)	◐	○	○	●	○
97F	97' High North Twin (3b-4d1)	○	○	○	●	○
120F	120' High South Twin - Mode Separated (3b-7d2)	○	●	●	○	○
LM	Low South Twin (3a-6d1)	◐	○	●	●	○
T	Tunnel - Mode Separated (3c-1a)	●	○	○	○	●
120F	120' High North Twin - Mode Separated (3b-5d2)	○	○	●	○	○
97F	97' High South Twin (3b-6d1)	○	○	●	●	○
120F	120' High Existing Alignment (3b-1b2)	○	○	◐	○	○
120F	120' High Southeast Wishbone (3b-3b2)	○	○	●	○	○
120F	120' High Northeast Wishbone (3b-2b2)	○	○	●	○	○
120F	120' High North Twin (3b-4d2)	○	○	○	○	○
120F	120' High South Twin (3b-6d2)	○	○	●	○	○





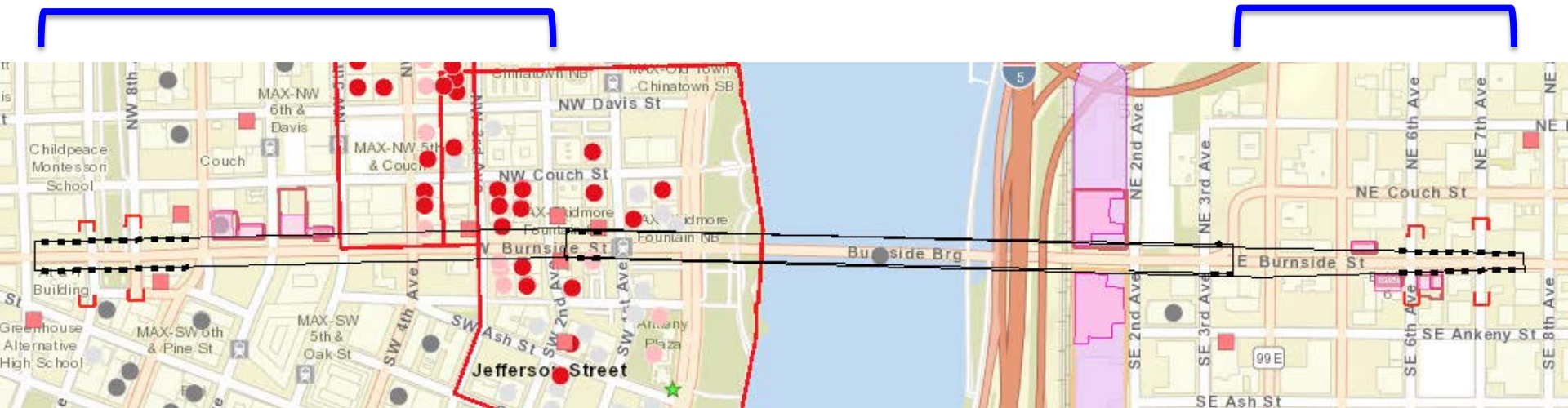
# 3. Options Evaluation

## Built Environment: Visual, Commercial & Historic

○ 120s, 97s

Differentiators:

- 120s extend bridge length west and east
- 97s extend west



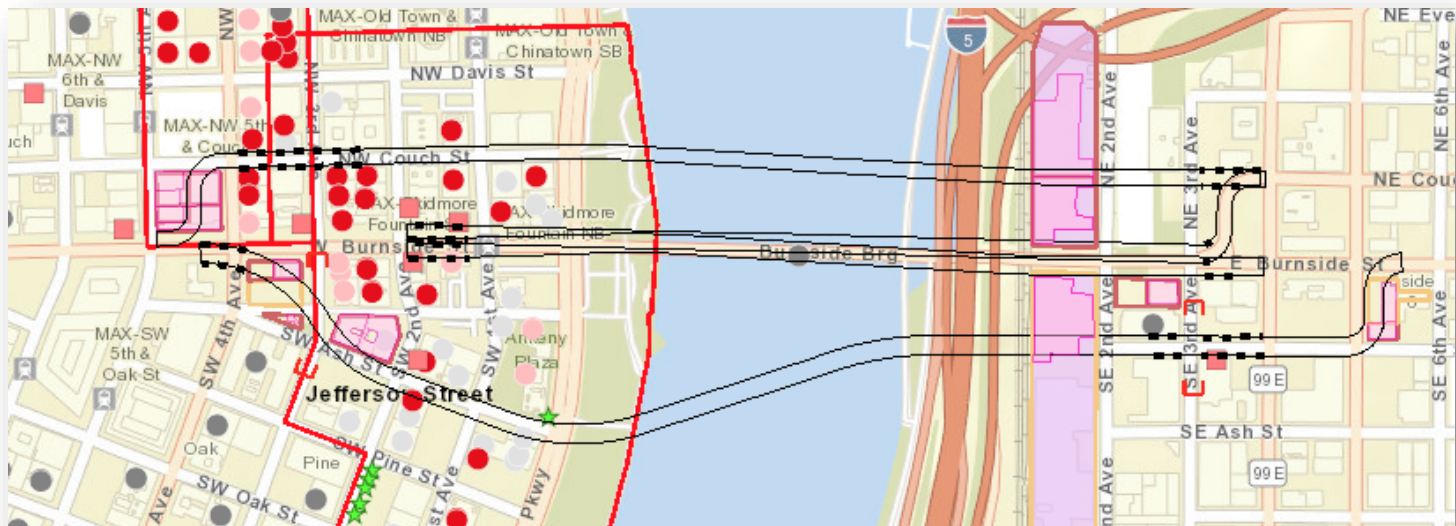
# 3. Options Evaluation

## Built Environment: Visual, Commercial & Historic

○ twins

Differentiator:

- Add new bridges on historic district streets and on east side





# 3. Options Evaluation

**Built Environment:** Visual, Commercial & Historic



# 3. Options Evaluation

## Built Environment: Visual, Commercial & Historic

 tunnel

Differentiator:

- Portals cause highest commercial displacements



# 3. Options Evaluation

## Built Environment: Parks

- lows, enhanced retrofits
- 120s, high mode separated

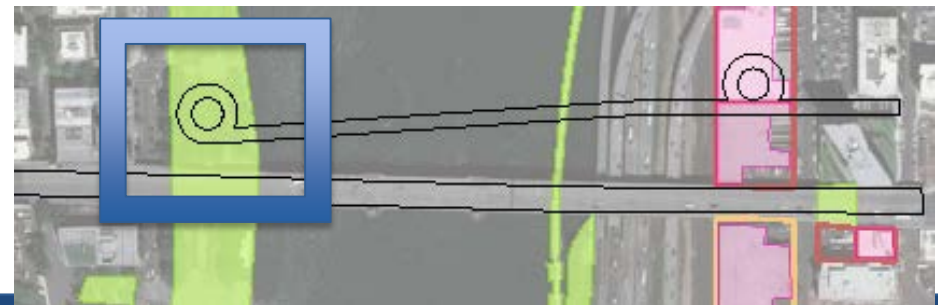
Measures:

- Total area of impact
- Circulation/access impact



Differentiators:

- 120s impact Park Blocks
- High mode separated foot-print in Waterfront Park



# 3. Options Evaluation

## Financial Stewardship

● lows, enhanced retrofit, 97 existing and wishbone alignments

○ tunnel, 120s, twins

### Measures:

- Estimated capital cost
- Estimated maintenance costs

		Capital Cost	Long term Maintenance
LM	Low Existing Alignment (3a-1d)	●	●
LM	Low Northeast Wishbone (3a-2b)	●	●
ER	Enhanced Seismic Retrofit, No widening (4b1)	●	○
ER	Enhanced Seismic Retrofit, Widened (4b2)	●	○
LM	Low Southeast Wishbone (3a-3b1)	●	●
97F	97' High Existing Alignment (3b-1b1)	●	●
LM	Low North Twin - Mode Separated (3a-5d1)	●	○
LM	Low South Twin - Mode Separated (3a-7d1)	●	○
LM	Low Stacked (3a-8d)	●	●
97F	97' High South Twin - Mode Separated (3b-7d1)	●	●
97F	97' High Northeast Wishbone (3b-2b1)	●	●
97F	97' High Southeast Wishbone (3b-3b1)	●	●
97F	97' High North Twin - Mode Separated (3b-5d1)	●	●
LM	Low Double Wishbone (3a-9d)	●	●
LM	Low North Twin (3a-4d1)	○	○
97F	97' High North Twin (3b-4d1)	●	●
120F	120' High South Twin - Mode Separated (3b-7d2)	○	○
LM	Low South Twin (3a-6d1)	●	○
T	Tunnel - Mode Separated (3c-1a)	○	○
120F	120' High North Twin - Mode Separated (3b-5d2)	○	○
97F	97' High South Twin (3b-6d1)	●	●
120F	120' High Existing Alignment (3b-1b2)	○	●
120F	120' High Southeast Wishbone (3b-3b2)	○	●
120F	120' High Northeast Wishbone (3b-2b2)	○	●
120F	120' High North Twin (3b-4d2)	○	○
120F	120' High South Twin (3b-6d2)	○	○





# 3. Options Evaluation

## Financial Stewardship: Cost

 tunnel, 120, twin

### Differentiators:

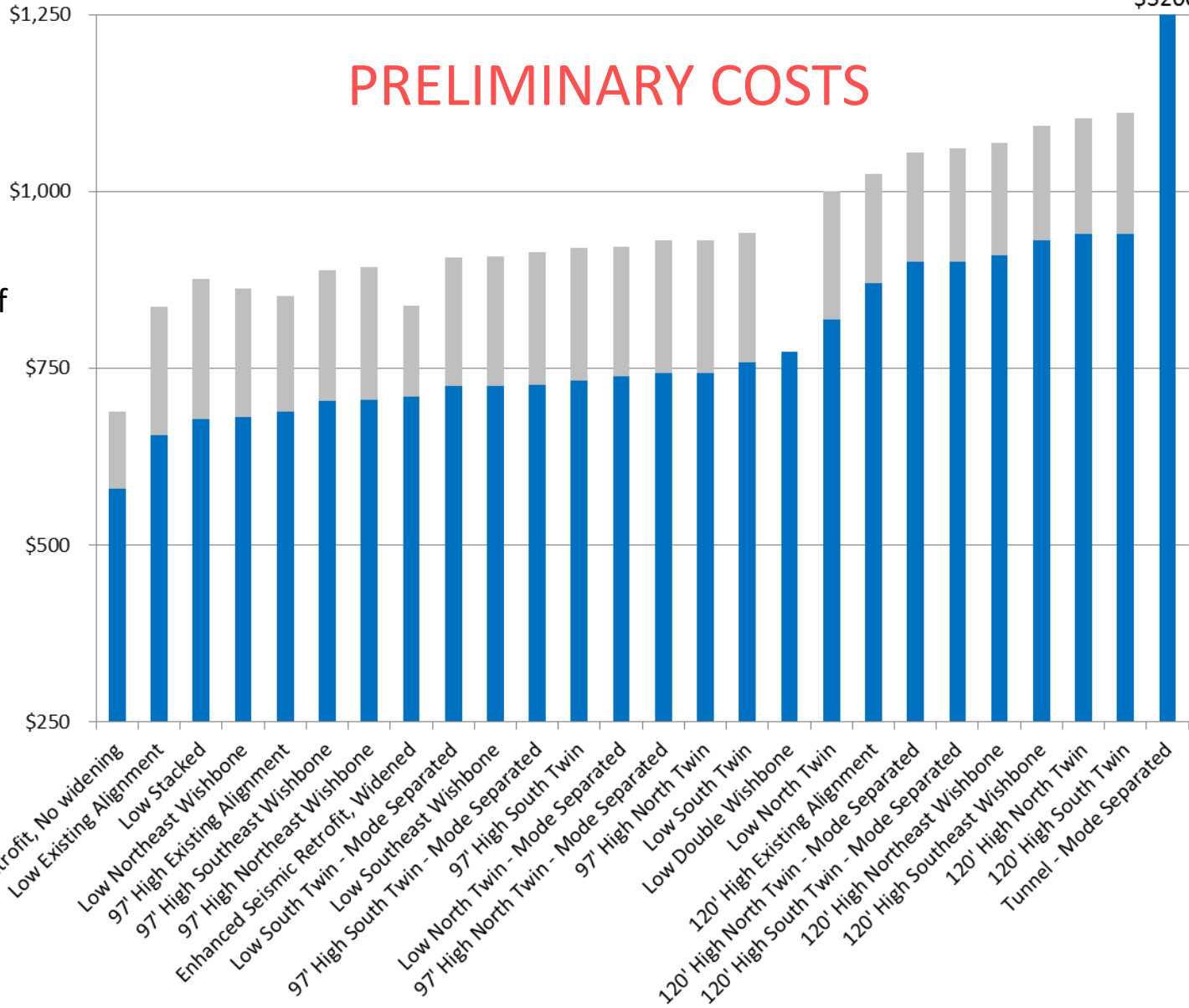
- Tunnel long and costly to build
- Longest bridges and multiple bridges increase cost
- ROW costs higher with tunnel and longer bridges



# Total Project Cost (\$M)

\$1,250

PRELIMINARY COSTS



**Notes:**

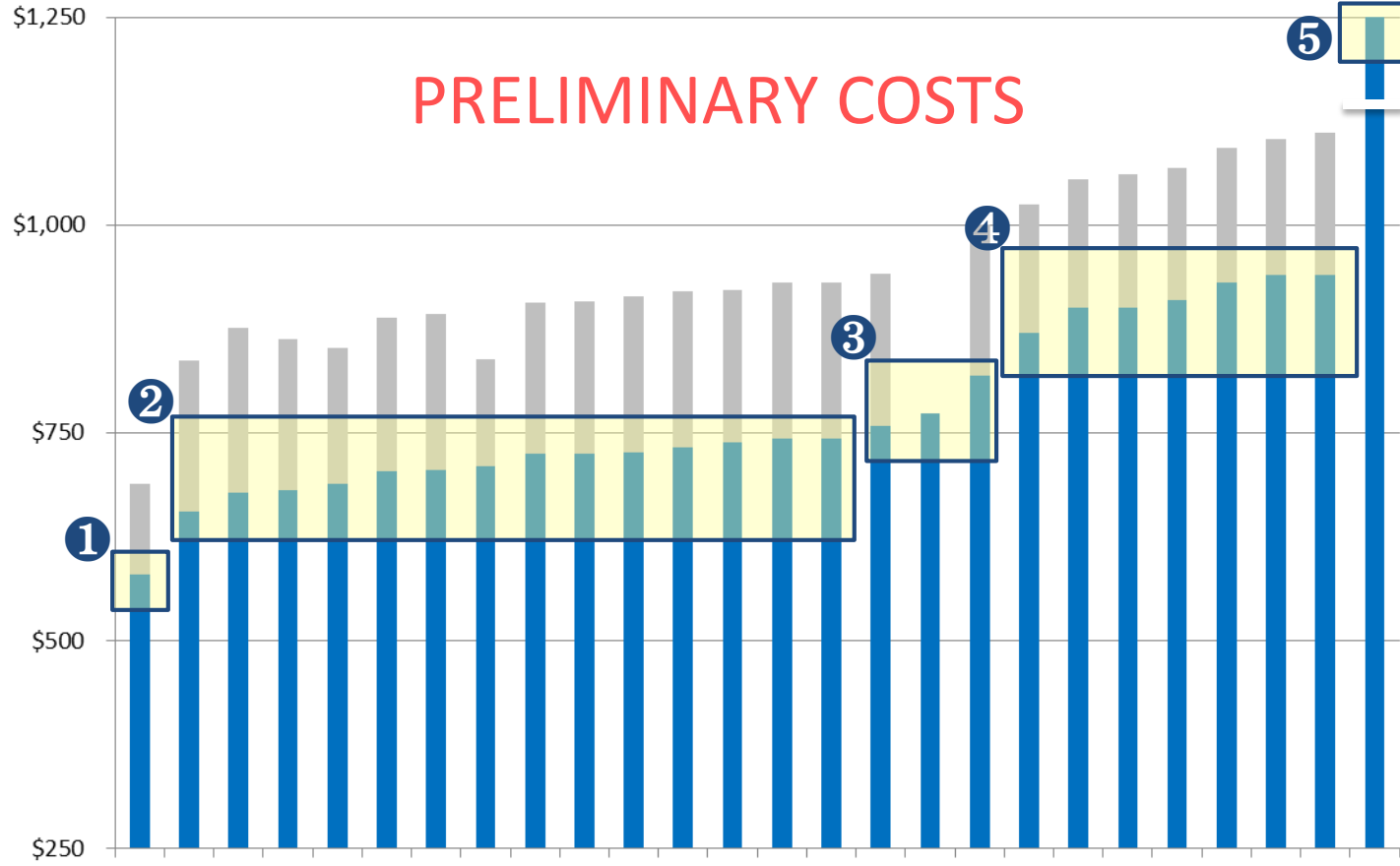
1. Project costs includes NEPA, Design, ROW Acquisition, and Construction phases
2. Project costs are escalated to the year of construction
3. Blue bar: cost if Burnside St is closed to traffic during construction
4. Grey bar: cost if Burnside St is open to traffic during bridge construction



# Total Project Cost (\$M)

PRELIMINARY COSTS

\$3200



**Notes:**

1. Unwidened enhanced retrofit
2. Low movable and 97 ft clearance options
3. Twin alignment and Double wishbone options
4. 120 ft clearance options
5. Tunnel



# 3. Options Evaluation

Feasibility Study Objective: Define the Range of Alternatives for NEPA

What is a “reasonable range” for an environmental study?

- 25 is too many for detailed NEPA analysis
- Eliminate those that perform poorly
- For sub-groups of similar alternatives, advance the better performing (as representative)
- Include a range of types, features and functionality



















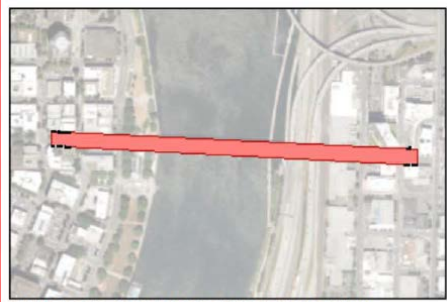


# 3. Options Evaluation

What is rising to the top...

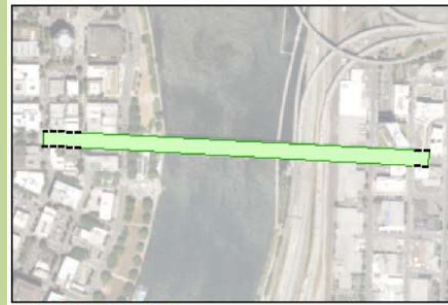
← HIGH FIXED

## Enhanced Seismic Retrofit



ENHANCED SEISMIC RETROFIT - WIDENED

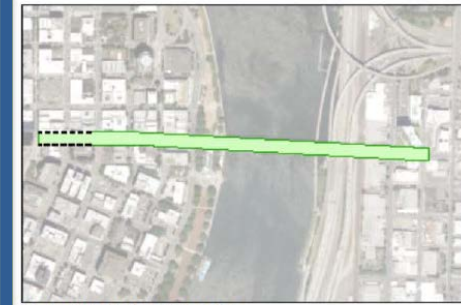
## Replacement: Existing Alignment



MOVABLE BRIDGE

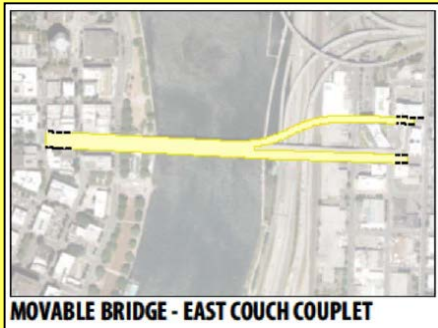


MOVABLE STACKED BRIDGE

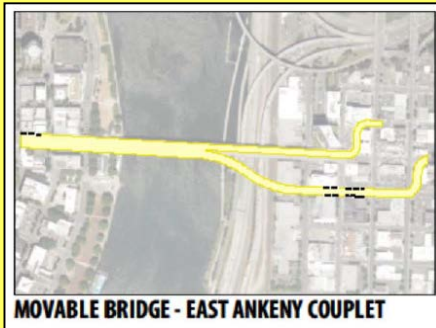


97' HIGH FIXED BRIDGE

## Replacement: Wishbones

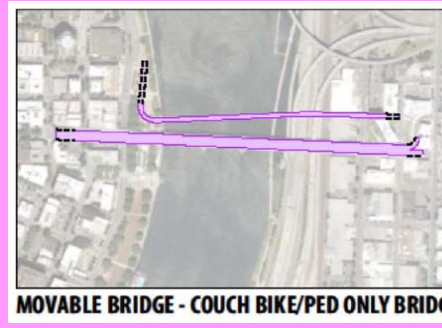


MOVABLE BRIDGE - EAST COUCH COUPLET

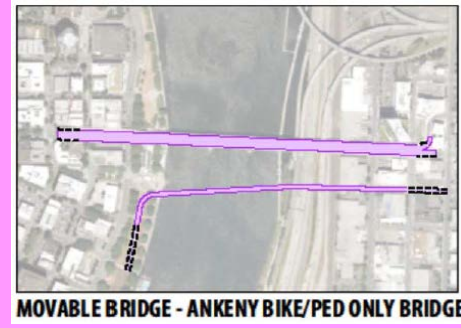


MOVABLE BRIDGE - EAST ANKENY COUPLET

## Replacement: Mode-Separated



MOVABLE BRIDGE - COUCH BIKE/PED ONLY BRIDGE



MOVABLE BRIDGE - ANKENY BIKE/PED ONLY BRIDGE

← LOW MOVEABLES





# 3. Options Evaluation

What is rising to the top...

## What do they have in common?

- All use existing westside horizontal alignment
- Lowest capital cost
- Shortest bridges in total length
- Fewest streets blocked or bypassed
- All are moveable except for one 97 foot fixed bridge



# 4. Next Steps

2018

## Feasibility Study Activities

Online Event

Committee Meetings

Stakeholder Briefings

County Board Presentation

County Board Presentation

*Present Recommended Range of Alternatives*

*Evaluation Trends & Early Findings*

**Public Outreach Activities**

*Review Evaluation Trends & Early Findings*

**NEPA Scoping**

*Open Houses, Online Event & Stakeholder Briefings*

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT

Regulatory Agency Coordination

Issue Notice of Intent

Committee Meetings

**FHWA Final Approval**

*Range of Alternatives & Purpose and Need*

## Environmental Review Activities

We are here



# 5. Closing Remarks

**Thank You**

