
ROOSEVELT TO DOWNTOWN HIGH-CAPACITY TRANSIT STUDY OPEN HOUSE MEETING AGENDA

6:00 PM	WELCOME/CHECK-IN
6:15 PM	SLIDESHOW PRESENTATION
6:30 PM – 8:00 PM	VISIT STATIONS PROVIDE FEEDBACK
8:00 PM	OPEN HOUSE ENDS

STAY INVOLVED!

VISIT OUR WEBSITE OR SEND US AN EMAIL:

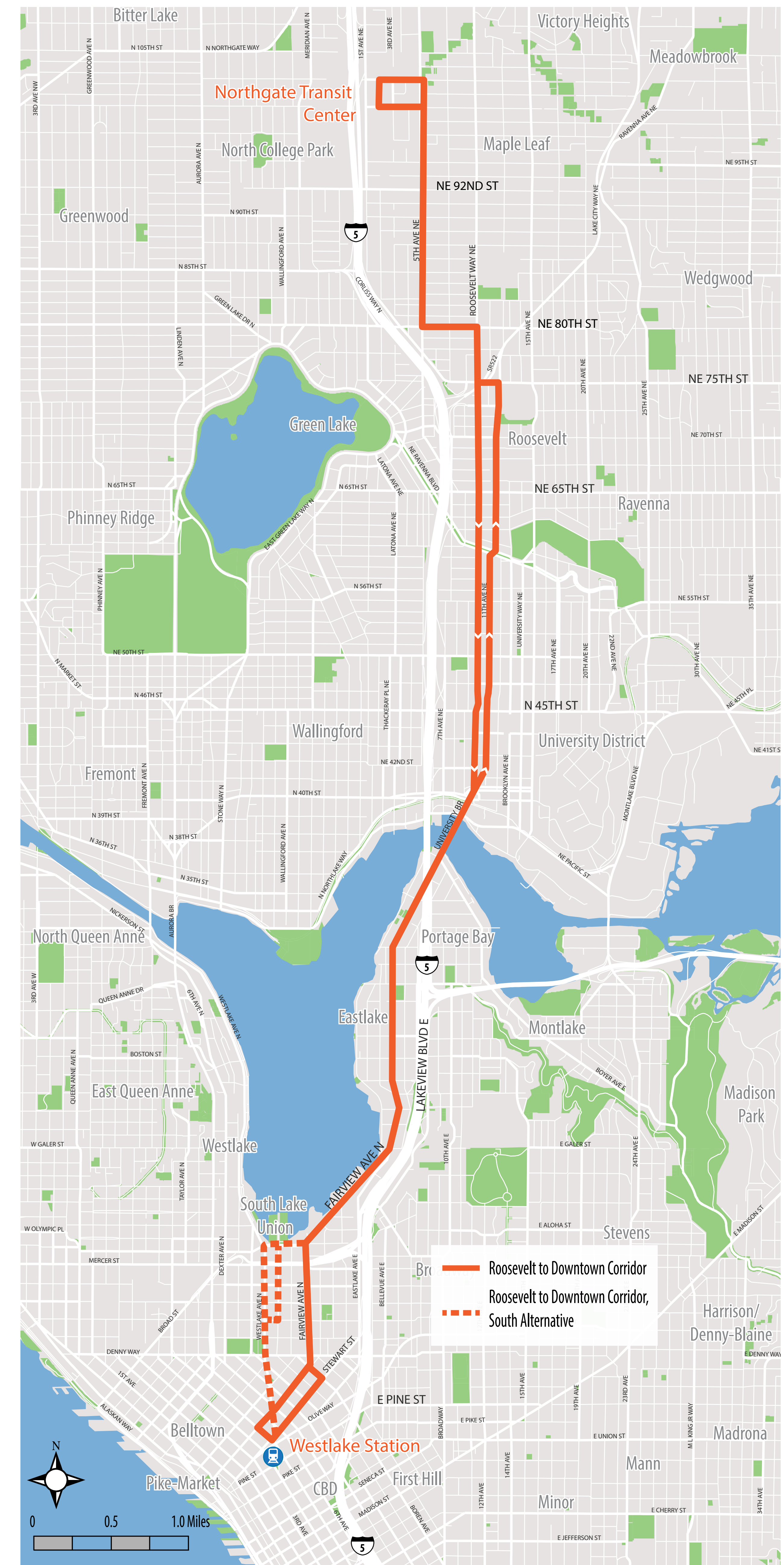
seattle.gov/transportation/roosevelthct.htm

RooseveltToDowntown@seattle.gov

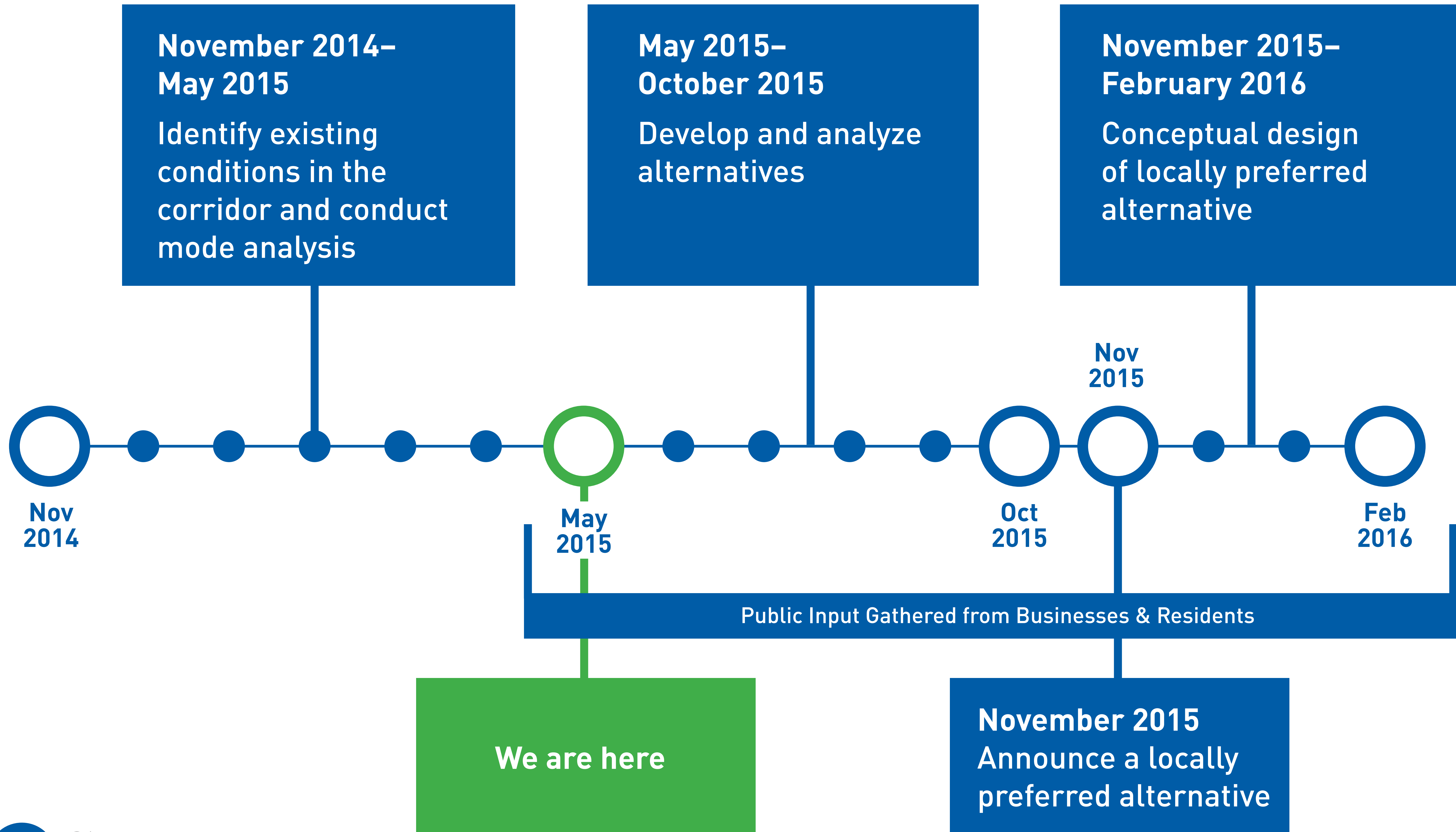


PROJECT SUMMARY

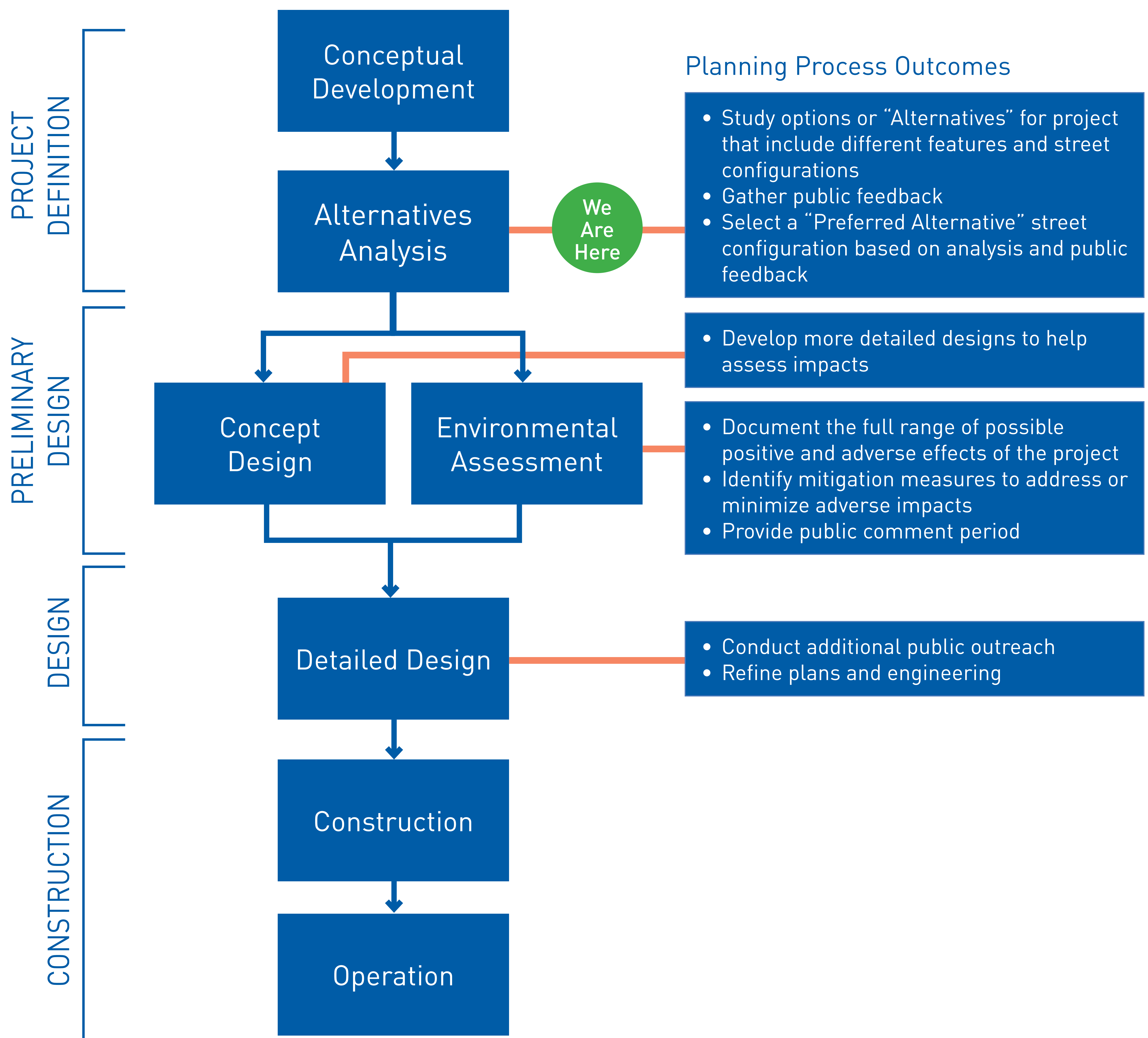
- Corridor identified as a top priority in the 2012 Seattle *Transit Master Plan*
- Exploring options for *High-Capacity Transit*
- Use *Move Seattle* approach to accommodate all modes
- Goal of this study is to identify a *Locally Preferred Alternative*



PROJECT TIMELINE



PROJECT PLANNING PROCESS

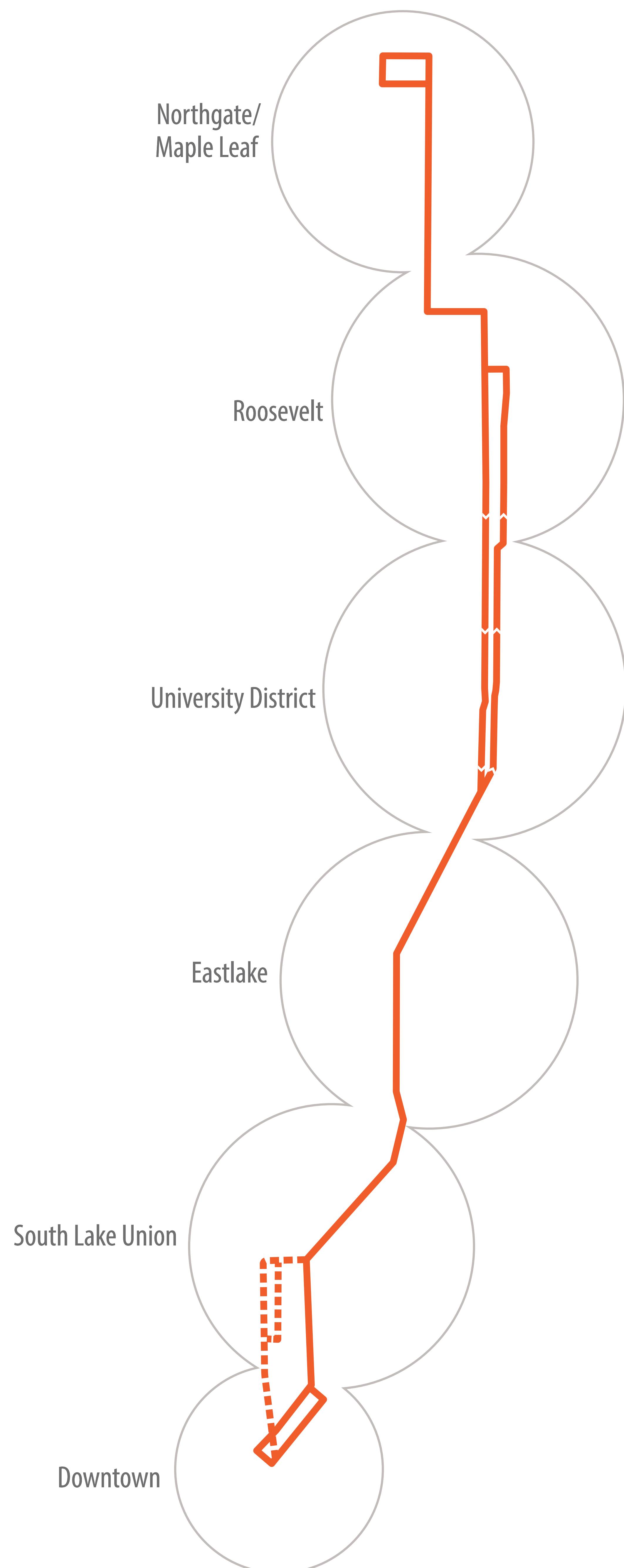


This is the Federal Transit Administration (FTA) process for all federally funded capital projects.

DRAFT

PROJECT PURPOSE AND NEEDS

- **Develop high capacity transit service that includes physical enhancements to existing pedestrian and bicycle facilities**, including smooth sidewalks, ADA-compliant curb ramps, and protected bicycle lanes, to improve access, circulation, and safety
- **Provide high capacity transit service to support the transit mode share goals** outlined in the Northgate, Roosevelt, University District, and South Lake Union Neighborhood Community Plans
- **Strengthen the north-south connections** to the regional transit system, including future Link stations, to improve livability and support growth in the Northgate, Maple Leaf, Roosevelt, University District, Eastlake, South Lake Union, and Downtown neighborhoods and connect two of the fastest growing employment centers
- **Provide high capacity transit service that is fast, reliable, comfortable, and easy to use** to replace existing crowded, unreliable, and slow service along the Roosevelt to Downtown corridor
- **Connect residential developments**, especially moderate income housing in the Maple Leaf, Roosevelt, University District, and Eastlake neighborhoods, to new major technology employment and medical service centers, mainly in South Lake Union, University District, and Downtown Seattle neighborhoods



WHAT IS BUS RAPID TRANSIT (BRT)?

BRT combines a rubber-tired bus with the operating characteristics of a rapid streetcar, including longer stop spacing, exclusive right-of-way where possible, and high quality stations



Cleveland

MOVING BEYOND RAPIDRIDE

- Seattle's existing RapidRide service offers limited BRT features including fewer stops and along some segments, transit signal priority and semi-exclusive lanes
- BRT on the RDHCT Corridor would provide full-featured BRT service including dedicated lanes, enhanced stations, and signal priority, allowing for faster travel times similar to RSC

WHAT IS RAPID STREETCAR (RSC)?

Rapid Streetcar is a streetcar with enhancements to improve capacity and performance including longer vehicles, faster operating speed, longer station spacing, and more extensive use of exclusive right-of-way



Toronto

Photo Courtesy of Toronto Transit
www/photos/510_4400_2014_12_07a.jpg

SIMILARITIES BETWEEN RSC & BRT




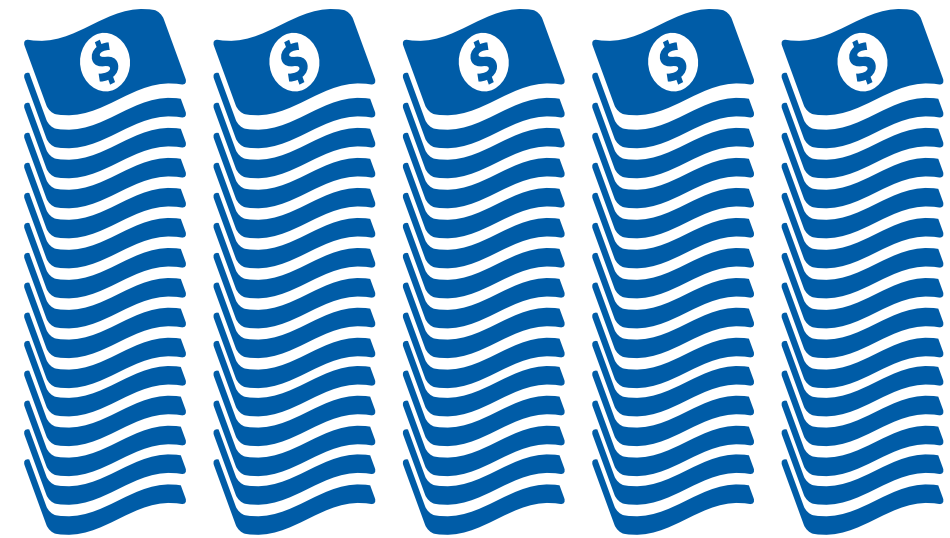
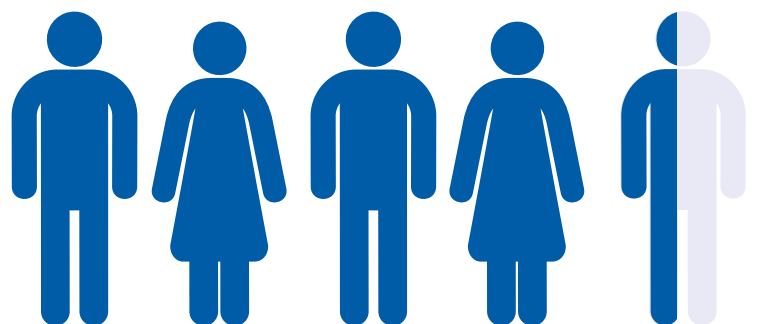
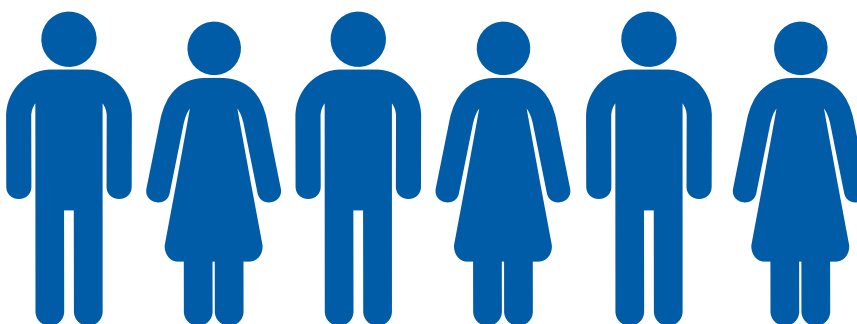
- **High Capacity** vehicles accommodate more patrons and have more doors than existing Metro buses
- Utilizes **Exclusive Traffic Lanes** and **Transit Signal Priority** to improve performance
- **Limited Stops** decreases running time
- **Boarding Area Amenities** such as **Real Time Bus Arrival Signs** create positive user experience
- Integrated **Street Design** that improves aesthetics and pedestrian movements
- **Prepaid Boarding, Level Boarding,** and **Wide Doors** ensure efficient boarding and alighting
- Runs on electric-catenary lines for **Efficient Operation** and **Low Carbon Footprint**



Seattle Department of Transportation

DIFFERENCES BETWEEN RSC & BRT

(INDUSTRY STANDARDS)

	BRT	RSC	DIFFERENCE	ADVANTAGE
Annual Operating Cost	 \$ 9-11 million	 \$ 12-15 million	~\$3.5 million	BRT
Per Mile Capital Costs	 \$ 10-50 million / mile	 \$ 50-100 million / mile	\$ 40-50 million / mile	BRT
Peak Hour Capacity	 2,400	 3,000	600	RSC

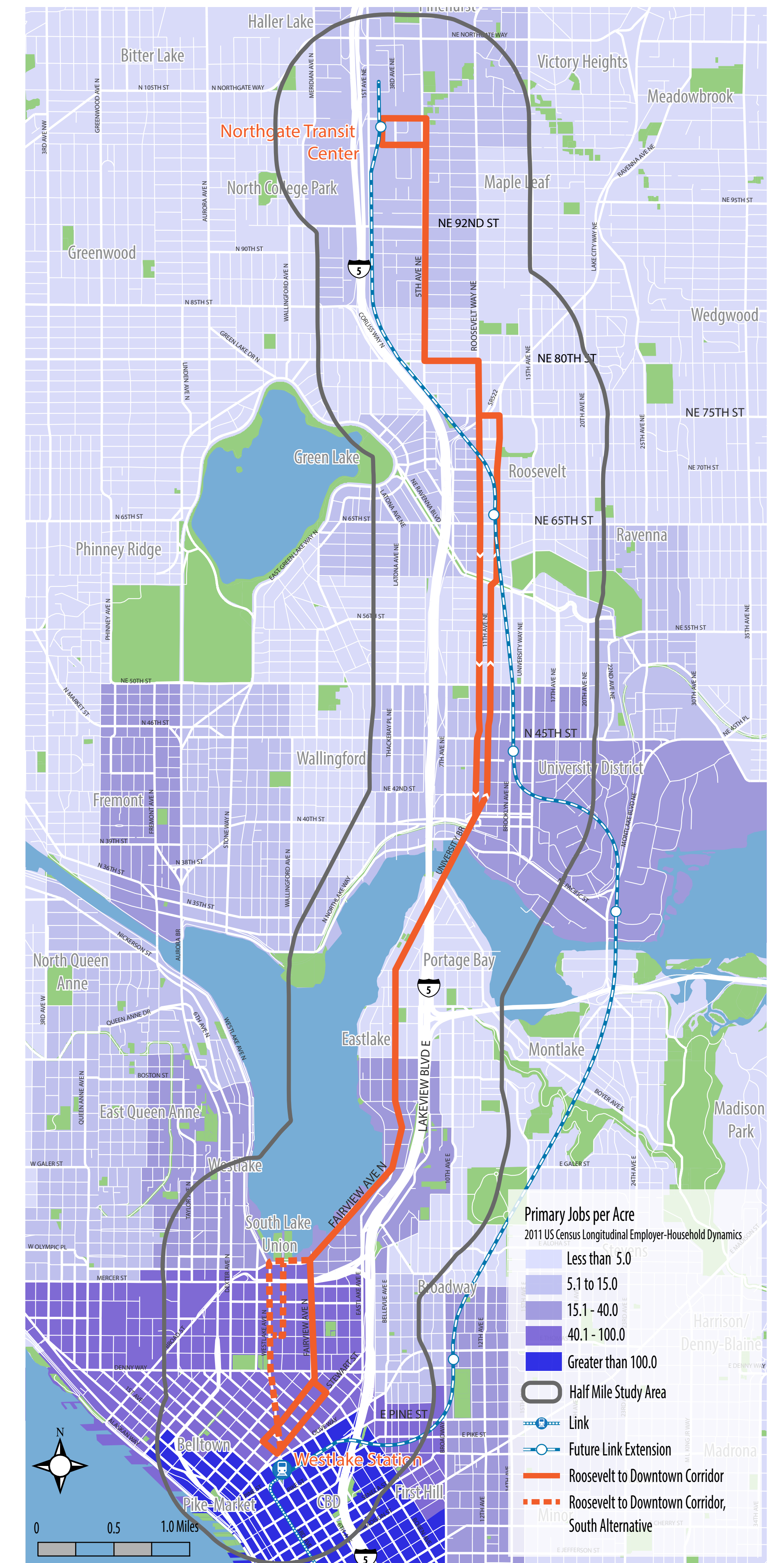
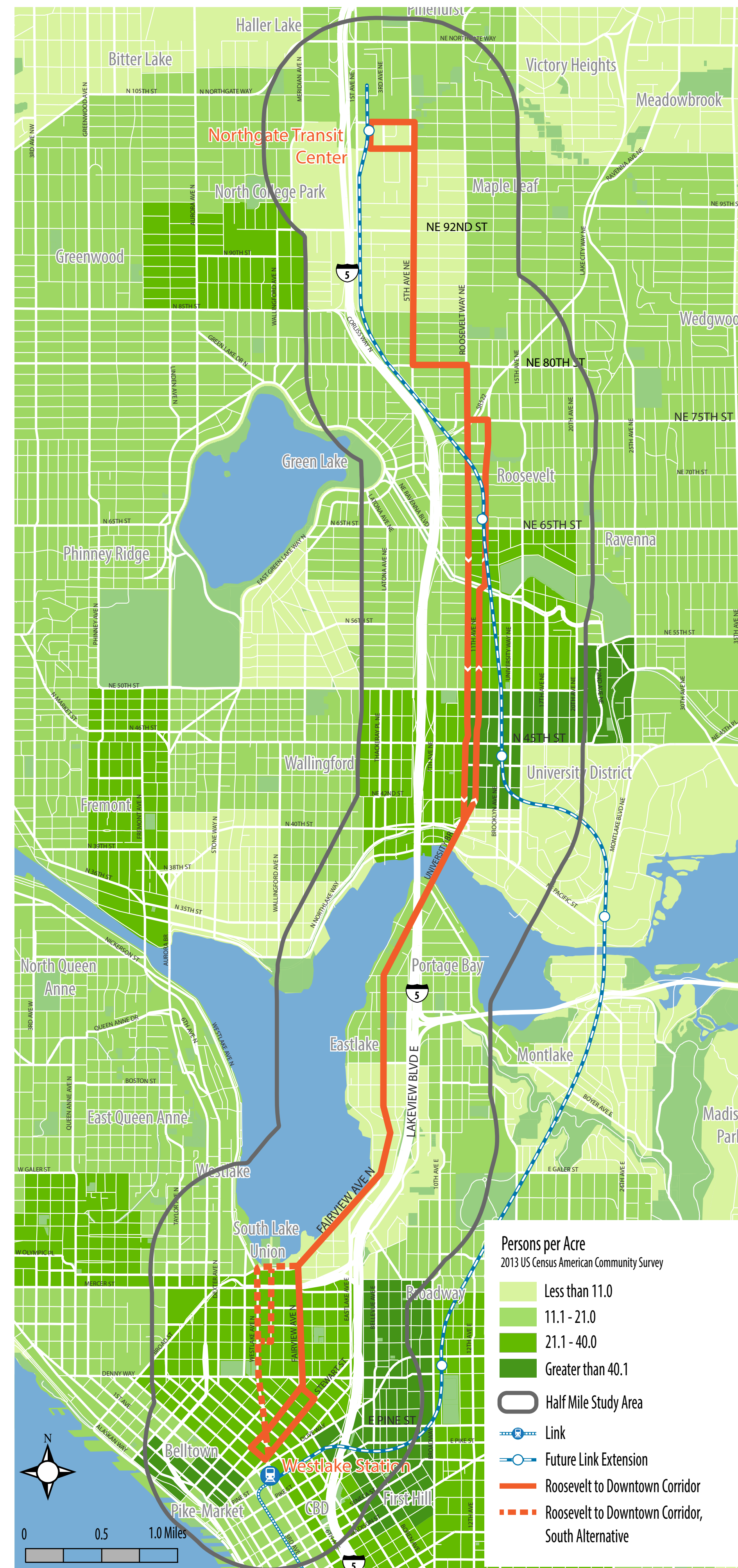
COMPARISON OF MODE ALTERNATIVES

	BRT Unique Advantage	RSC Unique Advantage	Overall Advantage
Vehicles	More availability and increased flexibility	Higher capacity	BRT
Fuel/Power	Brief 'off-wire' use possible	N/A	BRT
Stations	Higher service interoperability	N/A	BRT
Service	Greater frequency, reliability, and flexibility	Higher passenger capacity	BRT
Ridership	N/A	Higher expected ridership	RSC
Transit Experience	N/A	Greater ride comfort	RSC
Impacts to Other Modes	Greater interoperability with existing modes	Less wear on asphalt	BRT
Project Phasing	Smaller minimum segments	N/A	BRT
Construction	Simpler construction	N/A	BRT
Land Use	Less exterior noise and vibration	Spurs greater development	RSC
Costs	Significantly lower capital costs	Slightly lower operating costs	BRT

EXISTING POPULATION AND EMPLOYMENT

	Corridor	City
Population	95,000	625,000
Youth %	23%	13.5%
Senior %	9%	11%
Low Income %	20%	14%
Employed Residents	60,000	355,000
Households with No Vehicle	29%	8.5%

Corridor jobs: 168,000 in 2011

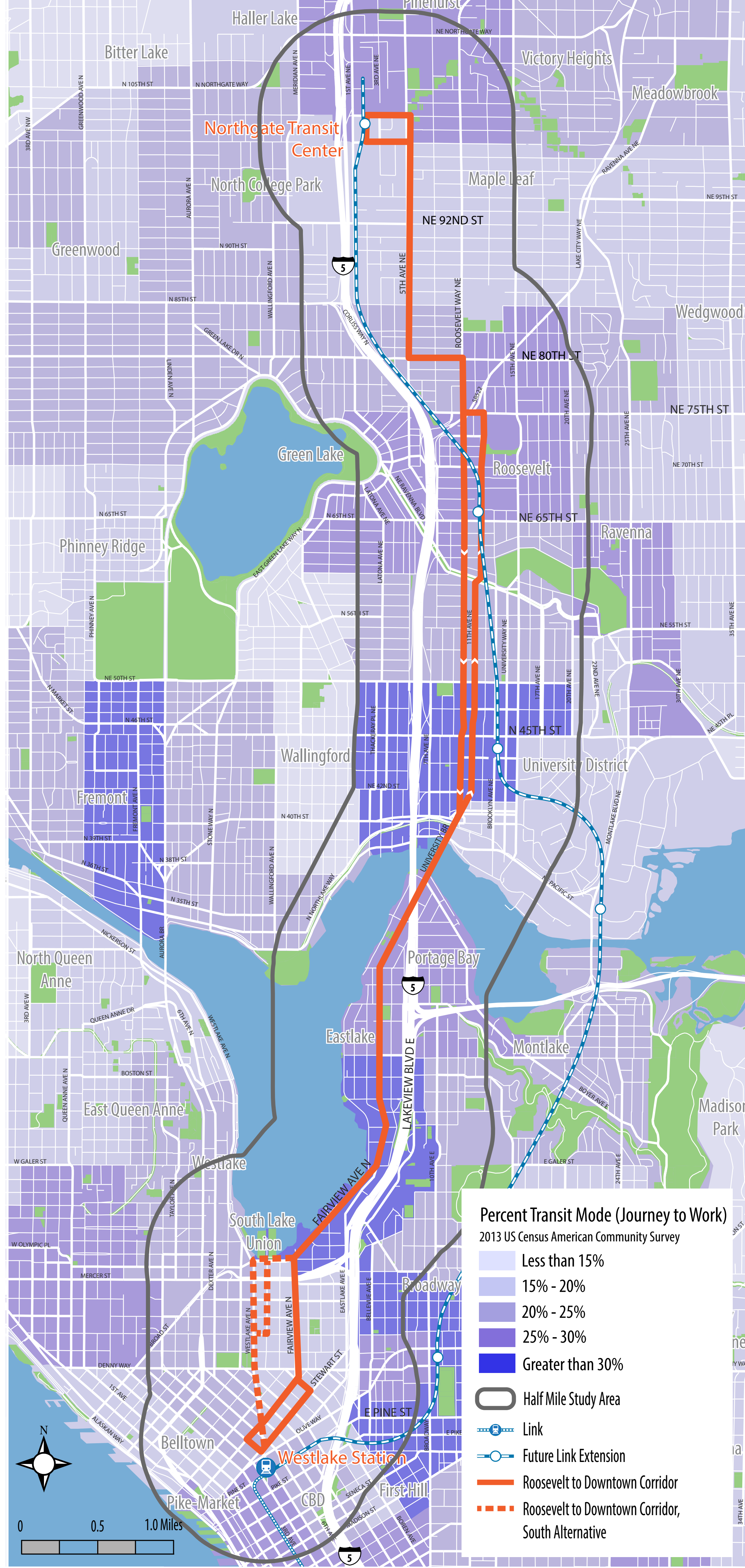
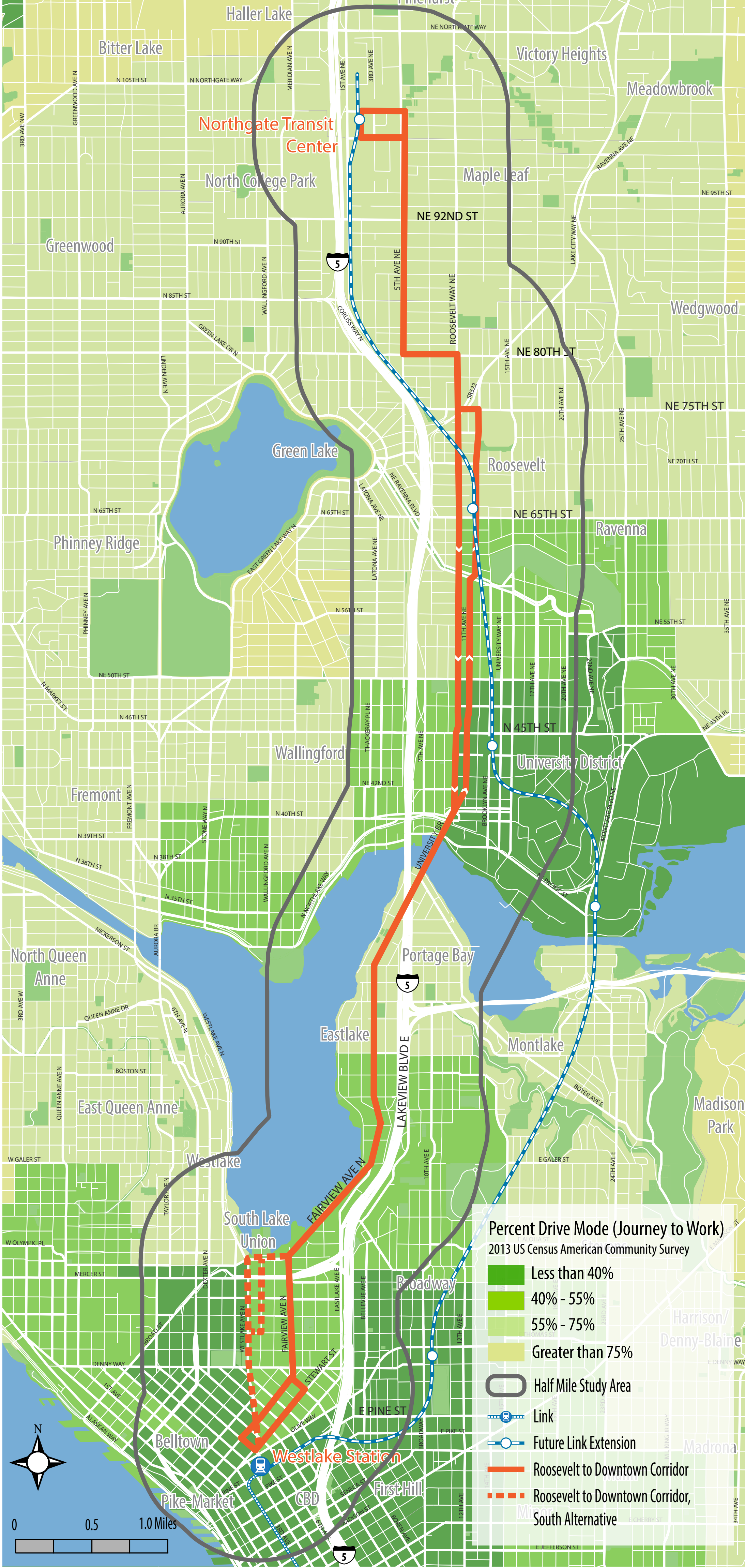


PROJECTED POPULATION AND EMPLOYMENT GROWTH



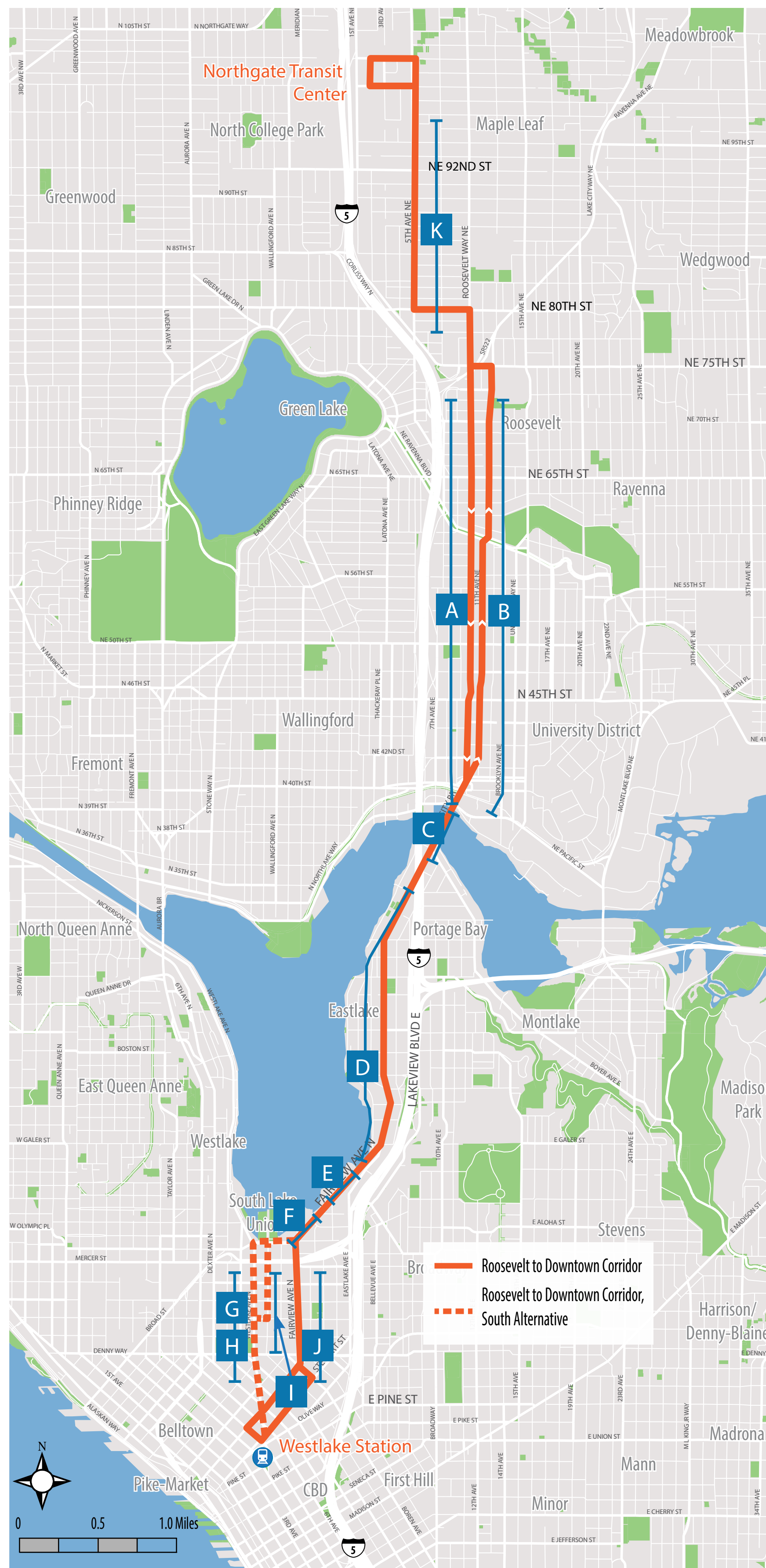
MODE SHARE

Mode Percent of Total Workers	Corridor	City
Drive Alone	39%	52%
Carpool	7%	9%
Public Transportation	23%	19%
Bicycle	4%	4%
Walked	20%	9%
Taxi, Motorcycle, Work from Home, Other	7%	8%

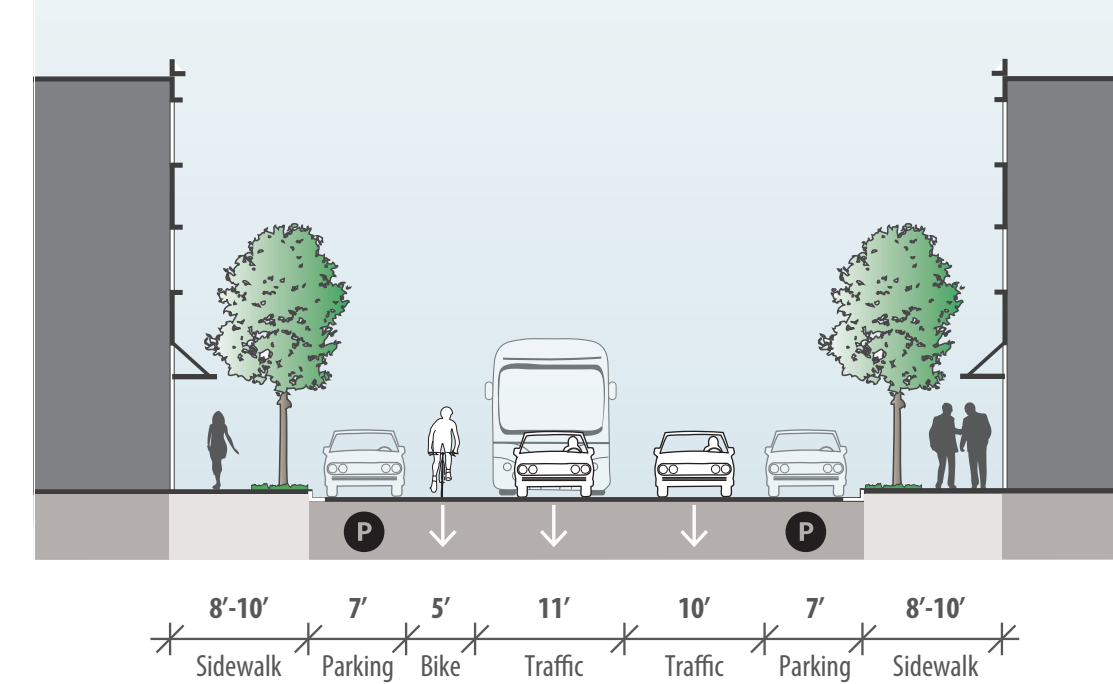


Seattle Department of Transportation

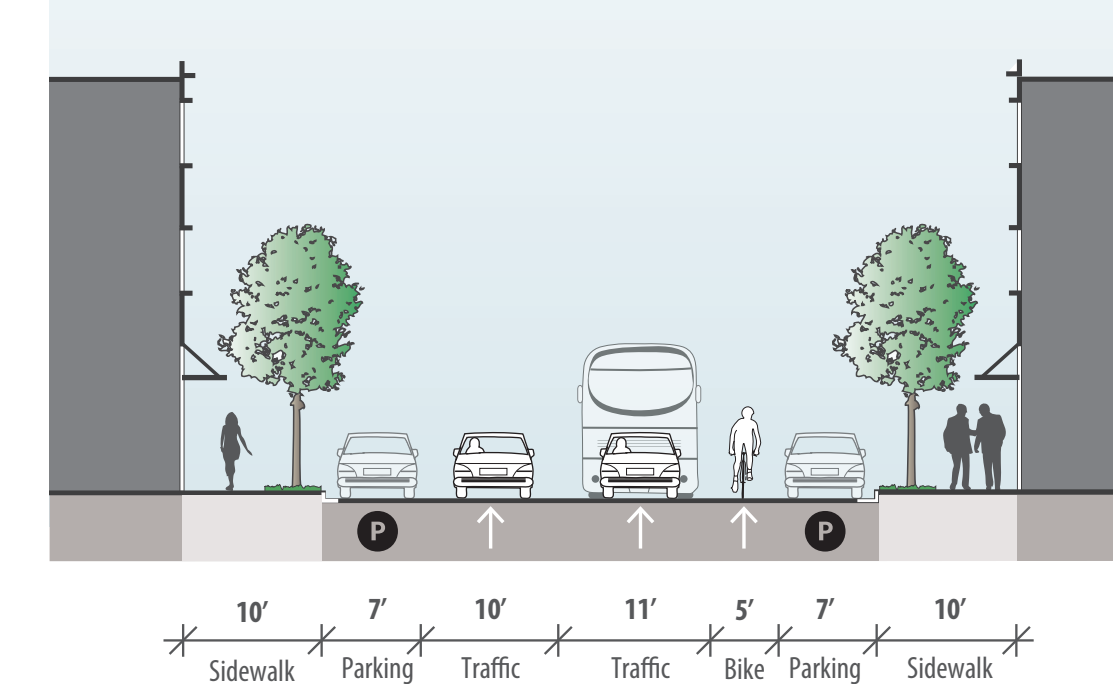
EXISTING ROADWAY CROSS SECTIONS



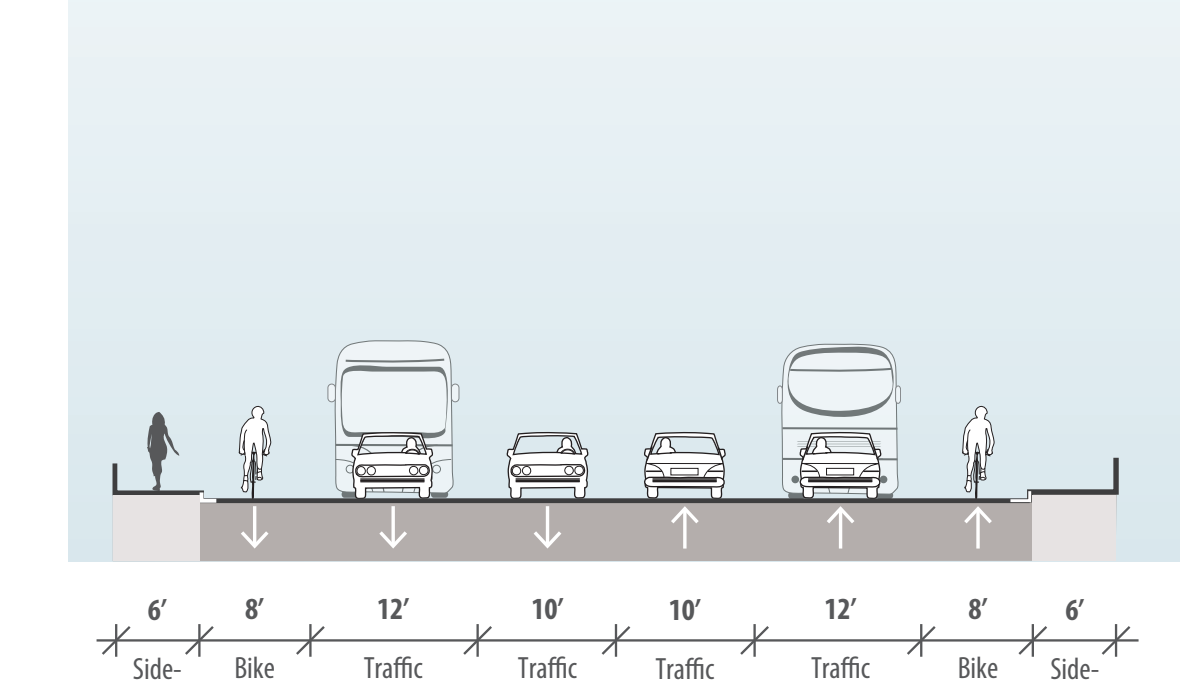
A Roosevelt Way NE, Southbound (40' Ctc, 56'-60' ROW)
From NE 42nd Street to 65th Street



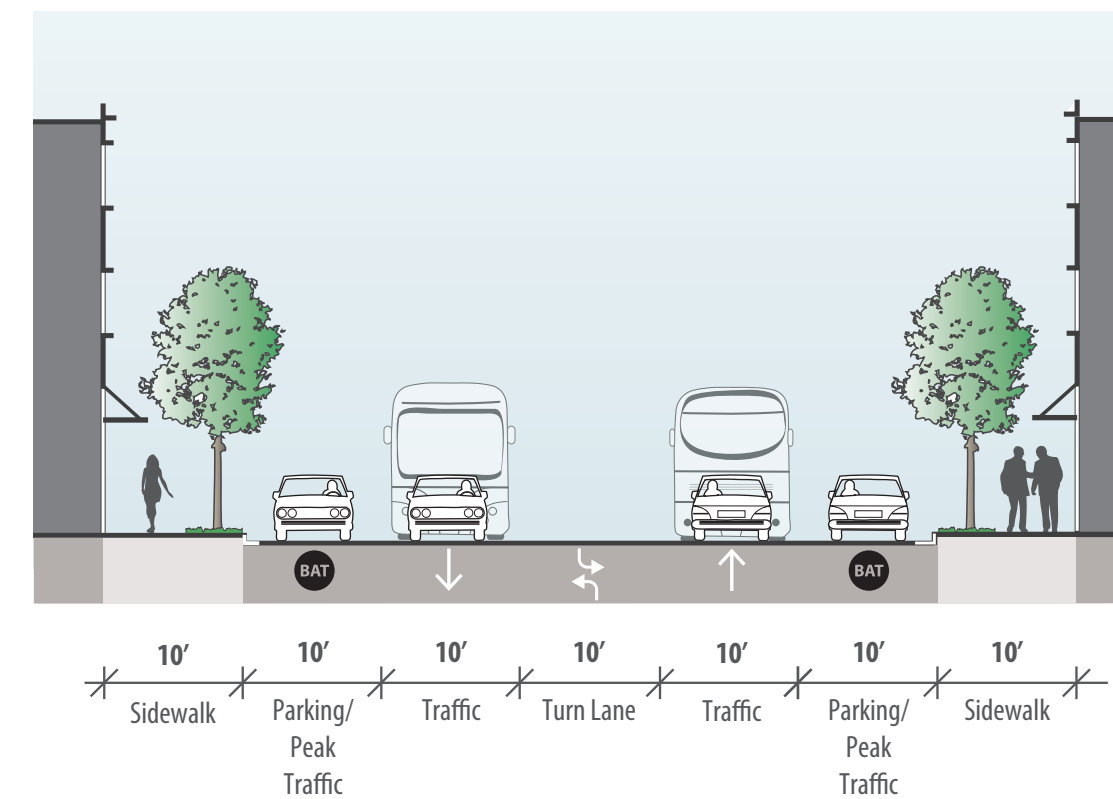
B 11th/12th Avenue NE Northbound (40' Ctc, 60' ROW)
From NE 42nd Street to 65th Street



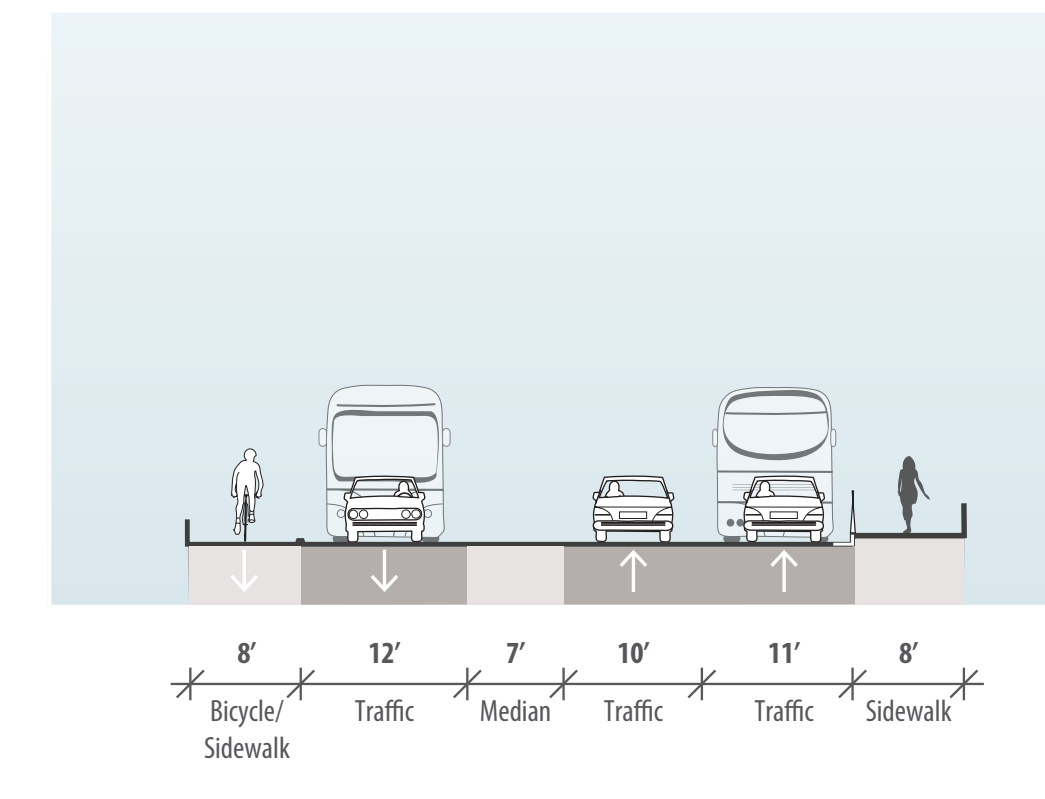
C University Bridge, Southbound Approach (60' Ctc, 72' ROW)
South of NE 40th Street



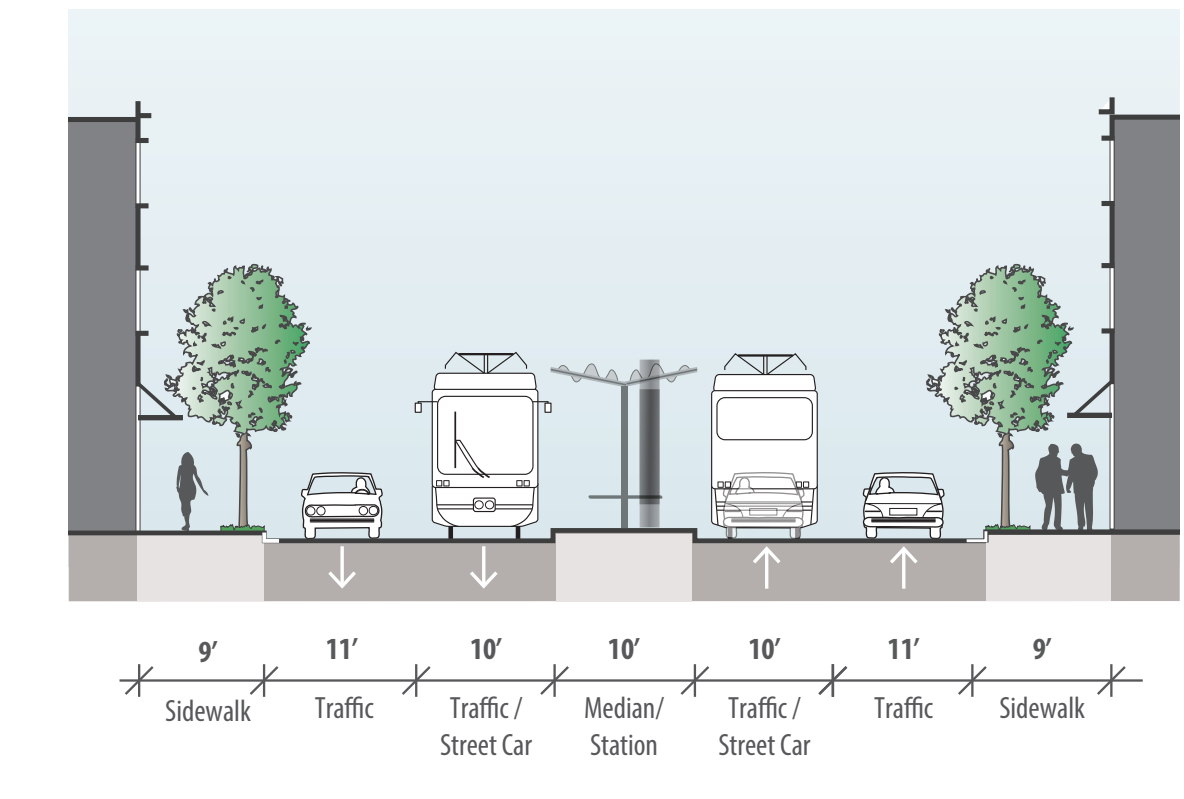
D Eastlake Avenue E (50' Ctc, 70' ROW)
From E Allison Street to Fairview Avenue E



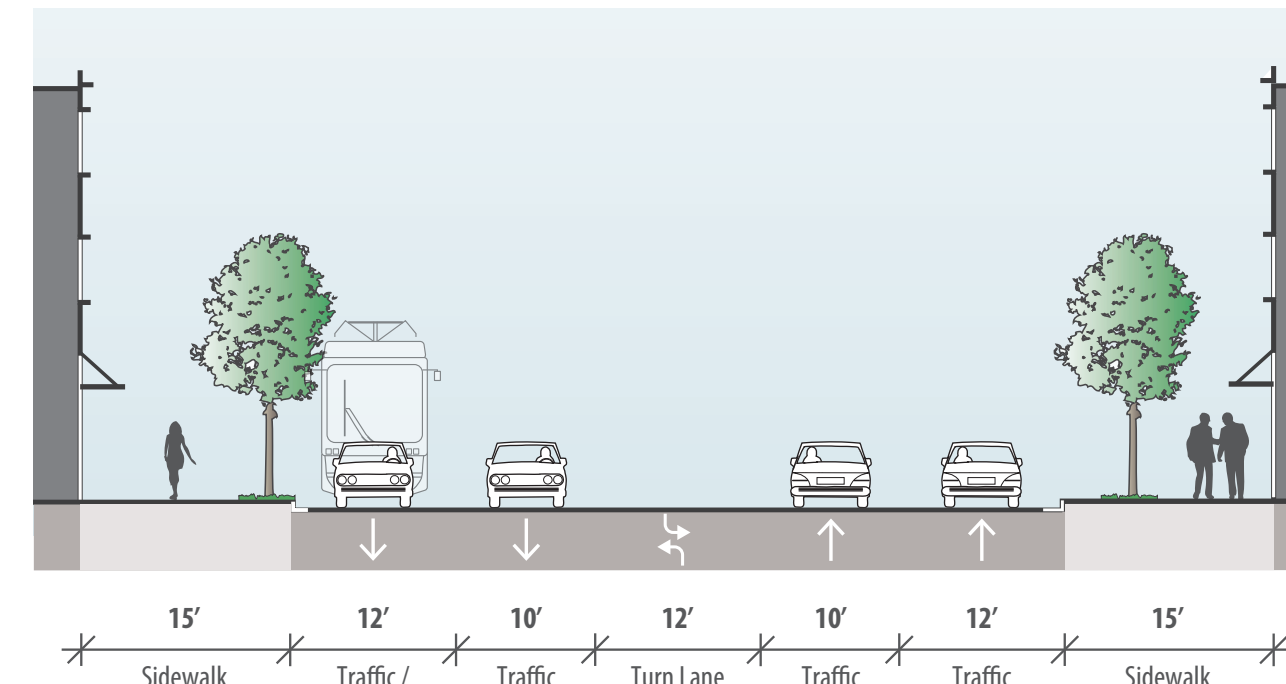
E Fairview Avenue N Bridge (40' Ctc, 56' ROW)
South of Eastlake Avenue E



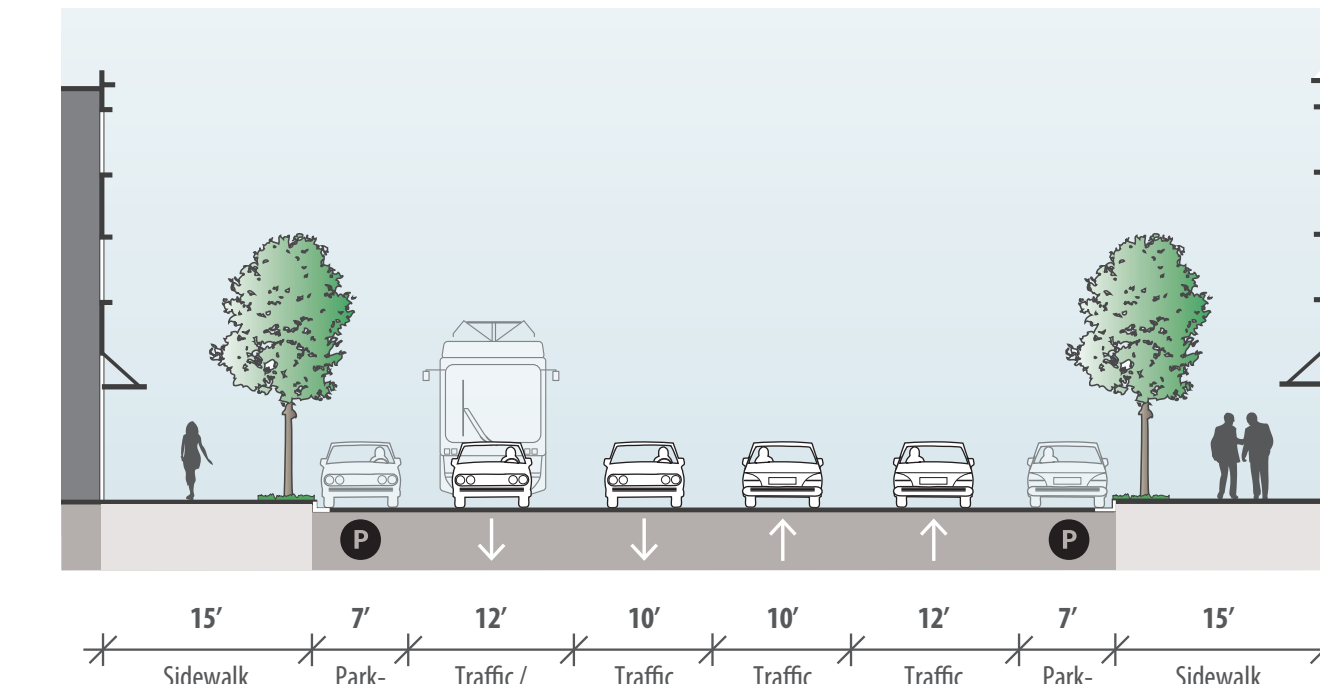
F Fairview Avenue N (50' Ctc, 70' ROW)
From Yale Avenue N to Valley Street



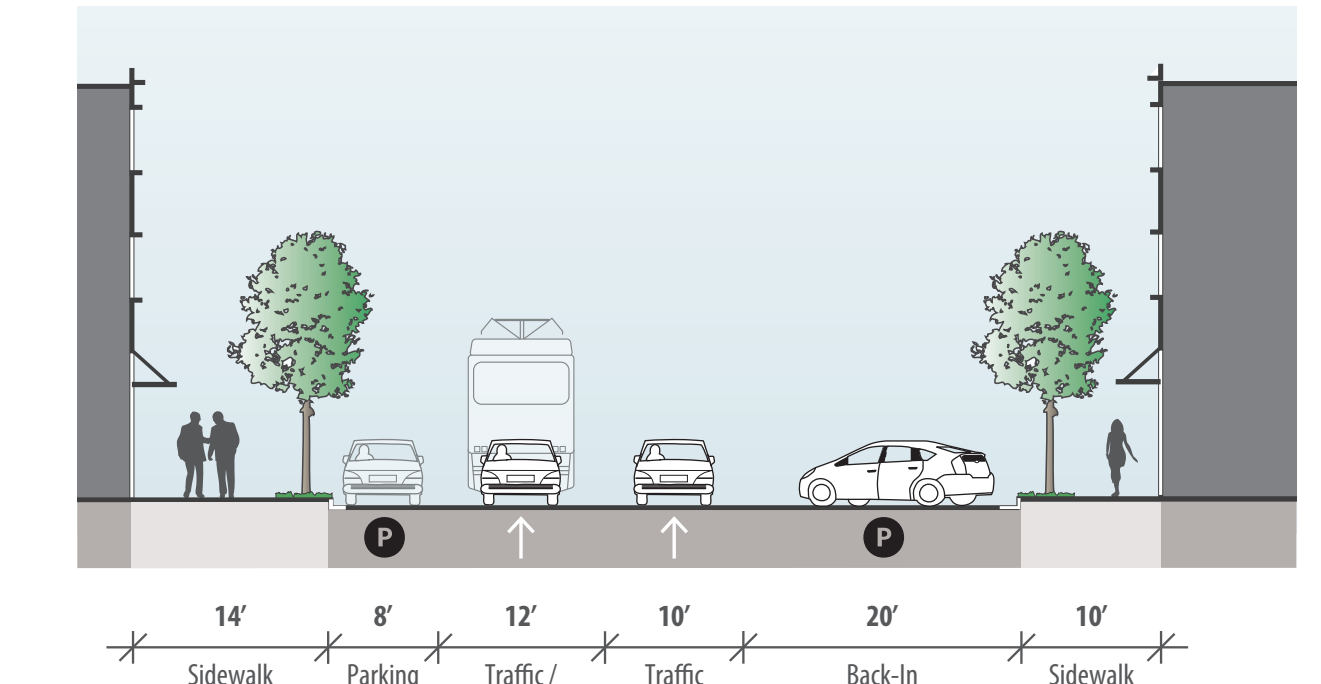
G Westlake Avenue N (58' Ctc, 88' ROW)
From Mercer Street to Harrison Street



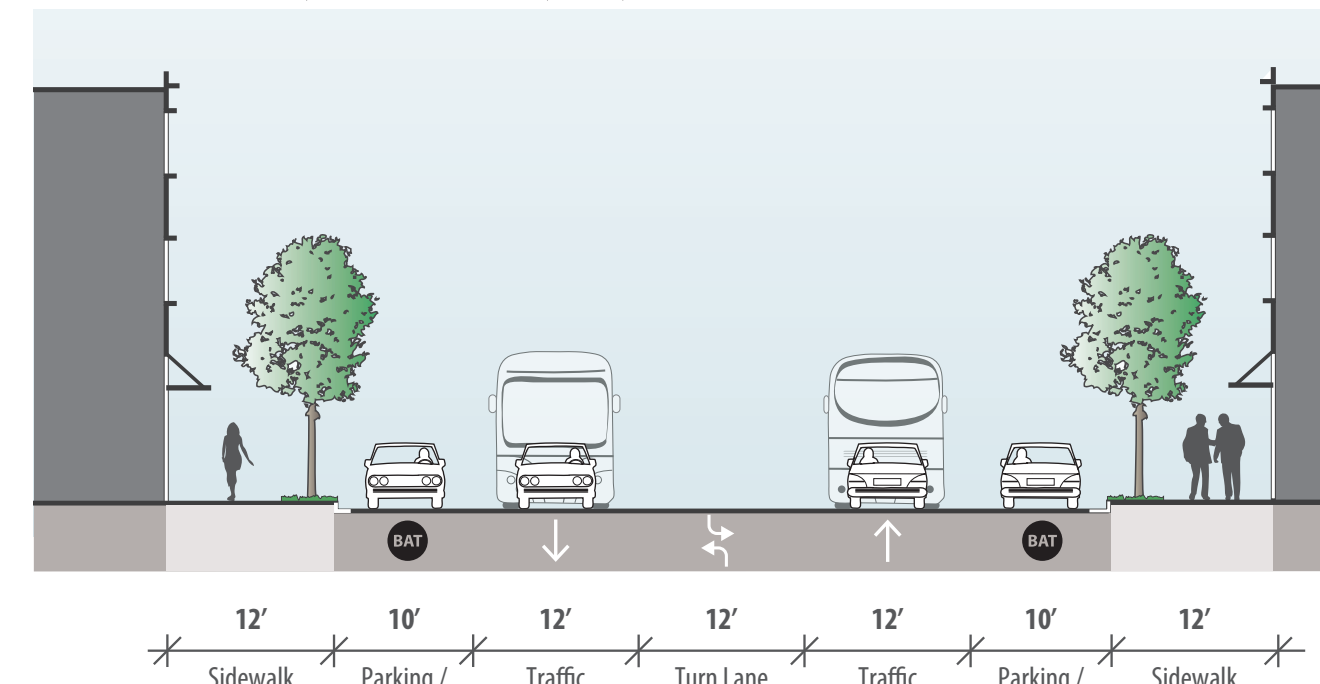
H Westlake Avenue N (58' Ctc, 88' ROW)
From Harrison Street to Denny Way



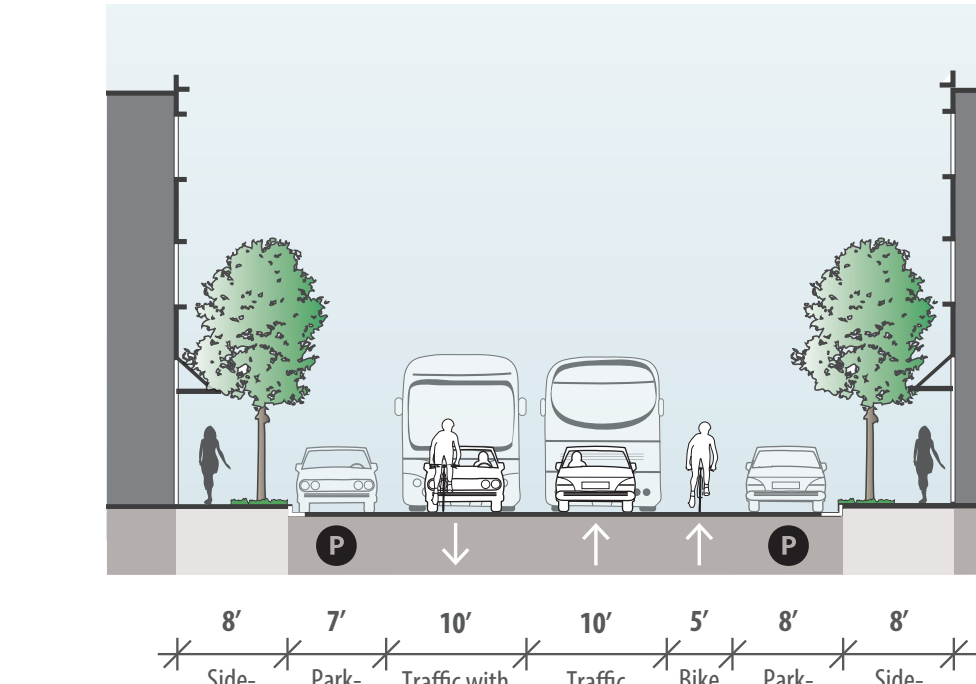
I Terry Avenue N (50' Ctc, 74' ROW)
From Valley Street to Denny Way



J Fairview Avenue N (56' Ctc, 80' ROW)
From Valley Street to Denny Way



K 5th Avenue NE (40' Ctc, 56' ROW)
From NE 80th Street to NE 92nd Street

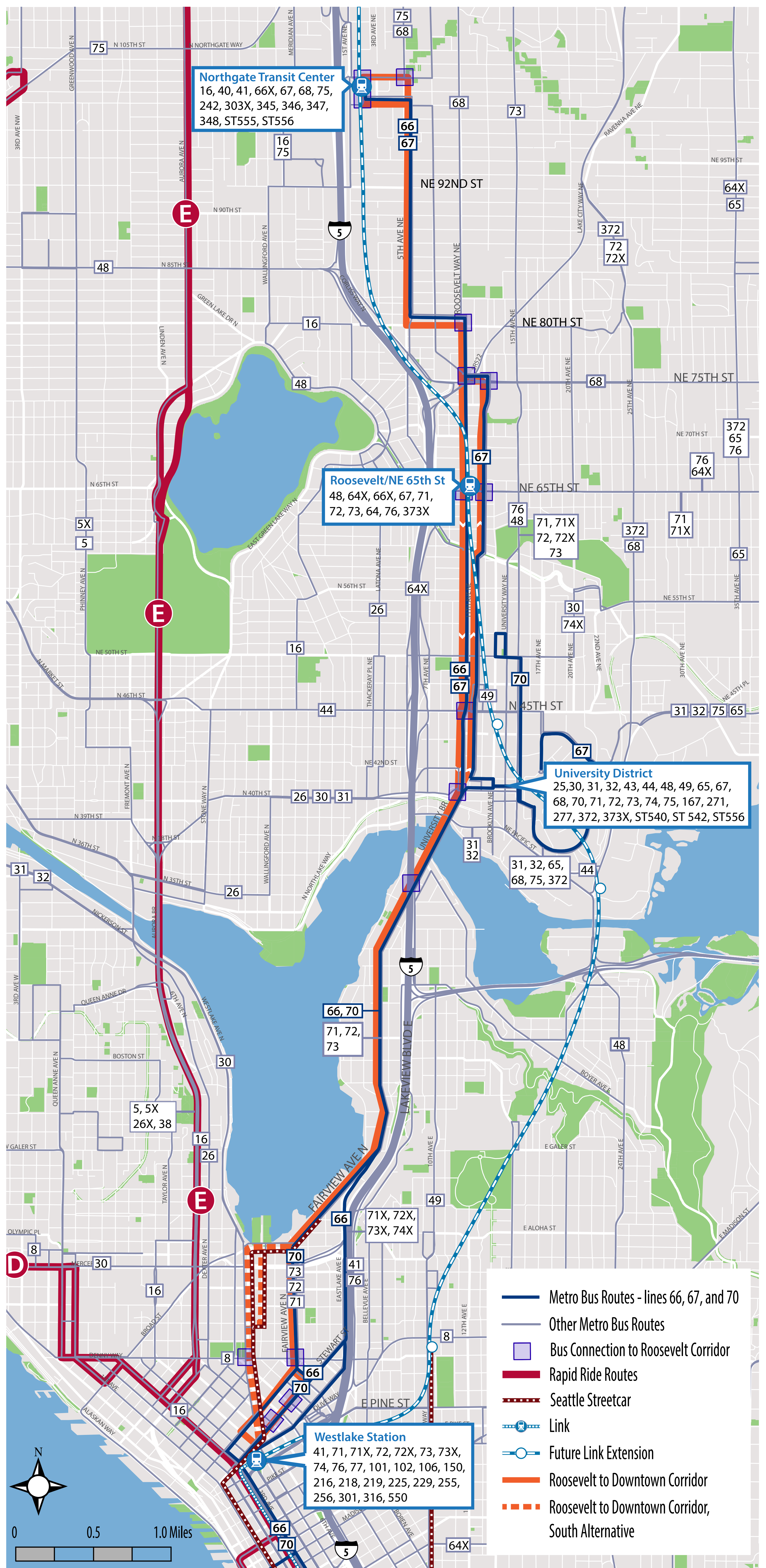


MAJOR BUS LINES

Three Metro bus routes operate along portions of the corridor:

Routes 66 (Express), 67, and 70

- 66/67: Northgate TC to Roosevelt to University District to Downtown Seattle
- 70: University District to Eastlake to Downtown Seattle
- Combined frequency 5-10 minutes during weekday peak periods



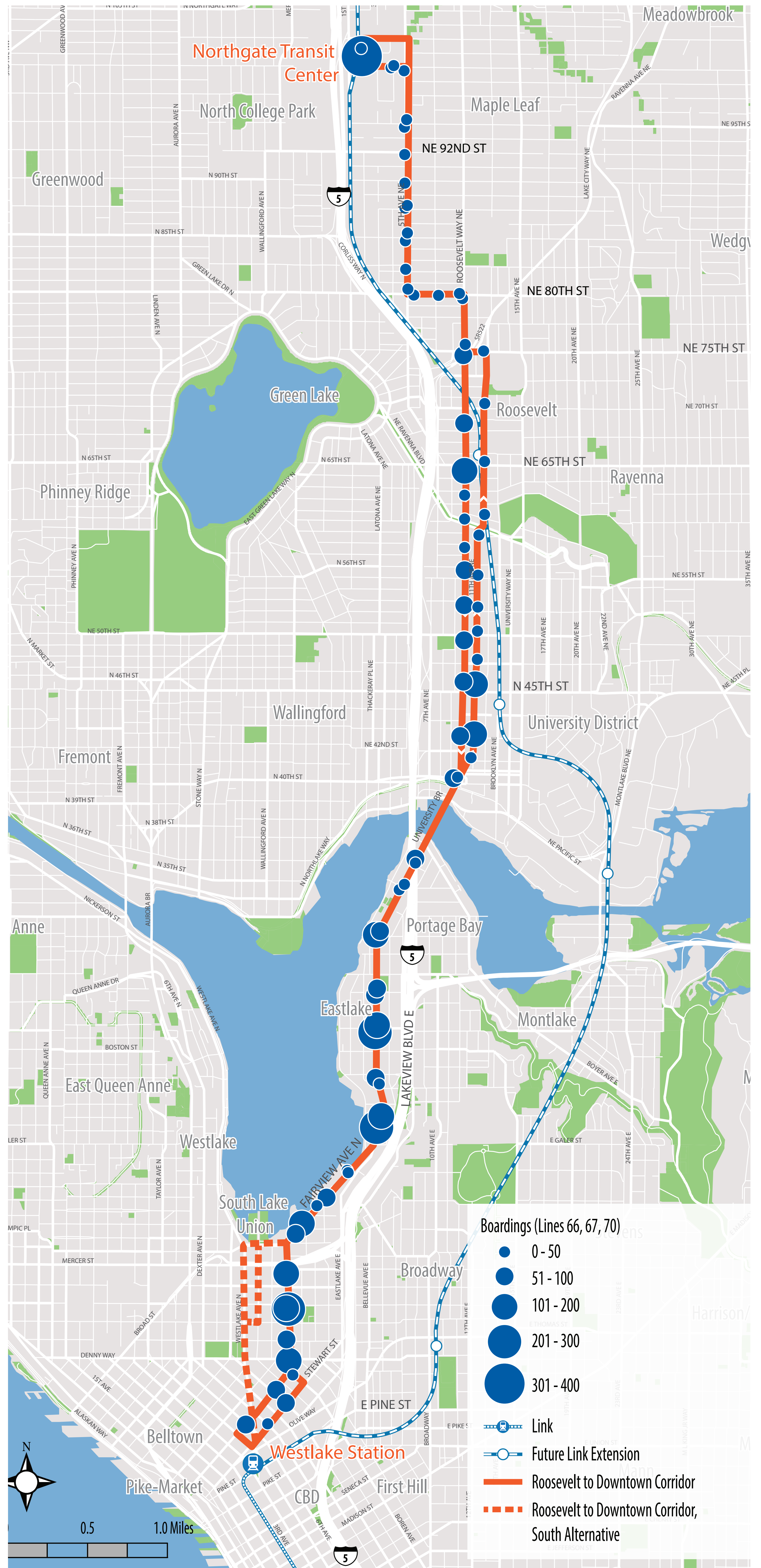
CURRENT TRANSIT RIDERSHIP

Route	Average Weekday Boardings*
66	2,274
67	1,344
70	4,653

* Represents boardings for entire route, not only stops along RDHCT Corridor

Top 3 Stops for Boardings

- Northgate TC
- NE Campus Pkwy & 12th Ave NE
- Eastlake Ave E & E Lynn St



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TRAFFIC VOLUMES

- Average weekday traffic volumes vary between 6,600 and 28,000 vehicles
- Highest volumes at the University Bridge



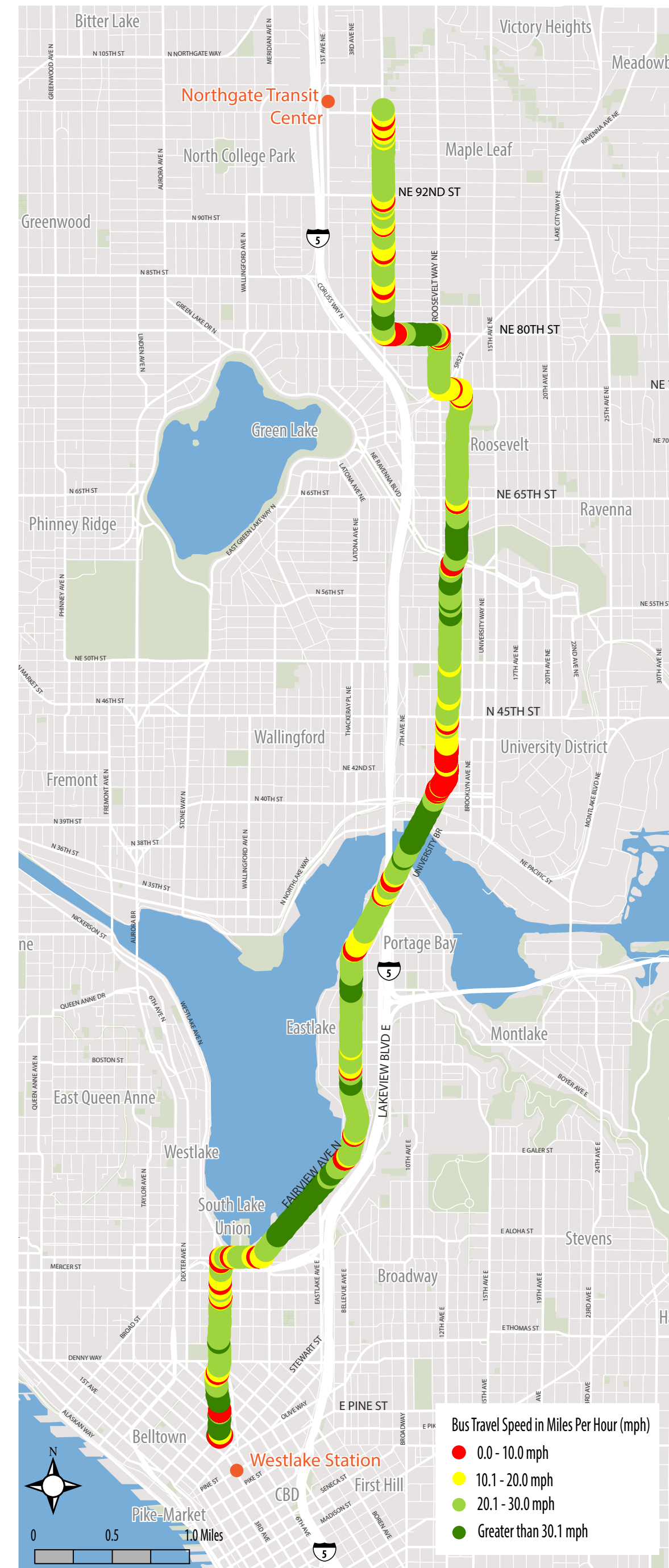
CORRIDOR TRAVEL TIMES

WEEKDAY PM PEAK PERIOD

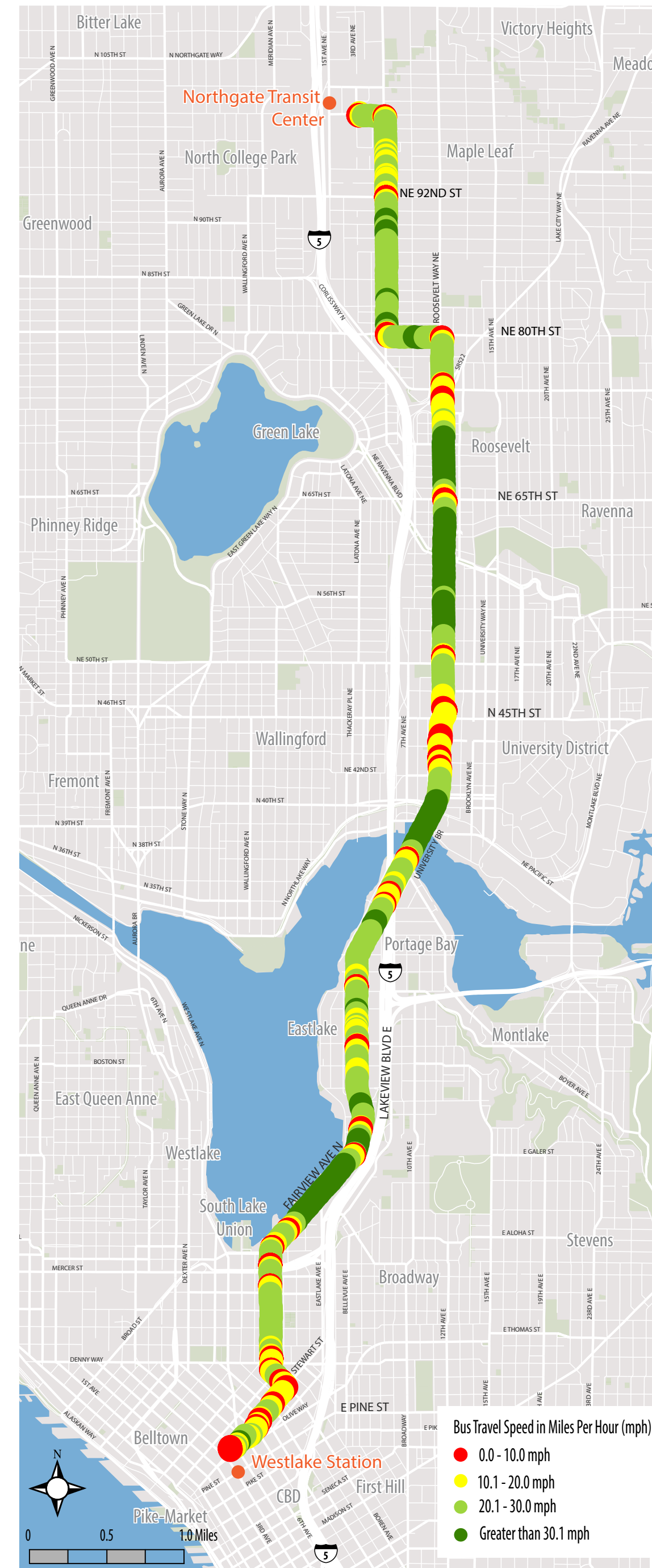
- Free flow travel time is about 20 minutes to travel the 7-mile corridor
- Congestion occurs predominantly during the PM peak hours, in both directions
- Travel times can reach or exceed 1 hour during congested periods
- By bus, traveling the entire corridor takes 1 hour or more

BY CAR

Northbound

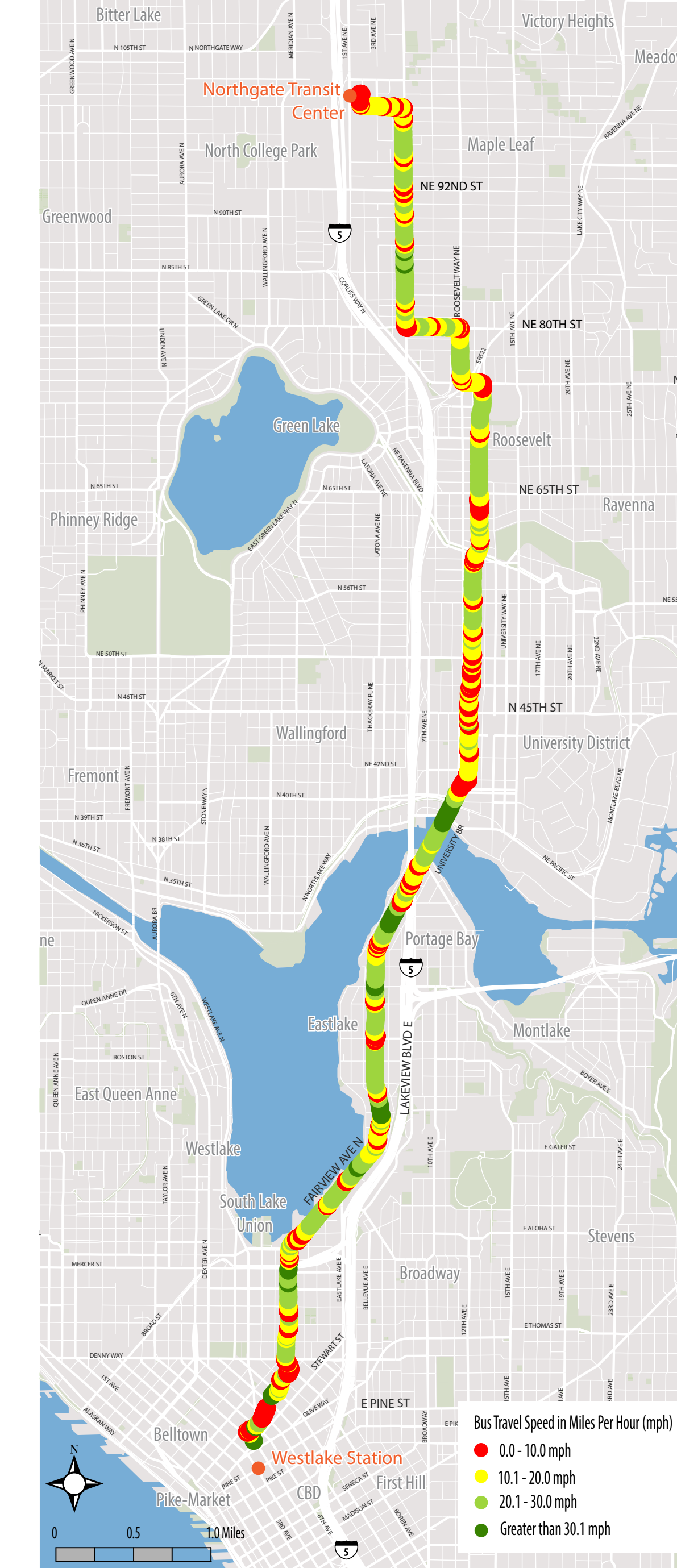


Southbound

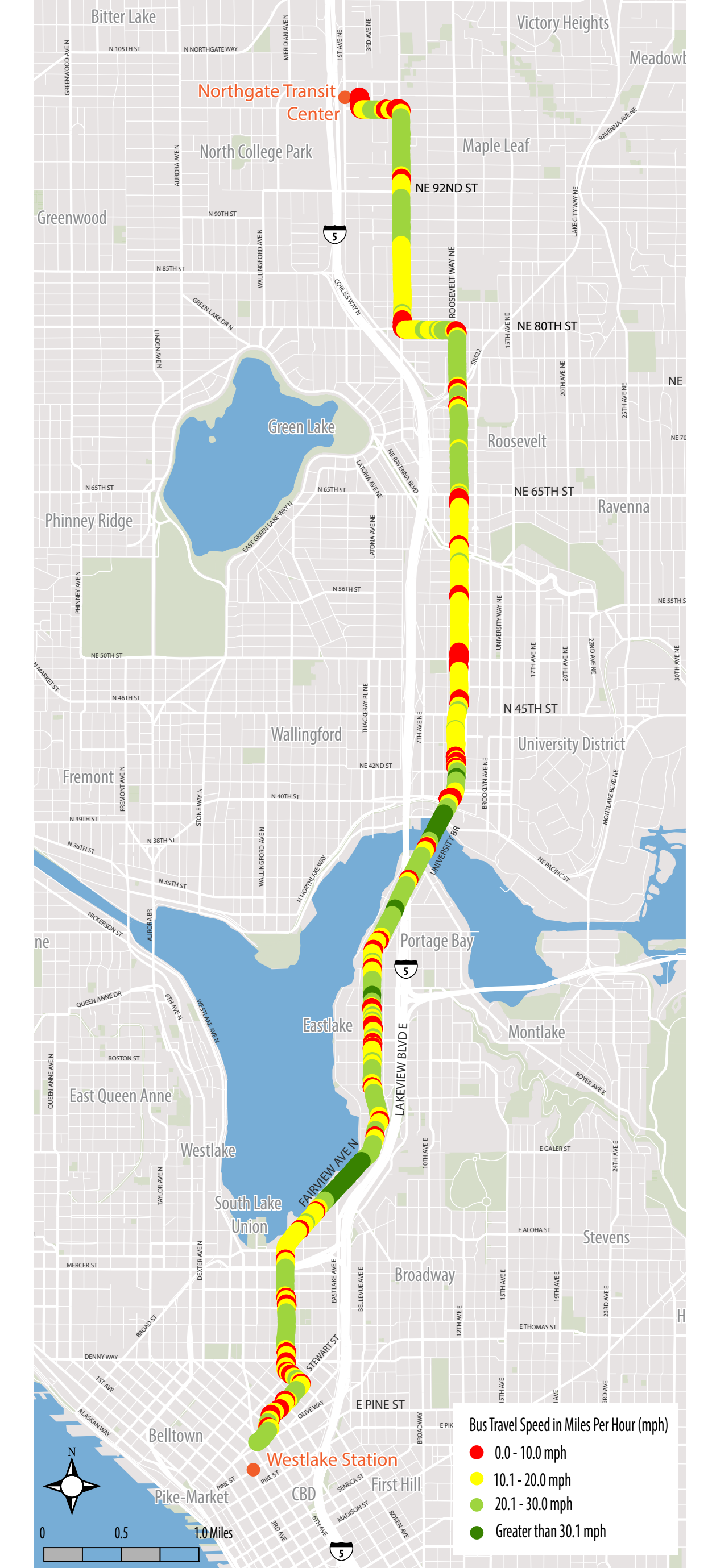


BY BUS

Northbound



Southbound



Avg Speed (mph)	Car	Bus
Northbound	11.8	7.9
Southbound	12.6	9.5

BICYCLE FACILITIES

SIDEWALK CONDITIONS

