

Leary Way NW and NW 46th St Traffic Signal

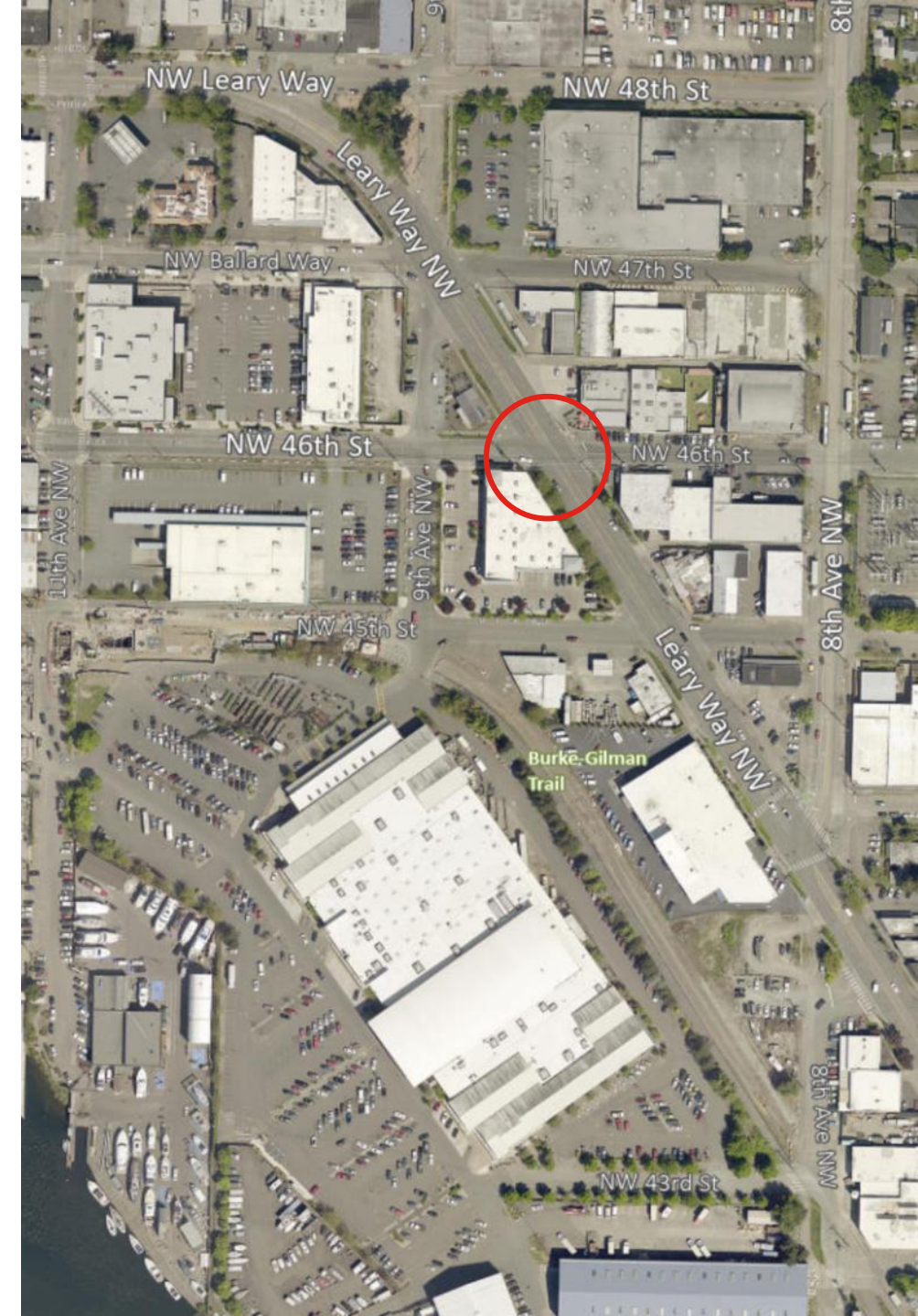
Freight Board

Agenda

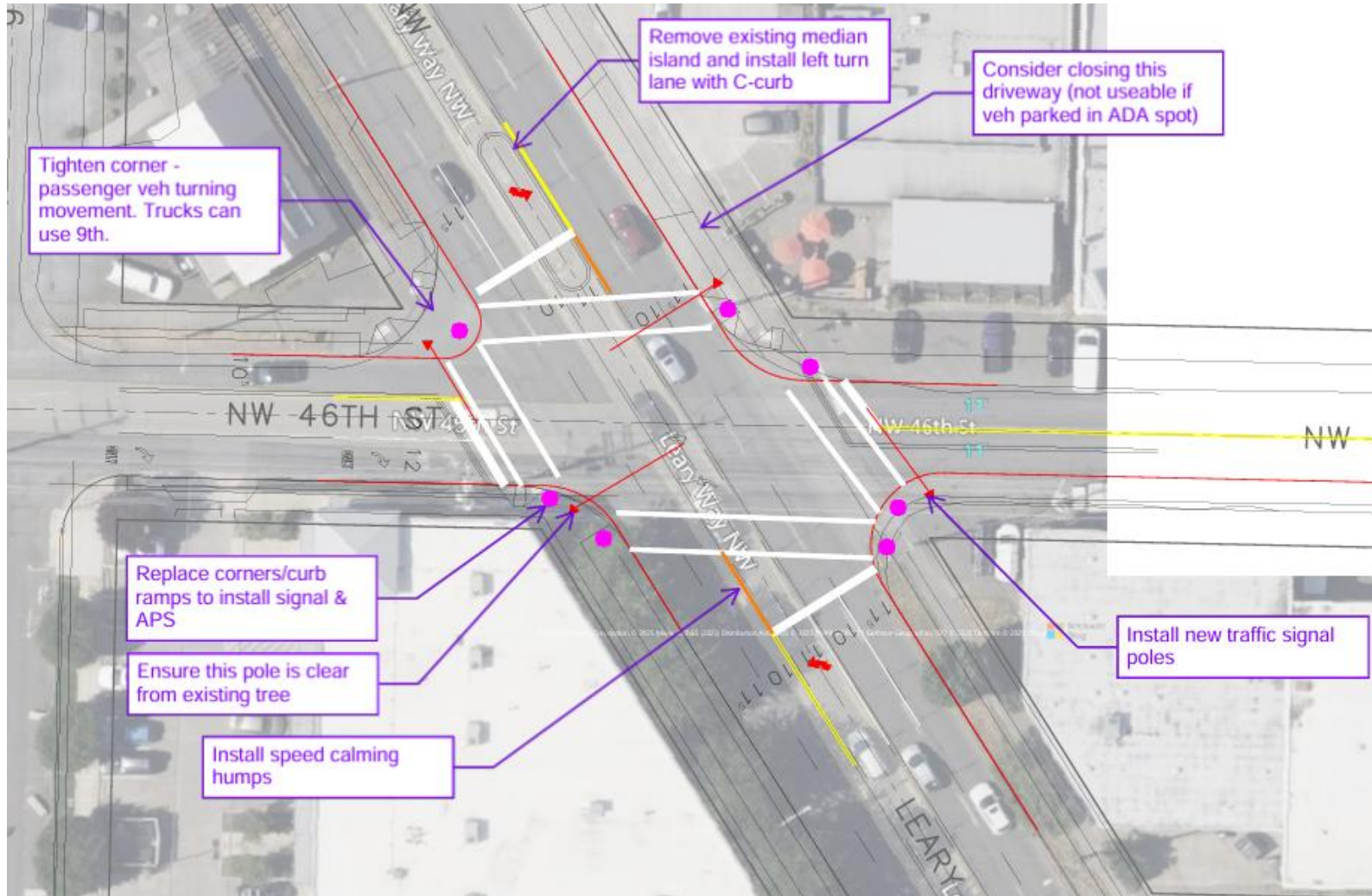
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Project Background

- Leary Way NW and NW 46th St identified as **2025 High Collision Location** (unsignalized)
- Proposing a **New Traffic Signal** to be constructed in 2026



Project Concept



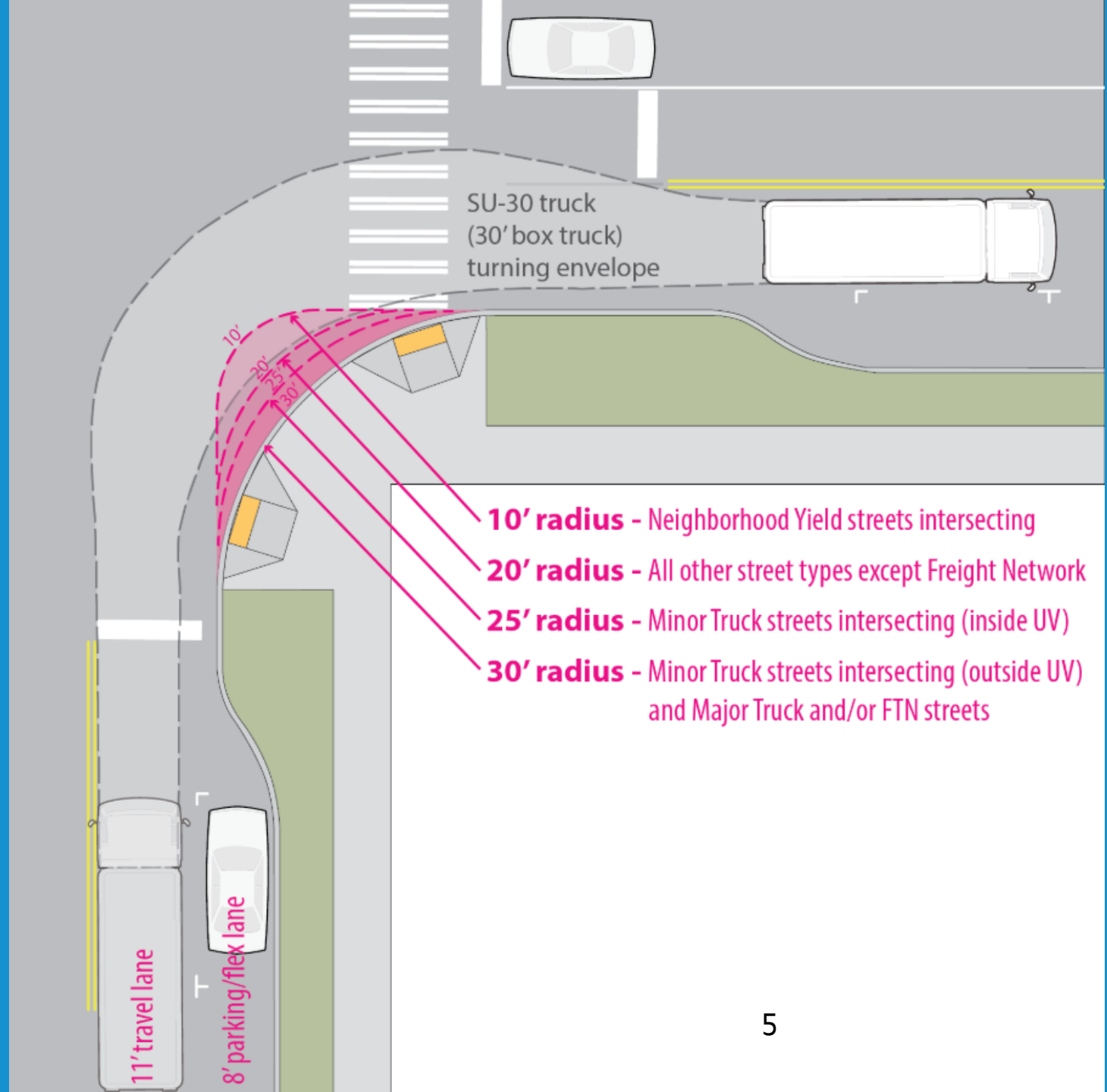
Current Standards

3.9 Intersections :: Seattle Streets Illustrated

"SDOT's standard design vehicle is SU-30 with a 42 foot turning radius. Designers should use this vehicle when using Auto Turn for intersection analysis."

"On low volume two-lane streets, corner design should assume that a large vehicle will use the entire width of the departing and receiving travel lanes, including the oncoming traffic lane."

"In some cases where there are alternative access routes, it may be possible to restrict turning movements by large vehicles at certain intersections and driveways to enable tighter curb radii. Turn restrictions and alternate access routes must be properly signed and must be approved by SDOT."



Street Types and Network

Freight

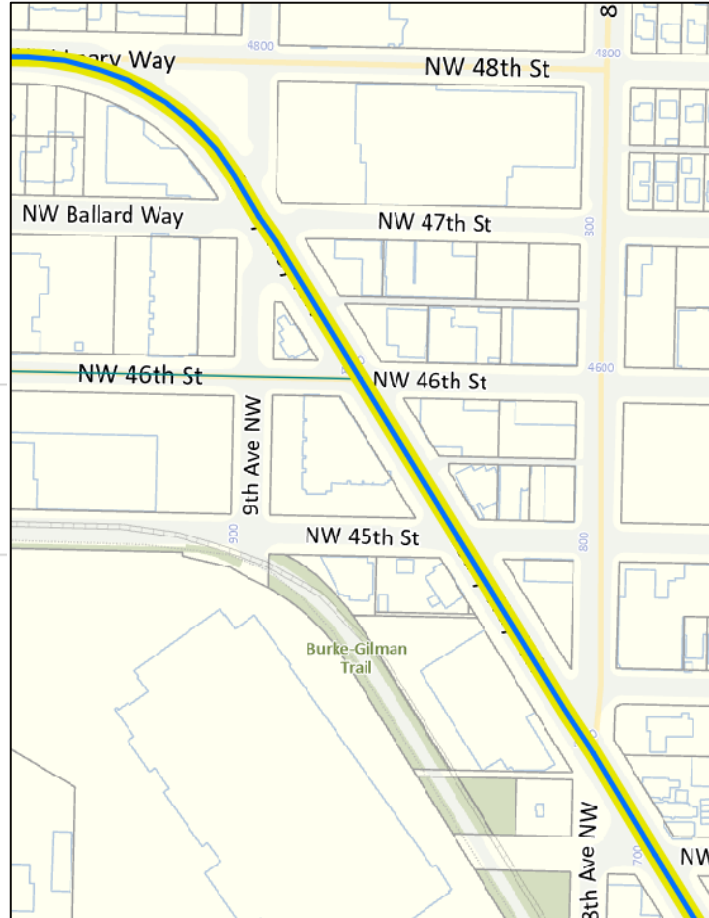
Freight Network

- Limited Access
- Major
- Minor
- Industrial

Over Legal Routes



Major Truck Streets



Streets - Hansen

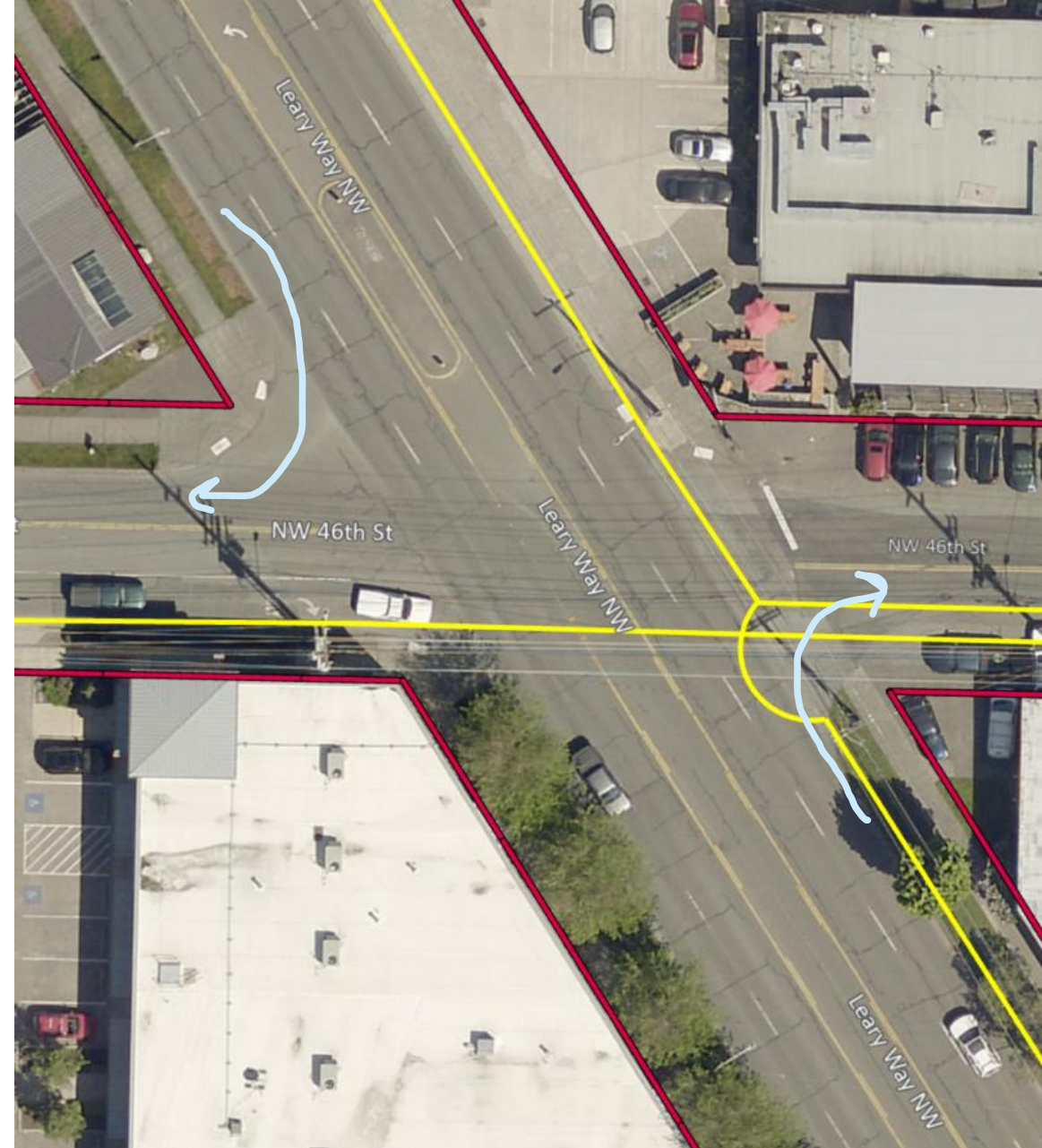
- Interstate/Freeway
- State Route/Freeway
- Principal Arterial
- Minor Arterial
- Collector Arterial
- County Arterial
- Not Designated
- Other



*NW 46th St west of Leary Way NW is not on the Freight Network Map but is on the Major Truck Streets Map. Given the land use context, this project assumes some truck use on NW 46th St west of Leary Way NW

SI Deviation Proposal

- Use passenger vehicle to establish curb radius and NW and SE corners. Use SU-40 as accommodate vehicle
- Advantages –
 - Reduces turning speeds
 - Reduces pedestrian crossing distance
 - Increases space at corners for pedestrians
 - Improves ROW constraints at corners
 - Provides more space to locate signal poles and equipment (particularly at SE corner given overhead constraints)



Turning Movements

Type Road	Grand Total of ALL Vehicles															
Classification	Leary Way NW Southbound				NW 46th St Westbound				Leary Way NW Northbound				NW 46th St Eastbound			
Start Time	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn
totals	262	5323	45	1	24	558	239	0	3594	6510	115	1	101	640	3446	0
	5631				821				10220				4187			

FHWA Class 4-Class13 trucks daily total

- SBRT total: 2
- NBRT total: 9

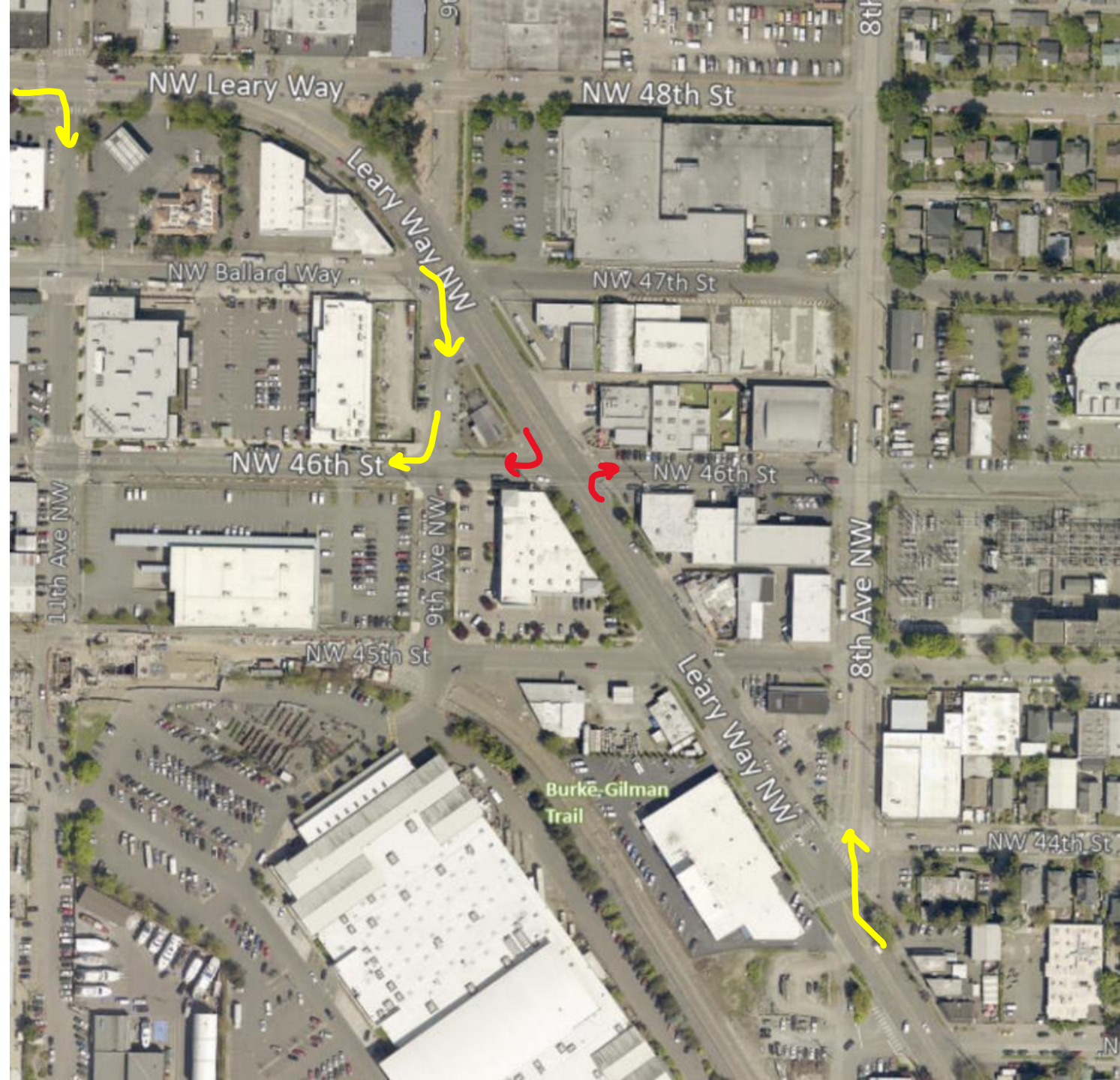
Alternate Routes

- Alternate for SBRT

- Eastbound trucks on Leary Way NW can either turn right on 11th Ave NW or on 9th Ave NW
- 9th Ave NW is a more gradual turn and likely already being used by trucks – can work with freight team to add to freight network update

- Alternate for NBRT

- North-westbound trucks on Leary Way NW can turn right on 8th Ave NW which is a more gradual turn



Asks

Confirm design and allowable vehicle selection for establishing northwest and southeast corner design

Confirm alternate truck routes are acceptable

Thank you!