







Briefing Overview

Context of the Streetcar System

Project Design Parameters

Urban Design Analysis & Priorities

Context of the Streetcar System

Center City Streetcar

5.5-mile system

- South Lake Union (opened 2007)
- First Hill (opening 2015)
- Broadway (to open 2017)
- Center City Connector (to open 2018)



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Role of Streetcar

Transit in Seattle

- Light rail is regional spine
- Streetcar and BRT serve city's high capacity corridors
- Buses continue to serve most transit corridors and neighborhoods

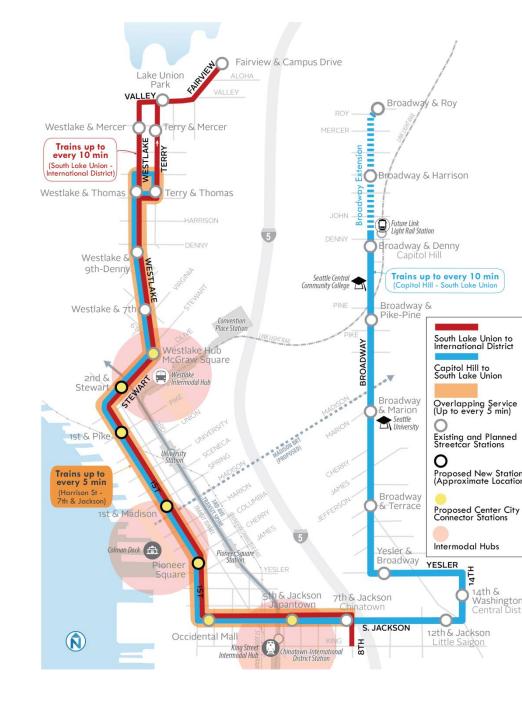


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Operating Plan

Streetcar Frequency (peak)

- Capitol Hill to South Lake Union—
 10-minute headways
- South Lake Union to Chinatown-International District—
 10-minute headways
- Center City—5-minute headways



Attributes

- Connects established neighborhoods
- Runs every 10 minutes (peak)
- Operates in mixed-traffic lanes
- Extends the Protected Bike Lane

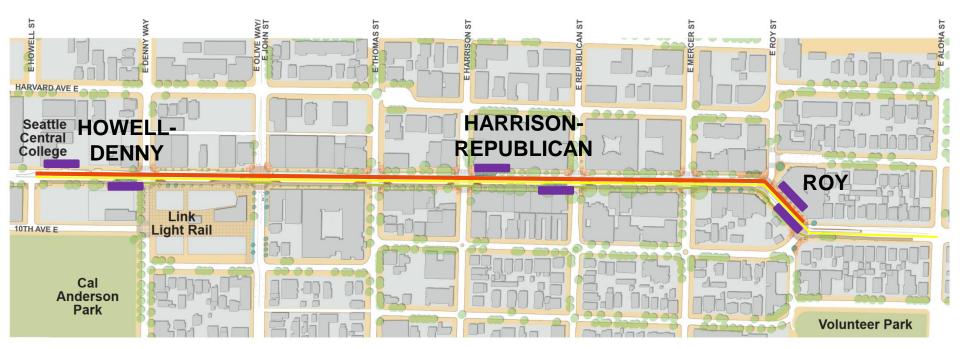




Project Design Parameters

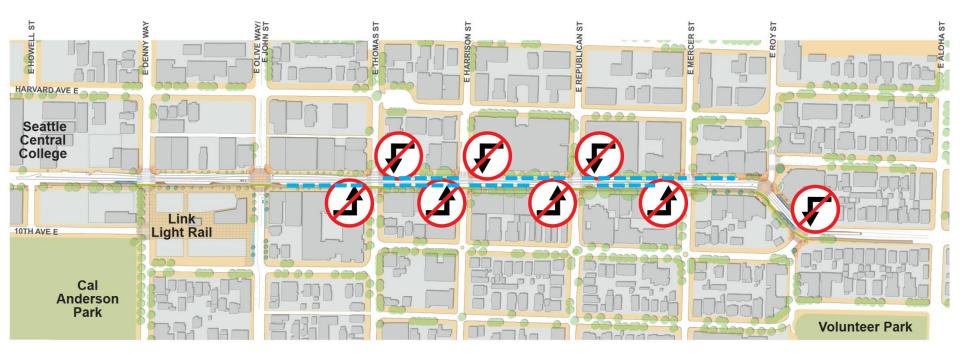
- 7 blocks (1/2 mile) north of Olive/John
- Fine-scale, colorful storefront district
- Transit hub





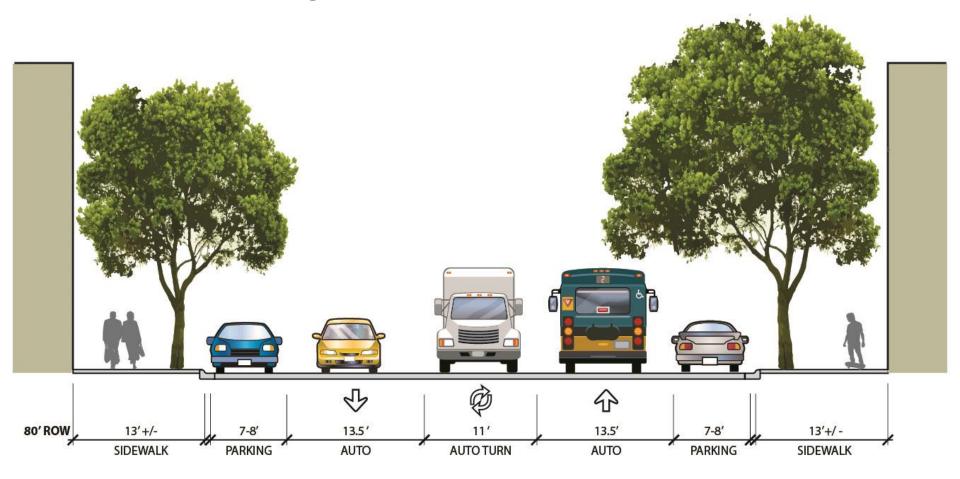
Alignment

- Streetcar—center of roadway, terminates at E Roy St.
- Protected Bike—east side of Broadway, transitions at E Aloha St.
- Stations—shared with Metro buses
- Sidewalks not included—primarily spot improvements

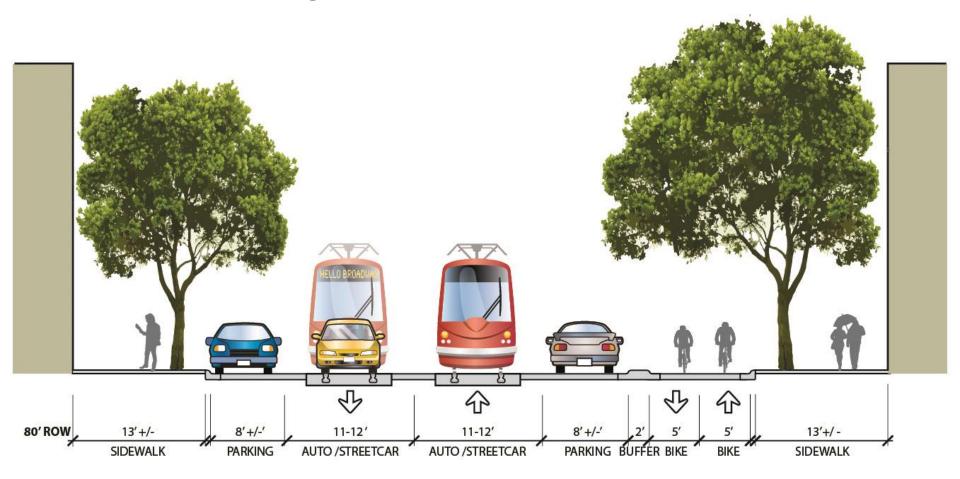


Turns & Parking

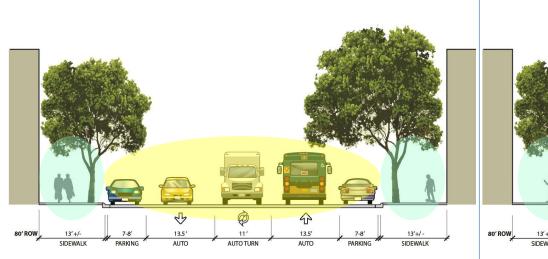
- No left turns for 3-4 blocks
- Retain parking in commercial heart

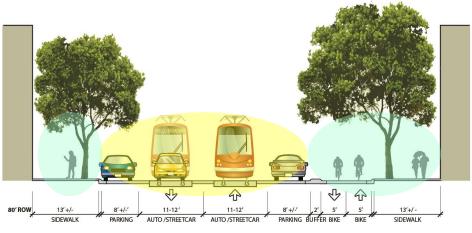


Existing



New—typical





Existing

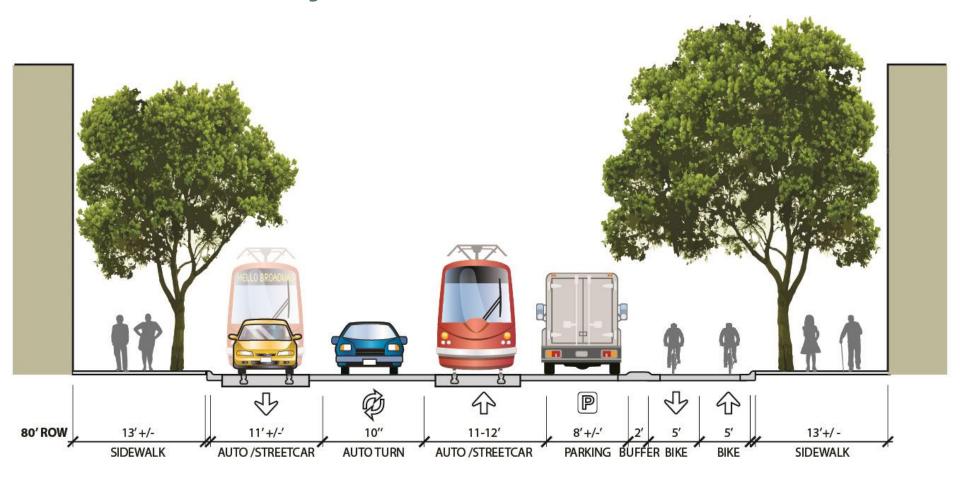
32% pedestrian realm

68% vehicle realm

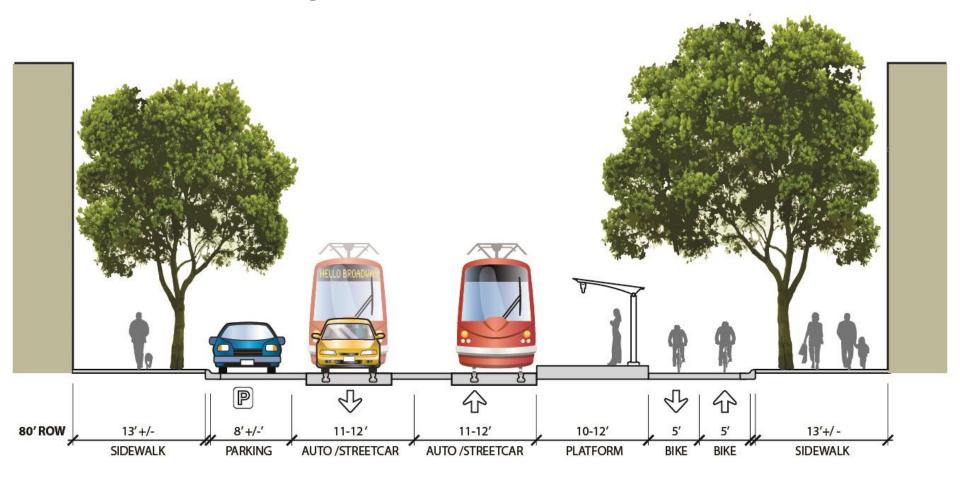
New—typical

47% pedestrian realm

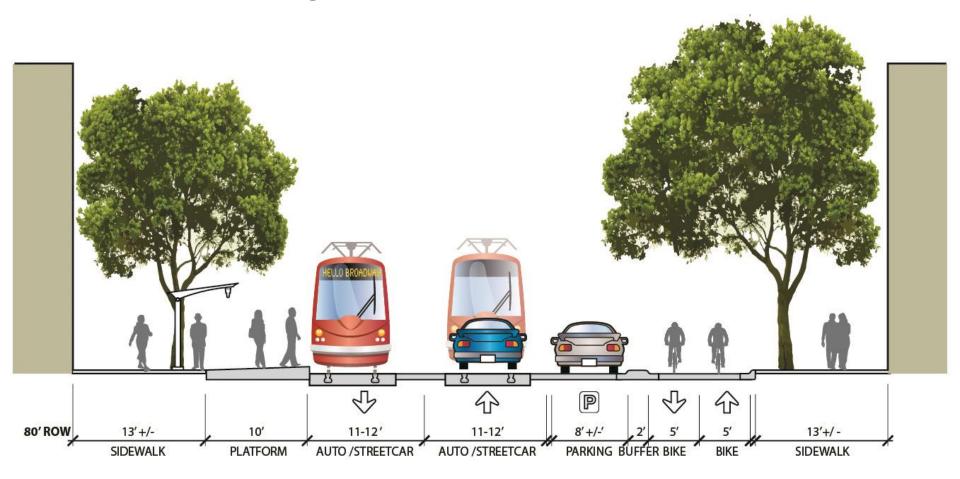
53% vehicle realm



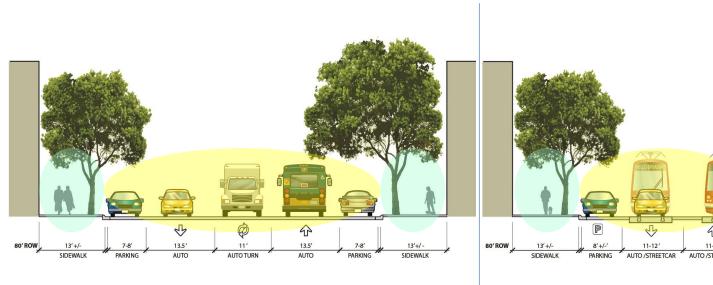
New—turn lane



New—northbound station



New—southbound station



Existing

32% pedestrian realm

68% vehicle realm

New—at station platforms

60% pedestrian realm

40% vehicle realm

Urban Design Priorities

- Urban Design Vision & Continuity
- Special Character Areas
- Urban Design Features

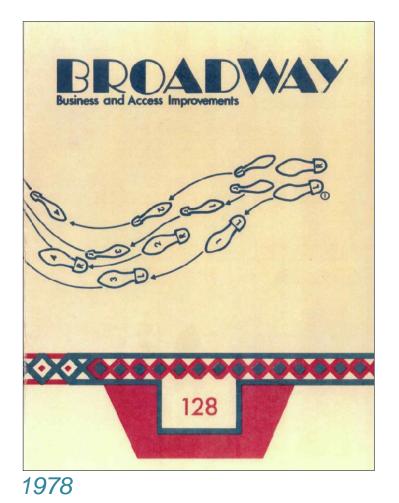
Urban Design Vision

- Accommodate North Broadway's critical pedestrian needs
- Preserve and enhance North Broadway's special character





Urban Design Continuity







2015

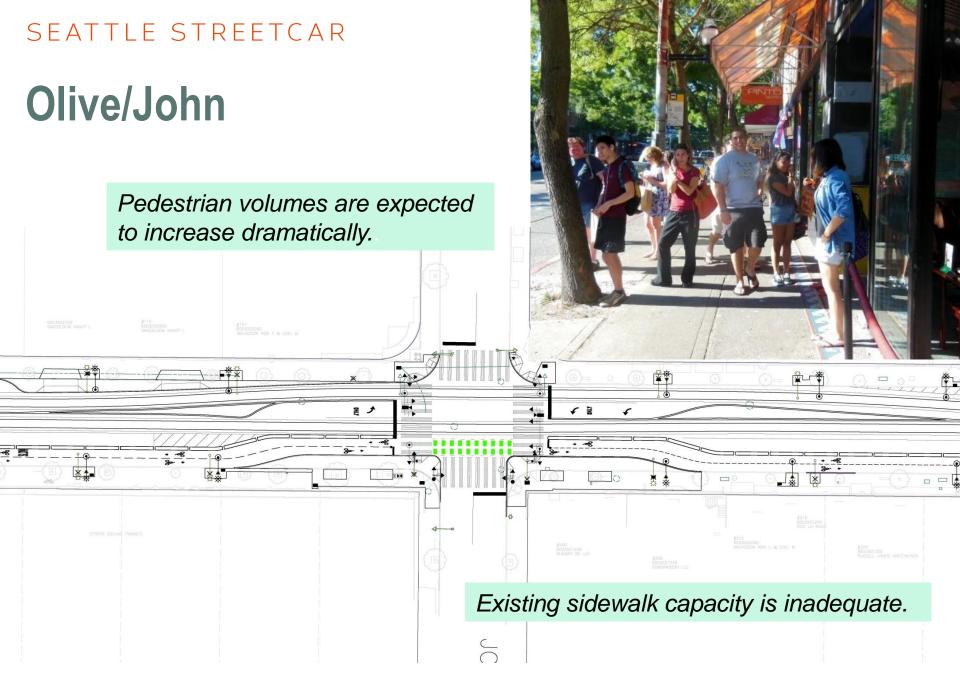
Special Character Areas

- Howell-Denny—streetcar stop
- Olive/John—crossroads
- Harrison-Republican—streetcar stop
- Roy/10th—streetcar stop
- Aloha—PBL transition





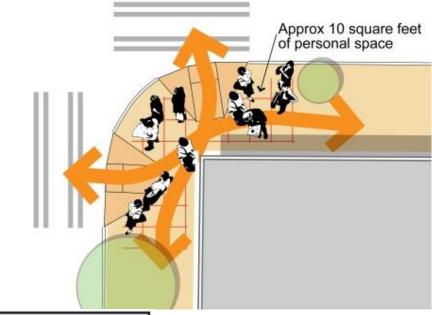




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Olive/John

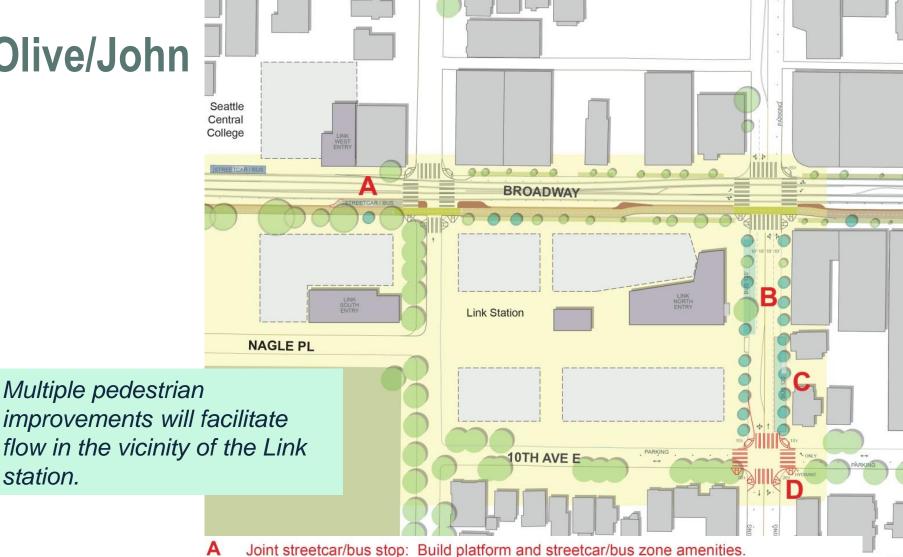
About 12-13 people fit on an existing Broadway corner.



	2015		2030	
	PEDESTRIANS PER HOUR (PEAK)	PEDESTRIANS PER SIGNAL CYCLE *	PEDESTRIANS PER HOUR (PEAK)	PEDESTRIANS PER SIGNAL CYCLE *
North Leg	896	25	1086	30
South Leg	1526	42	1888	52
East Leg	691	19	848	24
West Leg	932	26	1198	33
Totals	4045	112	5020	139
Average	1011	28	1255	35
Source: Sound Transit		* Assumes 36 signal cycles per hour		

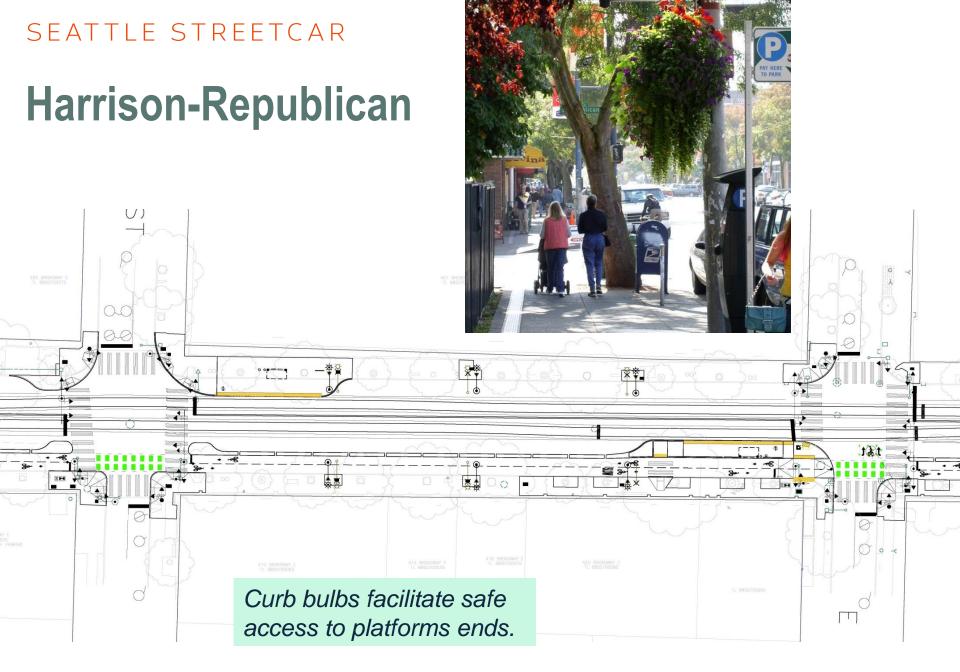
SEATTLE STREETCAR

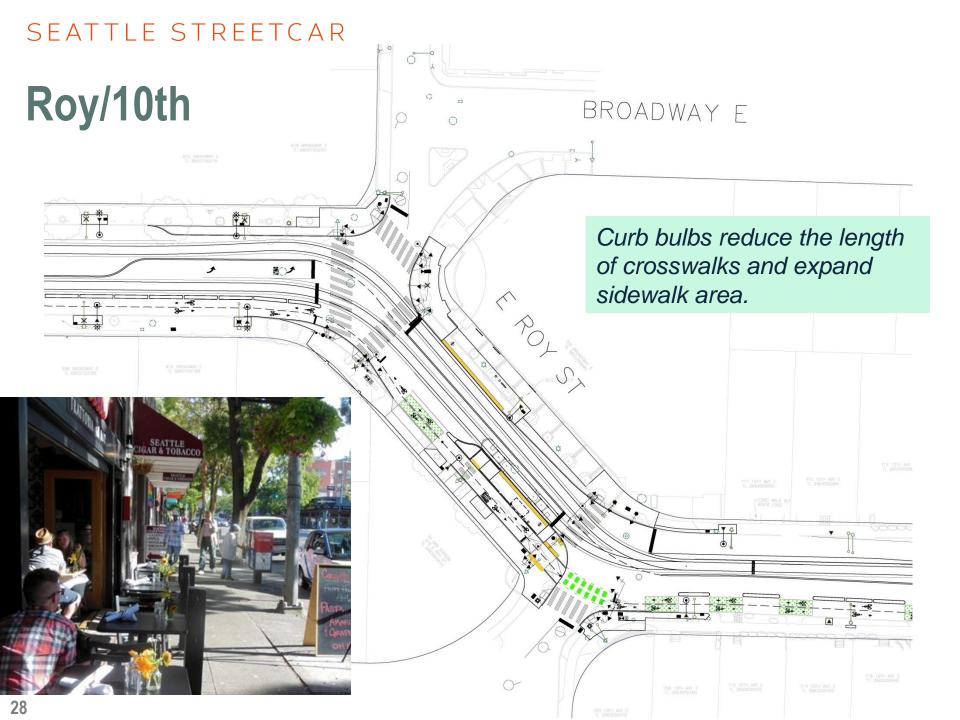
Olive/John

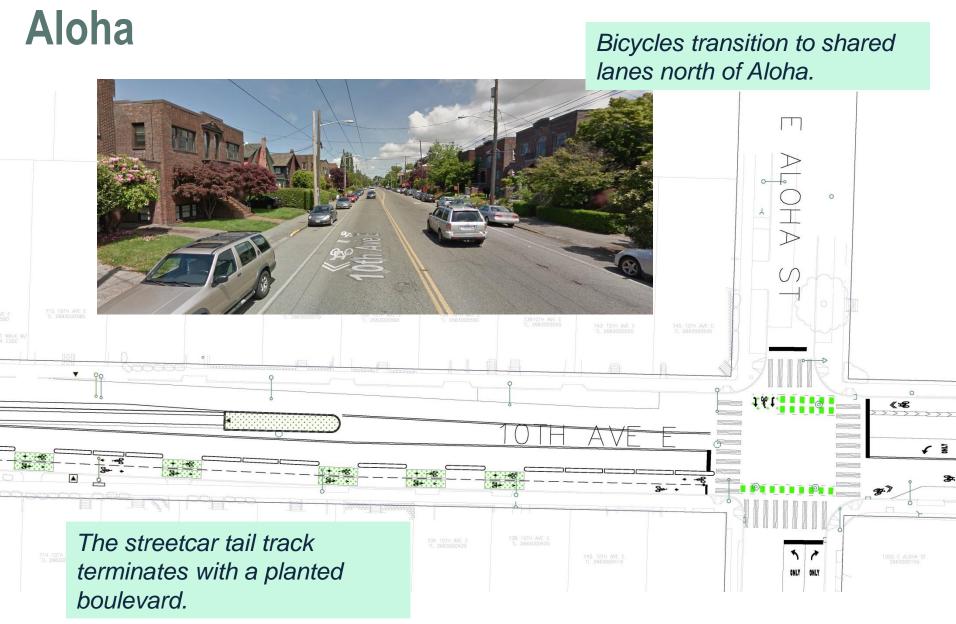


- E John St: Re-channelize roadway.
- WB bus stop: Relocate bus zone; install sidewalk improvements and bus zone amenities.
- 10th & John intersection: Build curb extensions and pedestrian improvements.

station.





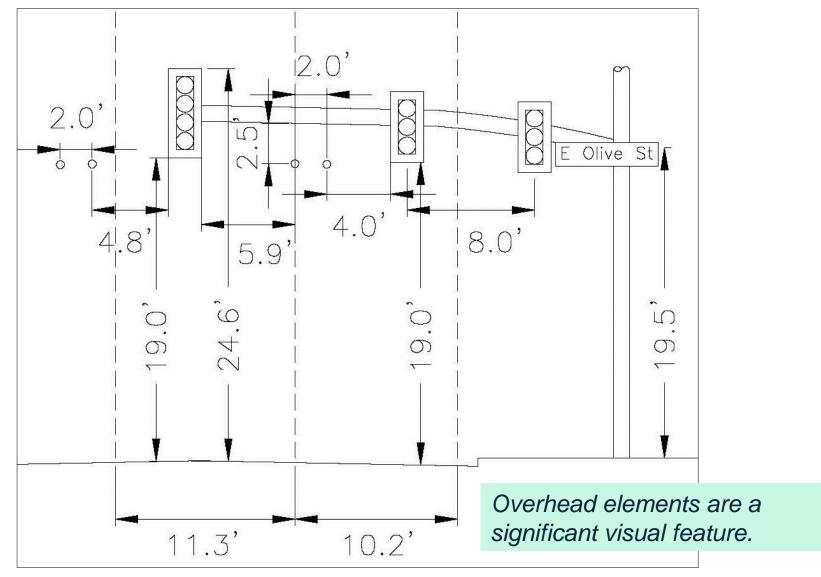


Urban Design Features

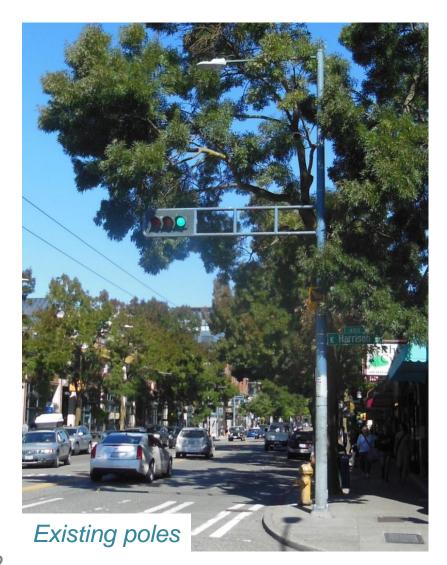


- Signal Poles, Mast Arms & Heads
- Pedestrian Lighting
- Platform & Protected Bike Lane Integration
- PBL Buffer
- Public Art

Signal Poles & Mast Arms



Signal Poles & Mast Arms



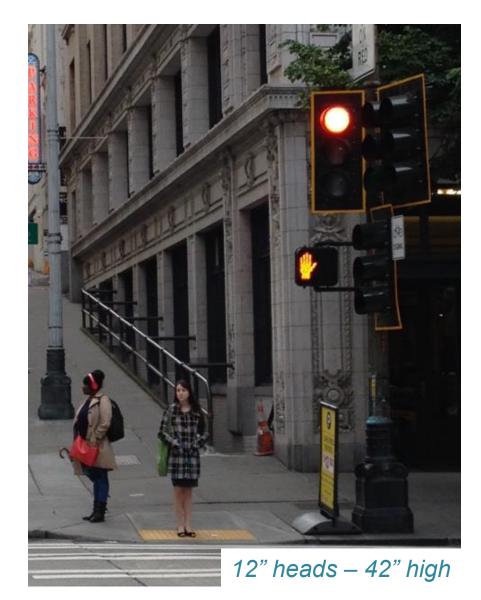
The design currently calls for mast arms rather than span wires.



Signal Heads



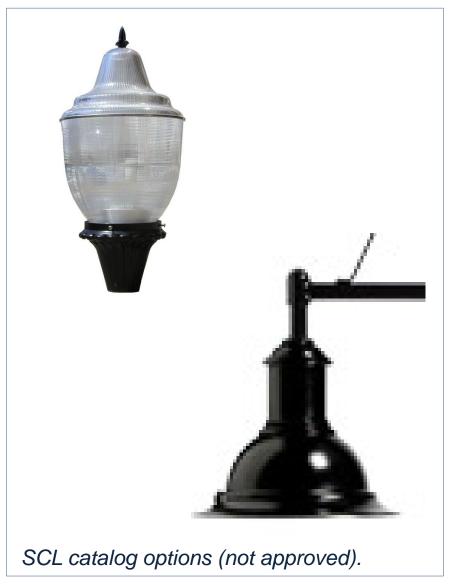
The design team will balance safety and character in determining signal head sizes. The design currently calls for 8" signal heads.



Pedestrian Lighting



Pedestrian luminaires are not required by code but may be desired by the community.

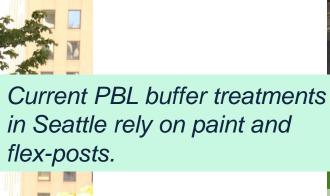


Platform & Bike Lane Integration



Protected Bike Lane Buffer





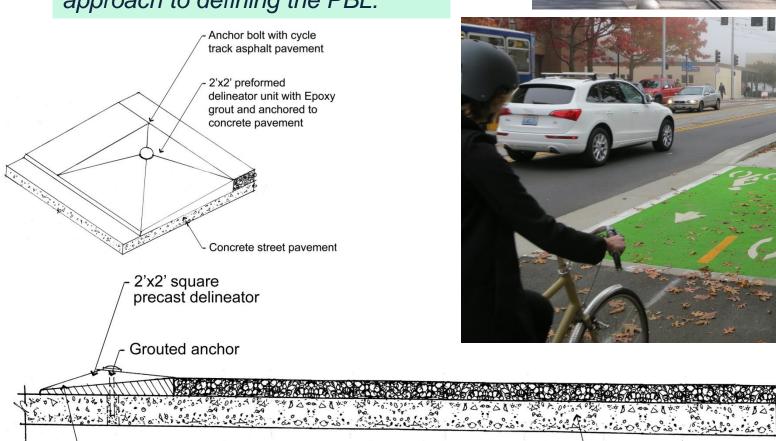
Broadway



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Protected Bike Lane Buffer

The streetcar project is exploring a more architectural, integrated approach to defining the PBL.



Epoxy adheasive





Sidewalk

10'

Concrete pavement

Public Art

New public art will blend with Broadway's existing, distinctive artwork.

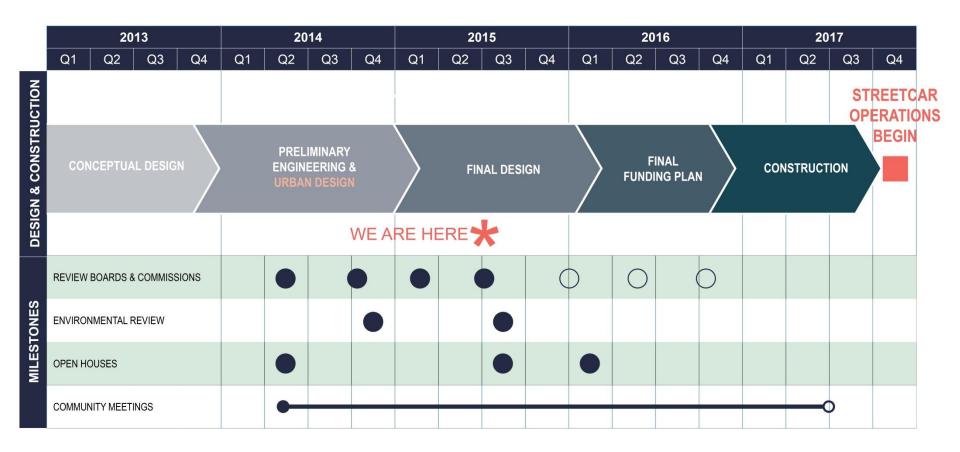


The tile bend focuses attention toward buildings thresholds.



Jack Mackie's Dancers' Series: Steps artwork is a popular icon.

Project Schedule



Thank you!

Design Team

SDOT:

- Ethan Melone—Rail Manager
- Catherine Maggio—Rail Strategic Advisor, Urban Design Lead
- Barbara Lee—Project Manager
- John Hammersmith—Lead Project Engineer
- Bill Bovey—Lead Construction Engineer
- Art Brochet—Project Information Officer

Consultants:

- AECOM
- Makers Architecture and Urban Design

