WEST APPROACH BRIDGE - VISION

Our vision for the SR 520 corridor is to become the premier gateway for the City of Seattle by reconnecting to the early Seattle vision of Nature meets City.

We intend to implement our Program in a manner that yields affordable solutions and fosters groundbreaking sustainability practices that support regional and local connectivity, ecology and the use of low-carbon materials. Further, the design of the corridor will balance aesthetics, functionality, proportion and sense of speed along the SR 520 facility to provide a memorable experience for all users.

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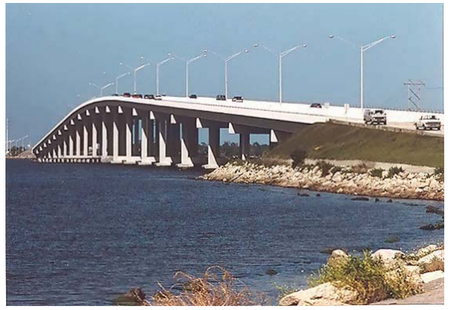
Washington State Department of Transportation

STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN INSPIRATION

Robert Moses Causeway
Suffolk County, New York



Eau Gallie Causeway
Eau Gallie, Florida

Tay Road Bridge
Firth of Tay, Scotland

Dauphin Island Bridge/Gordon Persons Bridge
Mobile County, Alabama

Øresund Bridge
Copenhagen, Denmark/Malmo, Sweden

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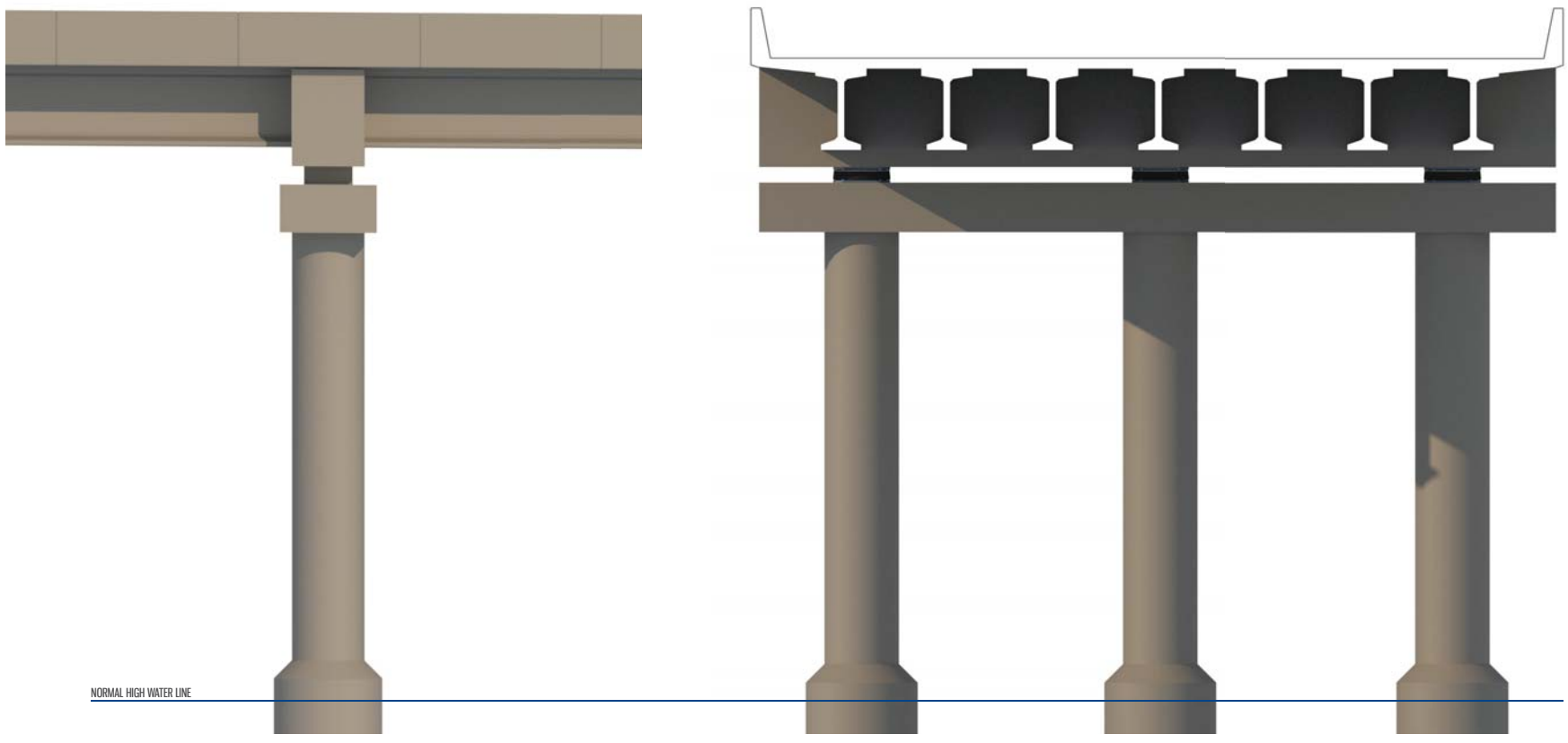
STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN PROGRESSION

Baseline Design



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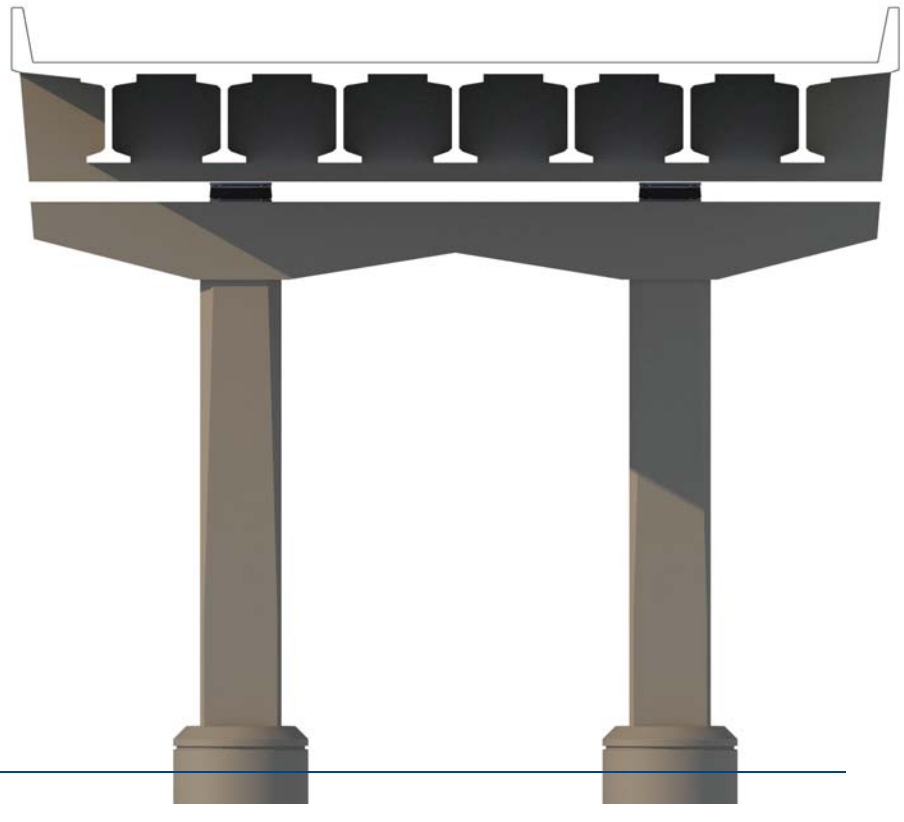
STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN PROGRESSION

9-20-2012

Seattle Design Commission Meeting



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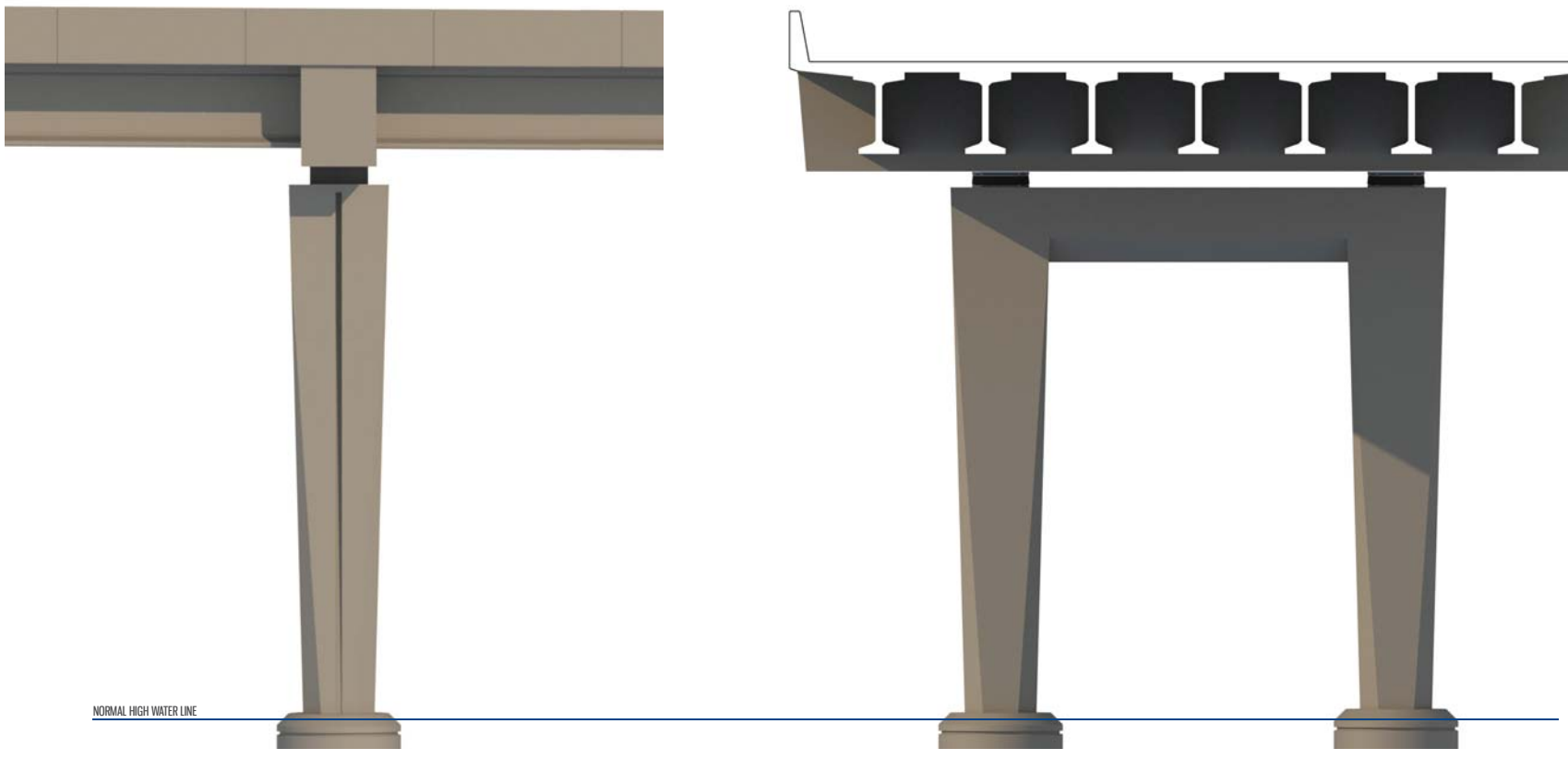
STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN PROGRESSION

10-10-2012

Seattle Design Commission Subcommittee Meeting



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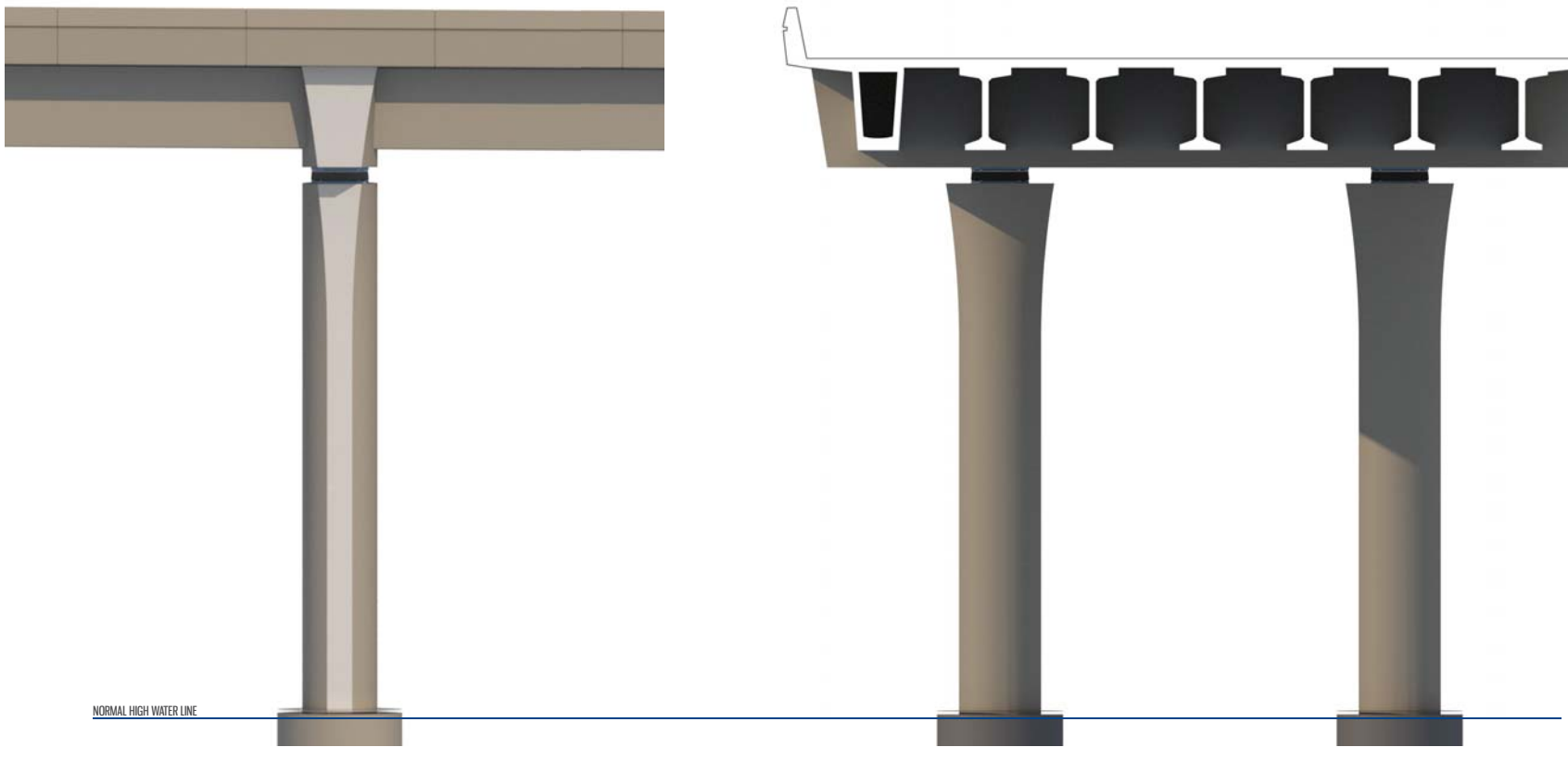
STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN PROGRESSION

Preferred Design



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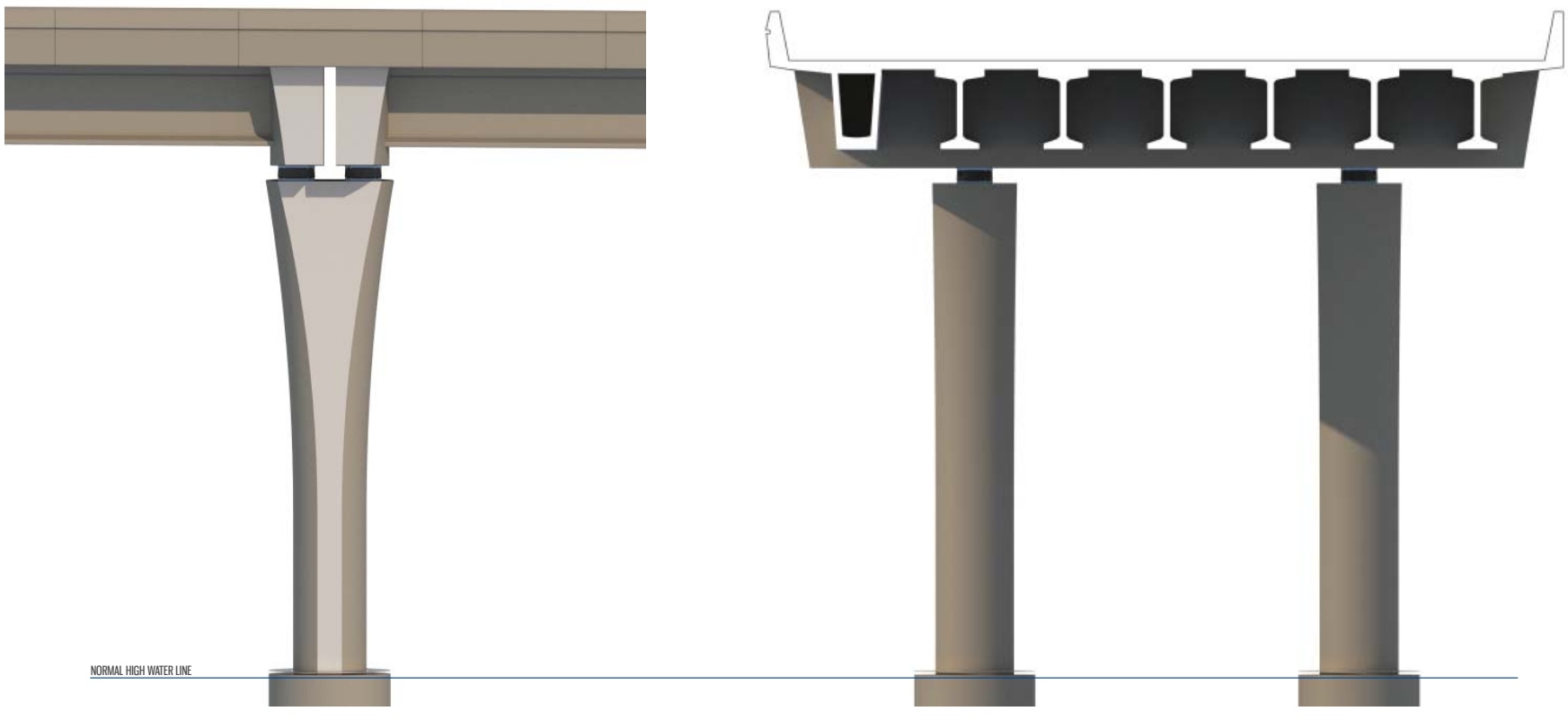
STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN PROGRESSION

Preferred Design

Expansion Joints



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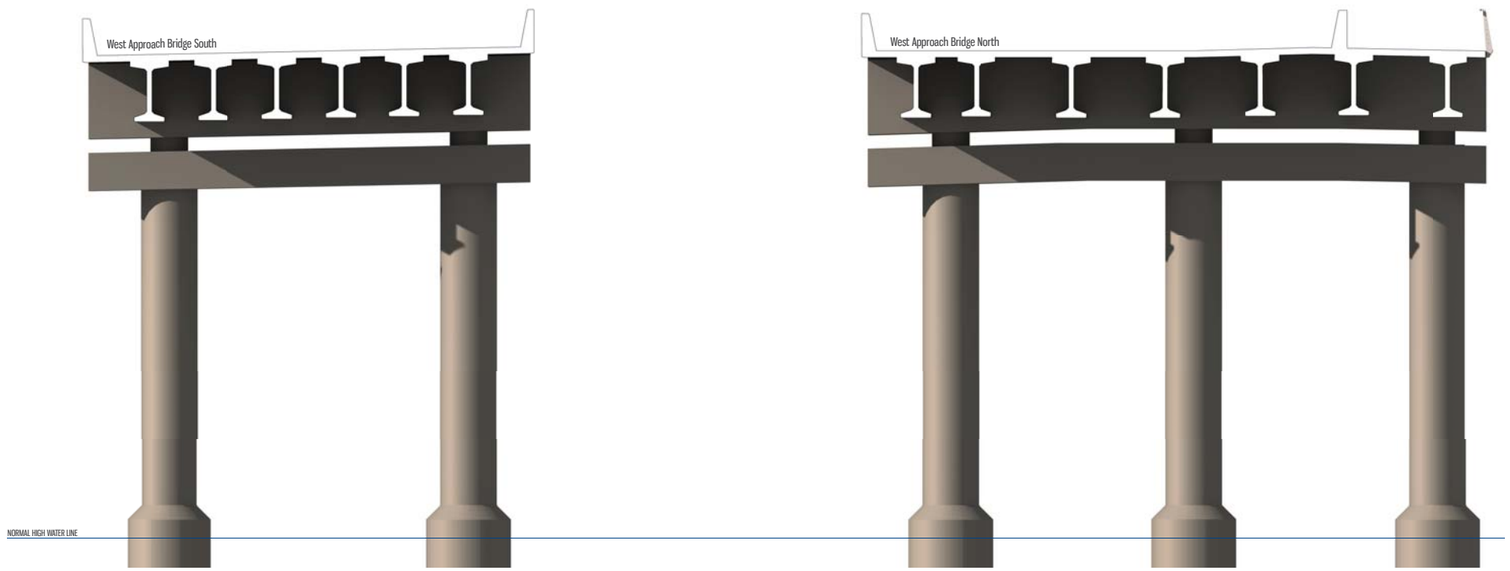
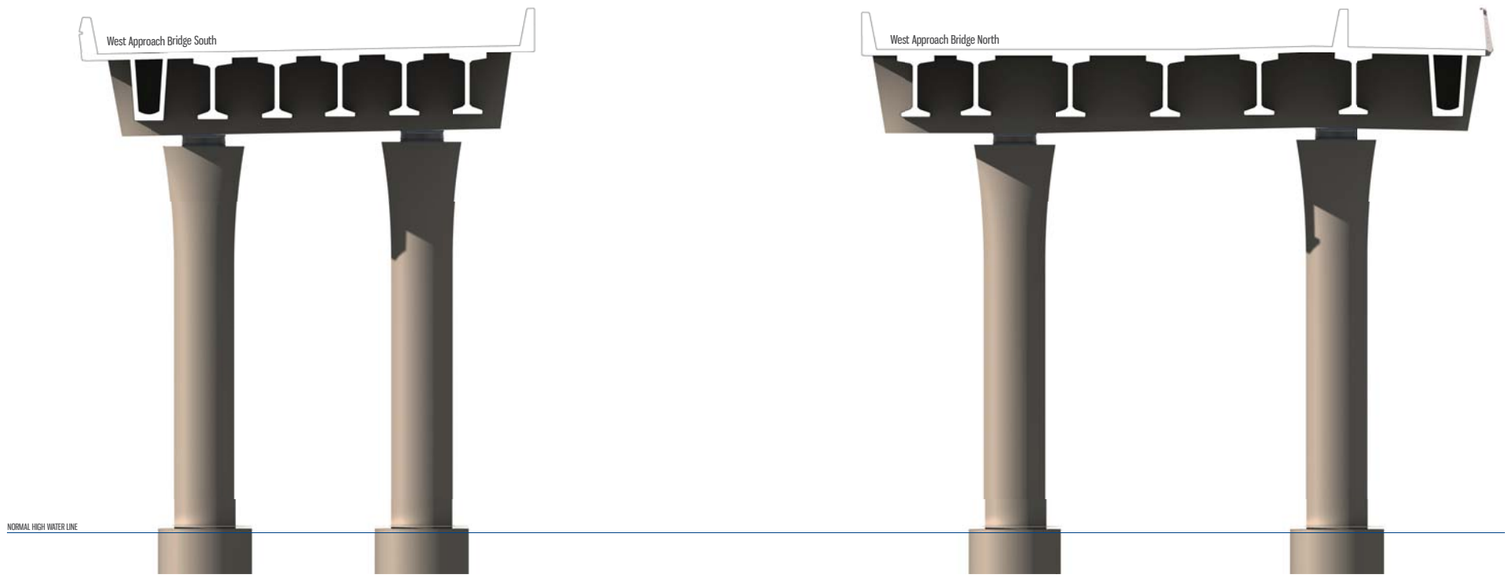
STATE ROUTE 520

WEST APPROACH BRIDGE - DESIGN PROGRESSION

Baseline



Preferred



SUSTAINABILITY GOALS

Design and construction of the West Approach Bridge continues to meet and augment SR 520 sustainability goals by lessening construction impacts and reducing concrete volumes by nearly 50 percent from the baseline design to the preferred design. This reduction in concrete is achieved through:

- Innovative technologies, such as seismic isolation bearings
- Simplification and reduction of substructure elements

The reduction in concrete has the potential to produce significant carbon dioxide (CO_2) emission reductions.

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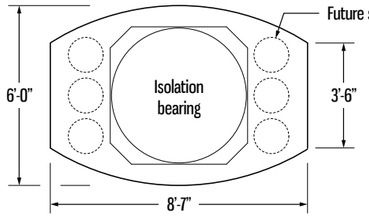
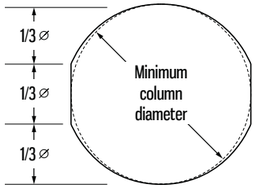
STATE ROUTE 520

TYPICAL COLUMN DETAILS

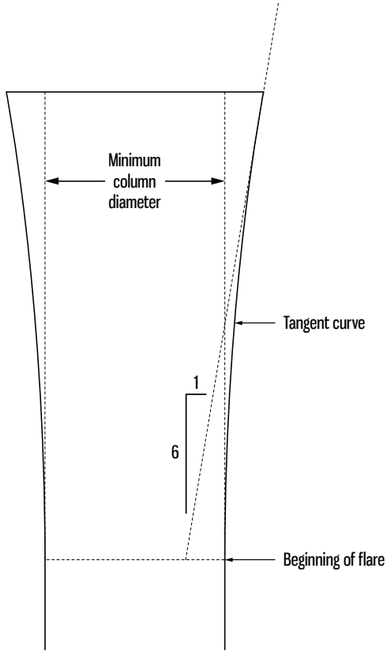
TOP OF COLUMN



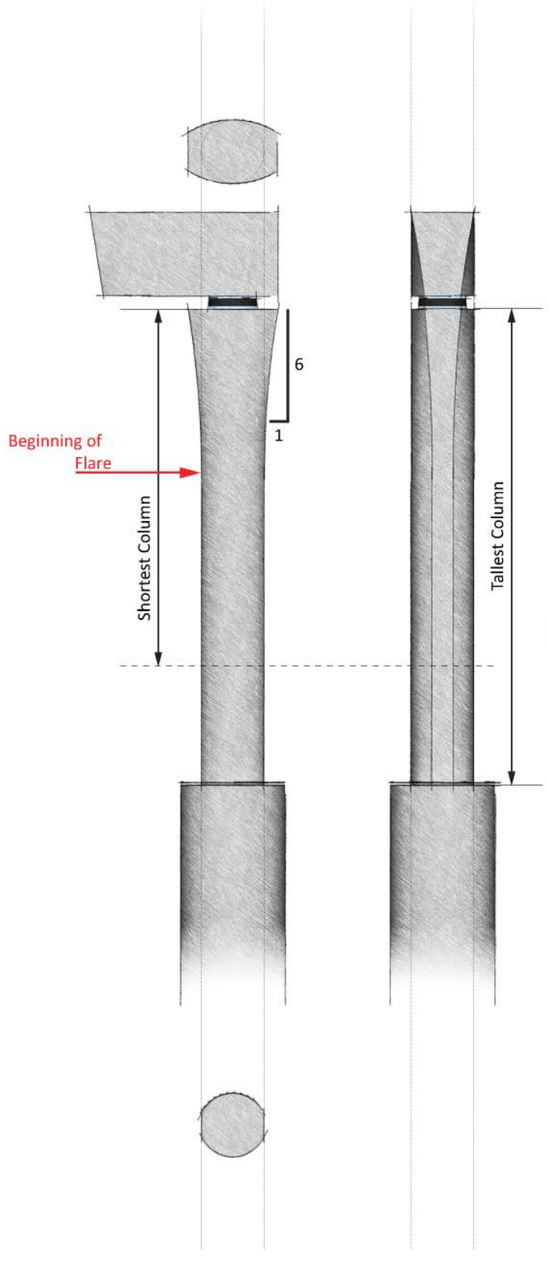
BOTTOM OF COLUMN



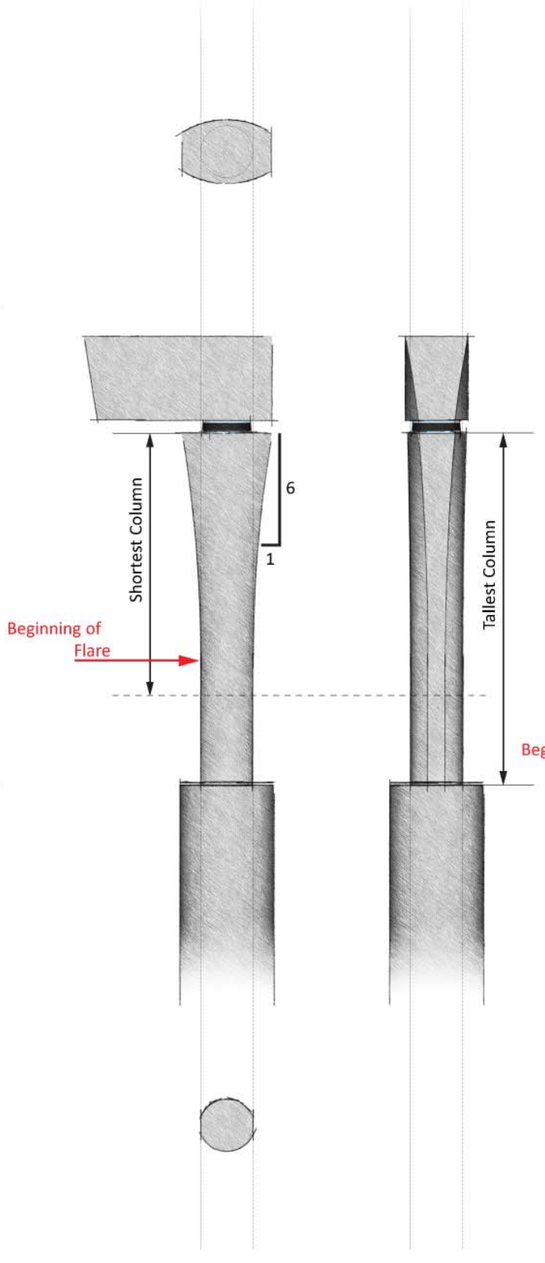
COLUMN ELEVATION



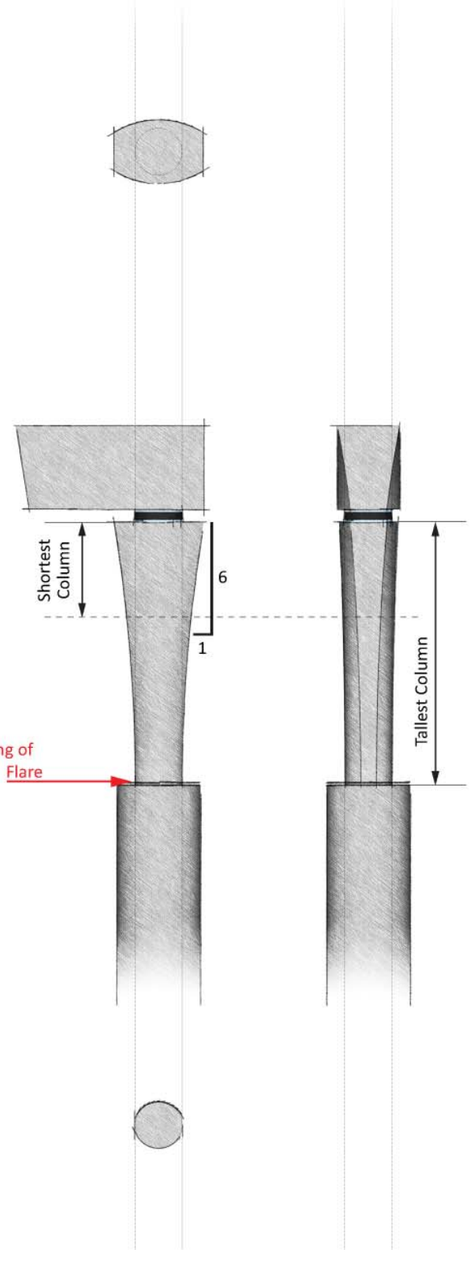
6' Ø COLUMN



5' Ø COLUMN



4.5' Ø COLUMN



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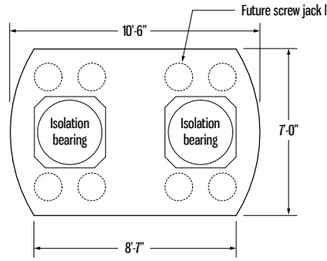
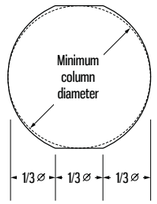
STATE ROUTE 520

TYPICAL COLUMN DETAILS AT EXPANSION JOINTS

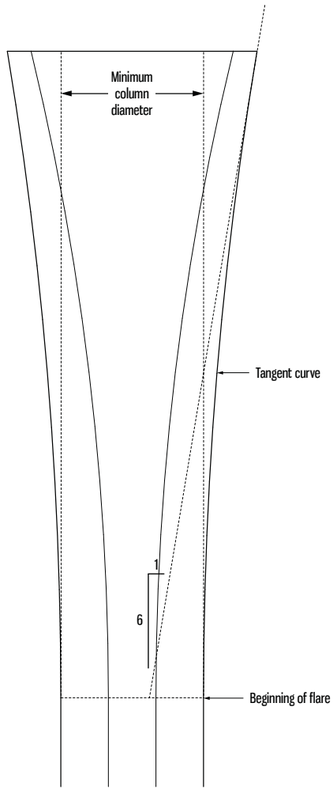
TOP OF COLUMN



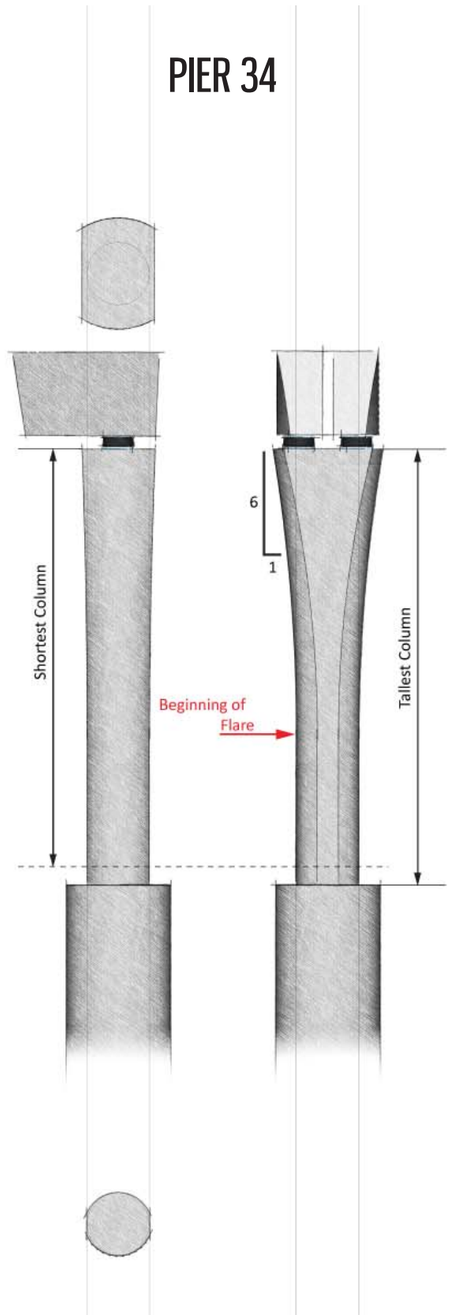
BOTTOM OF COLUMN



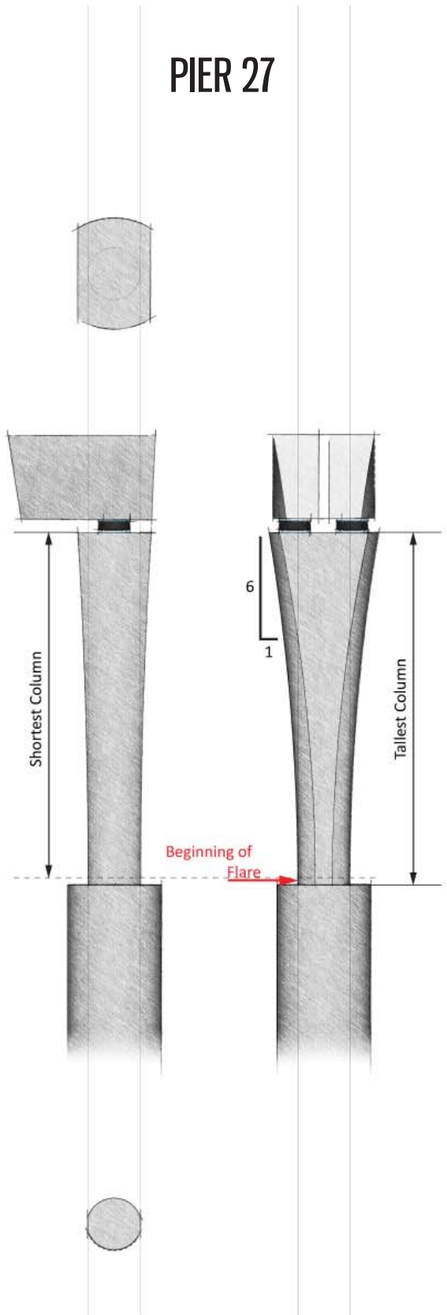
COLUMN ELEVATION



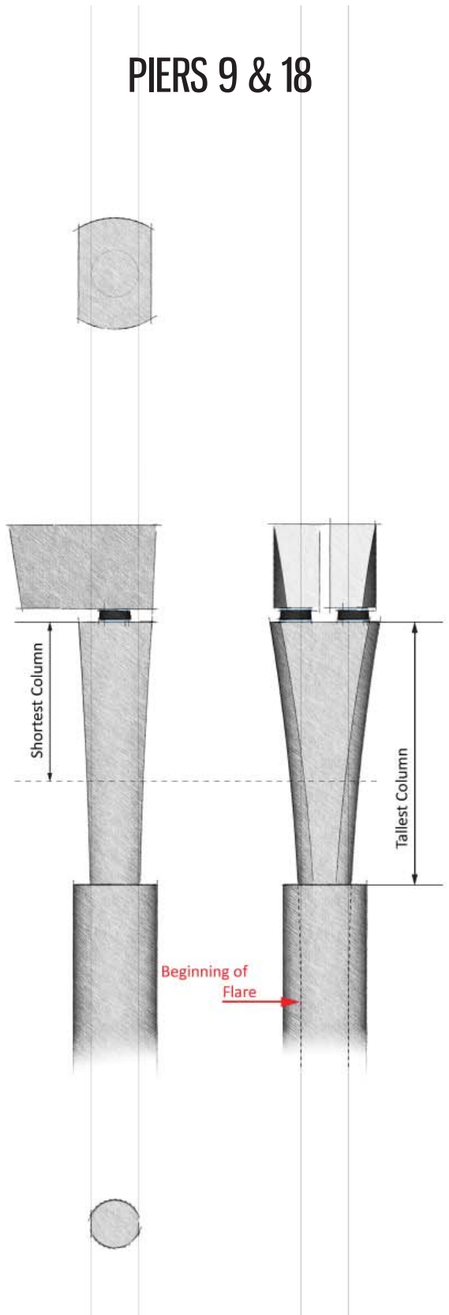
PIER 34



PIER 27



PIERS 9 & 18



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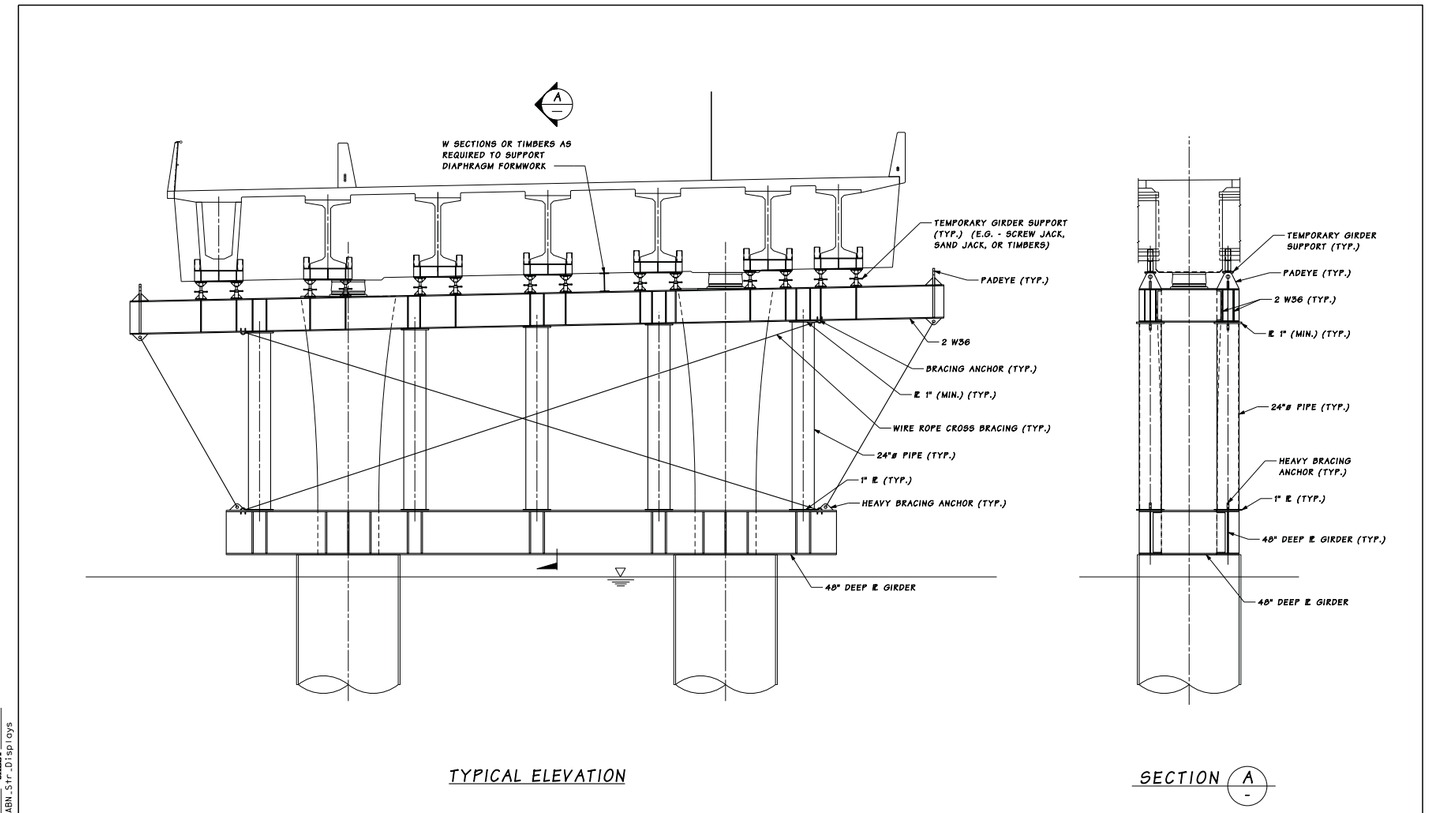
TEMPORARY SUPPORTS



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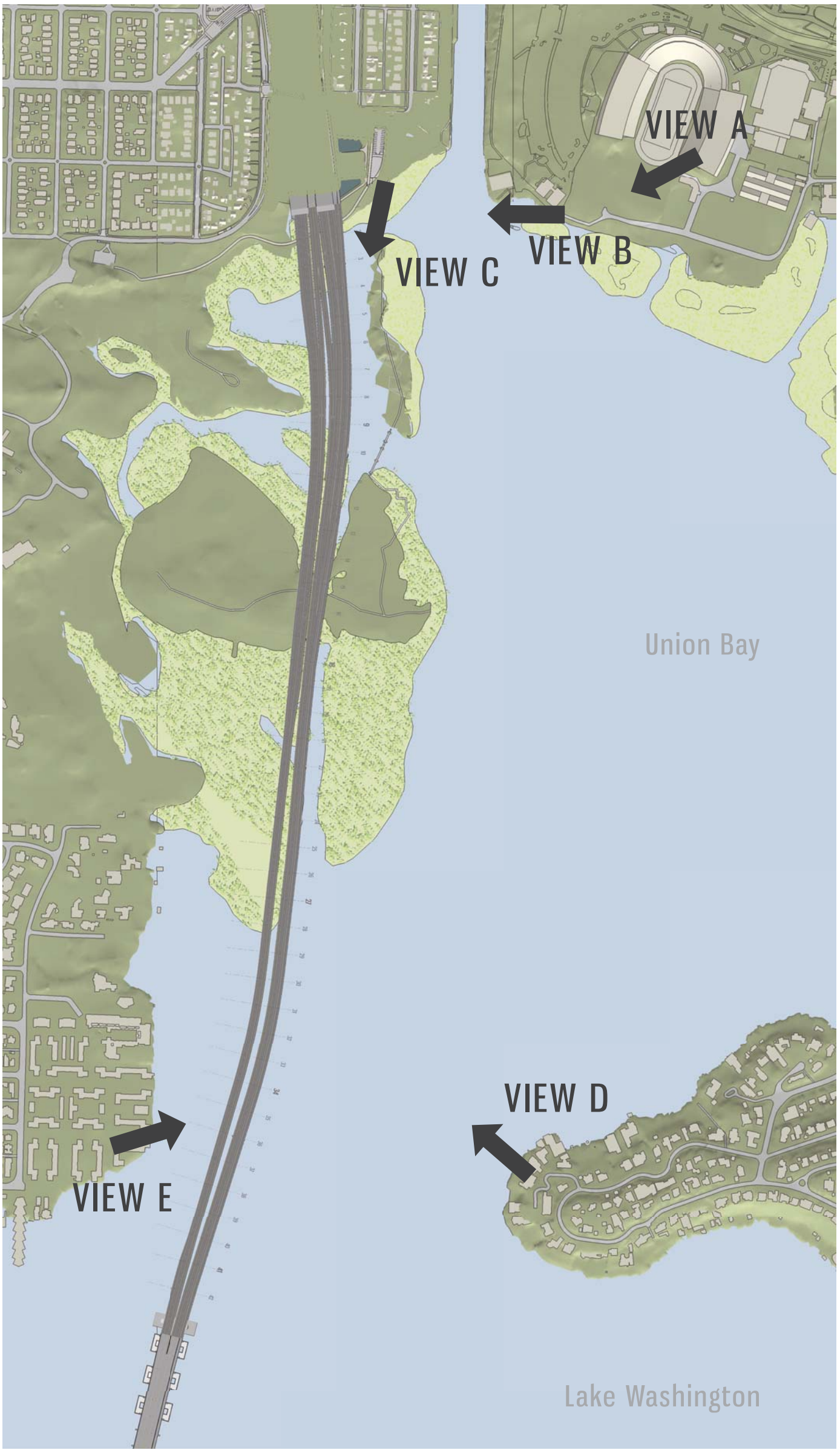
FEIS VIEWS KEY



FLOATING BRIDGE

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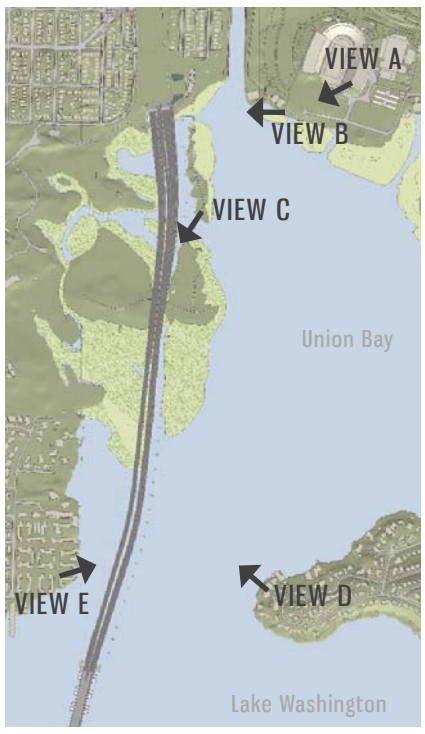
A: VIEW FROM HUSKY STADIUM

EXISTING CONDITIONS

FEIS VIEWS KEY



FLOATING BRIDGE

BASELINE DESIGN

CURRENT DESIGN

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B: VIEW FROM UW WATERFRONT ACTIVITIES CENTER

EXISTING CONDITIONS

BASELINE DESIGN

CURRENT DESIGN

FEIS VIEWS KEY

FLOATING BRIDGE

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C: VIEW FROM MARSH ISLAND BOARDWALK

EXISTING CONDITIONS

BASELINE DESIGN

CURRENT DESIGN

FEIS VIEWS KEY

FLOATING BRIDGE

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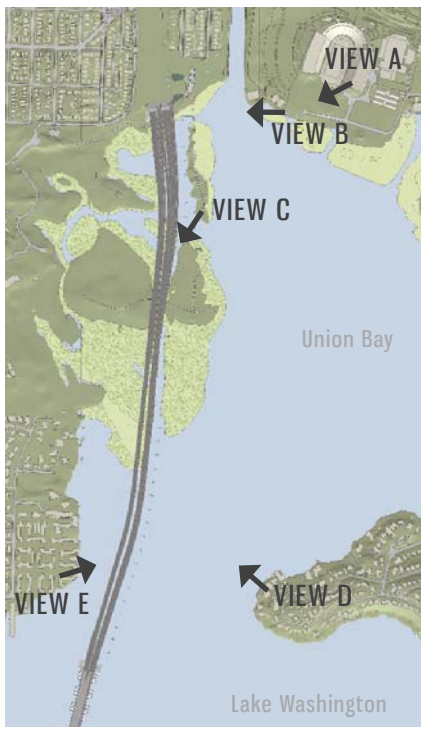
D: VIEW FROM WEBSTER POINT

EXISTING CONDITIONS

FEIS VIEWS KEY



FLOATING BRIDGE

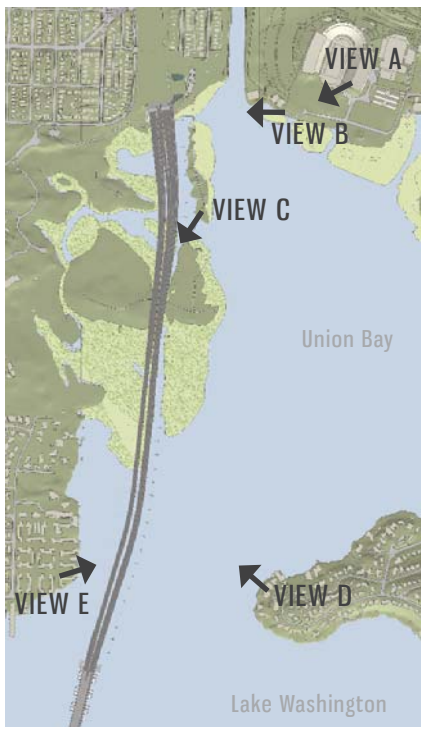
BASELINE DESIGN

CURRENT DESIGN

E: VIEW FROM NORTH MADISON PARK

EXISTING CONDITIONS

FEIS VIEWS KEY



FLOATING BRIDGE

BASELINE DESIGN

CURRENT DESIGN

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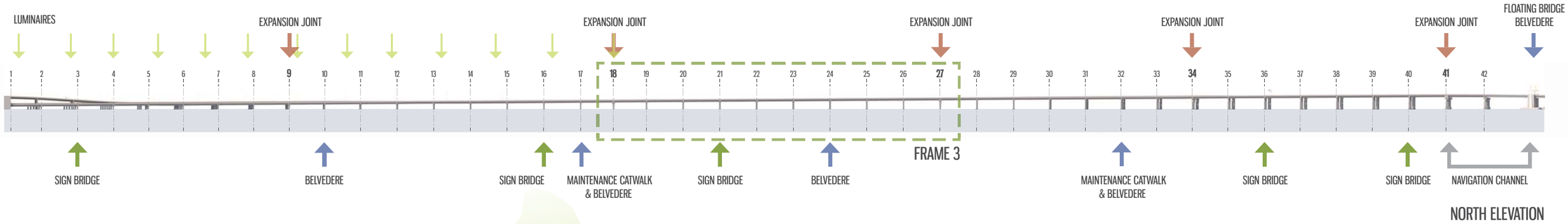
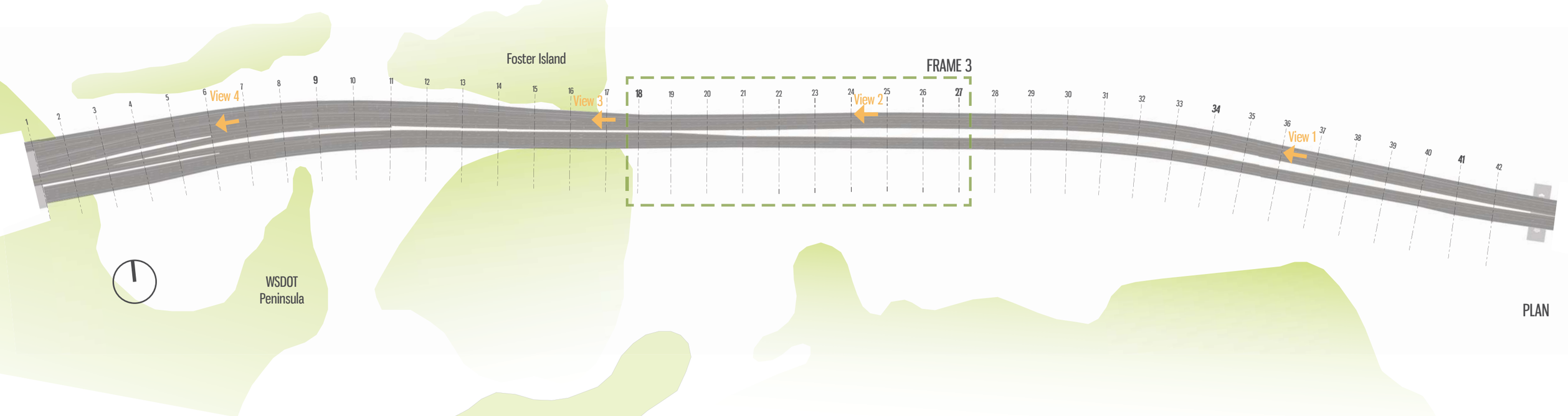
ABOVE-BRIDGE ELEMENTS



NORTH ELEVATION



PLAN

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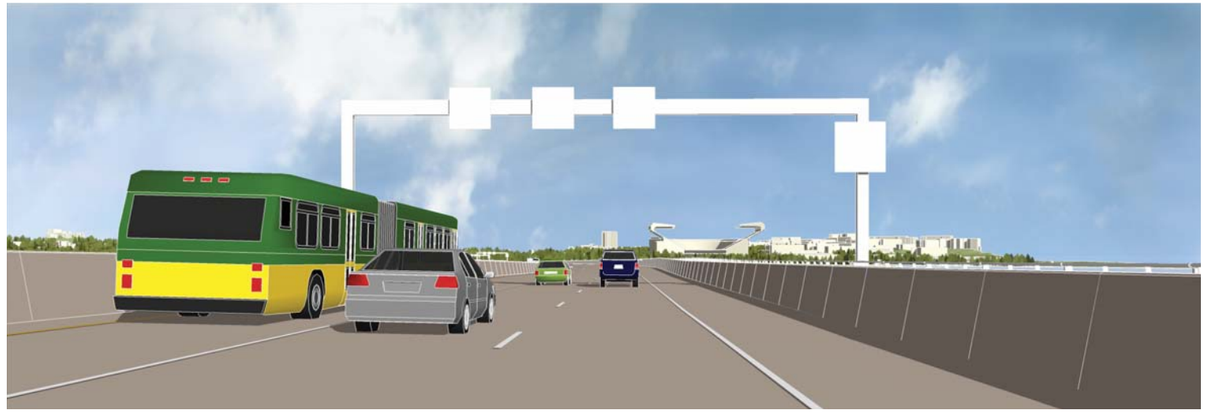

View 1 Transition from Lake Washington to Union Bay

View 2 Pedestrian view along shared-use path

View 3 Passing over Foster Island

View 4 Approaching land and Montlake portal

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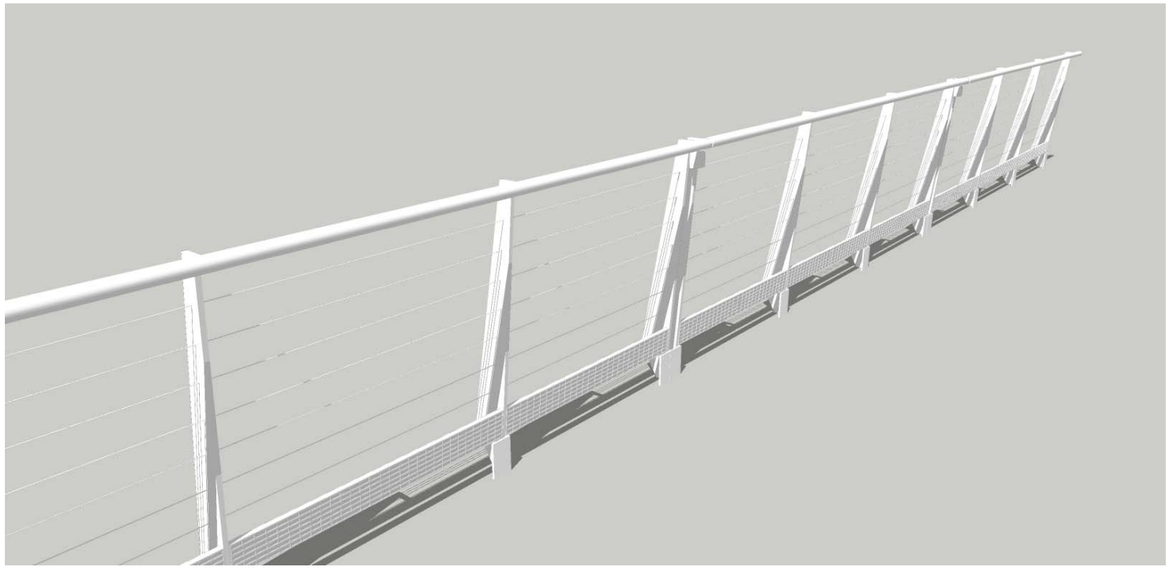
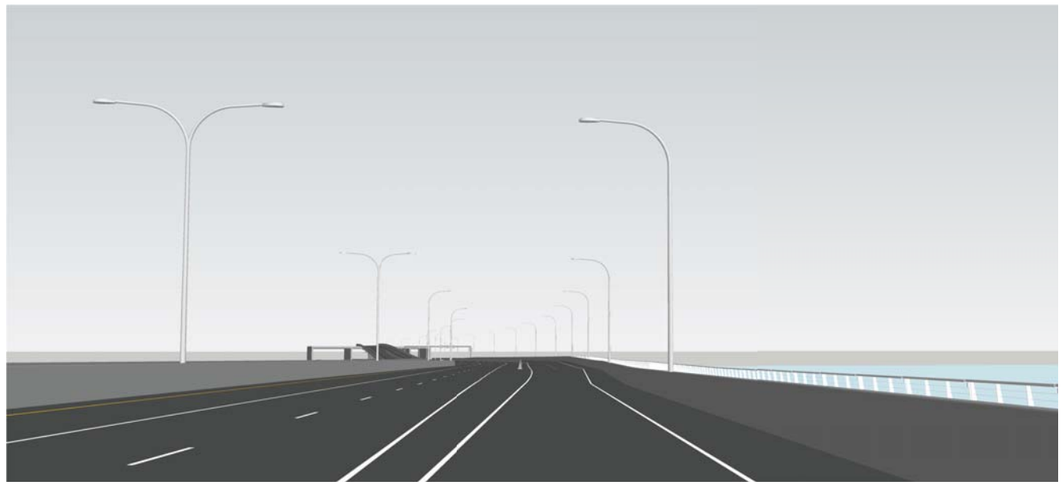


pedestrian railing

shaft caps



luminaires

FRAME 3, NORTH ELEVATION

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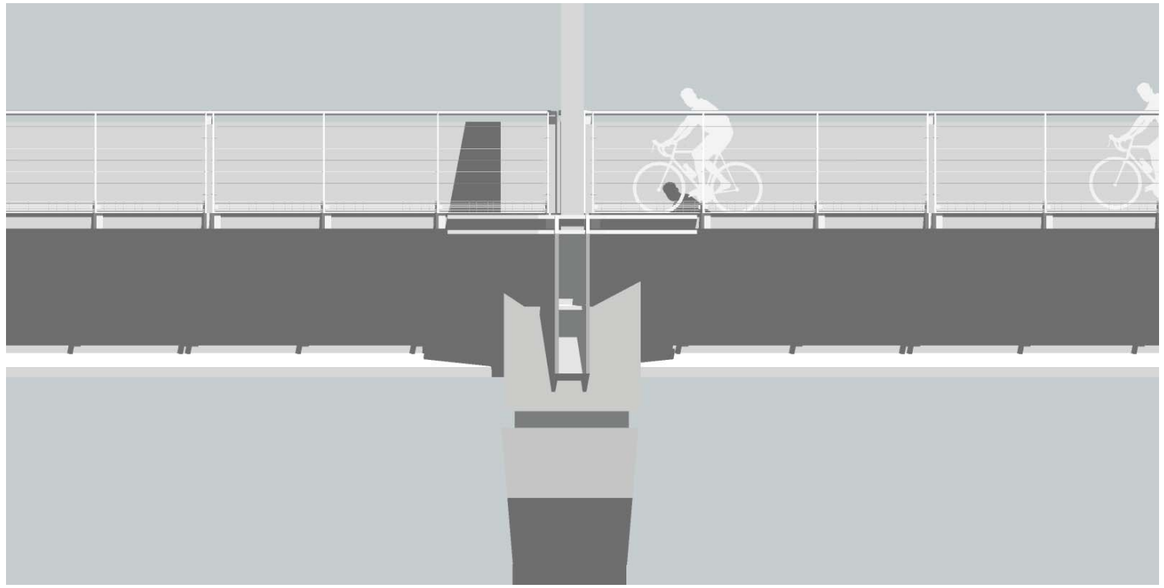
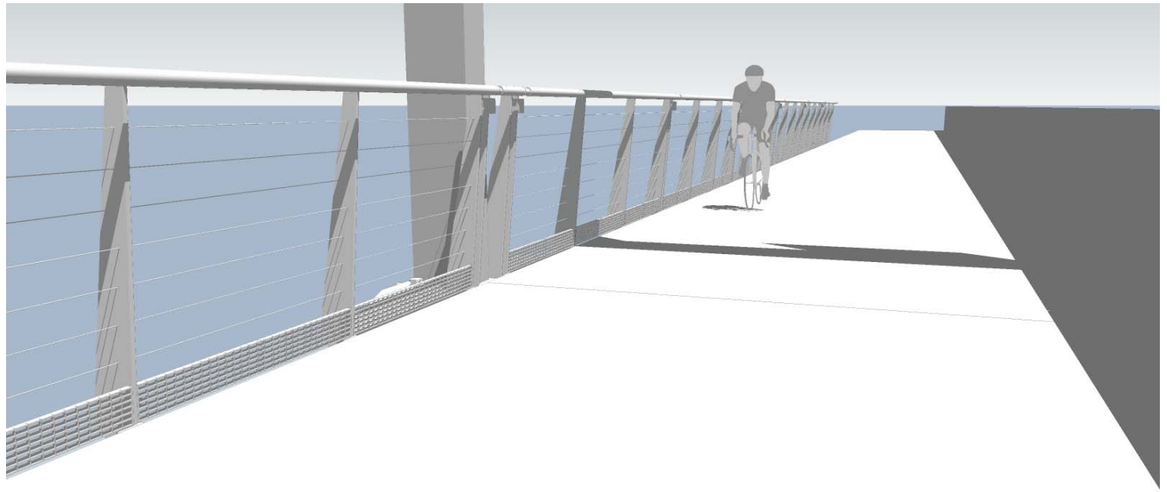
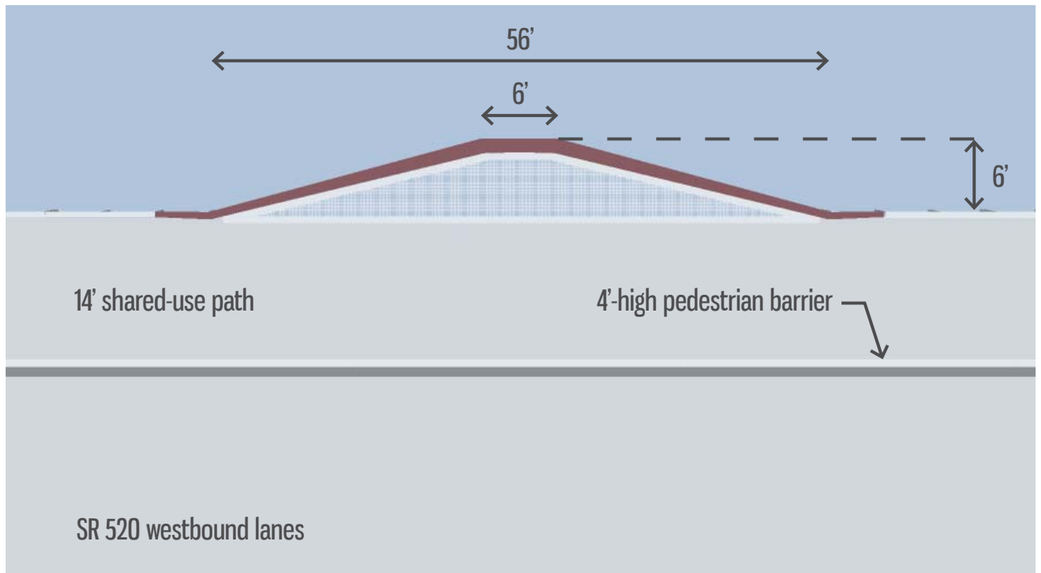




sign bridges



belvederes & maintenance catwalks

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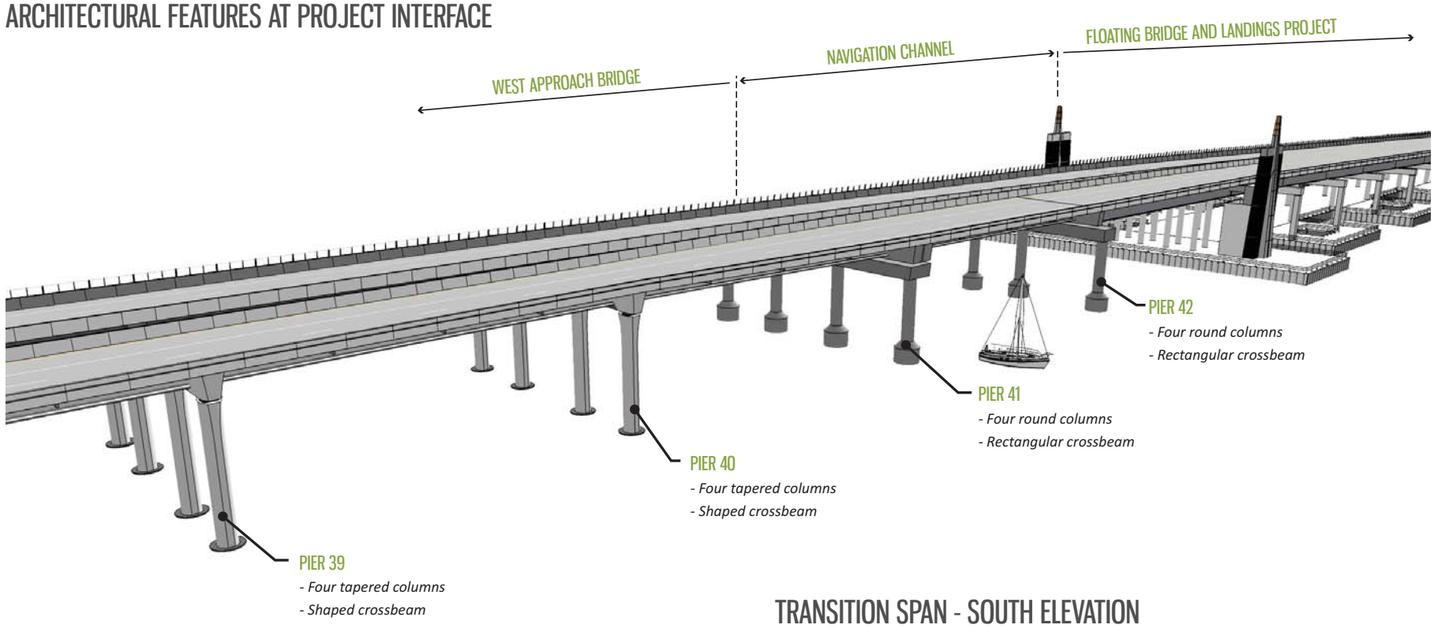
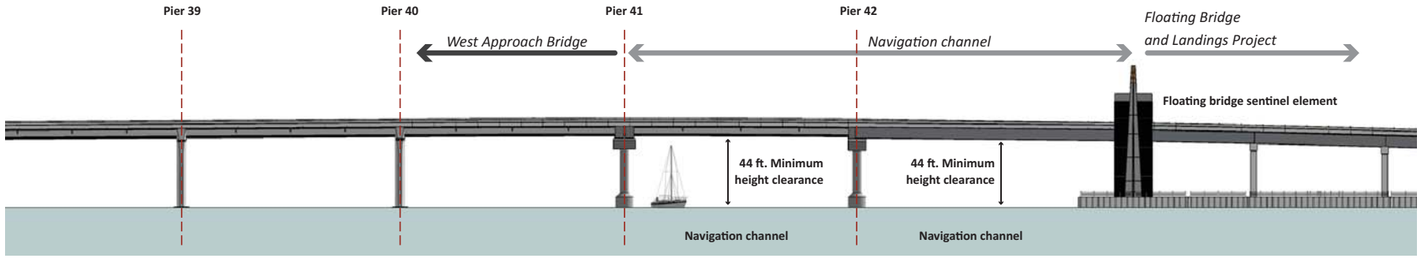
STATE ROUTE 520

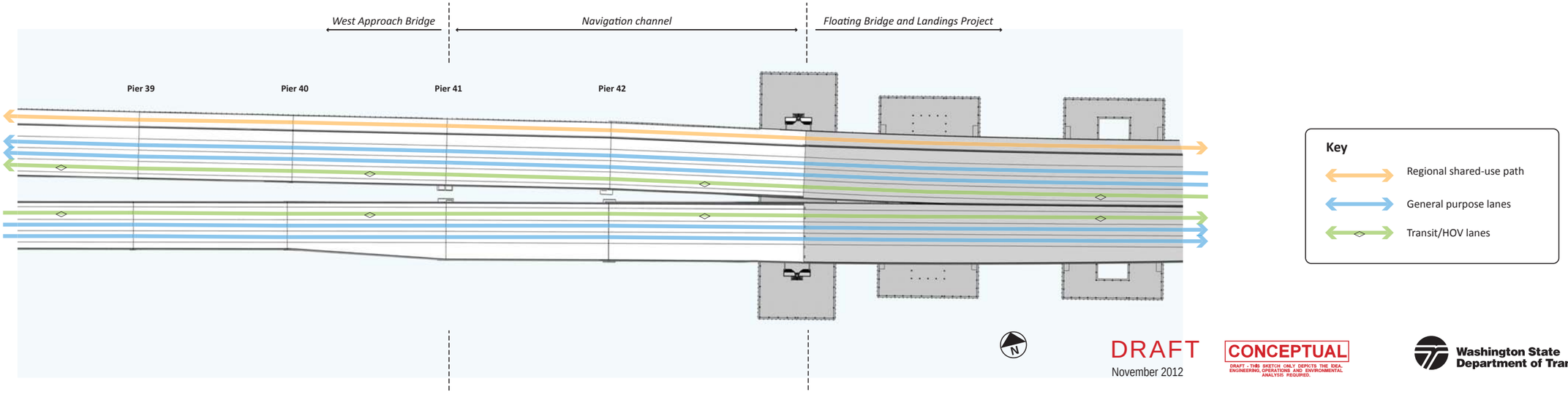
ARCHITECTURAL FEATURES AT PROJECT INTERFACE



TRANSITION SPAN - SOUTH ELEVATION



CHANNELIZATION AT PROJECT INTERFACE



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