

# I-405/NE 85th Street Interchange and Inline BRT Station Project

## **Kirkland Transportation Commission**

May 22, 2019

# Agenda

- Welcome and introductions
- Objectives
- Project overview
- Design development
- Design, access, and mobility
  - Funded elements
  - Unfunded elements
- Next steps
- Questions

# Objectives for tonight's meeting

- Provide recap of NE 85th Street interchange project progress to date
- Review previous outreach efforts and how WSDOT has responded to feedback
- Present design concepts incorporating previous outreach comments
- Collect additional feedback from commissioners

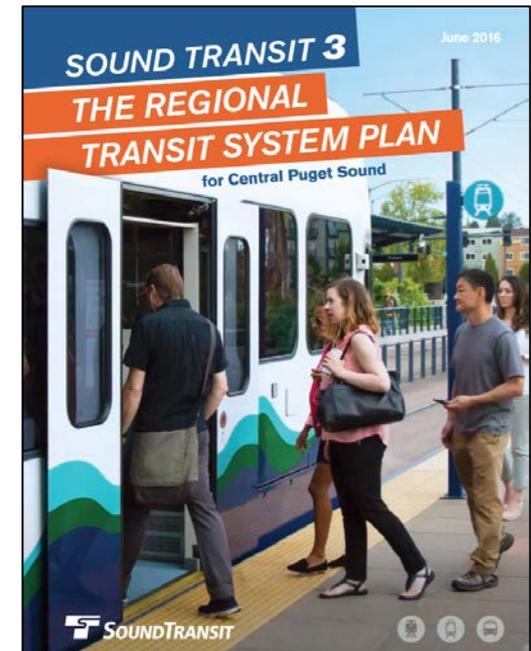
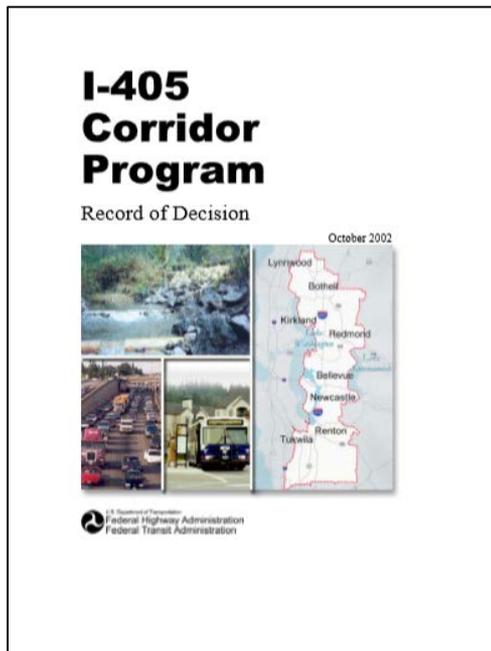
# PROJECT OVERVIEW

**Cynthia Padilla, AIA, LEED AP BD+C**  
I-405 BRT Project Manager  
Sound Transit

# I-405 transit planning

## I-405 Bus Rapid Transit builds upon the:

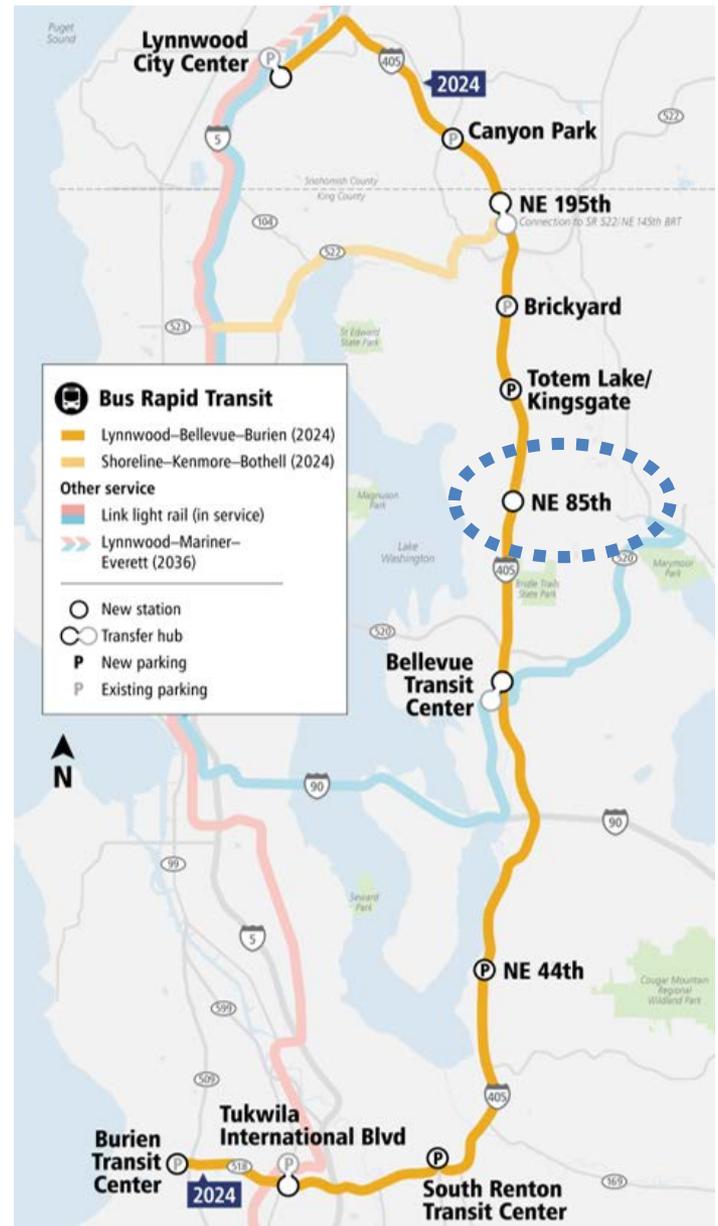
- I-405 Master Plan (2002)
- Sound Transit Long-Range Plan (2014)
- Sound Transit 3 Plan (2016)



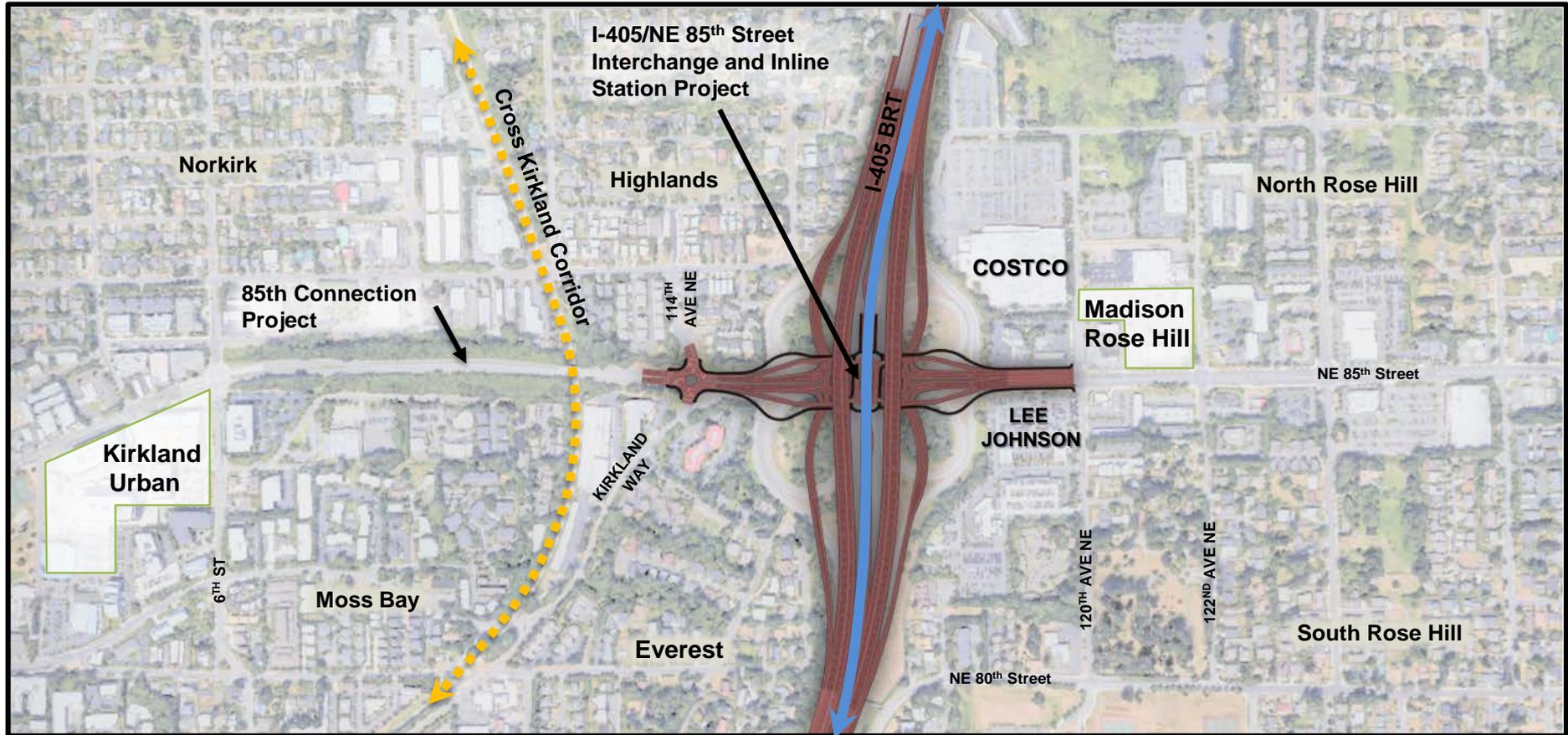
# I-405 Bus Rapid Transit

## I-405/NE 85th Street Interchange and Inline Station Project

- Stride BRT Station location adjacent to downtown Kirkland to the west and access to Redmond to the east
- WSDOT and Sound Transit began conceptual development in early 2018
- Sound Transit Board approved continued design development in December 2018
- Preliminary engineering in 2019



# Project coordination



# DESIGN DEVELOPMENT

**Barrett Hanson, PE**  
Engineering Manager  
WSDOT I-405/SR 167 Program

# I-405 Master Plan

## Regional Consensus

- EIS Record of Decision, 2002
- **Multimodal, multiagency plan**

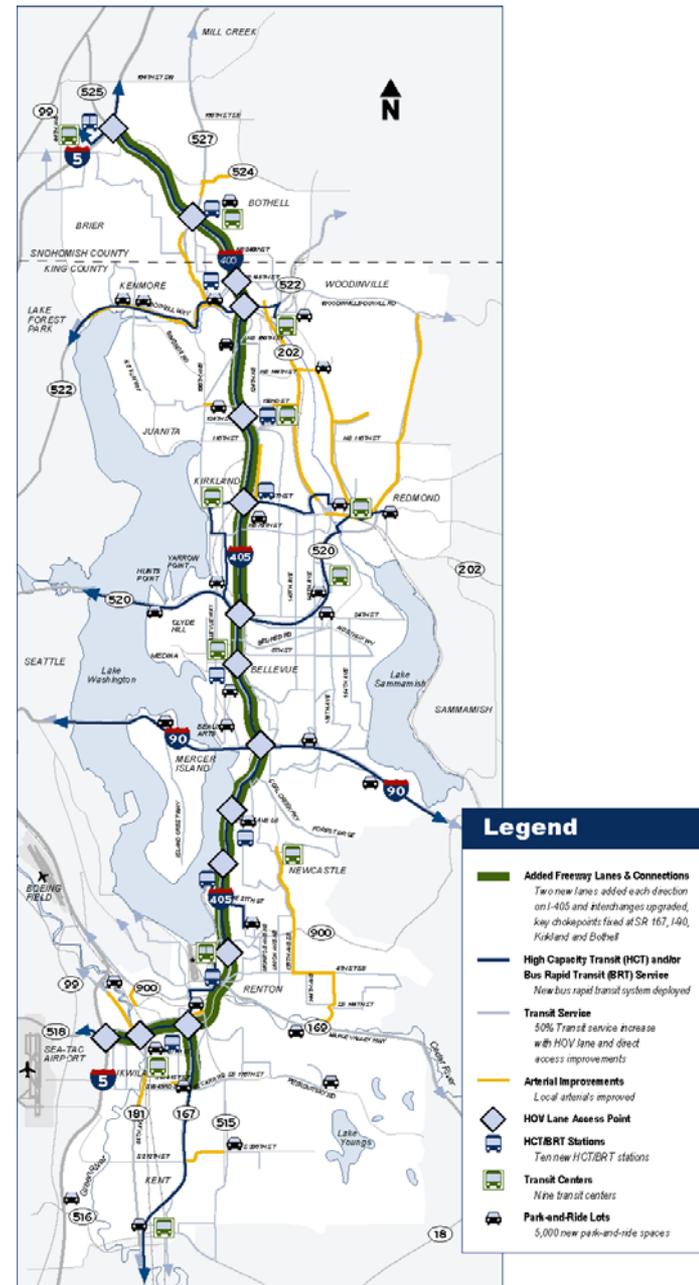
## Roadways

- Two new lanes in each direction
- Local arterial improvements

## Transit and Transportation Choices

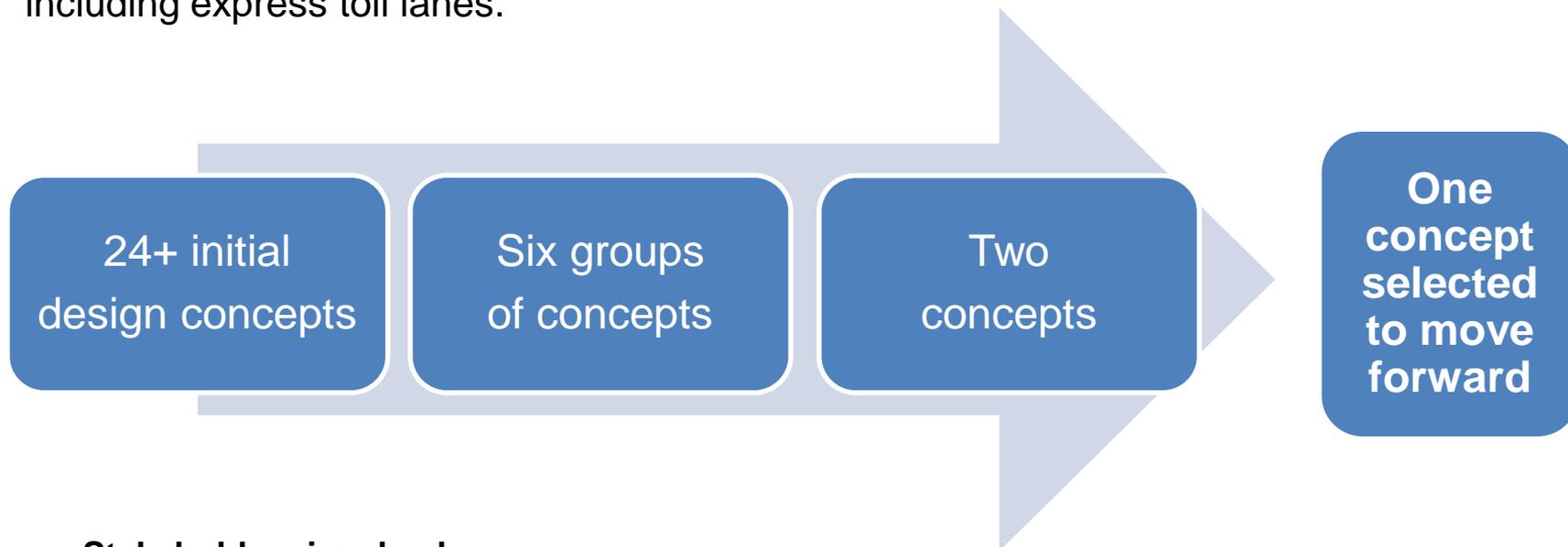
- Bus rapid transit system
- New transit centers
- 50 percent transit service increase
- HOV direct access ramps and flyer stops
- Managed lanes system
- 5,000 new park and ride spaces
- 1,700 new vanpools

## Environmental Enhancements



# Concept development process

**Statement of Need:** Multimodal connectivity between I-405 Bus Rapid Transit and the NE 85th Street corridor to fulfill the City of Kirkland's vision and the I-405 Master Plan, including express toll lanes.



## Stakeholders involved:

- City of Kirkland
- Federal Highway Administration
- Federal Transit Administration
- King County Metro
- Sound Transit
- WSDOT

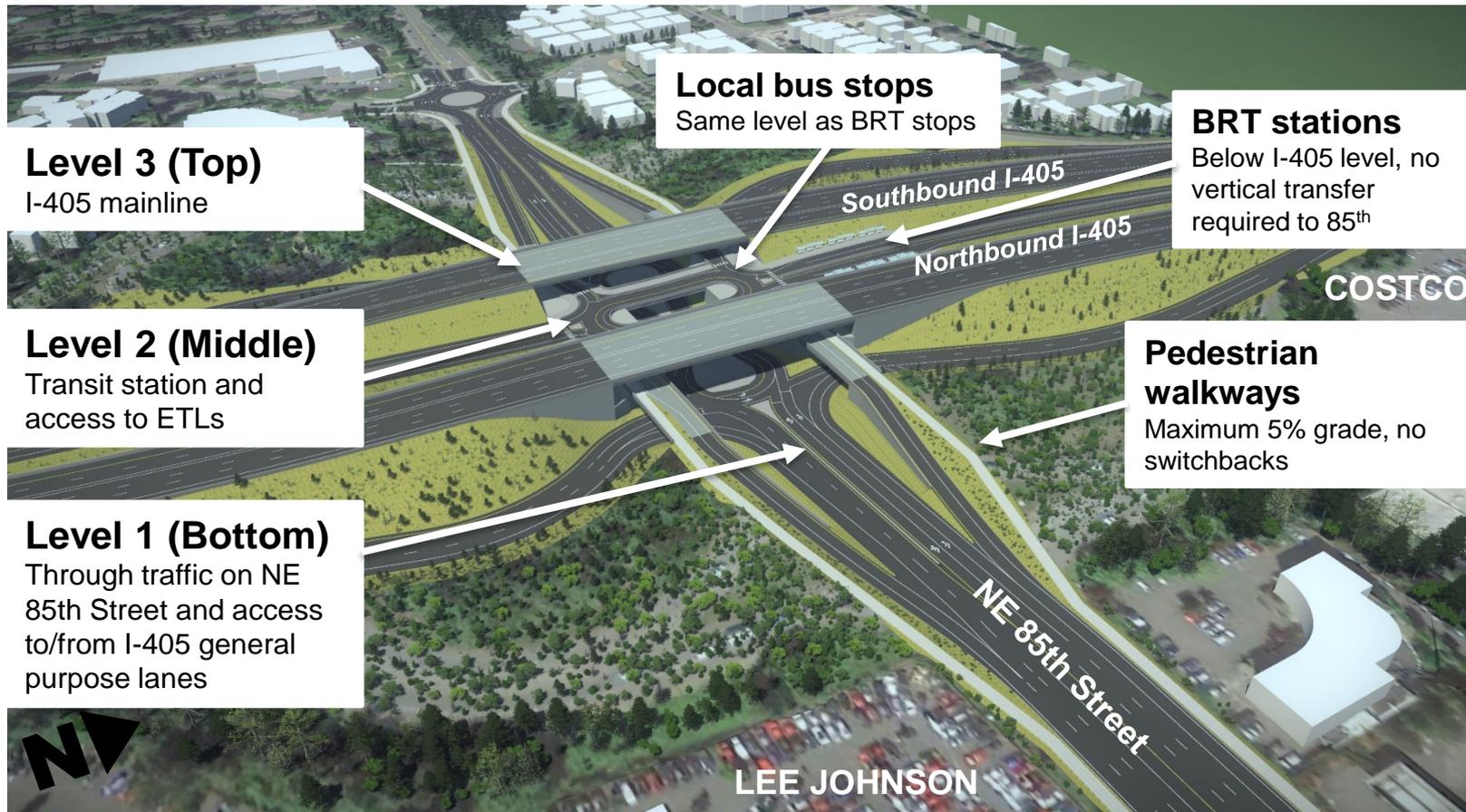
## Items of importance:

- Transit connectivity
- Nonmotorized mobility/connectivity
- Kirkland Vision
- Compatibility with master plans
- Vehicular traffic operations
- Cost

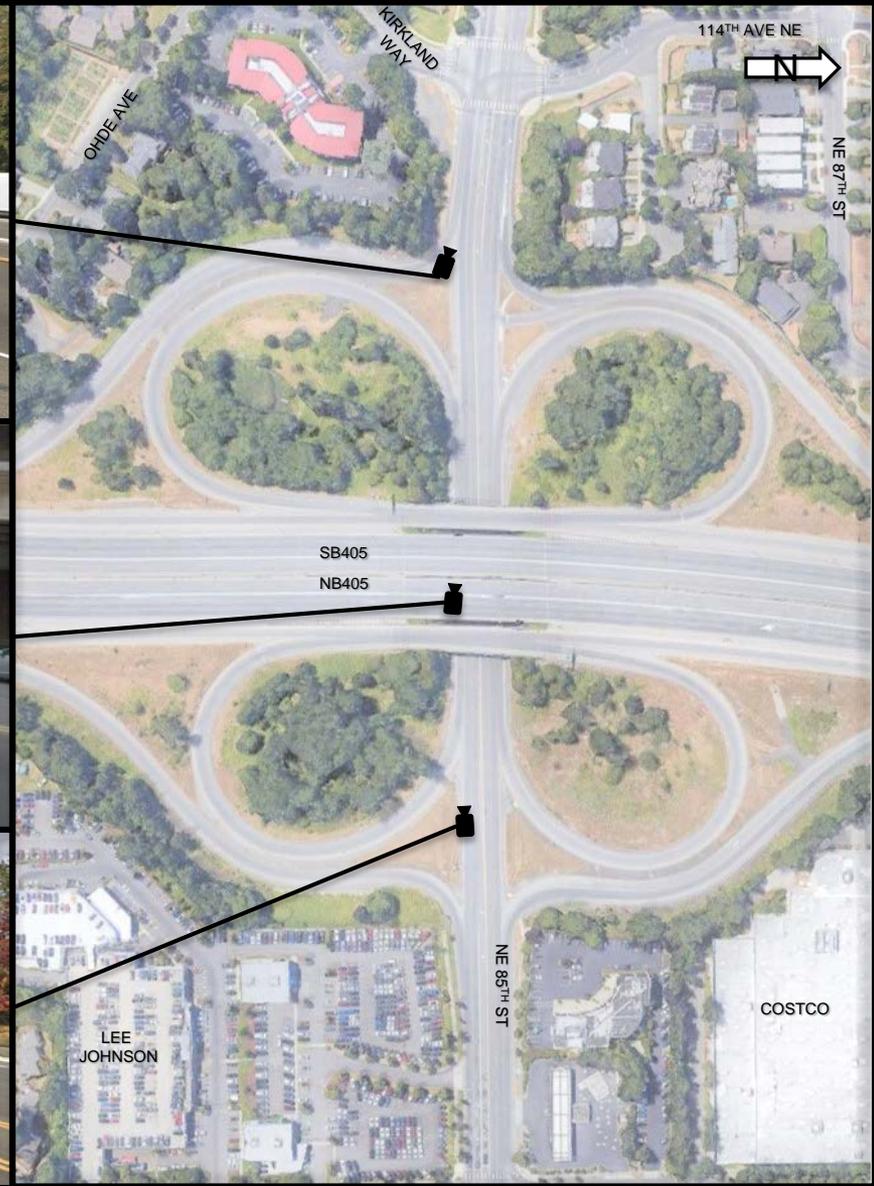
# I-405/NE 85th Street Interchange

## Project Description:

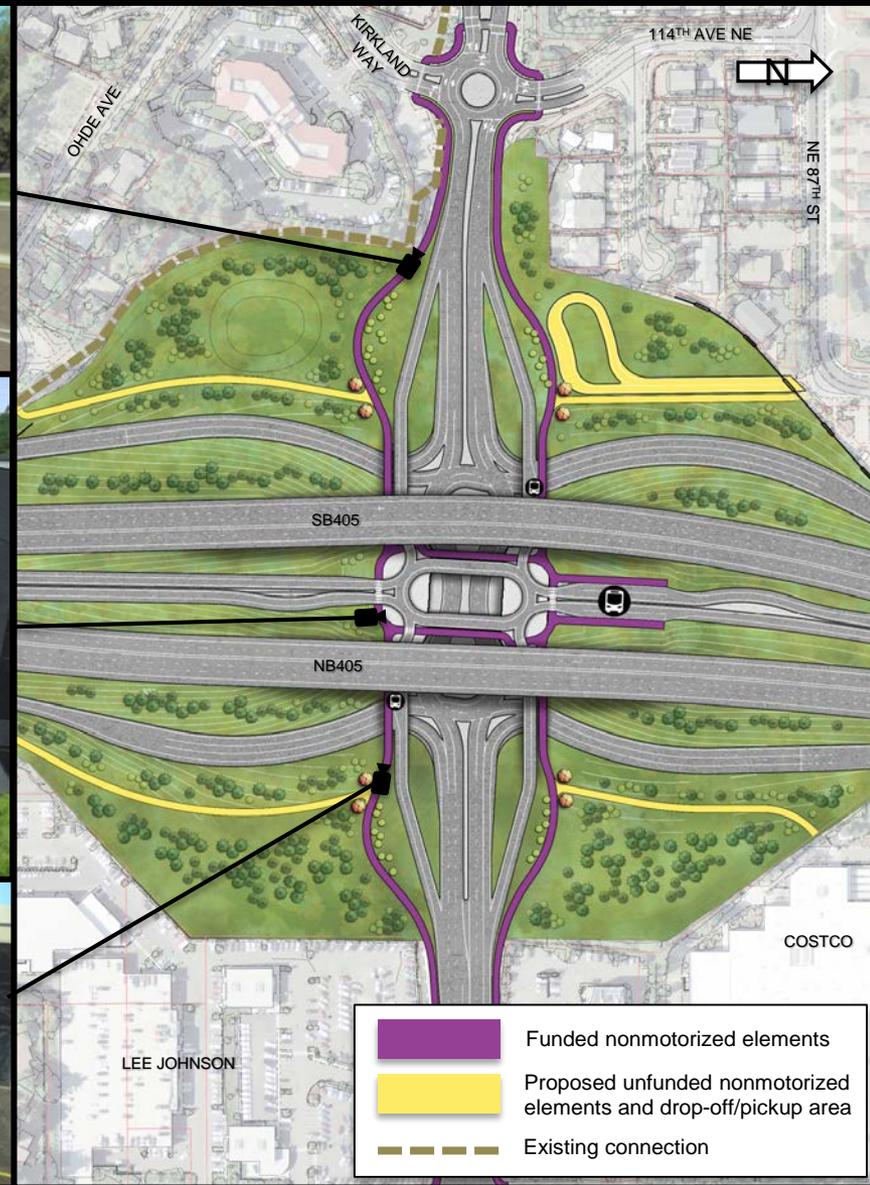
- Construct a three-level interchange with inline BRT station, direct access ramps to ETLs, and local roadway improvements
- Fully funded by Sound Transit



# Existing nonmotorized facilities



# Nonmotorized improvements



# I-405/NE 85th Street Interchange

Video



# Considerations identified by stakeholders

## **Motorized access and mobility issues**

- **Kiss and ride/drop-off facilities**
- Compatibility for automated/connected vehicles
- Existing local street traffic issues
- **Existing intersections at 114th and 120th Ave NE**
- Coordination with 85th bus only lanes

## **Nonmotorized access and mobility issues**

- BRT and local stop locations and design
- Bike parking facilities
- **Connections between inline station and Cross Kirkland Corridor, local streets, greenways**
- Urban design

# DESIGN, ACCESS, AND MOBILITY (FUNDED ELEMENTS)

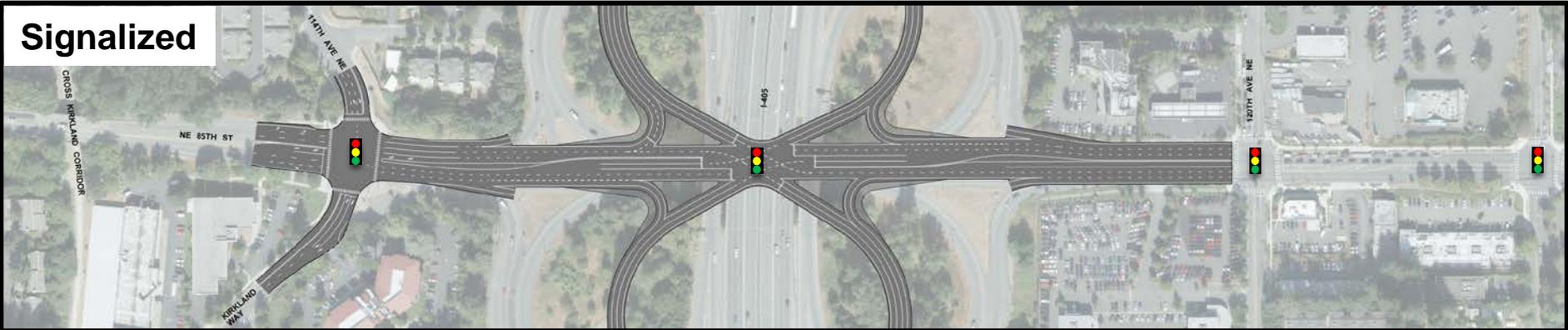
**Karl Westby, PhD**  
Traffic Engineering Manager  
WSDOT I-405/SR 167 Program

# Preliminary traffic study area

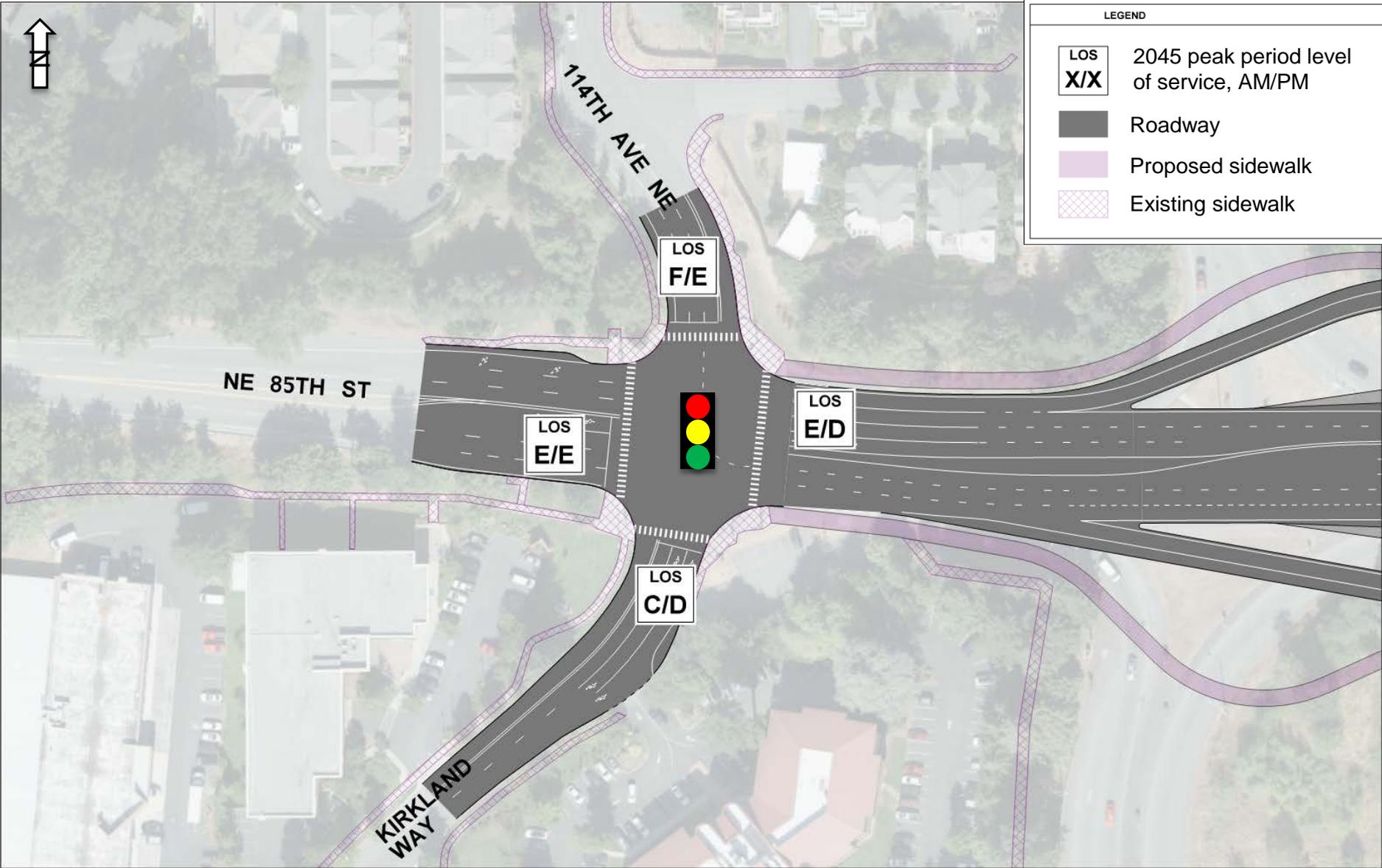


- Evaluated area-wide traffic impacts
- Changes were localized

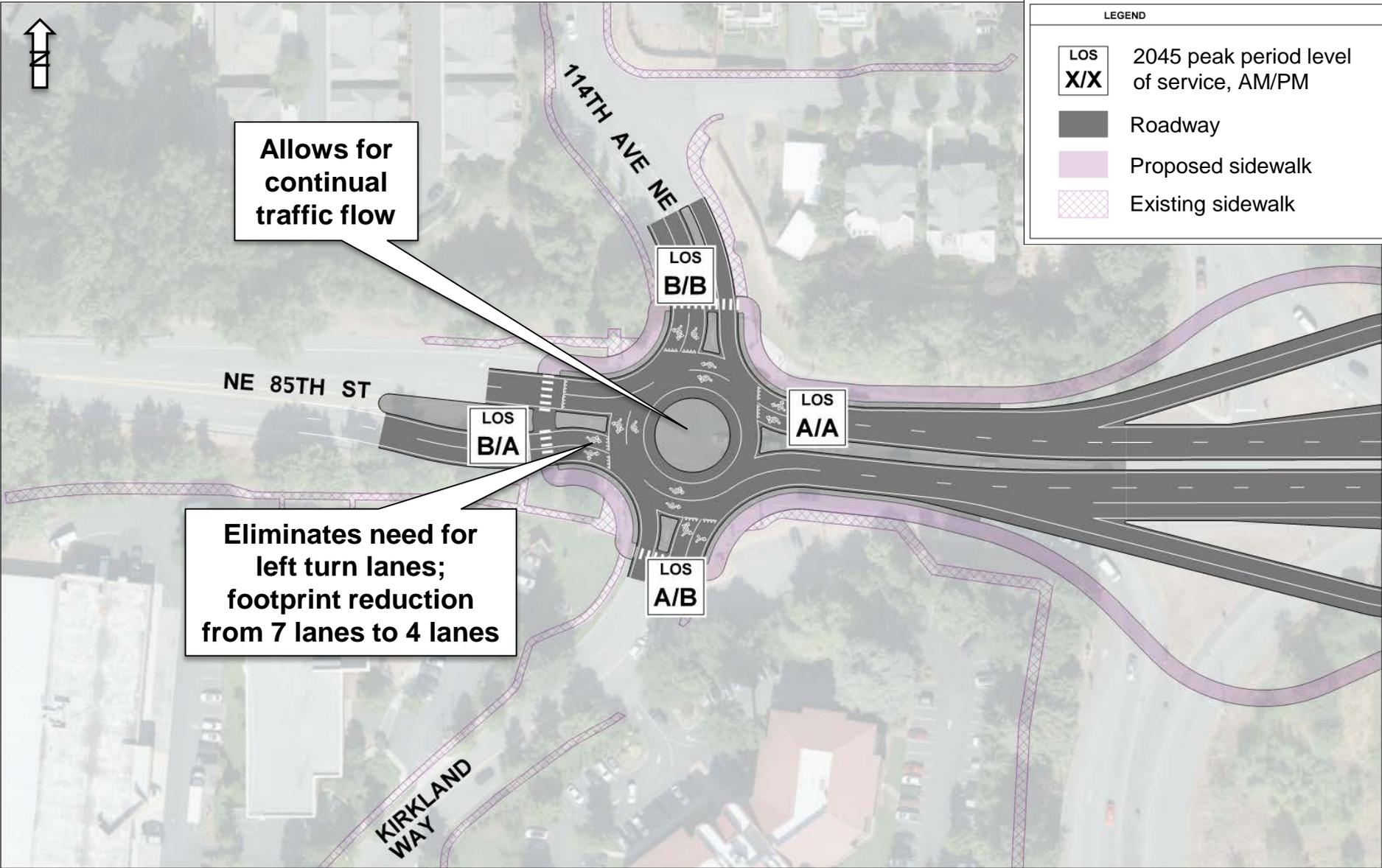
# Design concepts: NE 85th Street (level 1)



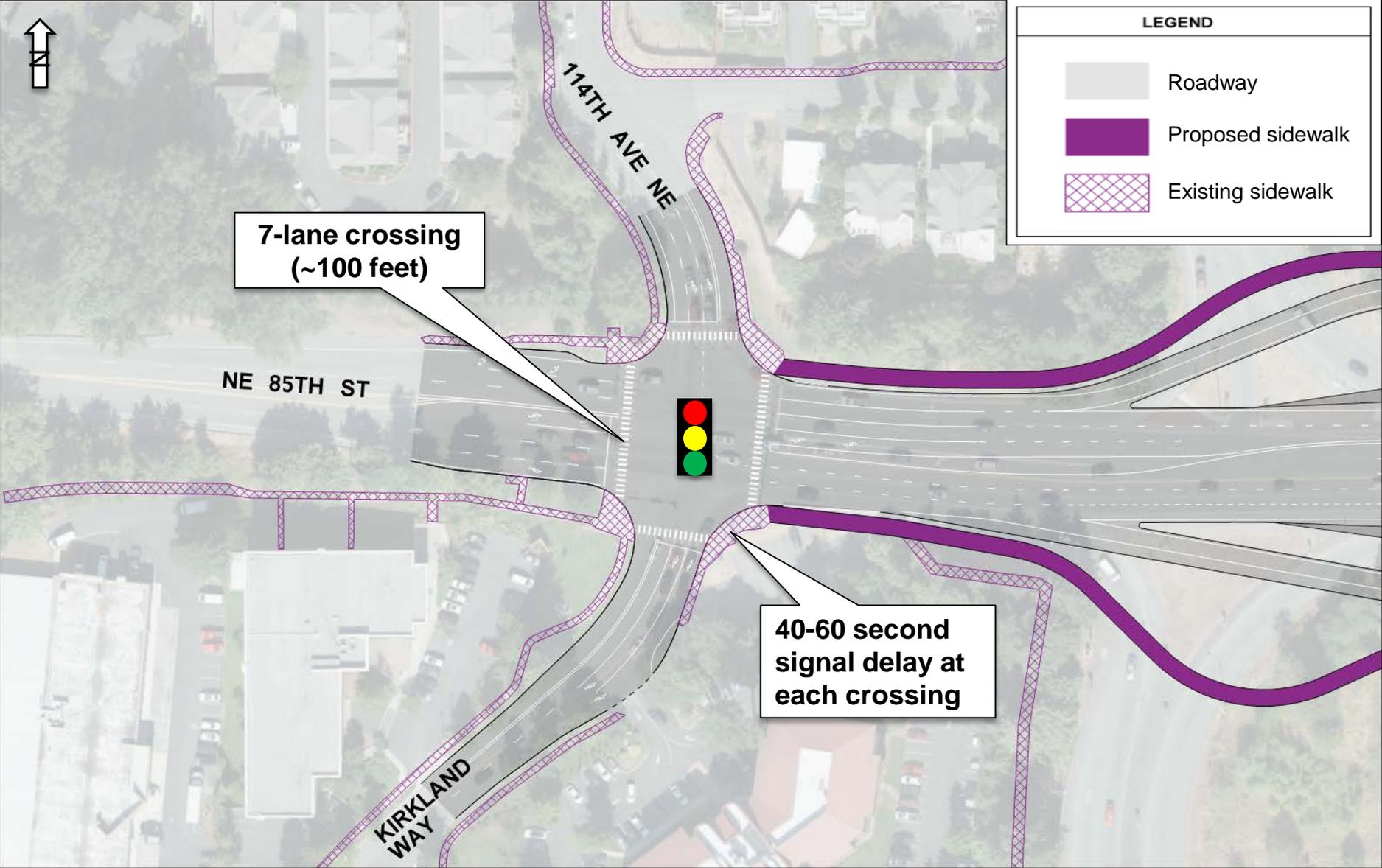
# Signalized design – motorized operations



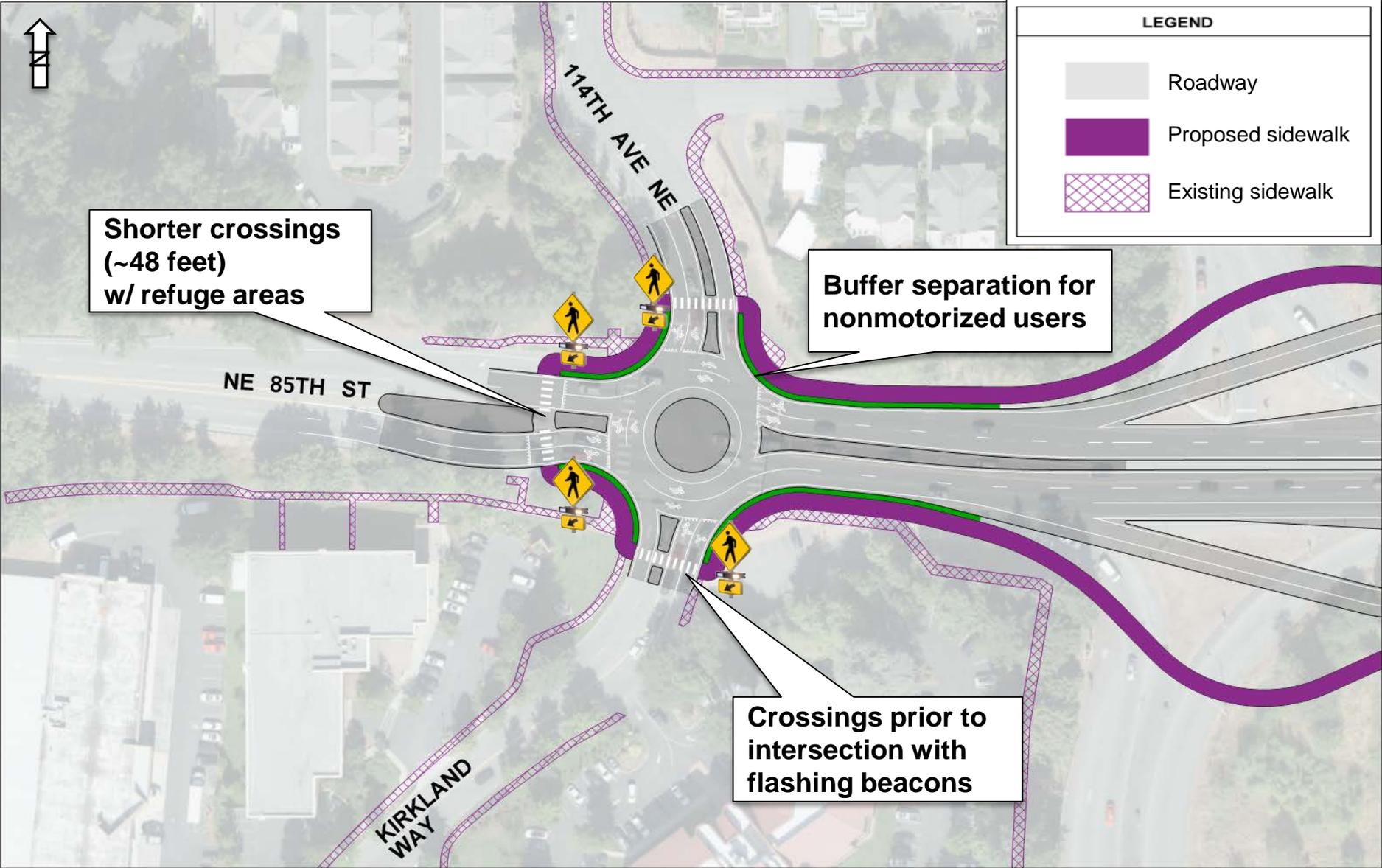
# Non-signalized design – motorized operations



# Signalized design - nonmotorized

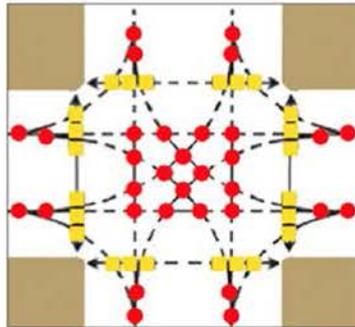


# Non-signalized design – nonmotorized



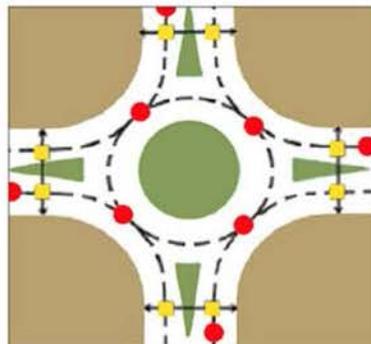
# Non-signalized design – roundabout safety

## Intersection



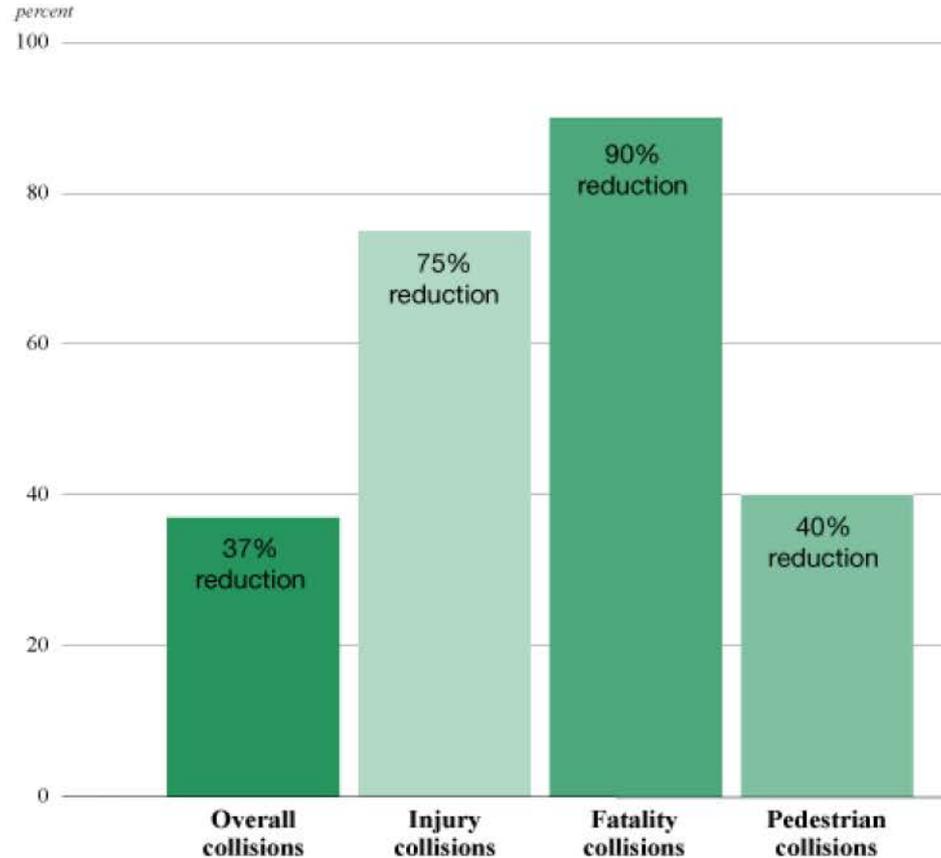
- 32 Vehicle conflicts
- 24 Pedestrian conflicts

## Roundabout



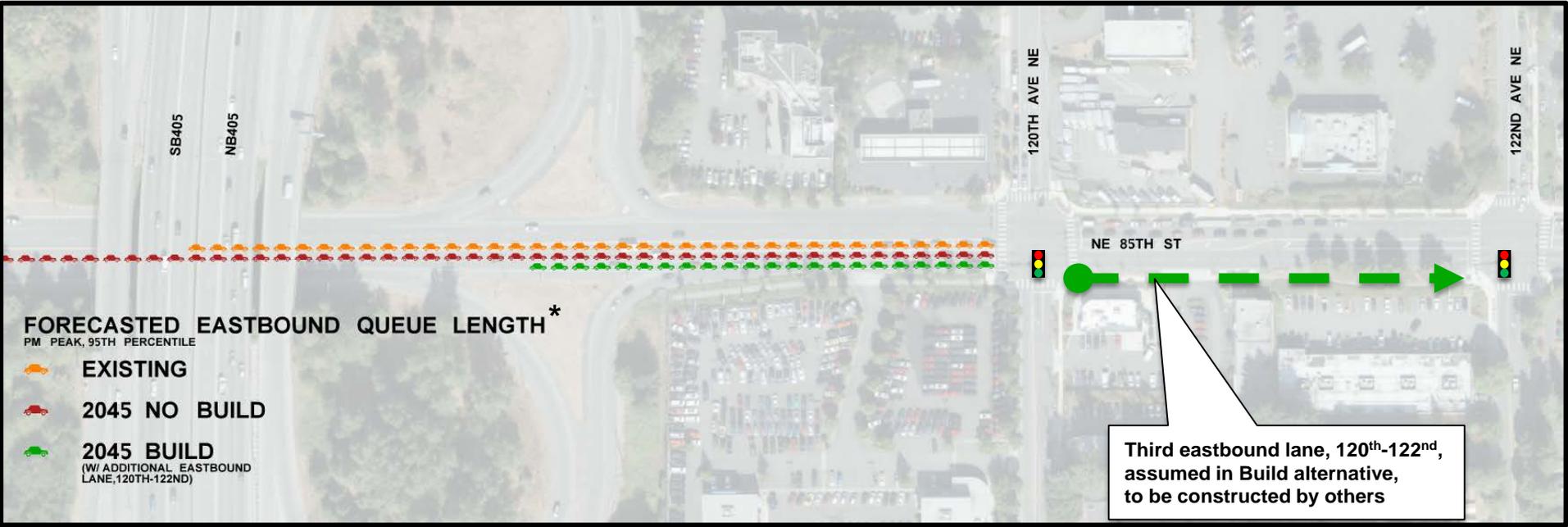
- 8 Vehicle conflicts
- 8 Pedestrian conflicts

## Reduction in collisions



Source: Federal Highway Administration and Insurance Institute for Highway Safety (FHWA and IHS)

# Operations: 120th Avenue NE/ NE 85th Street

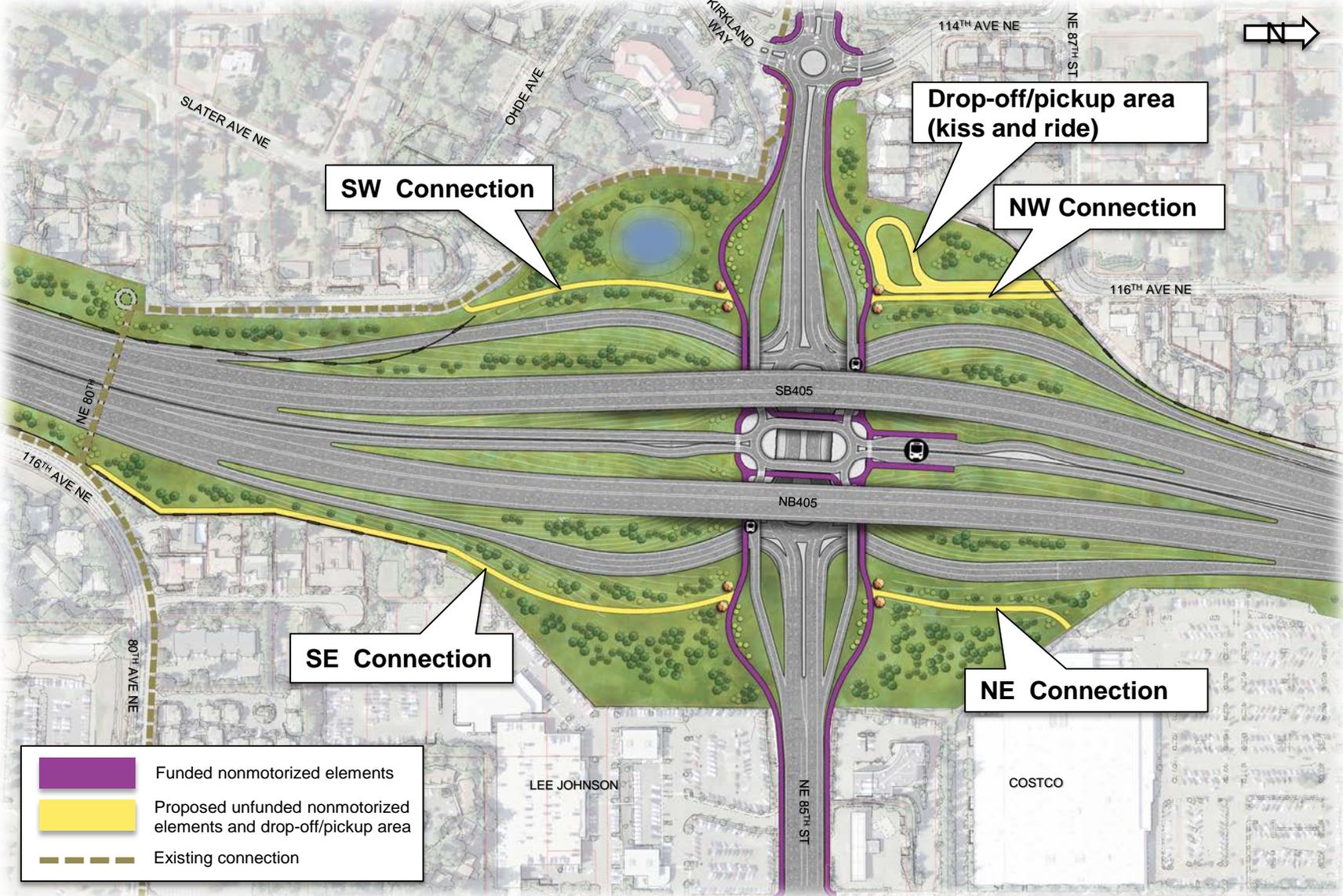


\* Conditions are independent of NE 85<sup>th</sup> Street Interchange Project.

# DESIGN, ACCESS, AND MOBILITY (UNFUNDED ELEMENTS)

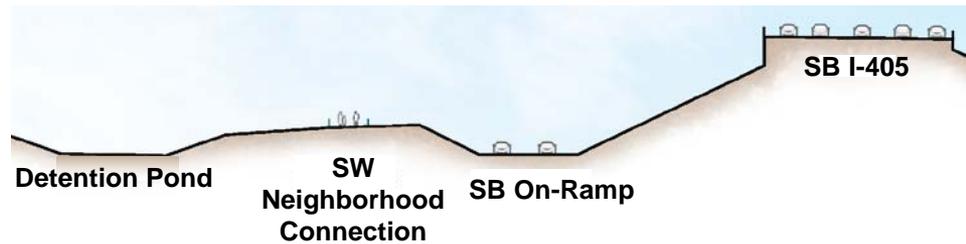
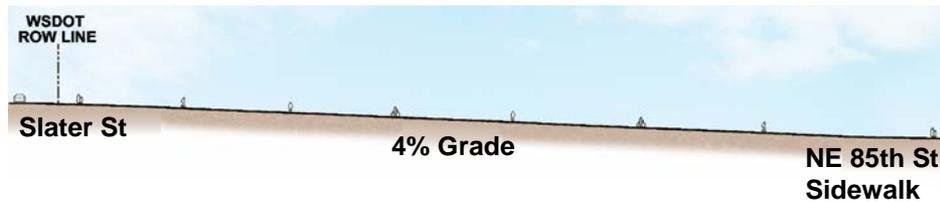
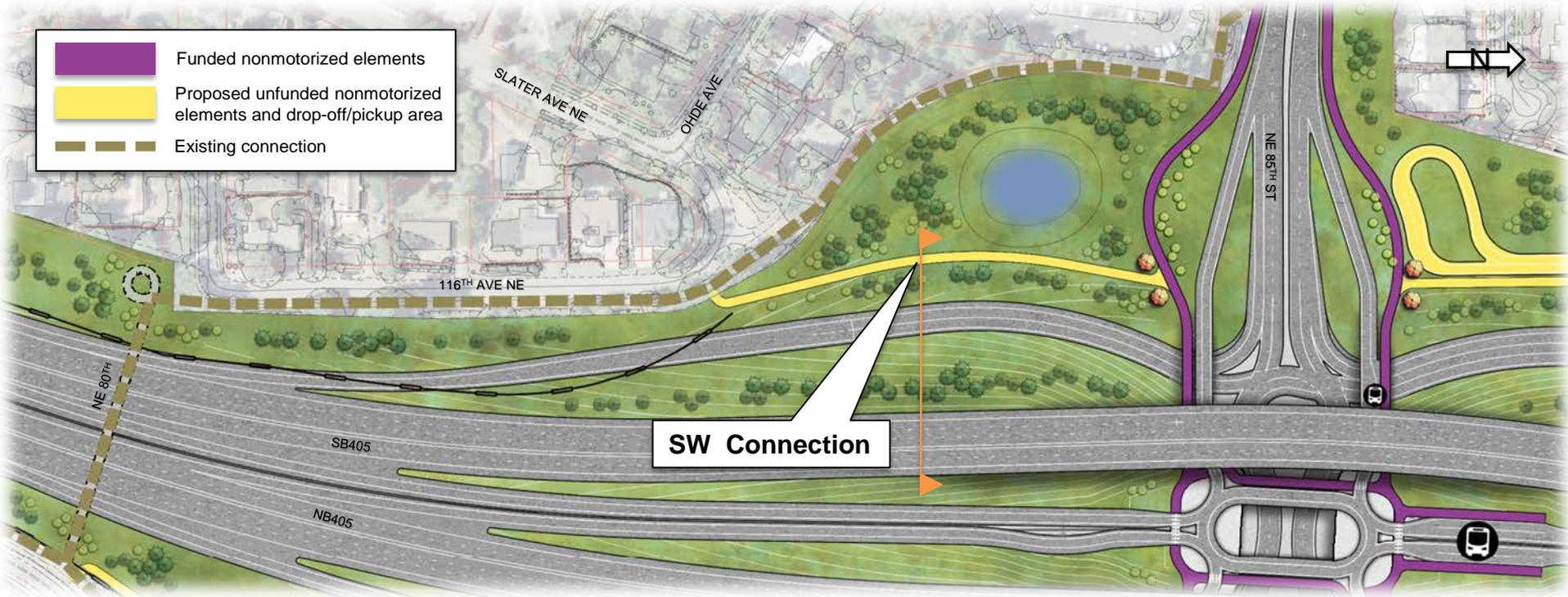
**Diana Giraldo, PE**  
Design Project Engineer  
WSDOT I-405/SR 167 Program

# Neighborhood connections

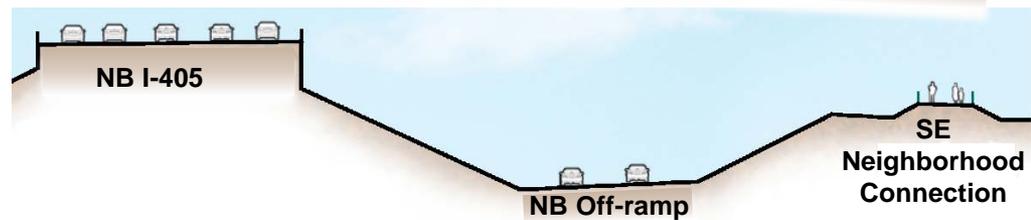
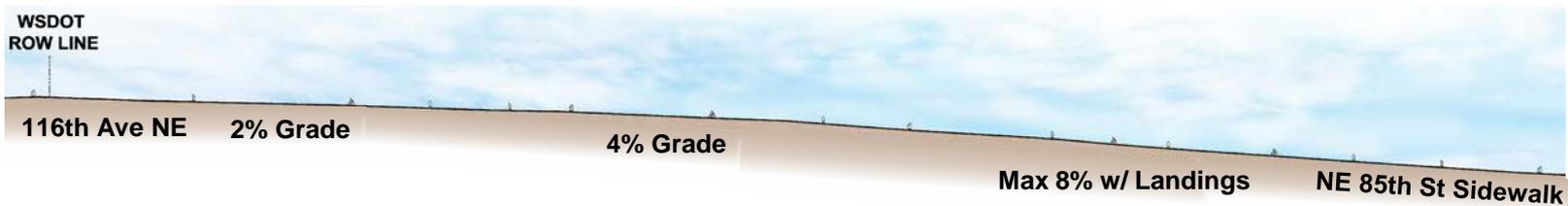
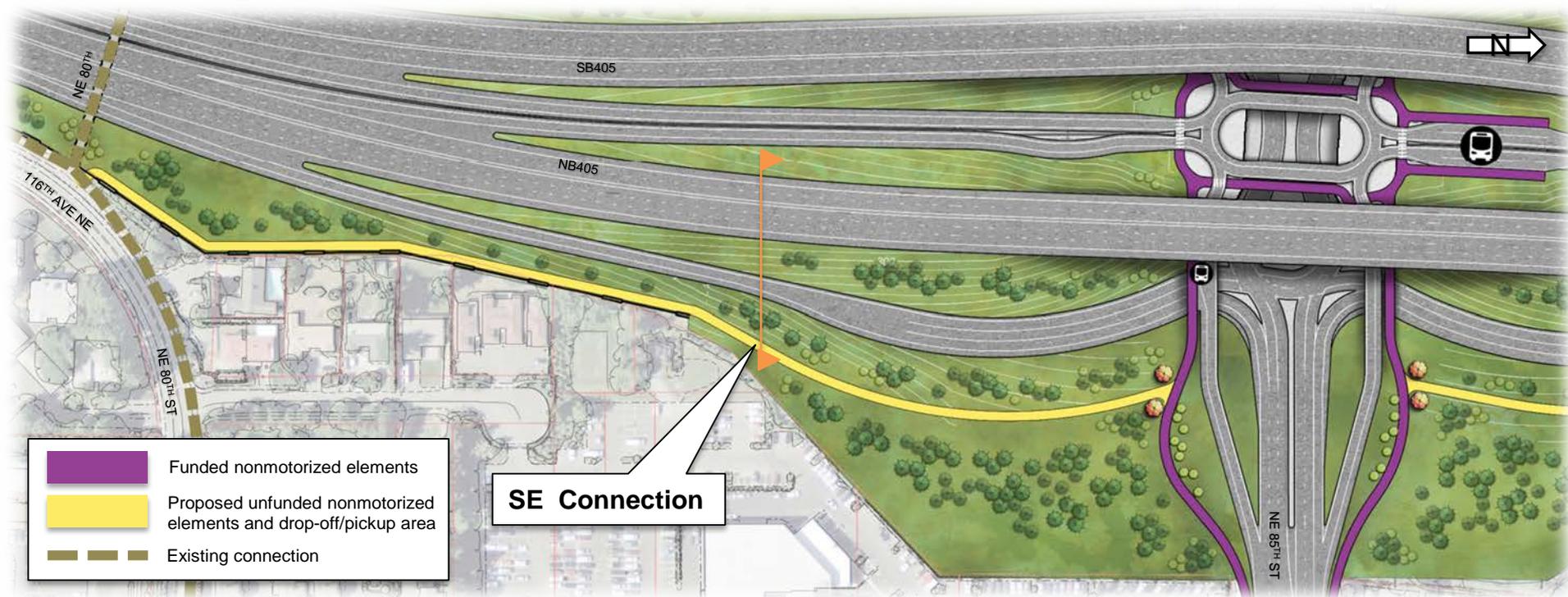


# Neighborhood connections: SW

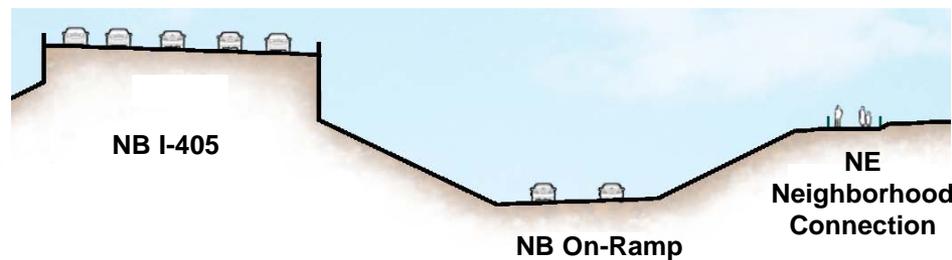
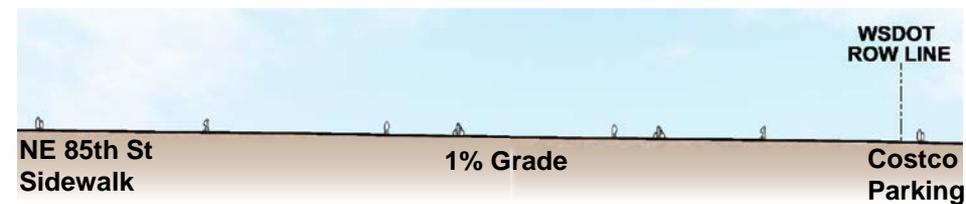
-  Funded nonmotorized elements
-  Proposed unfunded nonmotorized elements and drop-off/pickup area
-  Existing connection



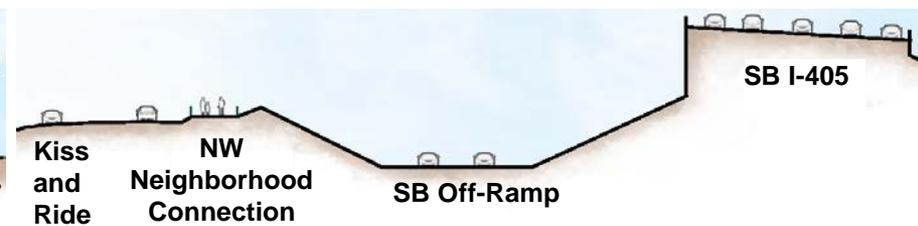
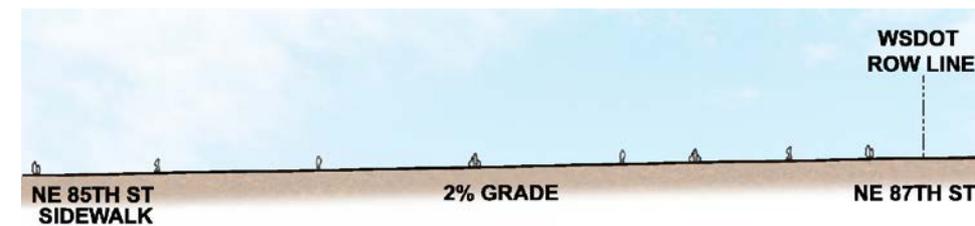
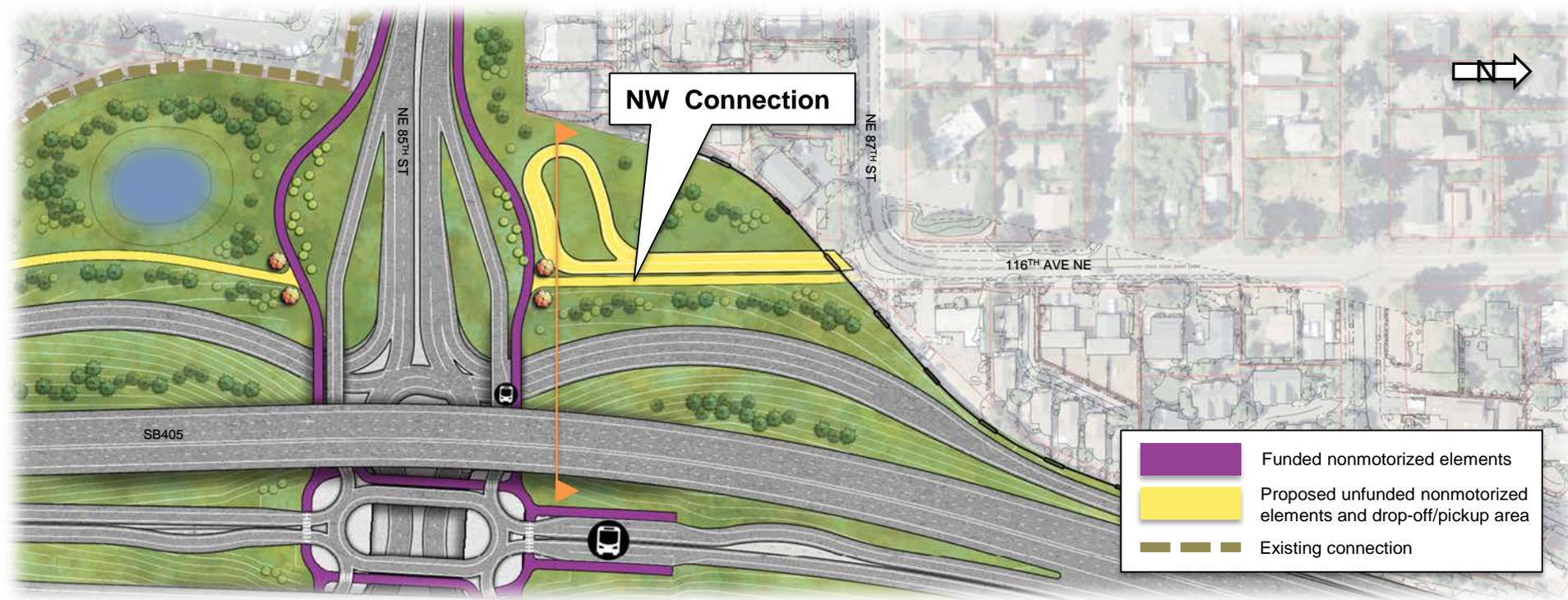
# Neighborhood connections: SE



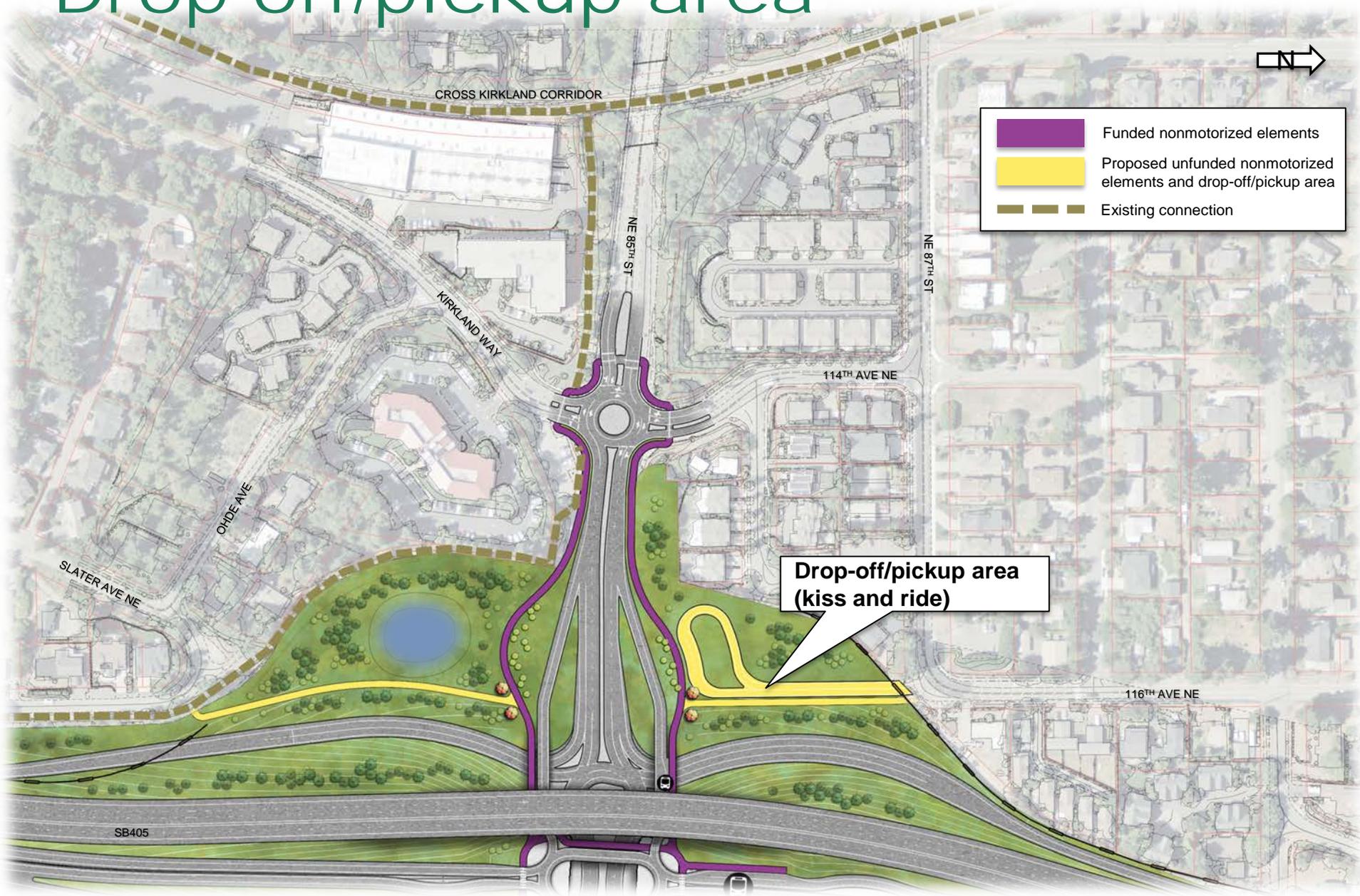
# Neighborhood connections: NE



# Neighborhood connections: NW



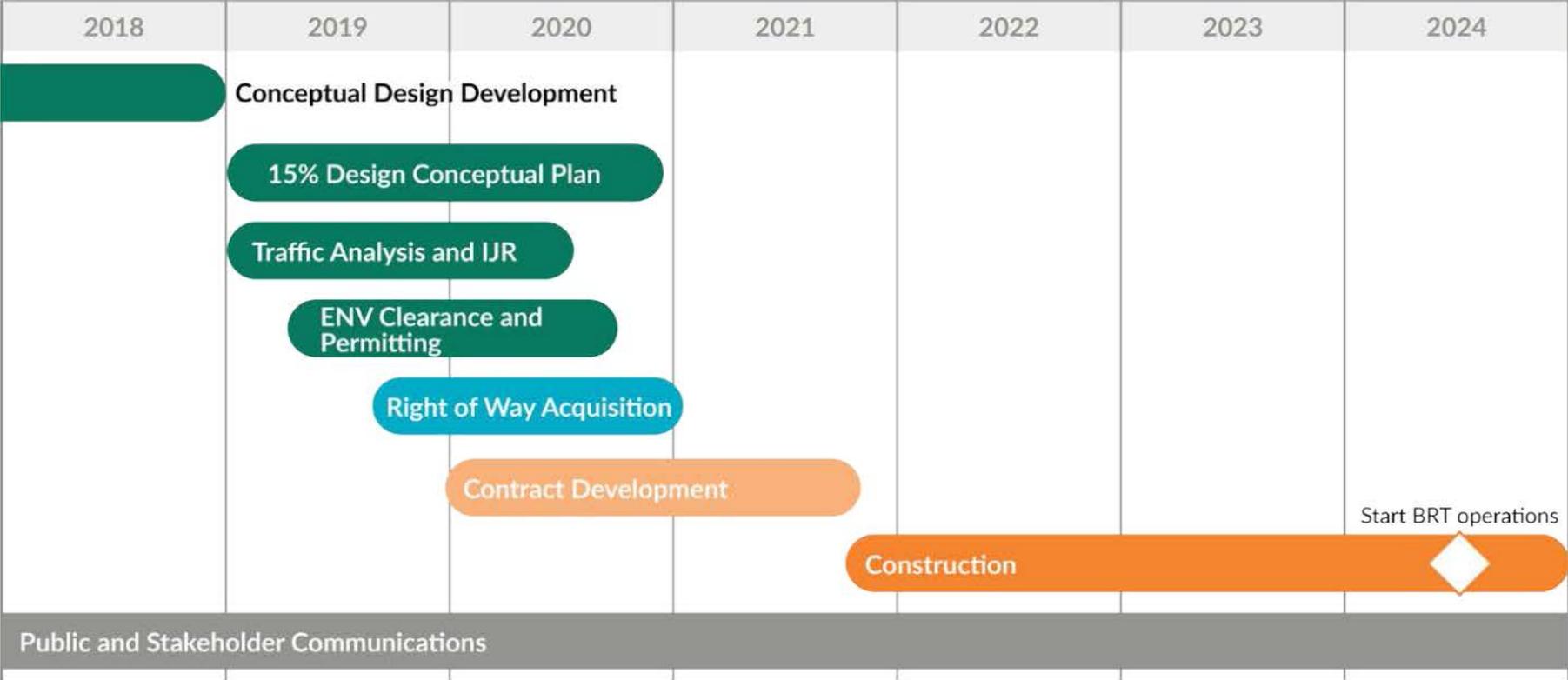
# Drop-off/pickup area



# NEXT STEPS

**Cynthia Padilla, AIA, LEED AP BD+C**  
I-405 BRT Project Manager  
Sound Transit

# Project timeline



# Community outreach

## 2018

- Kirkland Transportation Commission
- Kirkland City Council Ad Hoc Committee
- Kirkland City Council Study Session
- 4 stakeholder workshops
- 1 public open house

## 2019 (to date)

- 6 Kirkland neighborhood briefings for I-405 BRT

## Upcoming outreach

- ✓ Kirkland Alliance of Neighborhoods (May 8)
- ✓ Kirkland Transportation Commission (May 22)
- Open house (June 10)
- Kirkland City Council Ad Hoc Work Group (June 14)
- Kirkland Transportation Commission (June 26)
- Kirkland City Council (July 2)



# Questions?

# Contact

WSDOT I-405/SR 167 Program  
Public Information  
425-456-8585  
[I405SR167Program@wsdot.wa.gov](mailto:I405SR167Program@wsdot.wa.gov)

Sound Transit  
I-405 Bus Rapid Transit  
206-398-5000  
[Ivonne.riveramartinez@soundtransit.org](mailto:Ivonne.riveramartinez@soundtransit.org)