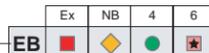


LEGEND

- No queuing at this location (speeds > 50 mph) and no effect on SR 520
- ◆ Moderate congestion at this location (speeds between 30 and 50 mph) and no effect on SR 520
- Queuing at this location (speeds < 30 mph) but no effect on SR 520
- ★ Queuing at this location (speeds < 30 mph) AND affects SR 520

No Build Existing 4-Lane 6-Lane

SR 520 direction affected by congestion point



* This location operates under heavy congestion because of a queue that begins at the east Evergreen Point Bridge approach that trickles back to the I-405 interchange. The congestion at I-405 in the year 2030 No Build Alternative is not due to the 124th Avenue and I-405 interchange weave.



Exhibit 4-23. P.M. Peak Period Project Area Congestion Points
SR 520 Bridge Replacement and HOV Project

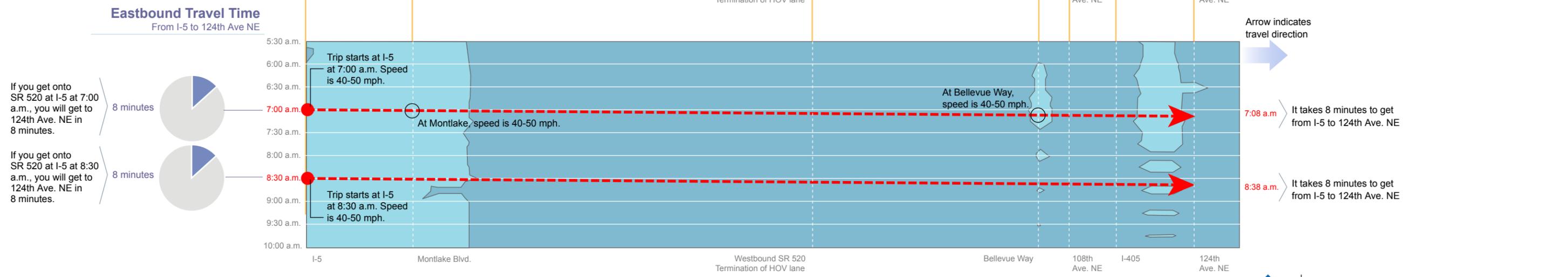
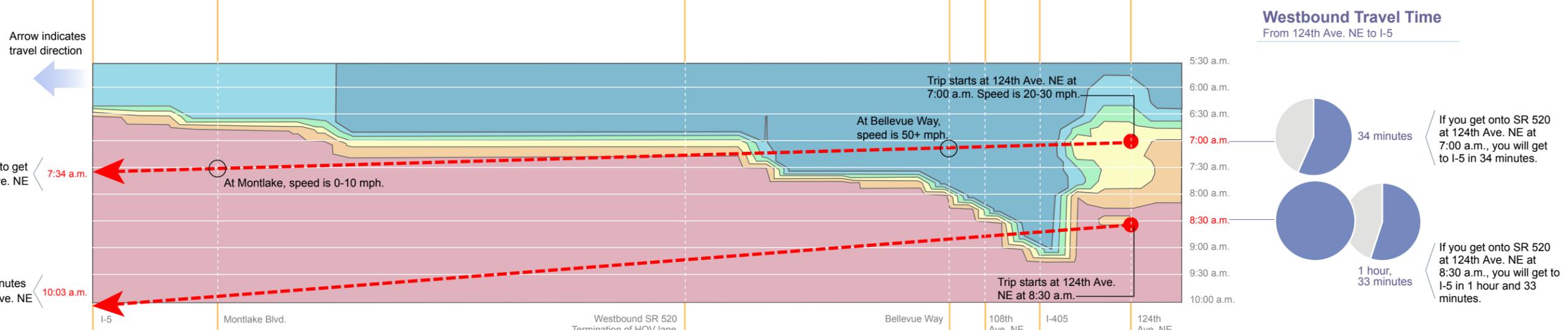
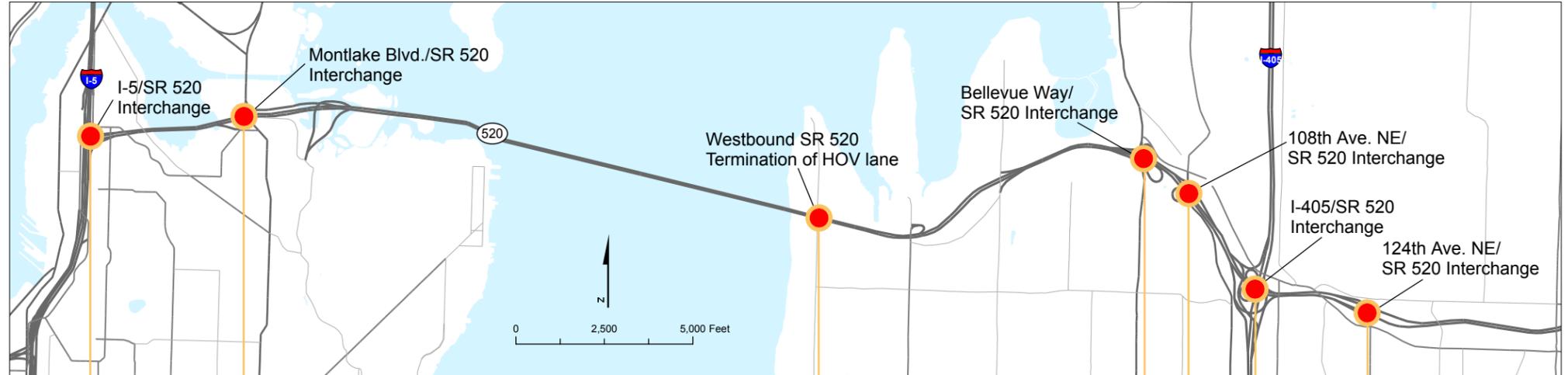
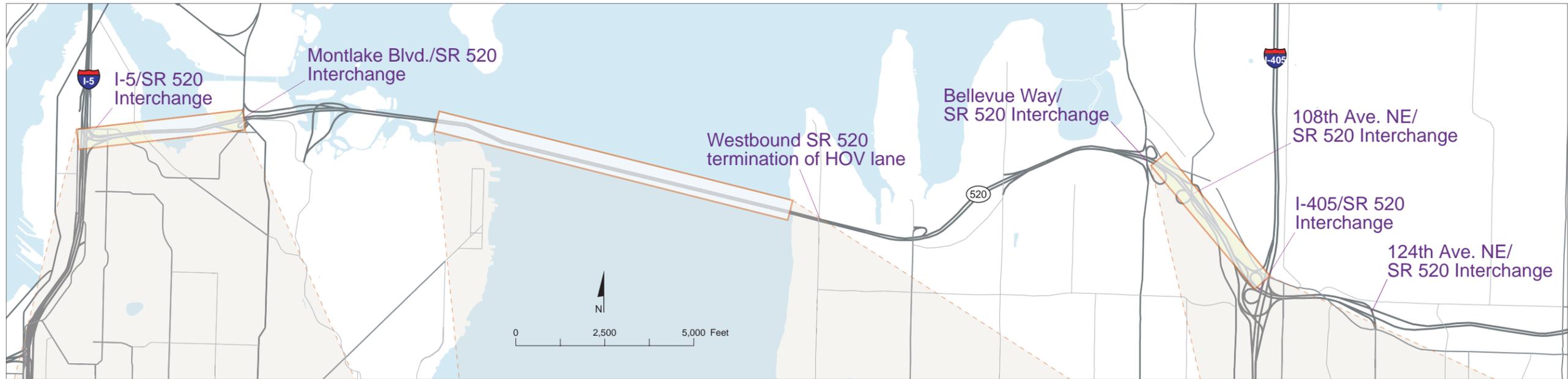


Exhibit 4-24. How to Read the Traffic Operations Exhibits
SR 520 Bridge Replacement and HOV Project



I-5 and Montlake Blvd.

Volume Trips per hour

■ Westbound Demand ■ Eastbound Demand
■ Westbound Throughput ■ Eastbound Throughput

	Vehicle Trips	Person Trips
Existing Conditions		
Westbound	3520	6500
Eastbound	2840	4480
Year 2030 No Build Alternative		
Westbound	3600	8530
Eastbound	3130	5450
Year 2030 4-Lane Alternative		
Westbound	3700	10460
Eastbound	2640	5830
Year 2030 6-Lane Alternative		
Westbound	4510	11900
Eastbound	2930	6500

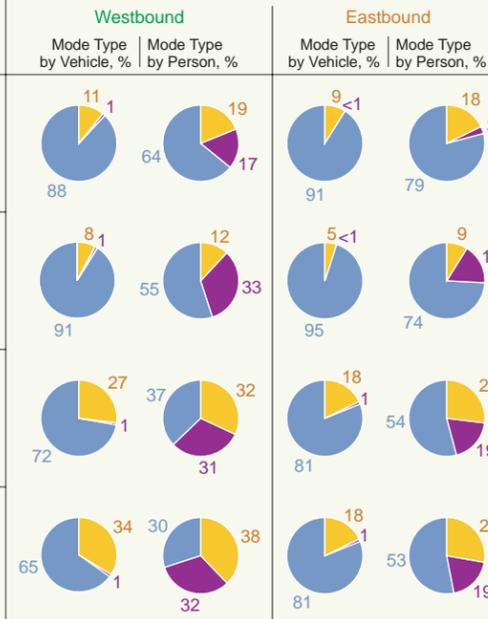
Bridge Midspan

Volume Trips per hour

■ Westbound Demand ■ Eastbound Demand
■ Westbound Throughput ■ Eastbound Throughput

	Vehicle Trips	Person Trips
Existing Conditions		
Westbound	3710	6810
Eastbound	3830	5850
Year 2030 No Build Alternative		
Westbound	3900	8980
Eastbound	4360	7210
Year 2030 4-Lane Alternative		
Westbound	3540	10390
Eastbound	3330	7140
Year 2030 6-Lane Alternative		
Westbound	4420	11960
Eastbound	4010	8250

Mode Choice ■ Carpool ■ Bus ■ GP



West of I-405

Volume Trips per hour

■ Westbound Demand ■ Eastbound Demand
■ Westbound Throughput ■ Eastbound Throughput

	Vehicle Trips	Person Trips
Existing Conditions		
Westbound	3830	7030
Eastbound	3620	5490
Year 2030 No Build Alternative		
Westbound	4780	10210
Eastbound	3730	6260
Year 2030 4-Lane Alternative		
Westbound	4820	12180
Eastbound	3740	7450
Year 2030 6-Lane Alternative		
Westbound	5340	13140
Eastbound	4000	7880



Exhibit 4-25. A.M. Peak Volume and Mode Choice

SR 520 Bridge Replacement and HOV Project

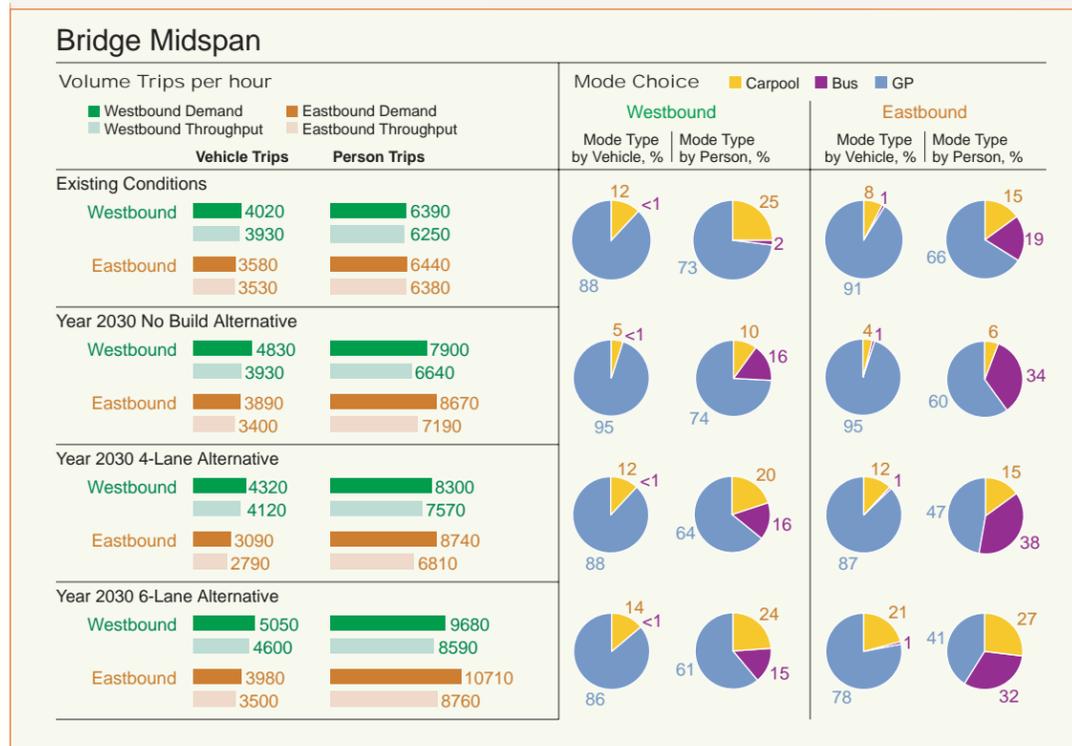
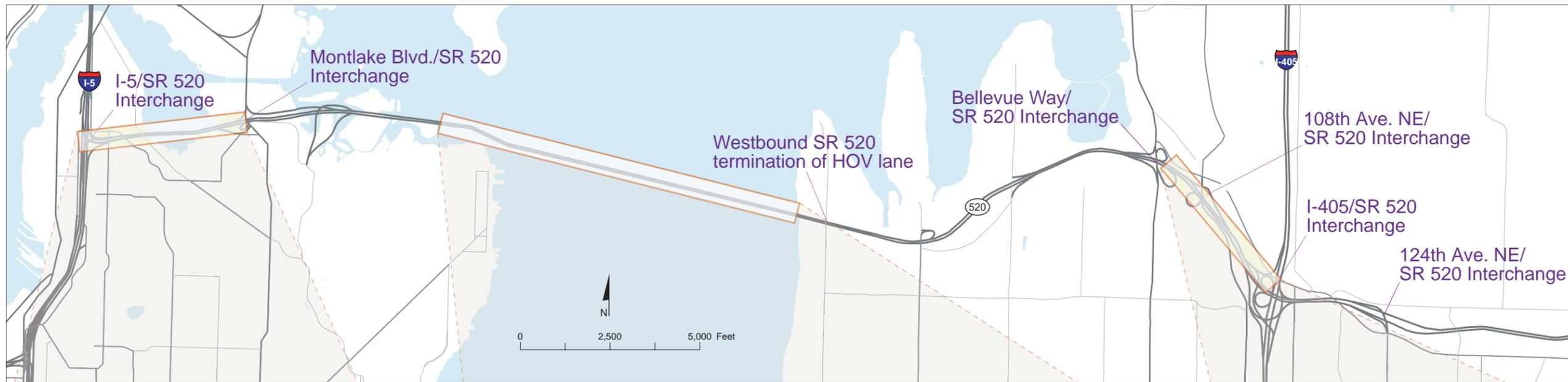
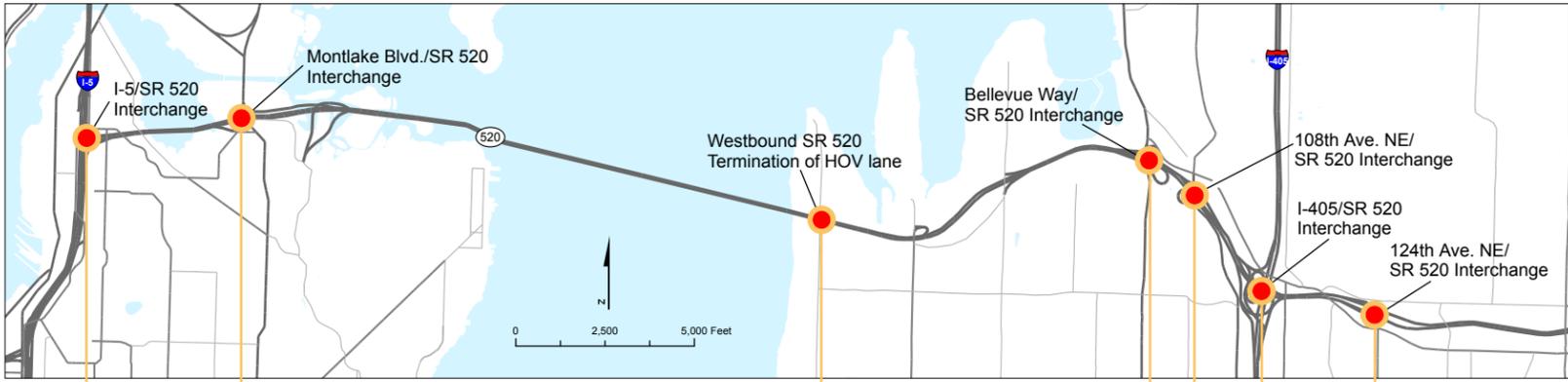
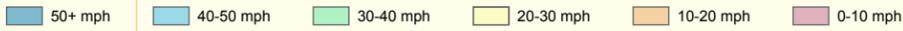


Exhibit 4-26. P.M. Peak Volume and Mode Choice
SR 520 Bridge Replacement and HOV Project



Between I-5 and 124th Ave. NE

General Purpose Travel Speed



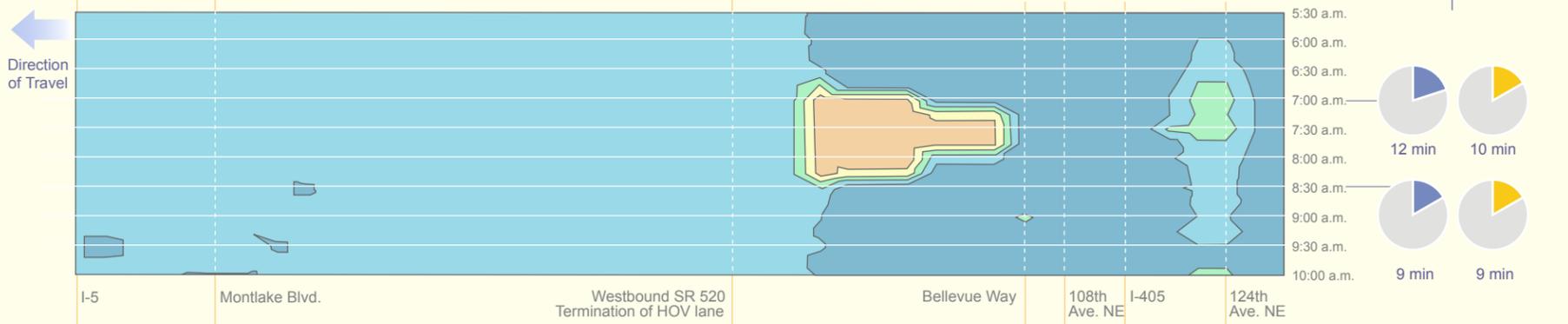
Travel Time

From 124th Ave. NE to I-5

Existing Conditions

Persons per hour served across the bridge: **6,810**

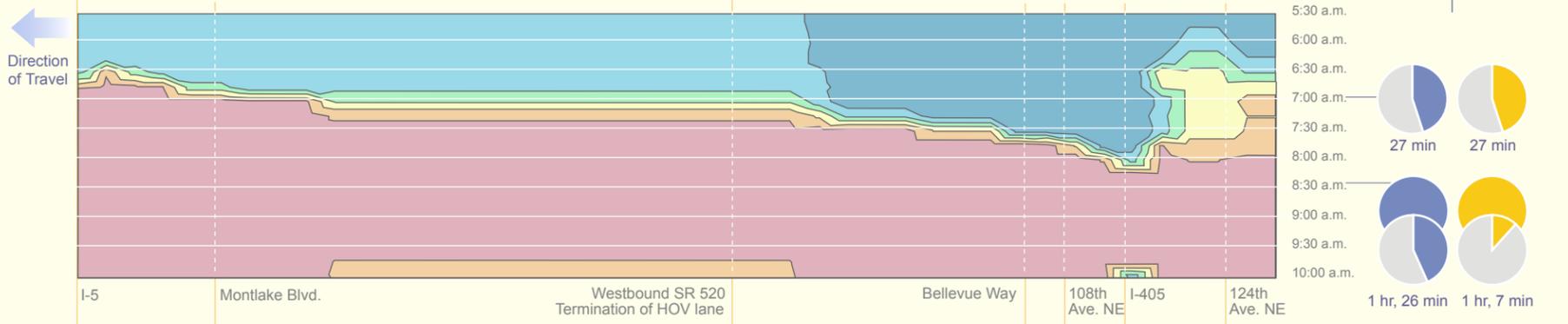
GP HOV



No Build Alternative

Persons per hour served across the bridge: **6,320**

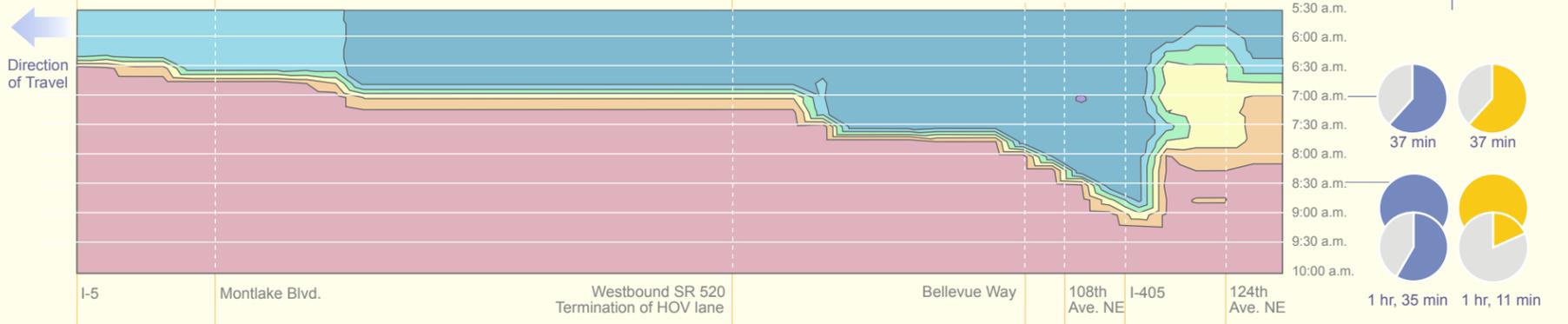
GP HOV



4-Lane Alternative

Persons per hour served across the bridge: **7,020**

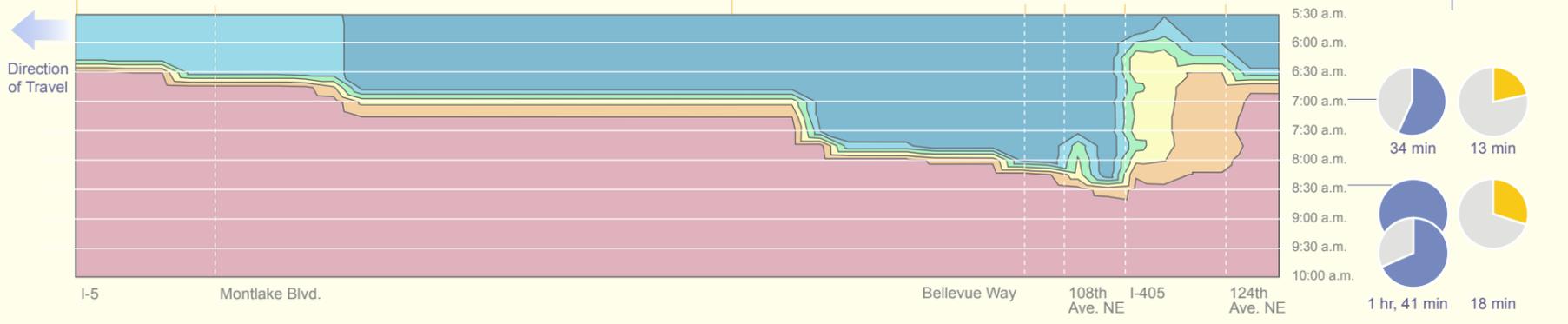
GP HOV



6-Lane Alternative

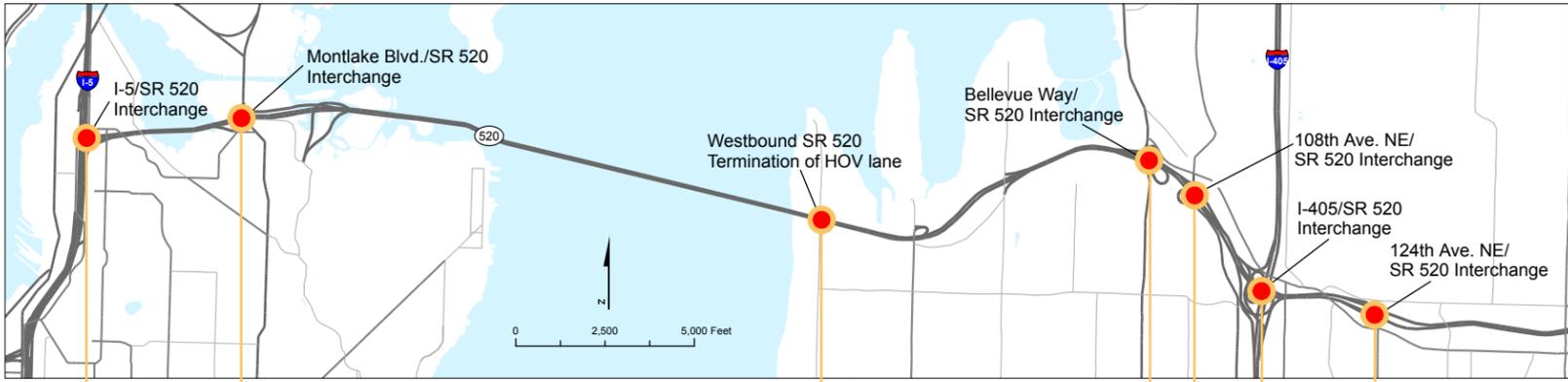
Persons per hour served across the bridge: **8,720**

GP HOV



Note: Persons served across the bridge refers to the average number of persons served during the specified peak period.





Between I-5 and 124th Ave. NE

General Purpose Travel Speed



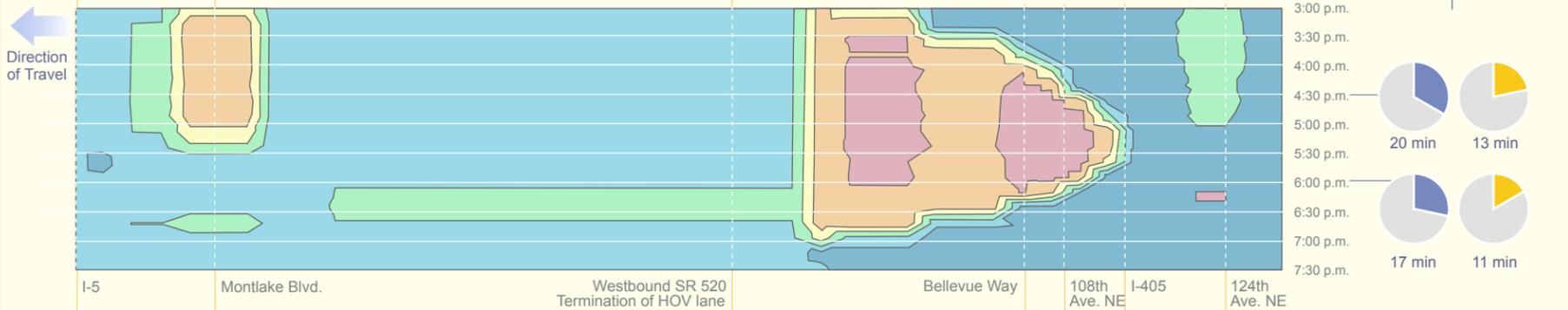
Travel Time

From 124th Ave. NE to I-5

Existing Conditions

Persons per hour served across the bridge: **6,250**

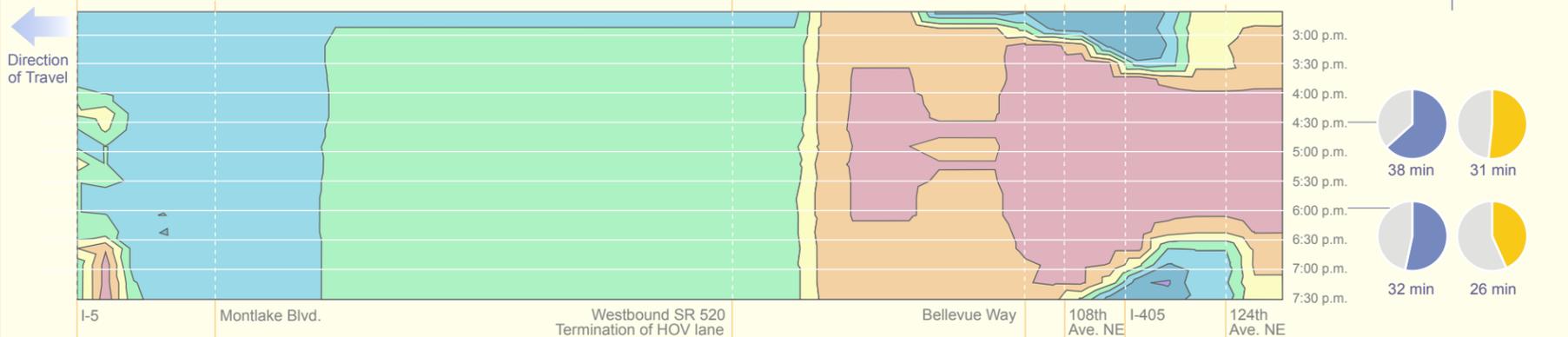
GP HOV



No Build Alternative

Persons per hour served across the bridge: **6,640**

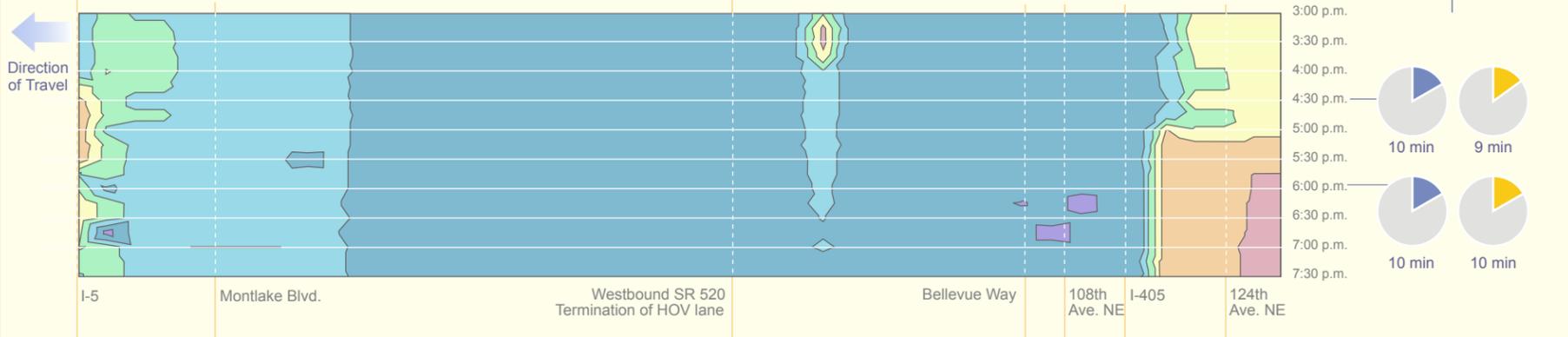
GP HOV



4-Lane Alternative

Persons per hour served across the bridge: **7,570**

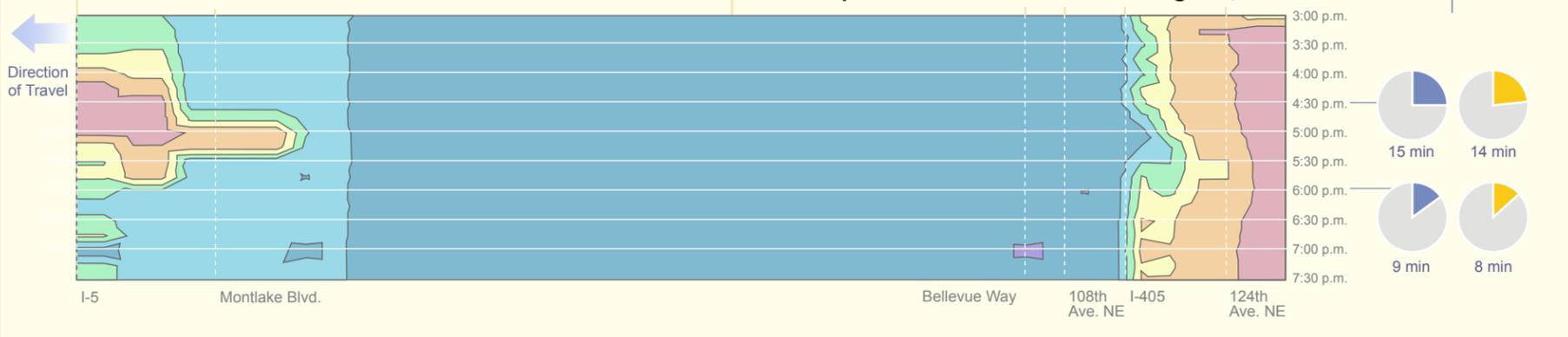
GP HOV



6-Lane Alternative

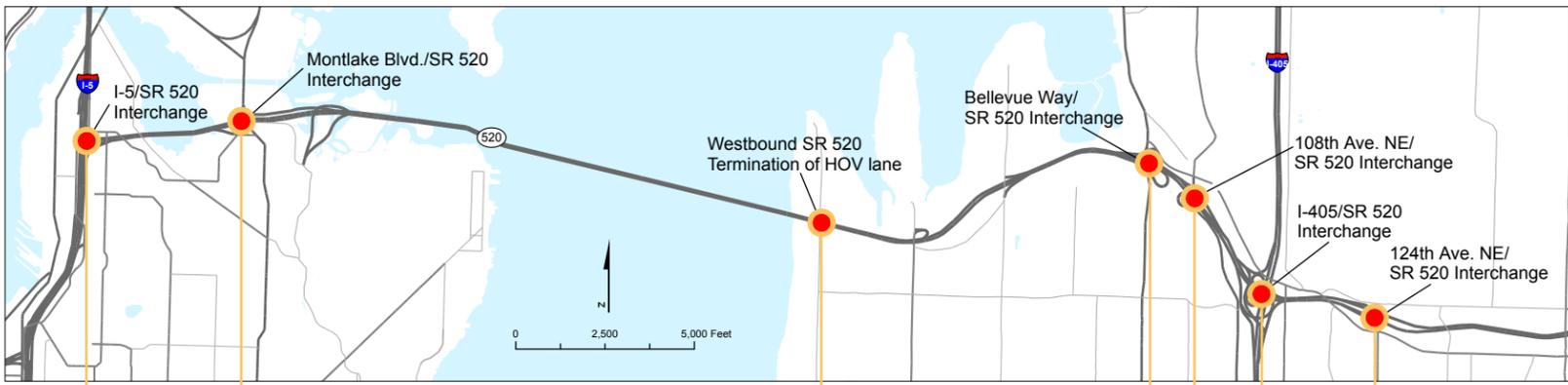
Persons per hour served across the bridge: **8,590**

GP HOV



Note: Persons served across the bridge refers to the average number of persons served during the specified peak period.





Between I-5 and 124th Ave. NE

General Purpose Travel Speed



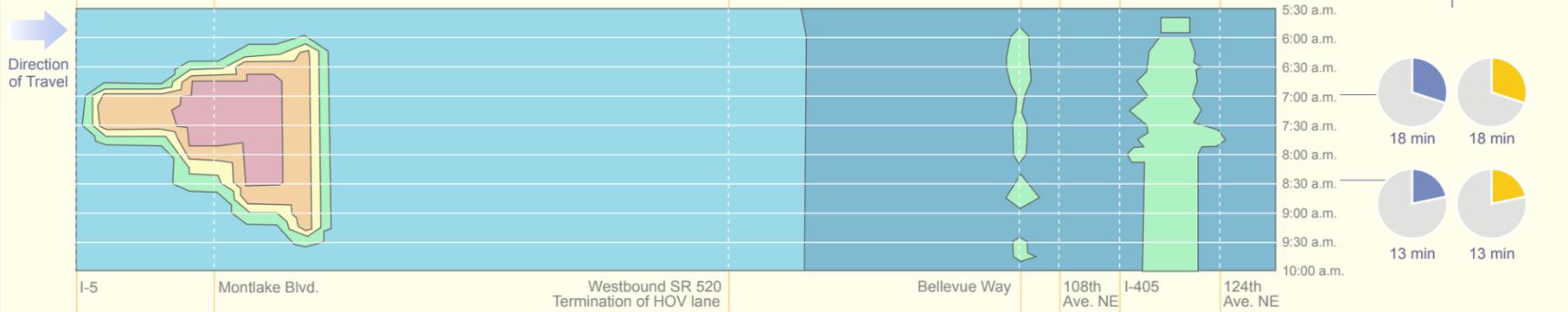
Travel Time

From 124th Ave. NE to I-5

Existing Conditions

Persons per hour served across the bridge: **5,430**

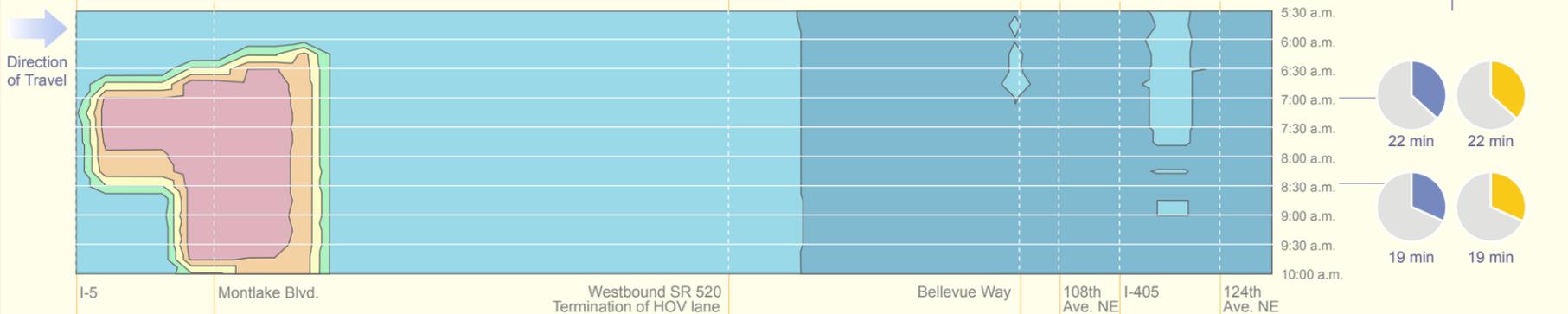
■ GP ■ HOV



No Build Alternative

Persons per hour served across the bridge: **6,100**

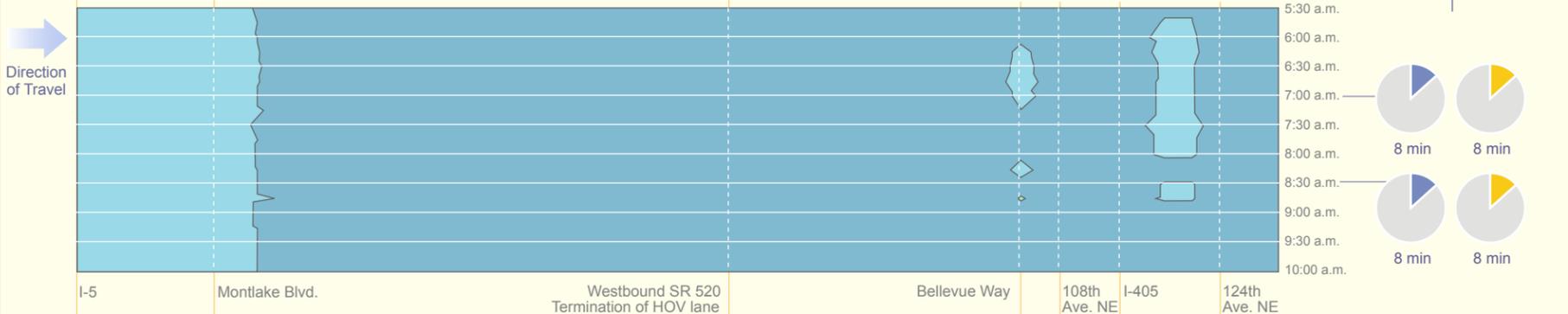
■ GP ■ HOV



4-Lane Alternative

Persons per hour served across the bridge: **5,790**

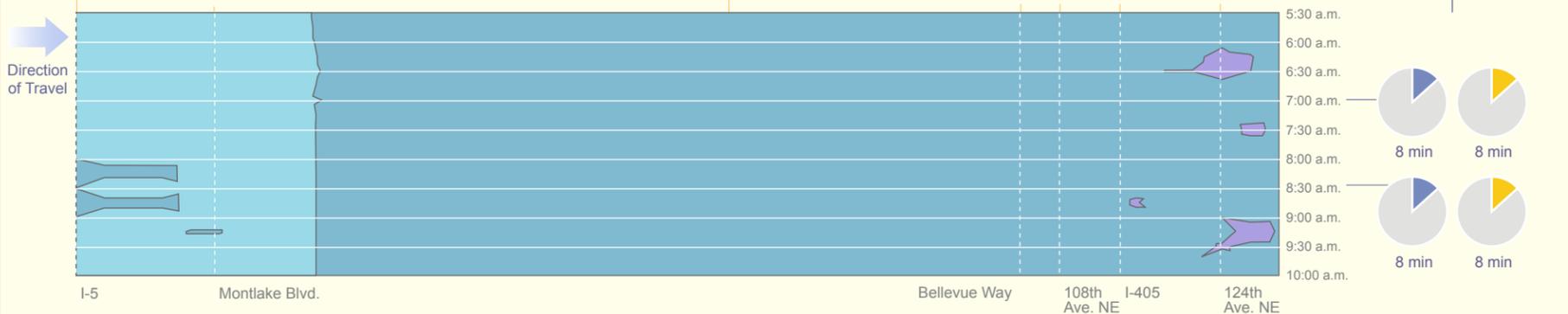
■ GP ■ HOV



6-Lane Alternative

Persons per hour served across the bridge: **6,900**

■ GP ■ HOV



Note: Persons served across the bridge refers to the average number of persons served during the specified peak period.



Exhibit 4-29. Eastbound A.M. Peak Period Freeway Operations

SR 520 Bridge Replacement and HOV Project

