



## **East Montlake Shoreline Area**

- How can the project enhance connectivity to and through this area?
- What uses would be appropriate in this area?
- How do people access the shoreline and the park?

# East Montlake Shoreline - Baseline Design

## Description

The East Montlake shoreline includes the area under the western landing of the new west approach bridge structure that connects the Arboretum to East Montlake Park. The abutment is located approximately 20' from the water at its narrowest spot at the northeast corner, with approximately 10' of clearance.

## Function

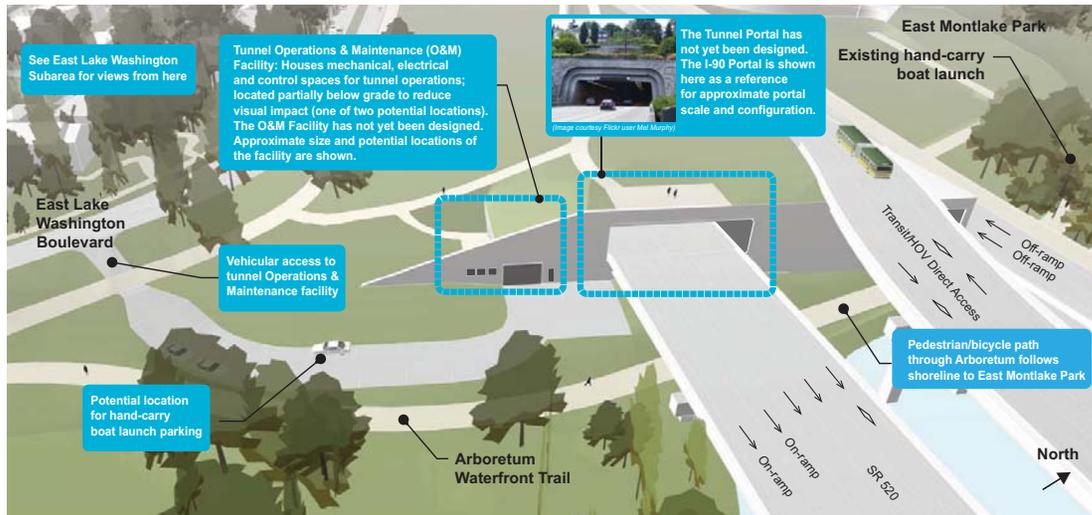
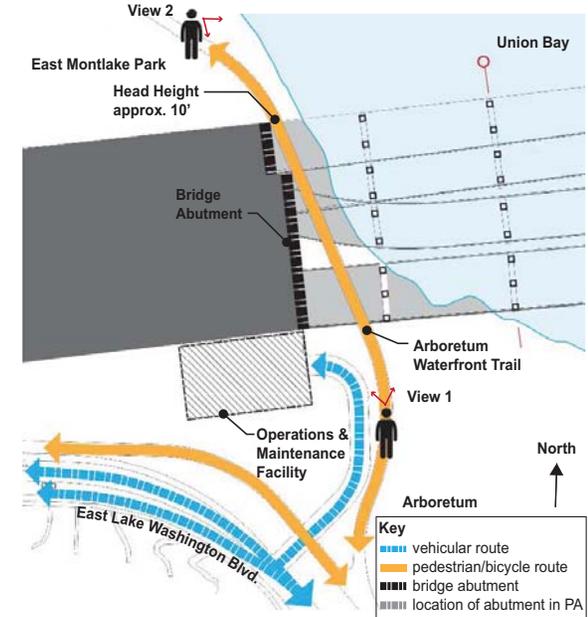
- Accommodate the abutment foundation for the west end of the new west approach bridge
- Accommodate a new 14'-wide bicycle/pedestrian path connection along the shoreline between East Montlake Park and the Arboretum

## Design Goals

- Provide an inviting and safe experience for bicyclists and pedestrians traveling under the SR 520 bridge and along the edge of the shoreline
- Discourage undesirable and unintended uses by providing adequate sightlines and encouraging active public uses of the areas near and under the bridge
- Integrate the highway with the surrounding park and natural landscape

## Sustainability Opportunities

- Connectivity – Provide a pedestrian and bicycle connection from East Lake Washington Boulevard and the Arboretum to East Montlake Park
- Ecology – Minimize project effects on the adjacent shoreline
- Materials – Use permeable paving to the extent possible for required access, parking, and loading areas for the lid operations and maintenance facility



# East Montlake Shoreline - Option A Stepped Abutment

## Refinement Opportunity

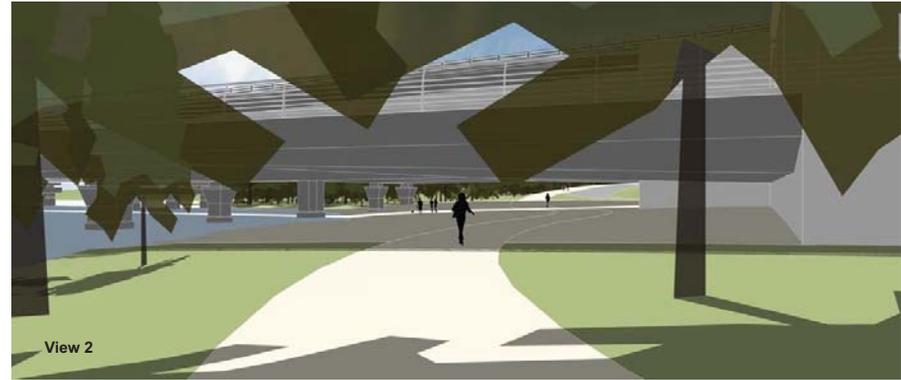
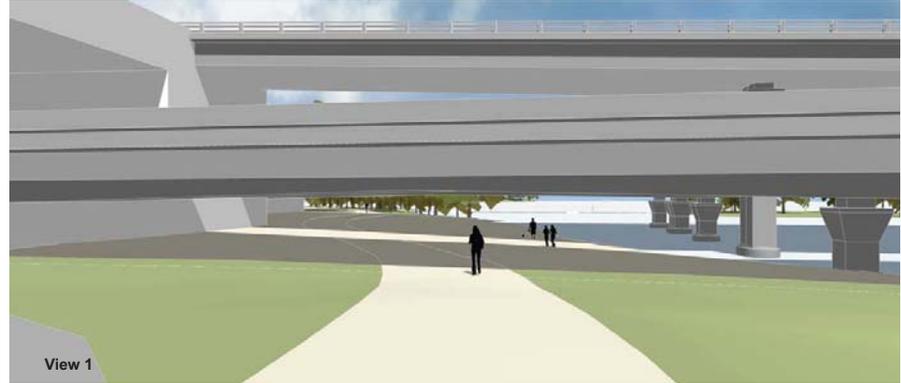
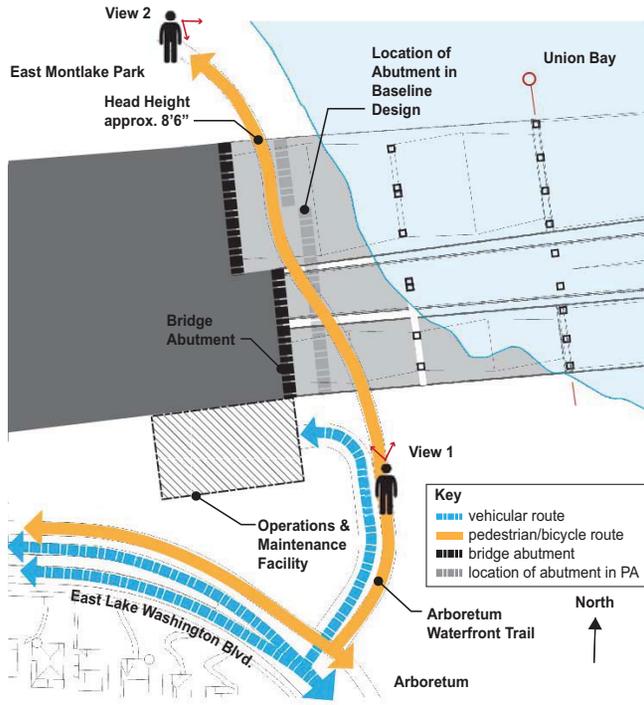
- Option A modifies the baseline design into two adjacent 'stepped' abutments which increase the width for the path along the shoreline
- Incorporates changes to the bridge column and beam designs that maximize headroom and views toward the water
- Allows for a required tunnel Operations and Maintenance building at the southeast corner of the lid (one of two potential locations)

## Benefits

- Provides a more inviting space under the bridge structure for the path
- Increases the visual sightlines along the path (abutment changes) and toward the water (column/beam design changes)

## Considerations

- Reduces the area of the lid at the northeast corner
- Creates a larger covered space than the baseline to accommodate both potential public activities under the bridge and to maintain appropriate maintenance and security access



## Precedents for public spaces below bridge structures



"Moodwall," Amsterdam  
Light sculpture  
*(image courtesy Flickr user Golfstromen)*



Marsupial Bridge, Milwaukee  
Public seating, outdoor movie screen  
*(image courtesy La Dallman Architects)*



Zaanstad, The Netherlands  
Kayak launch  
*(image courtesy a+1 ediciones)*

**DRAFT**  
April 2012

**CONCEPTUAL**  
CONCEPTUAL DESIGN ONLY. SUBJECT TO THE CITY OF SEATTLE'S DESIGN REVIEW AND APPROVAL.

**Washington State**  
Department of Transportation

**520**

# East Montlake Shoreline - Option B Larger Setback

## Refinement Opportunity

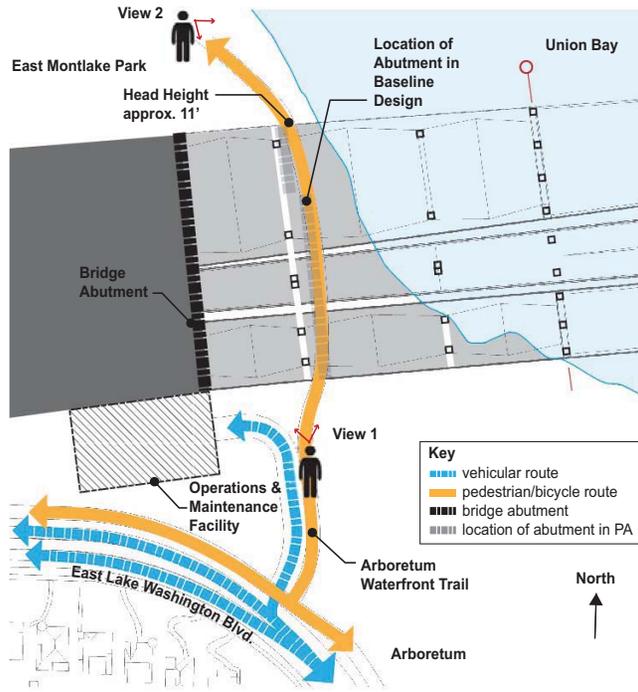
- Option B modifies the baseline design by shifting the entire abutment to the west and creates a large space under the bridge
- Incorporates changes to the bridge column and beam designs that maximize headroom and views toward the water
- Allows for a required tunnel Operations and Maintenance building at the southeast corner of the lid (one of two potential locations)

## Benefits

- Provides a more inviting space under the bridge structure for the bicycle/pedestrian path
- Increases the visual sightlines along the path (abutment changes) and toward the water (column/beam design changes)

## Considerations

- Reduces the area of the lid along the entire eastern edge
- Creates the largest covered space compared to the baseline potential public activities under the bridge



## Precedents for public spaces below bridge structures



Buffalo Bayou Promenade, Houston  
Multi-use trail  
*(image courtesy Flickr user D.Foss)*



North False Creek, Vancouver, BC  
Secure kayak storage  
*(image courtesy Davidya Kasperzyk, WSDOT)*



North False Creek, Vancouver, BC  
Soccer/basketball court, playground  
*(image courtesy Davidya Kasperzyk, WSDOT)*

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**CONCEPTUAL**  
THIS IS AN EARLY CONCEPT FOR THE PROJECT. IT IS NOT A FINAL DESIGN.

**Washington State Department of Transportation**

**520**

# East Montlake Shoreline - Transit/HOV Off-ramp Options

## Refinement Opportunity

- The Transit/HOV on/off-ramps are lowered at the east end of the lid

## Benefit

- Reduced visual effects from both East Lake Washington Boulevard and East Montlake Park

## Consideration

- The useable area of the lid is reduced

## Design Option: Baseline Transit/HOV Off-ramps



## Design Option: Lowered Transit/HOV Off-ramps

