Alaskan Way Viaduct & Seawall Replacement Program

Seattle Design Commission

January 21, 2010

U.S. Department of Transportation
Federal Highway Administration

WSDOT

King County

Port of Seattle

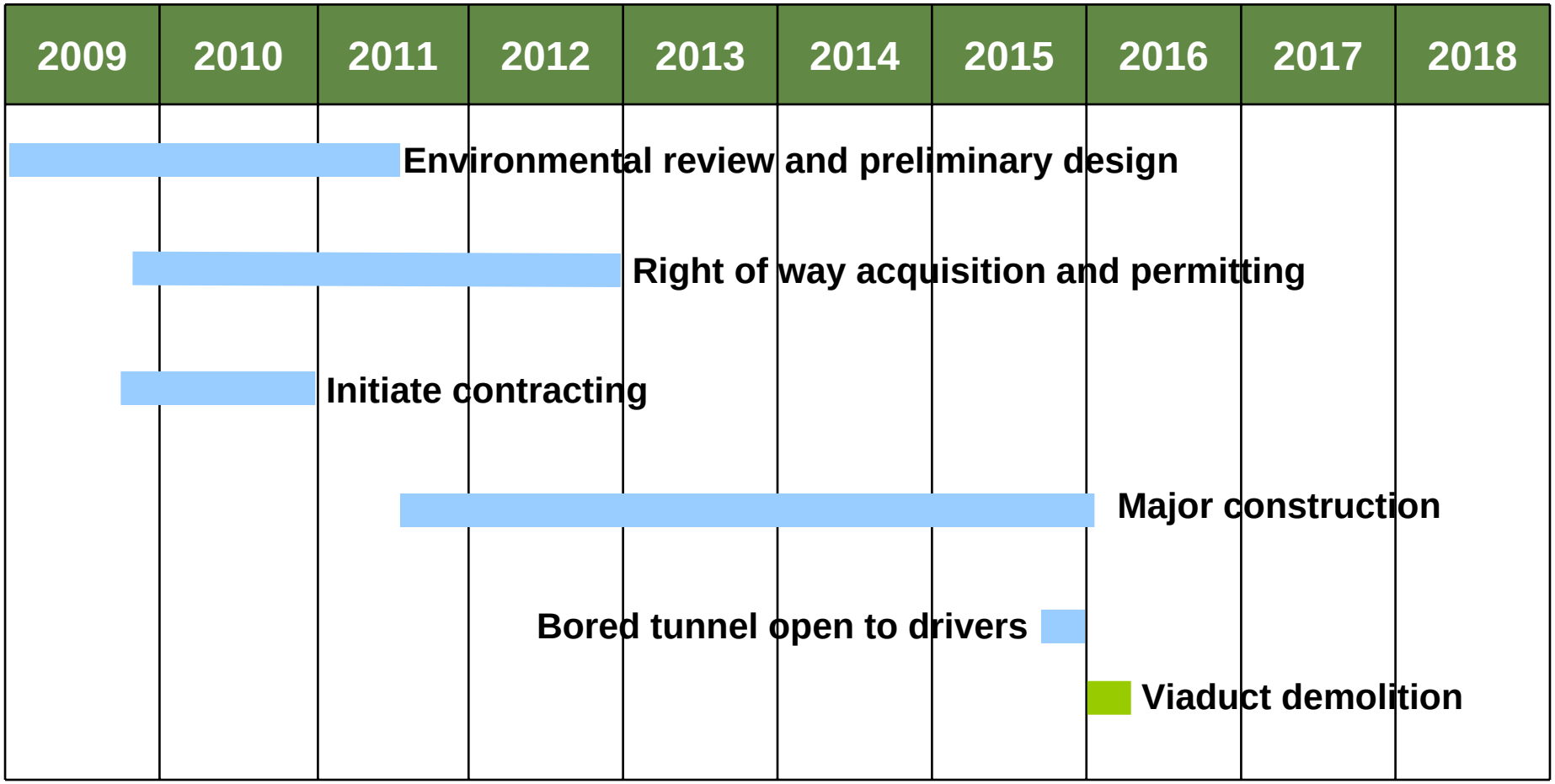
City of Seattle

Design Team Members

WSDOT and SDOT have brought on world-class architecture firms to aid in the design of the proposed bored tunnel. The team includes:

- NBBJ
- PB Architects
- ROMA Design Group

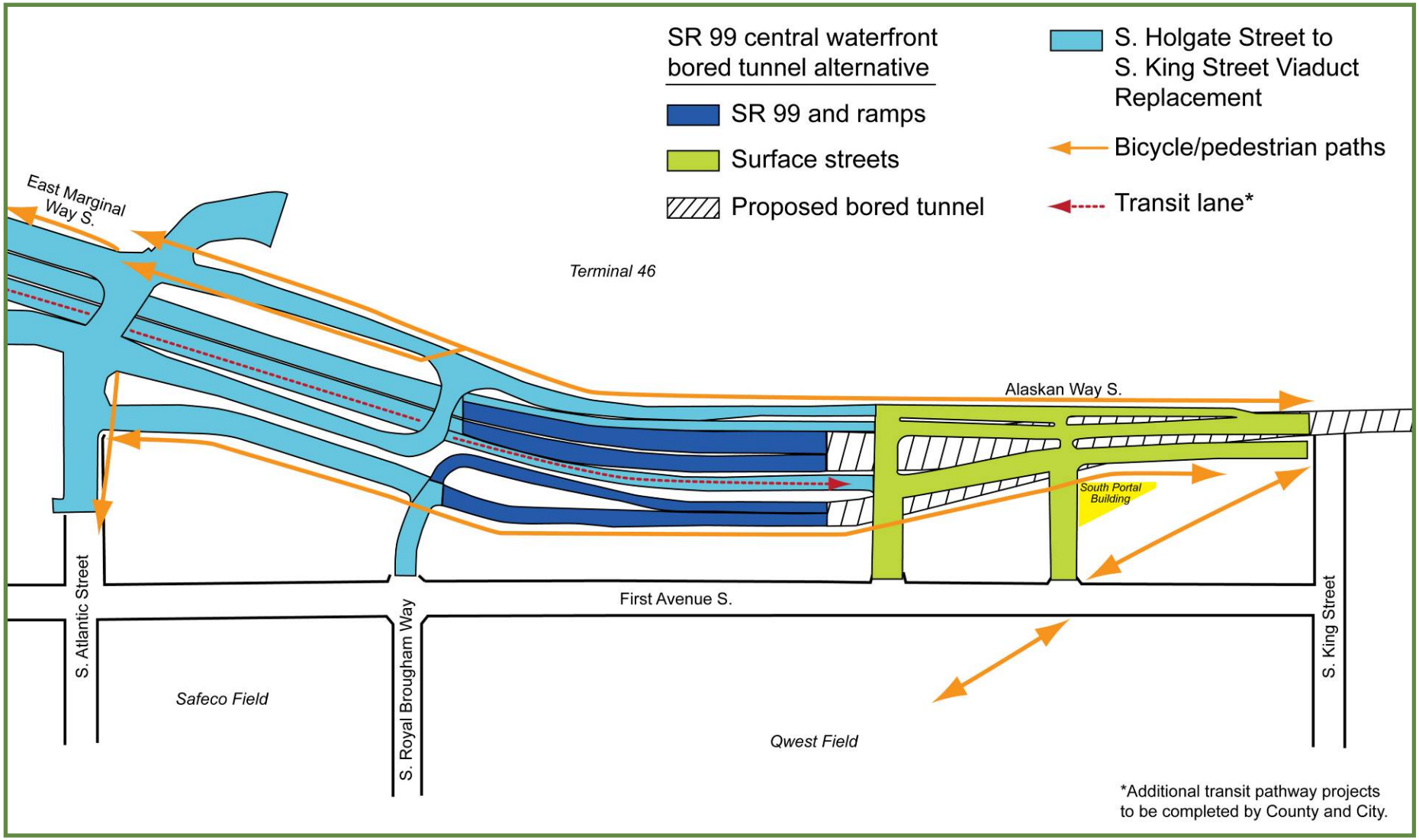
Proposed Bored Tunnel Timeline*



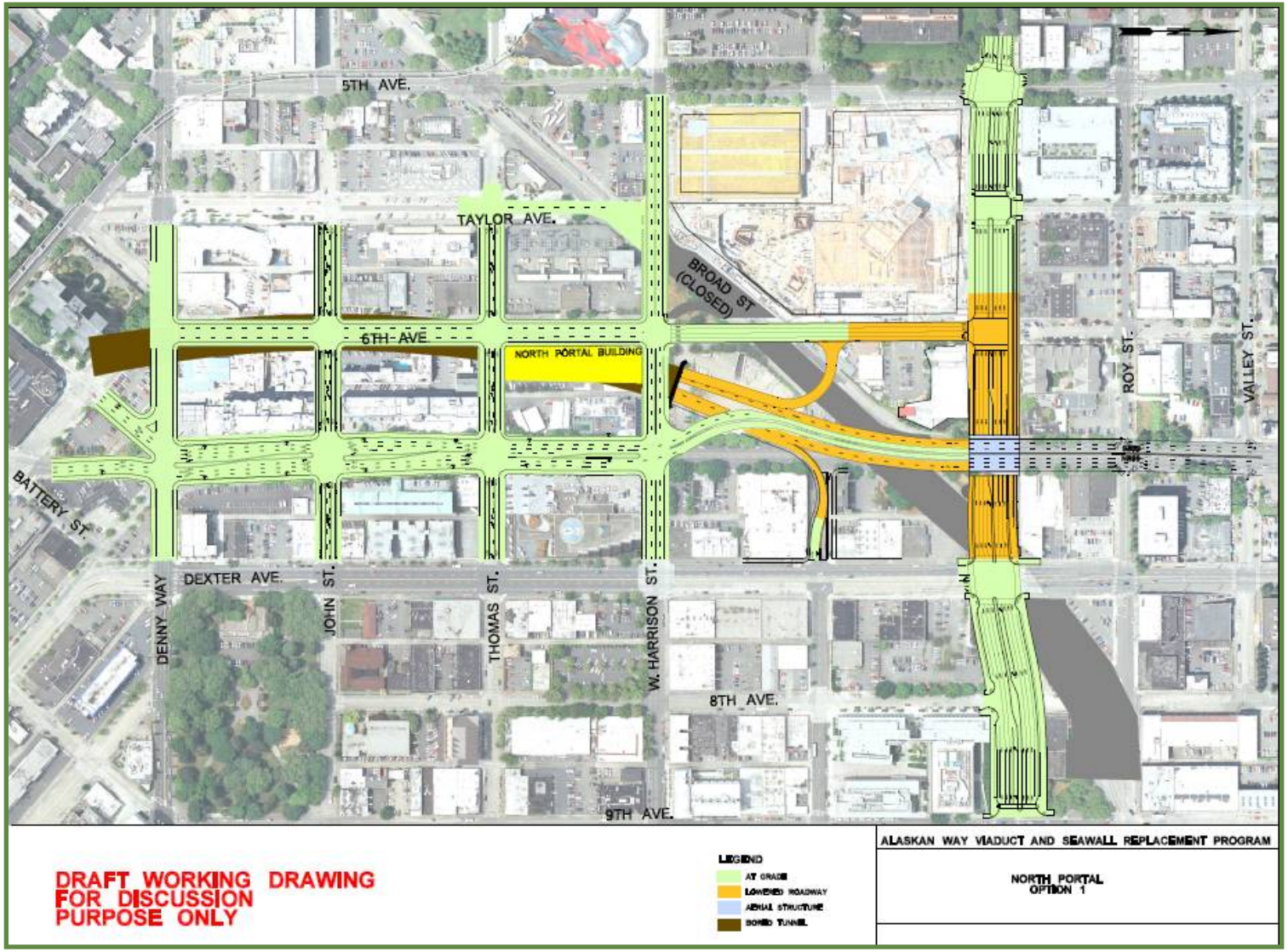
*Assumes Record of Decision (ROD) for the bored tunnel alternative is issued in 2011.

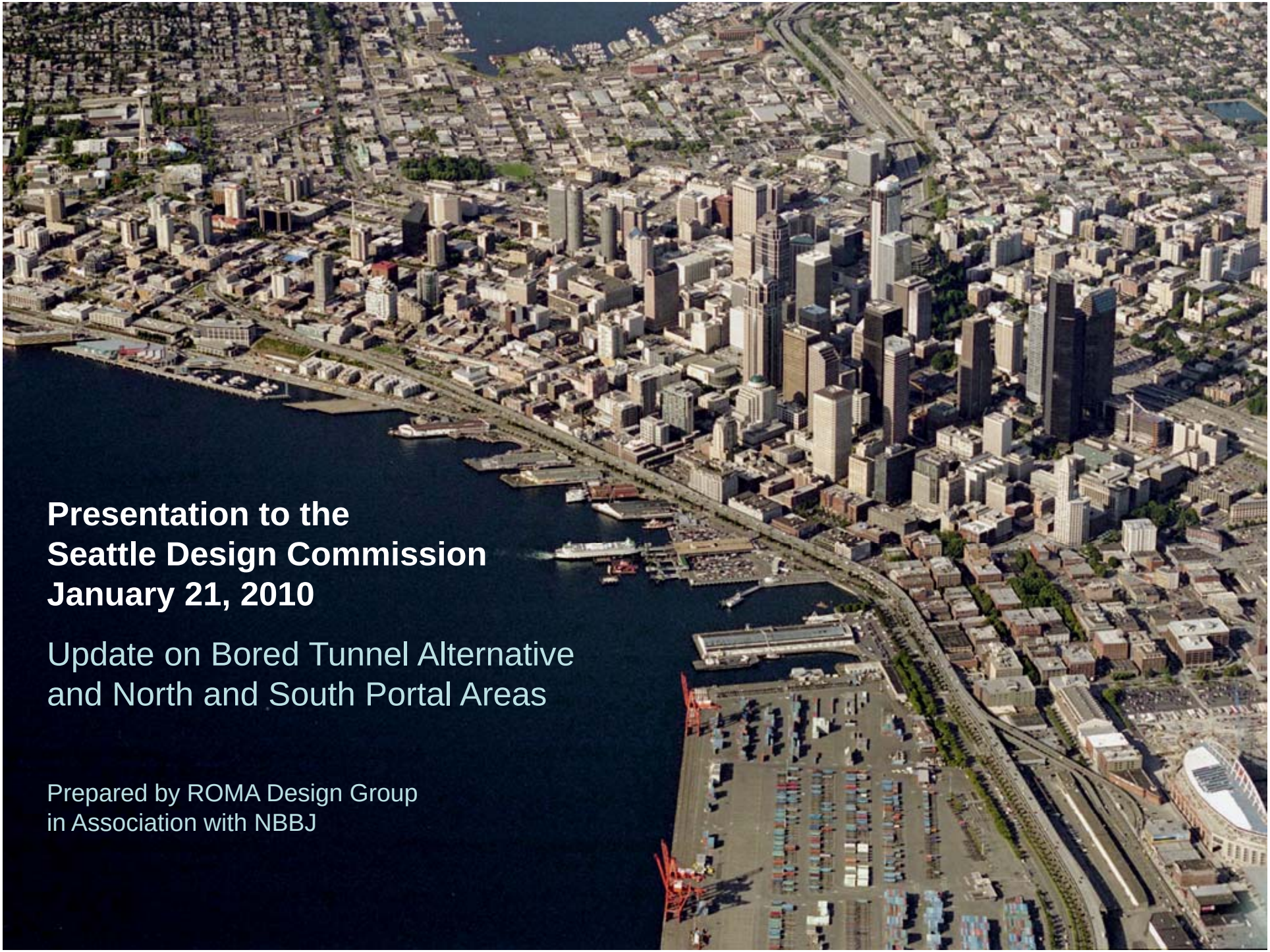
New Proposed SR 99 Bored Tunnel Alignment

New Proposed South Portal



New Proposed North Portal – Option 1



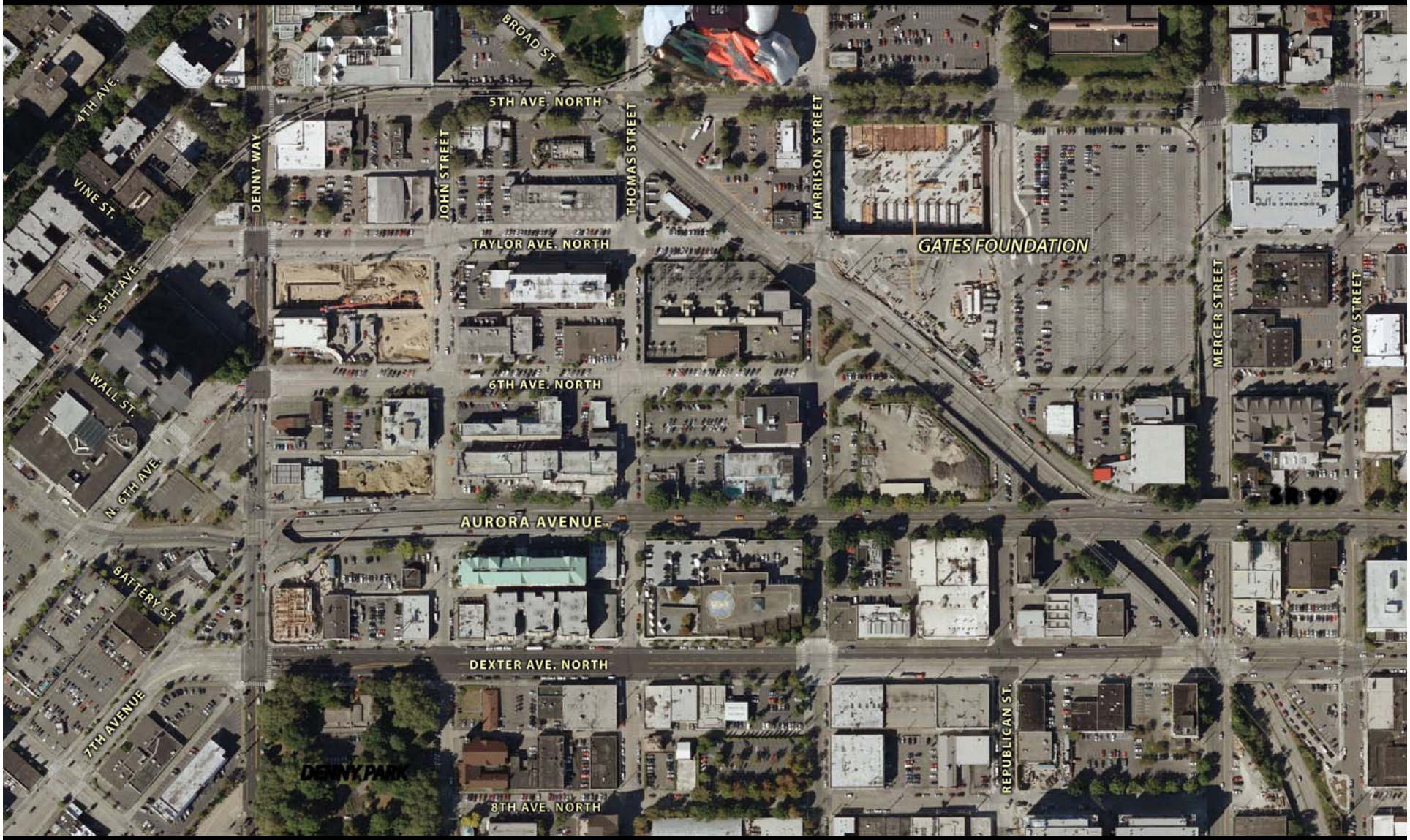


Presentation to the
Seattle Design Commission
January 21, 2010

Update on Bored Tunnel Alternative
and North and South Portal Areas

Prepared by ROMA Design Group
in Association with NBBJ

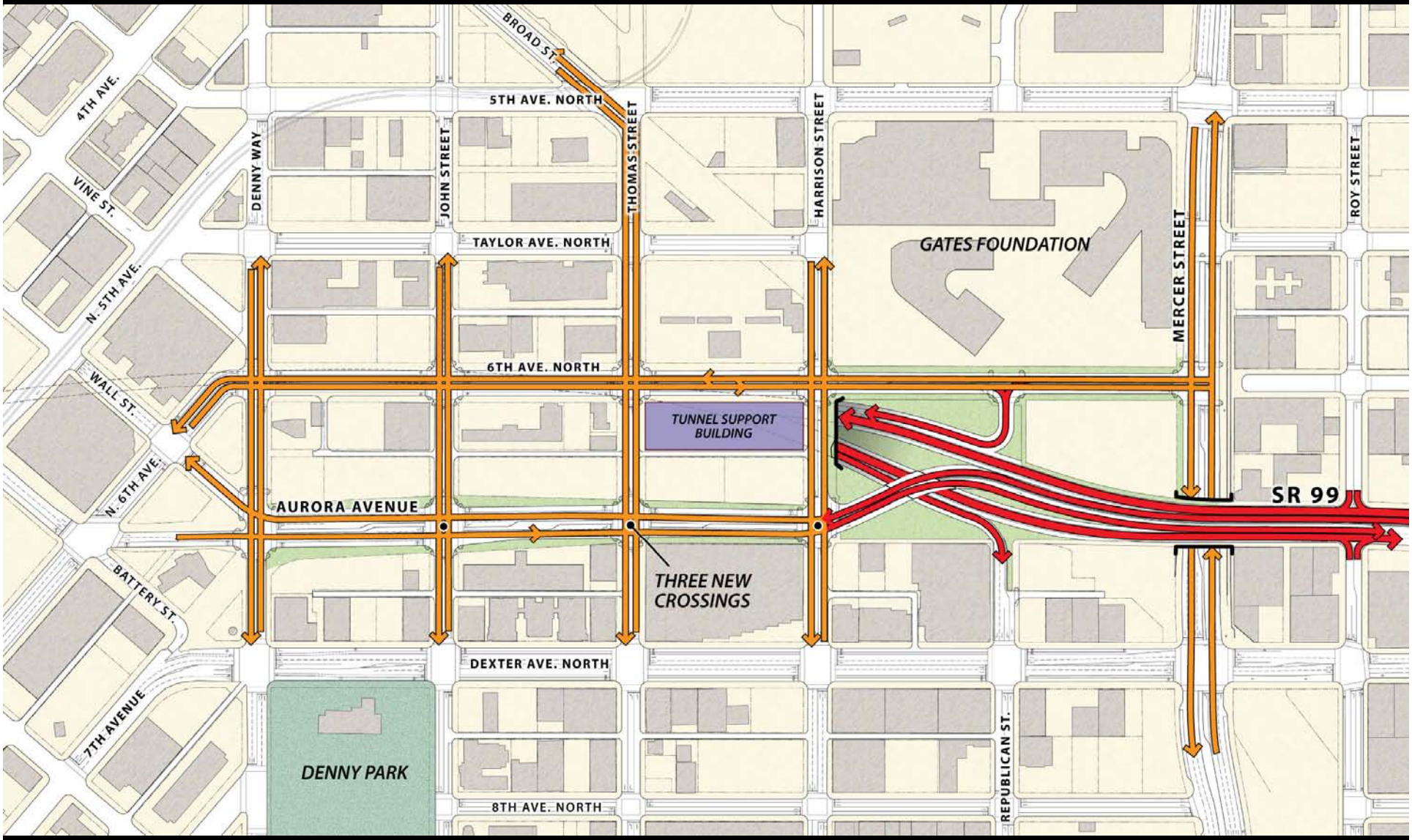
Existing North Portal Area



NORTH PORTAL

BORED TUNNEL ALTERNATIVE

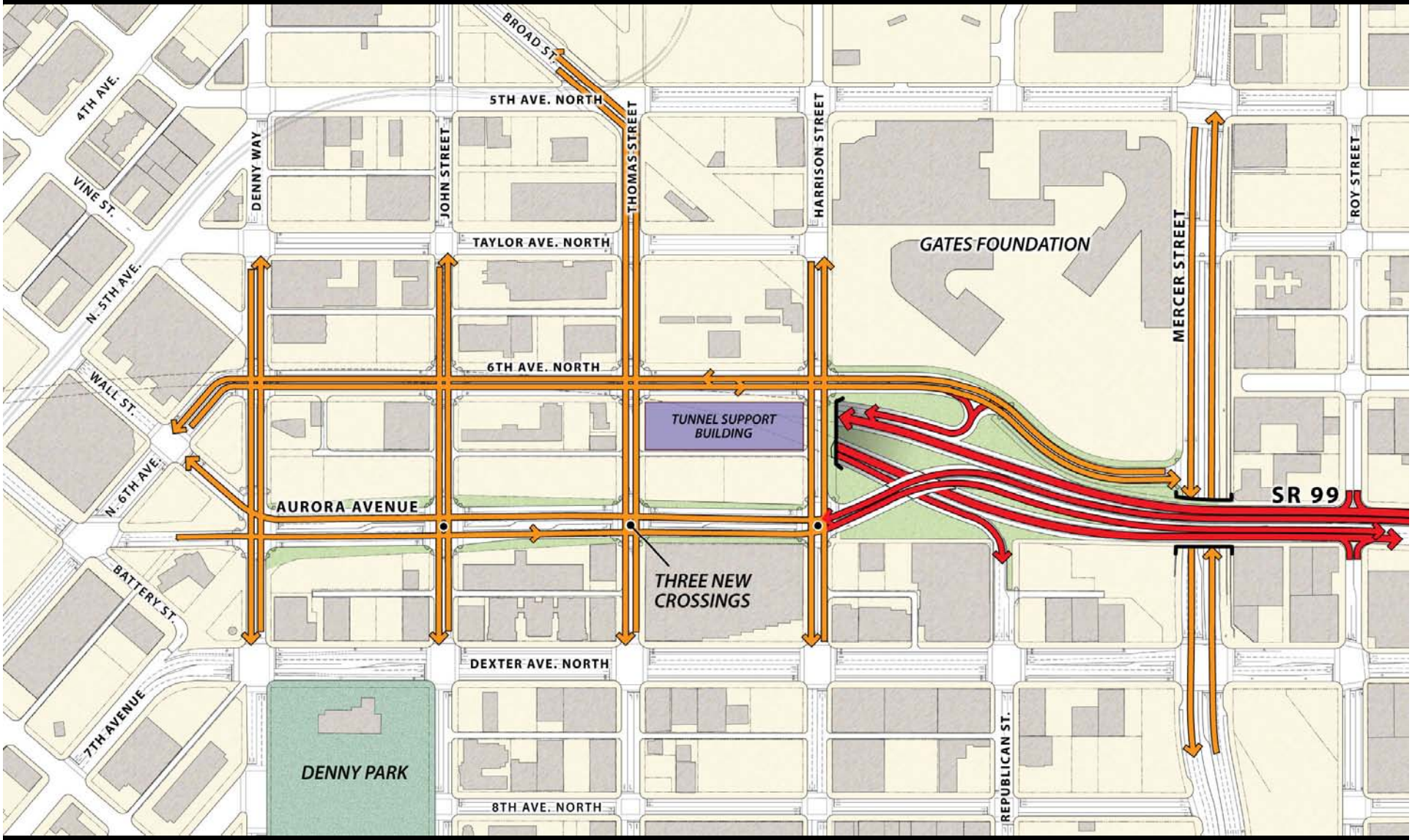
Elements



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

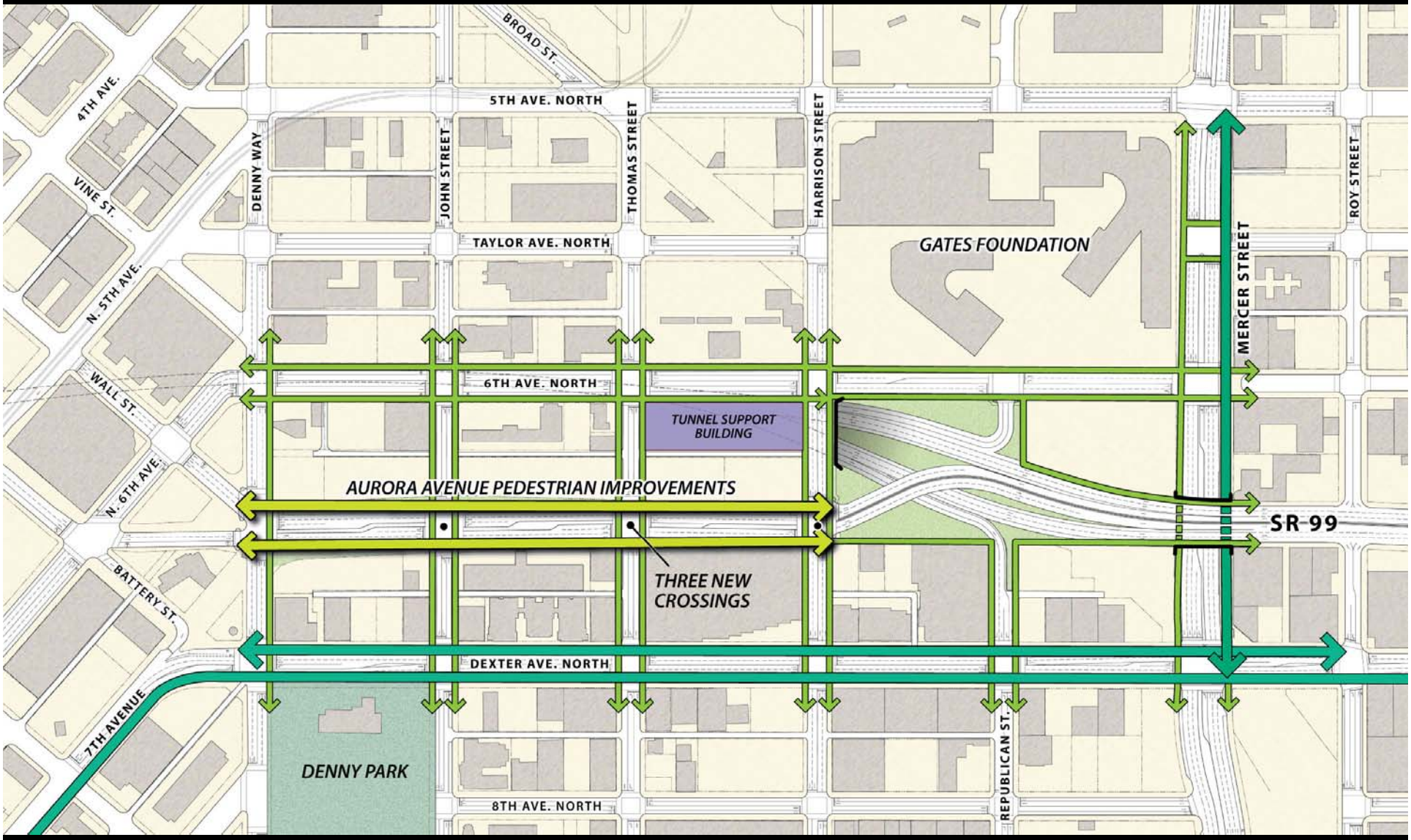
Elements



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

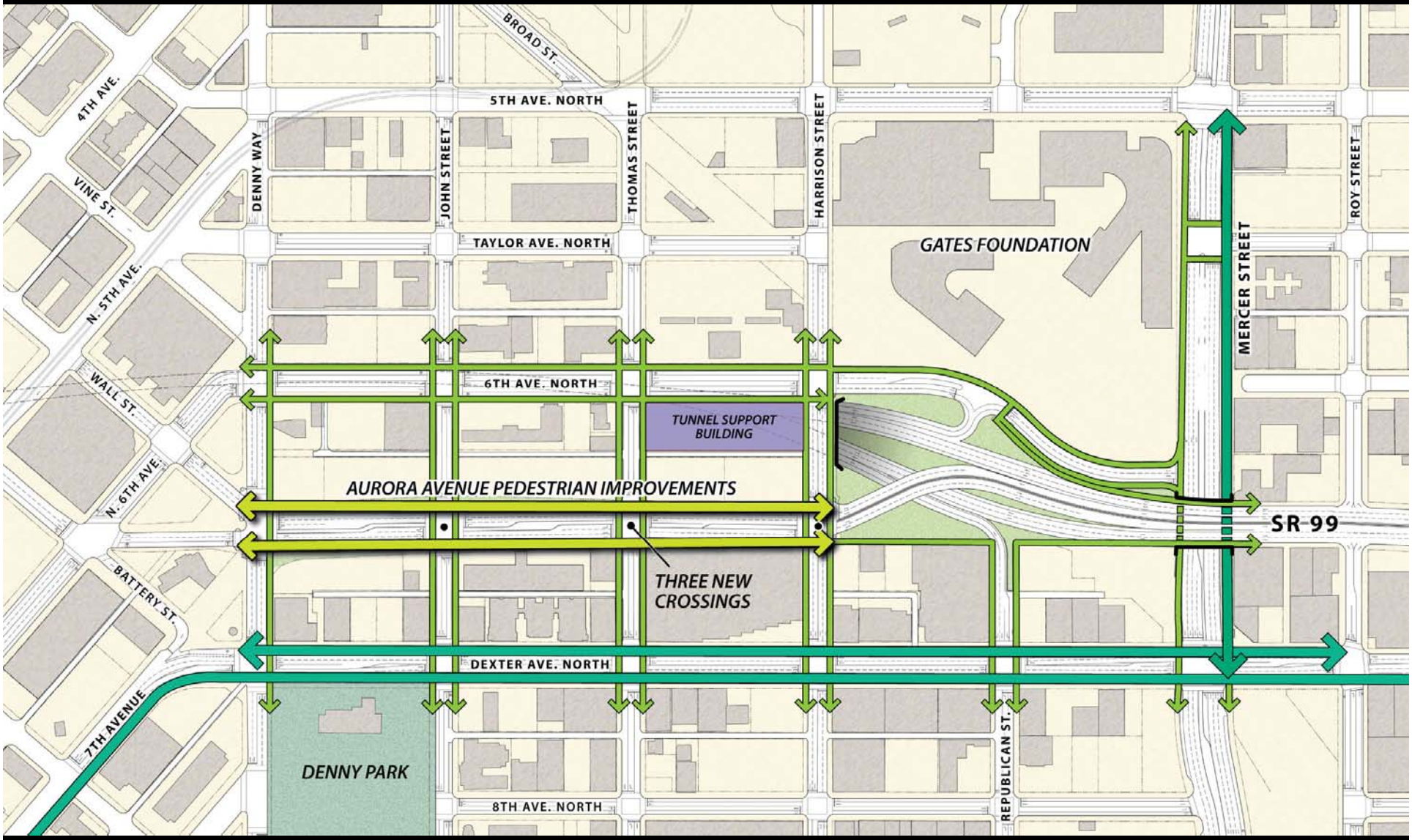
Pedestrian and Bicycle Access



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

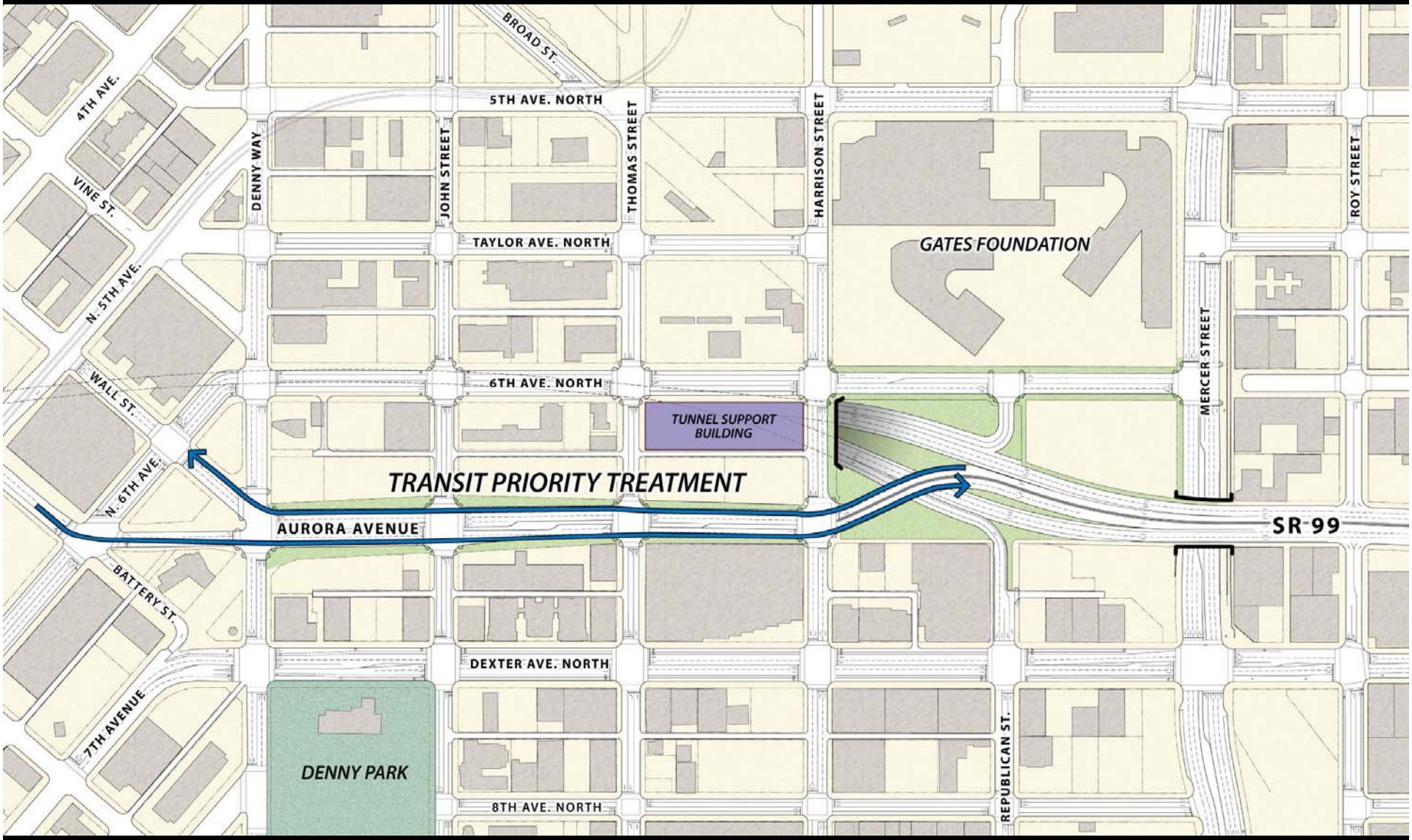
Pedestrian and Bicycle Access



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

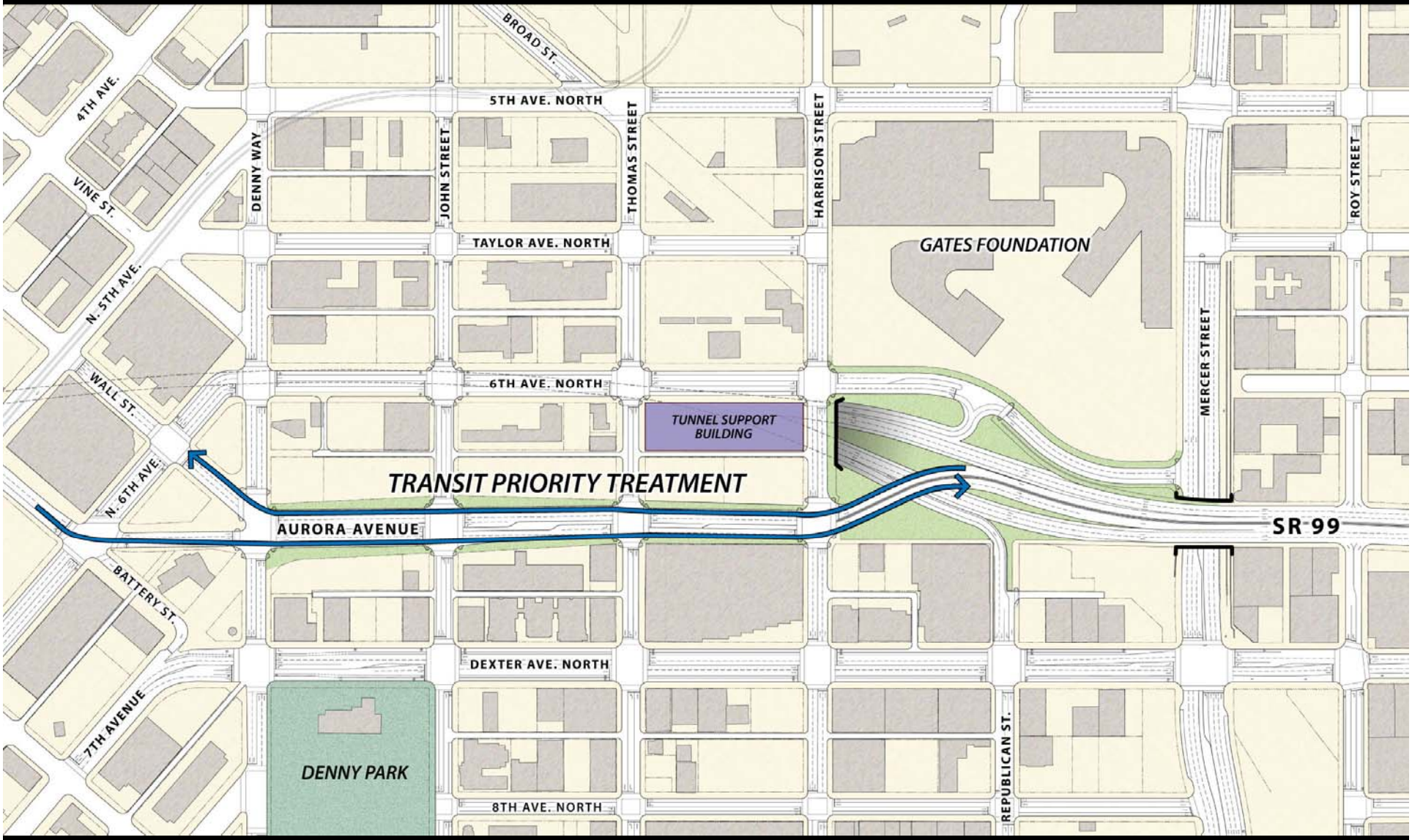
Transit Access



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

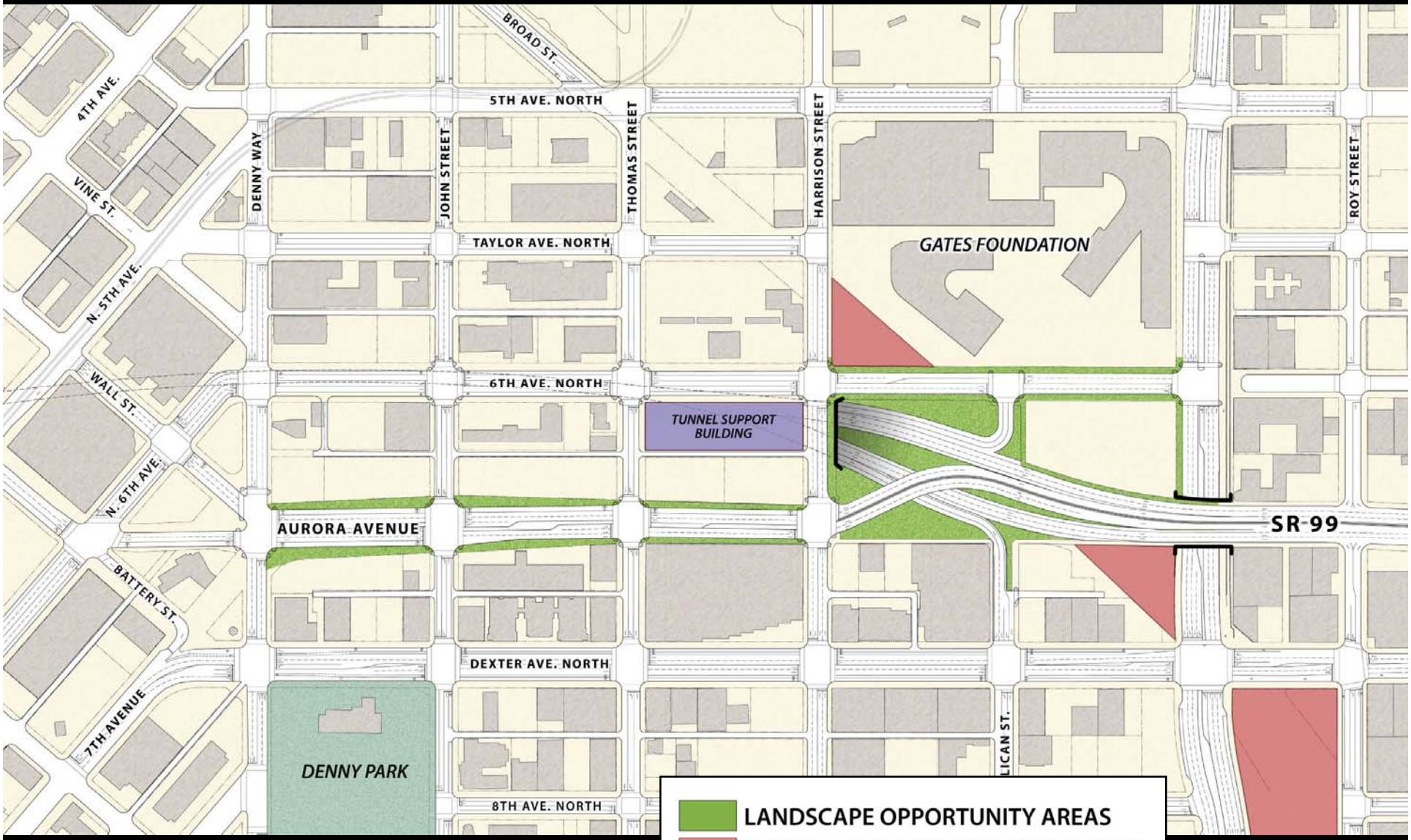
Transit Access



NORTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Opportunity Areas



NORTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

Opportunity Areas

NORTH PORTAL: OPTION 2

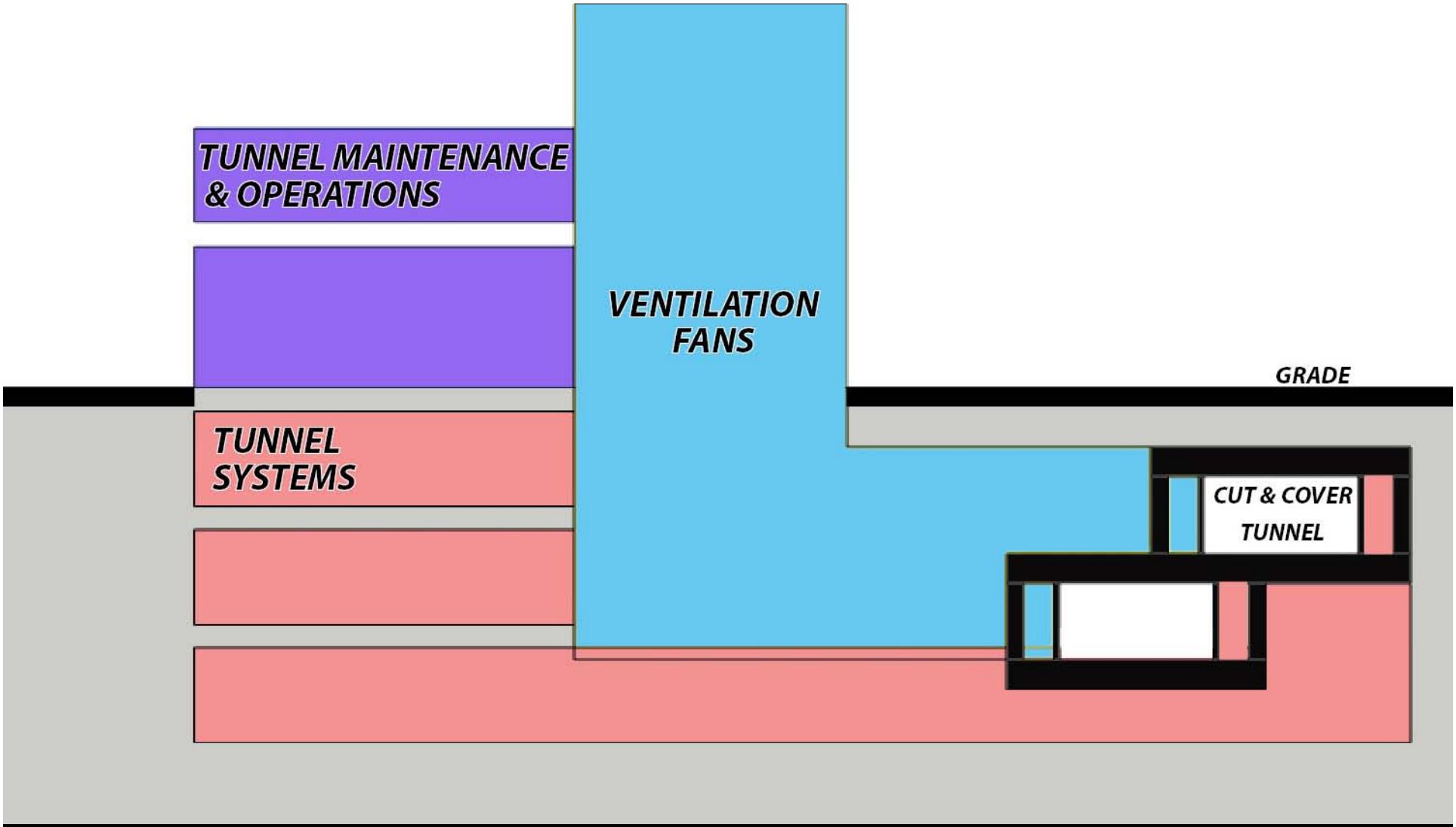
BORED TUNNEL ALTERNATIVE

Tunnel Support Buildings

PROGRAM FUNCTIONS :

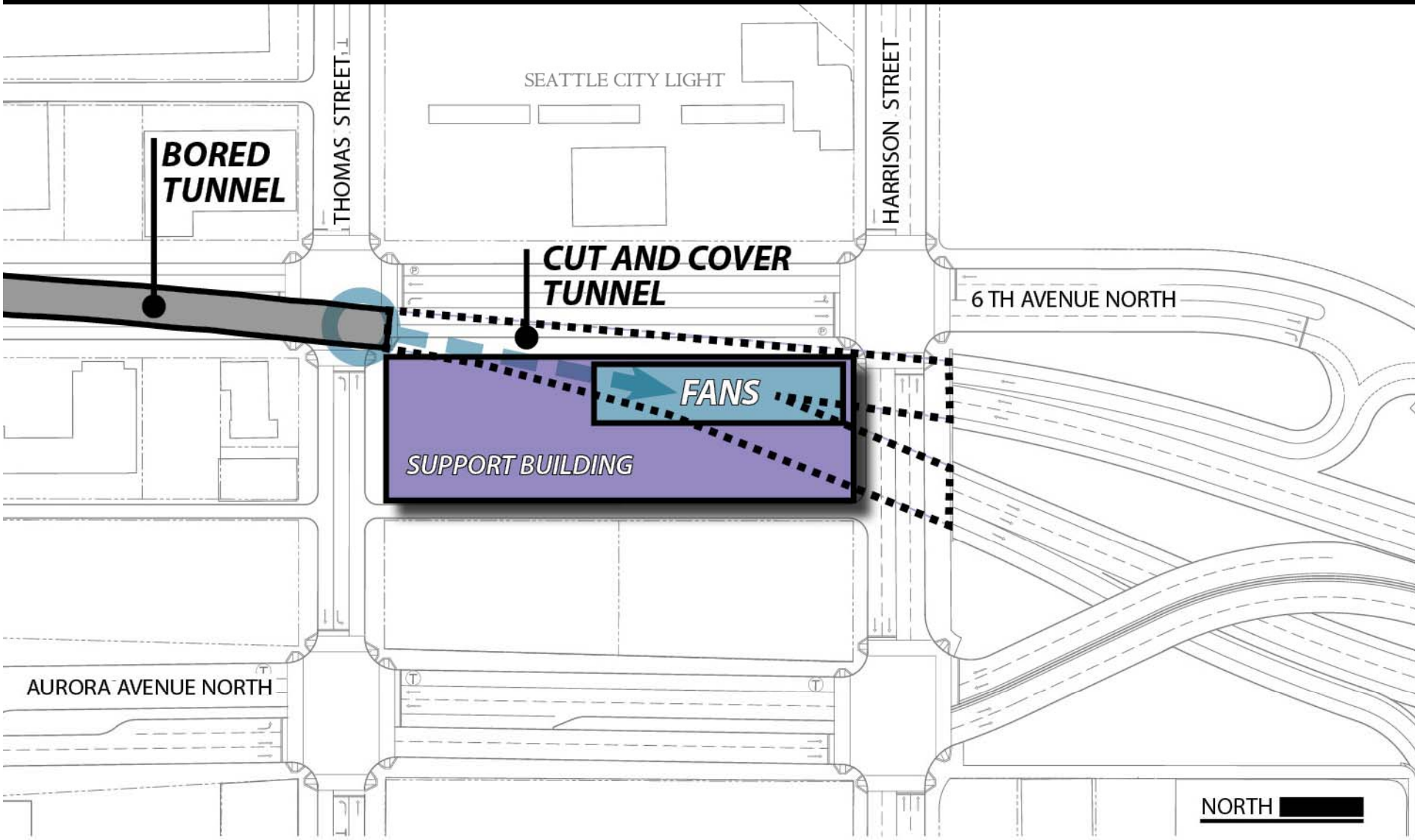
- *EMERGENCY VENTILATION; 4-5 FANS*
- *ELECTRICAL SYSTEMS AND EQUIPMENT*
- *MAINTENANCE FACILITIES WITH PARKING*
- *OPERATIONAL BACKUP AND SYSTEMS MONITORING*

Tunnel Support Buildings



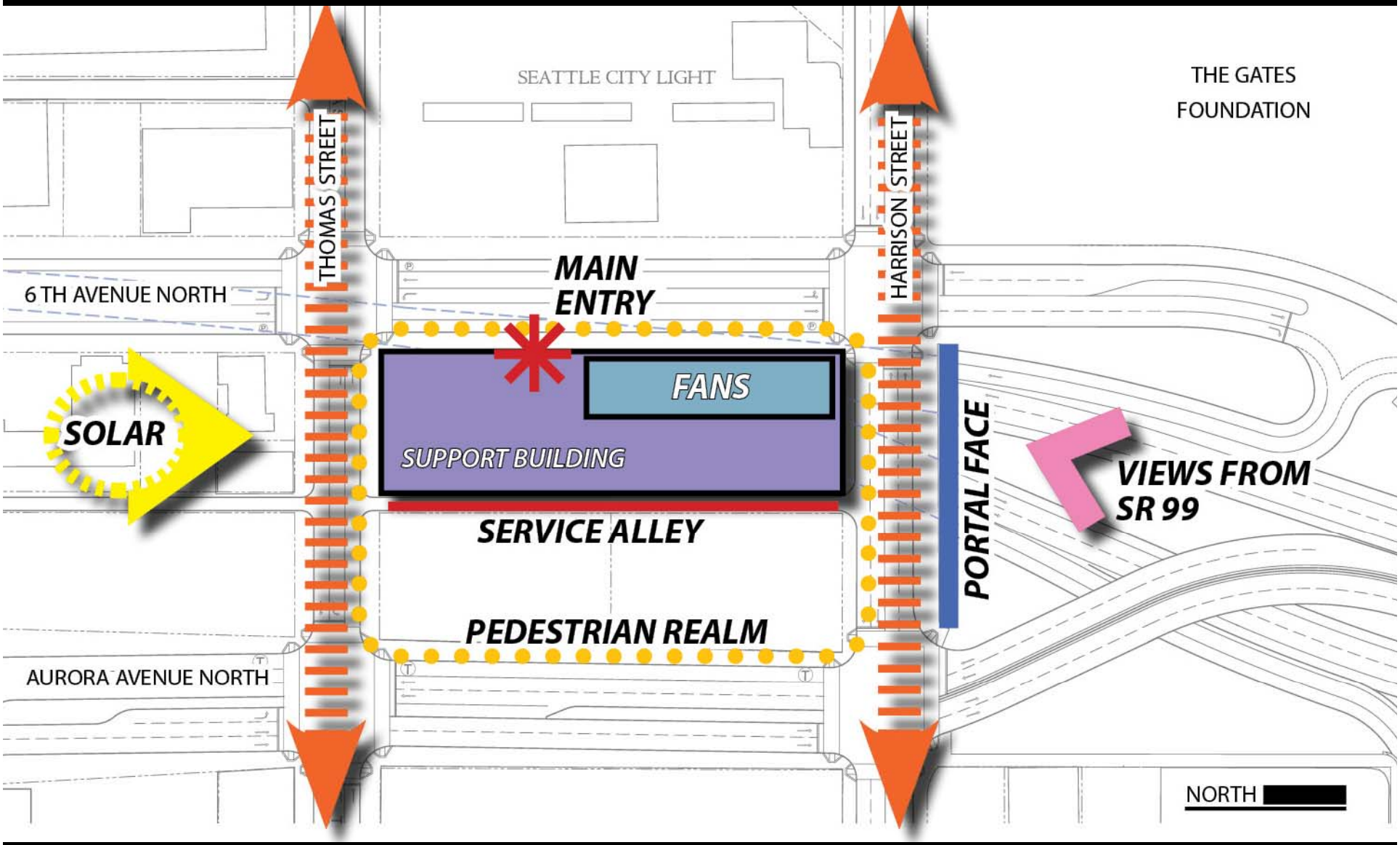
Support Building Section

Tunnel Support Buildings



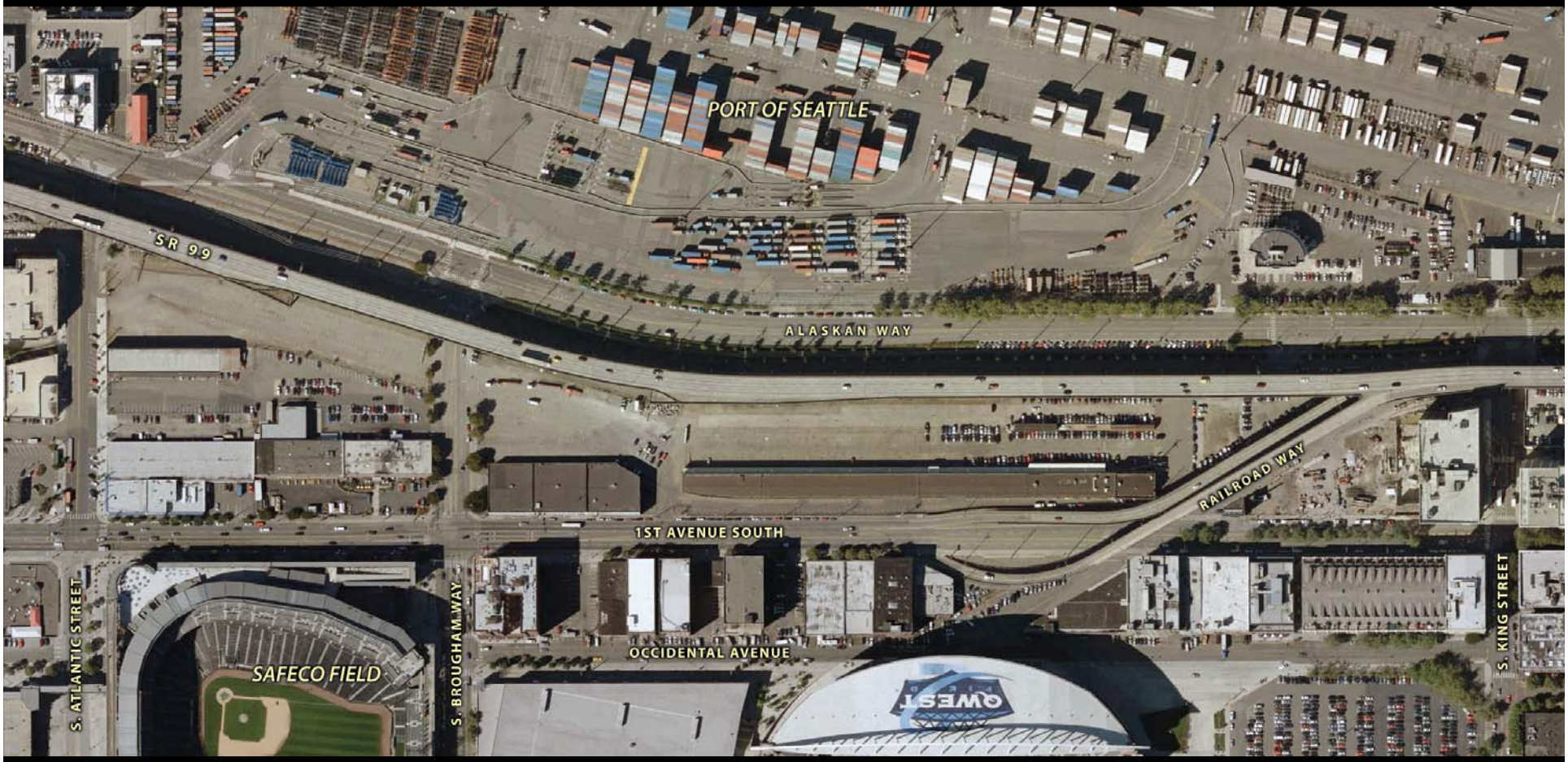
North Site Location

Tunnel Support Buildings



North Site Design Influences

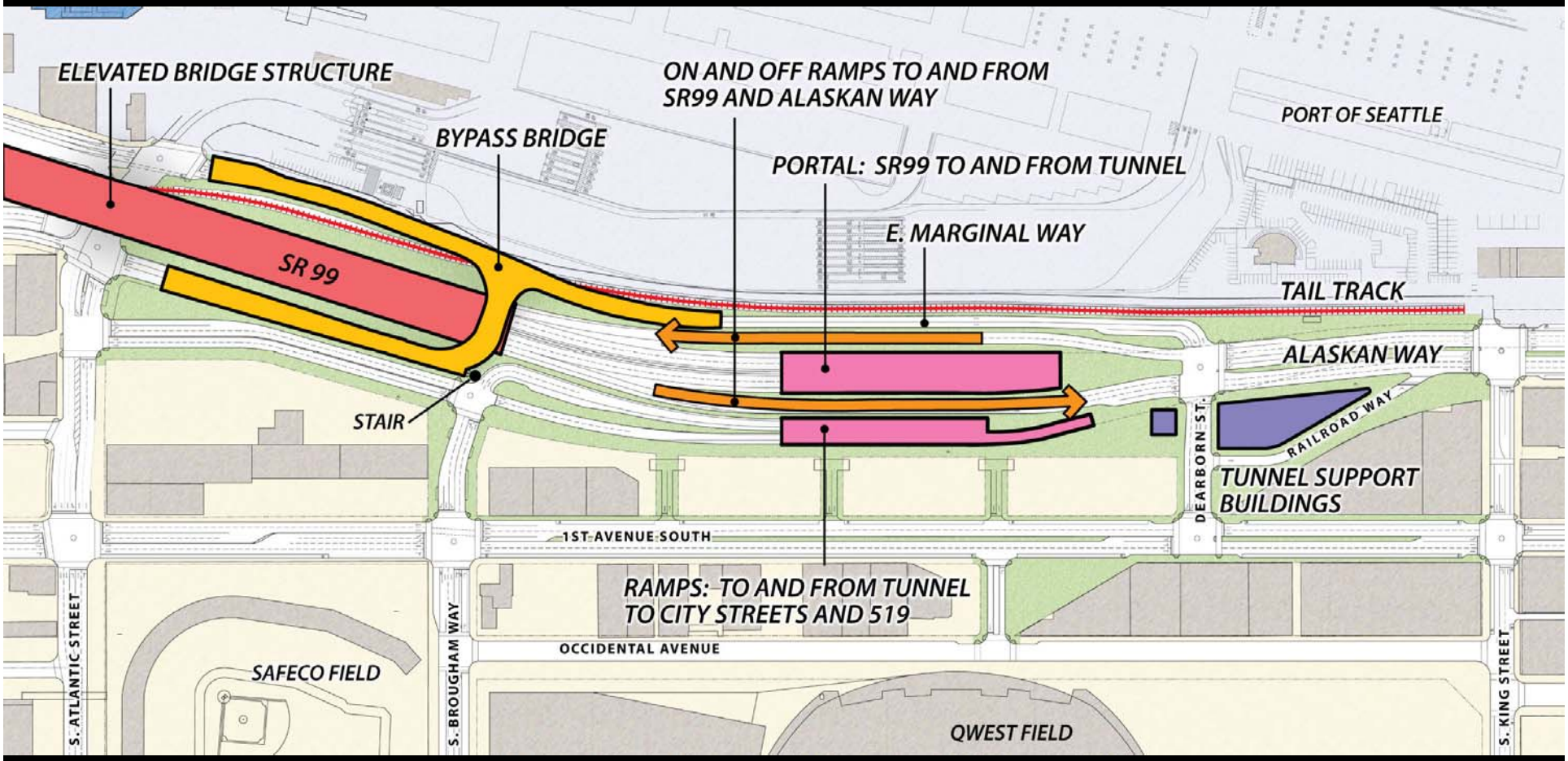
Existing South Portal Area



SOUTH PORTAL

BORED TUNNEL ALTERNATIVE

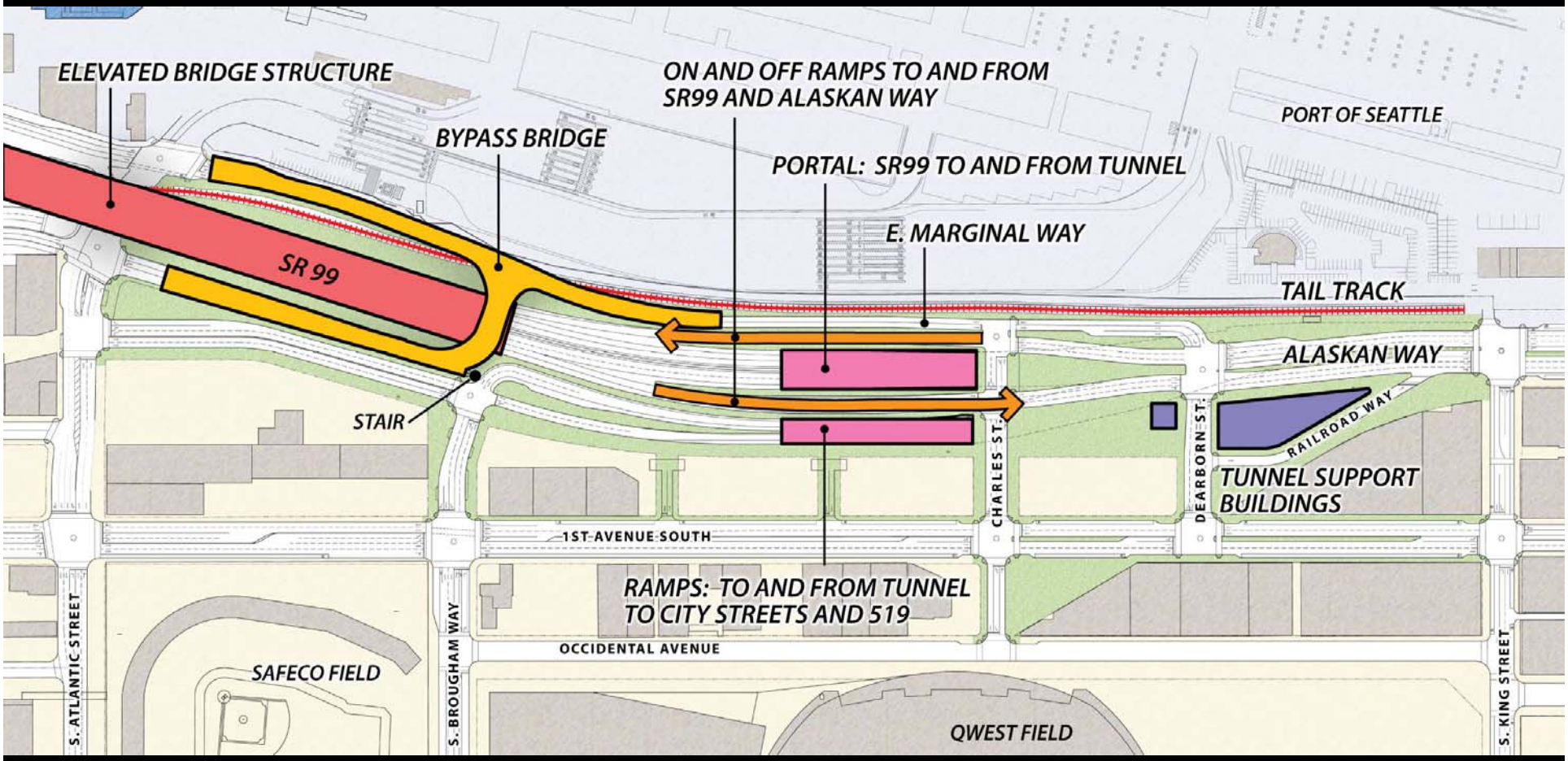
Elements



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

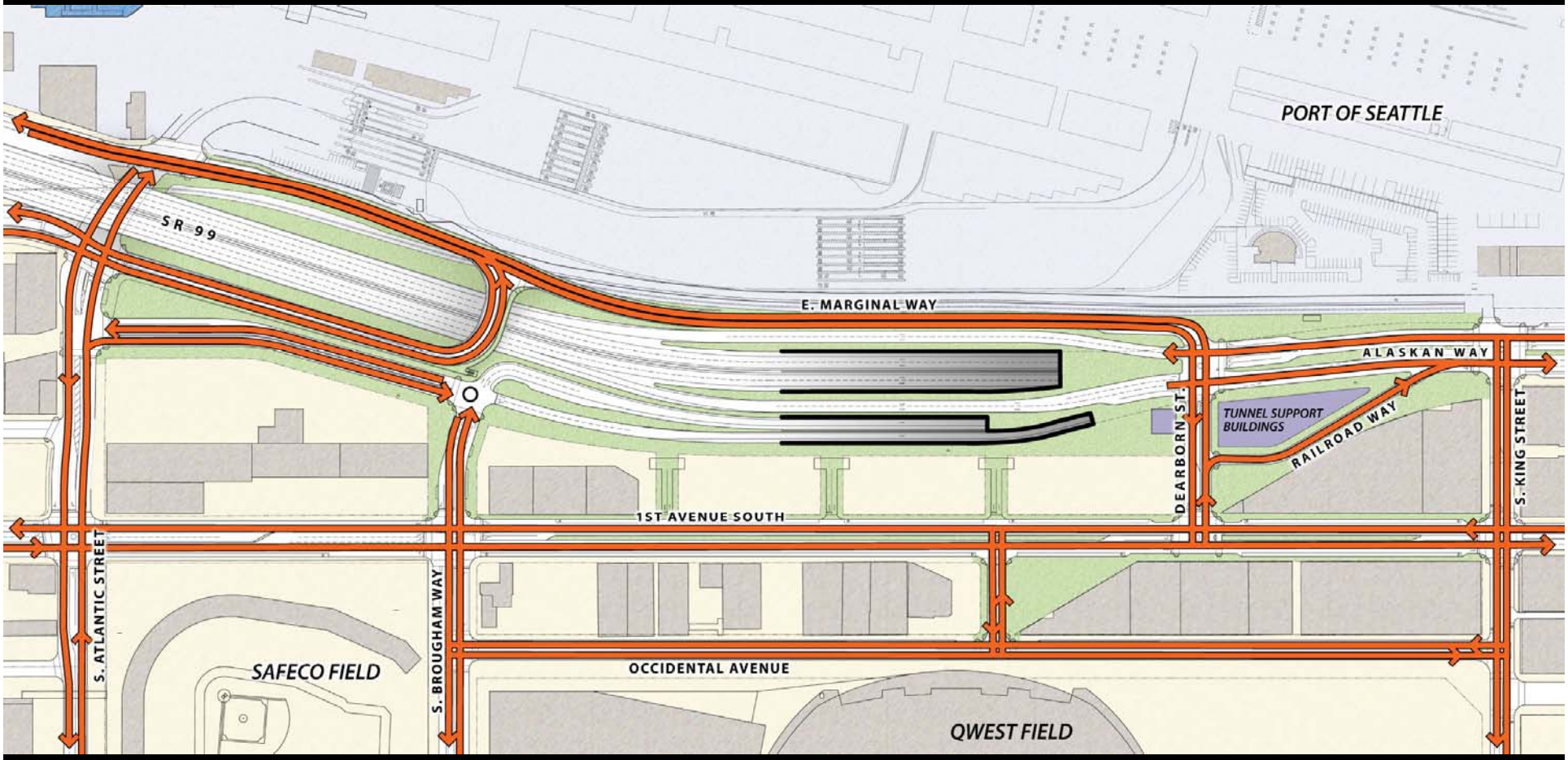
Elements



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

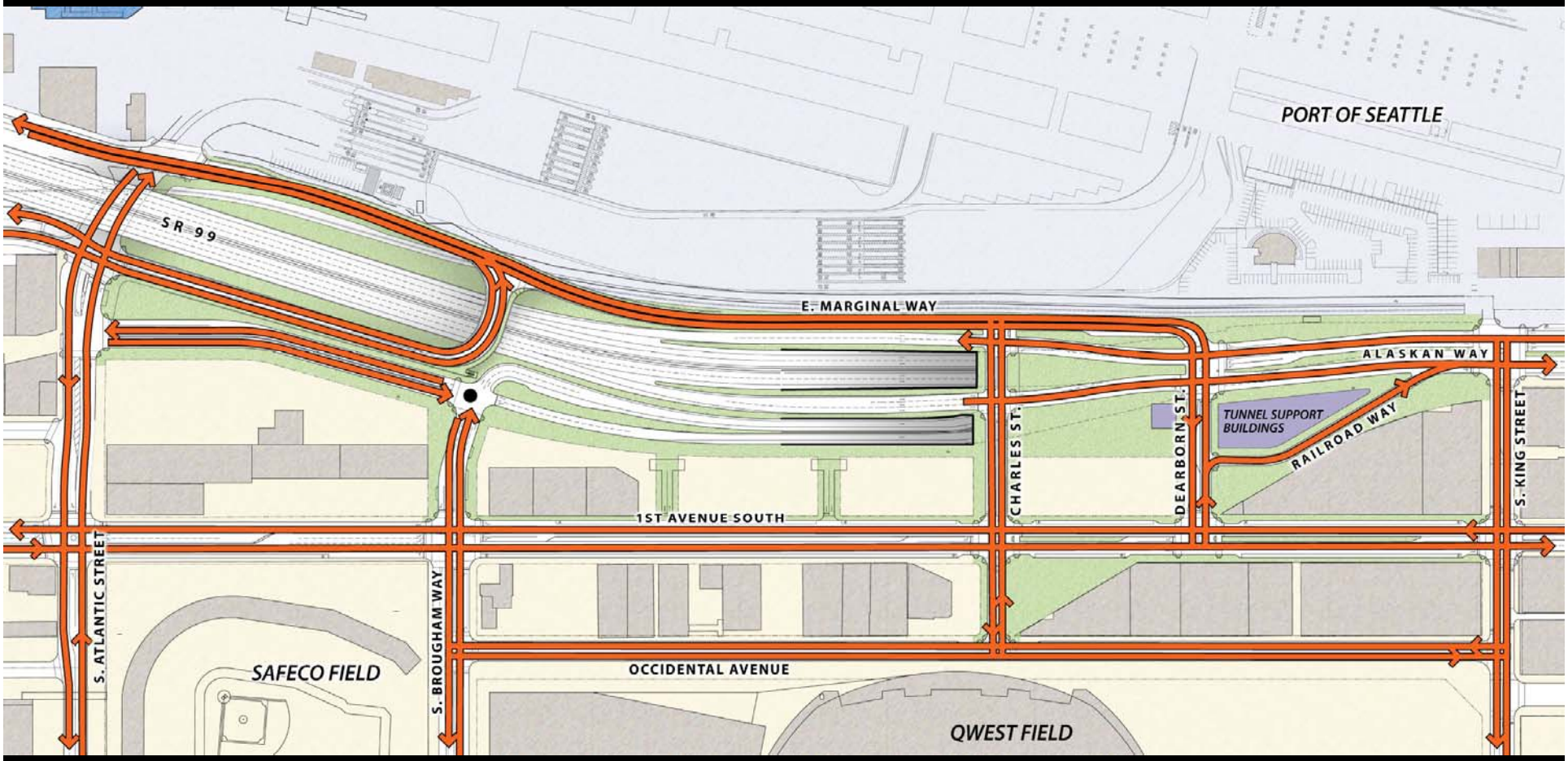
City Streets



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

City Streets

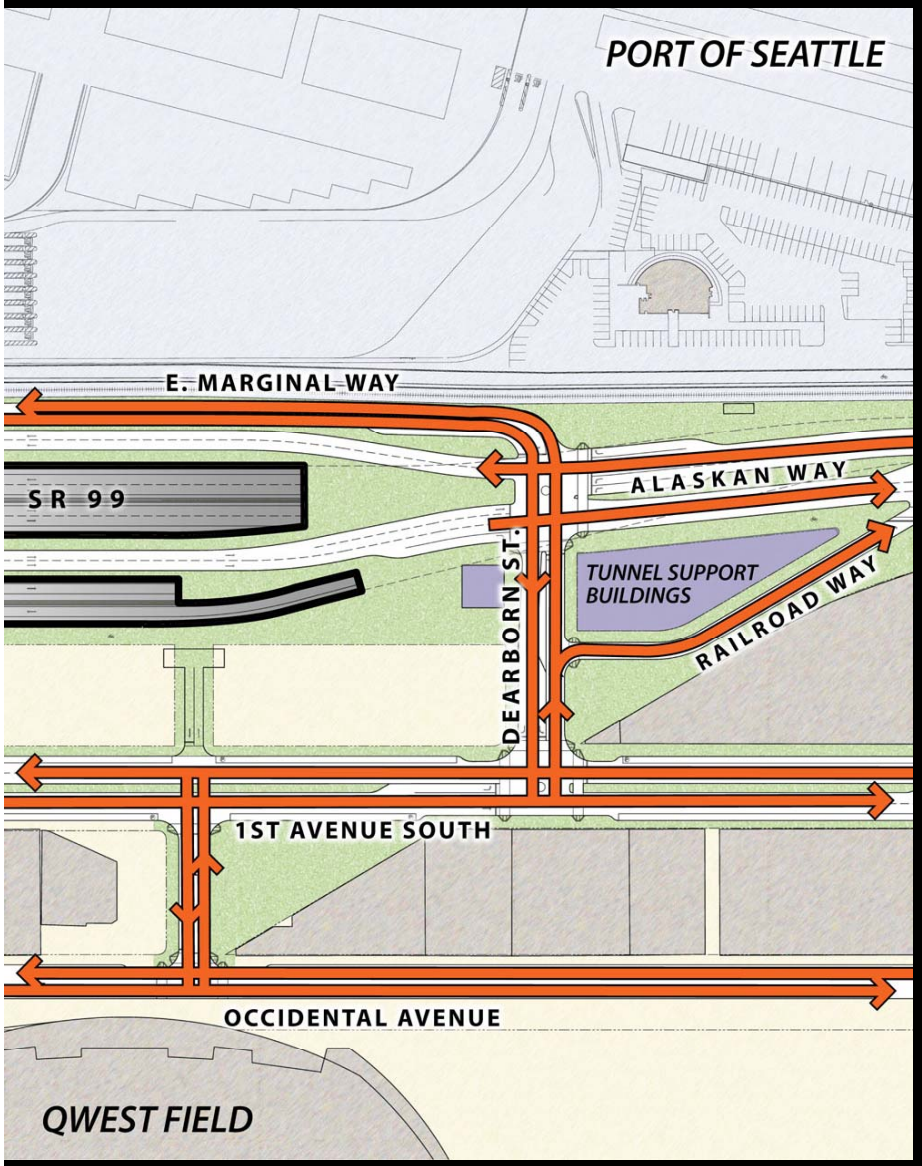


SOUTH PORTAL: OPTION 2

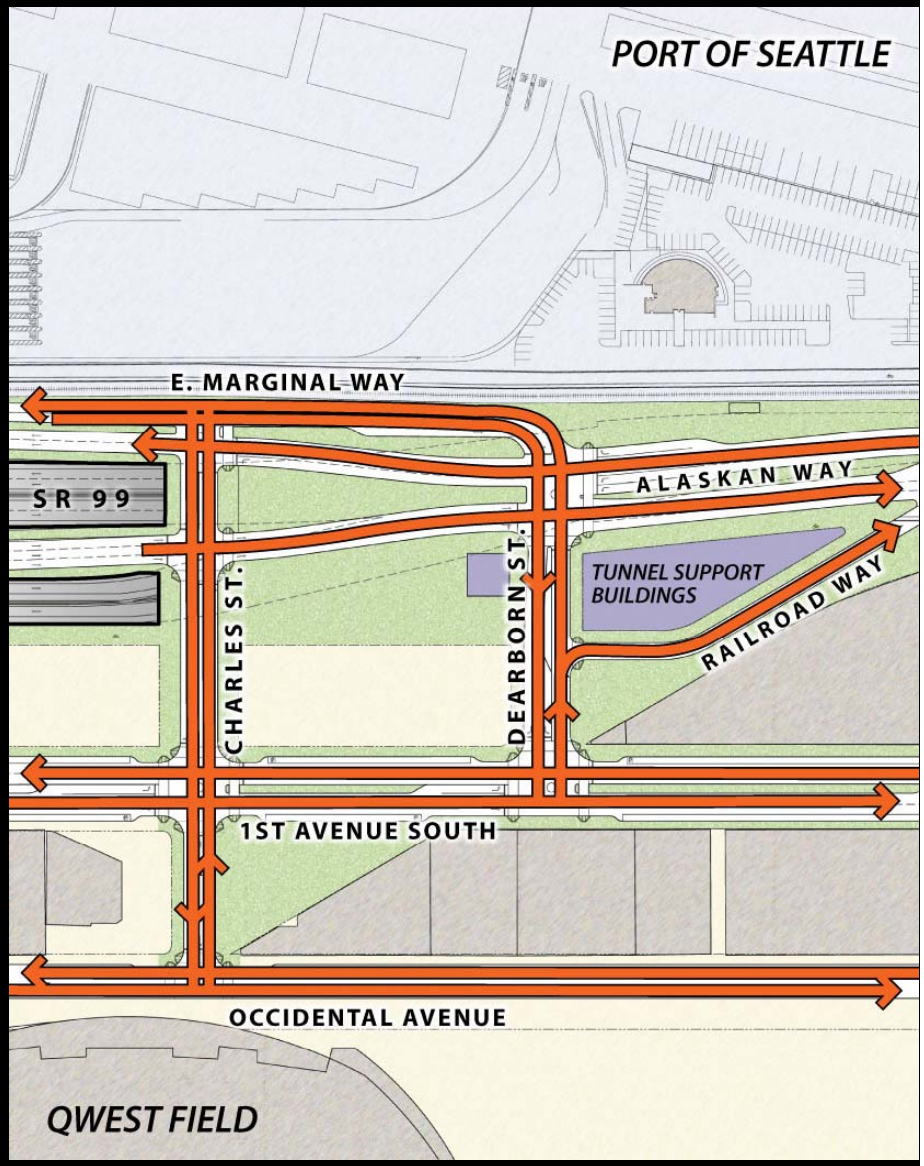
BORED TUNNEL ALTERNATIVE

Comparison

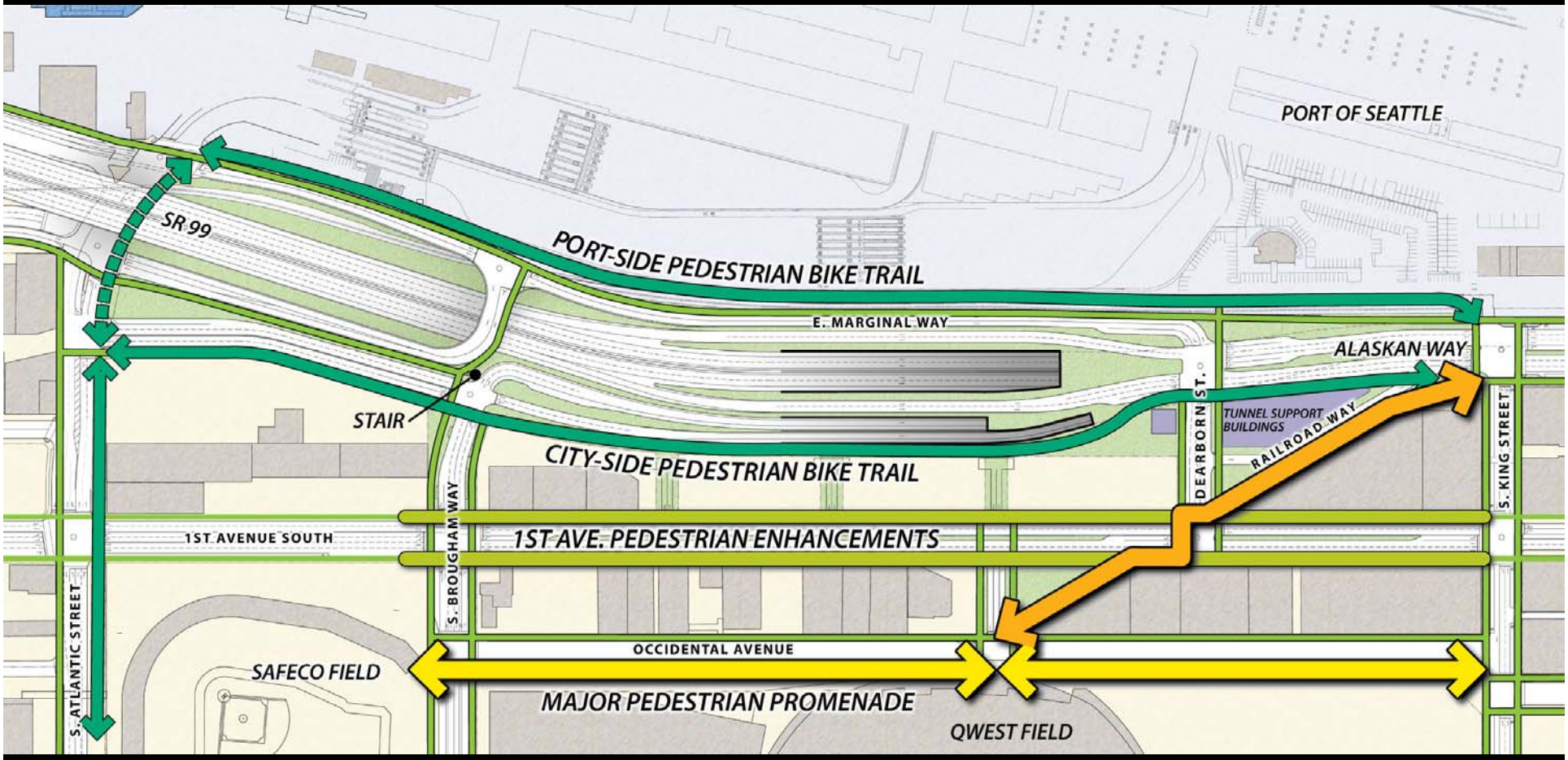
OPTION 1



OPTION 2



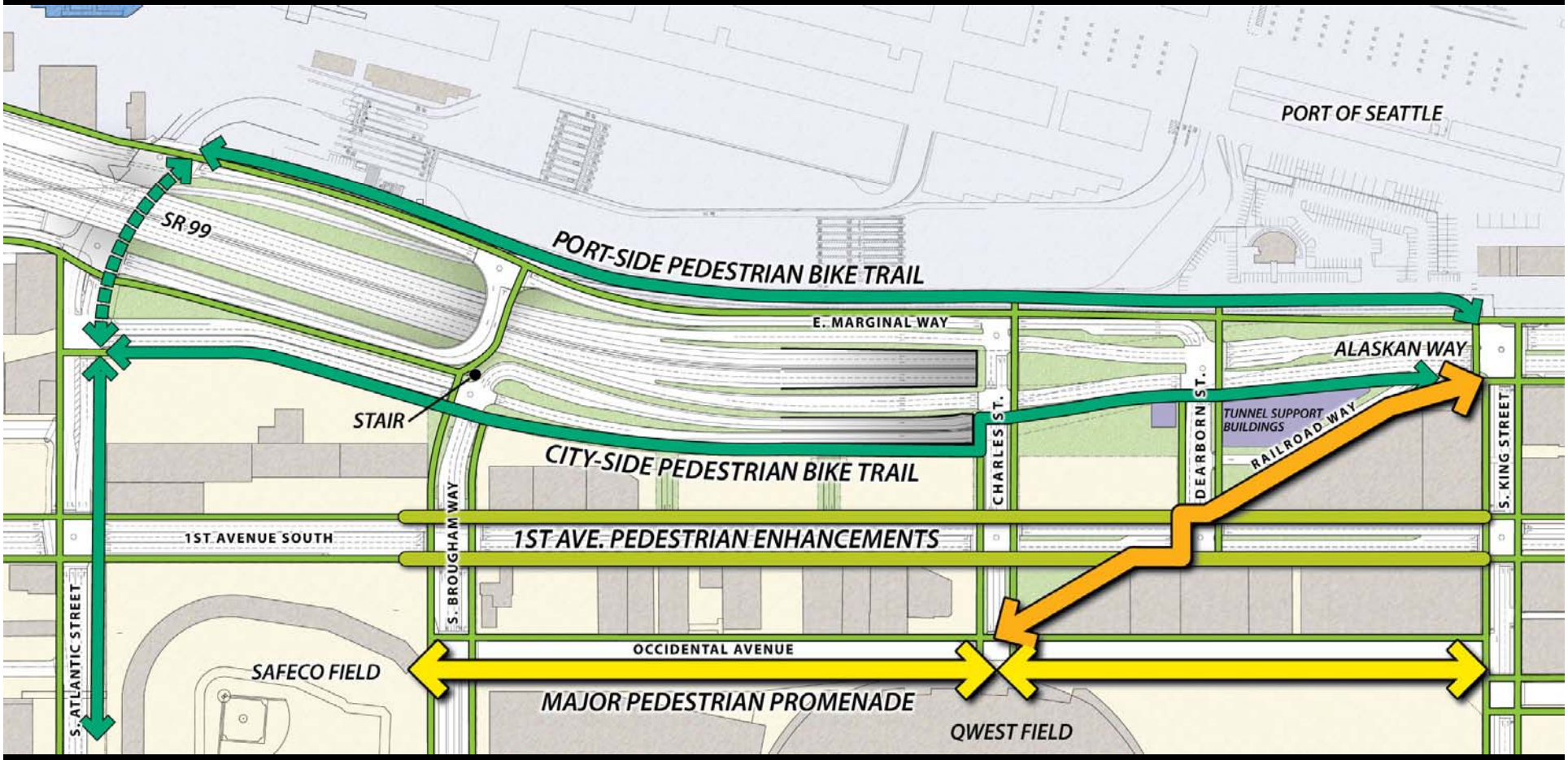
Pedestrian and Bicycle Access



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

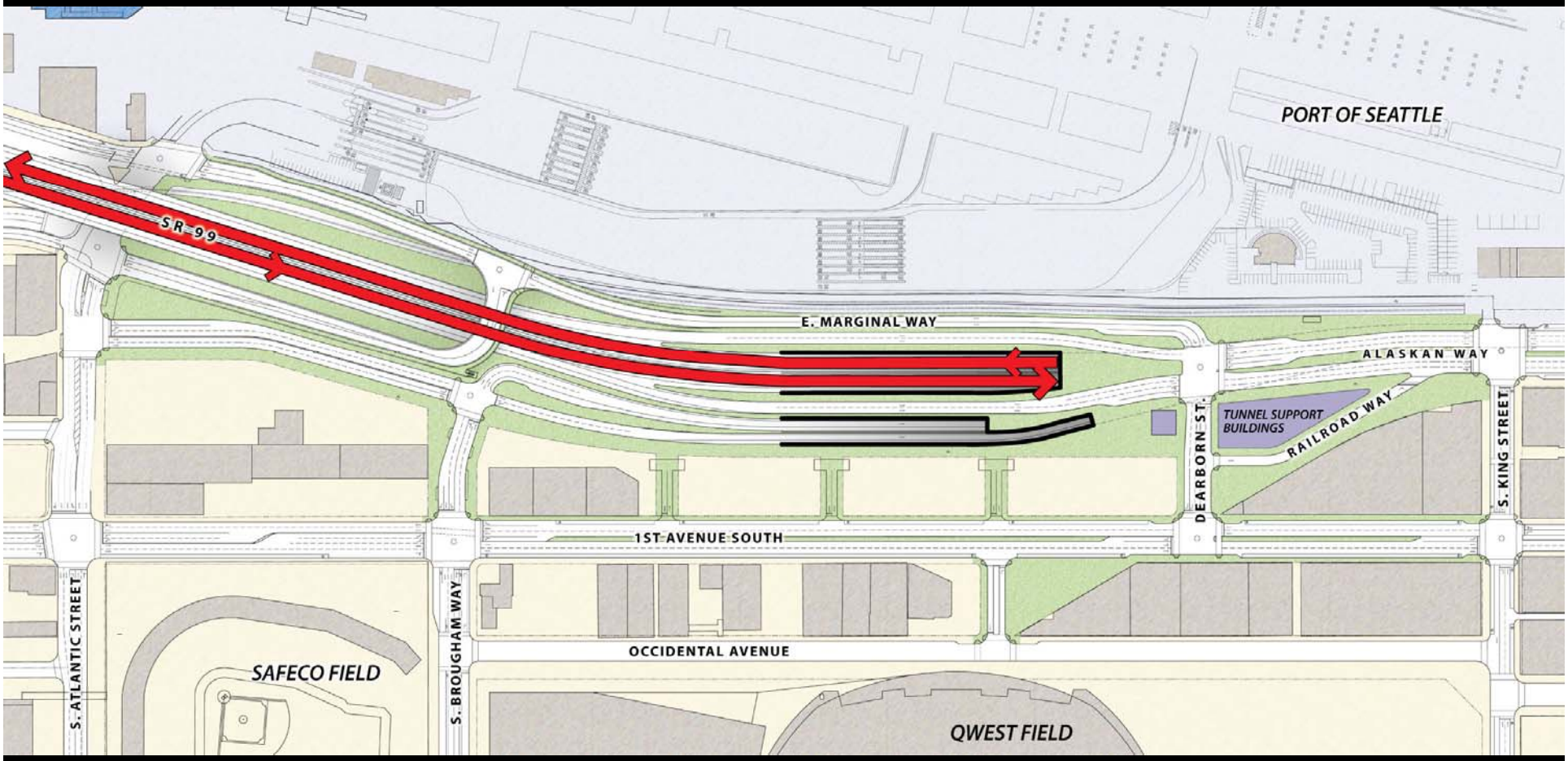
Pedestrian and Bicycle Access



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

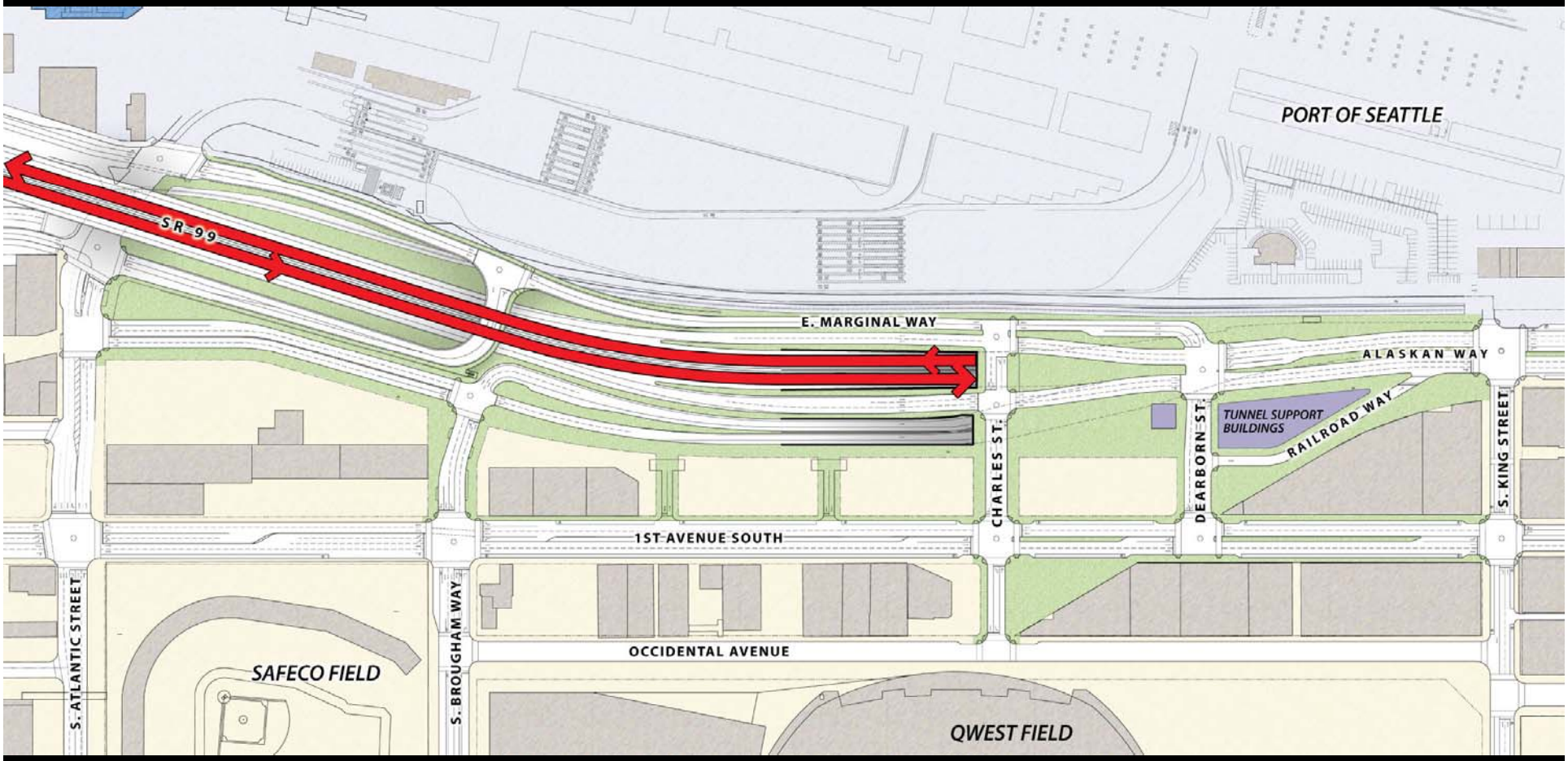
Circulation: SR-99 Tunnel



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

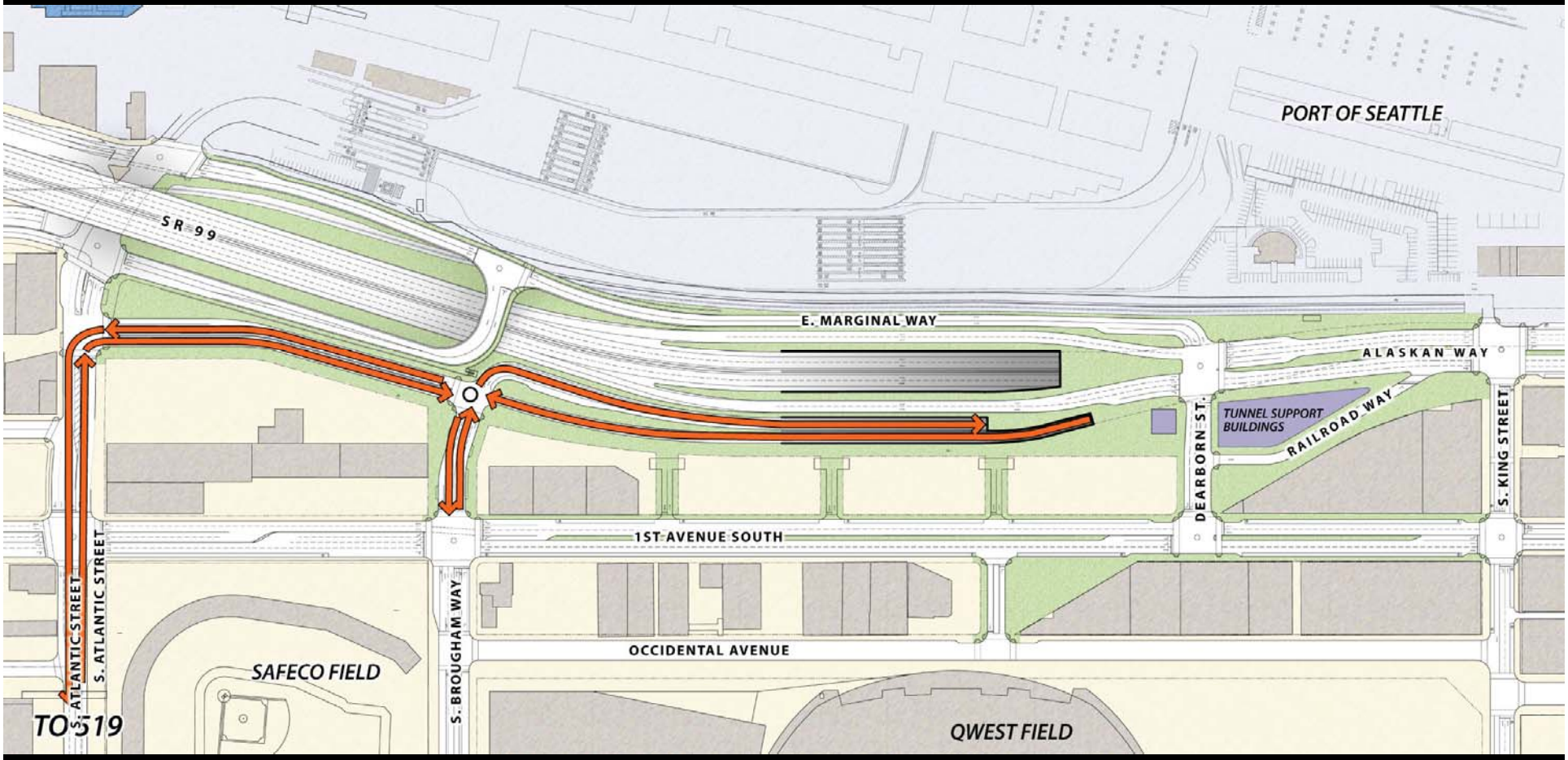
Circulation: SR-99 Tunnel



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

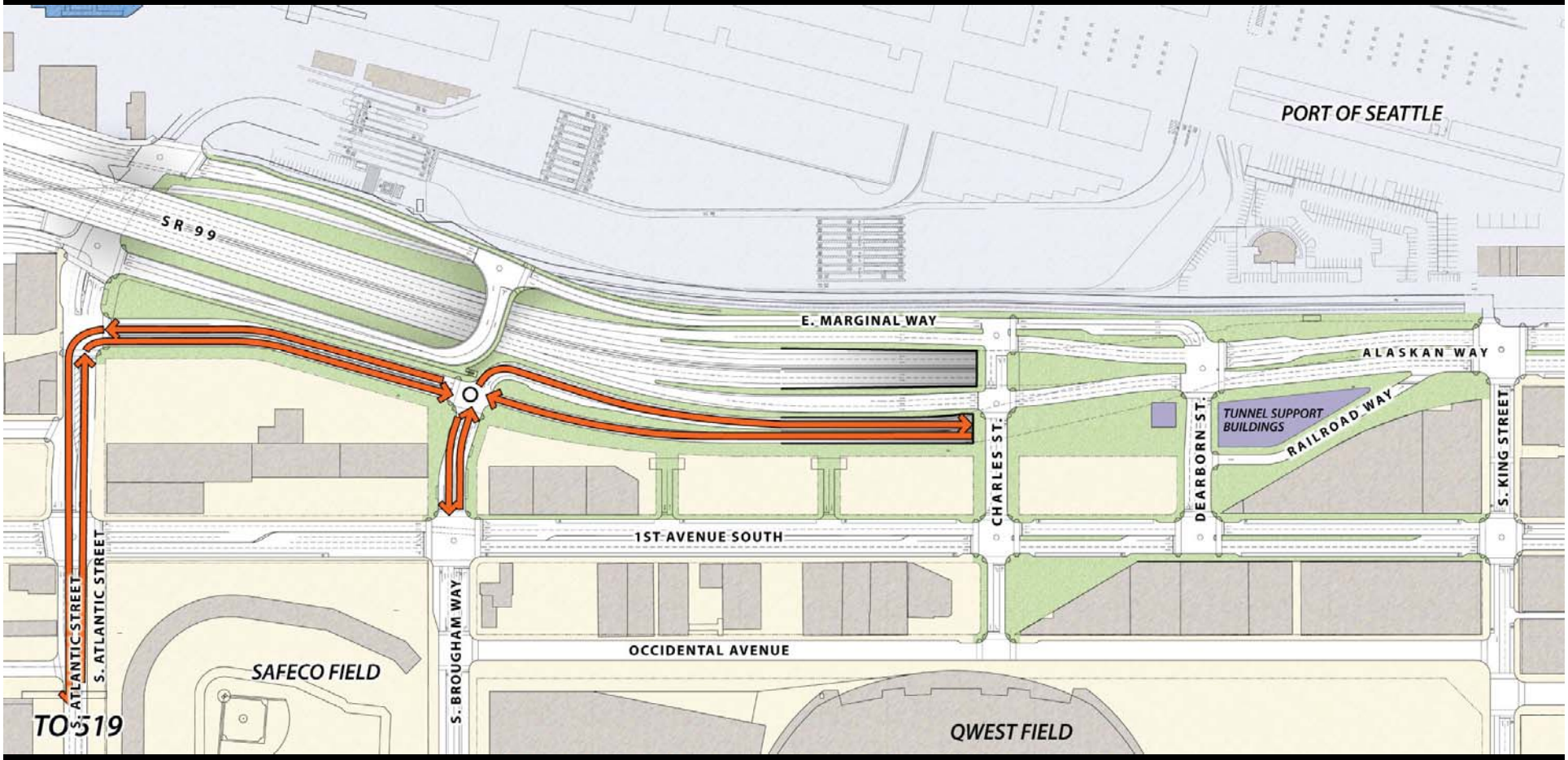
Tunnel to City Streets and 519



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

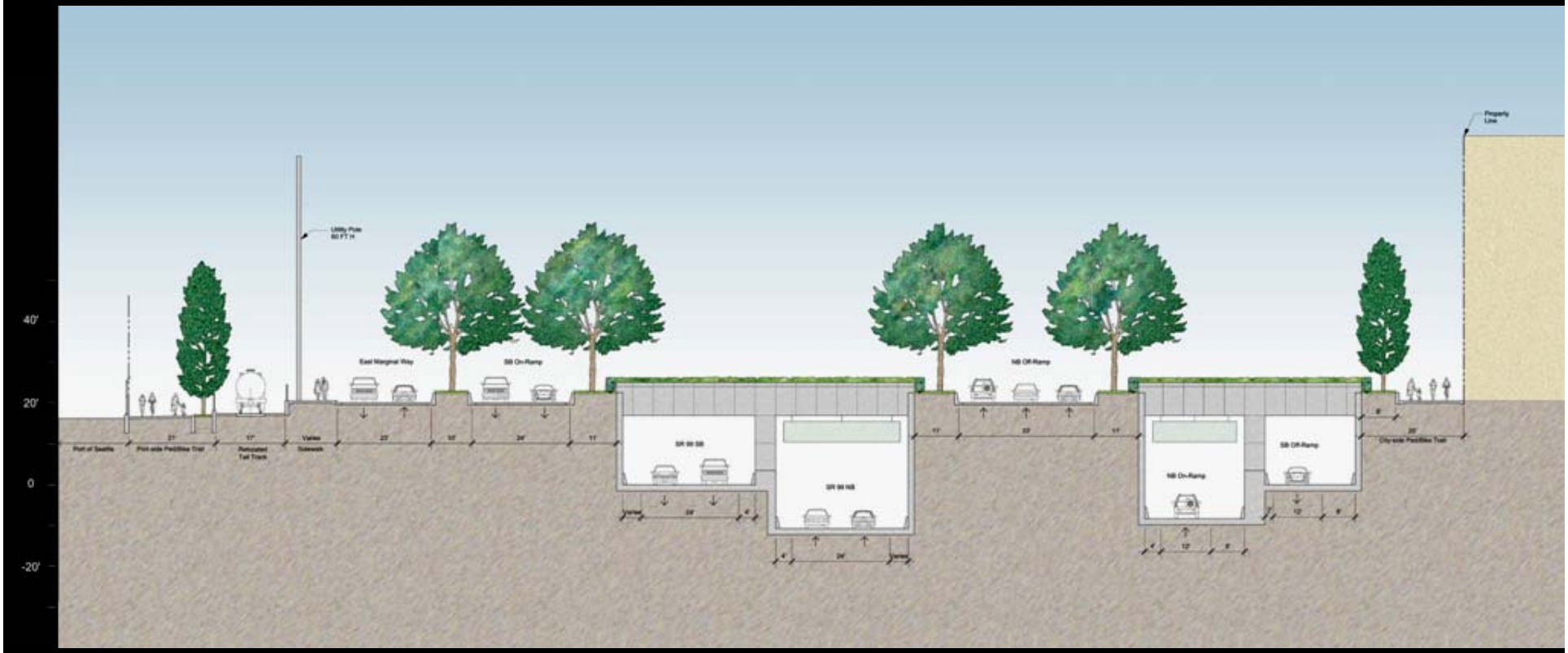
Tunnel to City Streets and 519



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

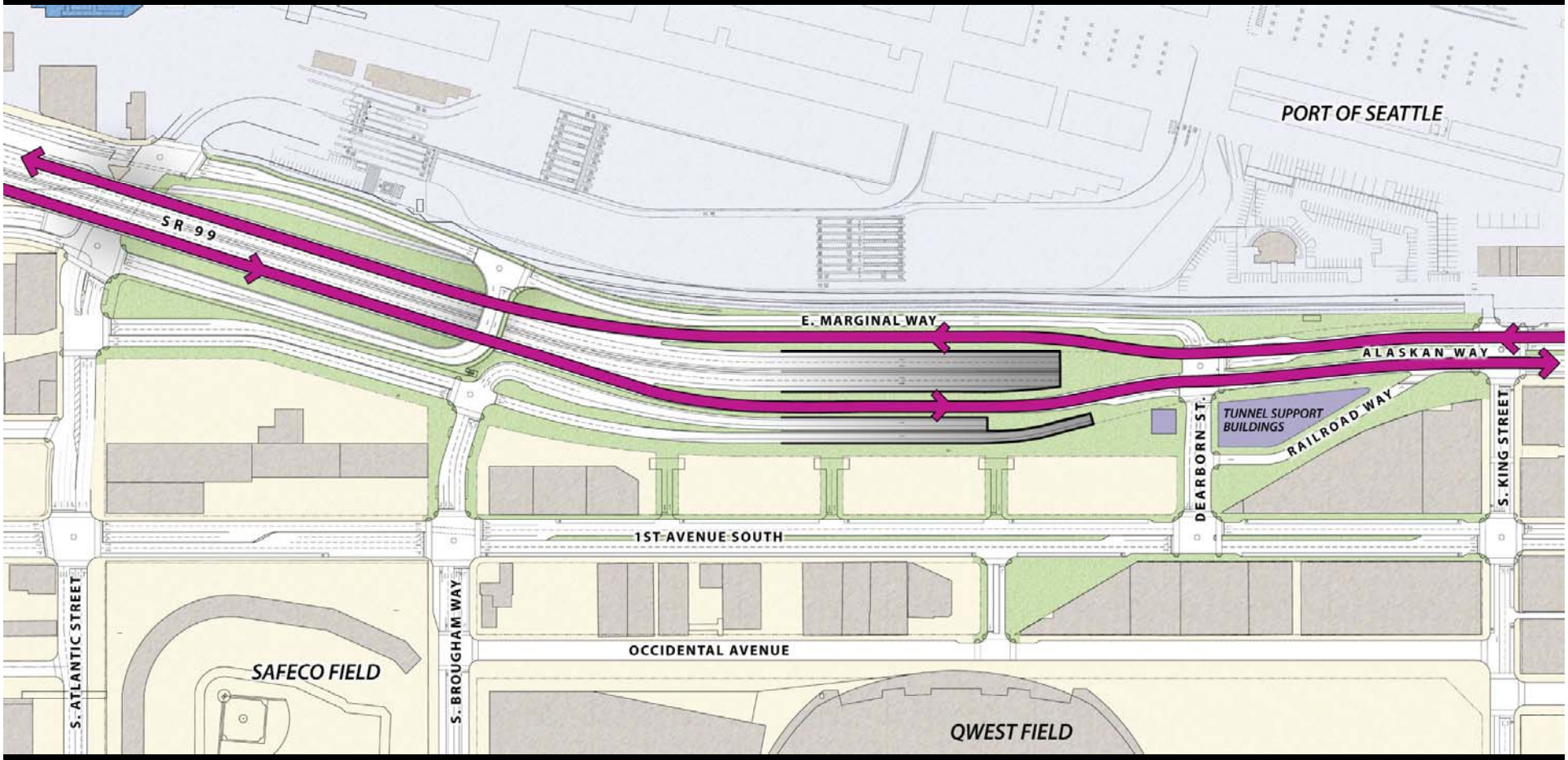
Conceptual Section at Tunnel Entrance



SOUTH PORTAL

BORED TUNNEL ALTERNATIVE

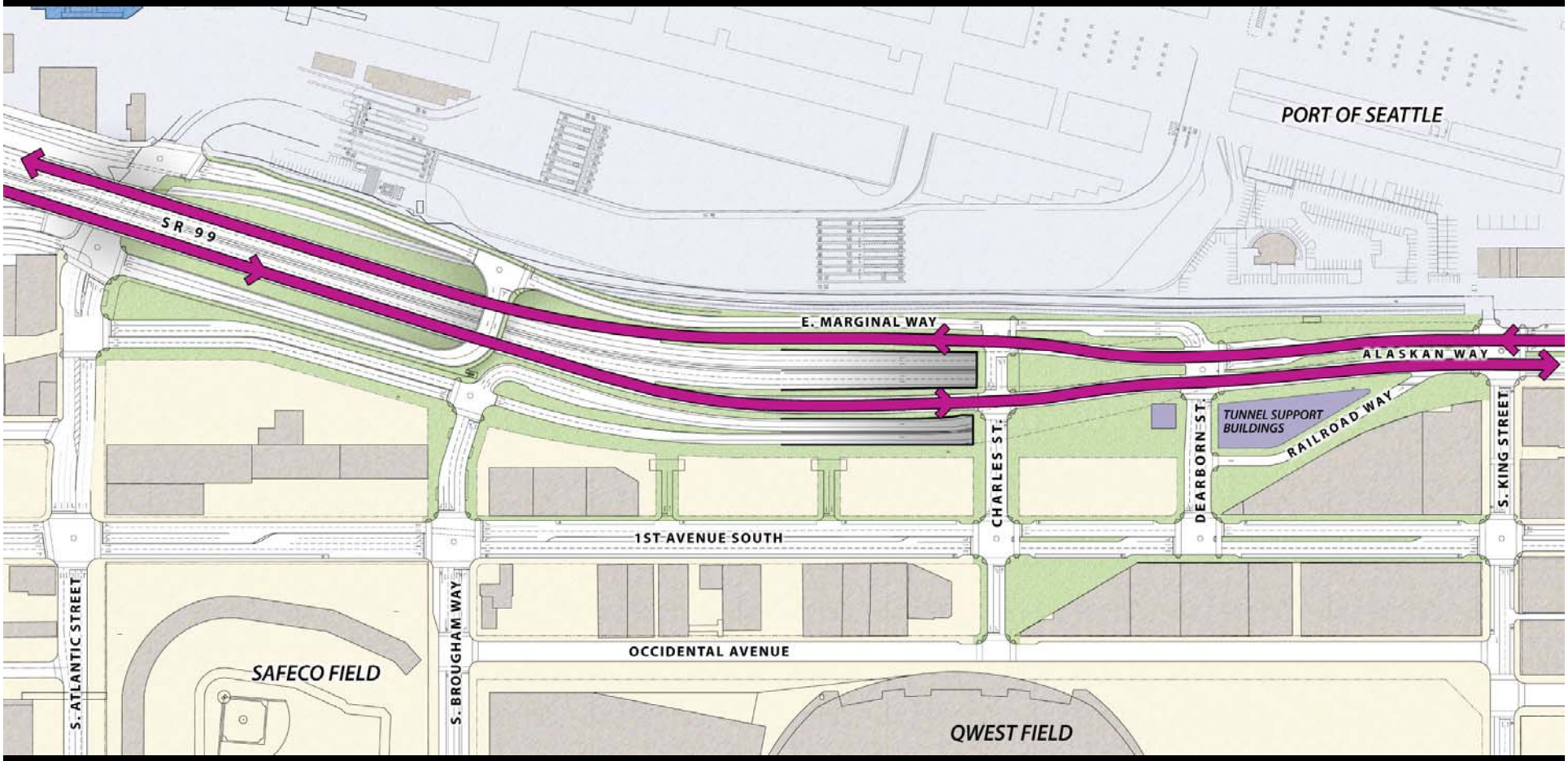
Circulation: SR-99 to Alaskan Way



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

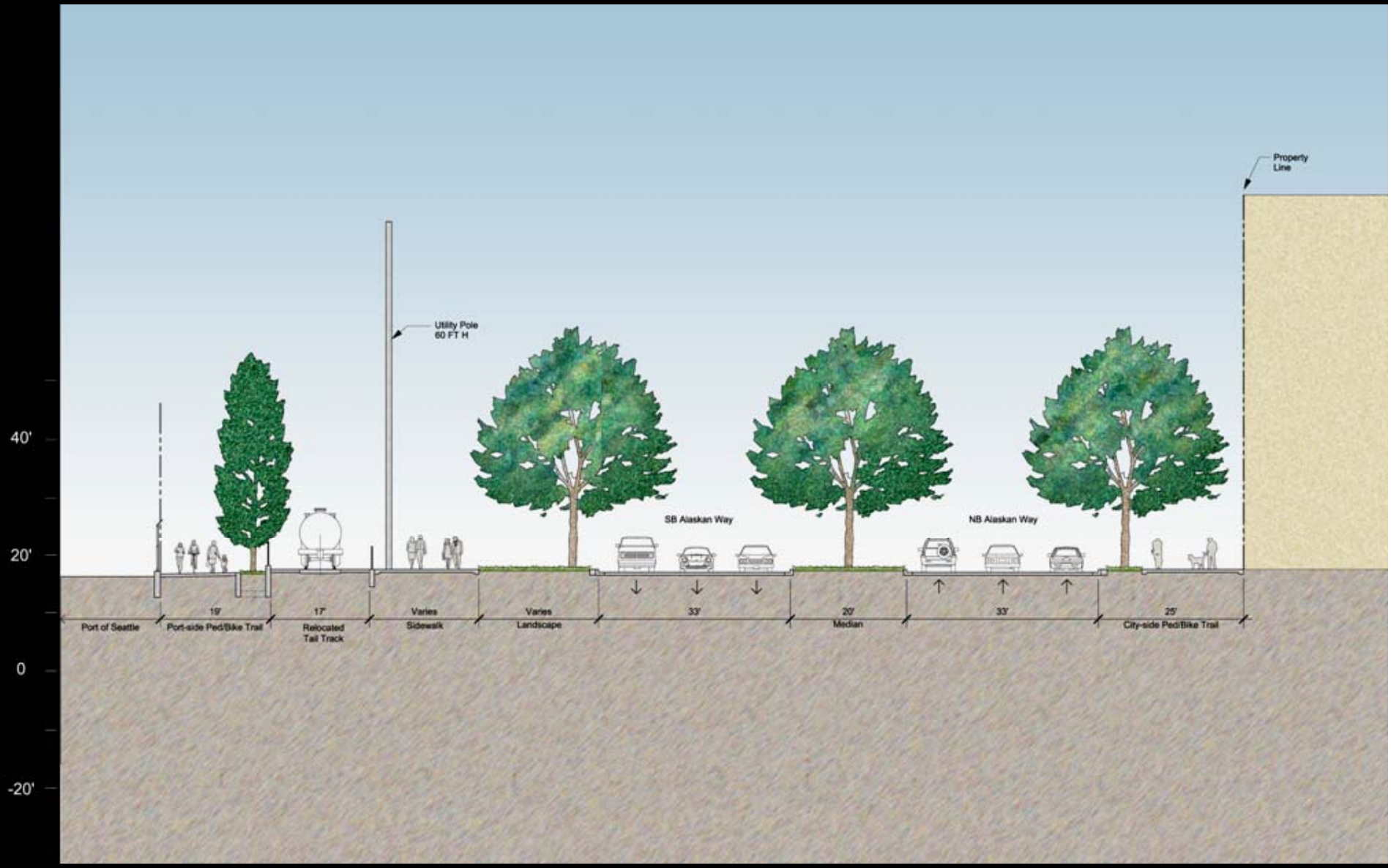
Circulation: SR-99 to Alaskan Way



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

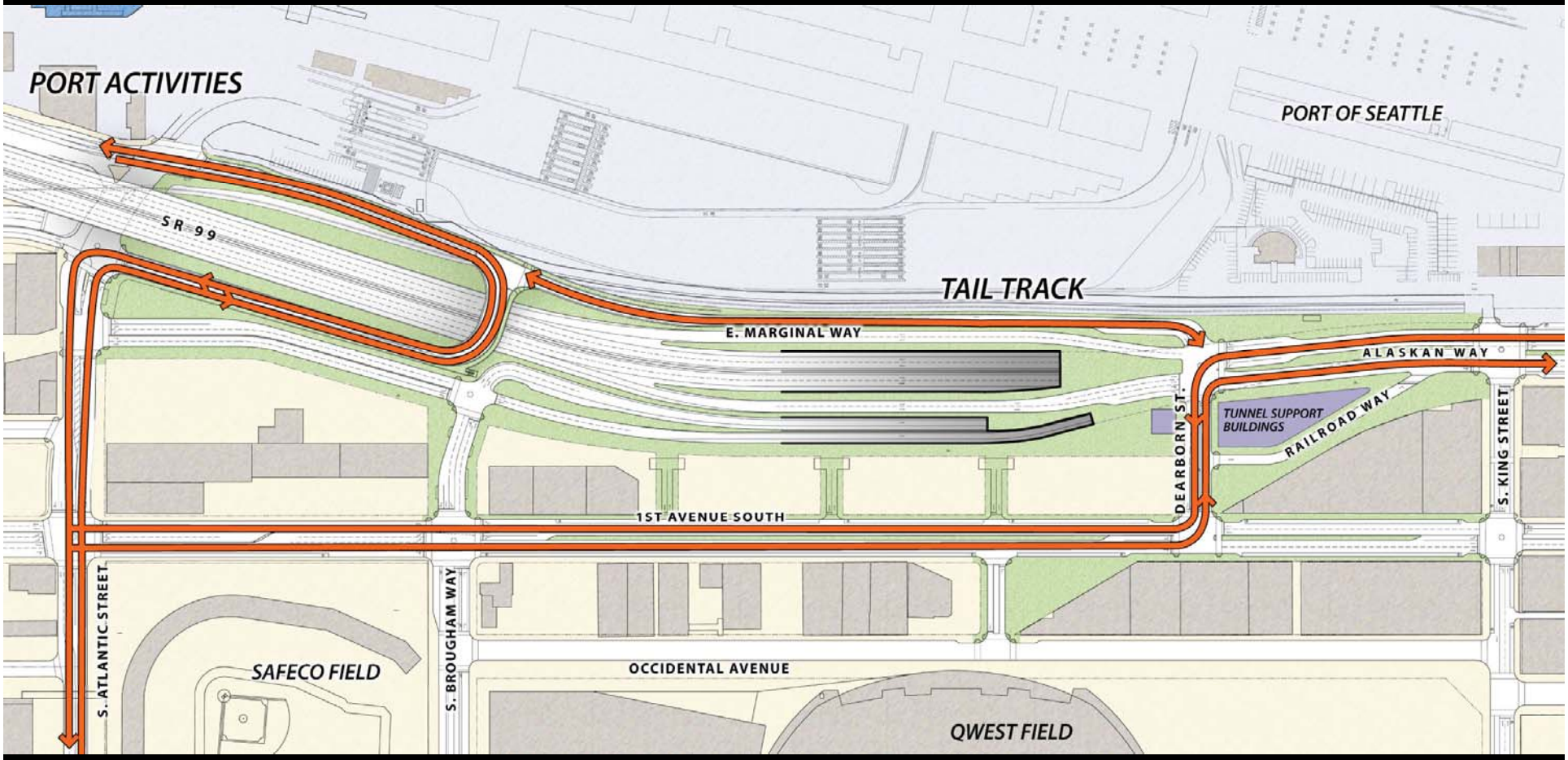
Conceptual Section of Alaskan Way



SOUTH PORTAL

BORED TUNNEL ALTERNATIVE

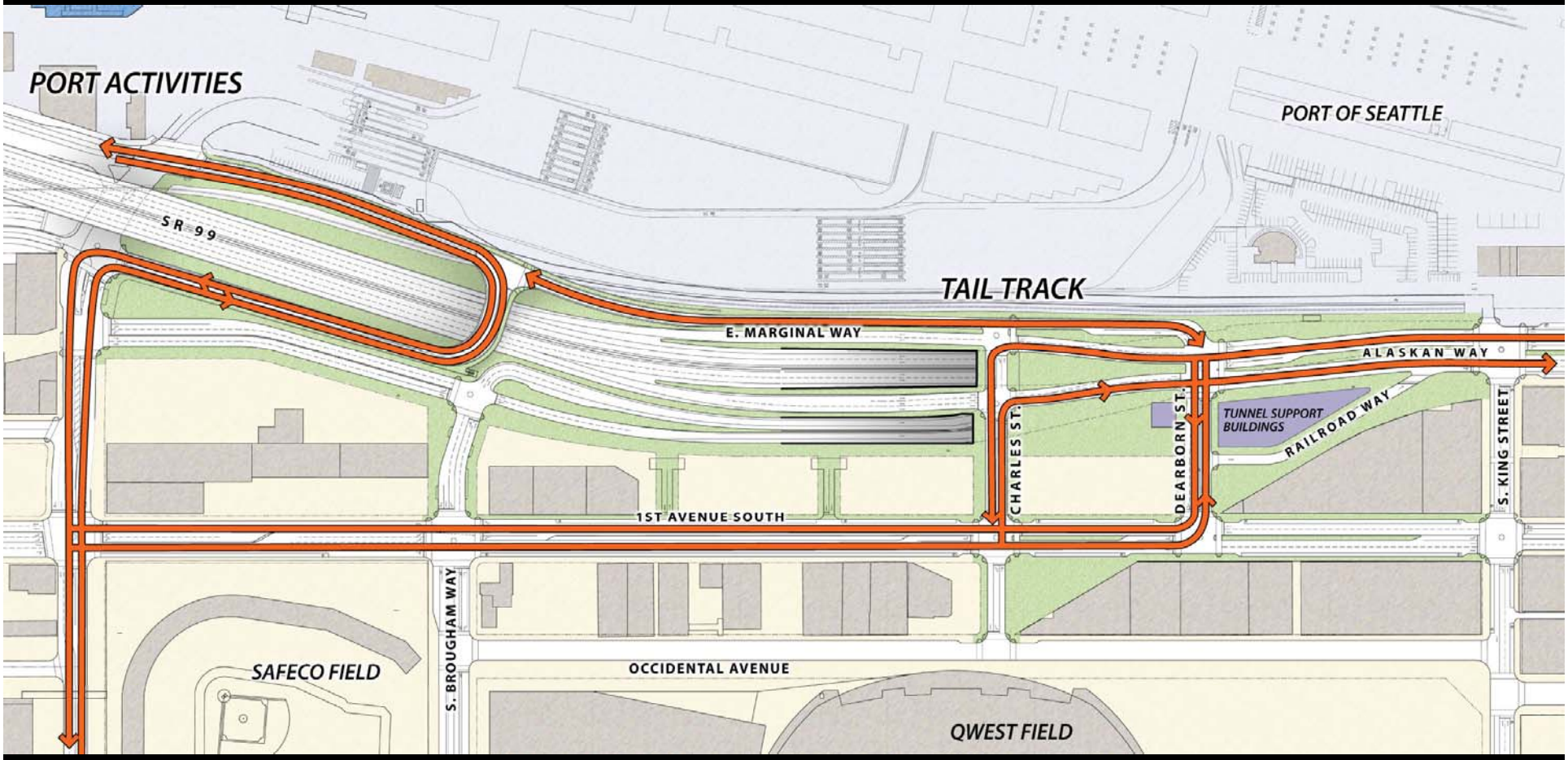
Circulation to and from 519



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

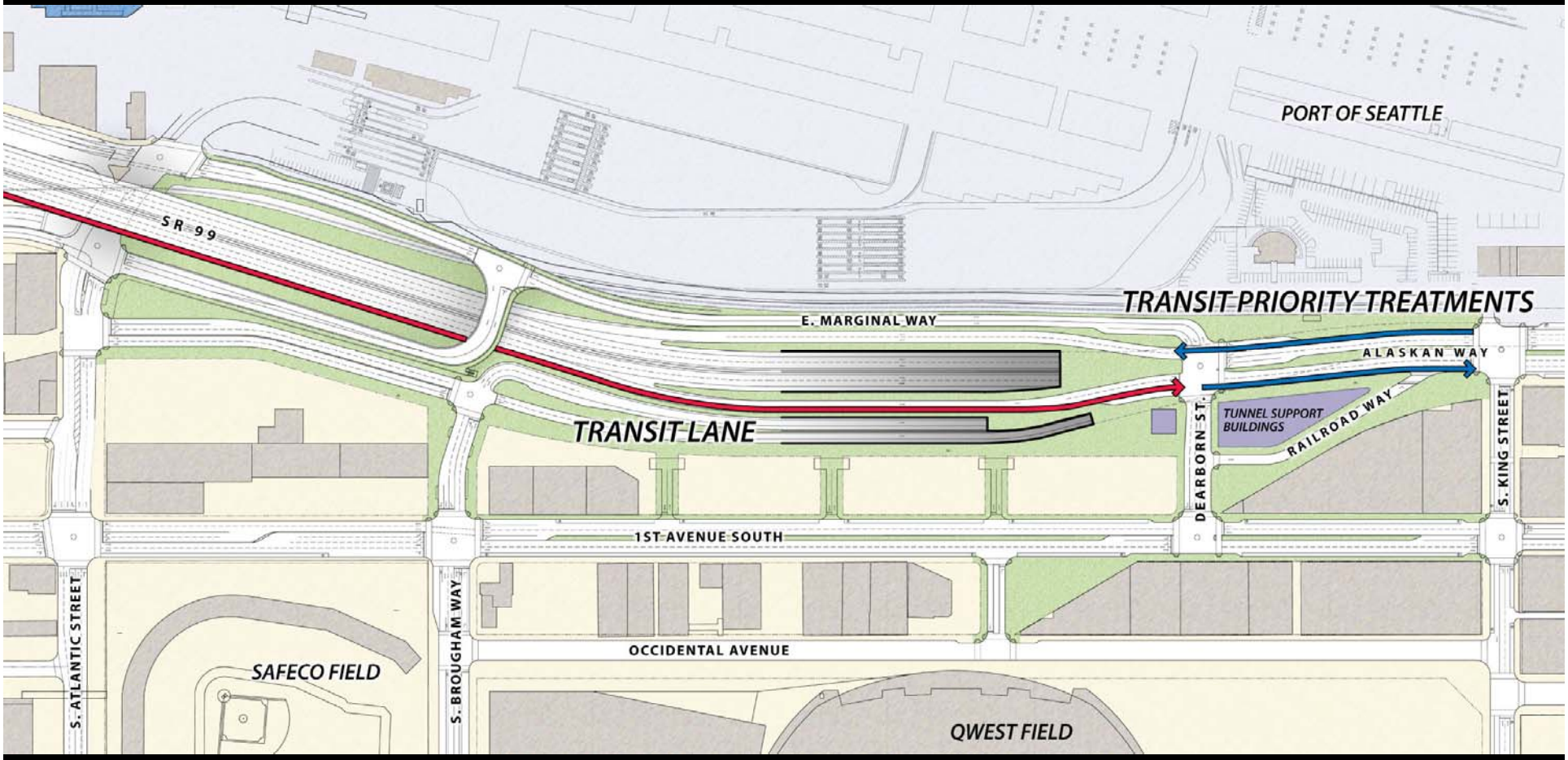
Circulation to and from 519



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

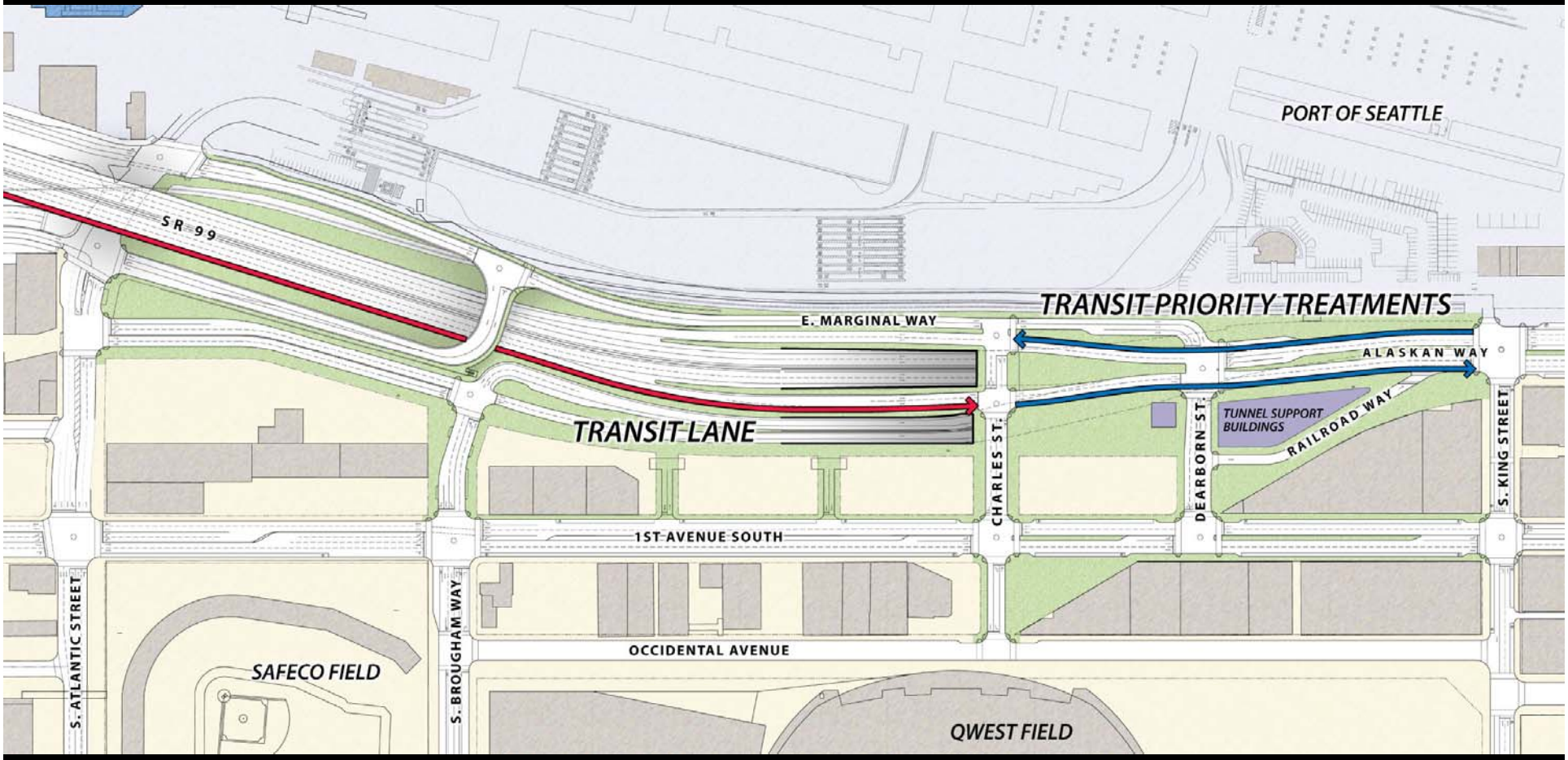
Transit Access



SOUTH PORTAL: OPTION 1

BORED TUNNEL ALTERNATIVE

Transit Access



SOUTH PORTAL: OPTION 2

BORED TUNNEL ALTERNATIVE

Opportunity Areas

SOUTH PORTAL: OPTION 1

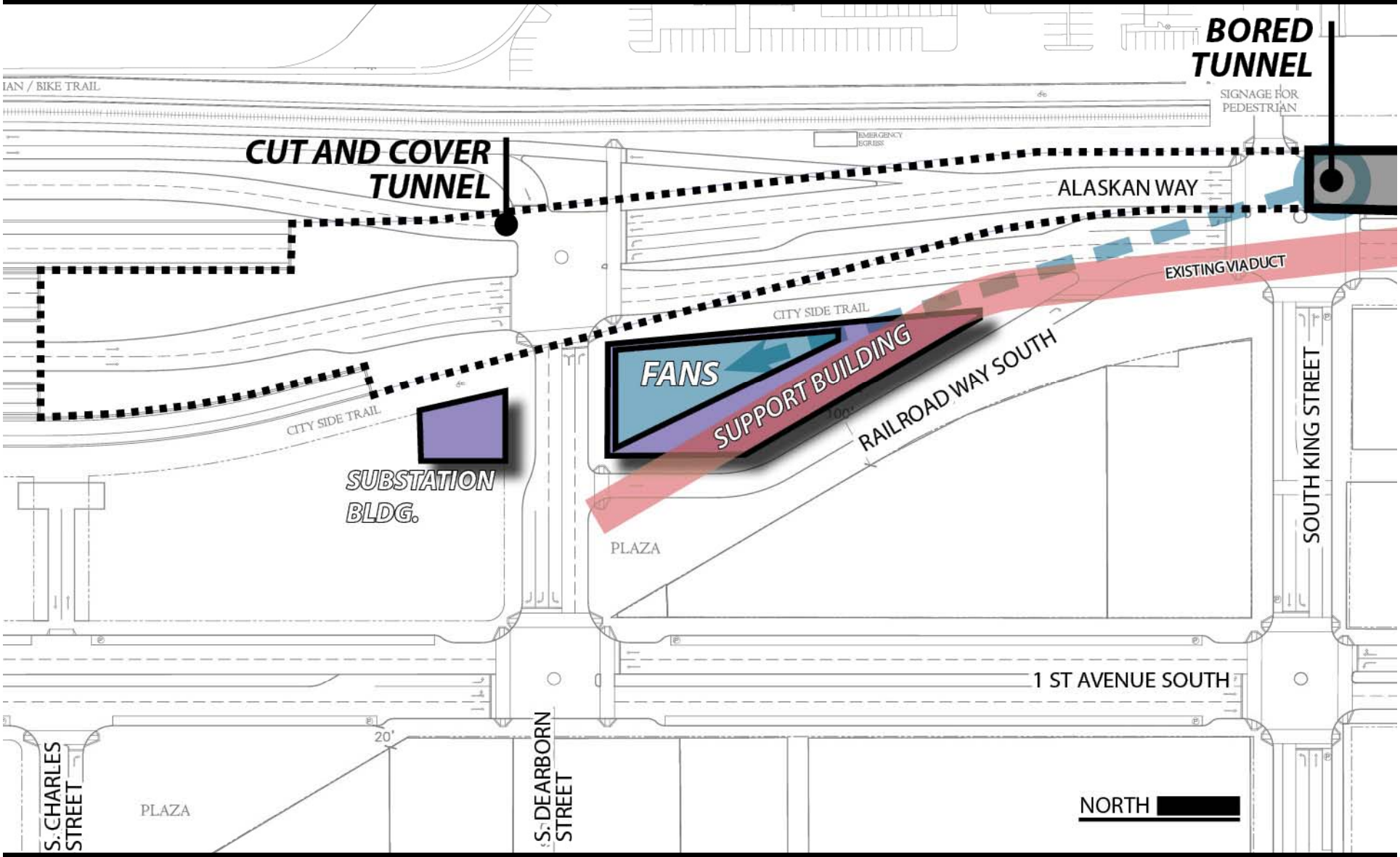
BORED TUNNEL ALTERNATIVE

Opportunity Areas

SOUTH PORTAL: OPTION 2

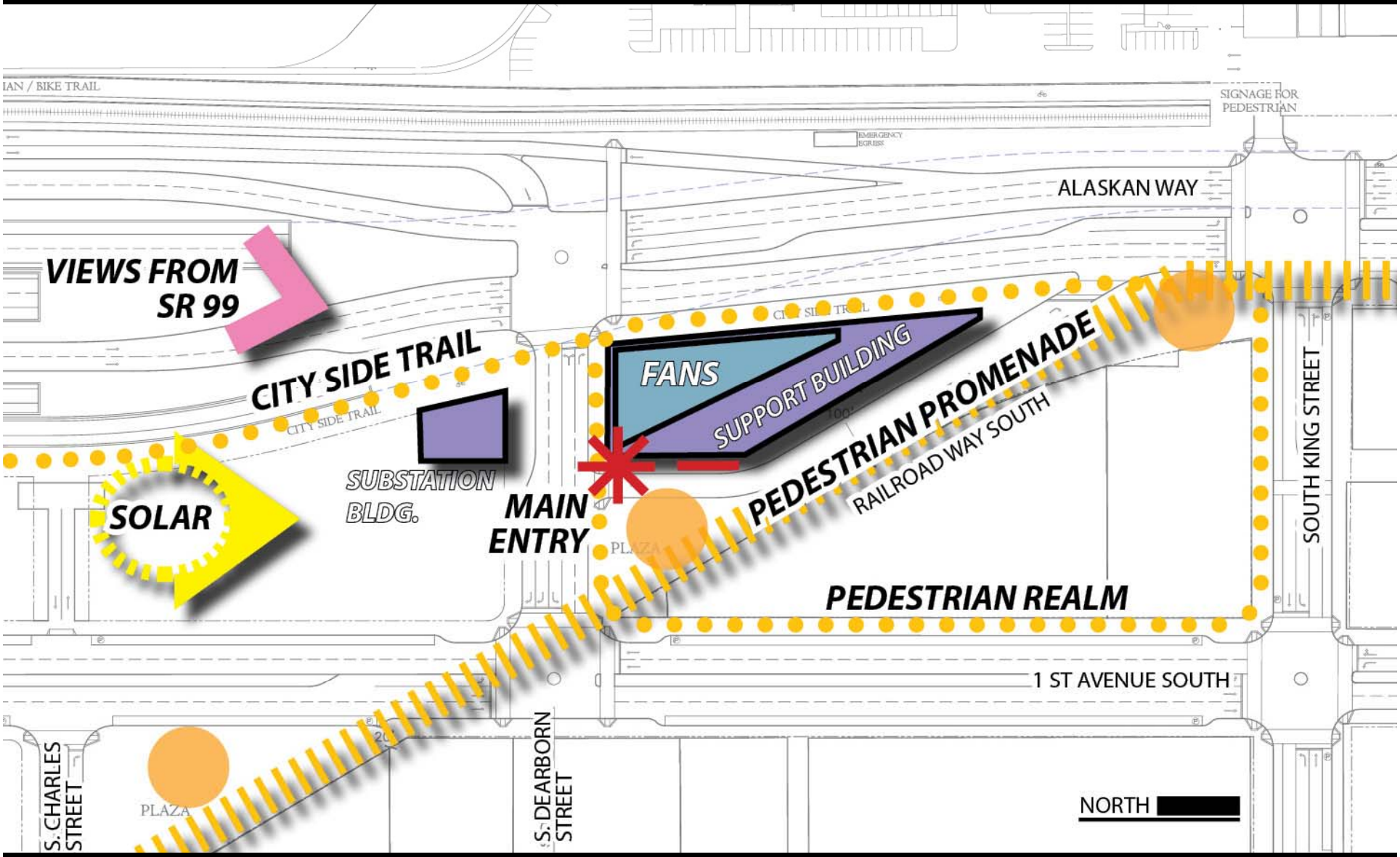
BORED TUNNEL ALTERNATIVE

Tunnel Support Buildings



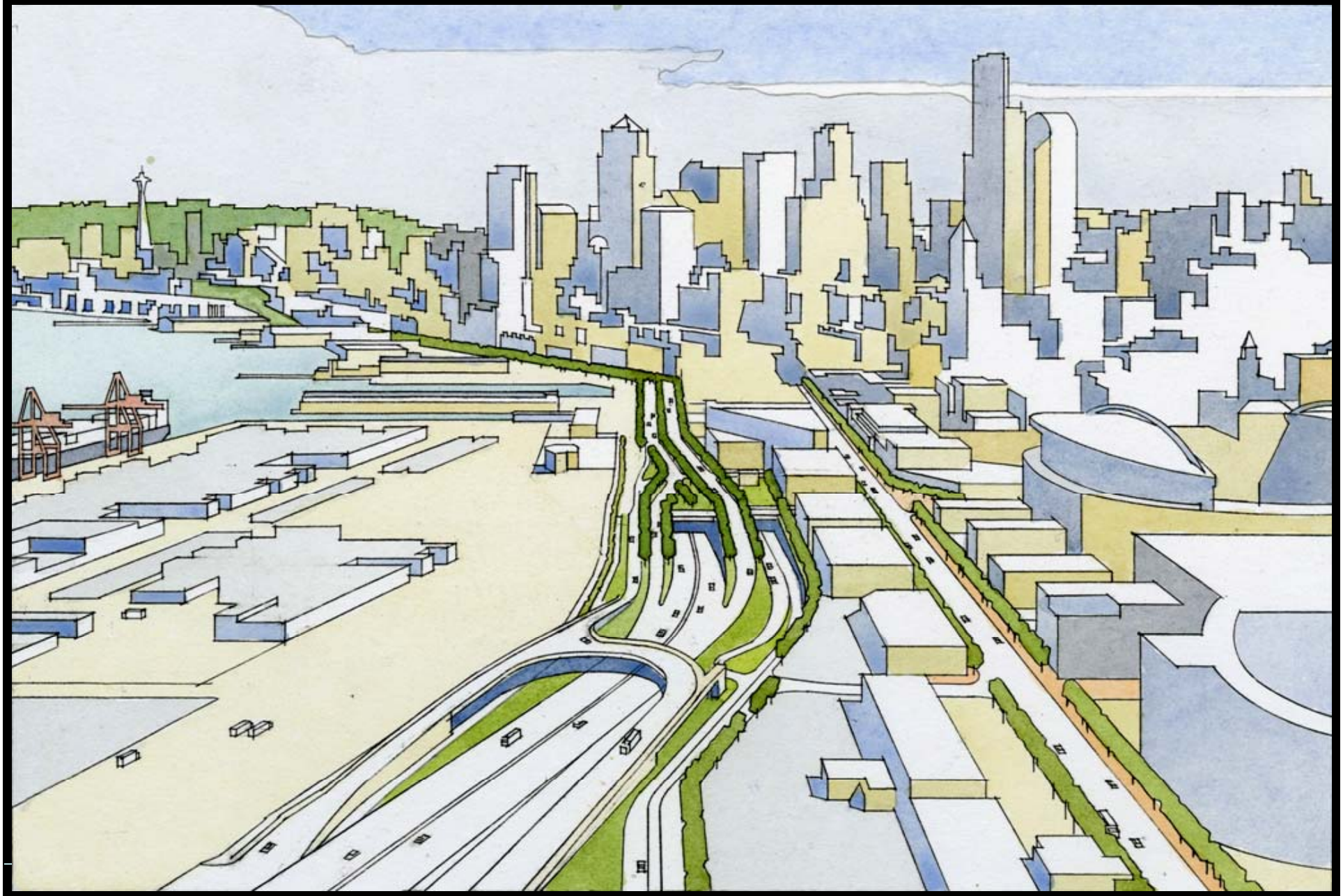
South Site Location

Tunnel Support Buildings

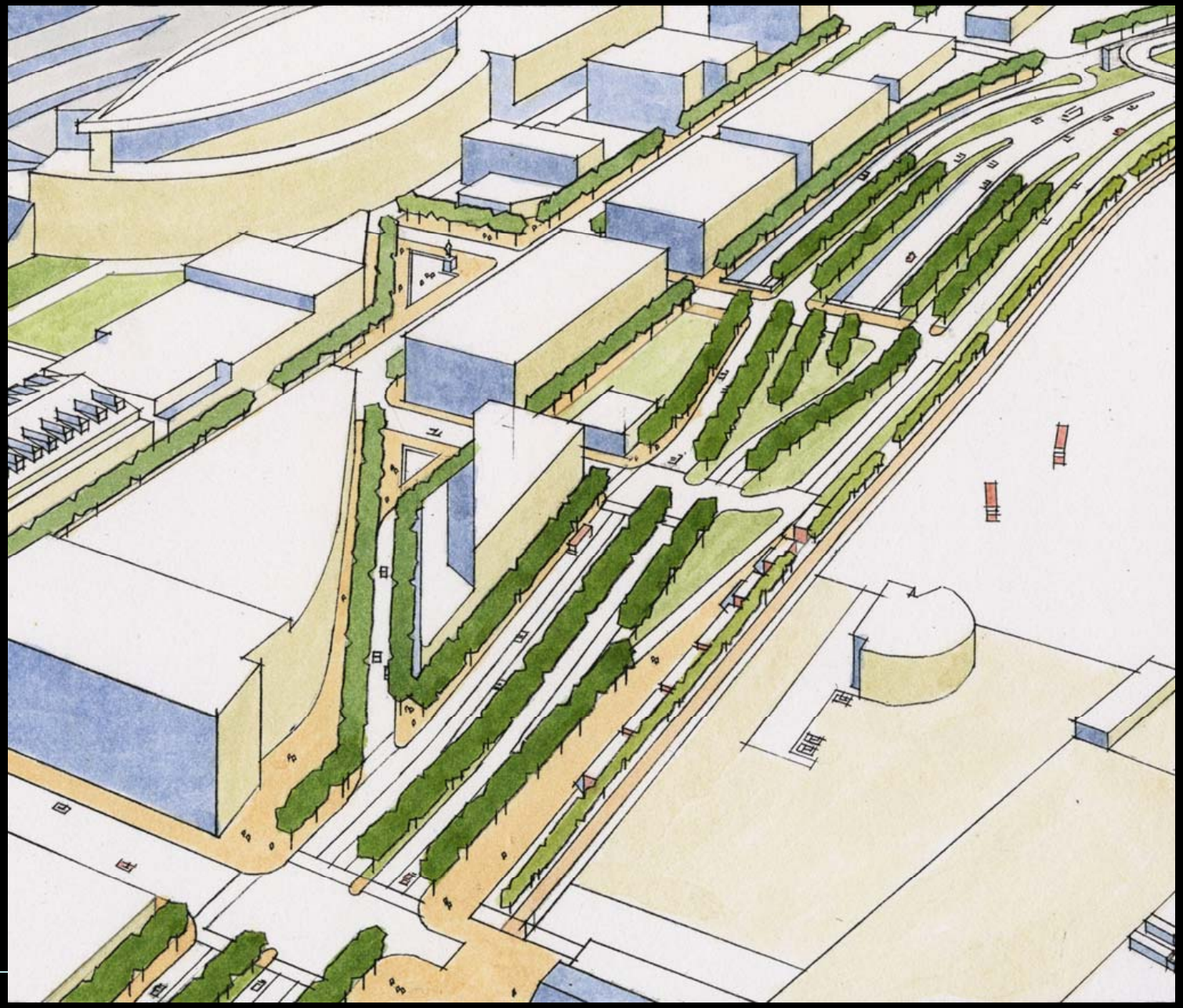


South Site Design Influences

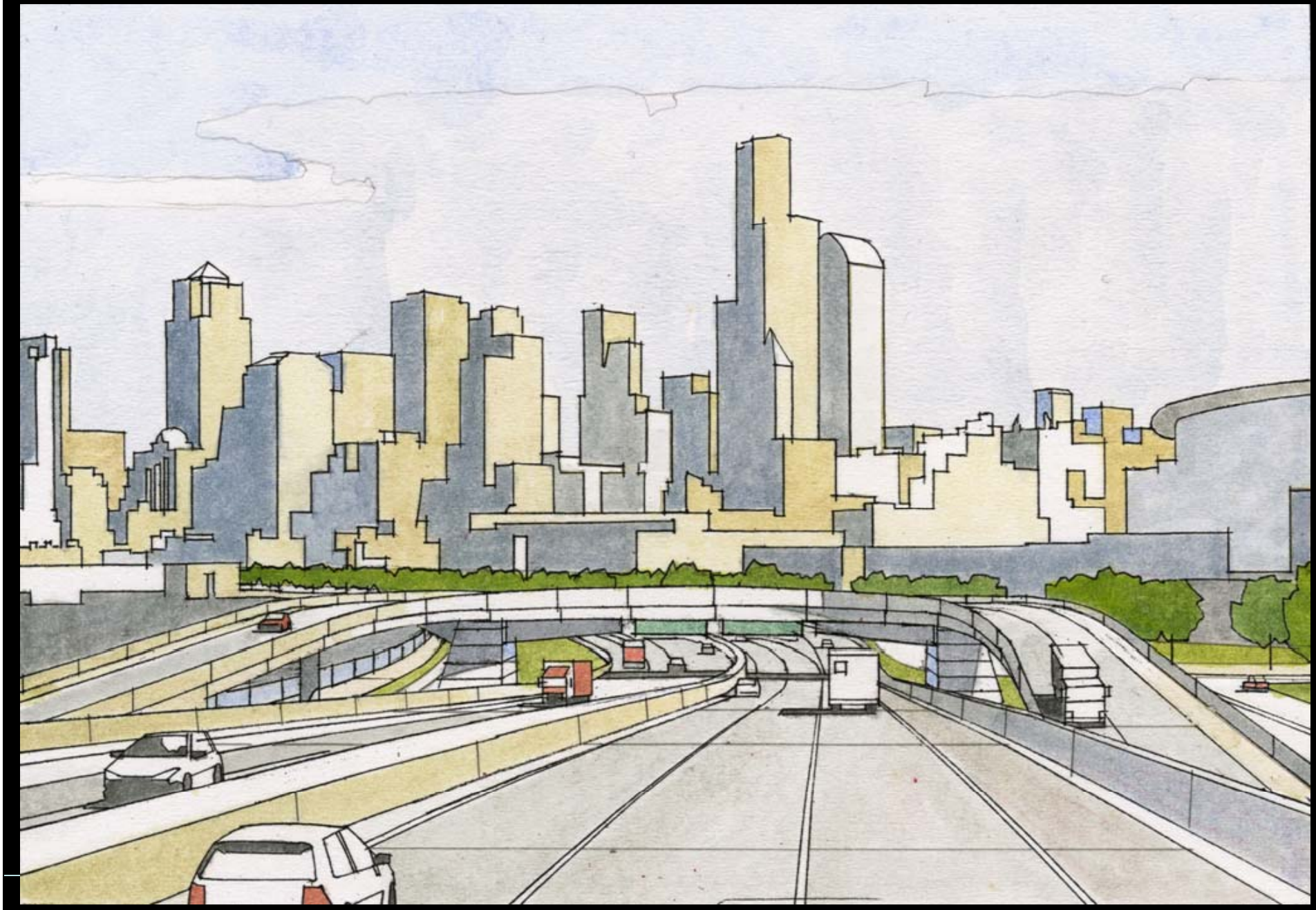
Overview of South Portal Area



Pedestrian, Bicycle Linkages



Gateway to Downtown



Portal Entrance to Tunnel and Ramps to City

Alaskan Way – Entering the Downtown Waterfront

Proposed SDC Meeting Schedule

January 21: Seattle Design Commission

- Introduction and Update
- Urban Design Goals and Objectives
- Functional plans for portal areas
- Preliminary observations of issues and opportunities

February 18: Seattle Design Commission

- Guiding Principles and Preliminary Concepts
- Potential treatment of ramps, bridges, portals, support buildings, streets and public ways

March 4: SDC Subcommittee

- Concept refinement in response to input

March 18: Seattle Design Commission

- Further update of principles and concepts
- Preliminary guidelines for components and treatments

March 31: SDC Subcommittee

- Refinement of guidelines for components and treatments in response to input

April 15: Seattle Design Commission

- Final presentation of goals and objectives, principles and concepts and visual design guidelines