

KEY DIFFERENTIATORS

**BRIDGE
ALTERNATIVES**



Enhanced Seismic Retrofit



Replacement: Short Span



Replacement: Long Span



Replacement: Couch Extension

SEISMIC RESILIENCY

More (8) supports in Geotechnical Hazard Zone (GHZ) = highest risk from soil movement during an earthquake

More (5) supports in GHZ = risk from soil movement during an earthquake

Fewest supports (1) in GHZ = least risk from soil movement during an earthquake

• Most (9) supports in GHZ = risk from soil movement during an earthquake
• Highest potential for damage to bridge from adjacent falling structures

COMMUNITY QUALITY OF LIFE

Most supports (5) in Waterfront Park = least light, space and opportunity for activities under the bridge

More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge

Fewest supports (1) in Waterfront Park = most light, space, and opportunity for activities under bridge

More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge

EQUITY & ENVIRONMENTAL JUSTICE

Requires 2-3 month closure of existing accessways to Portland Rescue Mission (PRM)

Maintains existing accessways to PRM throughout construction

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CRIME REDUCTION & PERSONAL SAFETY

Most supports = limited open space, visibility & sightlines

More supports = limited open space, visibility & sightlines

Fewest supports = increased open space, visibility and sightlines

More supports = limited open space, visibility & sightlines

BUSINESS & ECONOMICS

Shortest construction duration = shorter duration of disruption to business access via river crossing

Shortest duration closure/relocation of Saturday Market = shortest disruption of events and related revenue

• Displaces one additional business compared to the short or long span replacement bridges
• Permanent access impacts from changes in sidewalk and street elevations on 3rd Avenue

PARKS & RECREATION

• Most supports (5) in Waterfront Park = least light, space and opportunity for activities under the bridge
• Demolishes the Burnside Skatepark, disrupting physical activity in the short term and reducing social cohesion-related health benefits in the long term
• Longer closure of Waterfront Park, Skatepark & Esplanade

• More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge
• Longer closure of Waterfront Park, Skatepark & Esplanade

• Fewest supports (1) in Waterfront Park = most light, space, and opportunity for activities under bridge
• Shortest duration closure of Waterfront Park, Skatepark and Esplanade

• More supports (2) in Waterfront Park = less light, space, and opportunity for activities under bridge
• Longer closure of Waterfront Park, Skatepark & Esplanade

HISTORICAL RESOURCES

Preserves limited portions of historic Burnside Bridge
Demolishes historic Burnside Skatepark and part of Harbor Seawall

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VISUAL & AESTHETICS

Maintains existing views

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Maximum impact to existing views
Greatest opportunities for new visual experience above and below deck

Maintains existing views

NATURAL RESOURCES, CLIMATE CHANGE & SUSTAINABILITY

Largest footprint in river = greatest potential impact to water quality, fish, and floodplain.
Generates lower GHG emissions due to shorter construction and use of fewer new construction materials

Medium footprint in river = medium potential impact to water quality, fish, and floodplain.

Smallest footprint in river = smallest potential impact to water quality, fish, and floodplain.

Medium footprint in river = medium potential impact to water quality, fish, and floodplain.

PEDESTRIANS, BICYCLISTS & PEOPLE WITH DISABILITIES

Least opportunity for improved bike/ped facilities

• Wider bike/ped facilities
• Increased safety with crash barrier
• Lower exposure to air pollution for people walking & biking

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More out-of-direction travel to Esplanade disincentivizes physical activity and make travel more difficult for people with disabilities.

MOTOR VEHICLES, FREIGHT & EMERGENCY VEHICLES

Smoother access for large westbound trucks and vehicles

TRANSIT

• Improves operations for potential future streetcar
• Improves visibility and eliminates potential vulnerability for transit collisions through Couch "S" curve.

FISCAL RESPONSIBILITY

• Construction cost comparable to Short Span due to extensive retrofit work to meet seismic standards
• Highest long term maintenance cost due to age of bridge

Least long term maintenance cost

Lowest construction cost due to minimizing geotechnical hazard mitigation, utility relocation, and foundation work

• Highest construction cost due to greater material needs, geotechnical hazard mitigation, and ROW acquisition
• Highest long term maintenance cost due to increased bridge area, structural members, and difficult access