

CENTER CITY CONNECTOR



Seattle Design Commission: Final Design Update

July 20, 2017

CJ Holt, Roland Genick

AGENDA

Project Status

Final Design (90%)

- Urban Context
- Pedestrian & Bicycle Safety
- Design Elements
- User Experience

Questions

FEEDBACK FROM 60% DESIGN PRESENTATION

1. Continue to coordinate with the One Center City Plan and other modal plans for the downtown area
2. Incorporate wayfinding on east-west streets as an easy way for pedestrians to navigate between the different transit modes and facilities through the use of materials and graphics
3. Confirm the custom tactile zone meets ADA requirements
4. Be open to more material palettes for the design of individual blocks, intersections, etc., while allowing the station signage design to serve as consistent element across the program
5. Include seating elements at each station
6. Provide striping and/or material to delineate scramble crossing areas at intersections
7. Maintain the current color palette for the station design
8. Provide detailed information regarding equity and community outreach

FEEDBACK FROM 60% DESIGN PRESENTATION

1. Continue to coordinate with the One Center City Plan and other modal plans for the downtown area

- Continue to meet with Bike Advisory Board
- Coordinating with Madison BRT design team
- Meeting with Pioneer Square Preservation Board (PSPB)
- Meeting with Pike Place Market Historic Commission (PPMHC)

FEEDBACK FROM 60% DESIGN PRESENTATION

2. Incorporate wayfinding on east-west streets as an easy way for pedestrians to navigate between the different transit modes and facilities through the use of materials and graphics

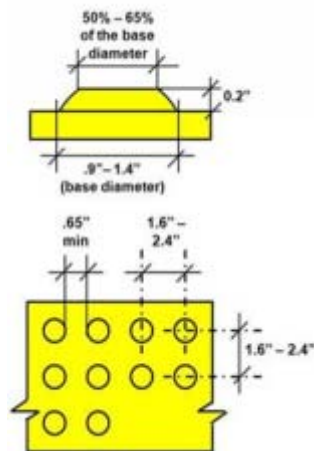
- Coordinate with One City Center for wayfinding
- Evaluate integration of station area map into shelter design



FEEDBACK FROM 60% DESIGN PRESENTATION

3. Confirm the custom tactile zone meets ADA requirements

- Cast iron truncated dome along platform edge has been reviewed by project Safety-Security committee
- Cast iron ADA curb ramps have been installed at Yesler Way
- Both products meet all ADA requirements with respect to the configuration, spacing, and size of domes



Cast Iron Detectable Plate
(Yesler Way & 2nd Avenue)

FEEDBACK FROM 60% DESIGN PRESENTATION

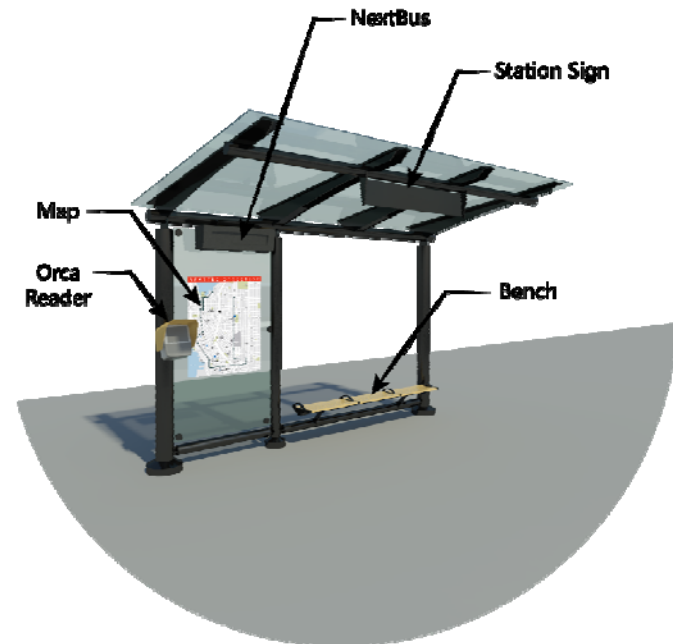
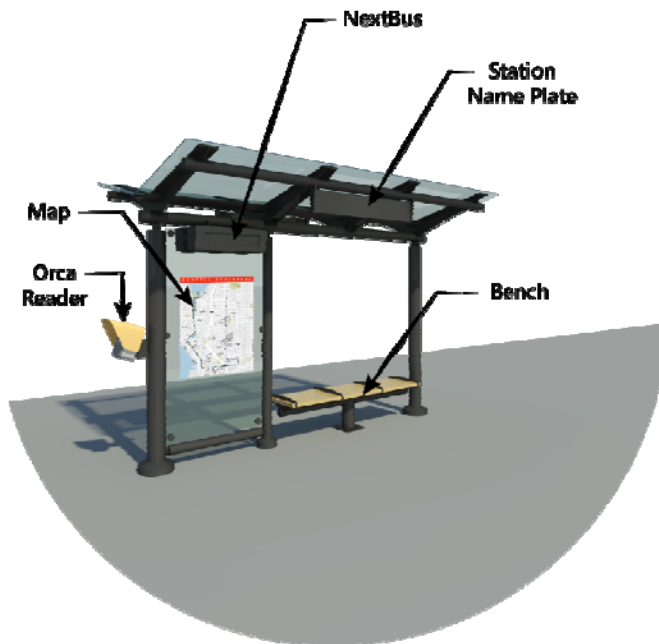
4. Be open to more material palettes for the design of individual blocks, intersections, etc., while allowing the station signage design to serve as consistent element across the program

- Currently evaluating alternative color schemes for shelter at Pike Place Market
- Utilizing granite cobbles in Pioneer Square, brick at Pike & 1st intersection, and Blacktusk Basalt around planter at Stewart Station
- Integrated Red Oak trees into station platform at Columbia and Cherry Station
- Initiated coordination with C3 project artist for integration of artwork into station design

FEEDBACK FROM 60% DESIGN PRESENTATION

5. Include seating elements at each station

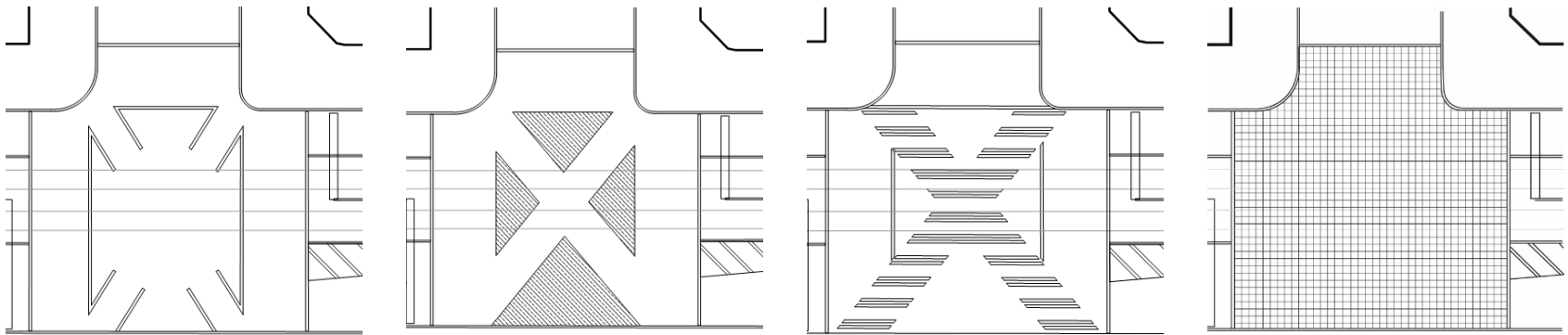
- Each station will have a bench integrated into shelter design
- Center platform shelter has been customized to allow for access to bench from both sides



FEEDBACK FROM 60% DESIGN PRESENTATION

6. Provide striping and/or material to delineate scramble crossing areas at intersections

- Final layout of pedestrian scramble is still under development
- Variety of striping and material layouts are being studied



FEEDBACK FROM 60% DESIGN PRESENTATION

7. Maintain the current color palette for the station design

- Basic color palette is being maintained
- Final paint color will be selected based on product submittal by contractor
- Concrete color of station platform will match adjacent sidewalk colors



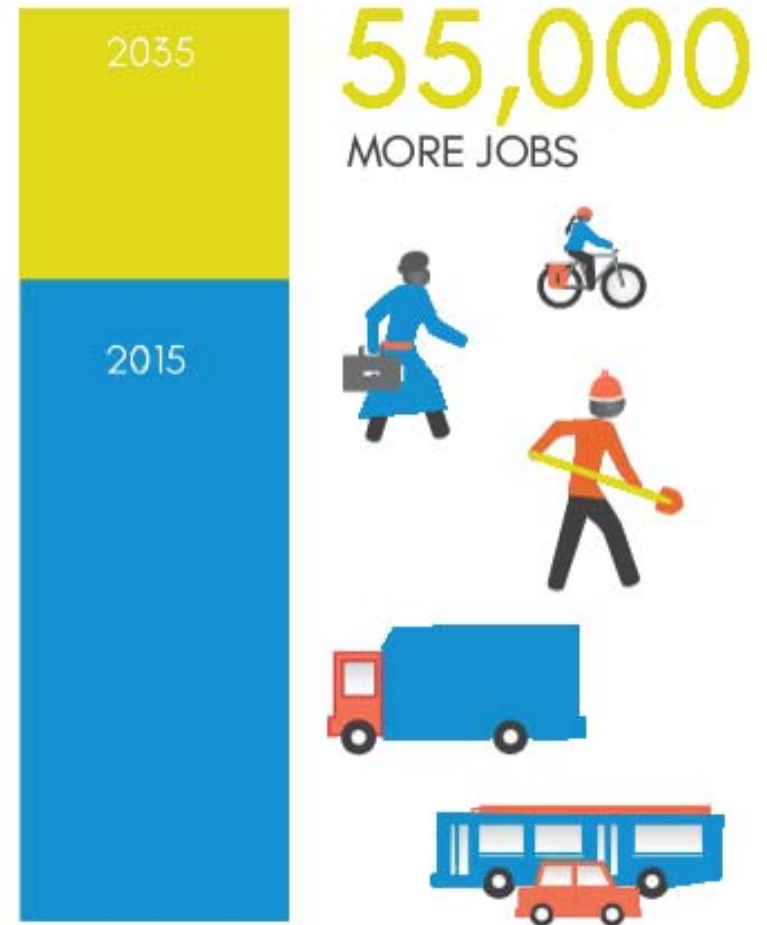
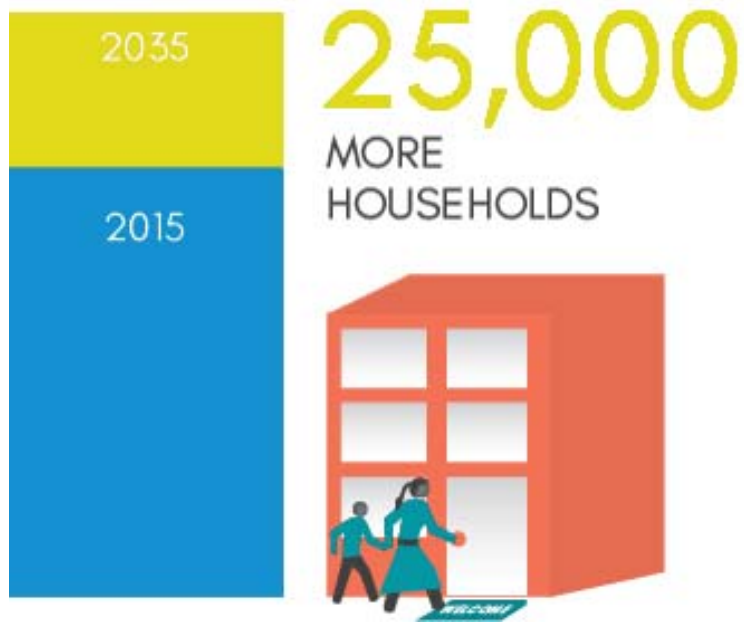
FEEDBACK FROM 60% DESIGN PRESENTATION

8. Provide detailed information regarding equity and community outreach

- SDOT continues to lead extensive community outreach effort to stakeholders, general public, and variety of boards and commissions and is working to incorporate feedback into the design. (A full summary is available upon request)
- SDOT completed an Environmental Assessment for the project which included a full Race and Social Justice analysis and recommendations to address impacts
- Specific coordination is ongoing with DSA, Parks & Recreation and stakeholders regarding Westlake Square to ensure a thoughtful design

PROJECT STATUS

PURPOSE AND NEED



Final Design

PROJECT OVERVIEW

Move more people...

- Connecting the system will move more people during PM peak
- Projected 20,000-24,000 average weekday riders

With more reliability...

- Exclusive transit lane on 1st Ave
- Estimated 10-minute travel time from Westlake to Occidental
- Arrivals up to every 5 minutes between South Lake Union and Chinatown-International District



Final Design

Project Status

Project Vision

Context

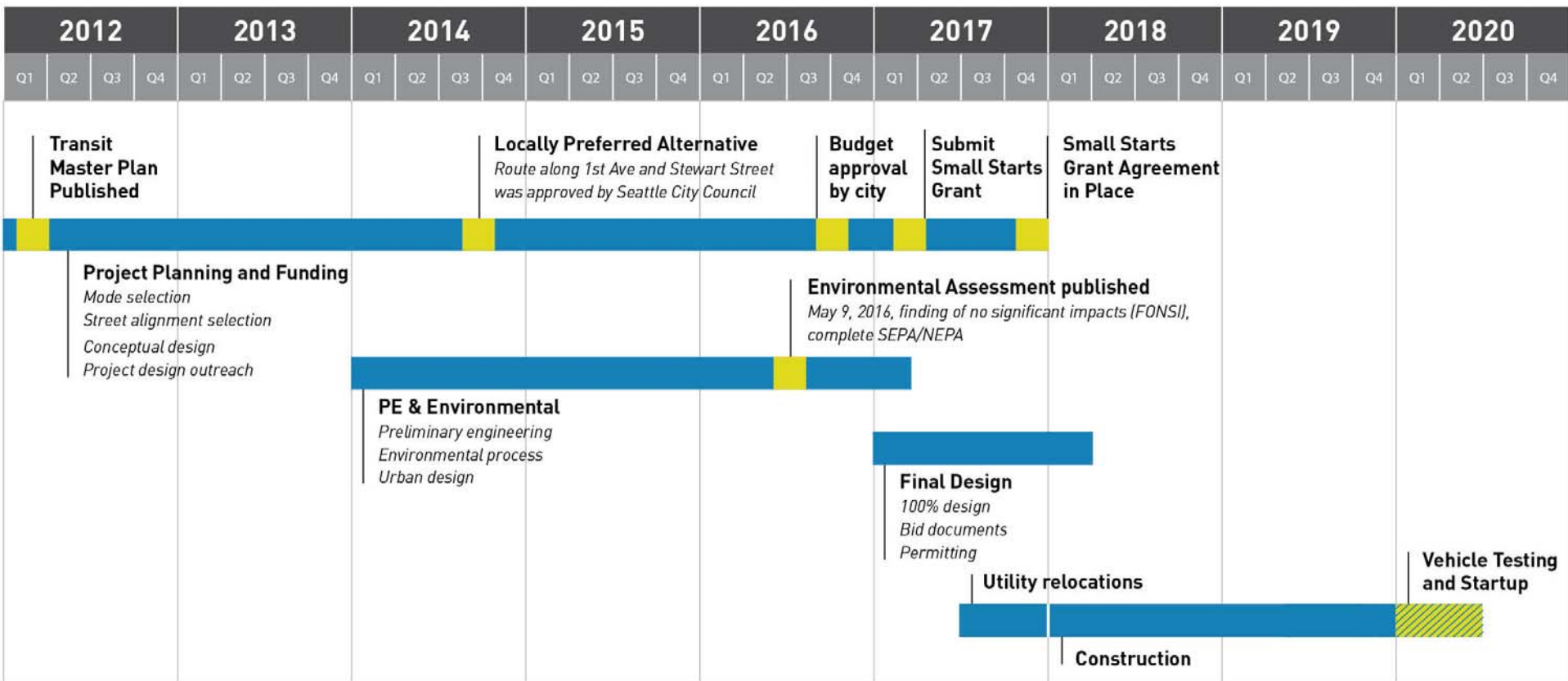
Safety

Elements

Experience

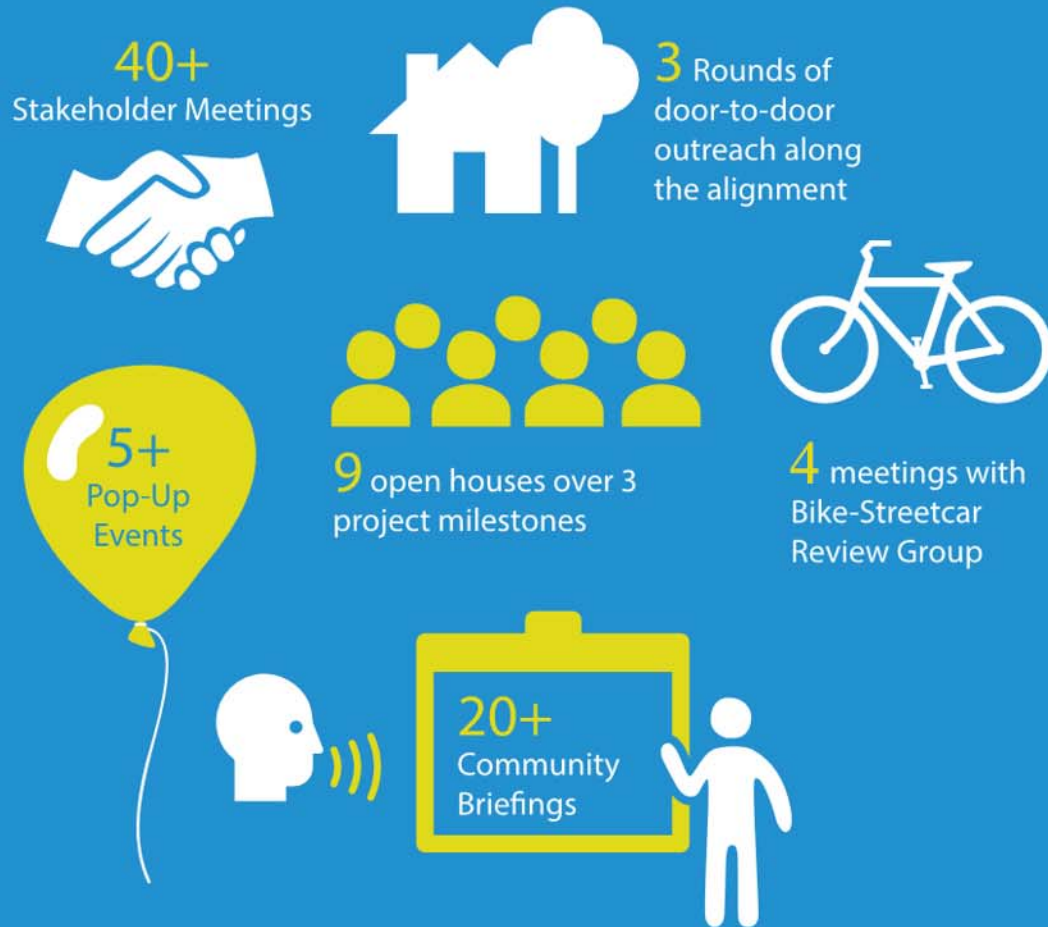
Operations

PROJECT SCHEDULE



Final Design

PUBLIC OUTREACH EFFORTS



Ongoing Outreach Activities

- Regular monthly meetings with key stakeholder groups
- Regular email updates about project status
- Stakeholder workshops
- Bike Advisory Board meetings

Final Design

PUBLIC OUTREACH IMPACTS

Groups/Individuals

- Department of Neighborhoods Historic Boards
- Community Based Organizations
- Business Owners
- Residents adjacent to, and nearby, alignment
- Advisory Boards
 - Seattle Bicycle Advisory Board, Seattle Transit Advisory Board, Seattle Pedestrian Advisory Board

How Outreach Influenced Design

- Nord Alley Crossing Revision
- Bicycle Safety Improvements
- Modifications to On-Street Parking/Loading
- Operations and Maintenance Facility Location

Final Design

FINAL DESIGN (90%)

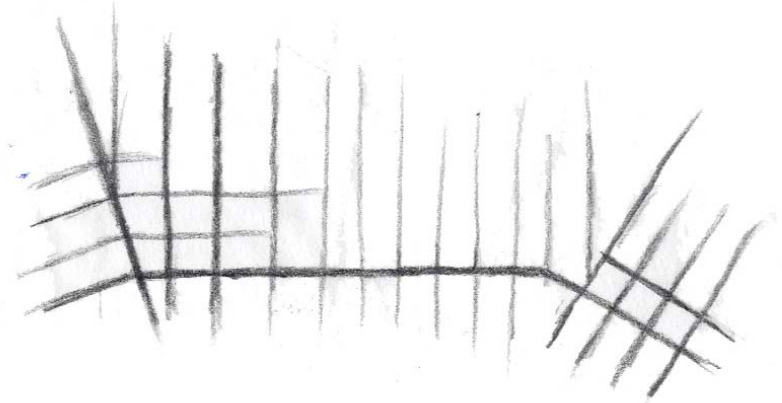
PROJECT VISION

*"Integrate streetcar transit into downtown streets
while allowing the unique, existing qualities of each street
to define the physical design"*

RETHINK "CORRIDOR"



Transit Corridor Design



Transit Integration Design

Final Design

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations

ACTIVATING & CONNECTING



Final Design

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations

QUIET INTEGRATION – UNIQUE CHARACTER



Final Design

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations

SLIM, MINIMAL, LOW, OPEN



Final Design

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations

KEY DESIGN CONSIDERATIONS

CONTEXT	PED AND BICYCLE SAFETY	DESIGN ELEMENTS	USER EXPERIENCE
<ul style="list-style-type: none">• Quiet Integration• Give priority to architecture and neighborhood character	<ul style="list-style-type: none">• Pedestrian Prioritization• Bicycle Protection• Level of Service	<ul style="list-style-type: none">• Transitway Materials• Station Platform Materials• Shelters and Protection• Station Furniture	<ul style="list-style-type: none">• Station Organization• Comfort• Wayfinding• Accessibility

Schematic Design

Project Status

Project Vision

Context

Safety

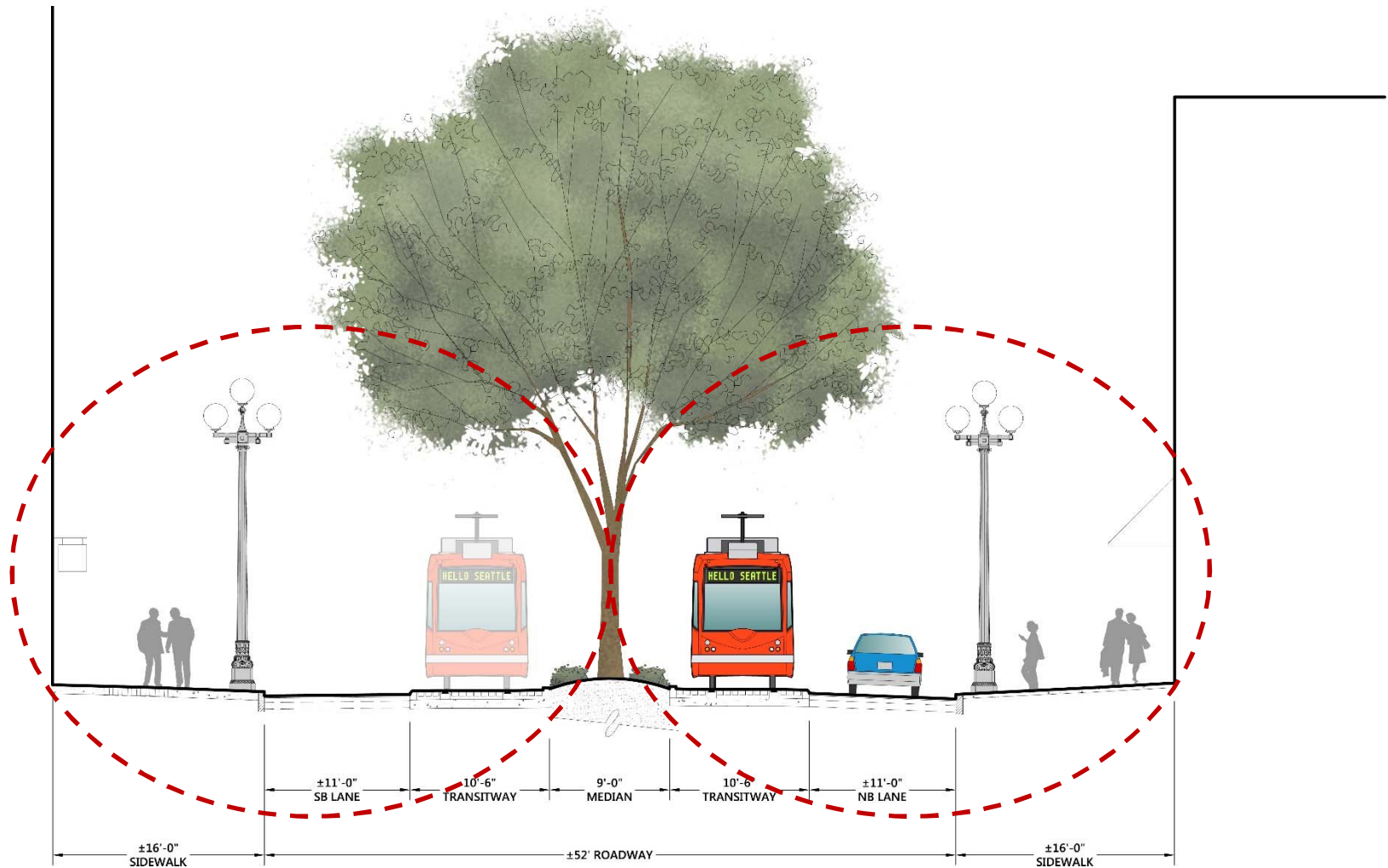
Elements

Experience

Operations

PIONEER SQUARE BOULEVARD CONTEXT

PIONEER SQUARE SECTION (SOUTH)



Pioneer Square

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations



PIONEER SQUARE BOULEVARD SAFETY

CARING FOR PEOPLE



Pioneer Square

Project Status

Project Vision

Context

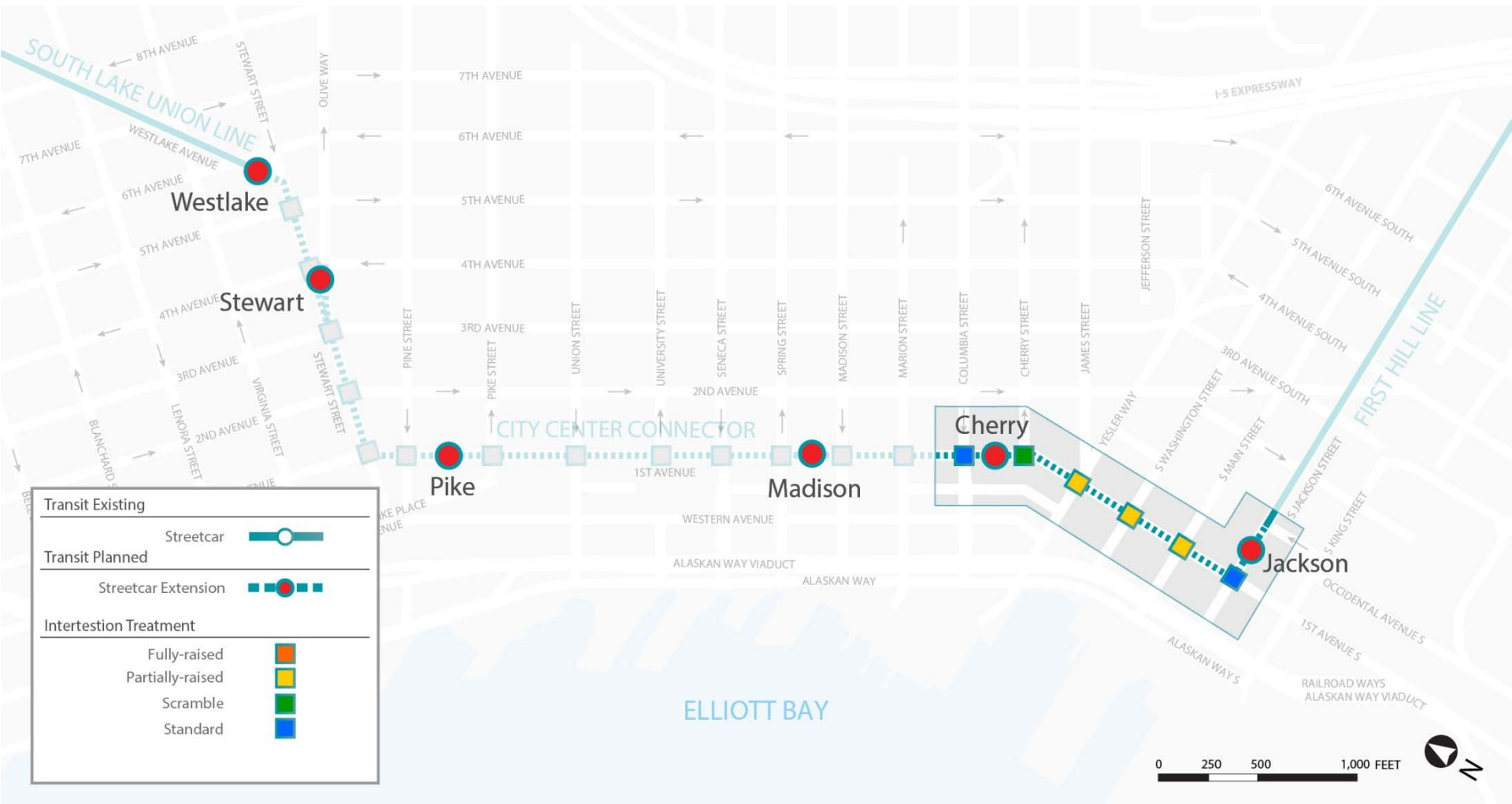
Safety

Elements

Experience

Operations

INTERSECTION TREATMENTS



Pioneer Square

Project Status

Multi-Modal

Context

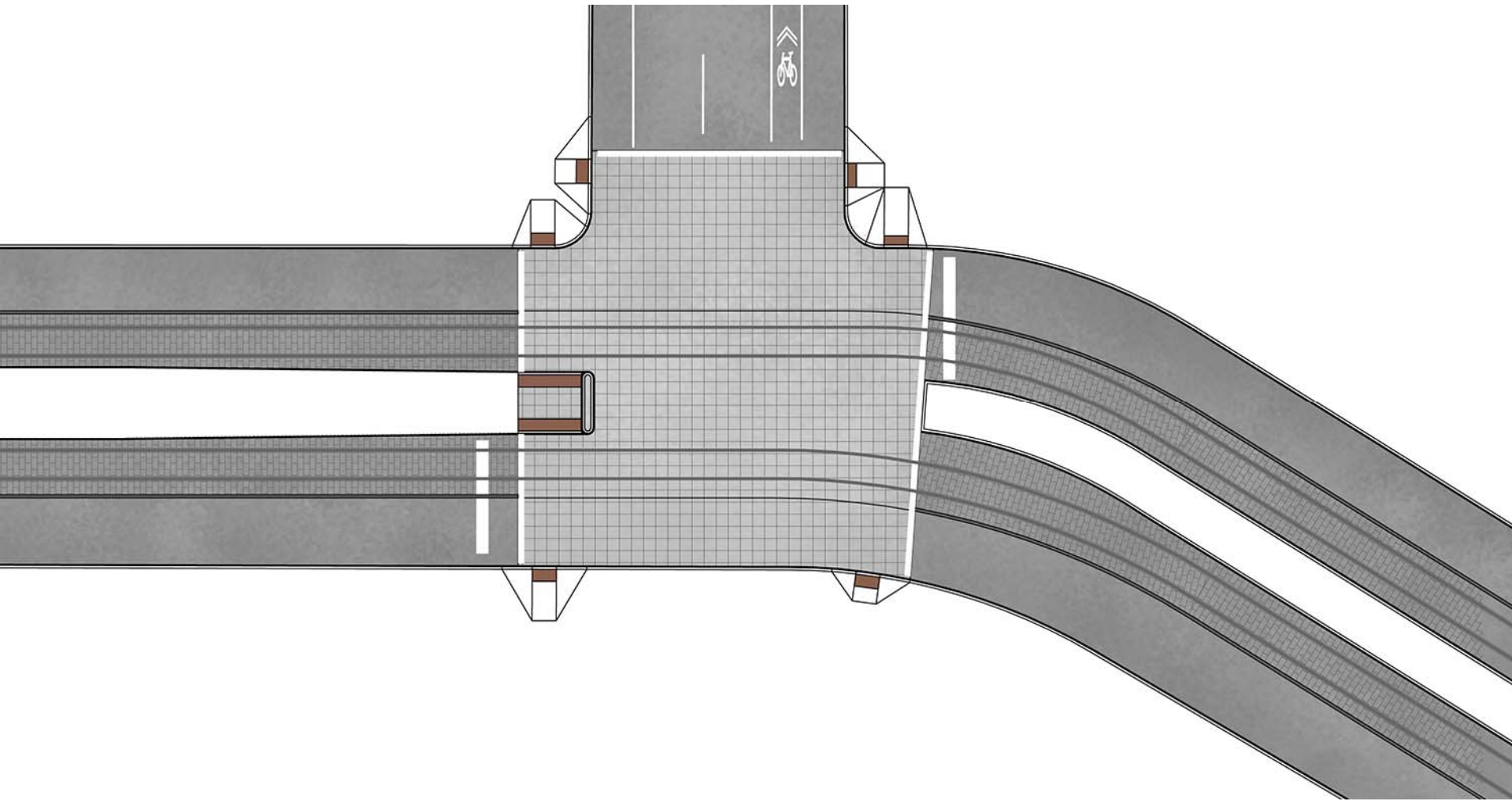
Safety

Elements

Experience

Operations

SCRAMBLE INTERSECTIONS



Pioneer Square

Project Status

Multi-Modal

Context

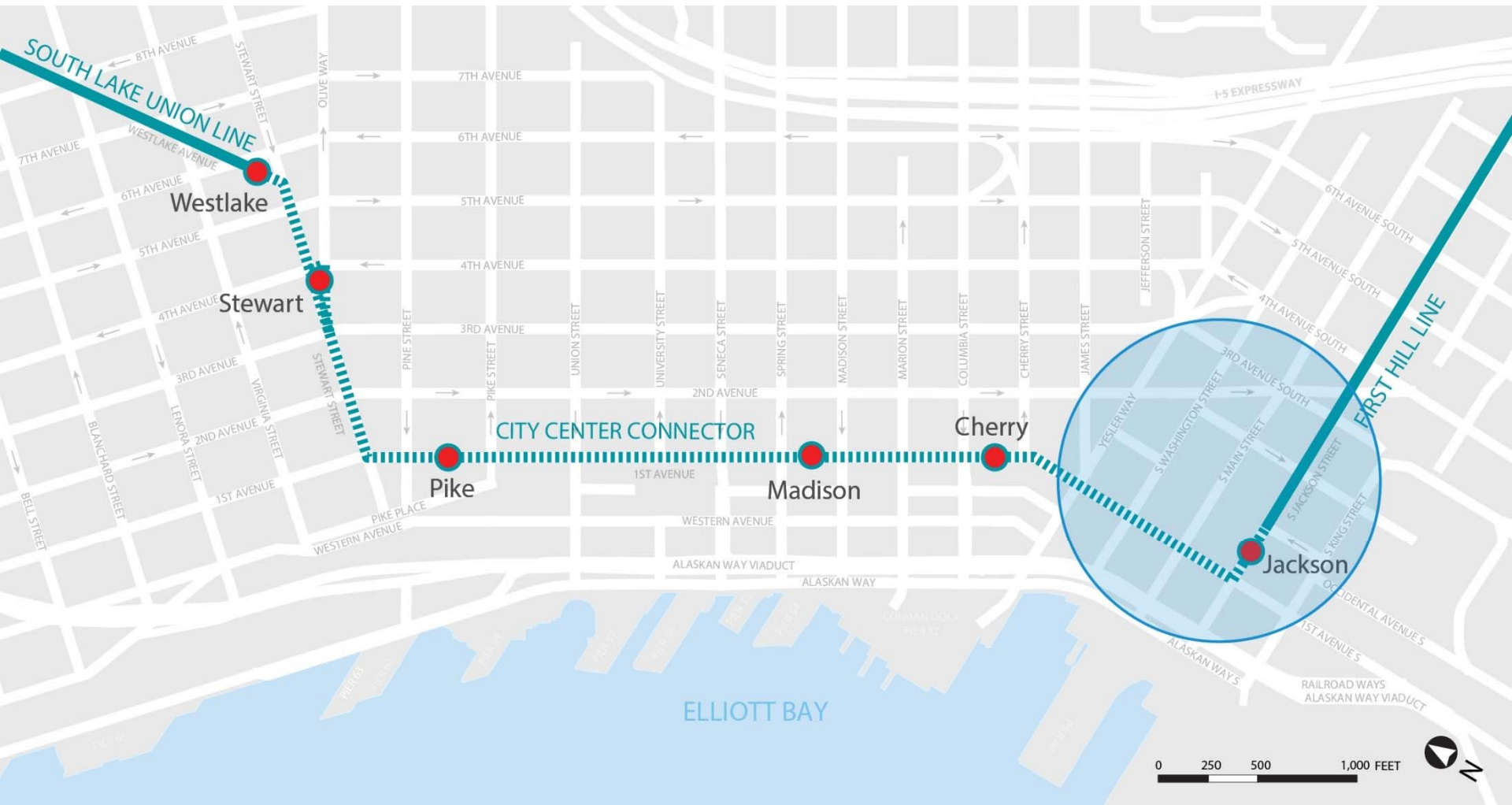
Safety

Elements

Experience

Operations

BICYCLE SAFETY



Pioneer Square

Project Status

Multi-Modal

Context

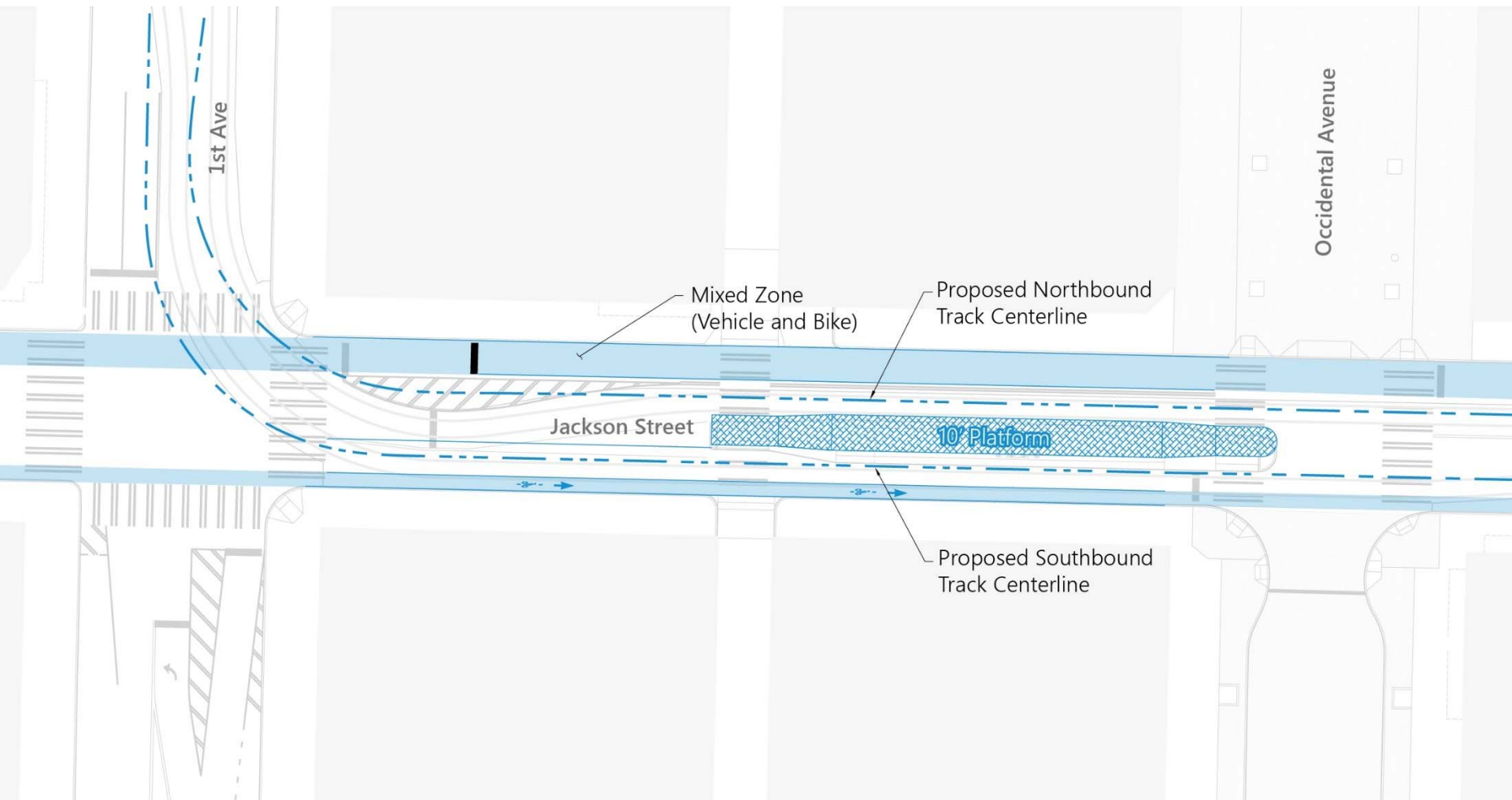
Safety

Elements

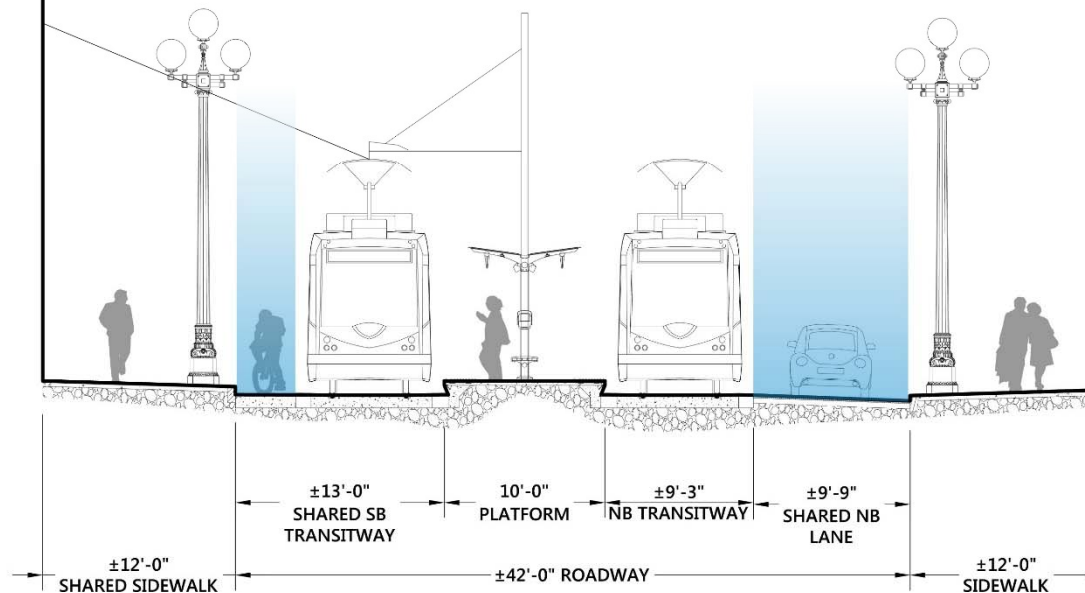
Experience

Operations

BICYCLE SAFETY – JACKSON & 1ST



BICYCLE SAFETY – JACKSON & 1ST



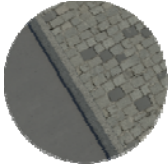
Pioneer Square

PIONEER SQUARE BOULEVARD DESIGN ELEMENTS

PIONEER SQAURE STATION ELEMENTS



Stone
Transitway



Stone
Delineator



Red Oak
(Quercus Rubra)



Center
Shelters



Waste Receptacle



Ticket Vending
Machine



ORCA Reader



Pioneer Square

Project Status

Multi-Modal

Context

Safety

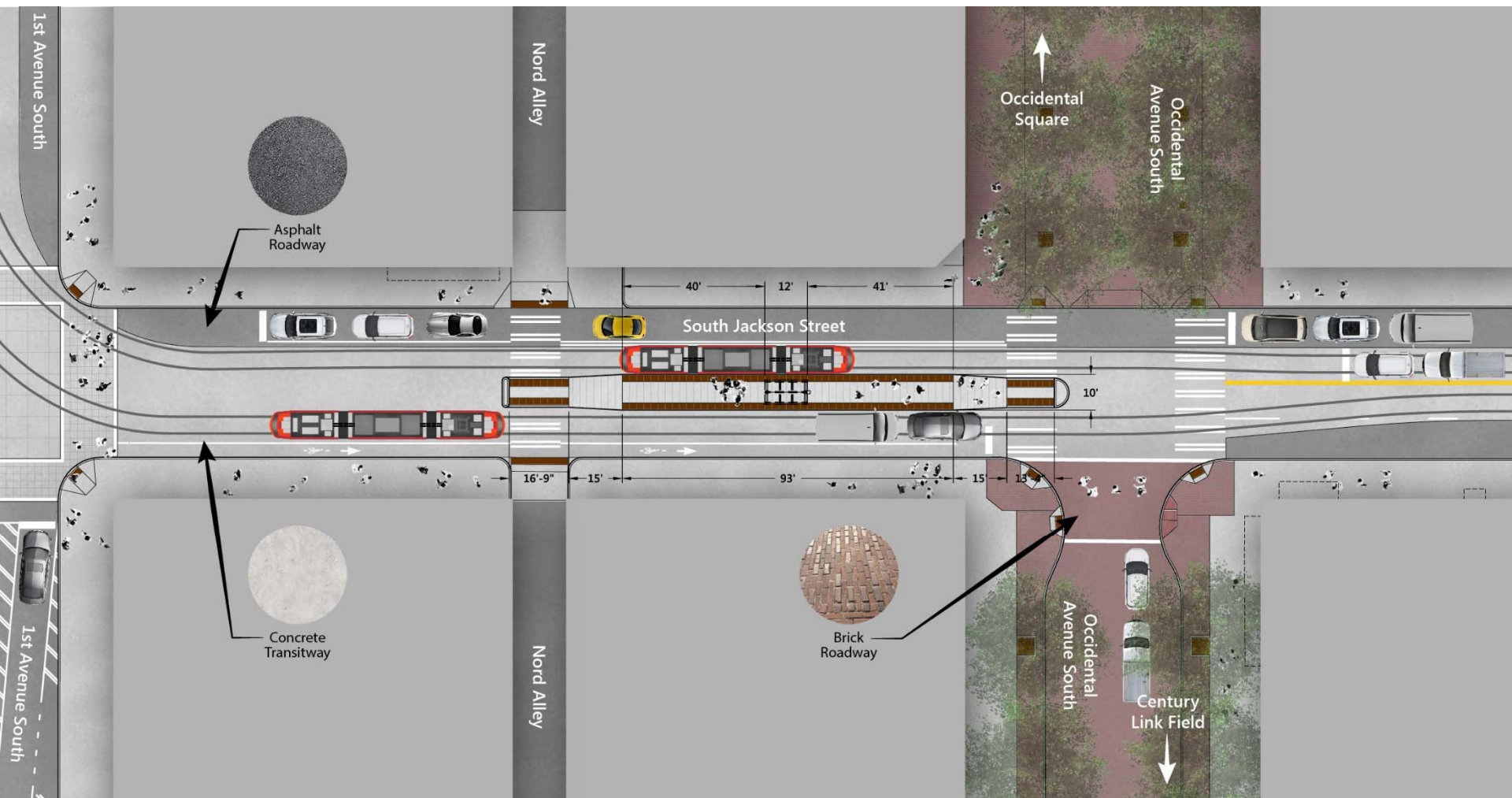
Elements

Experience

Operations

PIONEER SQUARE BOULEVARD USER EXPERIENCE

JACKSON STATION - SITE PLAN



Pioneer Square

Project Status

Multi-Modal

Context

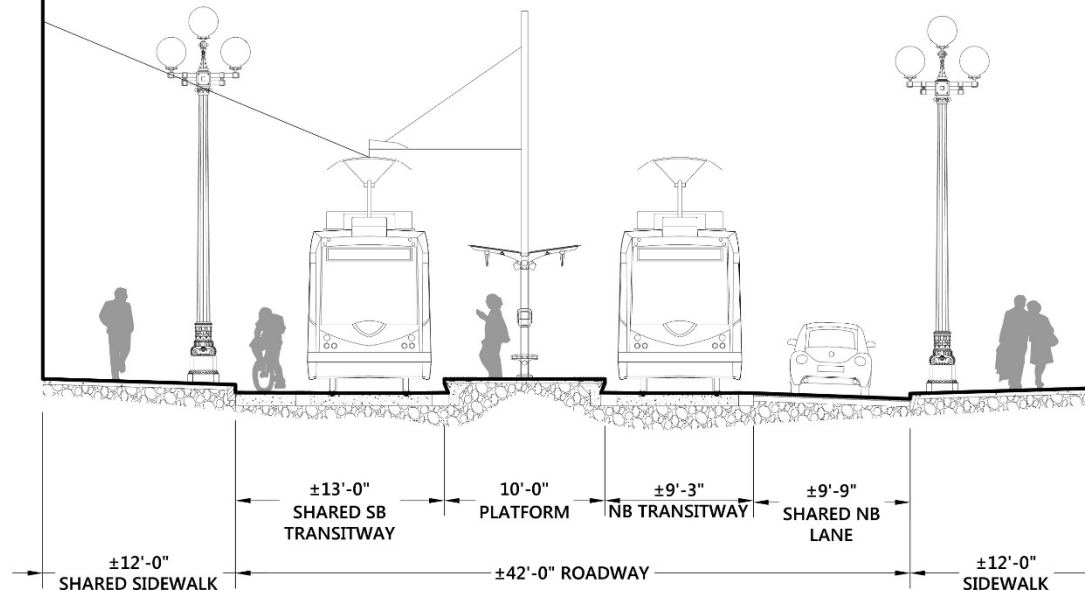
Safety

Elements

Experience

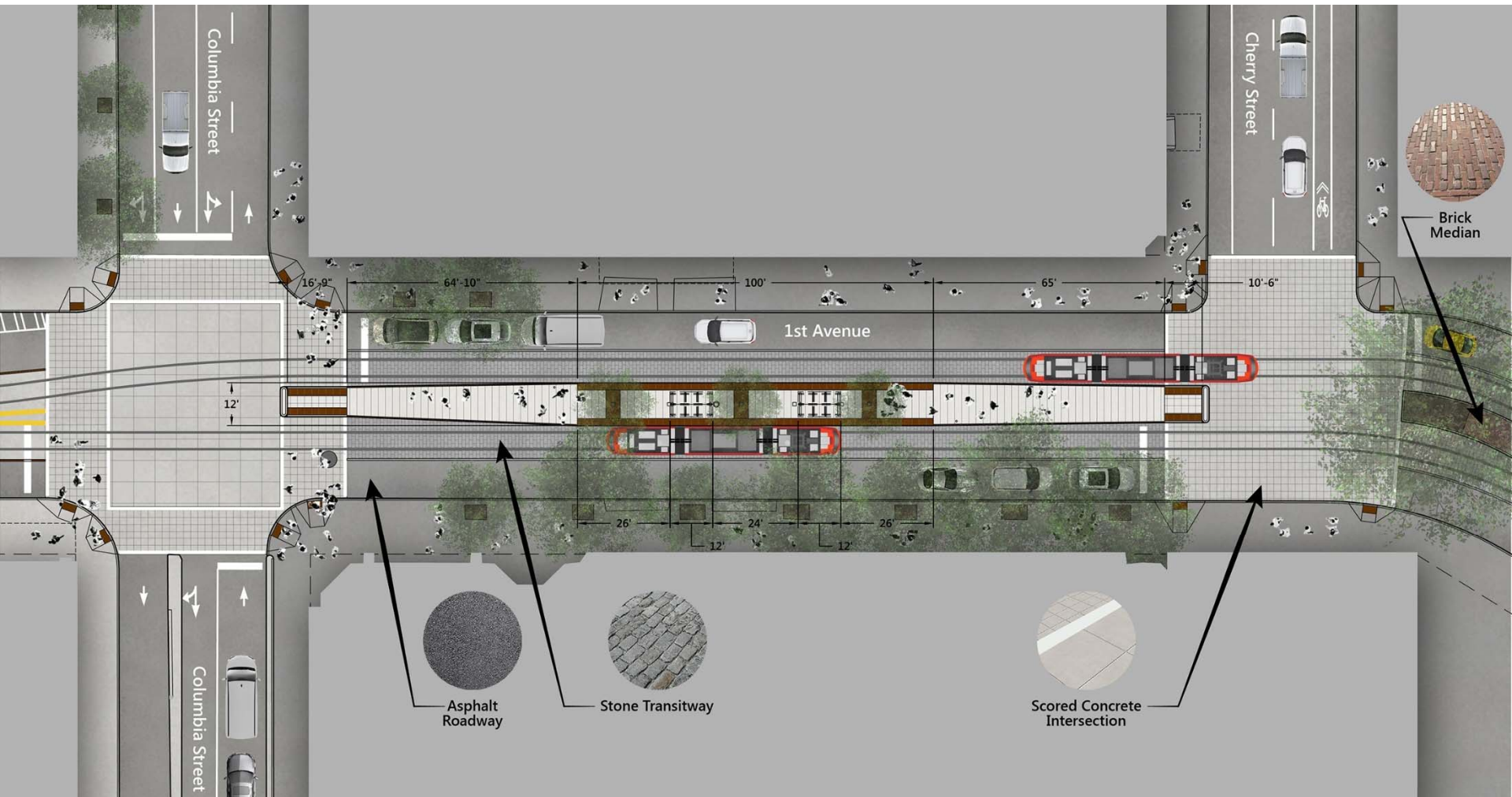
Operations

JACKSON STATION – SECTION (WEST)



Pioneer Square

CHERRY STATION - SITE PLAN



Pioneer Square

Project Status

Multi-Modal

Context

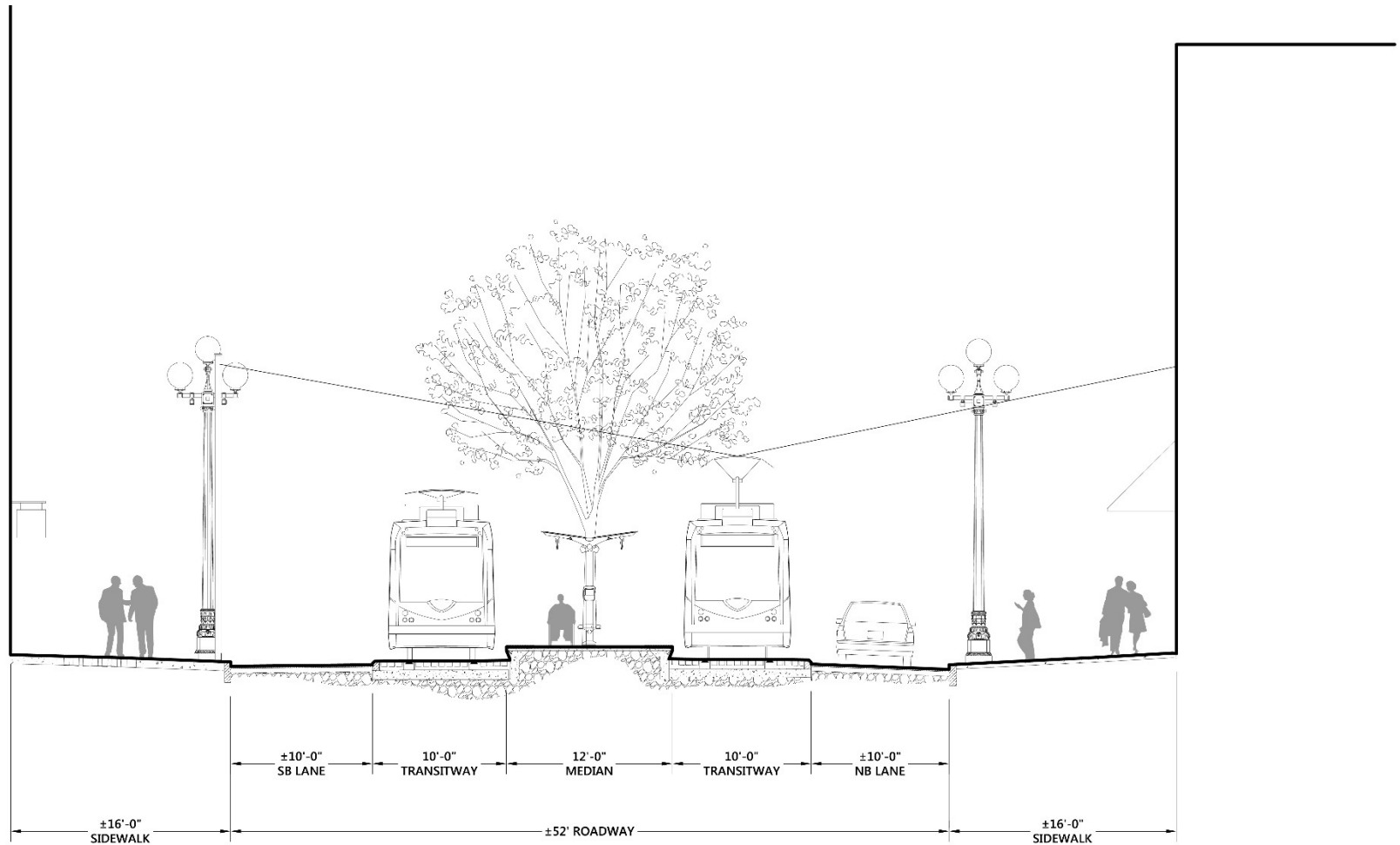
Safety

Elements

Experience

Operations

CHERRY STATION – SECTION (NORTH)



Pioneer Square

Project Status

Multi-Modal

Context

Safety

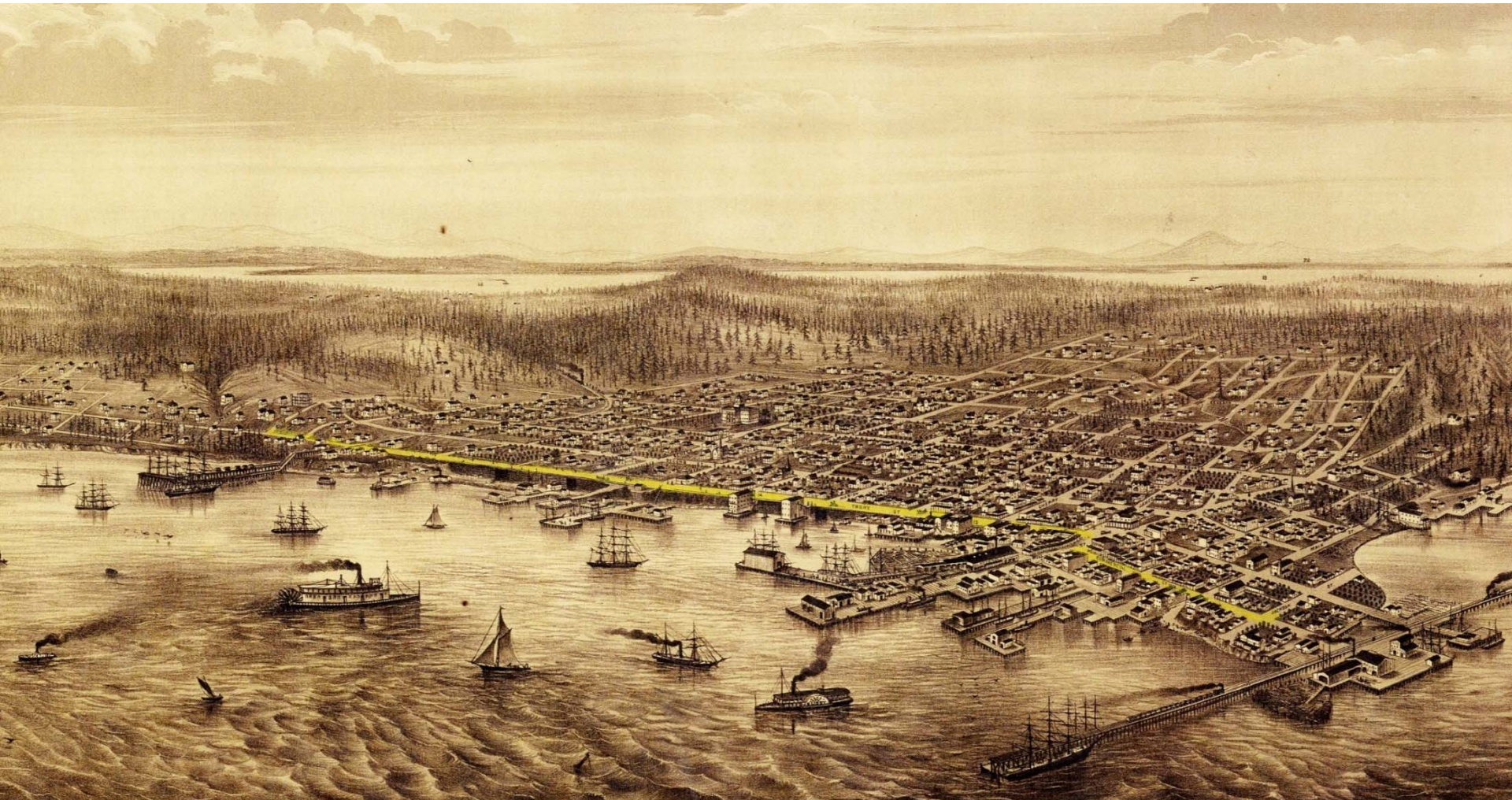
Elements

Experience

Operations

1ST AVENUE BALCONY CONTEXT

1ST AVENUE AS SEATTLE'S BALCONY PROMENADE



1st Ave Balcony

Project Status

Multi-Modal

Context

Safety

Elements

Experience

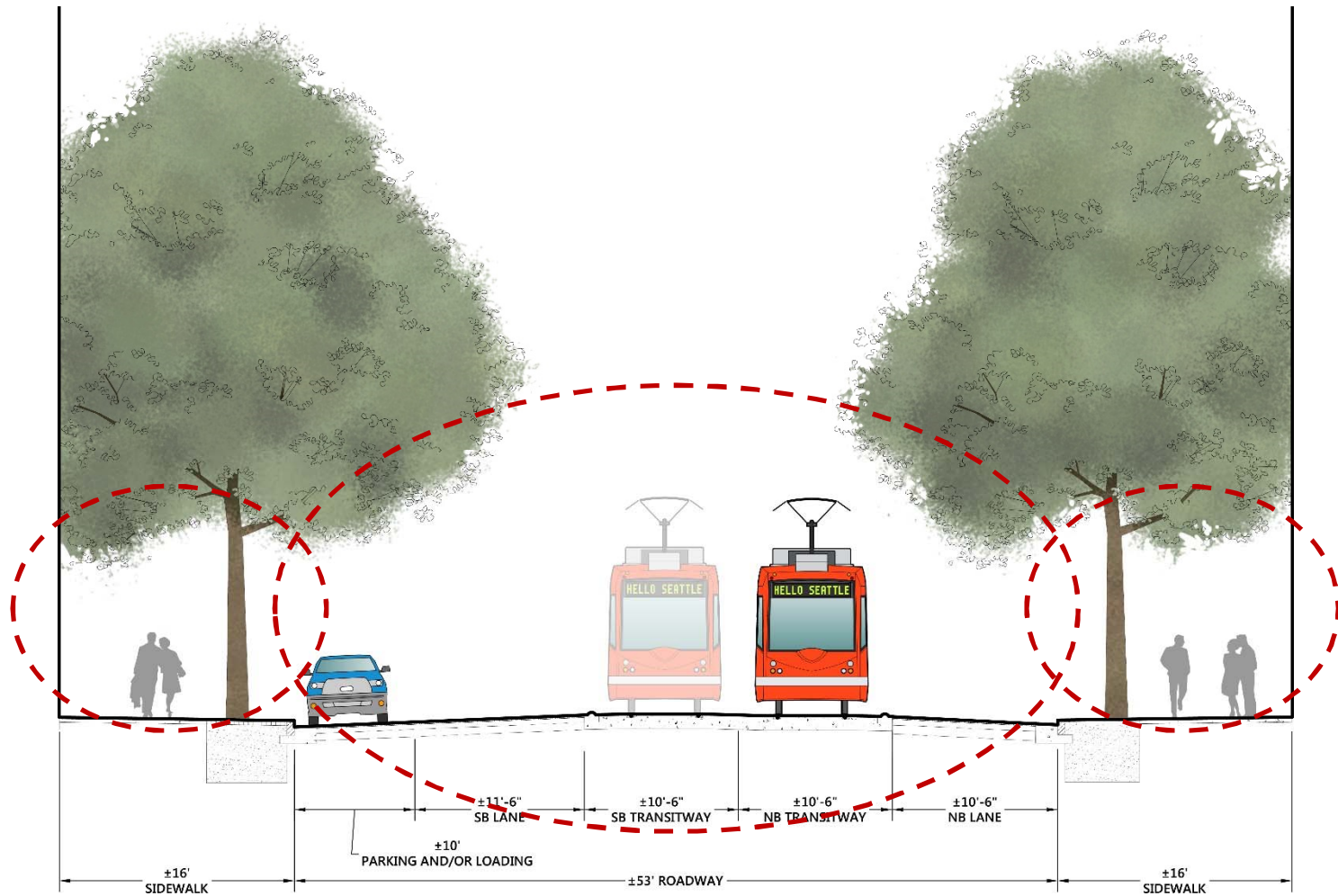
Operations







1ST AVENUE STREET SECTION (NORTH)



1st Ave Balcony

Project Status

Multi-Modal

Context

Safety

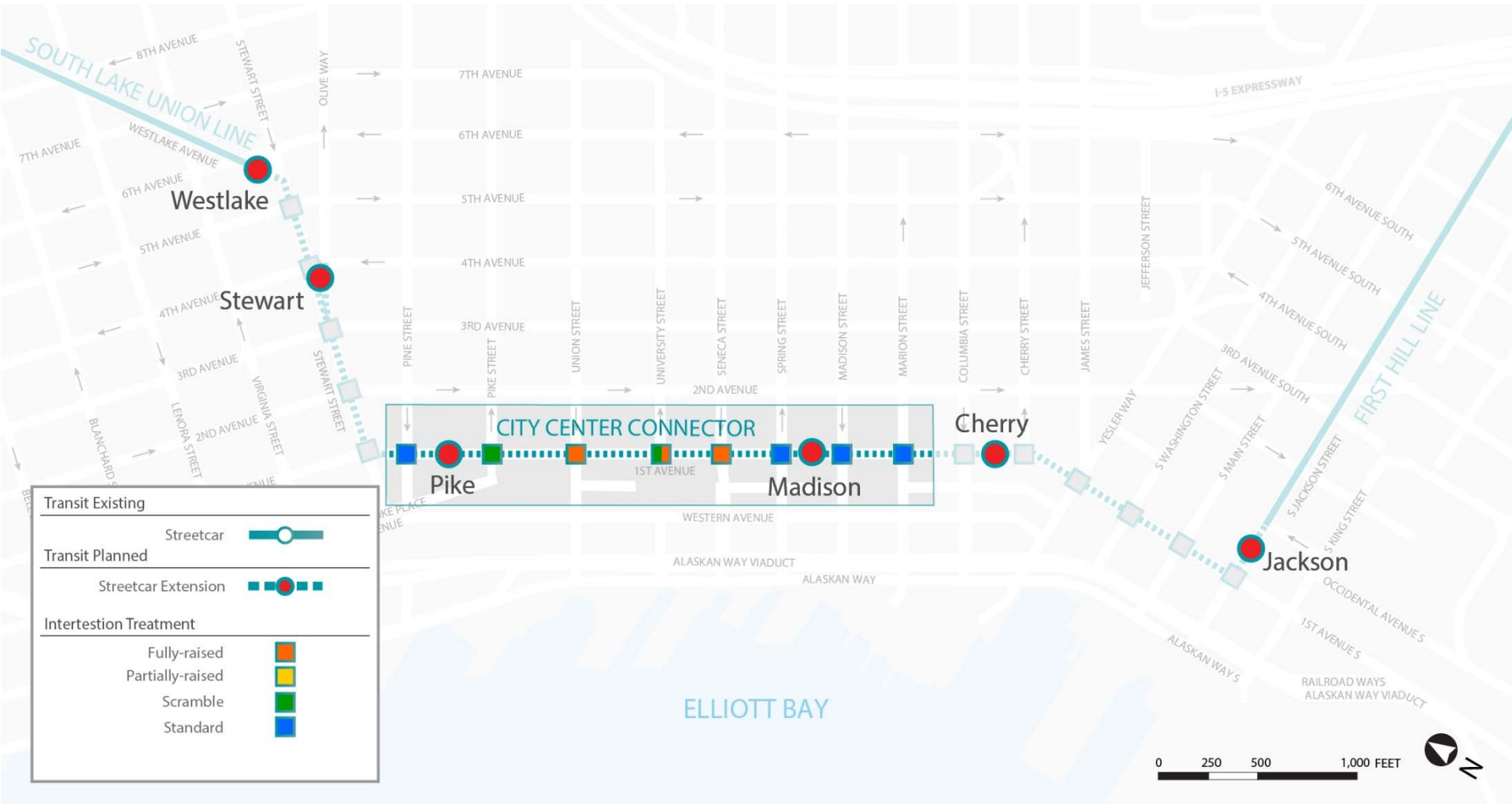
Elements

Experience

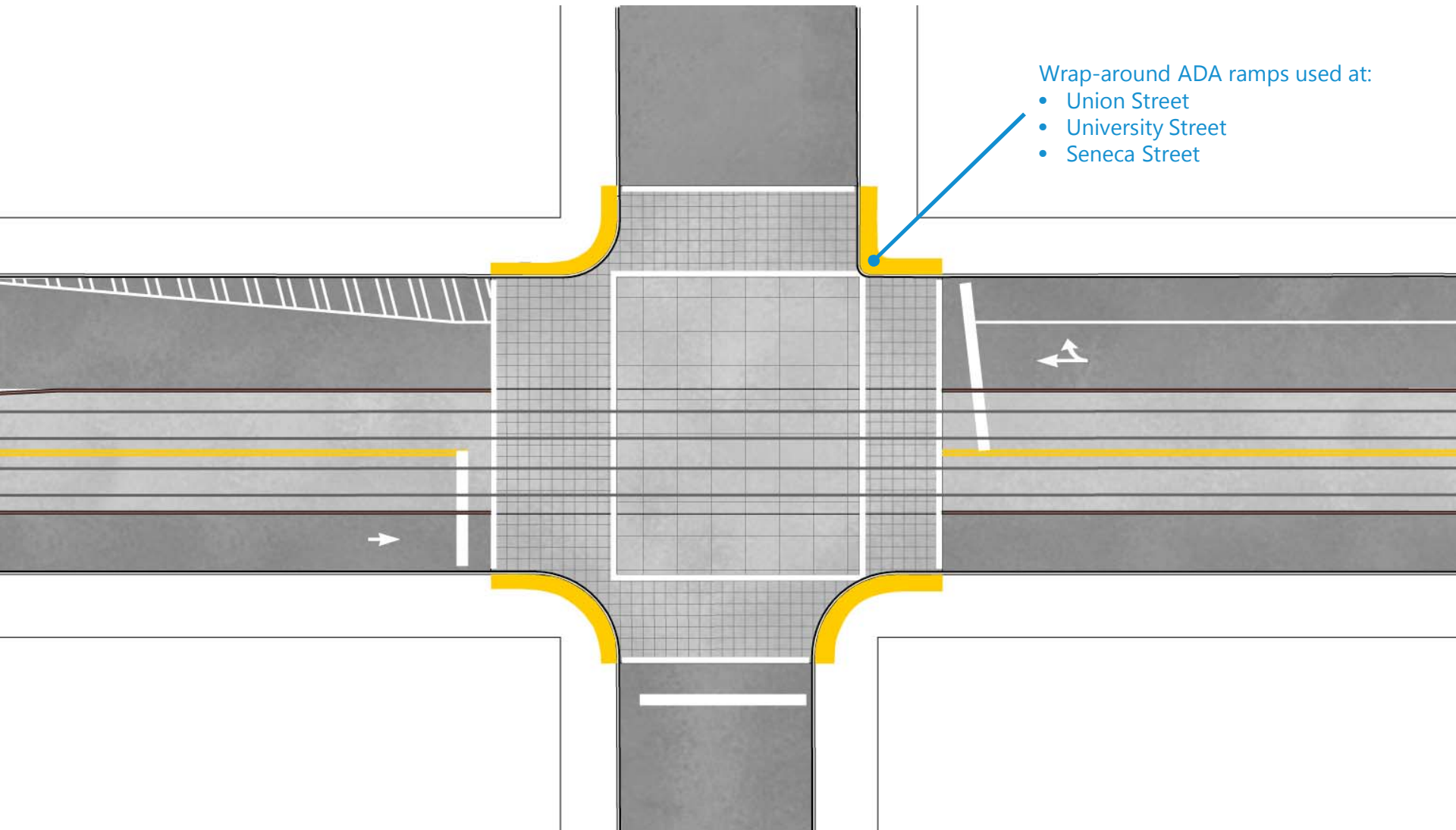
Operations

1ST AVENUE BALCONY SAFETY

INTERSECTION TREATMENTS



WRAP-AROUND ADA RAMPS

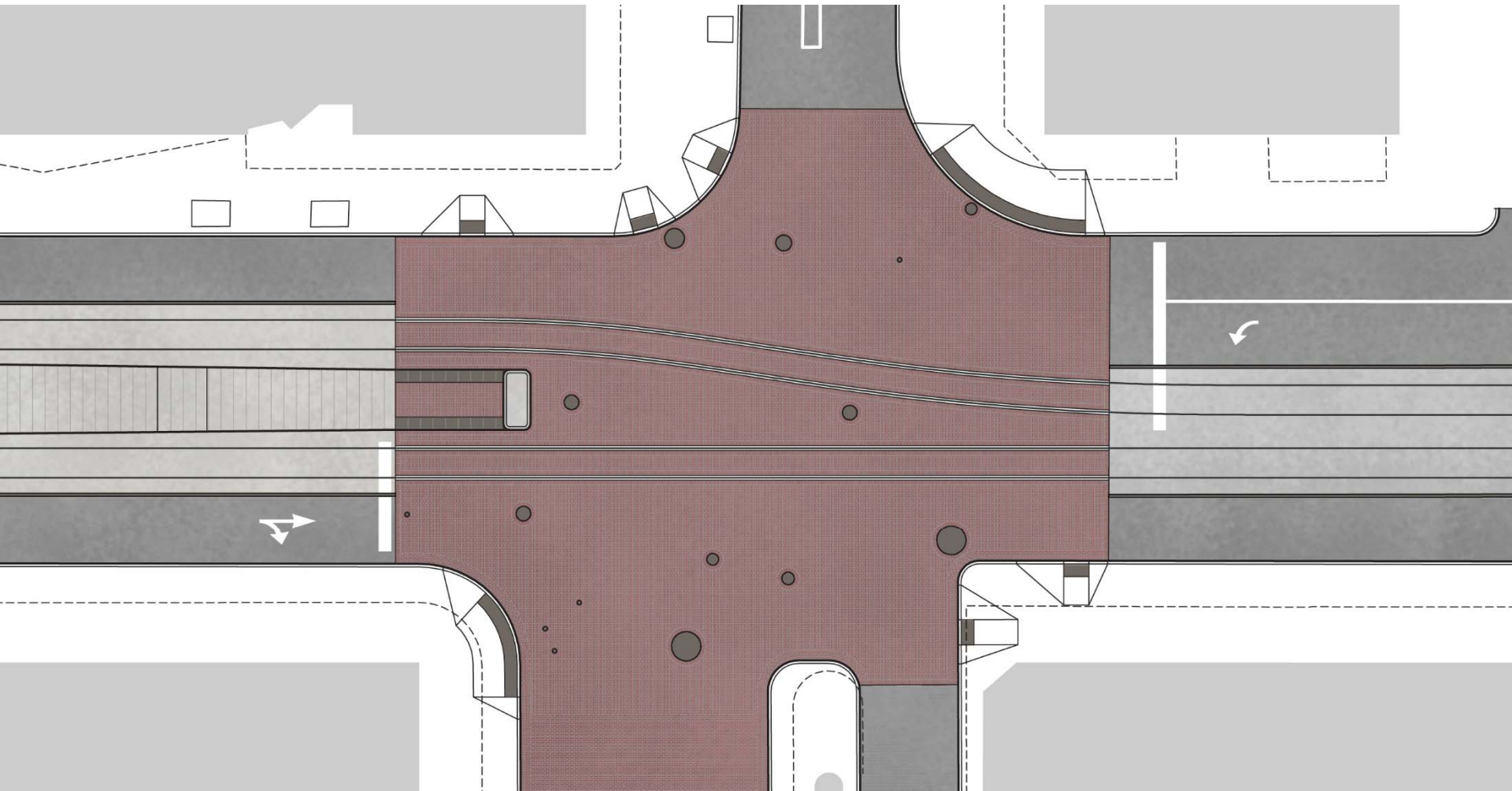


Wrap-around ADA ramps used at:

- Union Street
- University Street
- Seneca Street

1st Ave Balcony

PIKE PLACE BRICK-PAVED SCRAMBLE



1st Ave Balcony

Project Status

Multi-Modal

Context

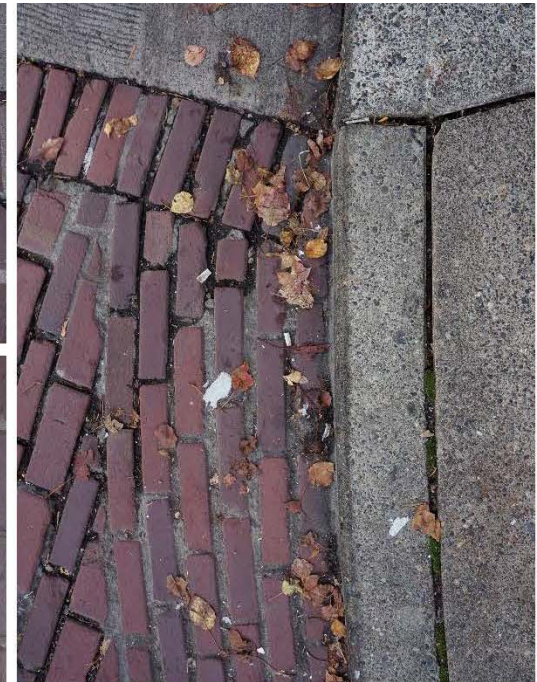
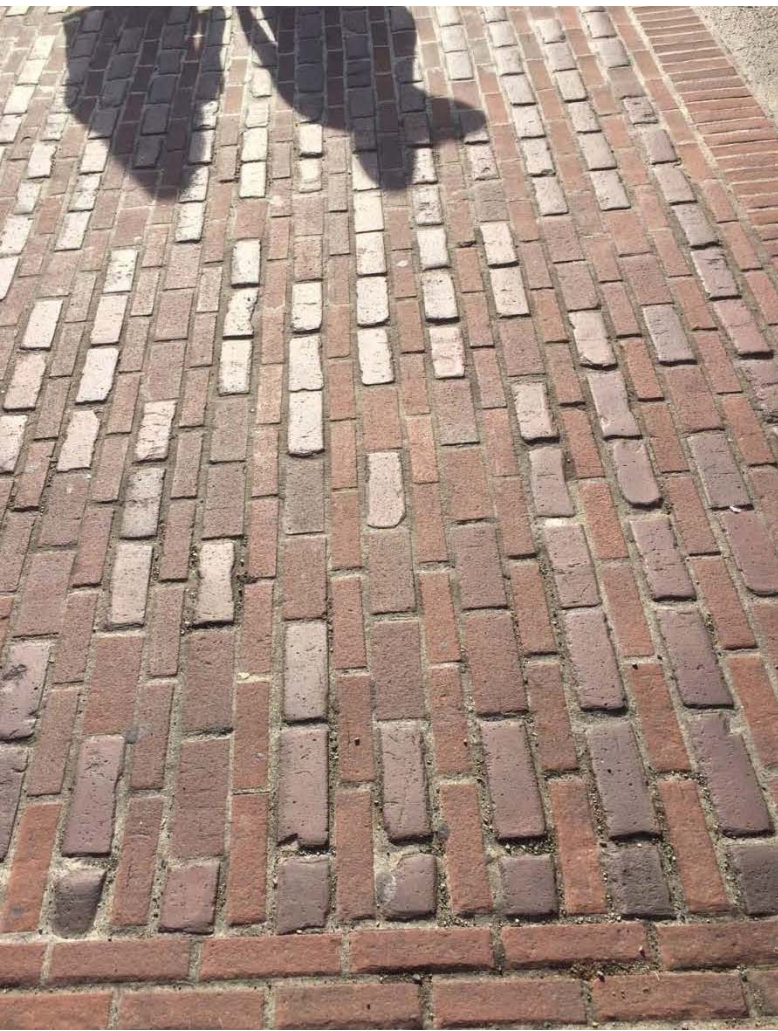
Safety

Elements

Experience

Operations

PIKE INTERSECTION MATERIALS



1st Ave Balcony

Project Status

Multi-Modal

Context

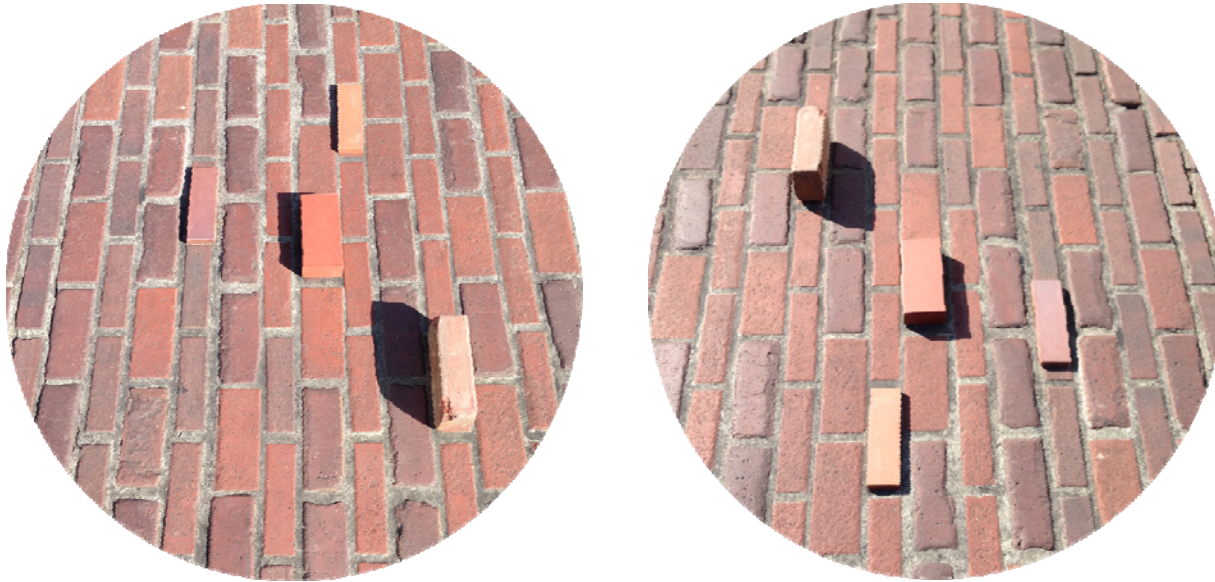
Safety

Elements

Experience

Operations

PIKE INTERSECTION MATERIALS



1st Avenue & Pike Place
Brick Paving

1st Ave Balcony

Project Status

Multi-Modal

Context

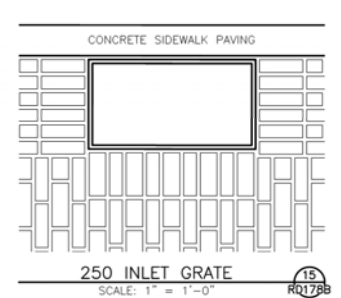
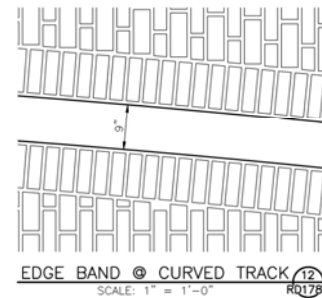
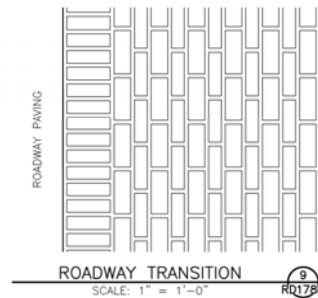
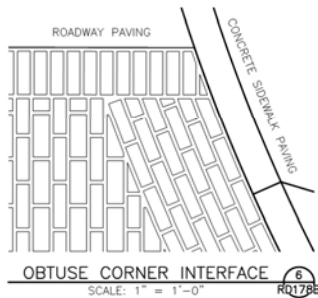
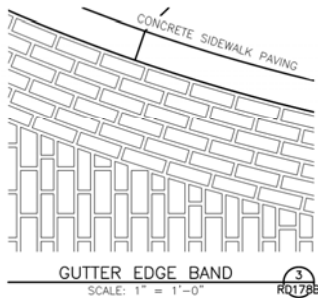
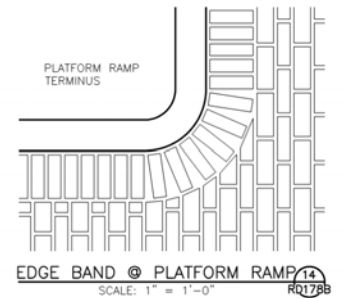
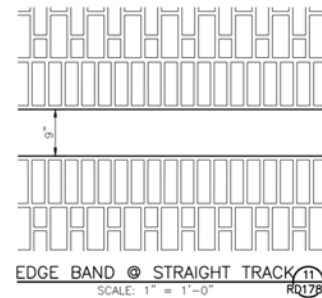
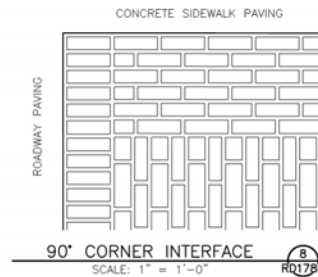
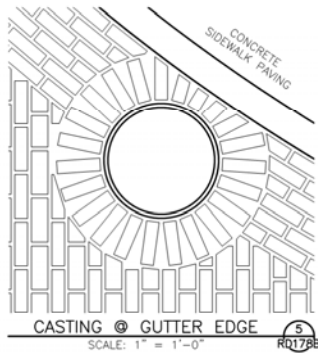
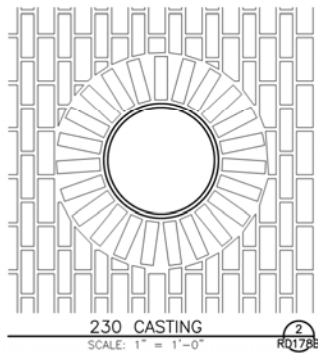
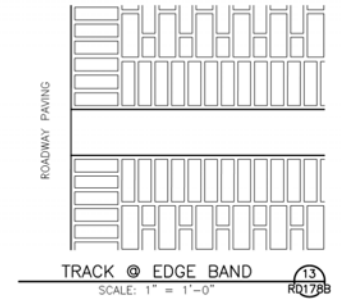
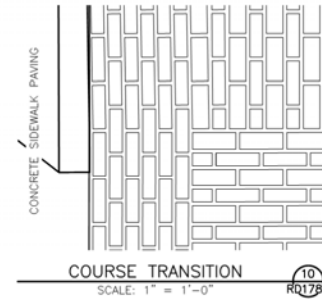
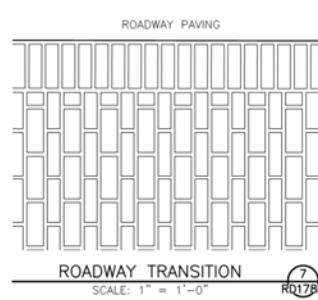
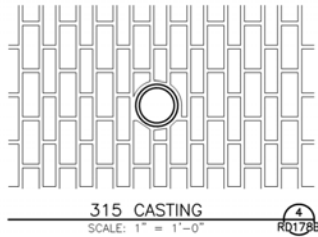
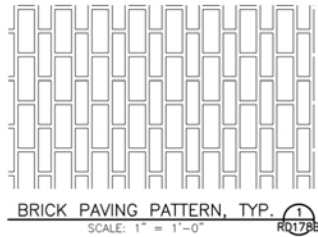
Safety

Elements

Experience

Operations

PIKE INTERSECTION BRICK DETAILS



1st Ave Balcony

Project Status

Multi-Modal

Context

Safety

Elements

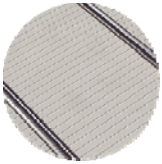
Experience

Operations

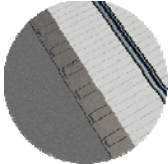
1ST AVENUE BALCONY

DESIGN ELEMENTS

MADISON STATION ELEMENTS



Concrete
Transitway



Cast Iron
Delineator



Center
Shelters



RapidRide
Blade Sign



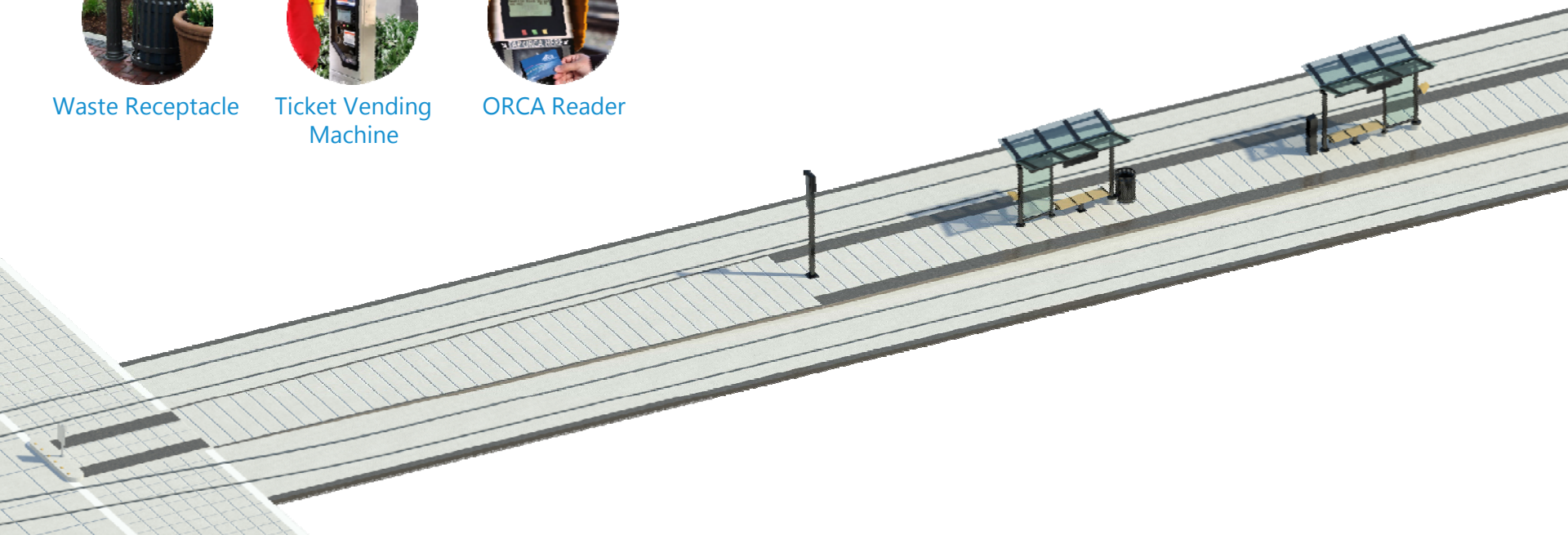
Waste Receptacle



Ticket Vending
Machine



ORCA Reader



1st Ave Balcony

Project Status

Multi-Modal

Context

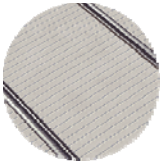
Safety

Elements

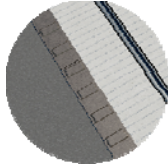
Experience

Operations

PIKE STATION ELEMENTS



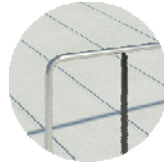
Concrete
Transitway



Cast Iron
Delineator



Center
Shelters



Steel Railing



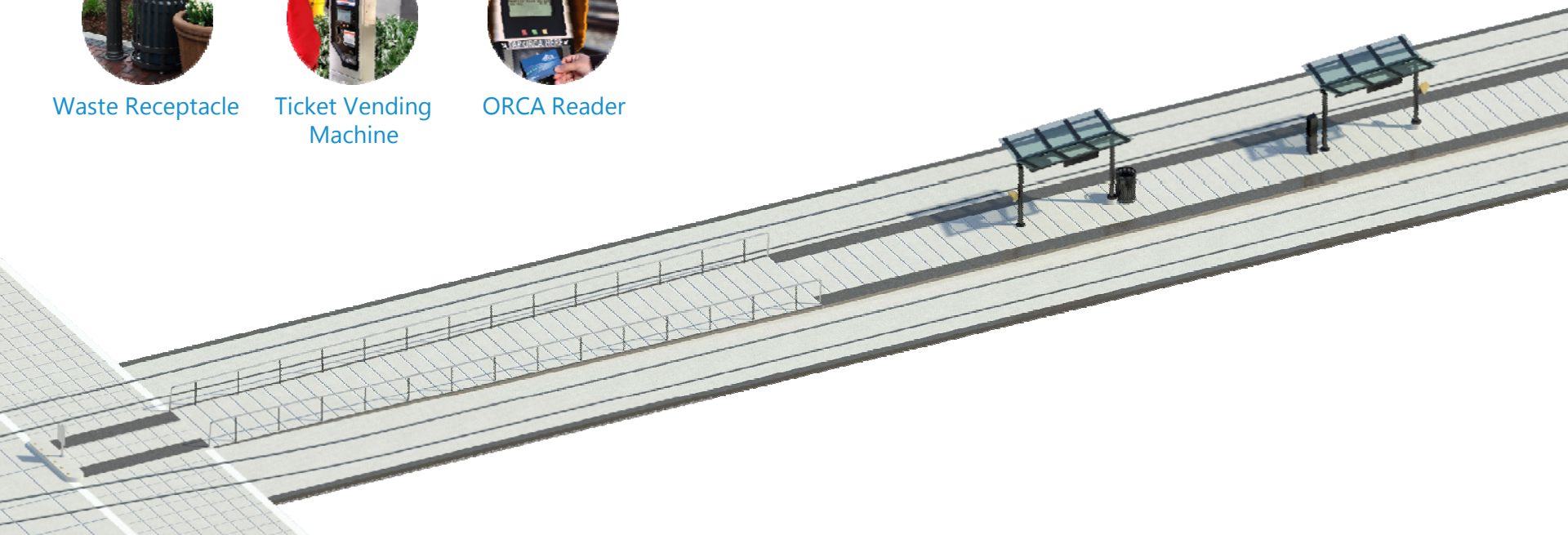
Waste Receptacle



Ticket Vending
Machine



ORCA Reader

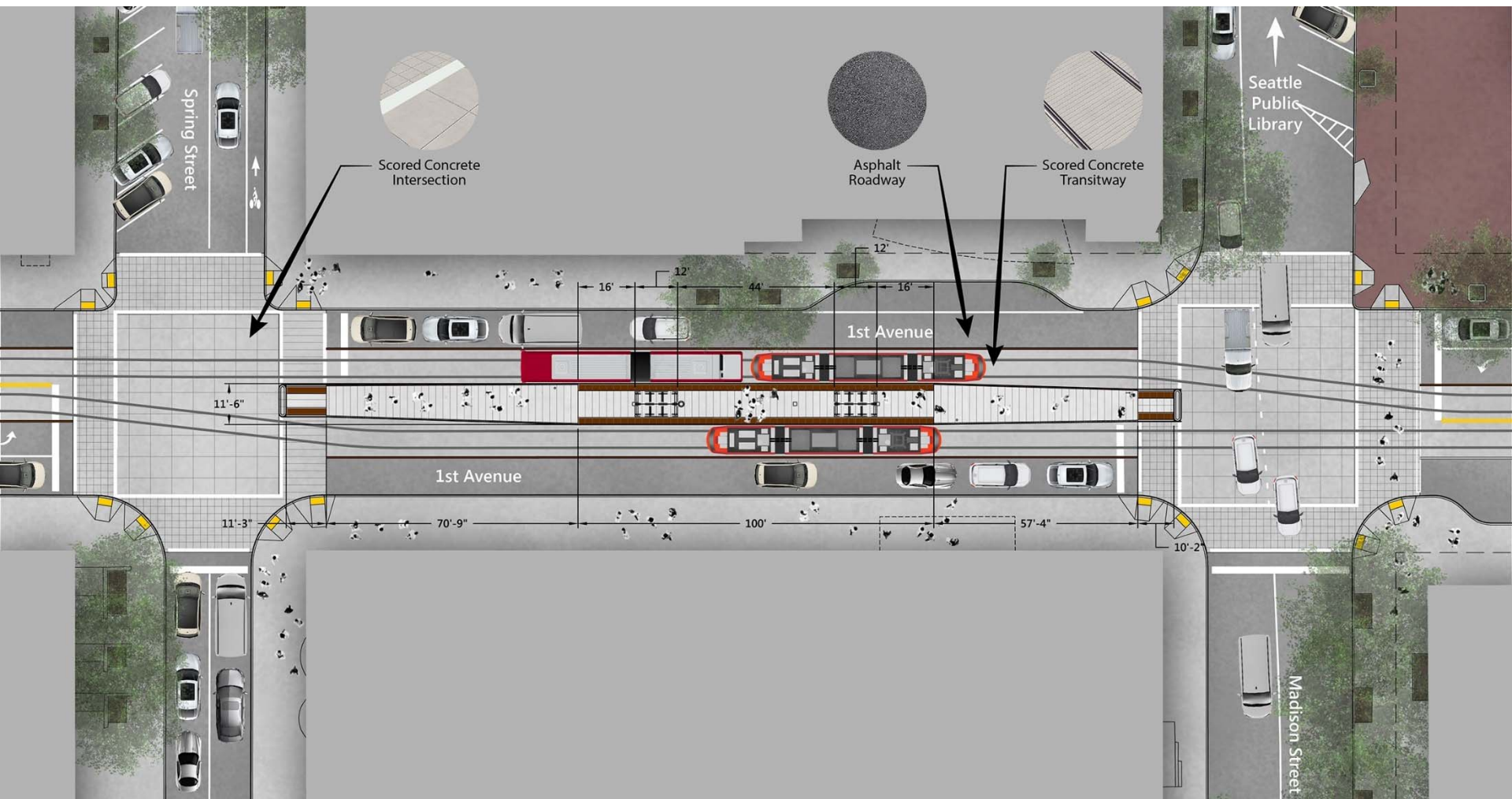


1st Ave Balcony

1ST AVENUE BALCONY

USER EXPERIENCE

MADISON STATION - SITE PLAN



1st Ave Balcony

Project Status

Multi-Modal

Context

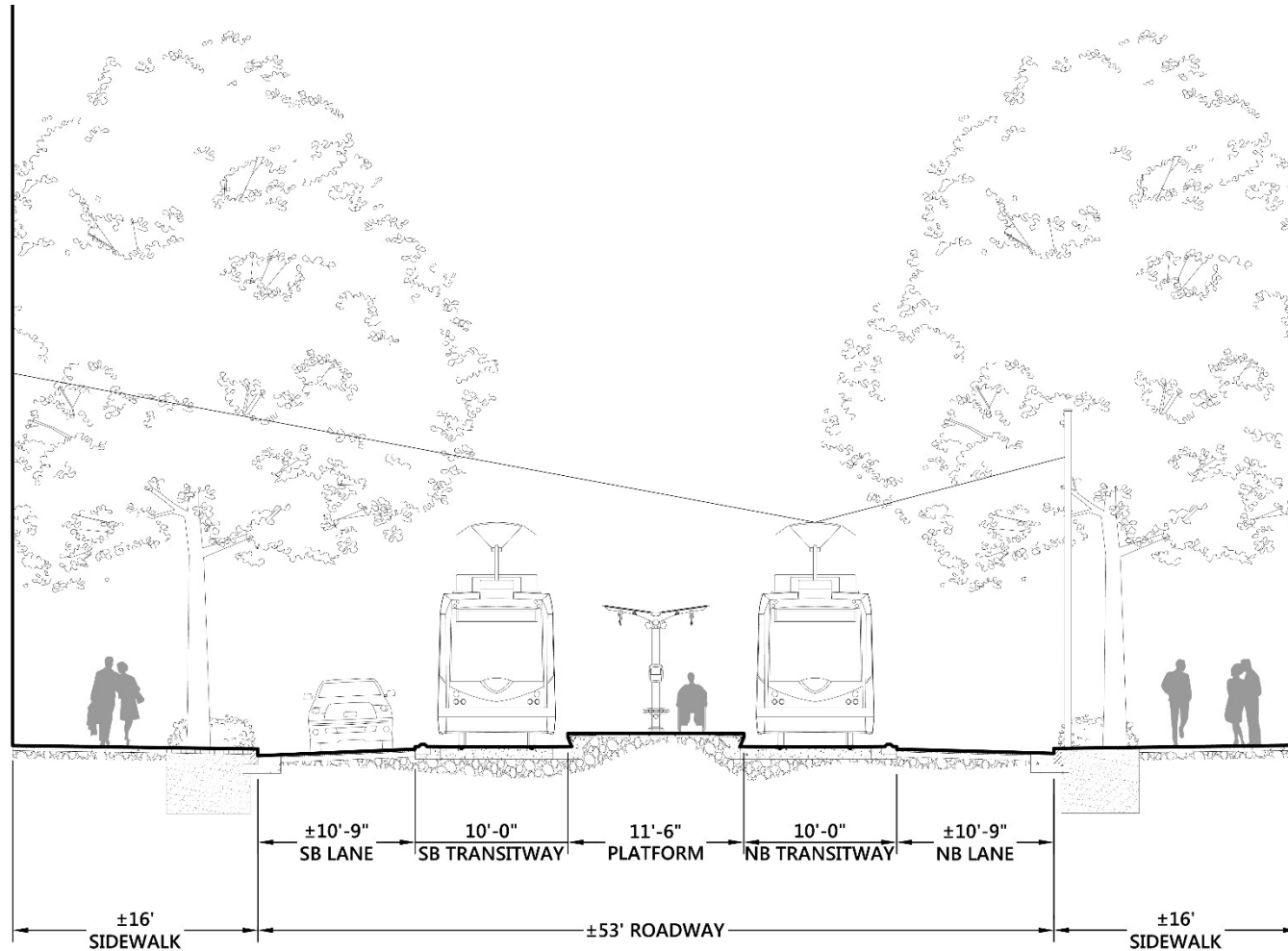
Safety

Elements

Experience

Operations

MADISON STATION – SECTION (NORTH)



1st Ave Balcony



PIKE STATION – SITE PLAN



1st Ave Balcony

Project Status

Multi-Modal

Context

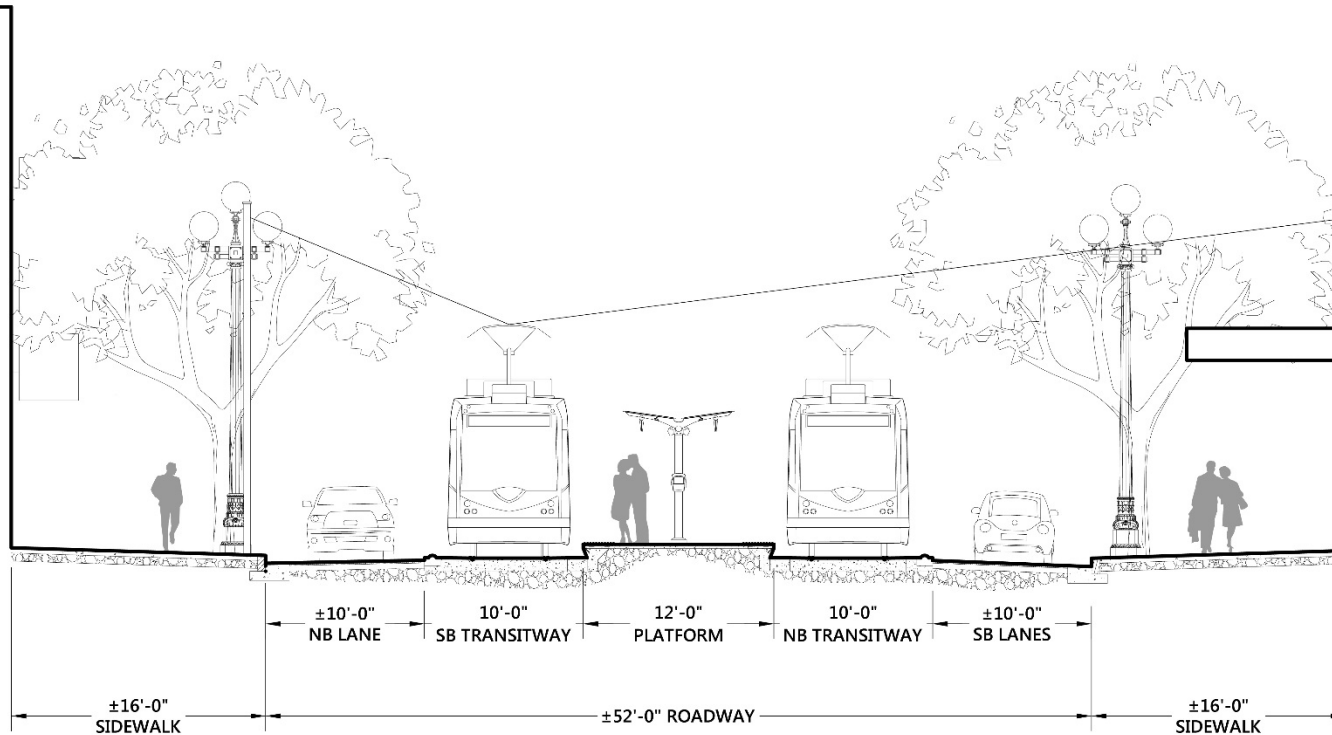
Safety

Elements

Experience

Operations

PIKE STATION – SECTION (SOUTH)



1st Ave Balcony

Project Status

Multi-Modal

Context

Safety

Elements

Experience

Operations



STEWART STREET ROOMS

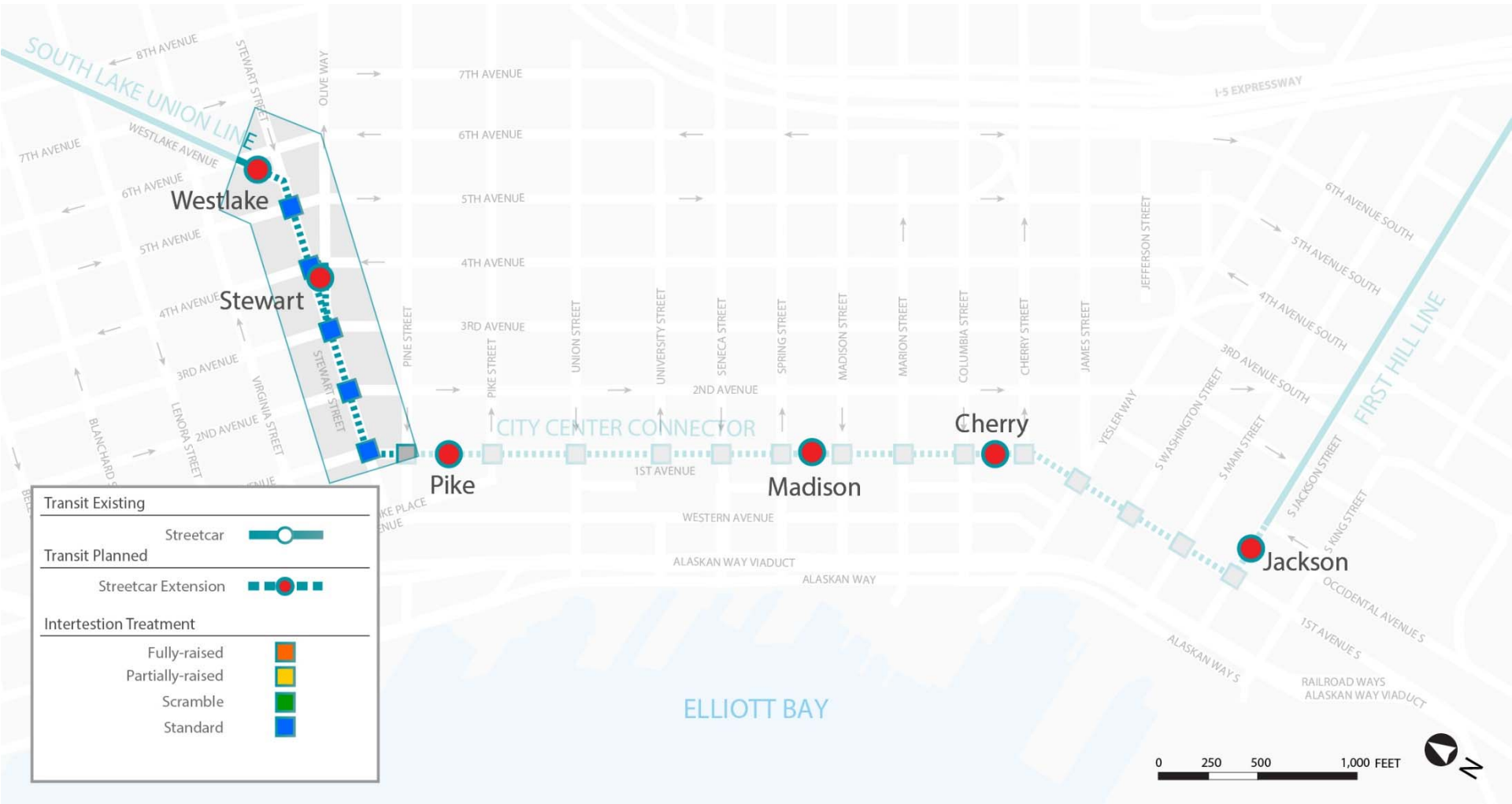
CONTEXT



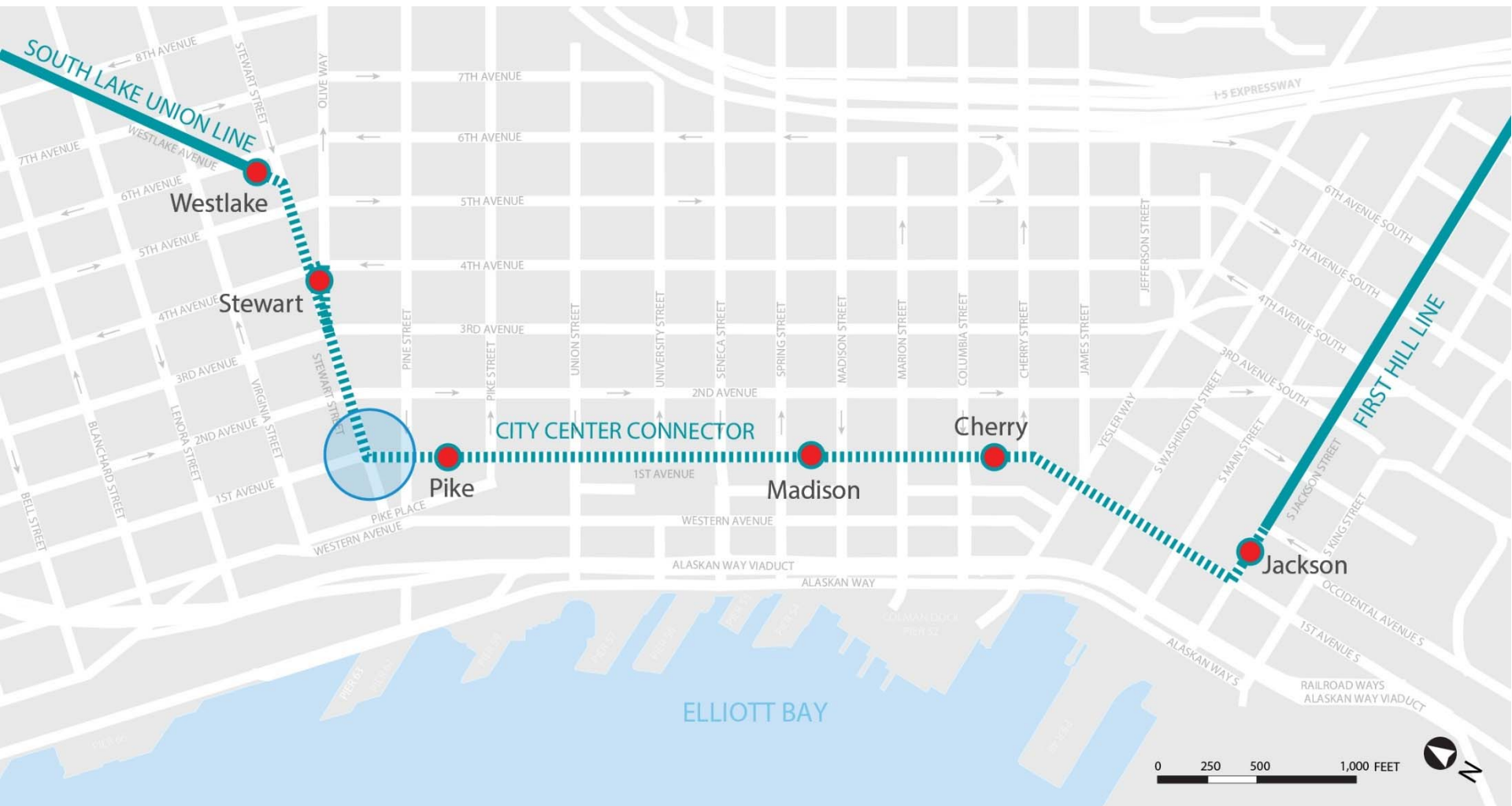


STEWART STREET ROOMS SAFETY

INTERSECTION TREATMENTS



BICYCLE SAFETY – 1ST AND STEWART



Stewart Rooms

Project Status

Multi-Modal

Context

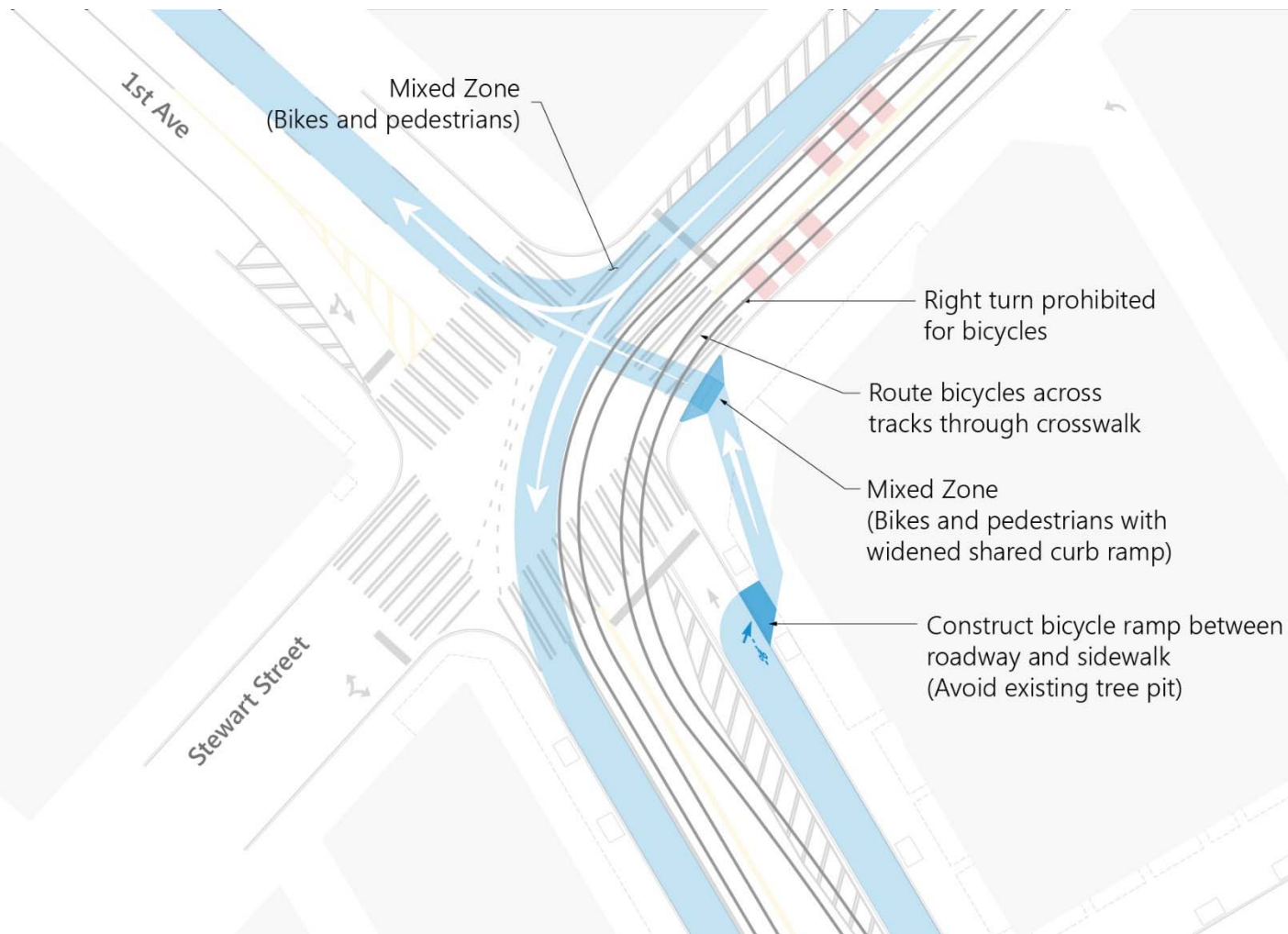
Safety

Elements

Experience

Operations

BICYCLE SAFETY – 1ST AND STEWART



Stewart Rooms

Project Status

Multi-Modal

Context

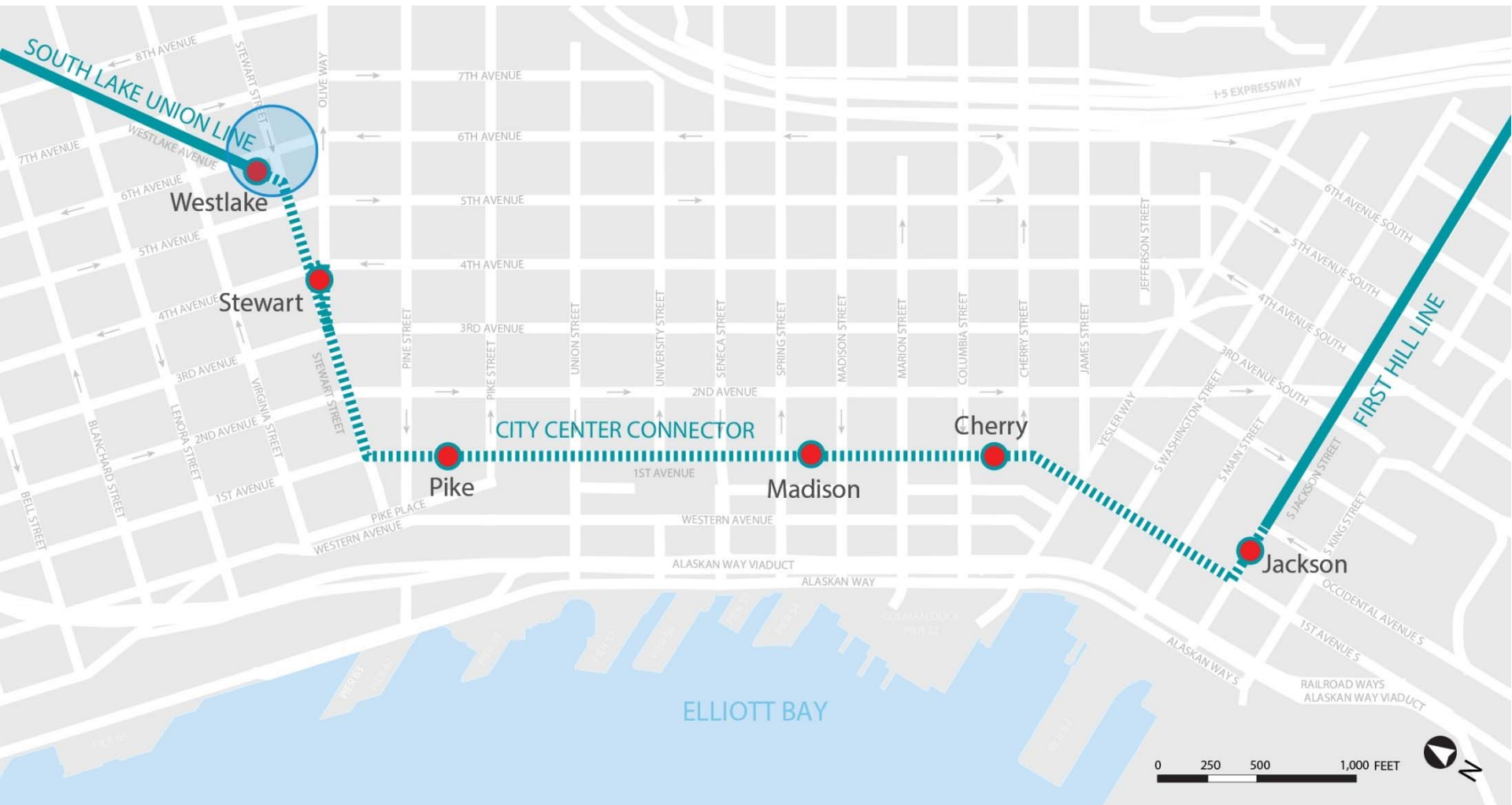
Safety

Elements

Experience

Operations

BICYCLE SAFETY – WESTLAKE AND STEWART



Stewart Rooms

Project Status

Multi-Modal

Context

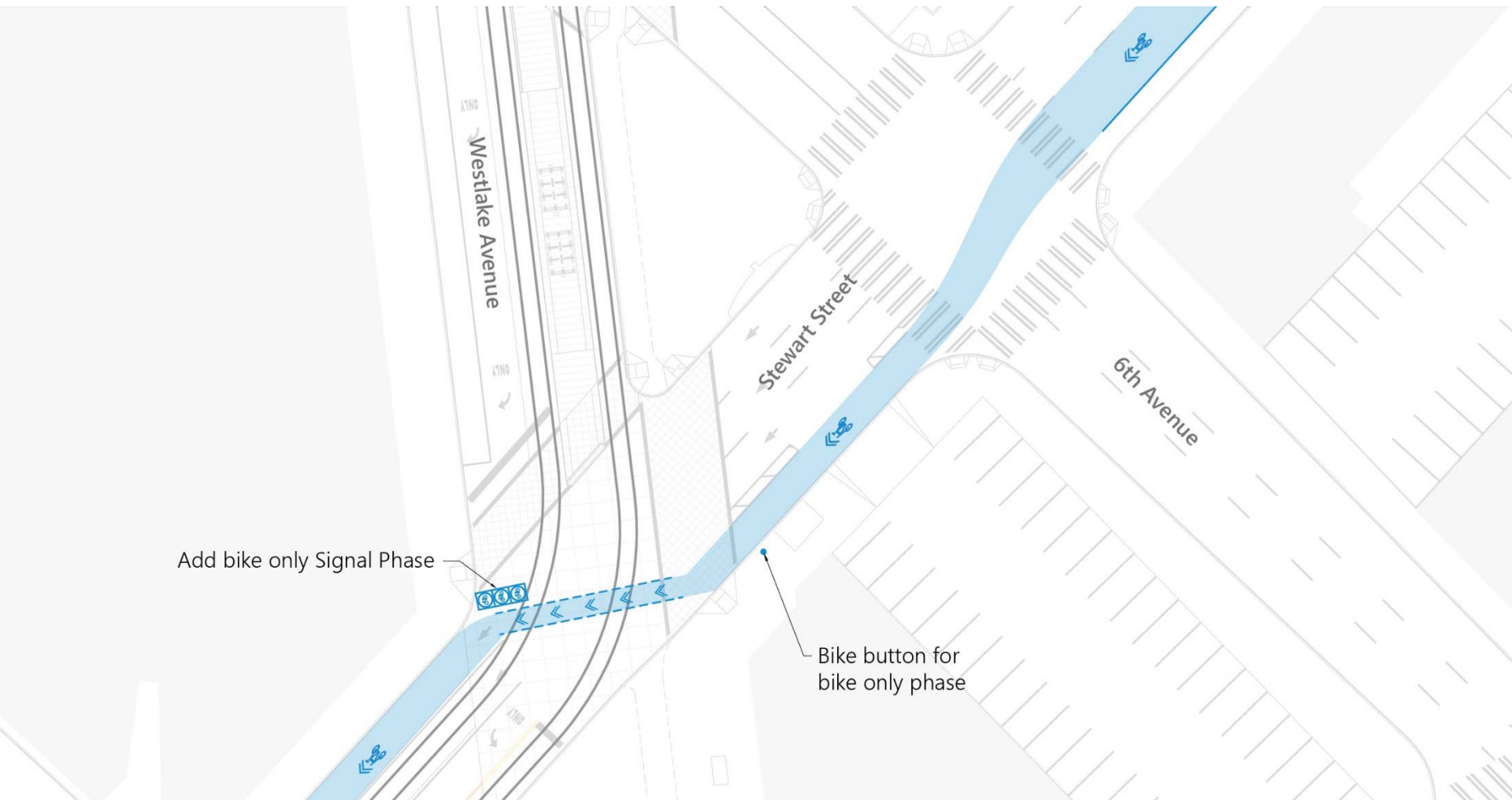
Safety

Elements

Experience

Operations

BICYCLE SAFETY – WESTLAKE AND STEWART



Stewart Rooms

Project Status

Multi-Modal

Context

Safety

Elements

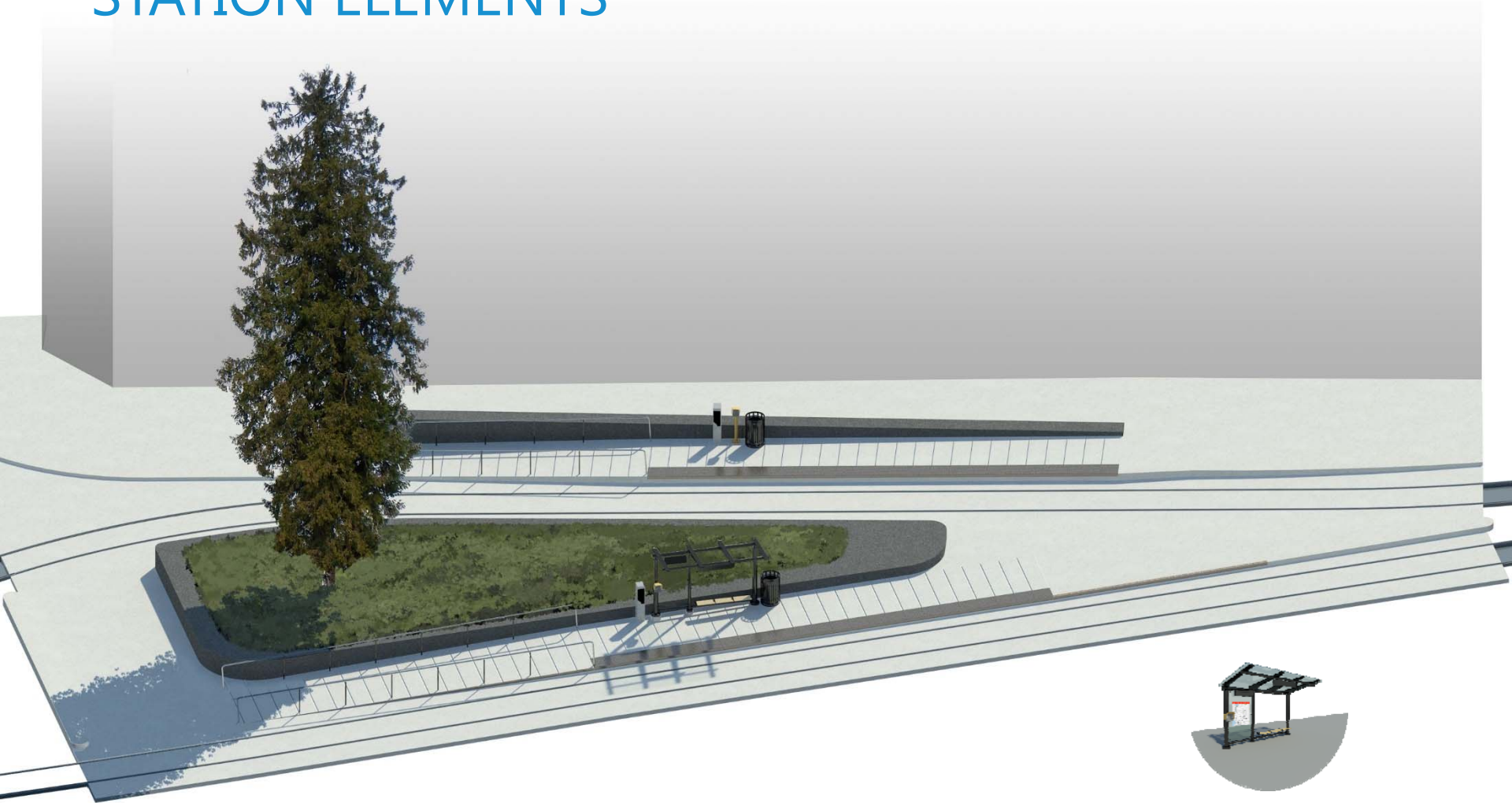
Experience

Operations

STEWART STREET ROOMS

DESIGN ELEMENTS

STATION ELEMENTS



Single-sided
Shelter

Stewart Rooms

Project Status

Multi-Modal

Context

Safety

Elements

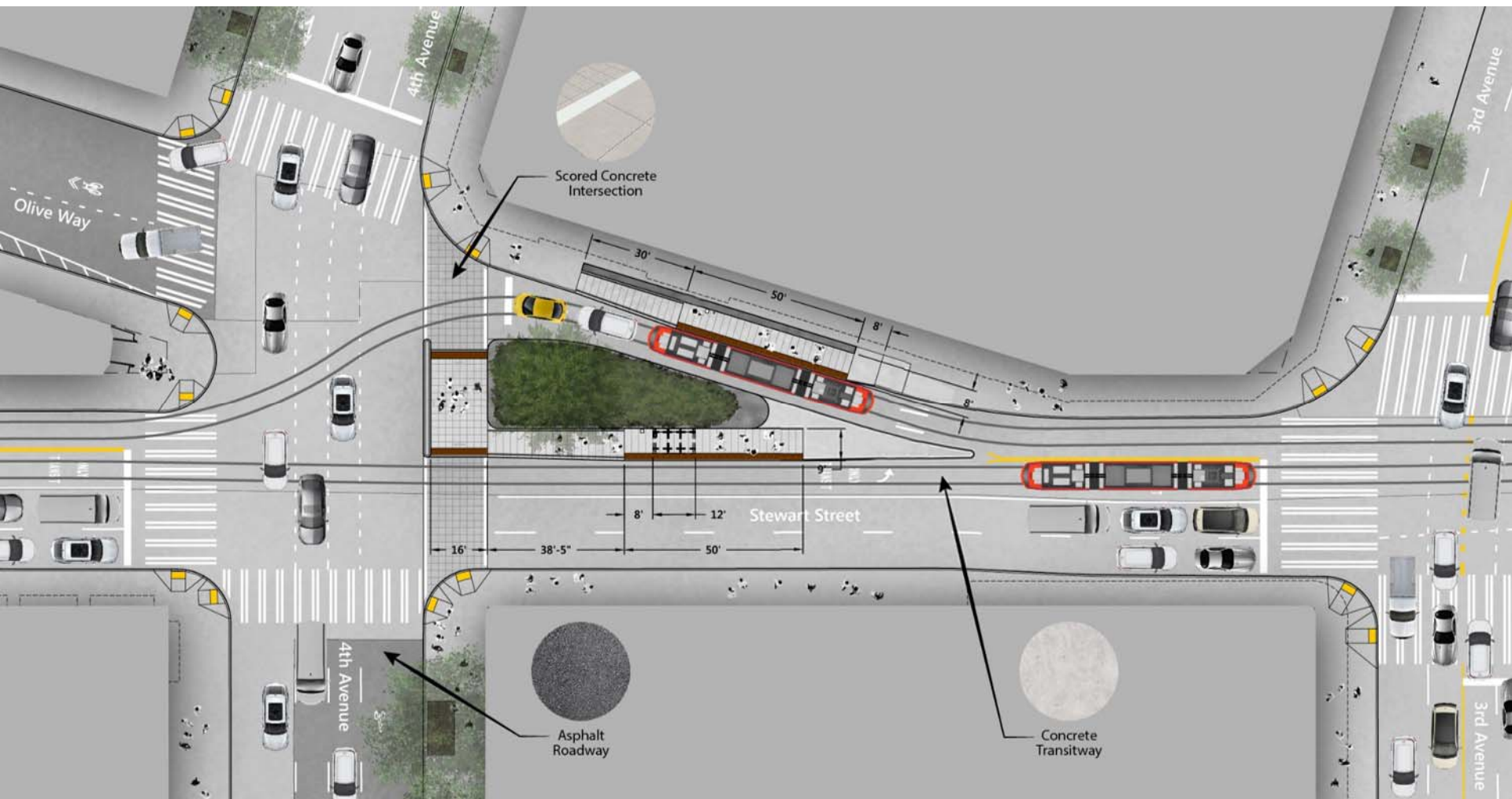
Experience

Operations

STEWART STREET ROOMS

USER EXPERIENCE

STEWART STATION - SITE PLAN



Stewart Rooms

Project Status

Multi-Modal

Context

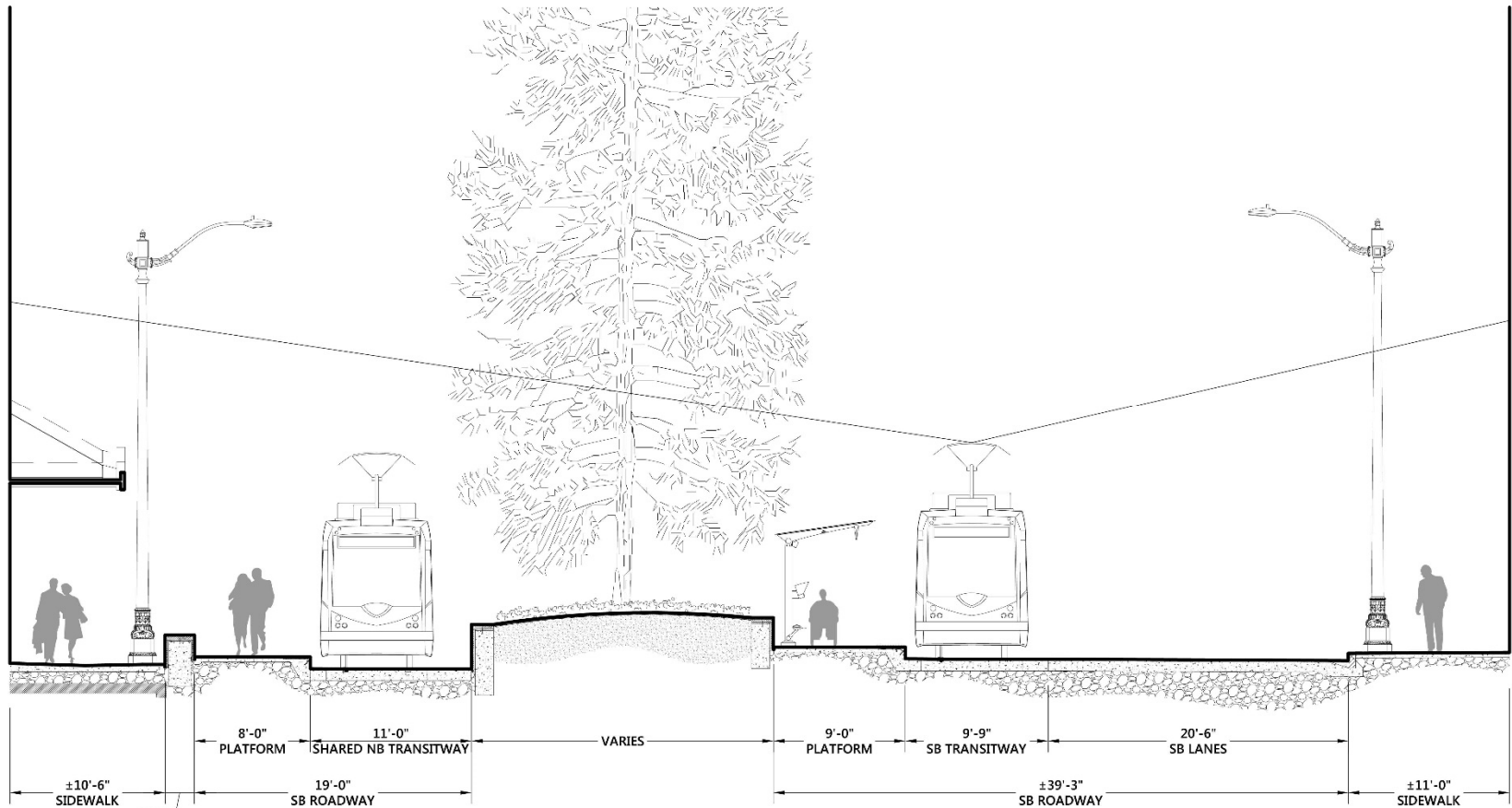
Safety

Elements

Experience

Operations

STEWART STATION – SECTION (WEST)



Stewart Rooms

Project Status

Multi-Modal

Context

Safety

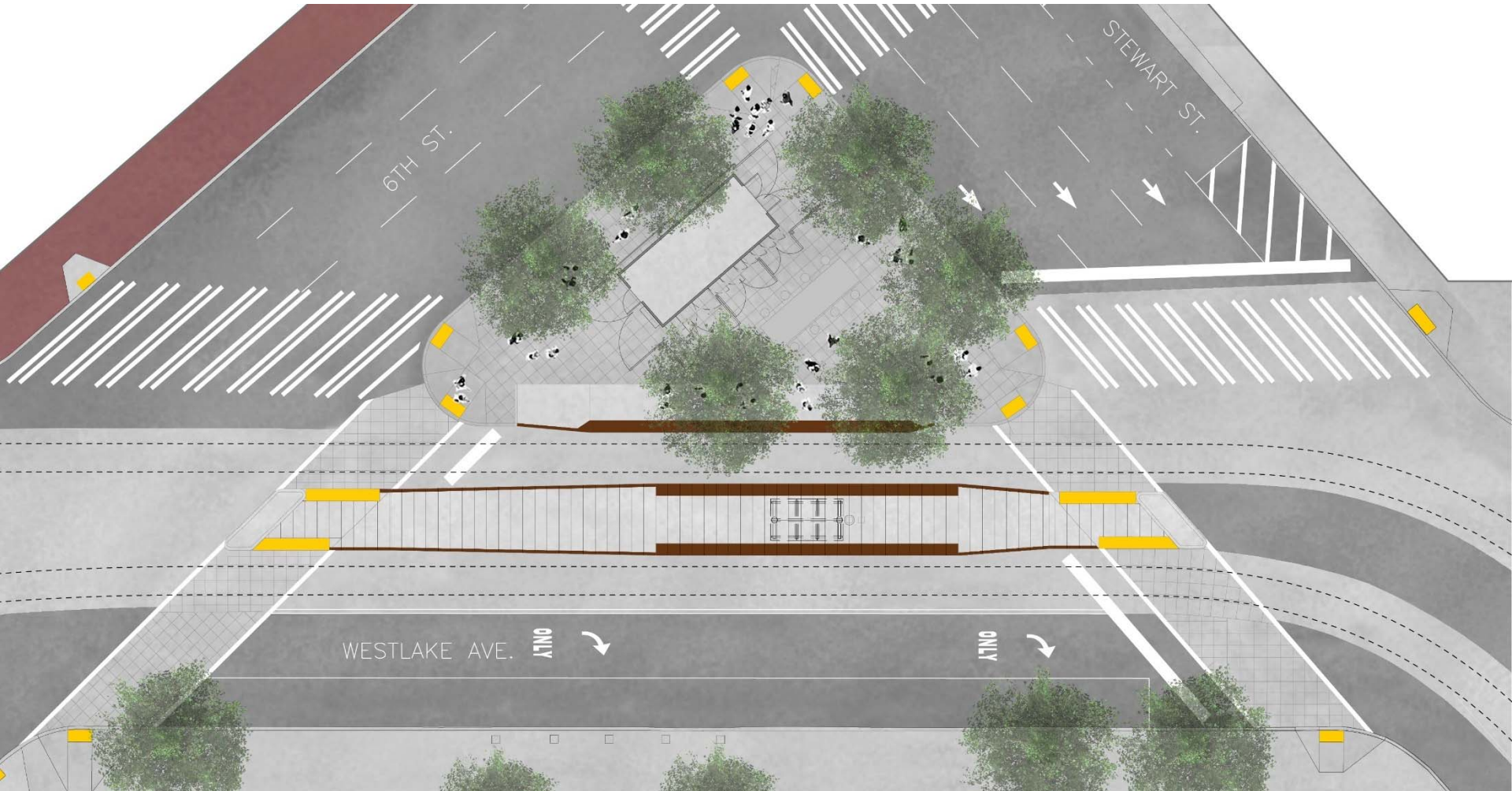
Elements

Experience

Operations



WESTLAKE STATION - SITE PLAN



Stewart Rooms

Project Status

Multi-Modal

Context

Safety

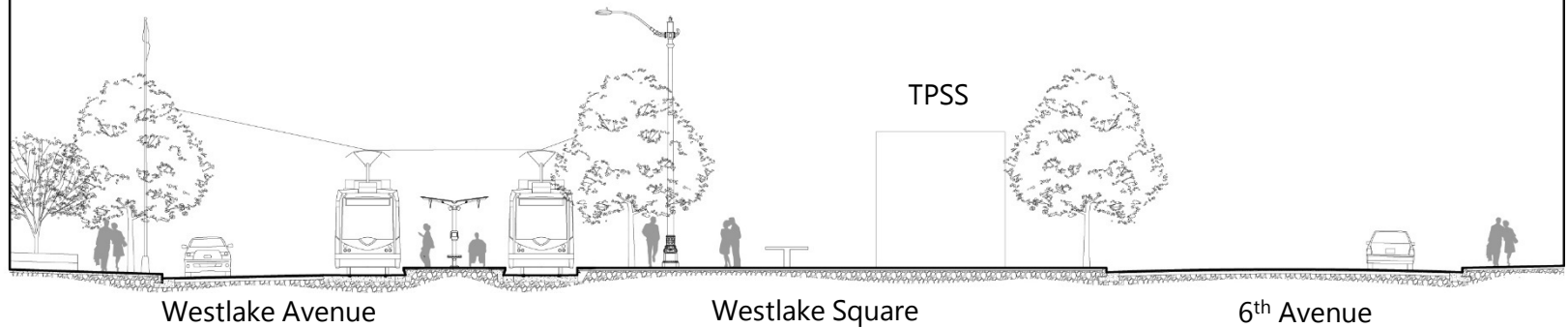
Elements

Experience

Operations

WESTLAKE STATION – SECTION (NORTH)

The Westin
Seattle



Stewart Rooms

Project Status

Multi-Modal

Context

Safety

Elements

Experience

Operations

OPERATIONAL FACILITIES

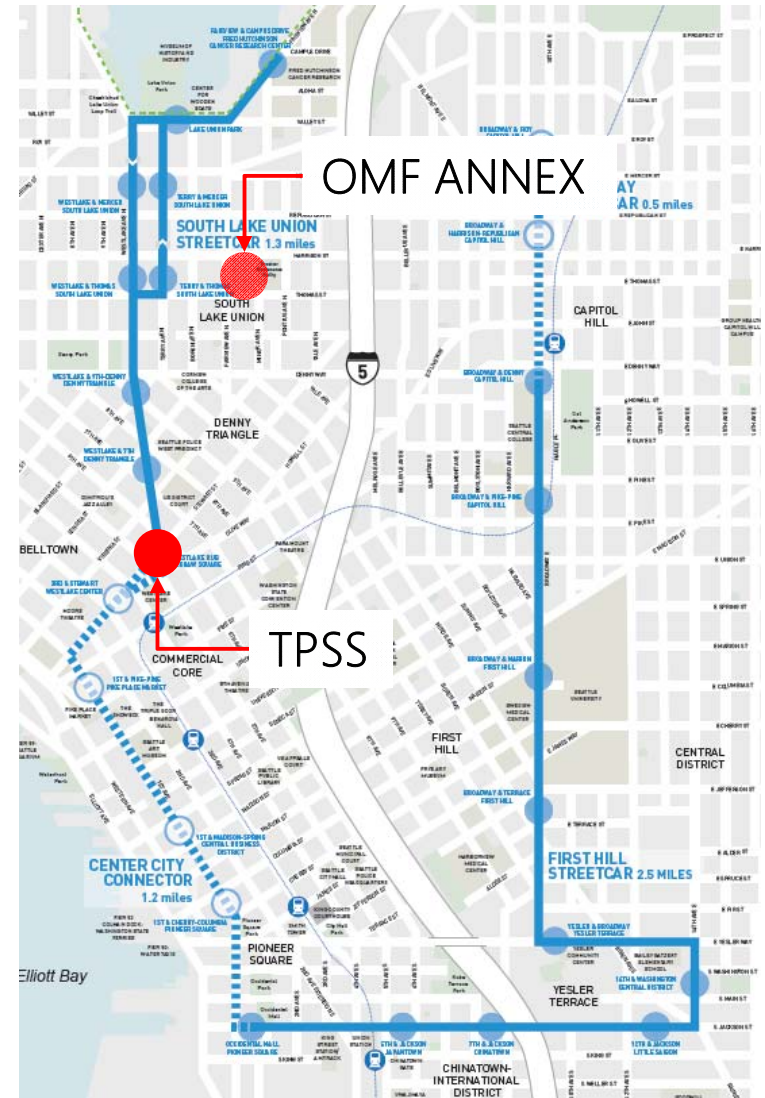
OVERVIEW

TPSS (Westlake Square)

- Load Flow Study determines most advantageous location
- Approximately 450 sqft prefabricated metal building

OMF Annex (South Lake Union)

- Complements existing Facility at Fairview and Harrison
- Provides additional employee support functions and vehicle storage
- Approximately 1,800 sf, two-story expansion



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

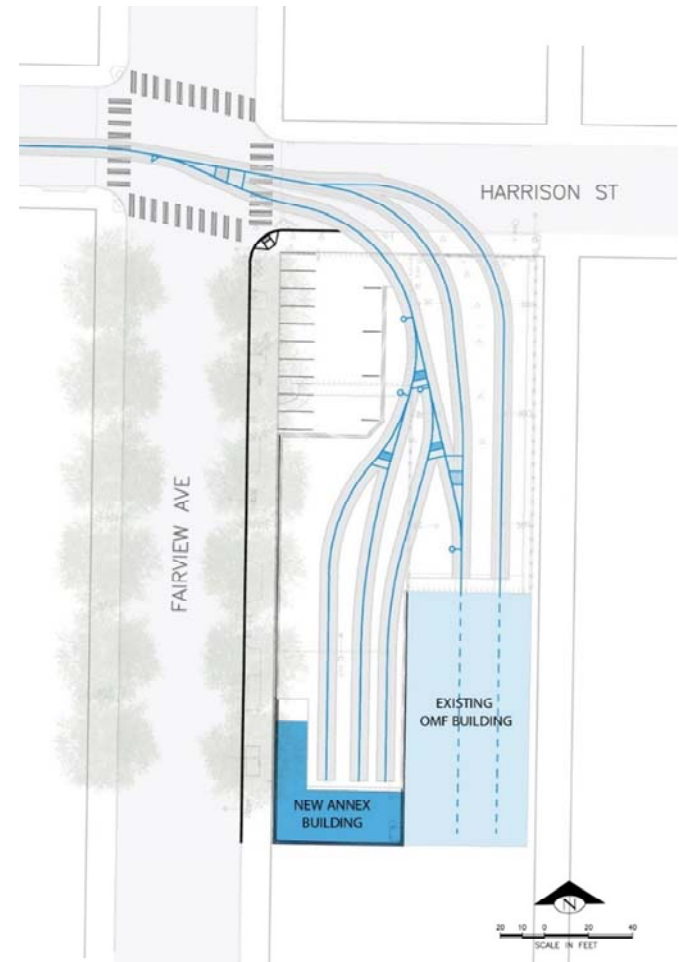
Location

Urban Design

Concepts

OPERATIONS AND MAINTENANCE FACILITY – SOUTH LAKE UNION

OMF LOCATION



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

URBAN SETTING



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

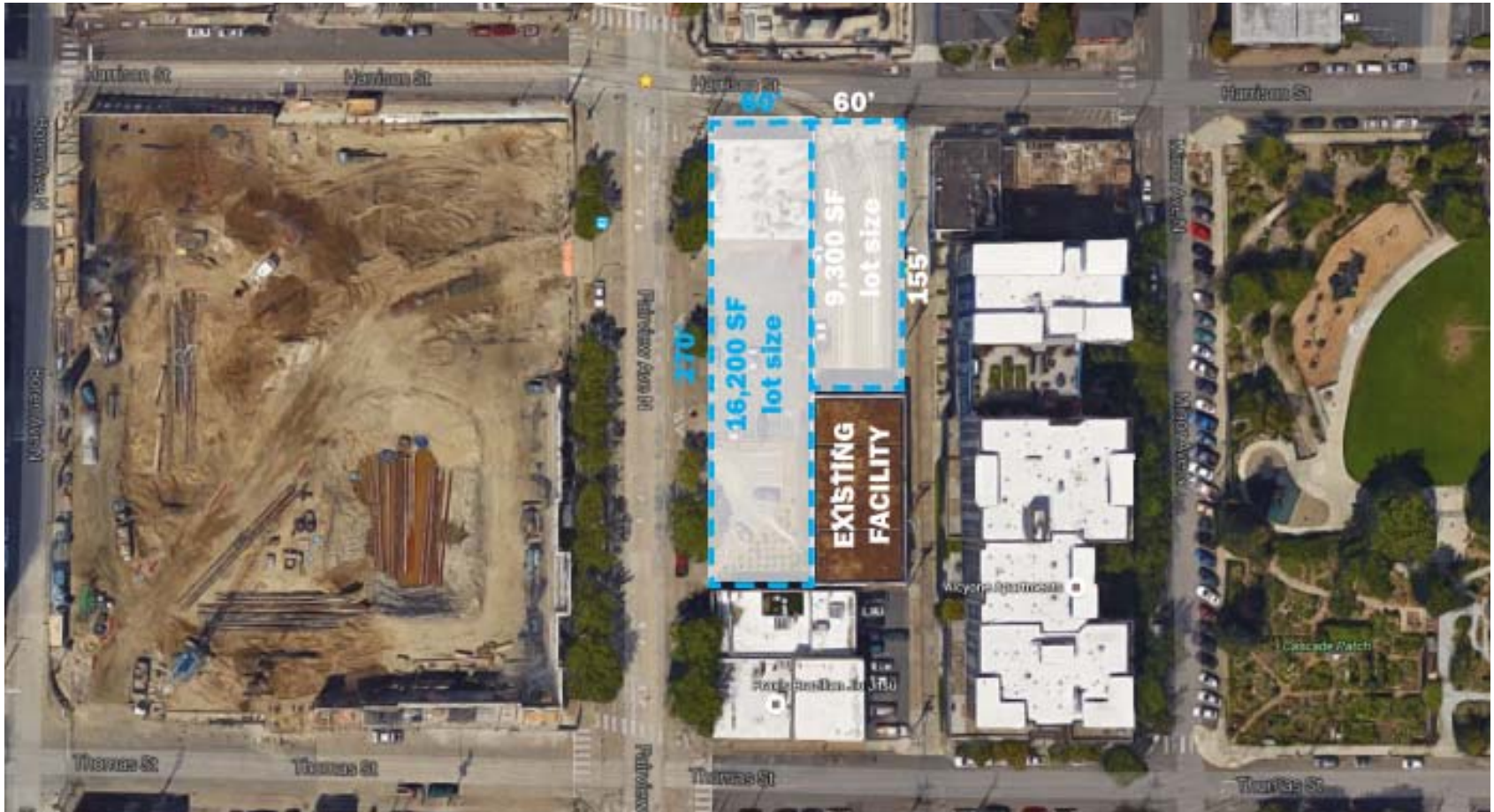
Function

Location

Urban Design

Concepts

URBAN SETTING



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

EXISTING SITE



SE corner of Harrison/Fairview



Fairview looking northeast

SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

NEIGHBORING SITES



Troy Block (completed 2017)



400 Fairview (completed 2016)

SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

PROGRAM

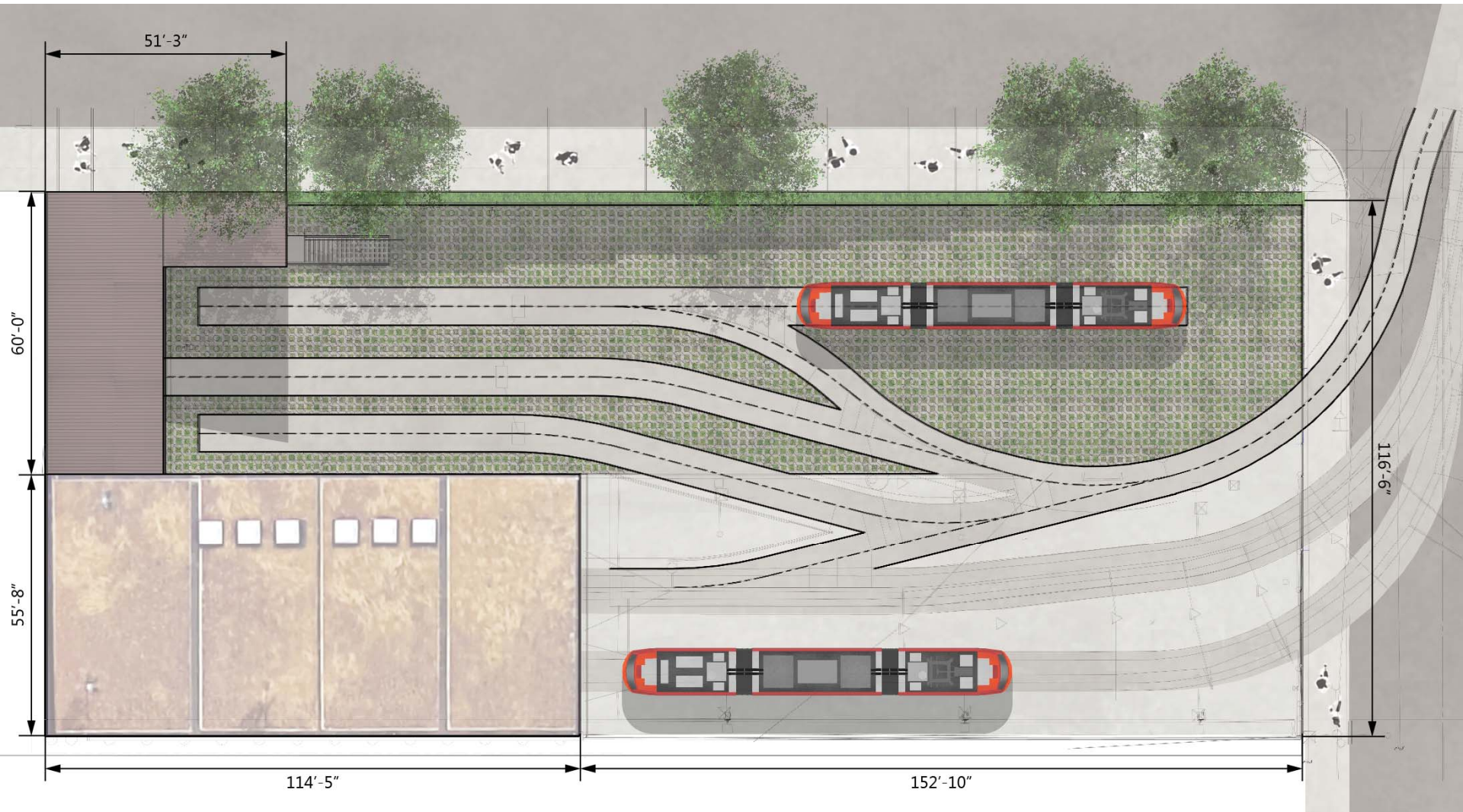
Support Spaces

- Break Room – 310 SF
- Supervisors Office – 220 SF
- Locker Room – 300 SF
- W/M Restrooms – 360 SF

Storage

- 4 Street Car Vehicles
- Open Storage Areas – 1,300 SF

CONCEPT SITE PLAN



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

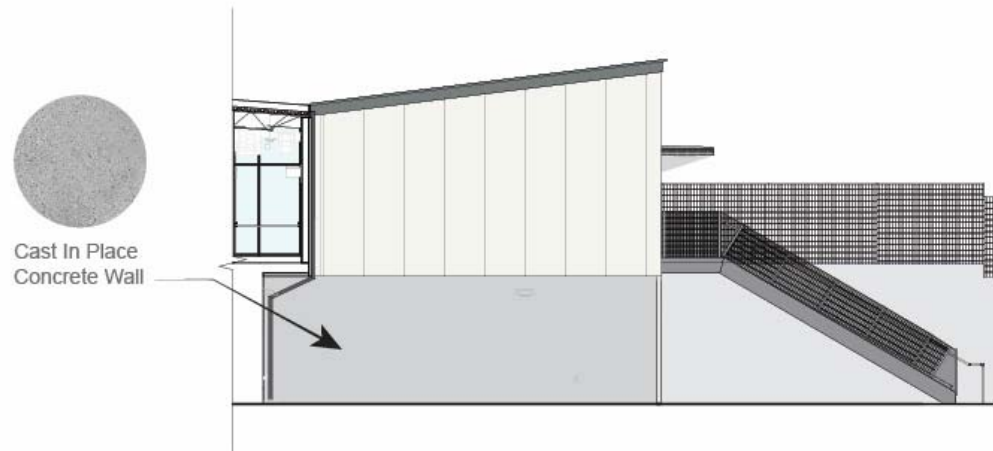
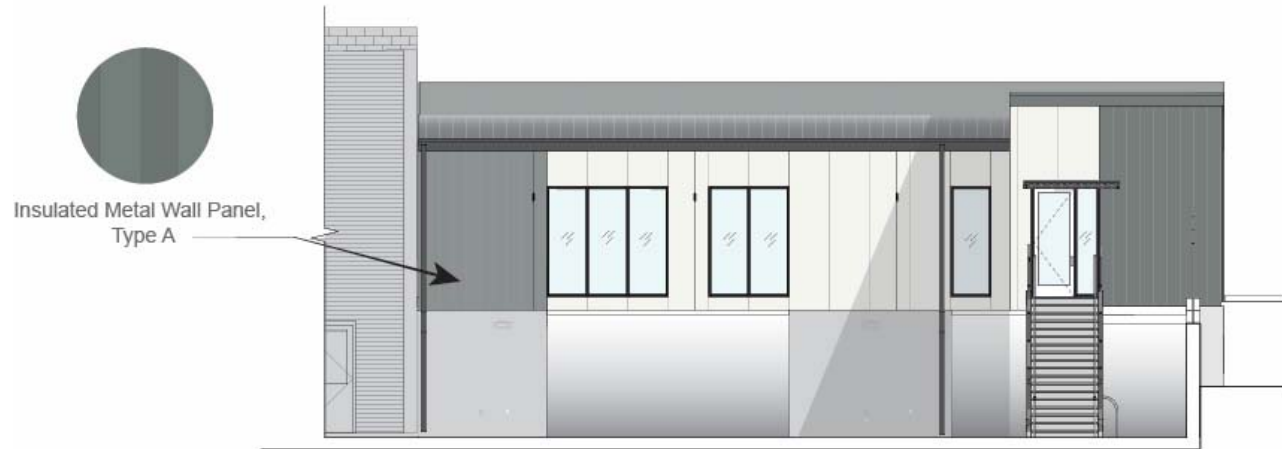
Function

Location

Urban Design

Concepts

CONCEPT ELEVATIONS



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

CONCEPT ELEVATIONS



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

CONCEPT RENDERING



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

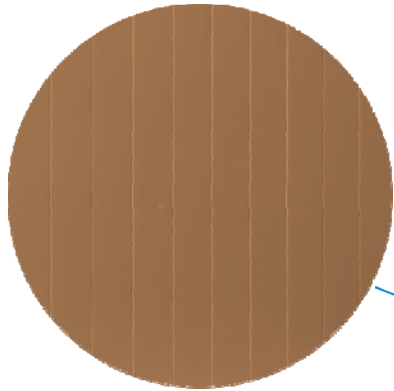
Function

Location

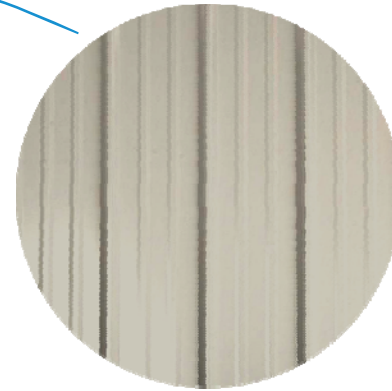
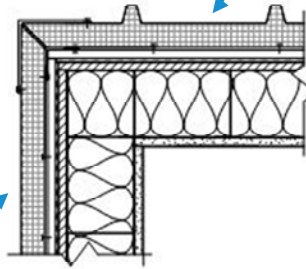
Urban Design

Concepts

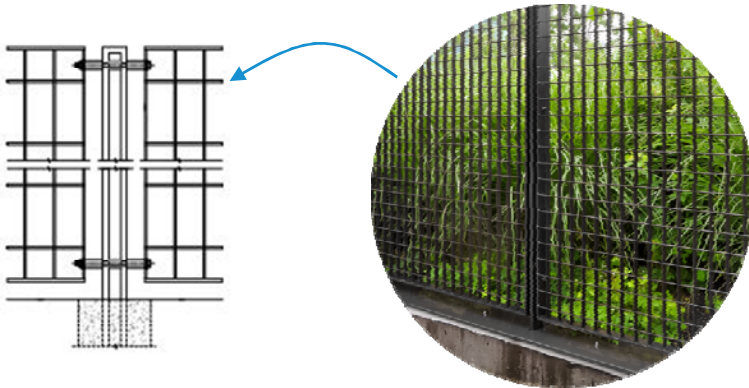
PROPOSED MATERIALS



Flat Metal Panel



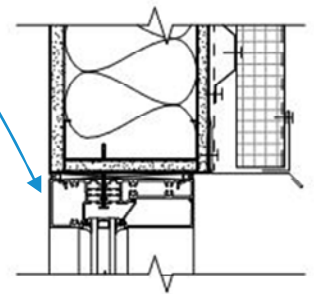
Ribbed Metal Panel



Steel Fence



Aluminum Storefront



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

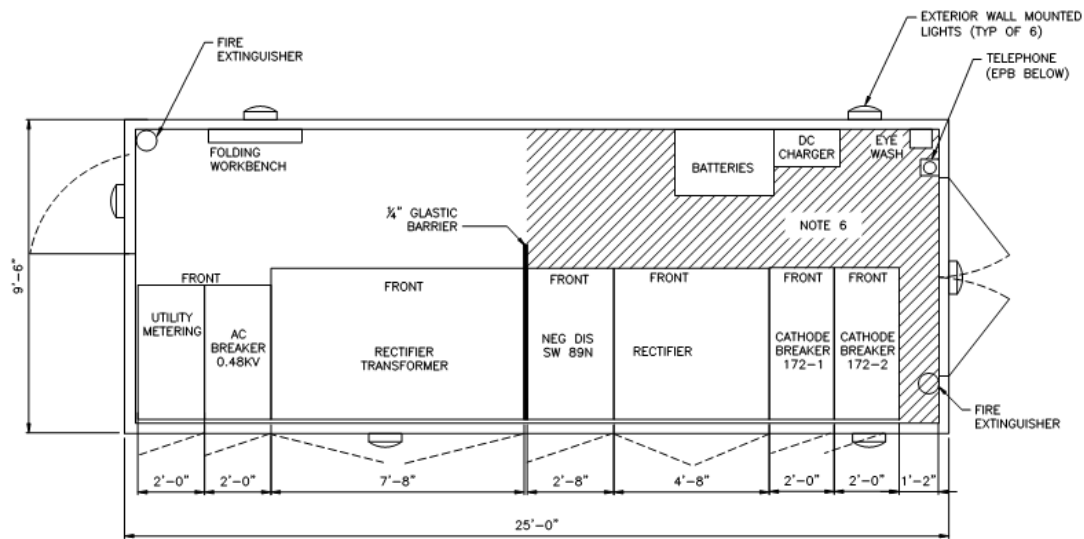
Location

Urban Design

Concepts

Traction Power Substation (TPSS)

STANDARD TPSS LAYOUT / AESTHETIC



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

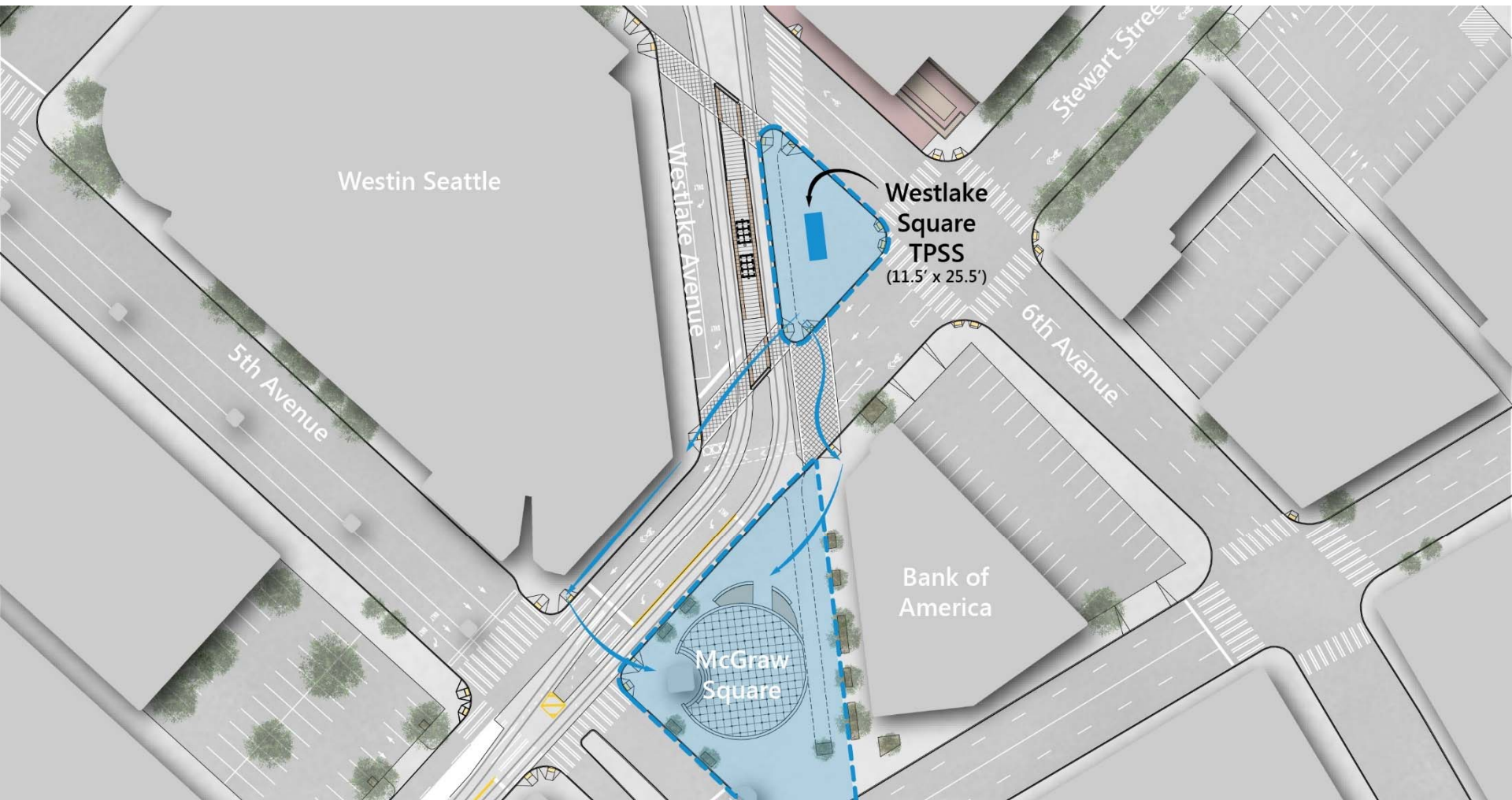
Urban Design

Concepts

TPSS SUBTERRANEAN OPTION ANALYSIS

- Currently studying McGraw Square for underground TPSS
 - TPSS and SCL Transformer vault sited together underground
- Constraints
 - Space requirements
 - Circulation space around equipment for maintenance and service
 - Grounding grid
 - Construction requirements
 - Excavation
 - Rigging
 - Special building requirements
 - Fire suppression systems
 - HVAC systems
 - Moisture and dewatering
 - Gas ventilation
 - Cost

WESTLAKE SQUARE - AREA PLAN



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

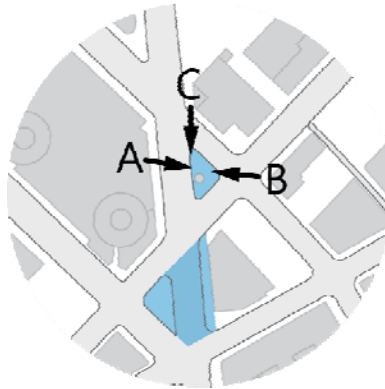
Function

Location

Urban Design

Concepts

WESTLAKE SQUARE - EXISTING



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

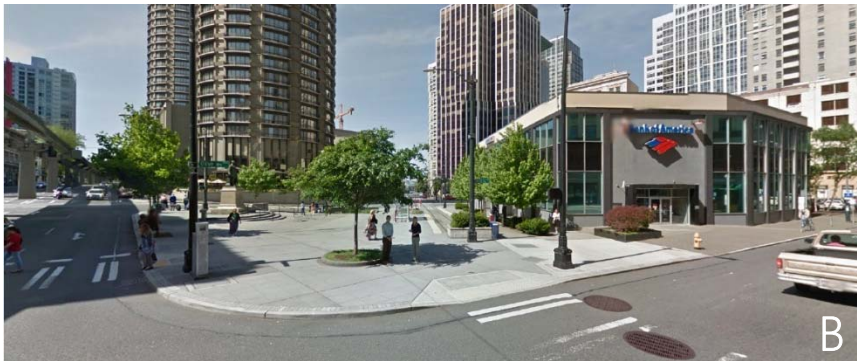
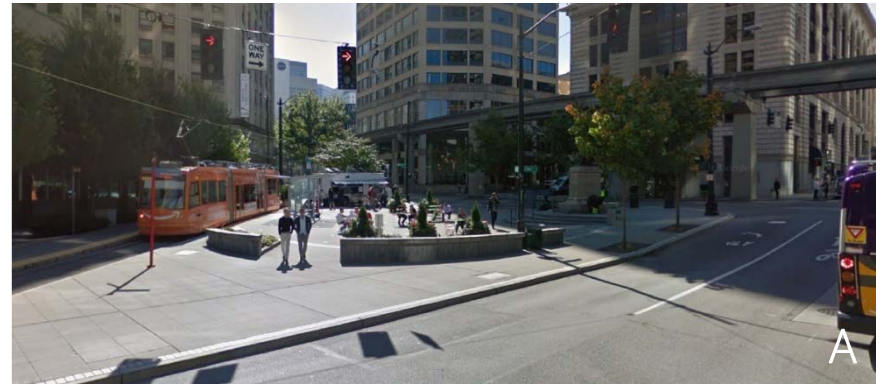
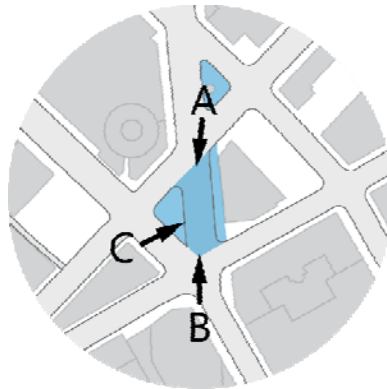
Location

Urban Design

Concepts

100

WESTLAKE SQUARE - EXISTING



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

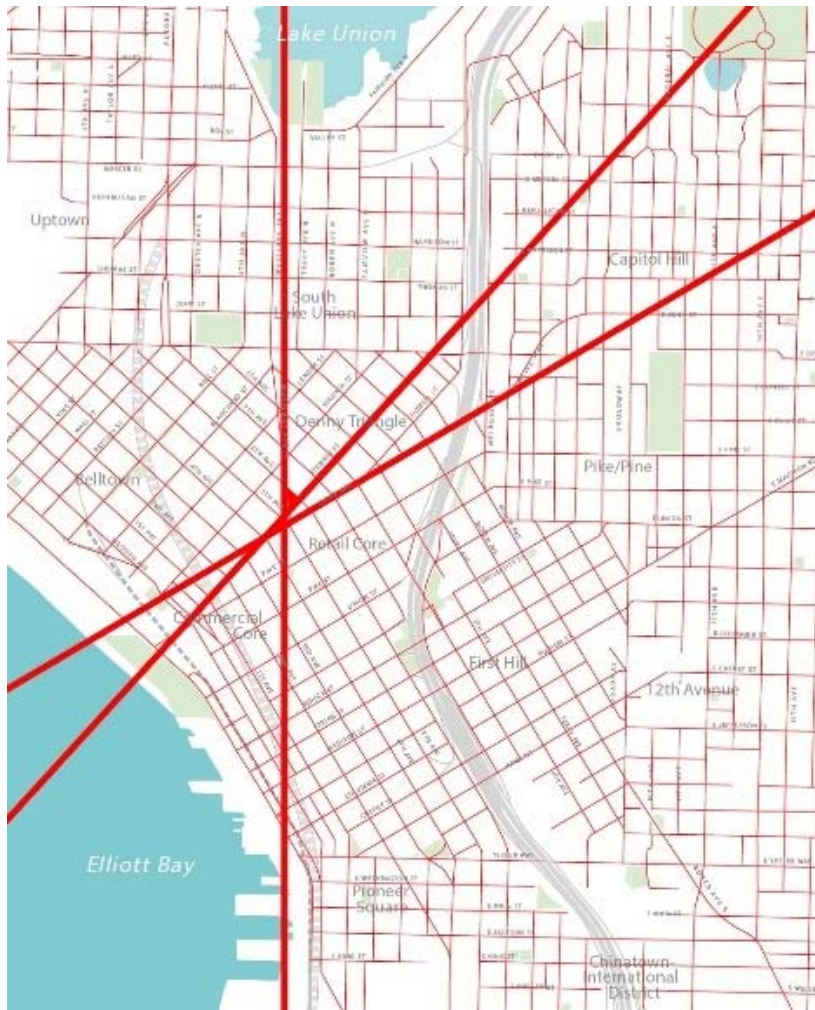
Location

Urban Design

Concepts

101

URBAN DESIGN ANALYSIS



- Overlapping grids create a series of void spaces throughout the neighborhood
- Westlake Square is the anchor point of Seattle's three dominant street grids
- Opportunity to activate leftover streetscape

SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

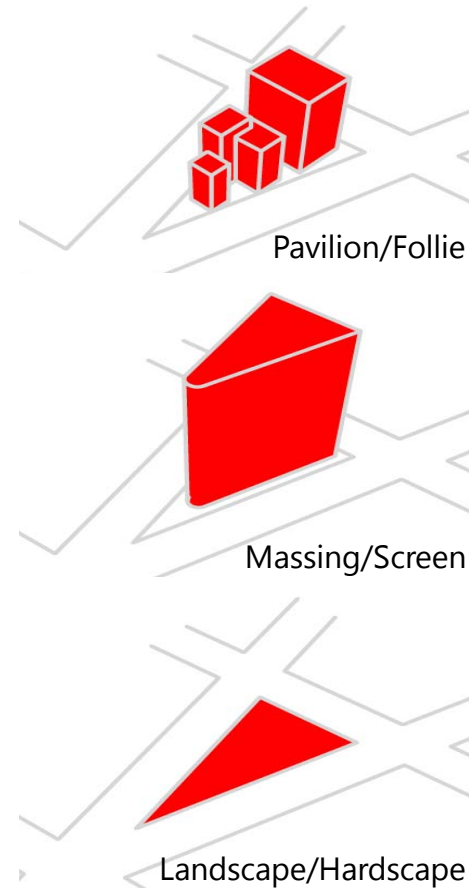
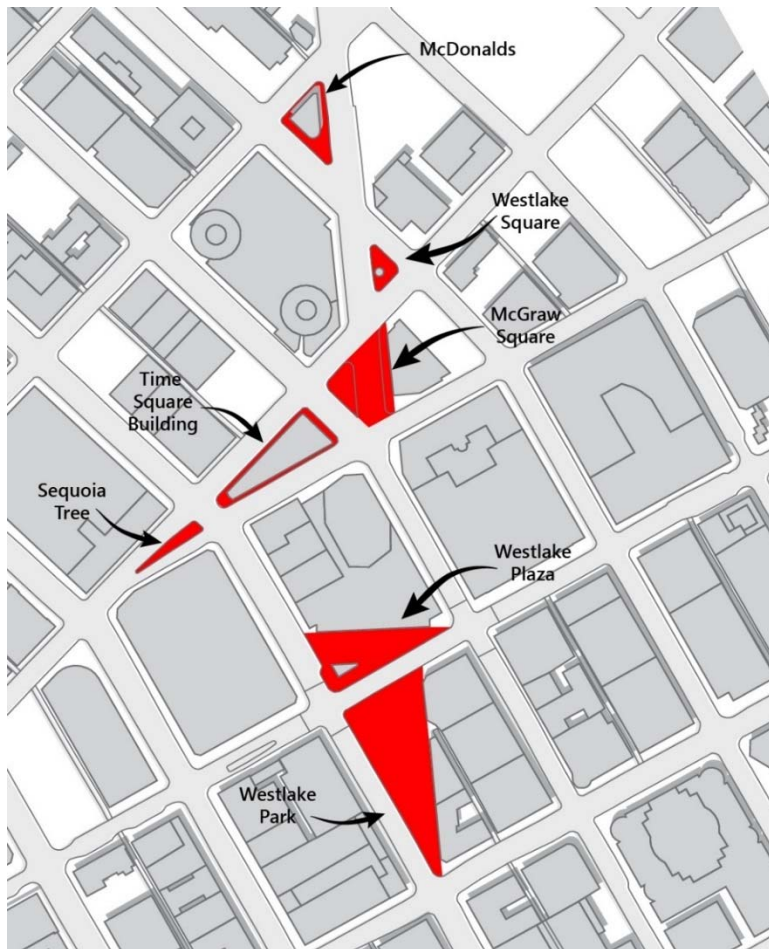
Location

Urban Design

Concepts

102

URBAN DESIGN ANALYSIS



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

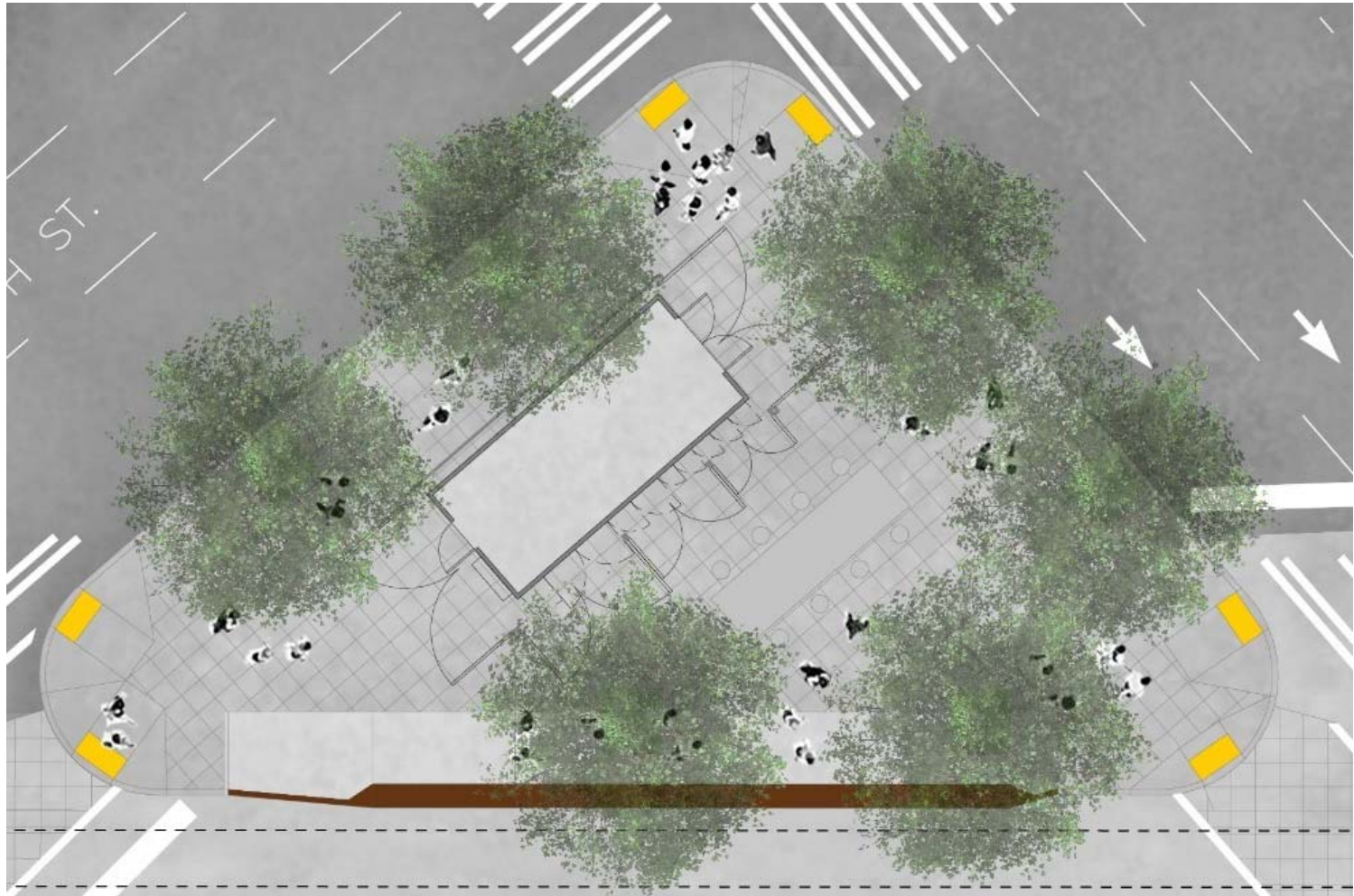
Function

Location

Urban Design

Concepts

WESTLAKE SQUARE - SITE PLAN



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

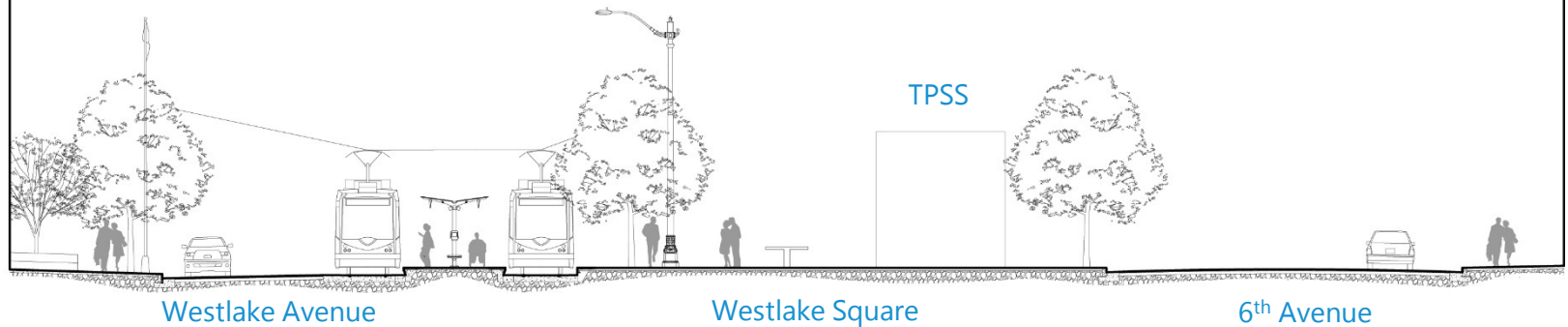
Location

Urban Design

Concepts

WESTLAKE SQUARE - SITE SECTION

The Westin
Seattle



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

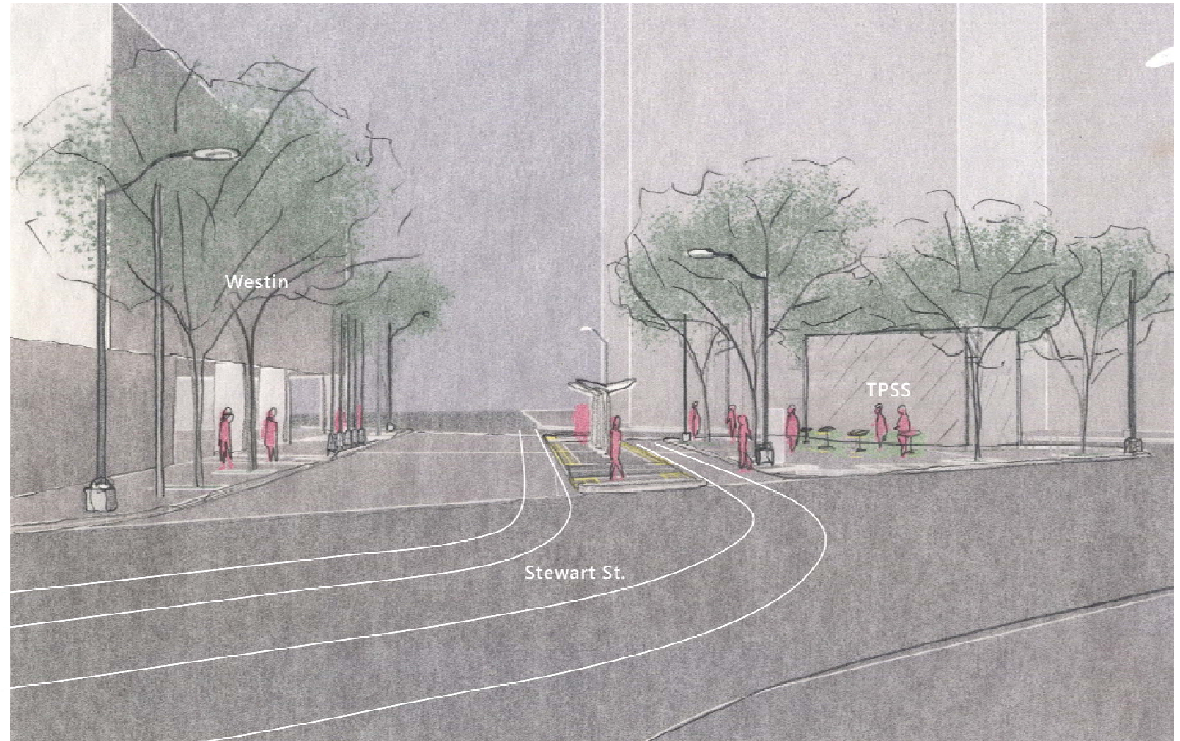
Urban Design

Concepts

ENCLOSURE CONCEPTS



Glowing architectural box



- Adding a little height to TPSS enclosure is a more comfortable proportion
- Soft glowing light adds warmth (Seattle morning & evening commute is in dusk/night for much of the year)

SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

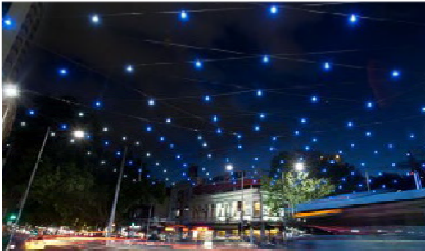
Function

Location

Urban Design

Concepts

ENCLOSURE CONCEPTS



Catenary lighting across street & plaza



Graphic application on glass or polycarbonate



- Screening or graphic clings by artists can be integrated into lower portion of lightbox
- Cables can be strung across the square using existing and proposed poles
- This - along with the continuous ground plane - unifies the entire square and marks the high pedestrian zone with a mix of transit uses

SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

107

ENCLOSURE CONCEPTS



Light and reflective materials - perforated metal (above) and wood slats (below)



- Formal expression of enclosure creates an object in the plaza
- Light and reflective materials add warmth to streetscape and station stop



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

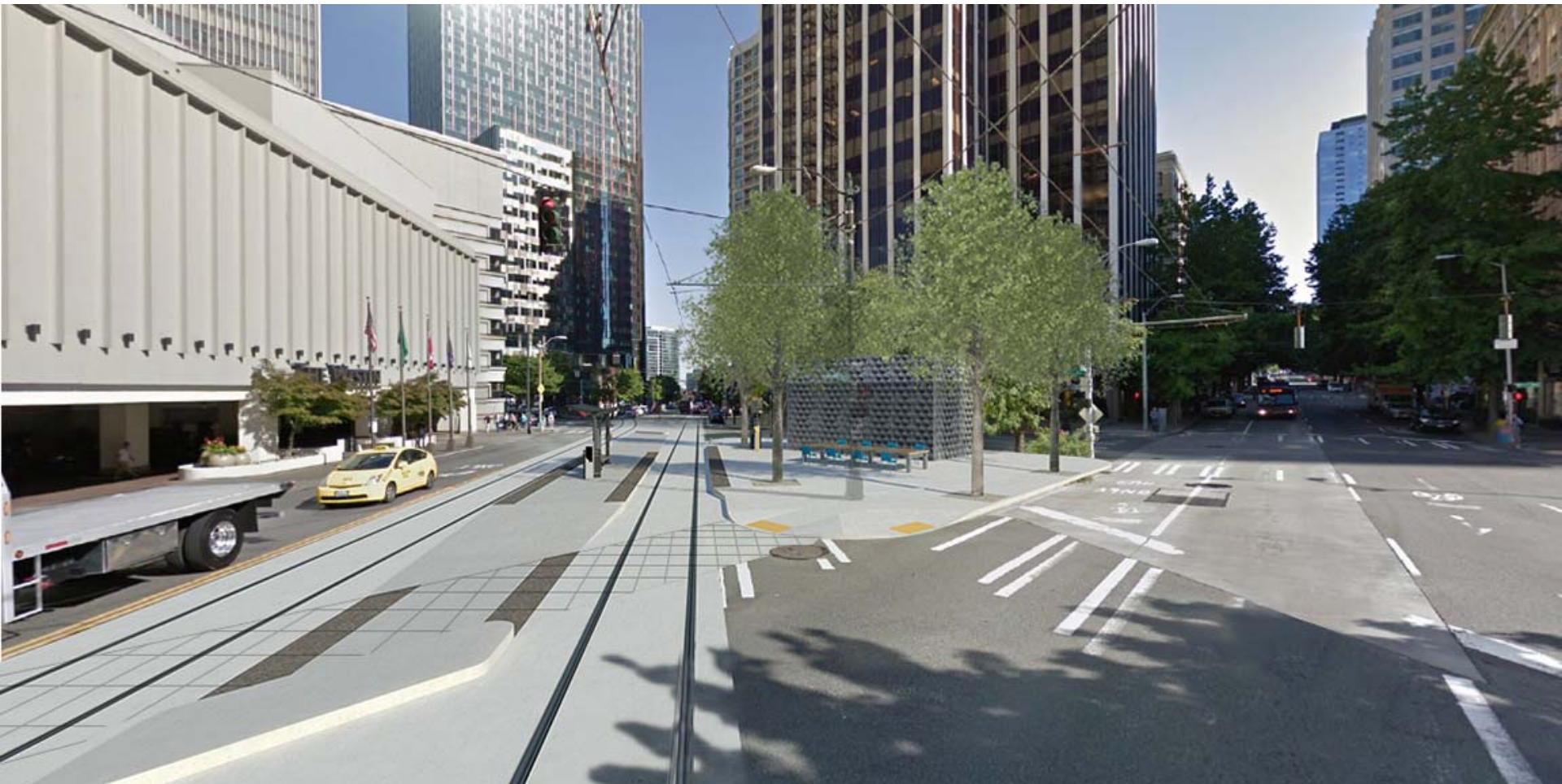
Function

Location

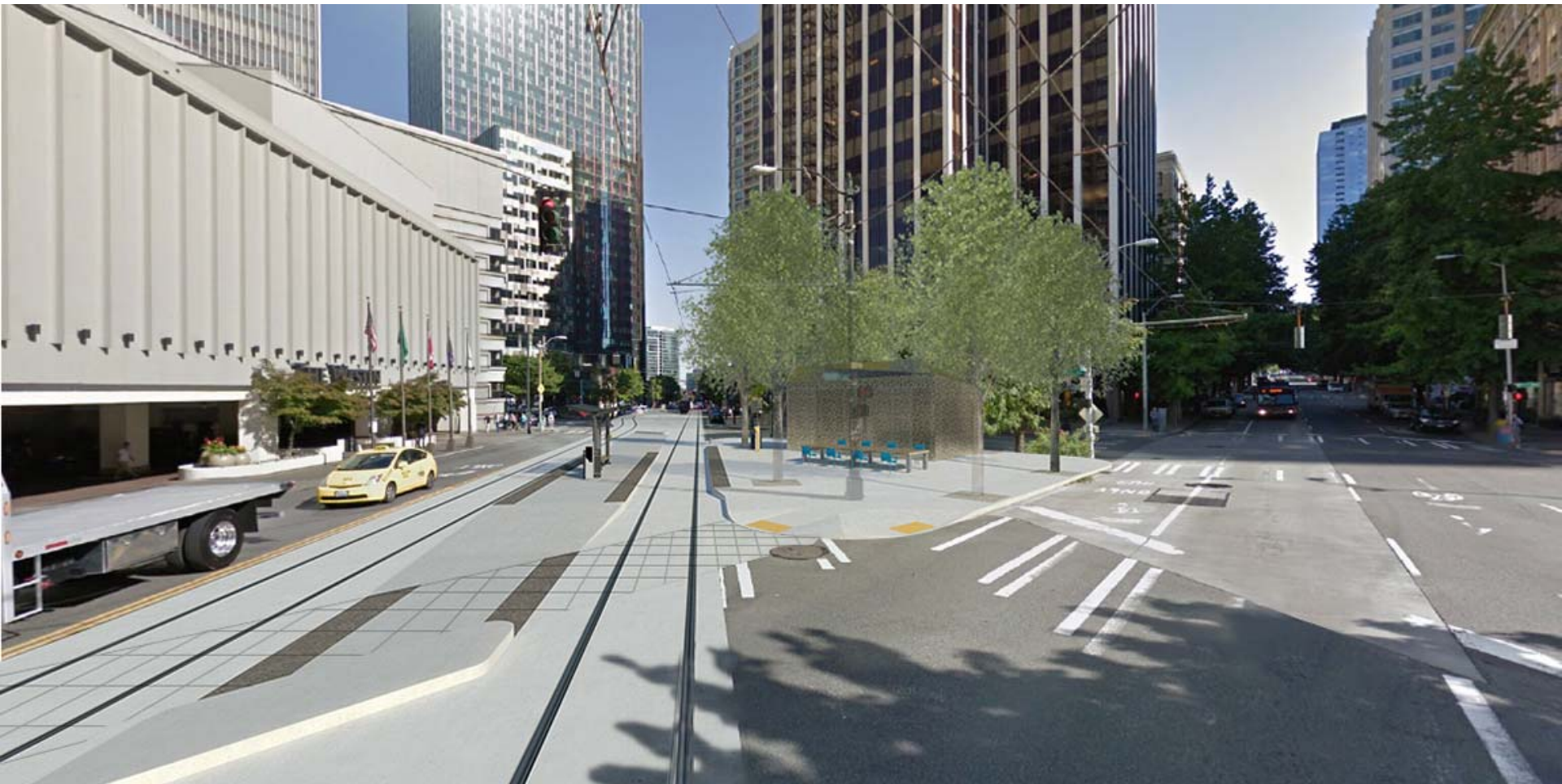
Urban Design

Concepts

"SCREEN" CONCEPT



"FOLD" CONCEPT



SLU OMF Annex

TPSS

Overview

Location

Program

Concepts

Function

Location

Urban Design

Concepts

110

OVERHEAD CATENARY SYSTEM

OVERHEAD CATENARY SYSTEM (OCS)



Final Design

OVERHEAD CATENARY SYSTEM (OCS)

Pole



Eyebolt



Final Design

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations

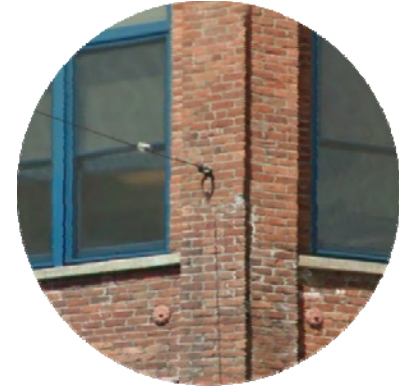
EXISTING EYEBOLT INSTALLATIONS



77-85 South Main Street



The New England Building



The New England Building



Sportscaster Building



Scheuerman Block



5-Star Parking Structure
(1st Avenue)

Final Design

Project Status

Project Vision

Context

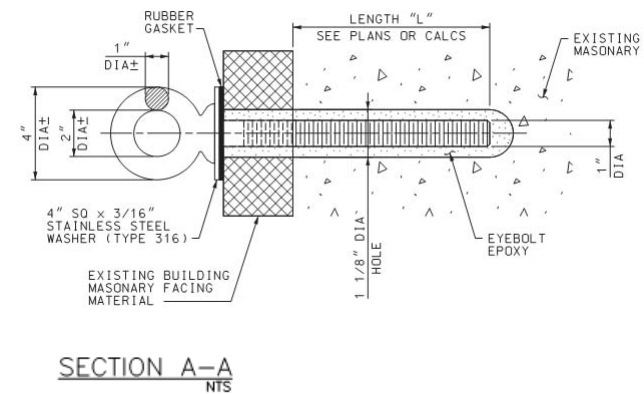
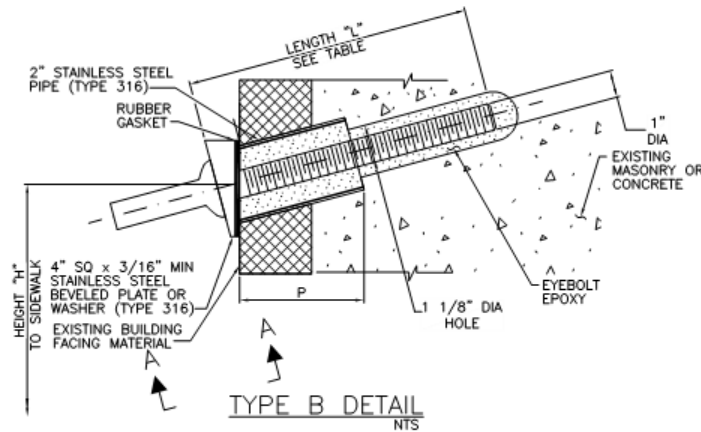
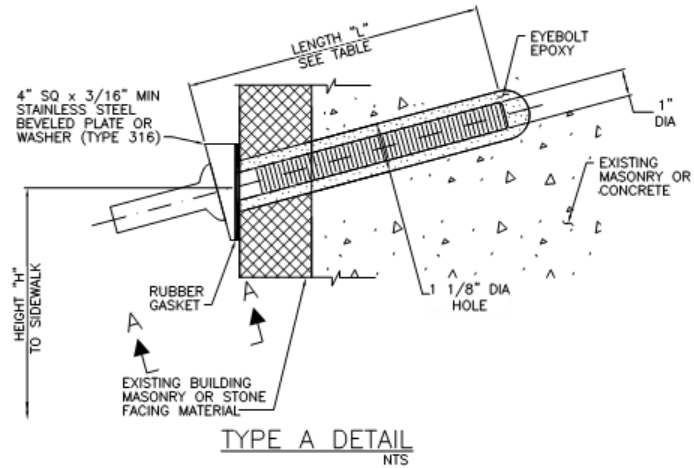
Safety

Elements

Experience

Operations

EYEBOLT INSTALLATION DETAILS



Final Design

PUBLIC ART INTEGRATION



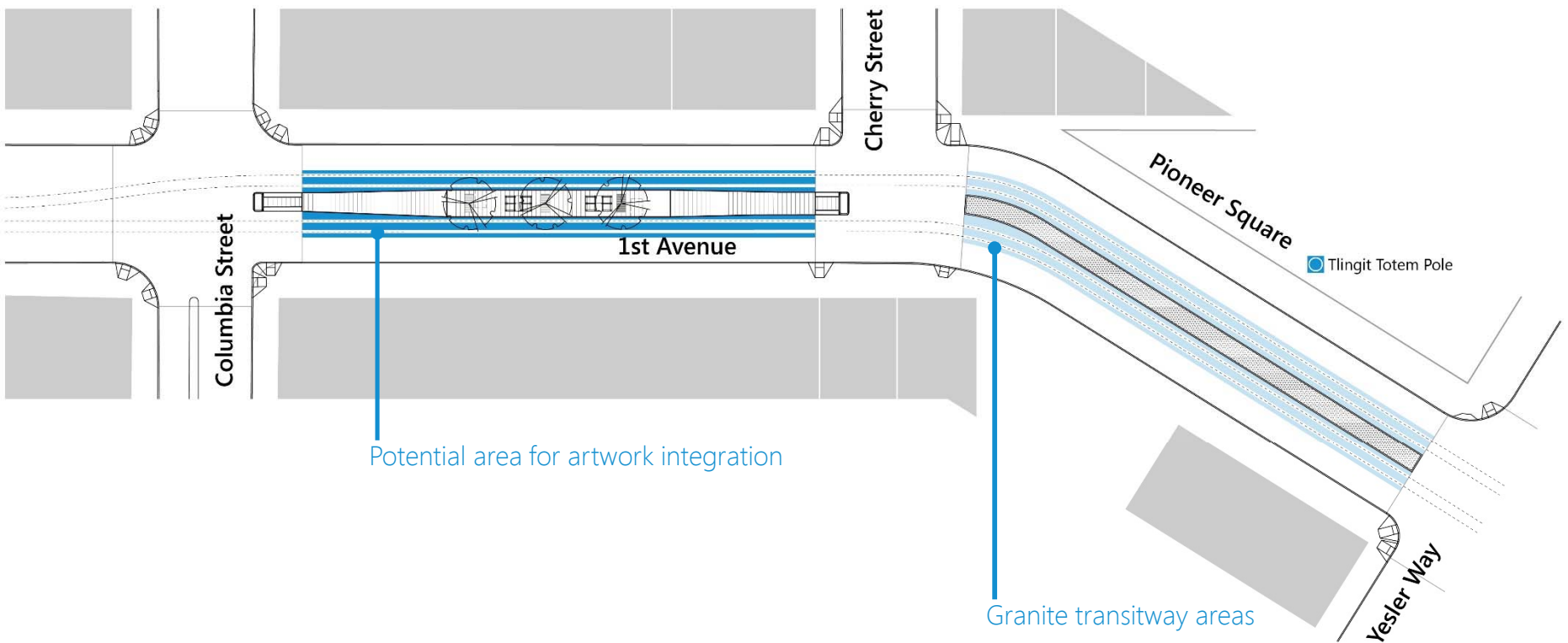
Mamiko Otsubo

Reclaimed Steel Interventions

- Simulated cobblestone elements cast in steel reclaimed from abandoned rail embedded into granite transitway in Pioneer Square
- Molds to be made of same cobbles
- Number and locations of embedded art elements are flexible
- Current considered locations
 - Around station platform
 - Within transitway

Final Design

PUBLIC ART INTEGRATION



Final Design

Project Status

Project Vision

Context

Safety

Elements

Experience

Operations

CENTER CITY CONNECTOR



Next Steps / Questions