

# West Seattle Five-Way Intersection

W Marginal Way, SW Spokane St, Delridge Way SW, Chelan Ave SW, & Port of Seattle Terminal 5 access road



Seattle Bicycle Advisory Board

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# SDOT's mission & vision

Mission: delivering a first-rate transportation system for Seattle.



Vision: a vibrant Seattle with connected people, places, and products.

# SDOT's core principles

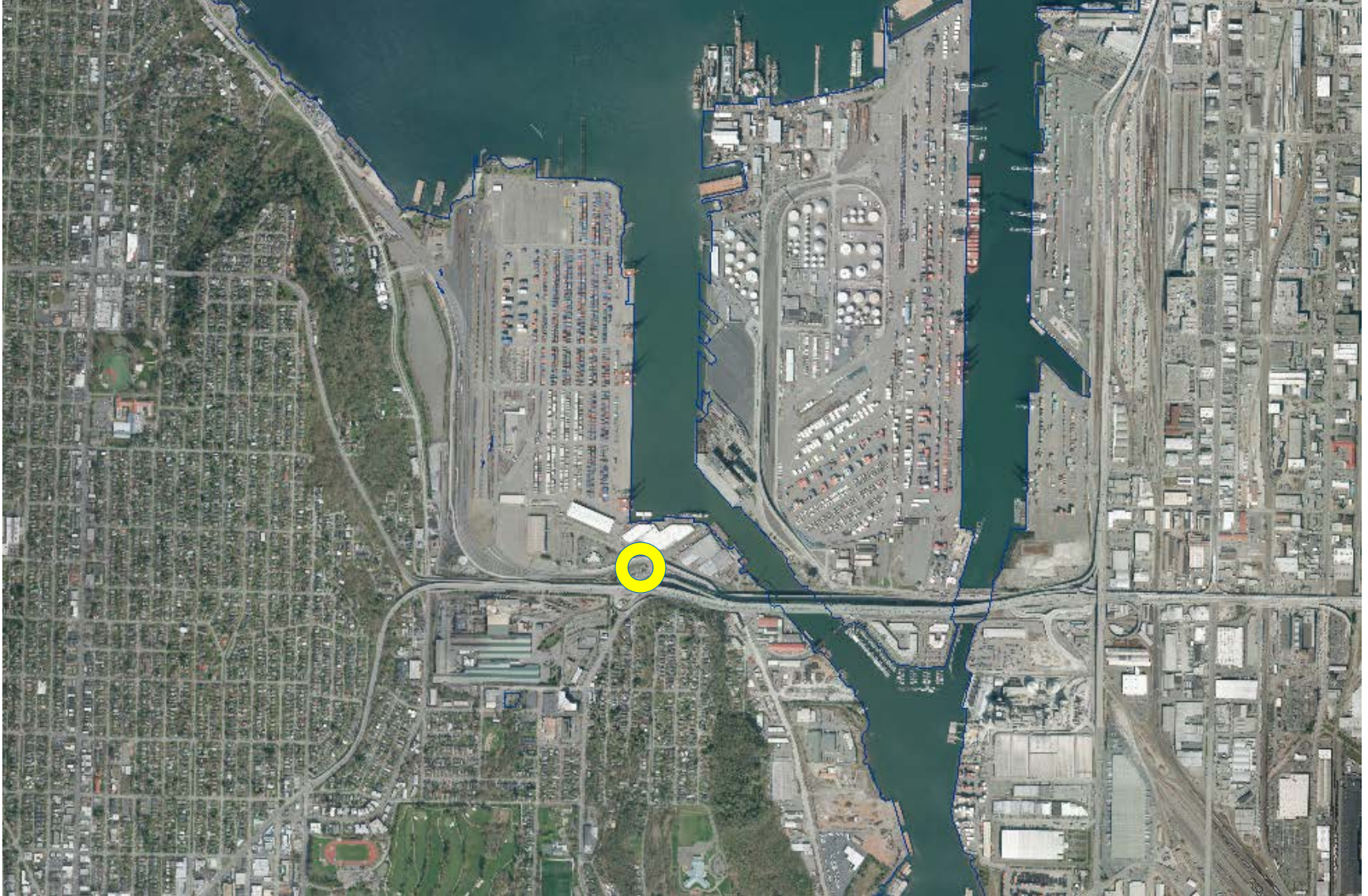


# Presentation overview

- Project area
- Existing conditions
- Project goals
- Concepts
- Next steps



# Project area





# Existing conditions



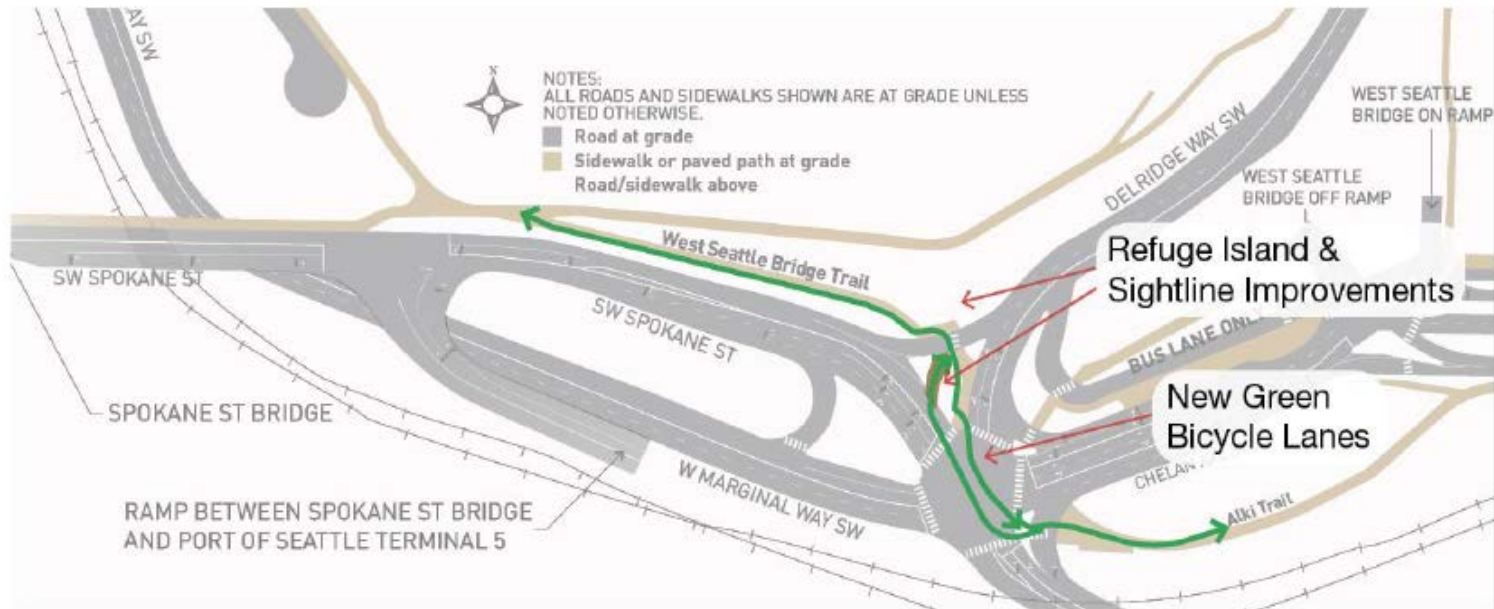
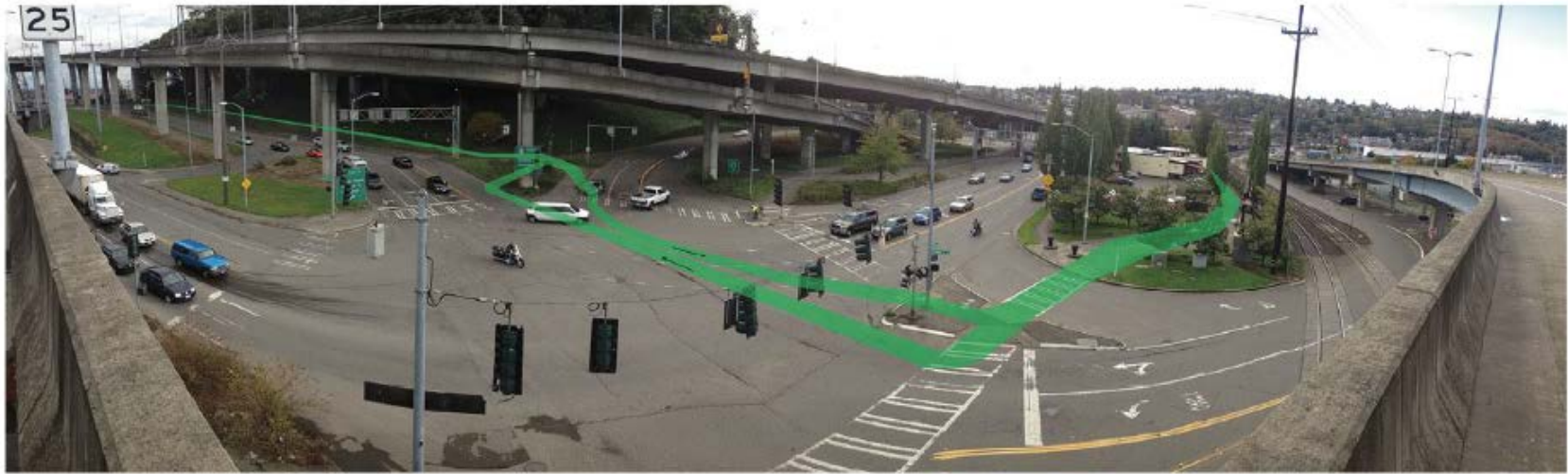
- Complicated geometry
- Limited signal capacity
  - Long cycle & wait times
- Unpredictable bike/ped movements
- Competition for space
  - Vehicle volumes highest intersecting bike/ped desire lines
  - Port of Seattle access

# Goals

- Safety
- Predictability
- Intuitive / comfortable bike/ped trail connection
- Maintain auto / freight travel times
- Support Port of Seattle operations



# Short-term: Enhanced at-grade crossing

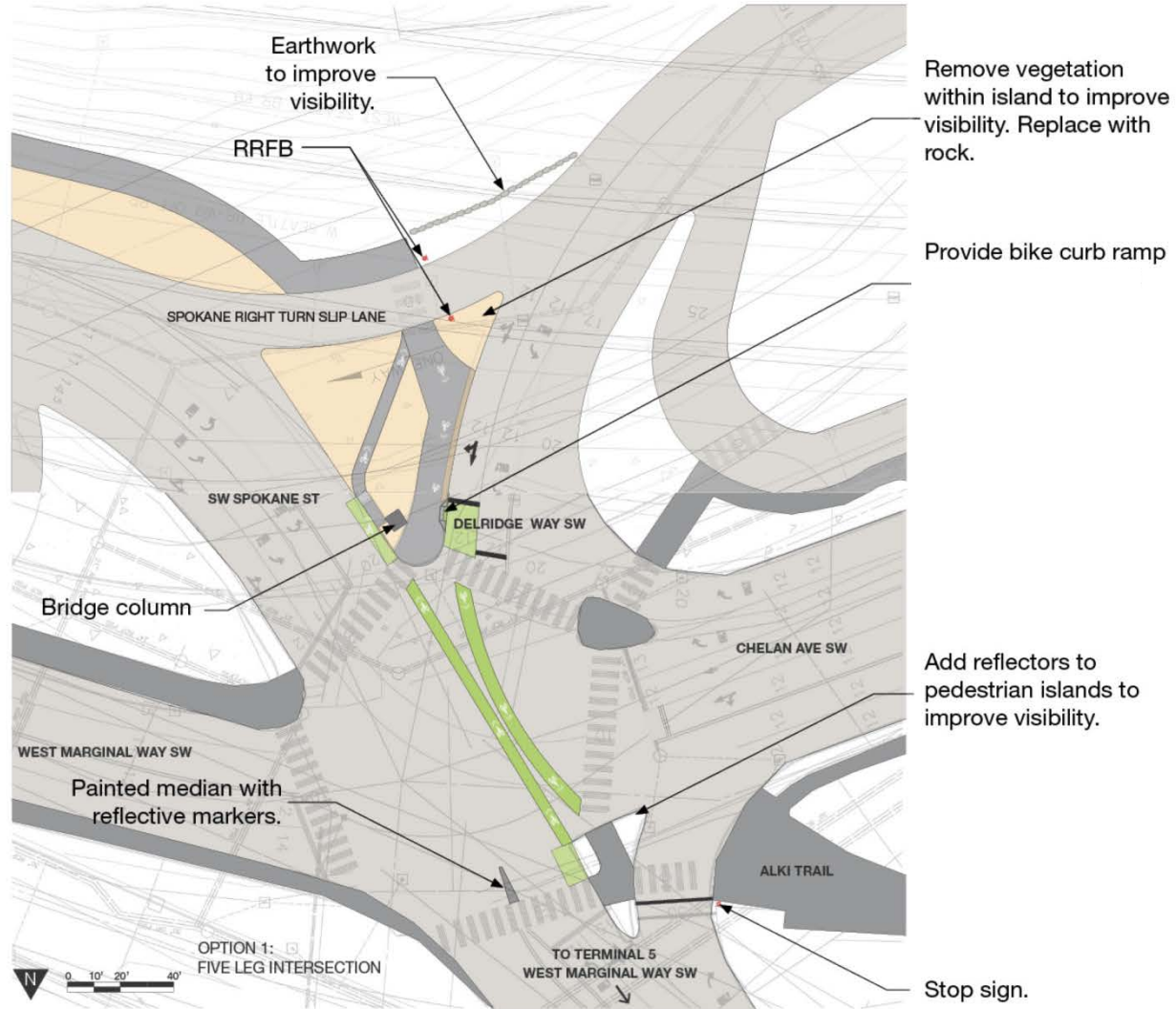




# Short-term: Enhanced at-grade crossing

## ITEMS TO REVIEW WITH 30% DESIGN

1. Wayfinding signs.
2. Vehicle travel guide lines through intersections.
3. Stop control for right turn northbound on W Marginal Way SW
4. Bike detection options.
5. Stop bar location for left turn only lane at northbound Delridge Way SW



# Short-term: Enhanced at-grade crossing

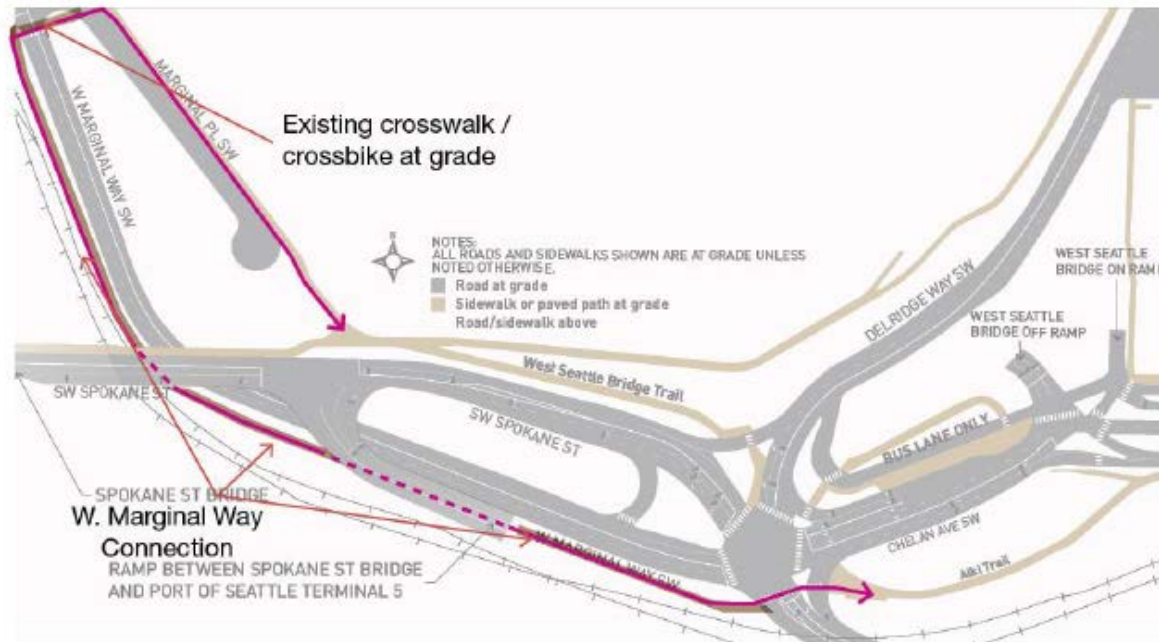
## Pros

- Safer crossing of Spokane Turn Lane
- Short and direct route with one signal phase for bicyclists
- Intuitive
- Ease of implementation
- Few freight impacts

## Cons

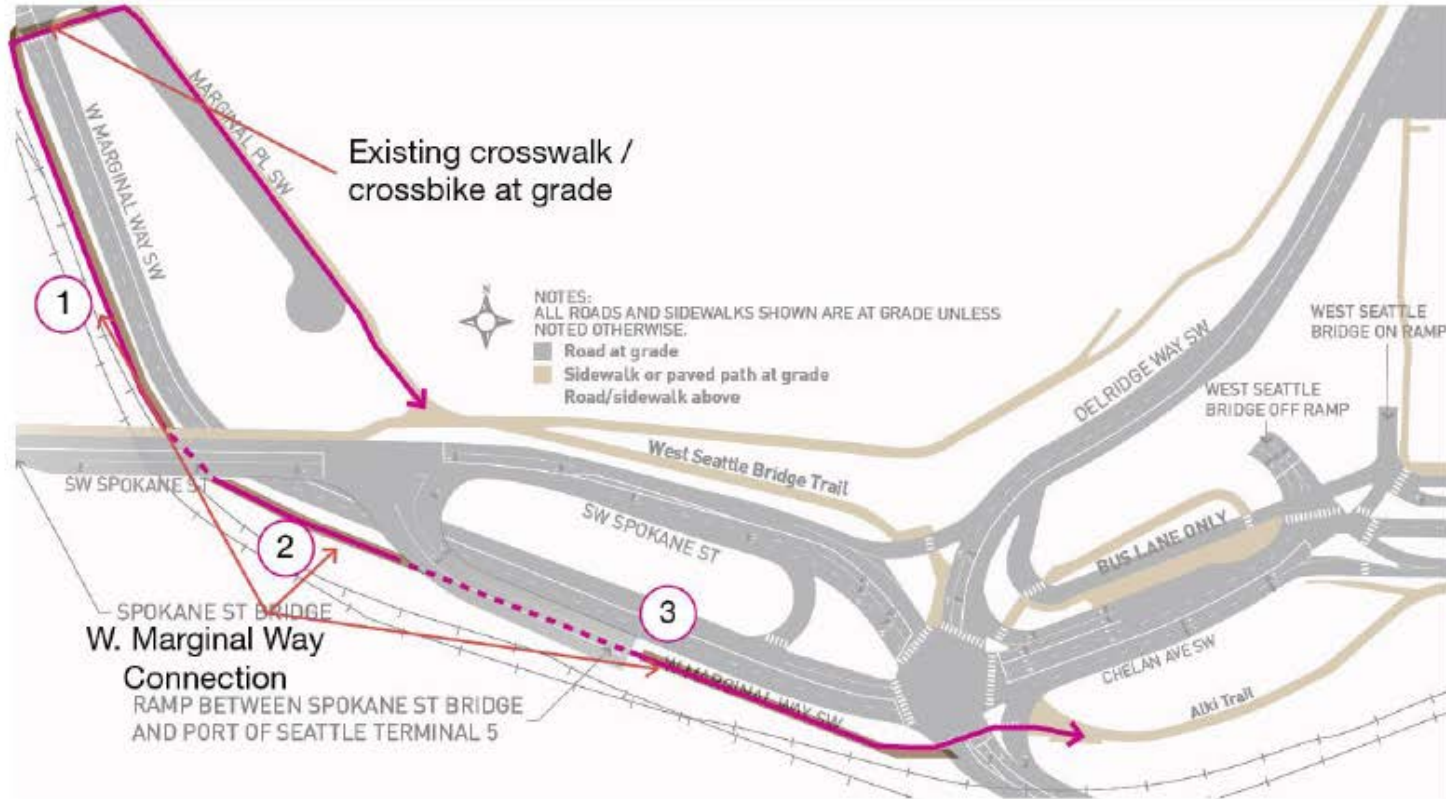
- Vehicle delay at Spokane Turn Lane
- Vehicle delay as bicyclists clear the bike box
- Potentially not comfortable for people of all ages and all abilities

# Mid-term: W Marginal Way connection





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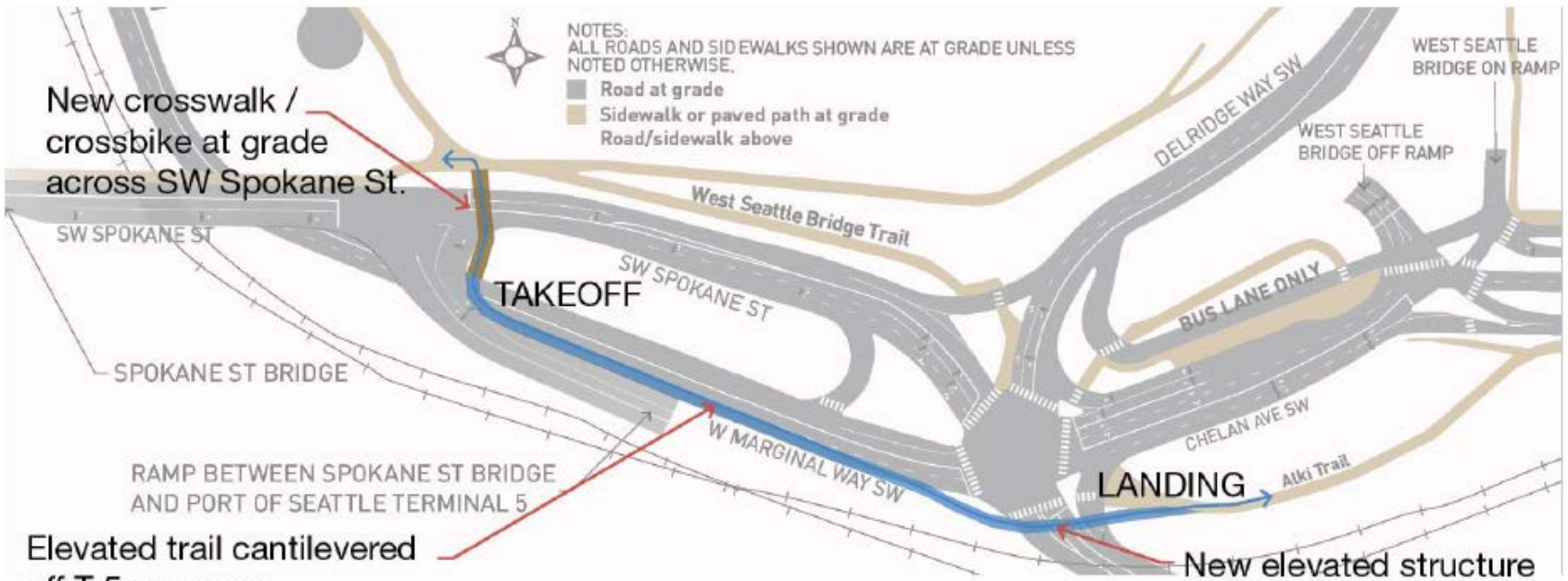
## Pros

- Reduces modal conflicts
- Accommodates people of all ages and all abilities
- Connects two trails
- No significant impacts to vehicle performance

## Cons

- Circuitous route
- Counterintuitive wayfinding
- Free parking loss
- Three driveway conflicts
- Cost

# Long-term: Elevated trail





# Long-term: Elevated trail

## Pros

- Avoids WS5 Way
- Direct, intuitive connection
- Accommodates people of all ages and all abilities
- No freight delay at WS5 Way
- Improved perception of personal security

## Cons

- Freight and vehicle delay at SW Spokane St / T5 flyover
- Cost

# Next steps

January 2015	Advisory board briefings
February 2014	Design work shop & site visit
June 2014	SFAB briefing #1
Summer 2014	Concept evaluation & preliminary cost estimates
Fall 2014	Draft report
Early 2015	Present to stakeholders
Summer 2015	Implement short-term improvements

# Questions?

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