

Seattle Design Commission: Schematic Design Update

March 16, 2017

Scott Kubly, CJ Holt, Michael James, Tess Schiavone, Roland Genick



AGENDA

Project Status

Multi-Modal System

Schematic Design (60%)

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

Operational Facilities

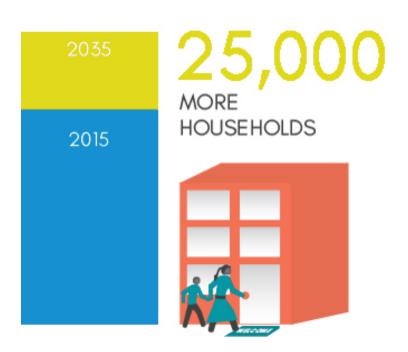
Questions

FEEDBACK

- 1. Integration with transit modes / related downtown masterplans
- 2. Lessons learned from SLU / First Hill
- 3. Pedestrian movement of users through corridor
- 4. Integration with downtown arts masterplan
- 5. Consideration of passenger volumes on design
- 6. Pedestrian safety / mid-block crossings / jaywalking
 - 7. Bicycle safety measures 1st/Jackson, 1st/Stewart, Westlake
- 8. Evaluate need for seating and seating alternatives
- 9. Sustainability material sourcing
- Provide visual cues to identify station locations (signage, shelter, etc.)
 - Consider operating plans for station placement and design

PROJECT STATUS

PURPOSE AND NEED





Schematic Design

Project Status Multi-Modal Context Safety Elements Experience Operations

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...

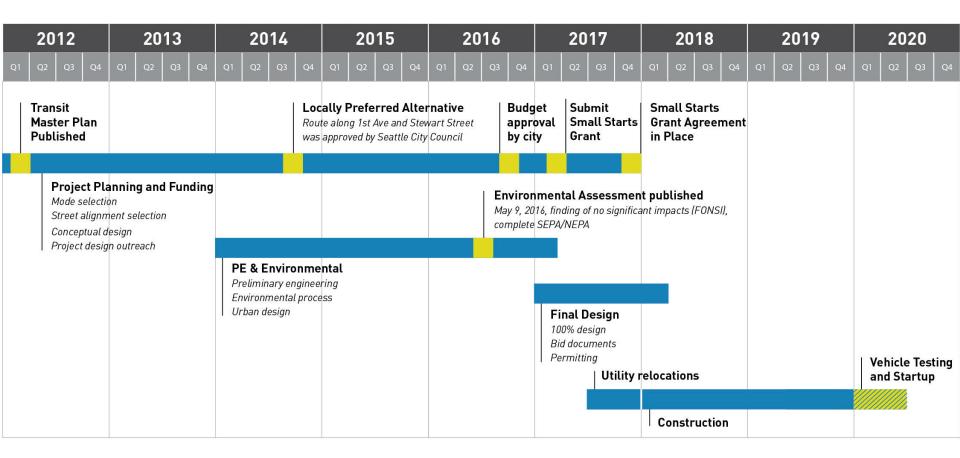
- Exclusive transit lane on 1st Ave
- Estimated 10-minute travel time from Westlake to Occidental
- Arrivals up to every 5 minutes between South Lake Union and Chinatown-International District



Schematic Design

Project Status Multi-Modal Context Safety Elements Experience

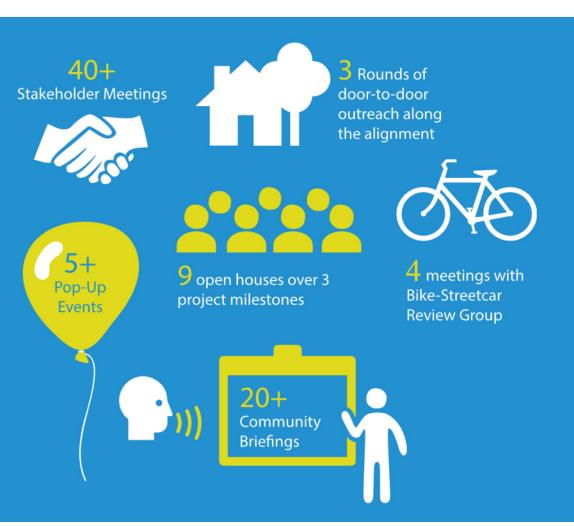
PROJECT SCHEDULE



Schematic Design _____

Project Status Multi-Modal Context Safety Elements Experience Operations

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

Schematic Design _____

Project Status Multi-Mo

(

text

Elements

Experience

Operations

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

______ Schematic Design _____

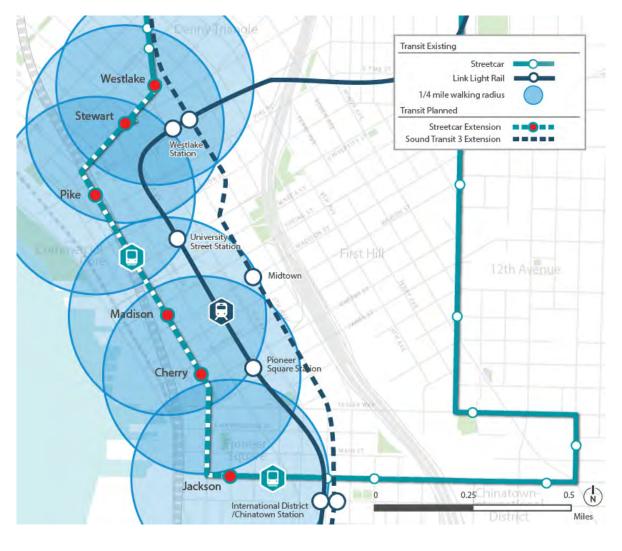
MULTIMODAL SYSTEM

STREETCAR RIDERSHIP (2035)



Project Status Multi-Modal Context Safety Elements Experience Operations

STREETCAR + RAIL



Schematic Design

12

Project Status Multi-Modal Context Safety Elements Experience Operations

STREETCAR + RAPID RIDE



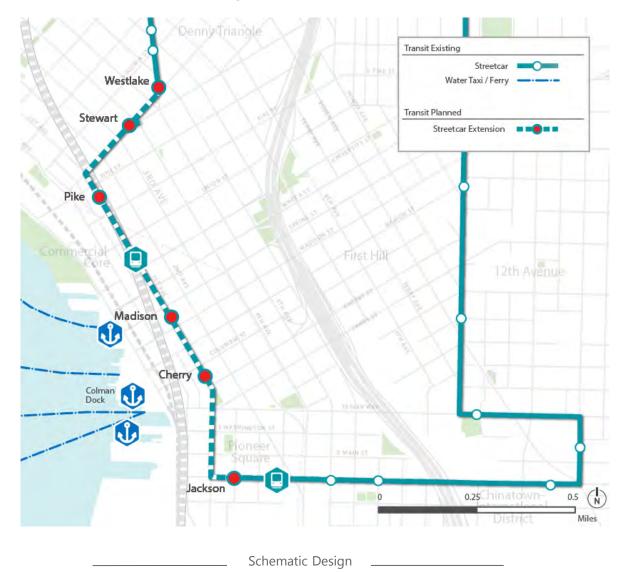
Project Status Multi-Modal Context Safety Elements Experience Operations

STREETCAR + REGIONAL BUS



Project Status Multi-Modal Context Safety Elements Experience Operations

STREETCAR + FERRY / WATER TAXI



Project Status Multi-Modal Context Safety Elements Experience Operations

STREETCAR + BICYCLES



Project Status Multi-Modal Context Safety Elements Experience Operations

PEDESTRIAN NETWORK



Project Status Multi Model Contact Cafety Flaments Experience Operations

STREETCAR + ALL MODES



18

Schematic Design _____

Project Status Multi-Modal Context Safety Elements Experience Operations

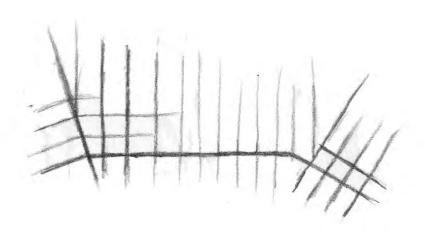
SCHEMATIC DESIGN (60%)

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

Schematic Design

roject Status Multi-Mo

Conte

Safety

Elements

Experience

Operations

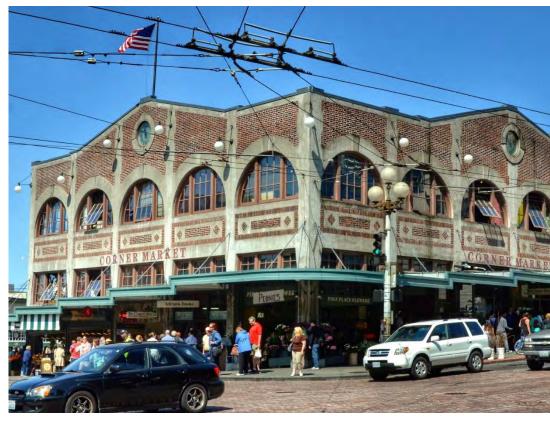
ACTIVATING & CONNECTING



Project Status Multi-Modal Context Safety Elements Experience Operations

QUIET INTEGRATION – UNIQUE CHARACTER





Schematic Design

SLIM, MINIMAL, LOW, OPEN

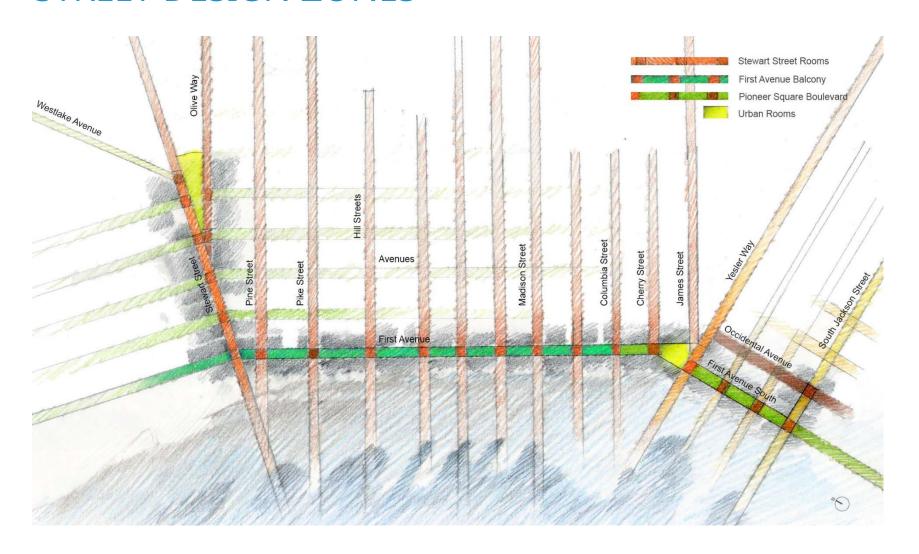




Schematic Design

roject Status Multi-Mod

STREET DESIGN ZONES



Schematic Design

Project Status Multi-Modal Context Safety Elements Experience Operations

KEY DESIGN CONSIDERATIONS

CONTEXT

- Quiet Integration
- Give priority to architecture and neighborhood character

PED AND BICYCLE SAFETY

- Pedestrian
 Prioritization
- Bicycle Protection
- Level of Service

DESIGN ELEMENTS

- Transitway Materials
- Station Platform Materials
- Shelters and Protection
- Station Furniture

USER EXPERIENCE

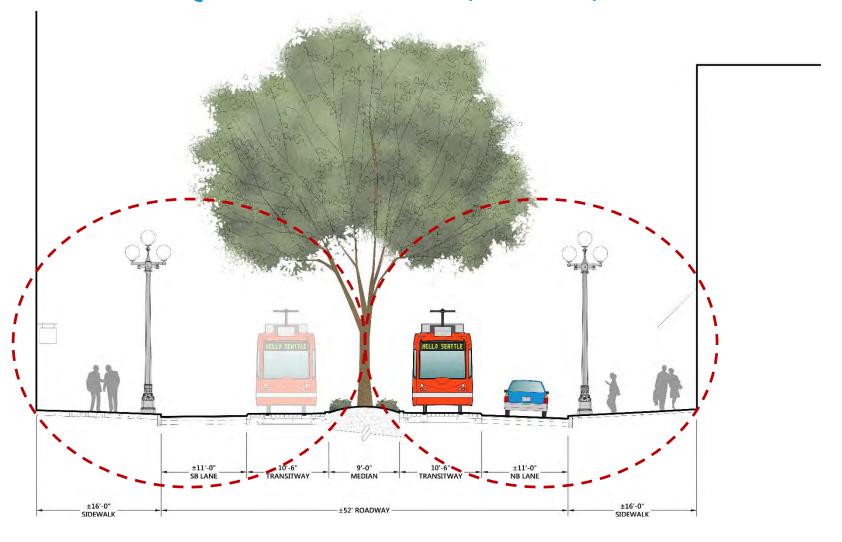
- Station Organization
- Comfort
- Wayfinding
- Accessibility

Schematic Design

oject Status Multi-Mod

PIONEER SQUARE BOULEVARD CONTEXT

PIONEER SQUARE SECTION (SOUTH)



Pioneer Square

Project Status | Multi-Modal | Context | Safety | Elements | Experience | Operations





PIONEER SQUARE BOULEVARD SAFETY

CARING FOR PEOPLE





Pioneer Square

Project Status

Multi-Modal

Contex

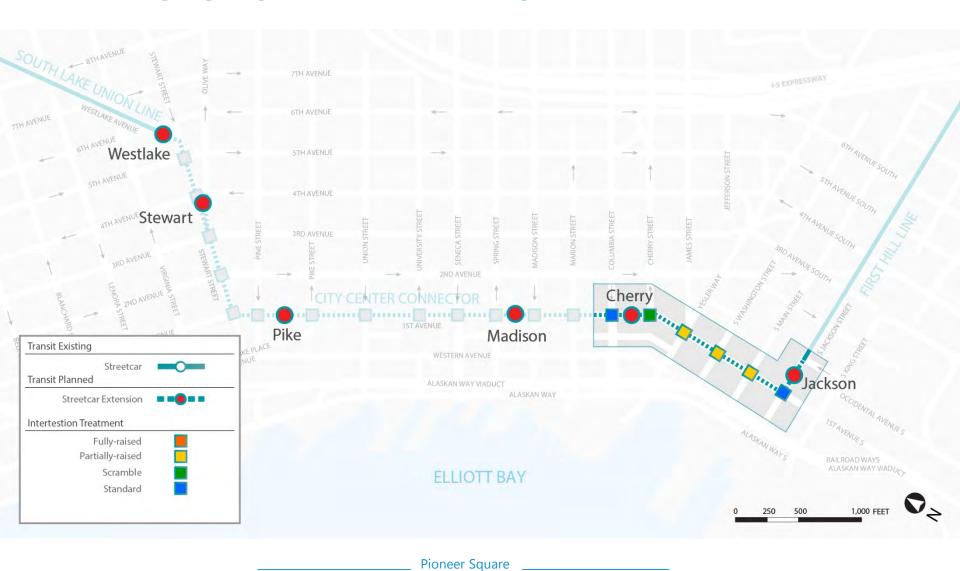
Safety

Elements

Experience

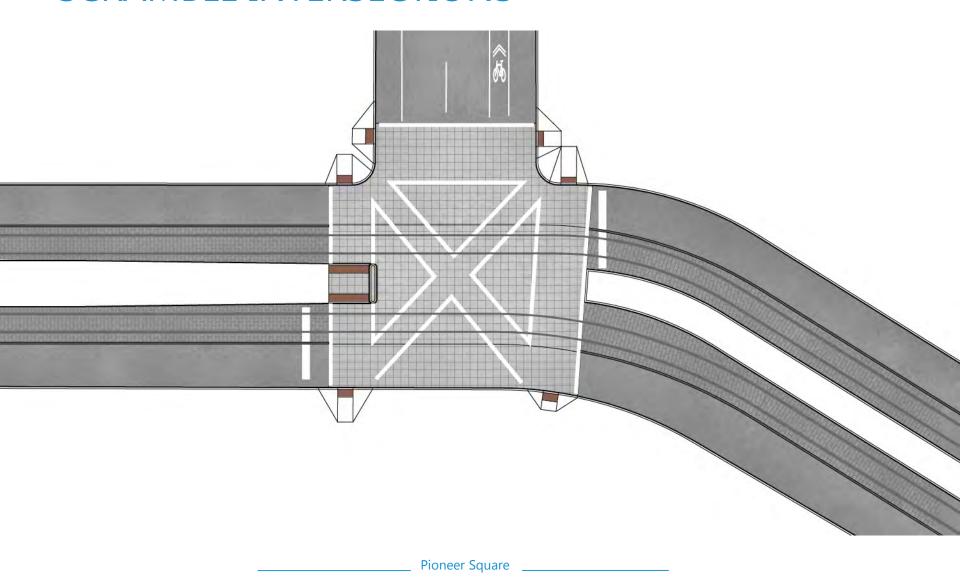
Operations

INTERSECTION TREATMENTS



Project Status Multi-Modal Context Safety Elements Experience Operations

SCRAMBLE INTERSECTIONS



Project Status

Multi-Modal

Context

Safety

Elements

Experience

Operations

SCRAMBLE INTERSECTIONS





Pioneer Square

Project Status

Multi-Modal

Contex

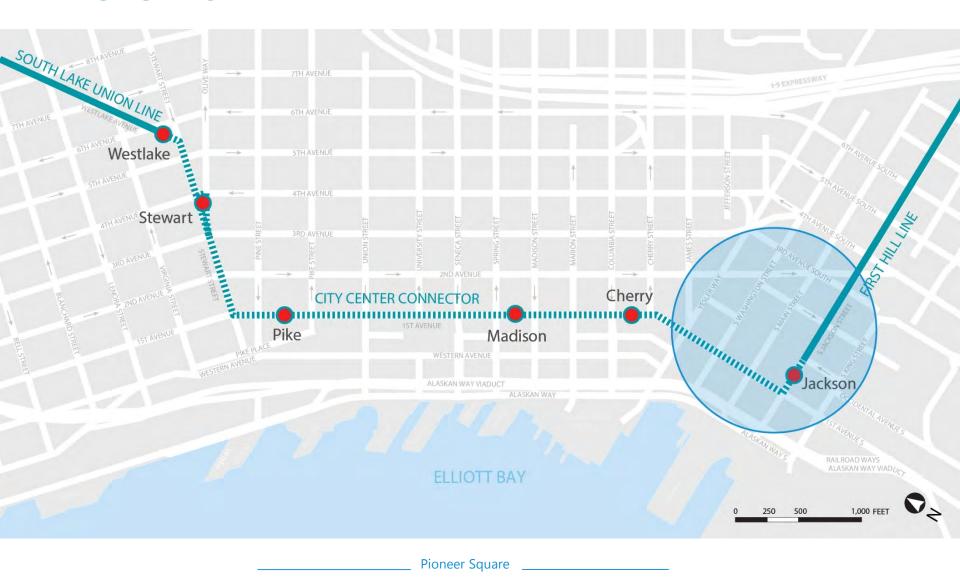
Safety

Elements

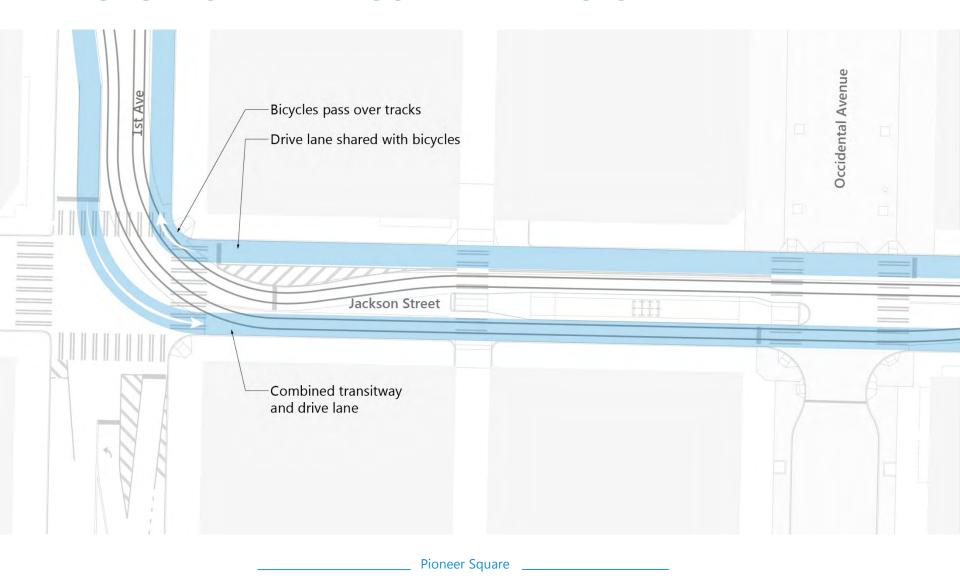
Experience

Operations

BICYCLE SAFETY



BICYCLE SAFETY - CURRENT DESIGN



roject Status 📗 Multi-Mod

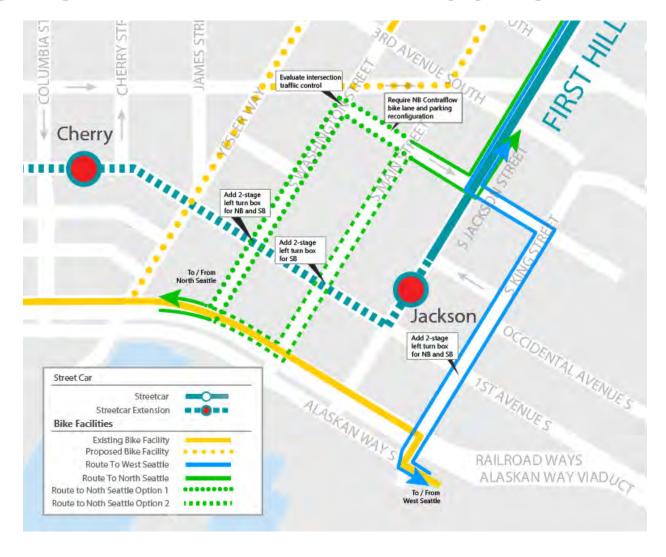
Conte

Safety

Elements

Experience

BICYCLE SAFETY – ALTERNATE ROUTES

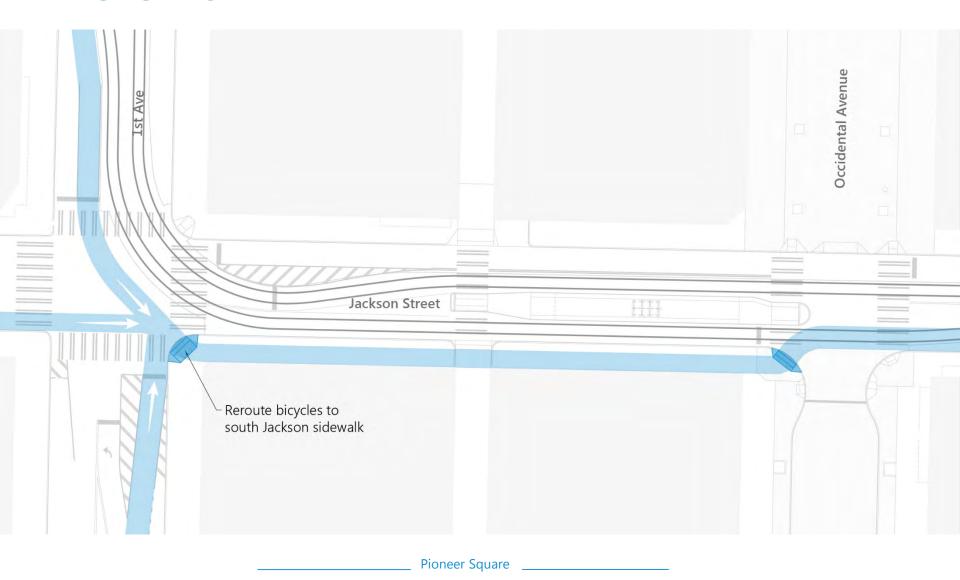


Pioneer Square

Project Status Multi-Modal Context Safety Elements Experience Operations

38

BICYCLE SAFETY – ALTERNATE 1



atus Multi-Moc

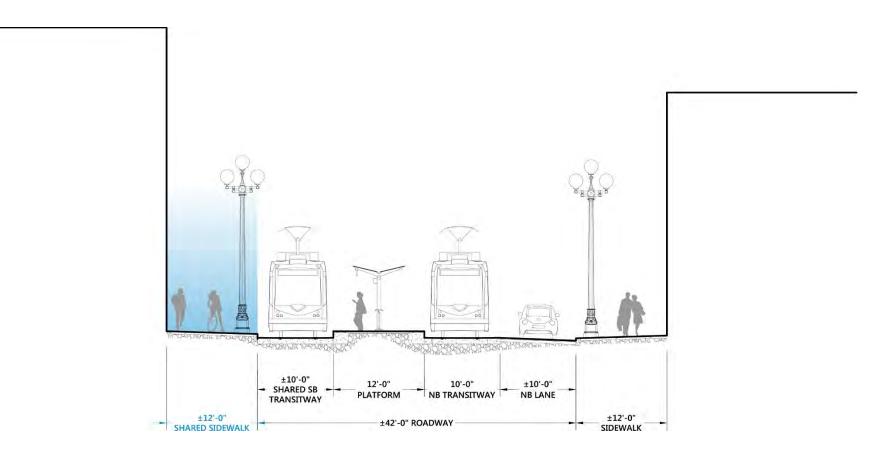
Contex

Safety

Elements

Experience

BICYCLE SAFETY - ALTERNATE 1

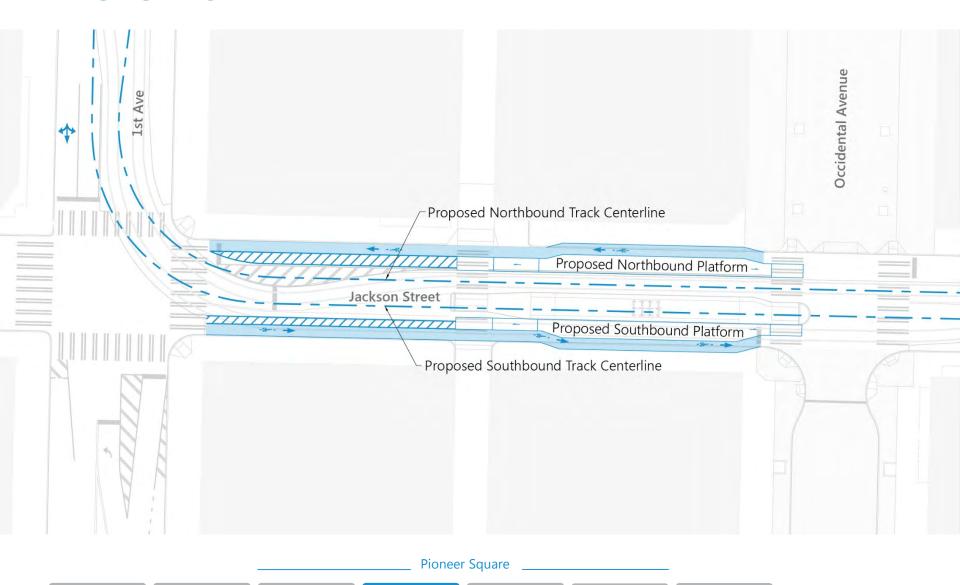


Pioneer Square

Project Status Multi-Modal Context Safety Elements Experience Operations

40

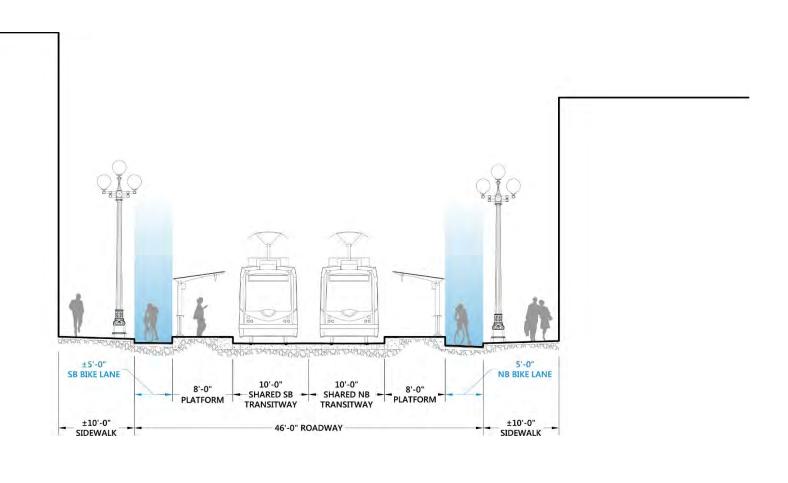
BICYCLE SAFETY – ALTERNATE 2



Project Status Multi-Modal Context Safety Elements Experience Operations

41

BICYCLE SAFETY – ALTERNATE 2

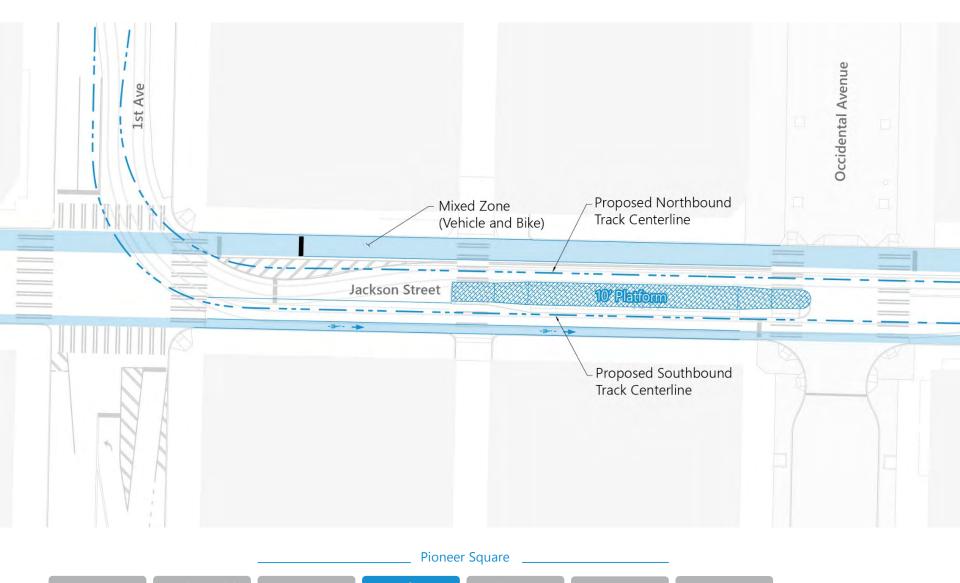


42

Pioneer Square

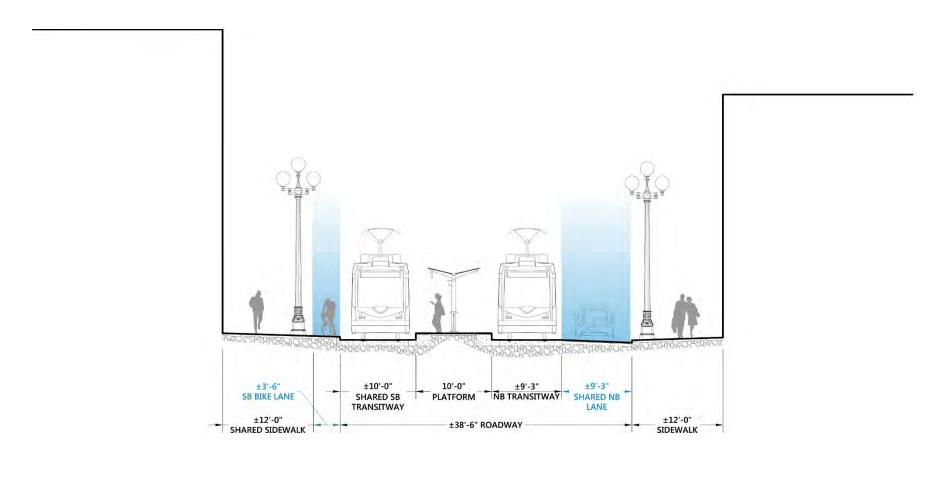
Project Status Multi-Modal Context Safety Elements Experience Operations

BICYCLE SAFETY – ALTERNATE 3 (PREFERRED)



erations

BICYCLE SAFETY – ALTERNATE 3 (PREFERRED)



Pioneer Square

Project Status Multi-Modal Context Safety Elements Experience Operations

44

PIONEER SQUARE BOULEVARD DESIGN ELEMENTS

STATION ELEMENTS



Cast-iron Tactile Edge



Steel Railing



Concrete Transitway

& Cast Iron Delineator Options



Stone Transitway & Delineator



Shelters (Center and Side Options)



Waste Receptacle



Ticket Vending Machine



ORCA Reader



PIONEER SQAURE STATION ELEMENTS



Stone Transitway



Stone Delineator



Red Oak (Quercus Rubra)



Pioneer Square

Project Status

Multi-Modal

Contex

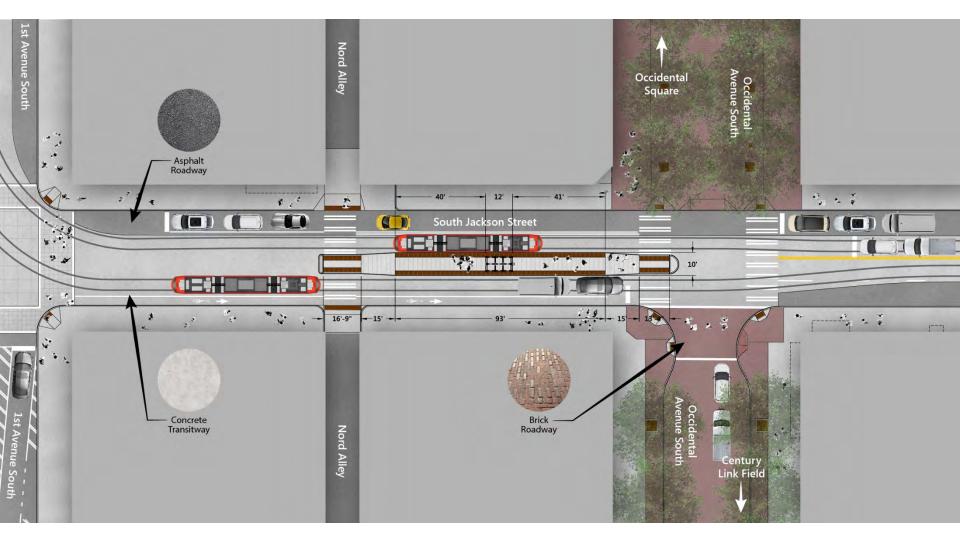
Safety

Elements

Experience

PIONEER SQUARE BOULEVARD USER EXPERIENCE

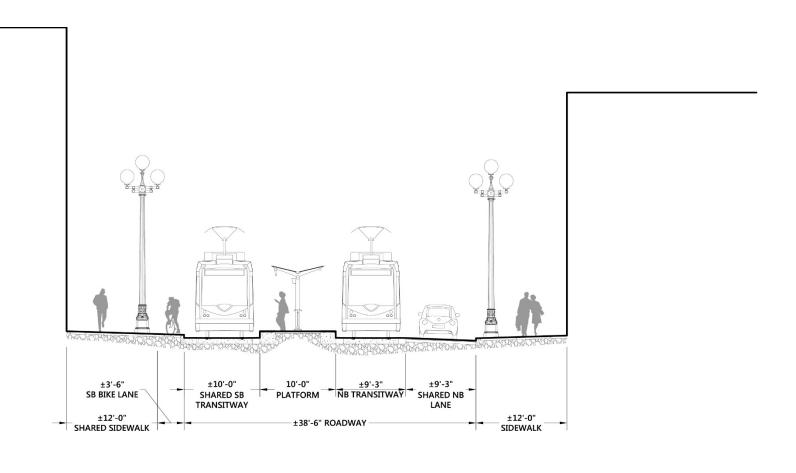
JACKSON STATION - SITE PLAN



Pioneer Square

Project Status Multi-Modal Context Safety Elements Experience Operations

JACKSON STATION – SECTION (WEST)

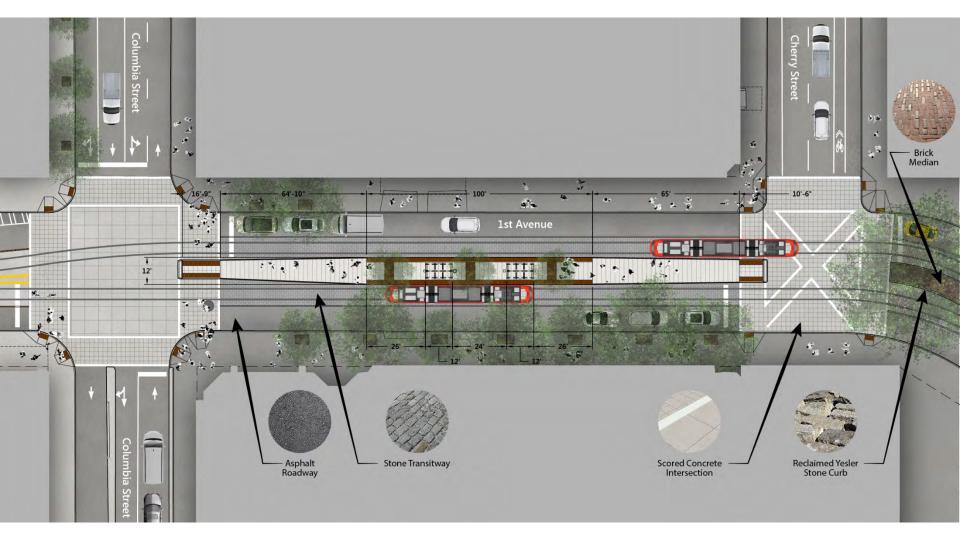


50

Pioneer Square

Project Status Multi-Modal Context Safety Elements Experience Operations

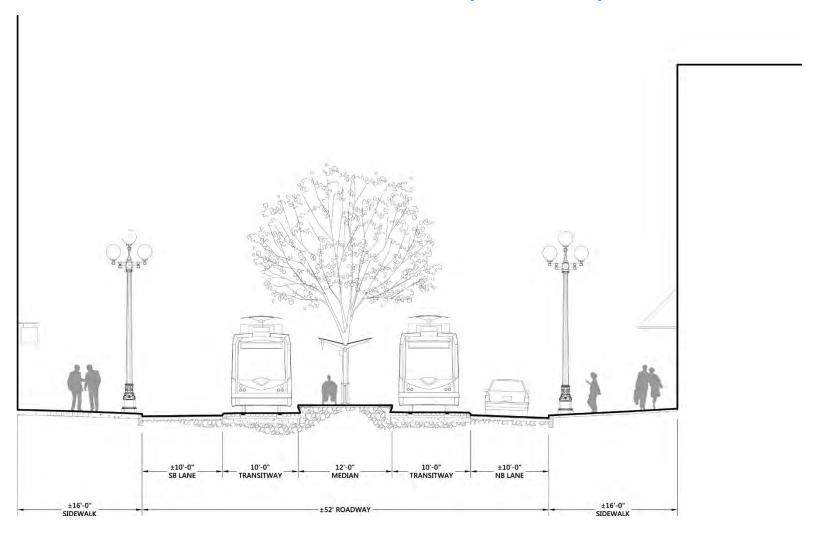
CHERRY STATION - SITE PLAN



Pioneer Square _____

Project Status Multi-Modal Context Safety Elements Experience Operation

CHERRY STATION – SECTION (NORTH)



Pioneer Square

1ST AVENUE BALCONY CONTEXT

1ST AVENUE AS SEATTLE'S BALCONY PROMENADE



1st Ave Balcony

Project Status | Multi-Mod

Contex

Safety

Elements

Experience

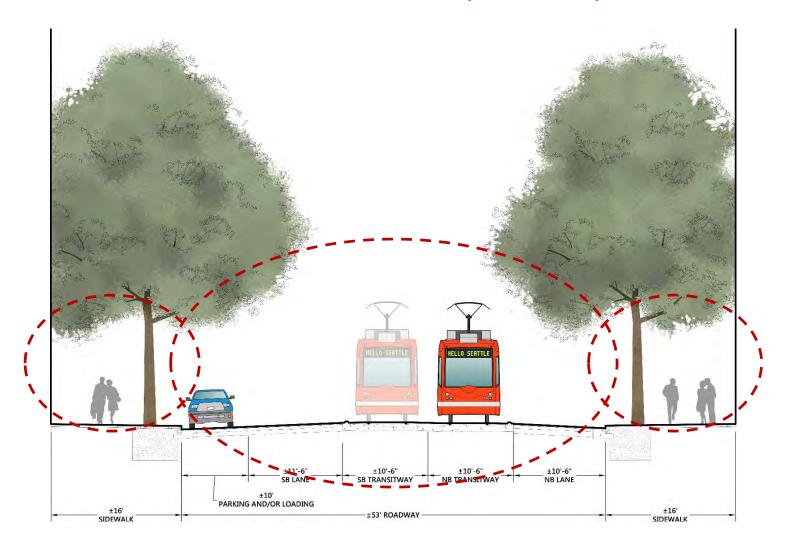
Operation:







1ST AVENUE STREET SECTION (NORTH)



1st Ave Balcony

58

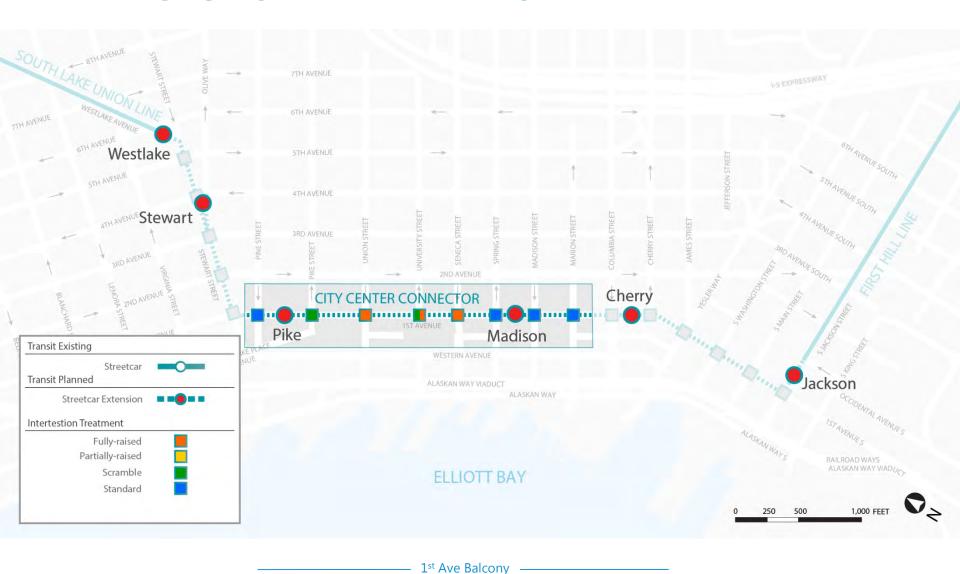
Project Status Multi-Modal Context Safety Elements Experience Operations





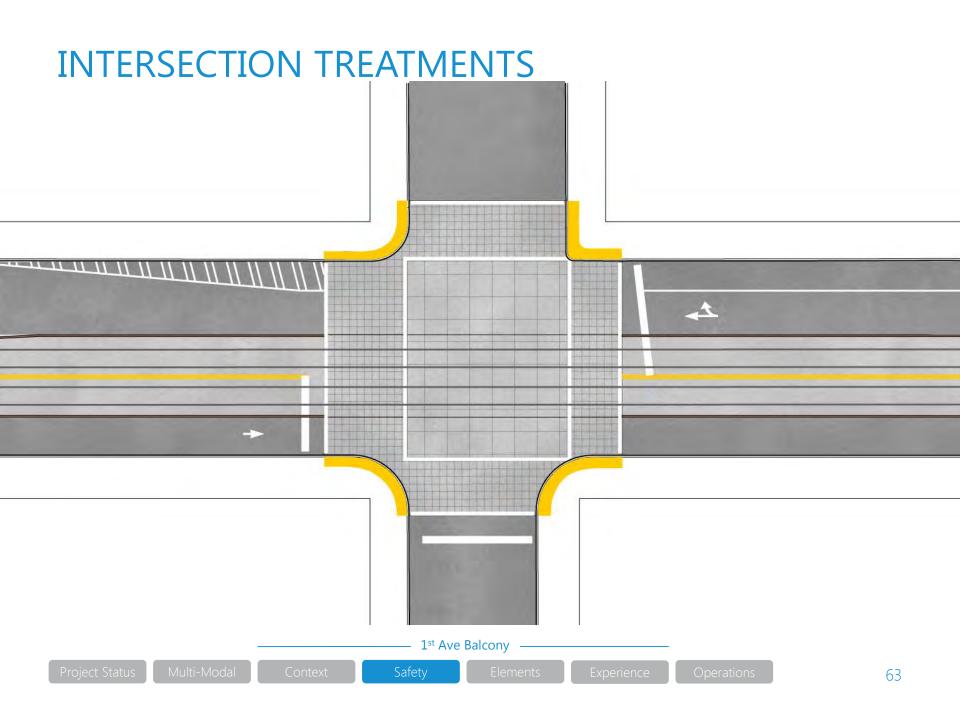
1ST AVENUE BALCONY SAFETY

INTERSECTION TREATMENTS

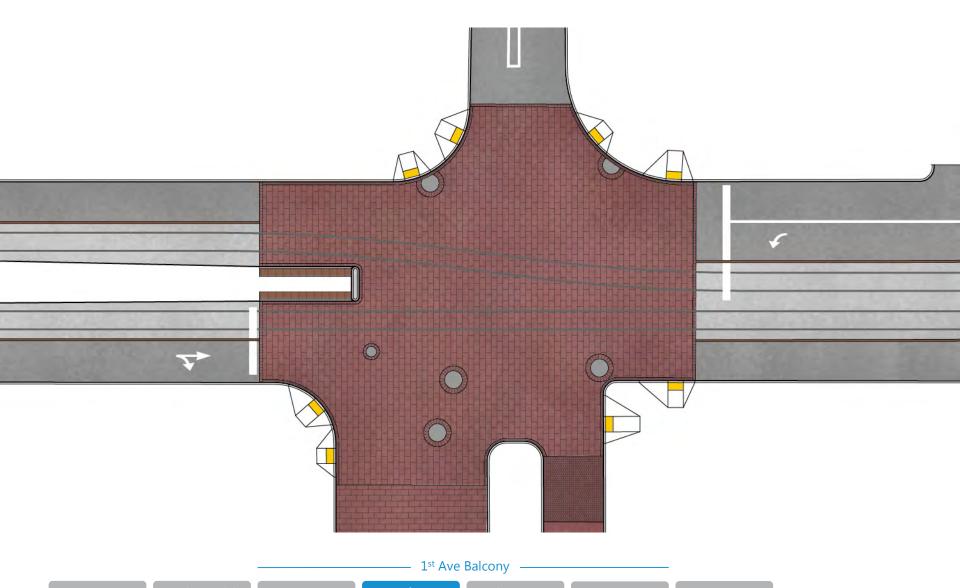


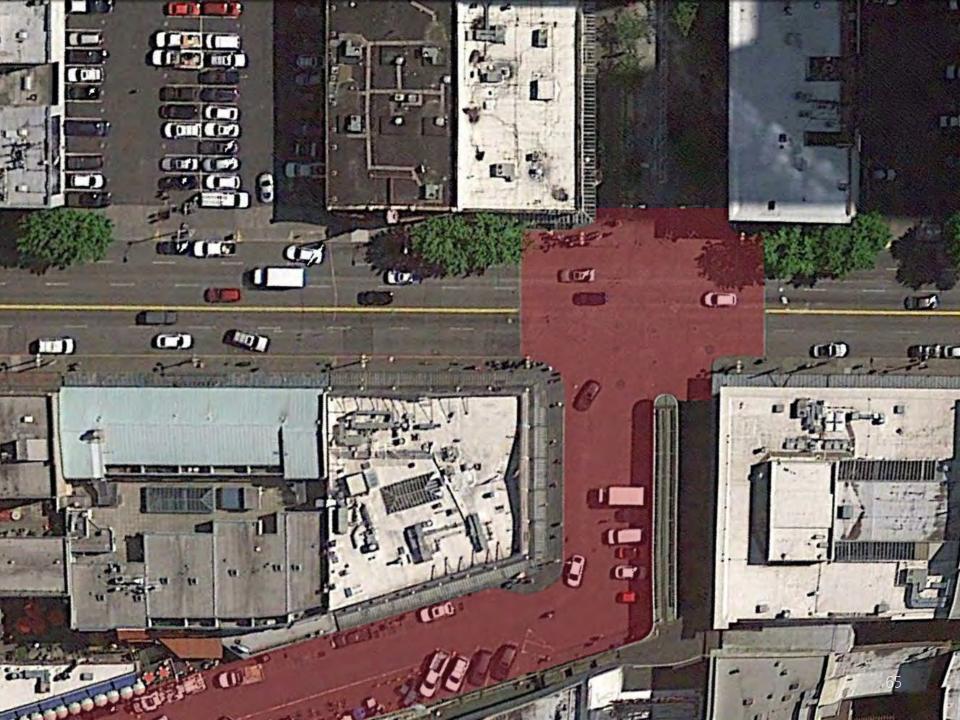
Project Status Multi-Modal Context Safety Elements Experience Operations

62



INTERSECTION TREATMENTS





PIKE INTERSECTION MATERIALS











1st Ave Balcony

Project Status Multi-Mod

Conte

Safety

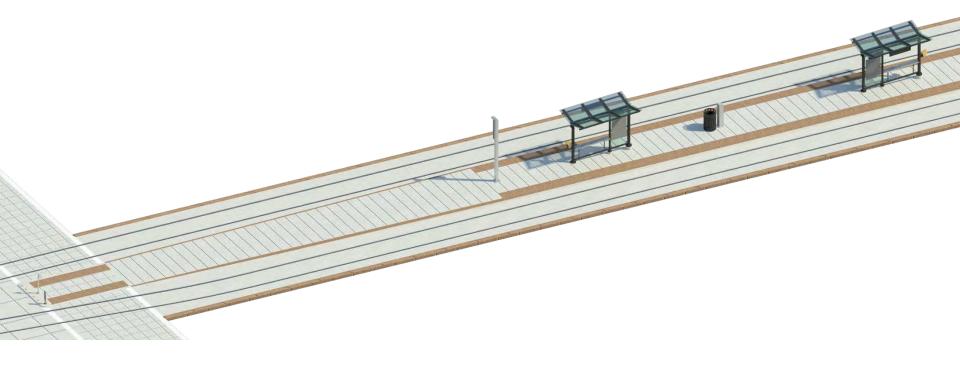
Elements

Experience

1ST AVENUE BALCONY DESIGN ELEMENTS

STATION ELEMENTS





1st Ave Balcony

Project Status 📗 Multi-Mc

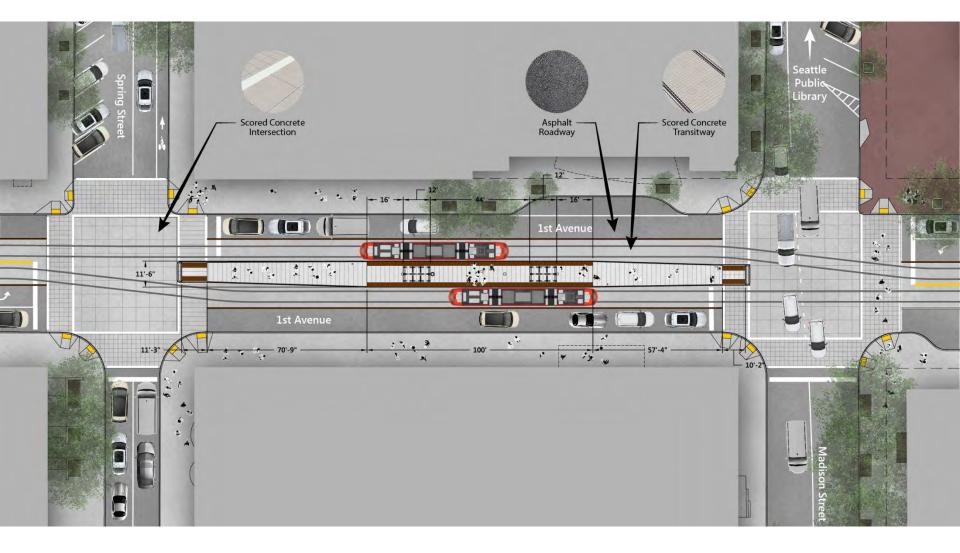
al

Elements

Experience

1ST AVENUE BALCONY USER EXPERIENCE

MADISON STATION - SITE PLAN



1st Ave Balcony

Project Status Multi-Moda

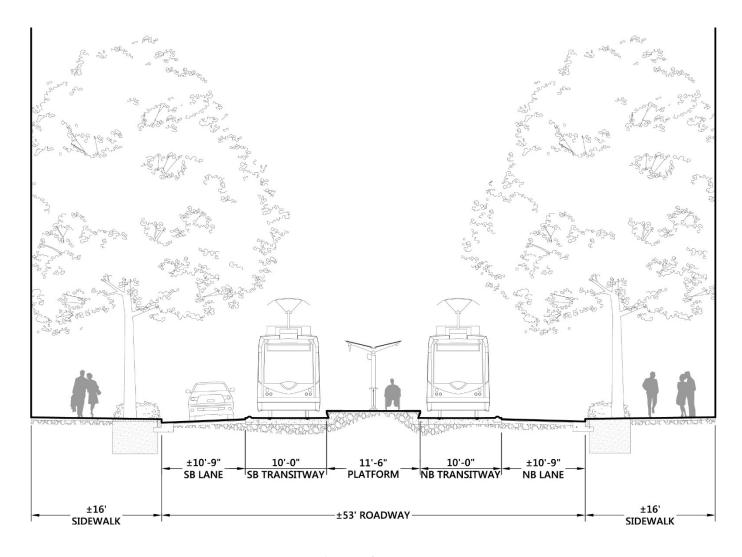
Cor

Safety

Elements

Experienc

MADISON STATION – SECTION (NORTH)



1st Ave Balcony

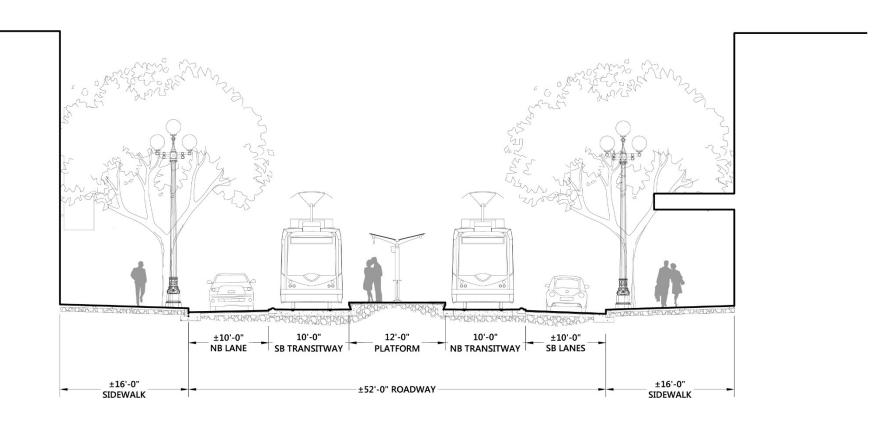
Project Status Multi-Modal Context Safety Elements Experience Operations



PIKE STATION - SITE PLAN



PIKE STATION – SECTION (SOUTH)



1st Ave Balcony

Project Status 📗 Multi-Modal

Contex

Safety

Elements

Experience



STEWART STREET ROOMS CONTEXT

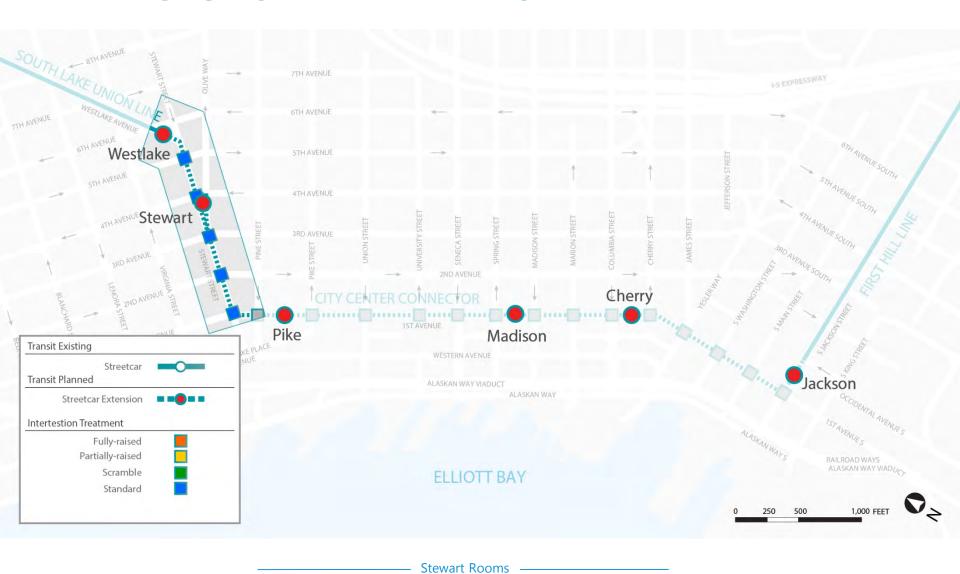






STEWART STREET ROOMS SAFETY

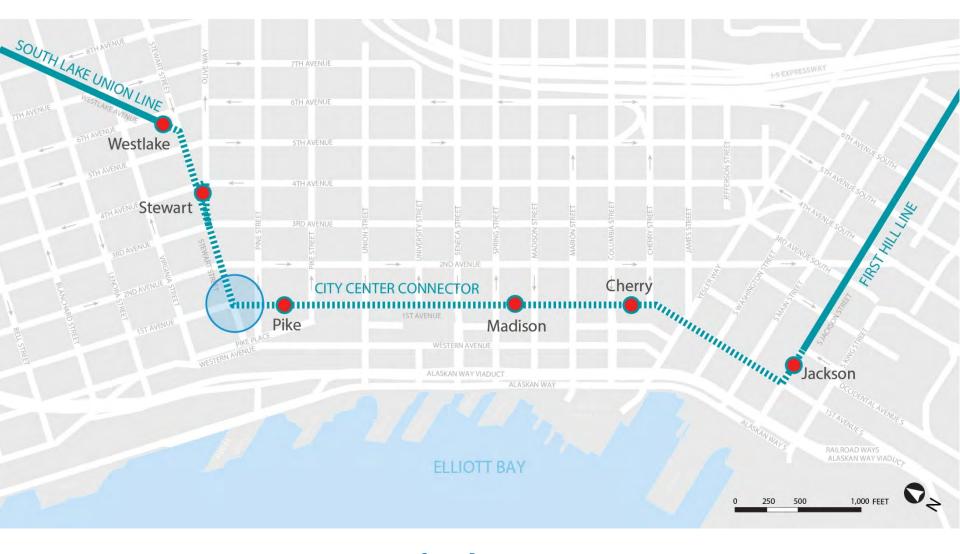
INTERSECTION TREATMENTS



Project Status Multi-Modal Context Safety Elements Experience Operations

81

BICYCLE SAFETY – 1ST AND STEWART



Stewart Rooms

Project Status Multi-Moda

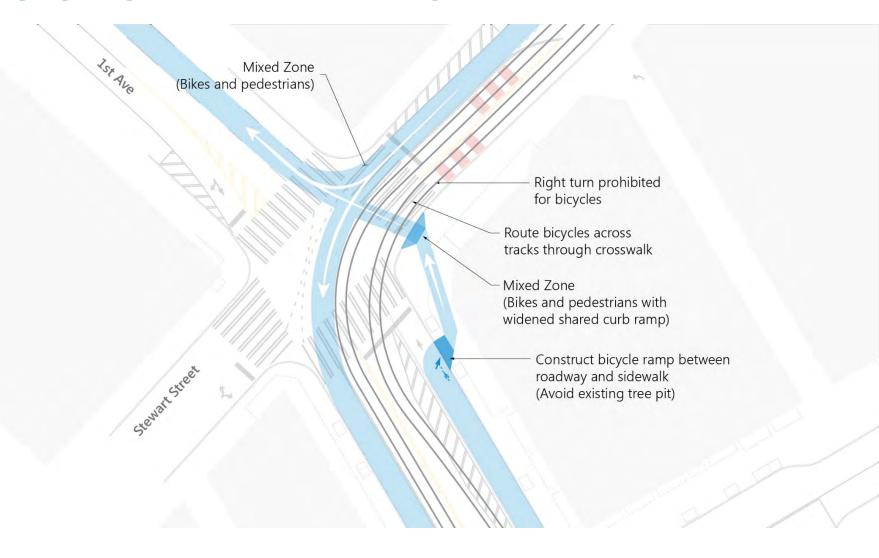
Contex

Safety

Elements

Experience

BICYCLE SAFETY – 1ST AND STEWART

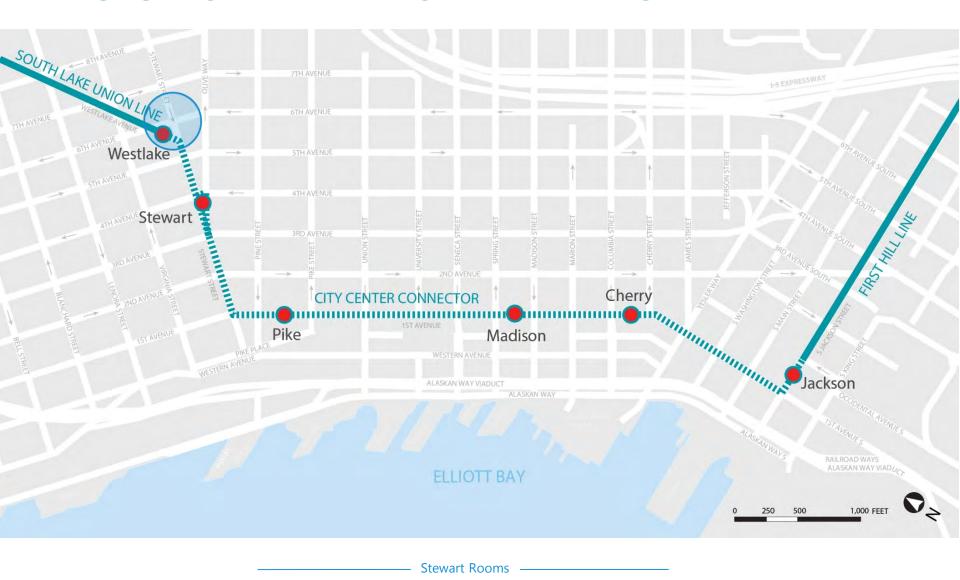


Project Status Multi-Modal Context Safety Elements Experience Operations

83

Stewart Rooms

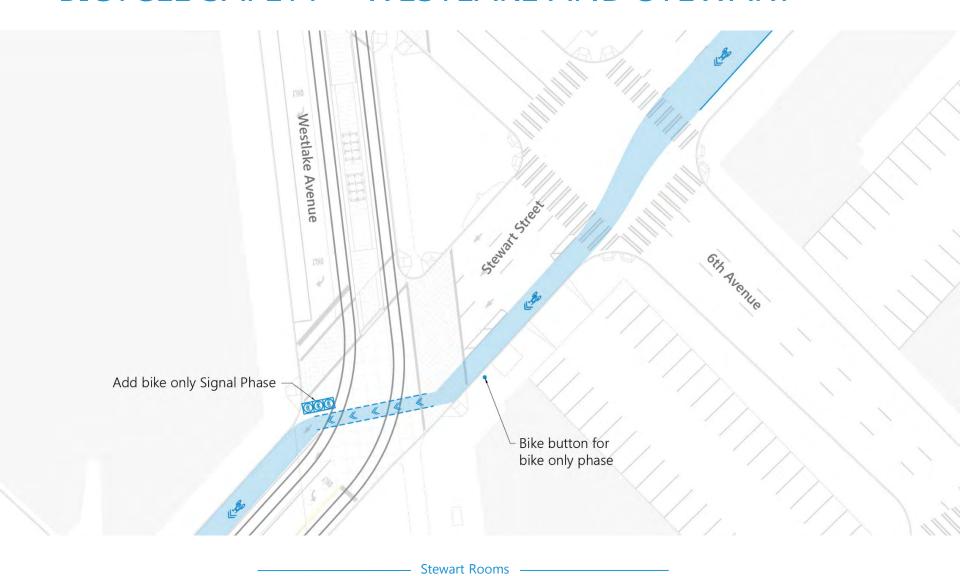
BICYCLE SAFETY – WESTLAKE AND STEWART



Context Safety Elements Experience Operations

84

BICYCLE SAFETY – WESTLAKE AND STEWART



STEWART STREET ROOMS DESIGN ELEMENTS

STATION ELEMENTS



Stewart Rooms

Project Status

Multi-Modal

Contex

Safety

Elements

Experience

Operation:

STEWART STREET ROOMS USER EXPERIENCE

STEWART STATION - SITE PLAN



Stewart Rooms

Project Status Multi-Mod

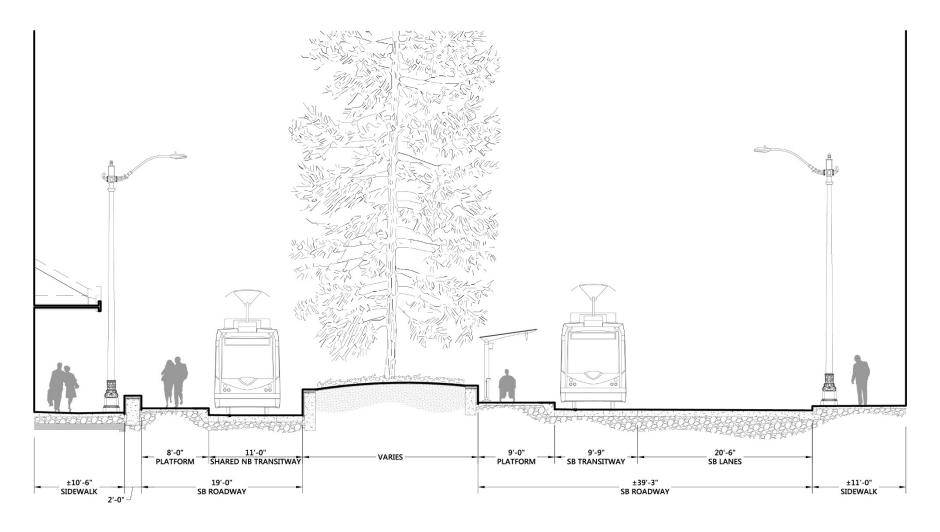
Conte

Safety

Elements

Experience

STEWART STATION – SECTION (WEST)



Stewart Rooms —

roject Status Multi-Mod

Contex

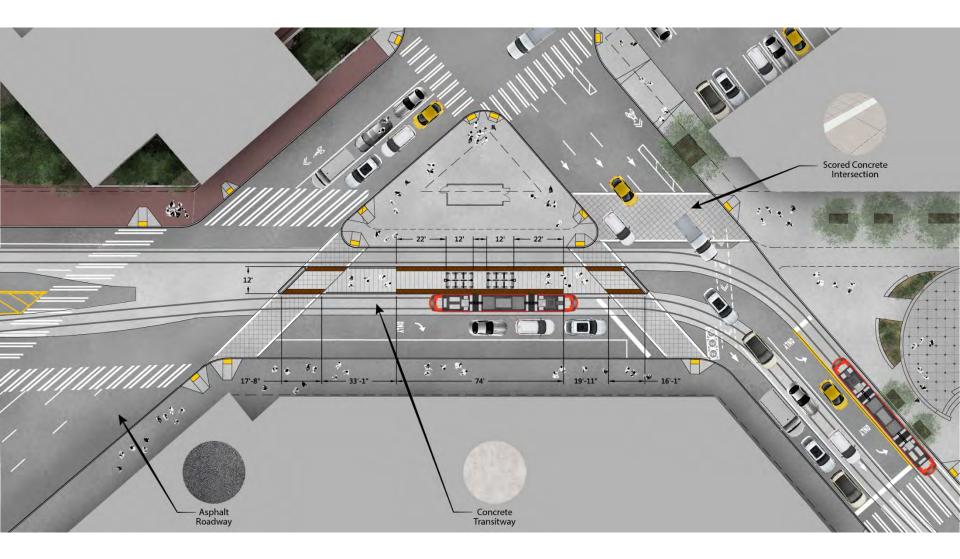
Safety

Elements

Experience



WESTLAKE STATION - SITE PLAN



Stewart Rooms

Project Status Multi-Moda

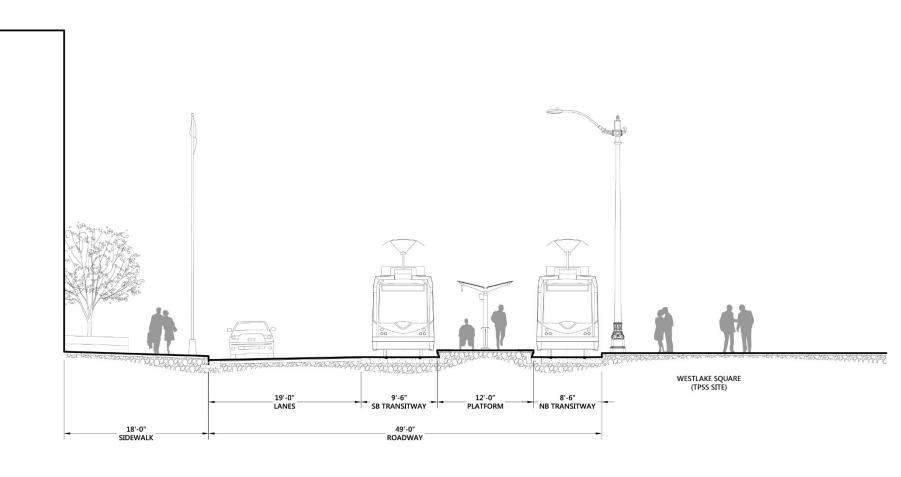
Contex

Safety

Elements

Experienc

WESTLAKE STATION – SECTION (NORTH)



Stewart Rooms

Project Status Multi-Modal Context Safety

ements Ex

OPERATIONAL FACILITIES

OVERHEAD CATENARY SYSTEM

OVERHEAD CATENARY SYSTEM (OCS)



Schematic Design _____

OVERHEAD CATENARY SYSTEM (OCS)







Schematic Design

Project Status Multi-N

Multi-Modal

Context

Safety

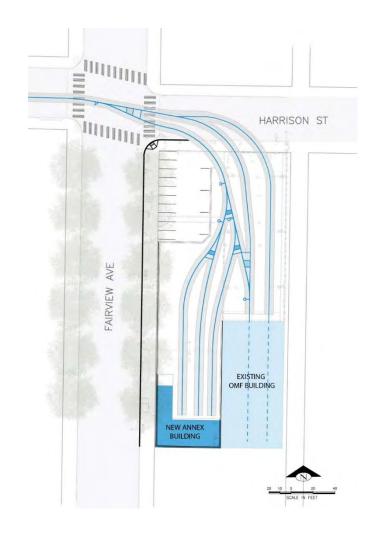
Elements

Experience

OPERATIONS AND MAINTENANCE FACILITY – SOUTH LAKE UNION

OPERATIONS & MAINTENANCE FACILITY





Schematic Design

OPERATIONS & MAINTENANCE FACILITY



Schematic Design

Project Status

Multi-Modal

Contex

Safety

Elements

Experience

TRACTION POWER SUBSTATION (TPSS)

WESTLAKE SQUARE AREA PLAN



Project Status

Multi-Modal

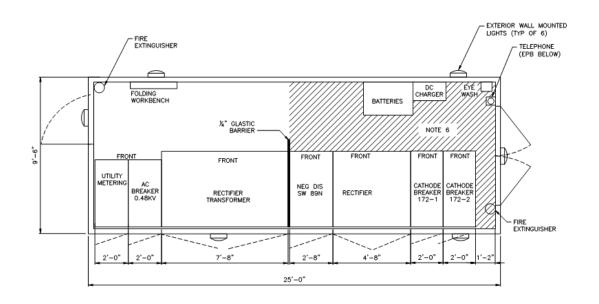
Context

Safety

Elements

Experience

WESTLAKE SQUARE TPSS





103

Schematic Design

TPSS - SCREENED WRAPPING













Lawrence TPSSMesa, AZ

PumstationRodenkirchen, GE

Central Signal BoxBasel, CH

Schematic Design

roject Status 📗 Multi-Mod

Contex

Safety

Elements

Experience

TPSS – URBAN PAVILION / FOLIES









Cairns TPSSCairns, AU



Seaholm SubstationAustin, TX



Parc de la Villette
• Paris, FR

Schematic Design

TPSS - CAMOUFLAGE













Denny SubstationSeattle, WA

Folded Landscapes

• Los Angeles, CA; New York, NY

SubstationsRotterdam, NL

Schematic Design



Next Steps / Questions

