

City of Bellevue: Transportation Challenges & Priorities



**Presentation to the Washington State Transportation Commission
November 16, 2010**

Today's Presentation:

1. Bellevue's Regional Mobility Priorities
2. Regional progress over last decade
3. Short and Longer-Term Needs

Bellevue's Regional Transportation Priorities

➤ Four Major Regional Transportation Components:

- *Regional Bus connectivity*
- *High Capacity Transit/Light Rail coming in 2021*
- *Highway Improvements*
- *HOV Performance*



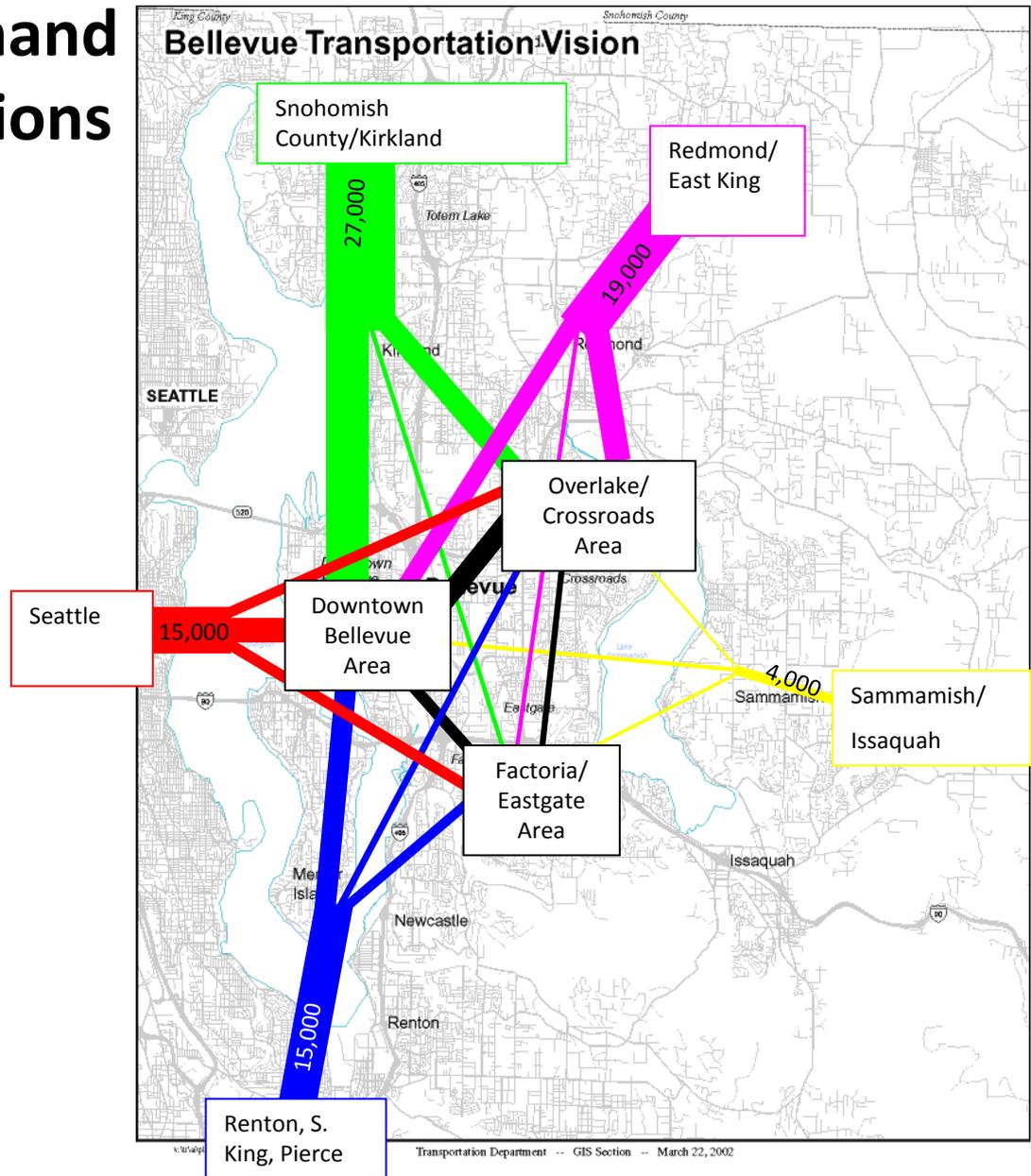
- Regional Strategy -- primary focus on **Downtown** and **Bel-Red Area** redevelopment where growth is focused and demand for mobility is greatest
- Quick status update on each component; special focus on highway and HOV given the Commission's charge and Bellevue's outstanding regional needs

Downtown Travel Demand 2030 AM Peak Projections

(Reliance on I-90, I-405 and SR 520)

Observations:

- Intense commuter trip growth from outlying areas – a reflection of residential growth
- Cross-Lake Washington volumes constrained
- Downtown Bellevue and Bellevue-Red Area are major draws

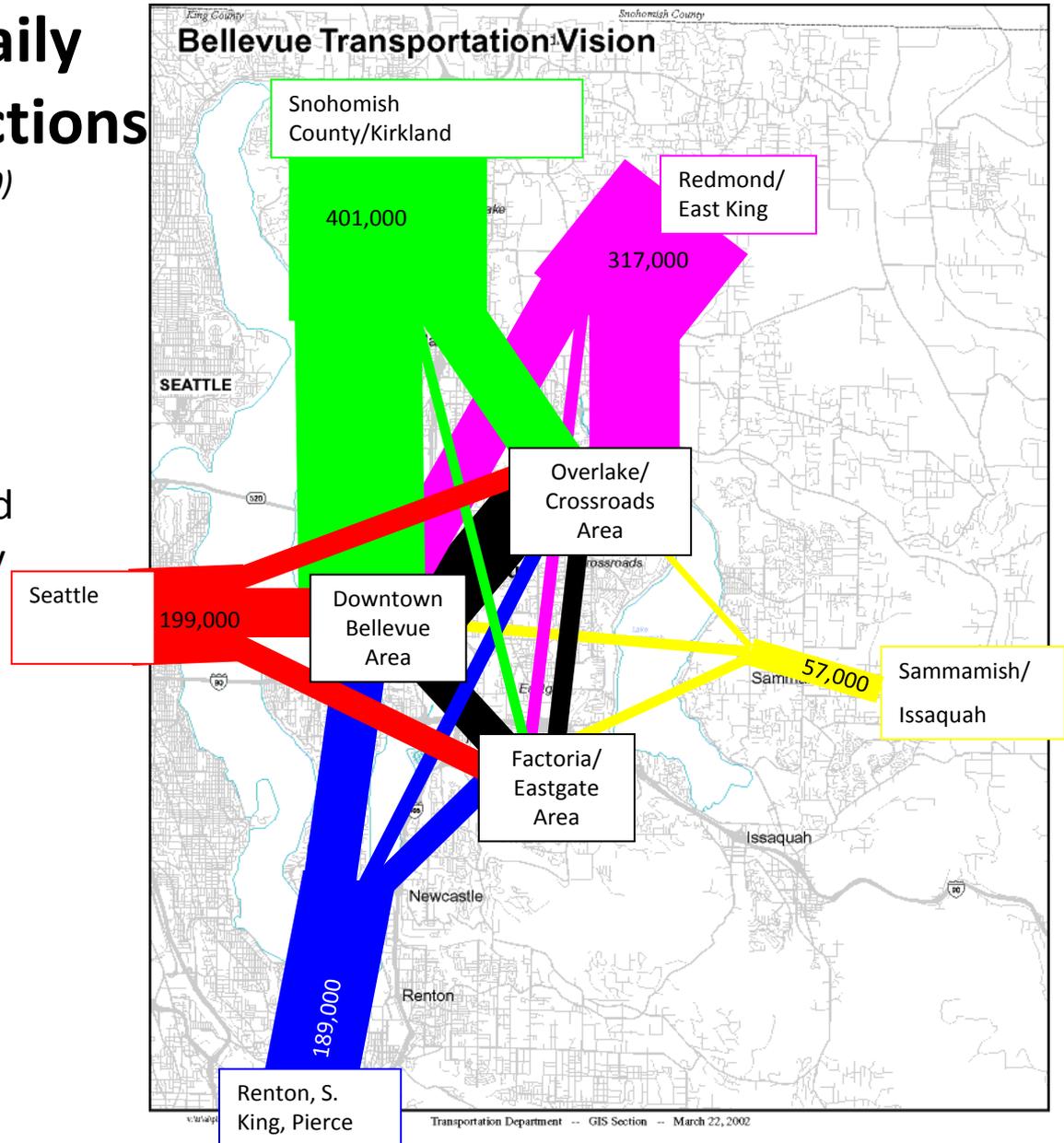


Downtown 2030 Daily Travel Demand Projections

(Reliance on I-90, I-405 and SR 520)

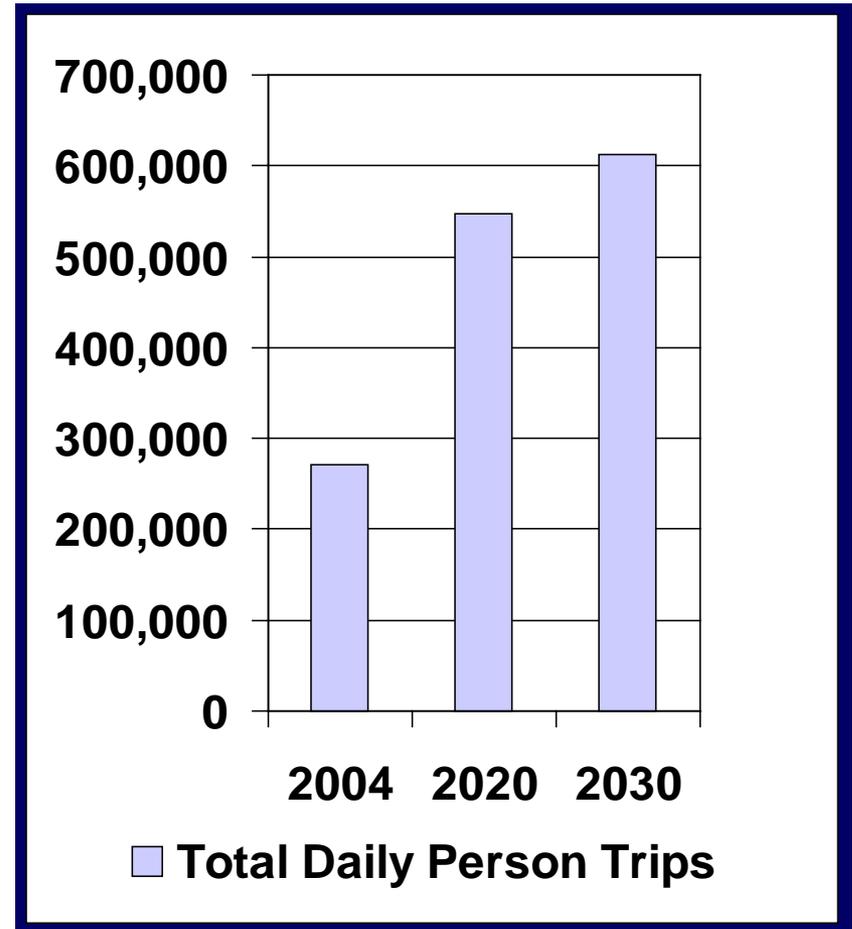
Observations:

- Regional residential growth reflected in travel demands, particularly on I-405 corridor and from Redmond/East King County
- Cross-Lake Washington trips limited by assumed capacity constraints
- Increasing intra-Bellevue trips



Downtown Travel Demand: Person Trip Forecast

- Continued development will cause total daily person trips to grow by 102% by 2020 & 126% by 2030
- Increase assumes transit mode share grows to 40% by 2020 to keep downtown functional (*home-based work trips per the 2000 Downtown Implementation Plan*)
 - Increasing reliance on transit in the long-term



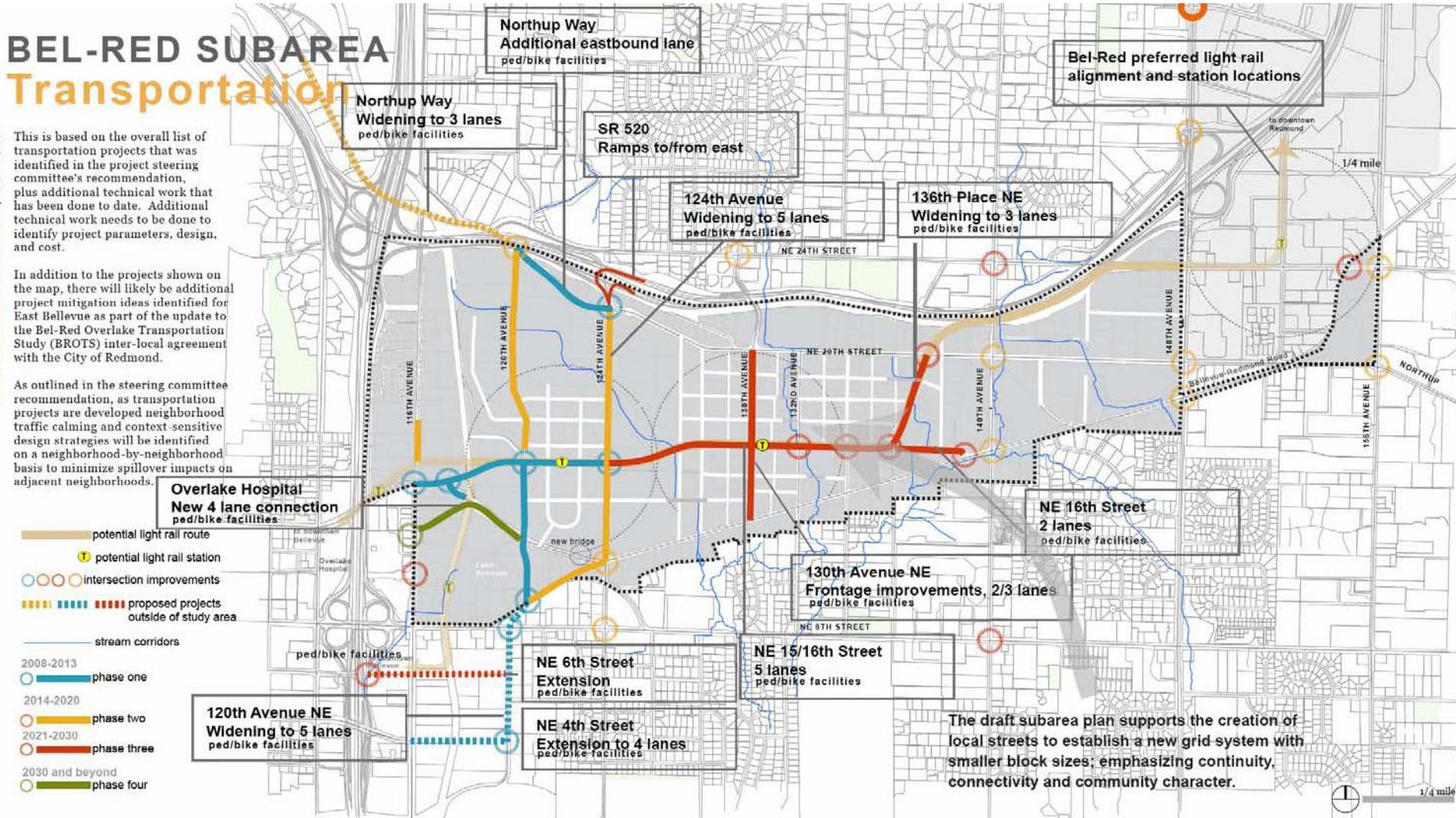
Projects to Support Bel-Red Redevelop Area

BEL-RED SUBAREA Transportation

This is based on the overall list of transportation projects that was identified in the project steering committee's recommendation, plus additional technical work that has been done to date. Additional technical work needs to be done to identify project parameters, design, and cost.

In addition to the projects shown on the map, there will likely be additional project mitigation ideas identified for East Bellevue as part of the update to the Bel-Red Overlake Transportation Study (BROTS) inter-local agreement with the City of Redmond.

As outlined in the steering committee recommendation, as transportation projects are developed neighborhood traffic calming and context-sensitive design strategies will be identified on a neighborhood-by-neighborhood basis to minimize spillover impacts on adjacent neighborhoods.



Overlake Hospital
New 4 lane connection
ped/bike facilities

Northrup Way
Additional eastbound lane
ped/bike facilities

Northrup Way
Widening to 3 lanes
ped/bike facilities

SR 520
Ramps to/from east

124th Avenue
Widening to 5 lanes
ped/bike facilities

136th Place NE
Widening to 3 lanes
ped/bike facilities

Bel-Red preferred light rail alignment and station locations

130th Avenue NE
Frontage improvements, 2/3 lanes
ped/bike facilities

NE 16th Street
2 lanes
ped/bike facilities

NE 15/16th Street
5 lanes
ped/bike facilities

NE 6th Street
Extension
ped/bike facilities

NE 4th Street
Extension to 4 lanes
ped/bike facilities

120th Avenue NE
Widening to 5 lanes
ped/bike facilities

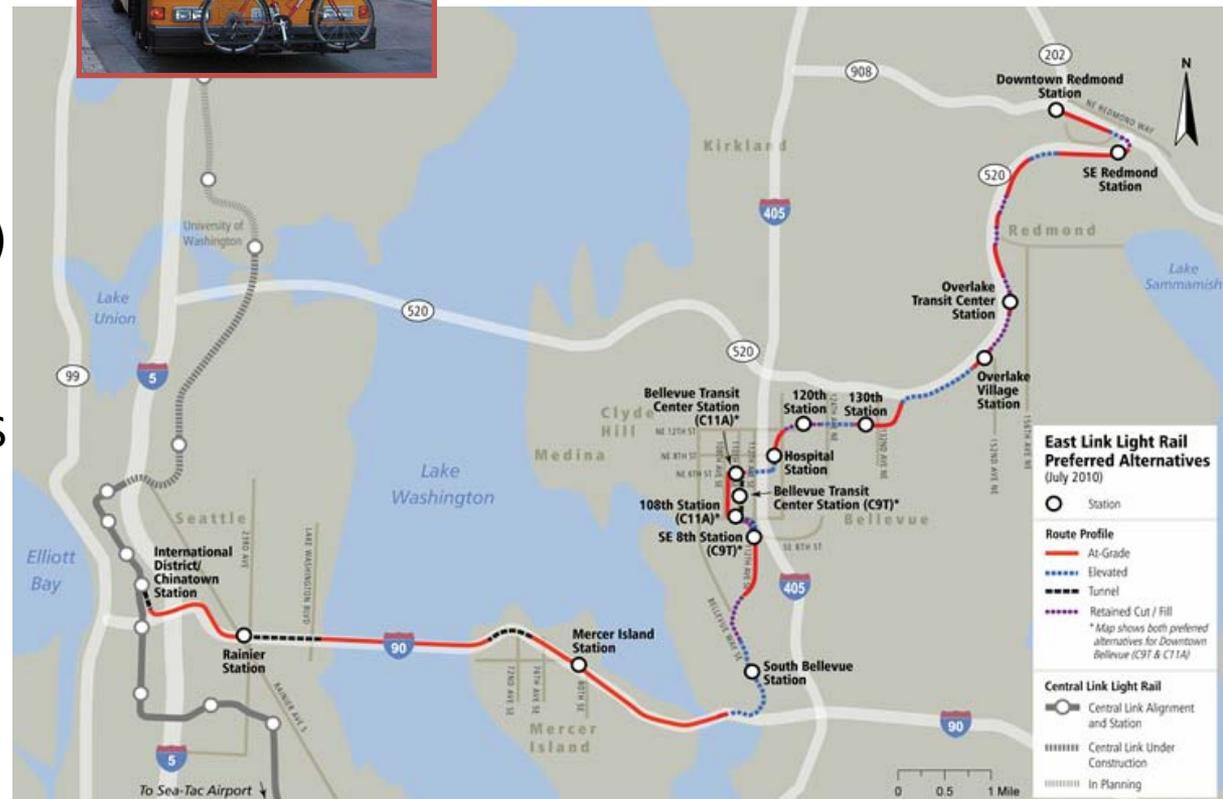
The draft subarea plan supports the creation of local streets to establish a new grid system with smaller block sizes, emphasizing continuity, connectivity and community character.

Regional Bus Transit & High Capacity Transit (East Link [Light Rail])

- **Short-Term:** Sound Transit Regional Express (Sound Transit Phase 1) in combination with King County Metro provides short-term mobility for Downtown and Bel-Red and rest of other activity nodes (Eastgate, Crossroads, Factoria)
- **Longer-term:** East Link Light Rail (Sound Transit Phase 2) EIS work near completion; final design begins in 2011; project opening (downtown Seattle to Overlake in 2021)



East Link Project



Highway Improvements: Completed and Planned

(1) I-405

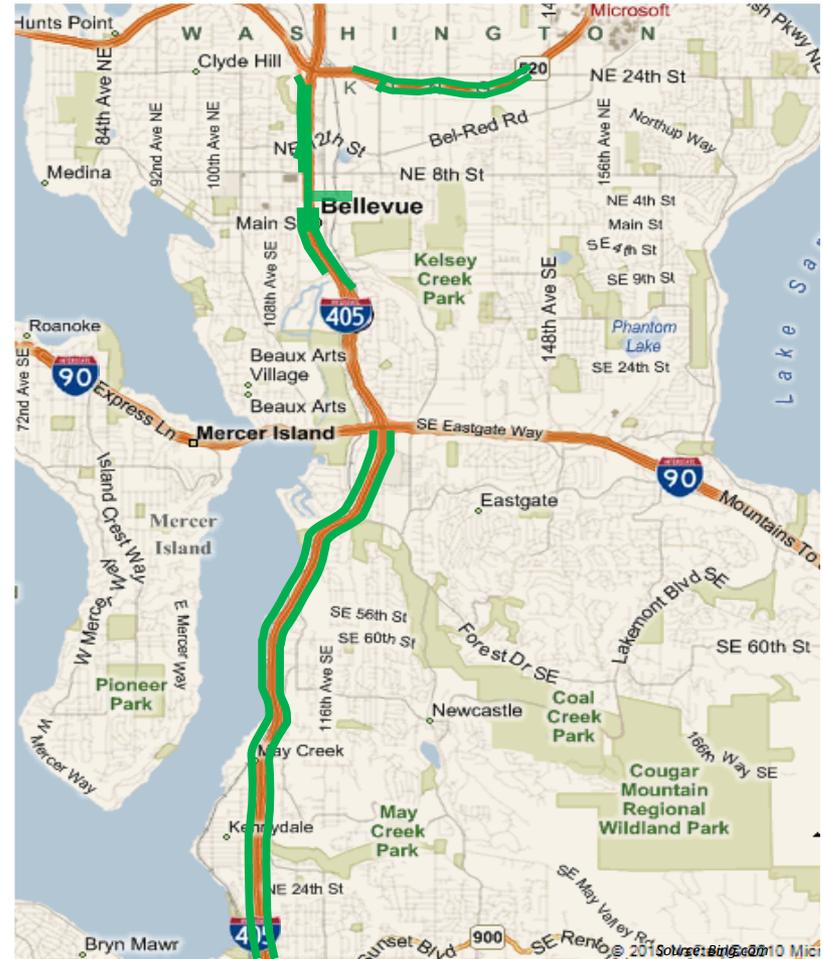
- *Completed & Under Construction*
- *Needs Funding*

(2) SR 520

- *Funded*
- *Needs Funding*

(3) I-90

- *Status of Two-Way Transit/HOV Project*



I-405 Bellevue Area Projects - Completed and under Construction

NE 6th Street HOV Direct Access

Interchange (4th, 6th, 8th)

- Completed - \$139 million total

NE 10th Street Extension , arterial improvement (116th and 112th) & provision for future ramp connections to/from SR 520

- Completed - \$64 million total

I-405 South Bellevue Widening Project, 112th Ave SE to SE 8th St:

- Completed - \$200 million total

I-405 Northbound Braided Ramp to SR 520

- Under Construction (2010 – 2012)
- Construction design-build award of \$107 million

Added System Benefits

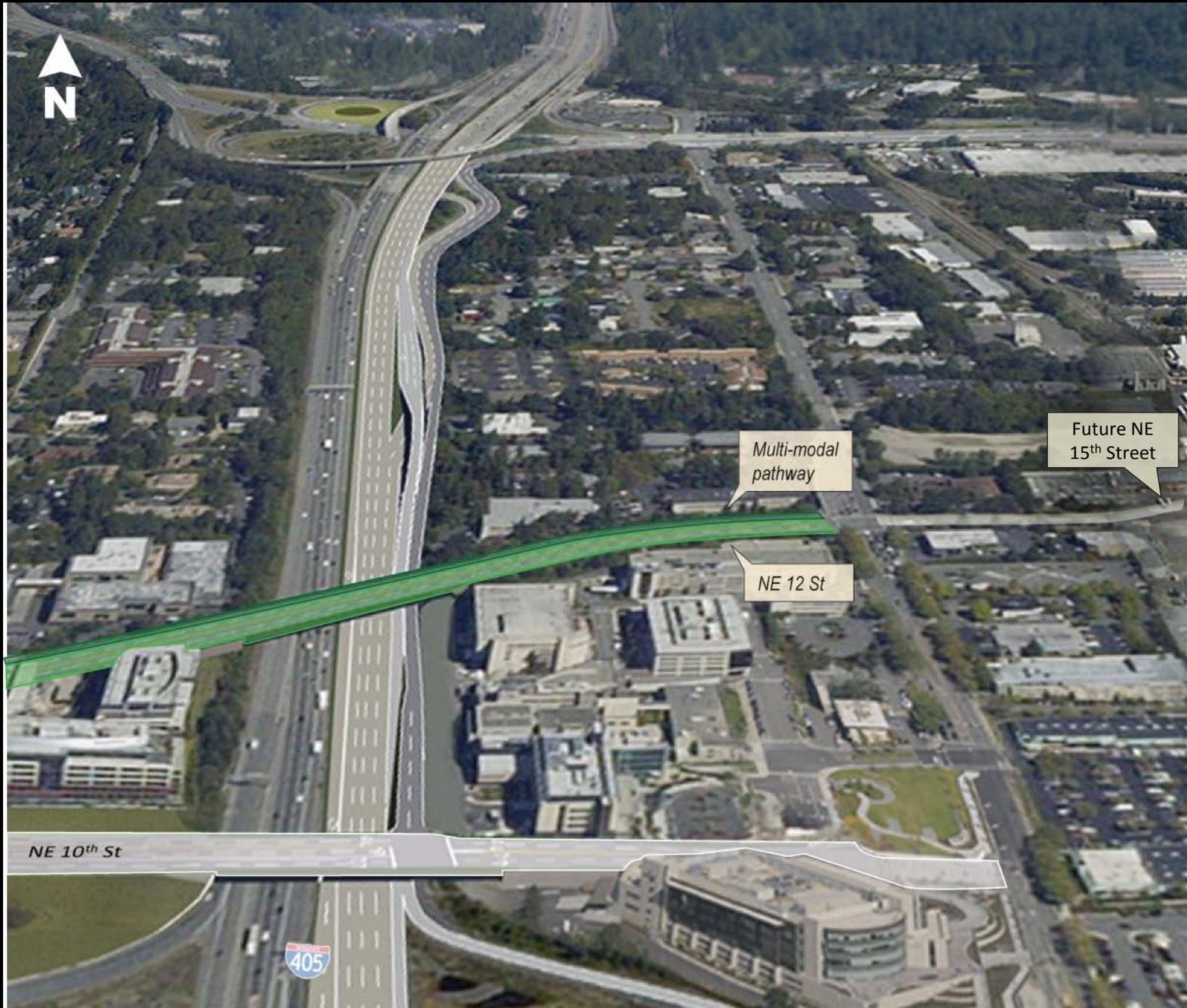
Non-Motorized Enhancements include:

- Sidewalks
 - NE 10th St
 - 112th Ave NE
- Multi-Use and/or Bike facilities
 - 112th Ave NE widened NB lane
 - NE 12th Street multi-purpose path

Environmental enhancements include:

- Kelsey Creek wetland re-establishment
 - 3.5 Acres
- Stormwater treatment/detention and enhanced landscaping at NE 10th/112th

Hovering above NE 8th Street facing North



Multi-modal pathway

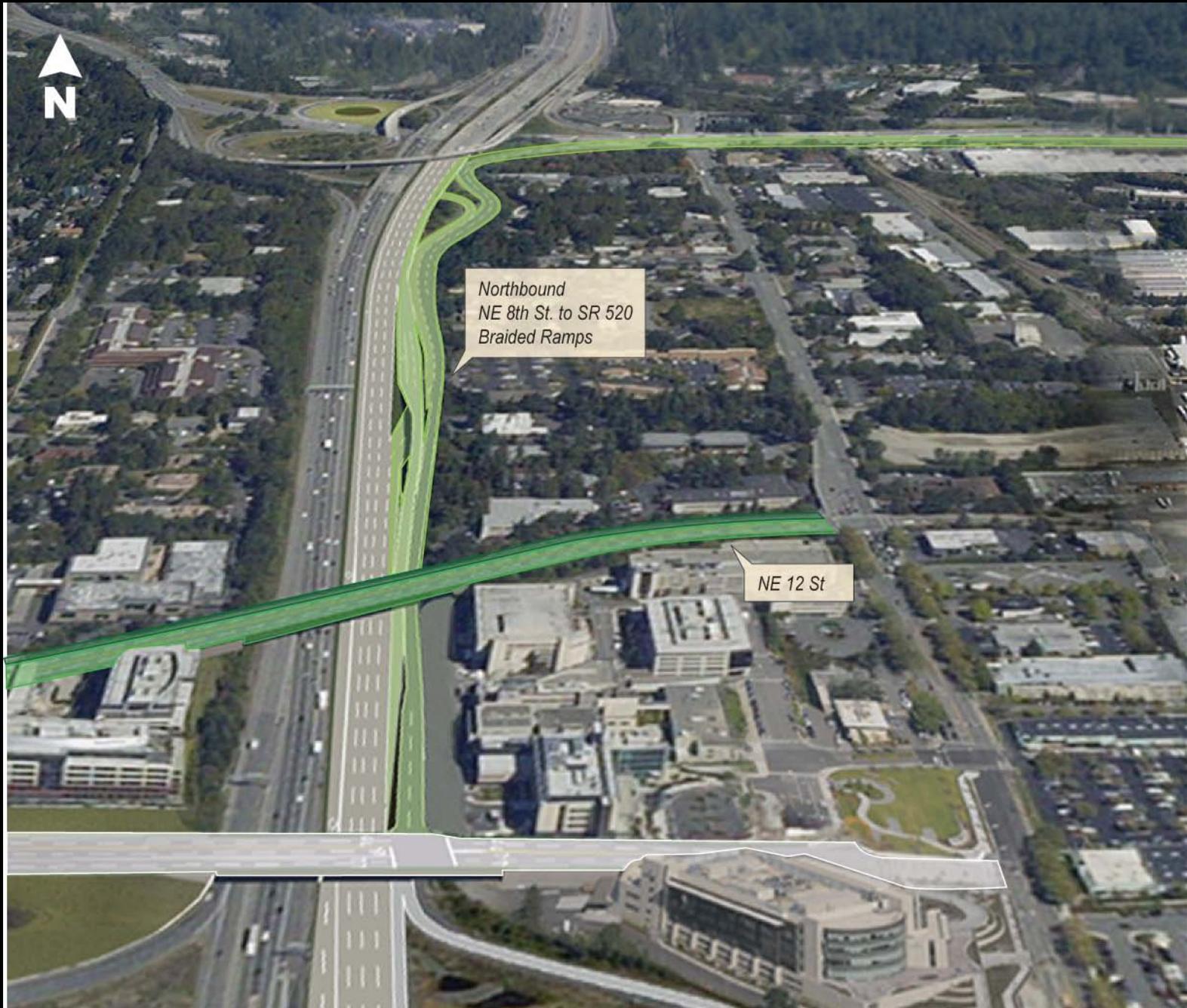
Future NE 15th Street

NE 12 St

NE 10th St



Hovering above NE 8th Street facing North



Northbound
NE 8th St. to SR 520
Braided Ramps

NE 12 St

Hovering above NE 8th Street facing North



Hovering above NE 8th Street facing North



Hovering above NE 8th Street facing North



Hovering above NE 8th Street facing North



Hovering above NE 12th Street facing South



NE 6th extension
to 120th Avenue

Phase 1
Main Street

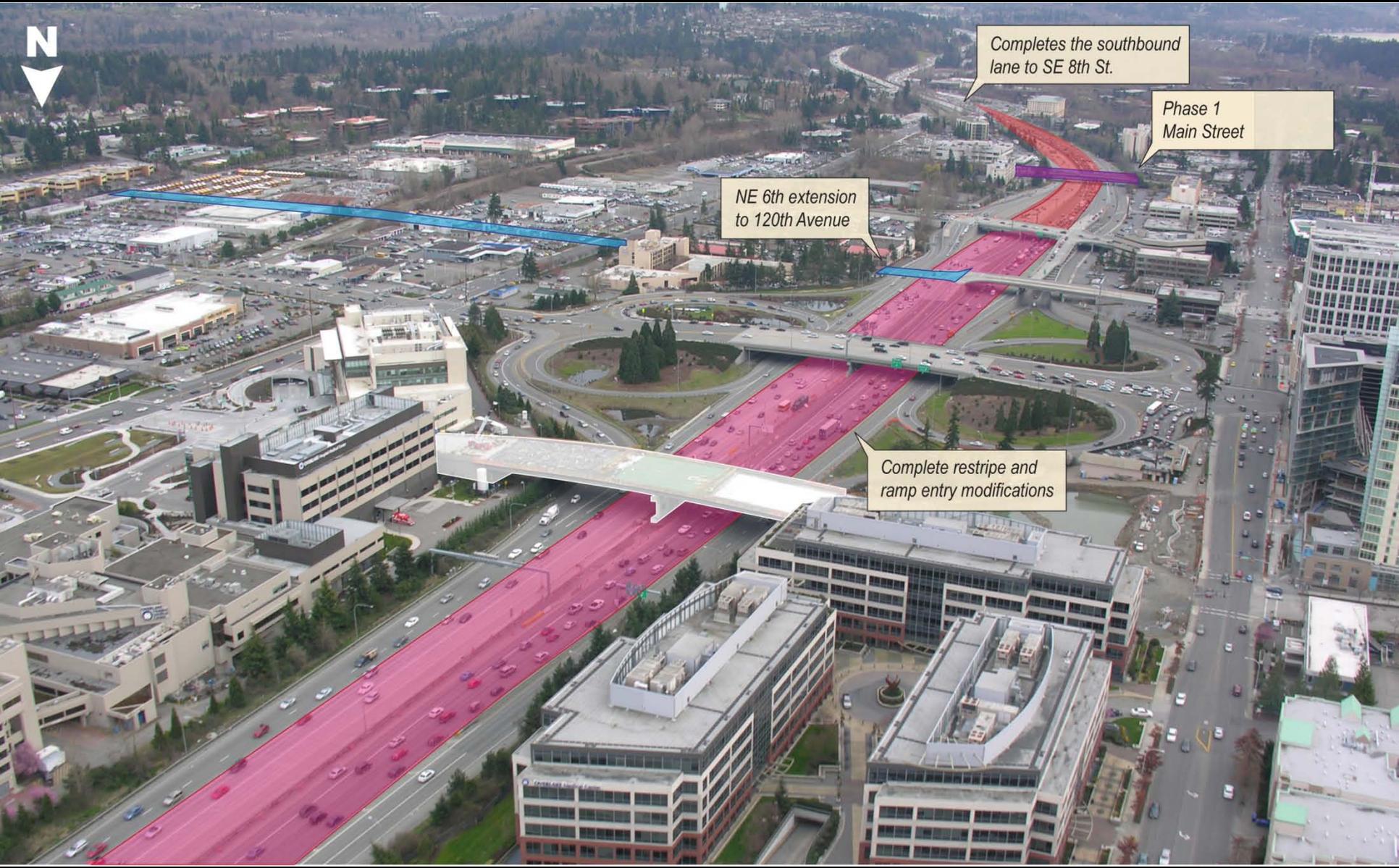
Complete restripe and
ramp entry modifications

NE 10th St

NE 8th St



Hovering above NE 12th Street facing South



Completes the southbound lane to SE 8th St.

Phase 1
Main Street

NE 6th extension
to 120th Avenue

Complete restripe and
ramp entry modifications

Hovering above NE 12th Street facing South



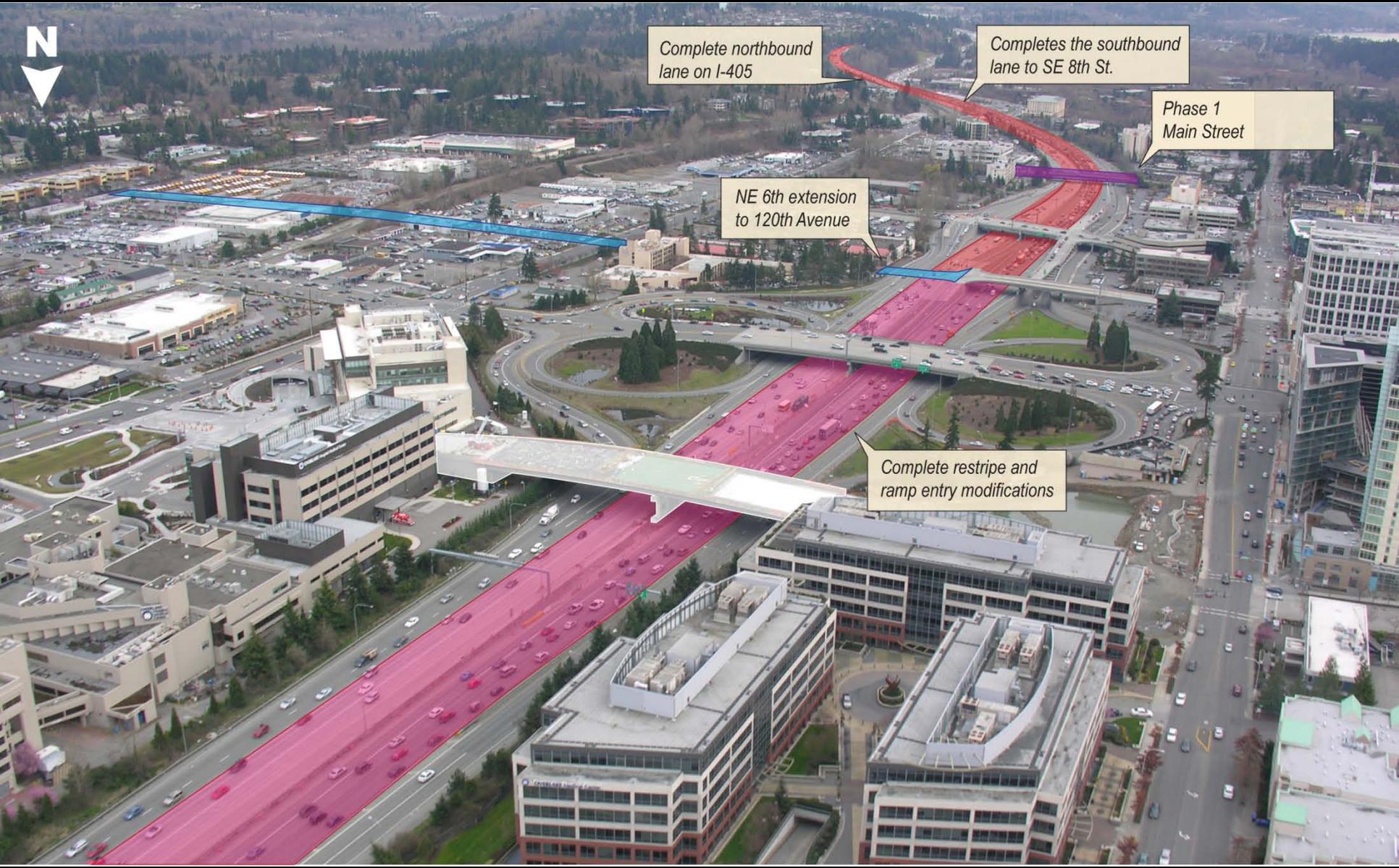
Complete northbound lane on I-405

Completes the southbound lane to SE 8th St.

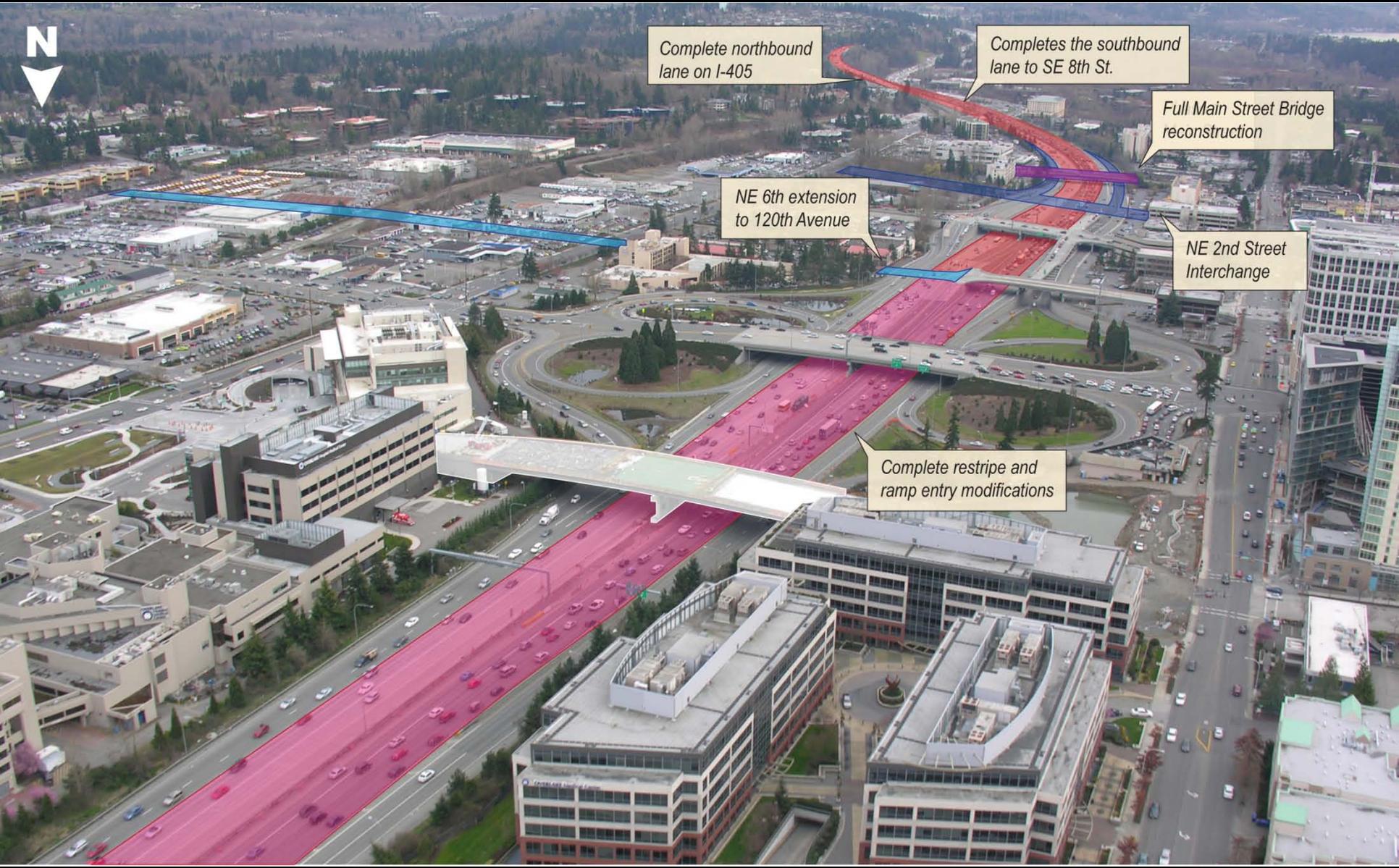
Phase 1 Main Street

NE 6th extension to 120th Avenue

Complete restripe and ramp entry modifications



Hovering above NE 12th Street facing South



Complete northbound lane on I-405

Completes the southbound lane to SE 8th St.

Full Main Street Bridge reconstruction

NE 6th extension to 120th Avenue

NE 2nd Street Interchange

Complete restripe and ramp entry modifications

I-405 Corridor – Planned & Proposed Local Projects

Unfunded:

I-405 Southbound Braided Ramp from SR 520 to NE 10th Street

- Estimated range - \$150 - \$200 million (2005 dollars)

NE 6th Street Extension (I-405 to 120th)

- Pre-Design funded - \$1 million
- Estimated range - \$60 – \$75 million (2009 dollars)

I-405 – Complete one lane in each direction

- **NE 4th - SE 8th /116th Ave SE ramps, restripe/ramp modifications, and Main St interim bridge modification**
- \$150 - \$200 million (2009 dollars)

NE 2nd Street Interchange/Main Street Bridge

- Ramps to/from south I-405
- Realignment of Collector Distributor (CD)
- Full Main Street Bridge reconstruction
- Estimated Range - \$450 - \$500 million (2005 dollars)

I-405 Renton to Bellevue (I-90 to SR 169)

ETS Option 4 (1 lane in each direction) \$750 - \$825 million (2009 dollars)

SR 520 Program Summary:

Program budget \$4.65 Billion

The SR 520 Bridge Replacement and HOV Program will replace the Portage Bay and Evergreen Point bridges and improve the existing roadway between I-5 in Seattle and SR 202 on the Eastside.

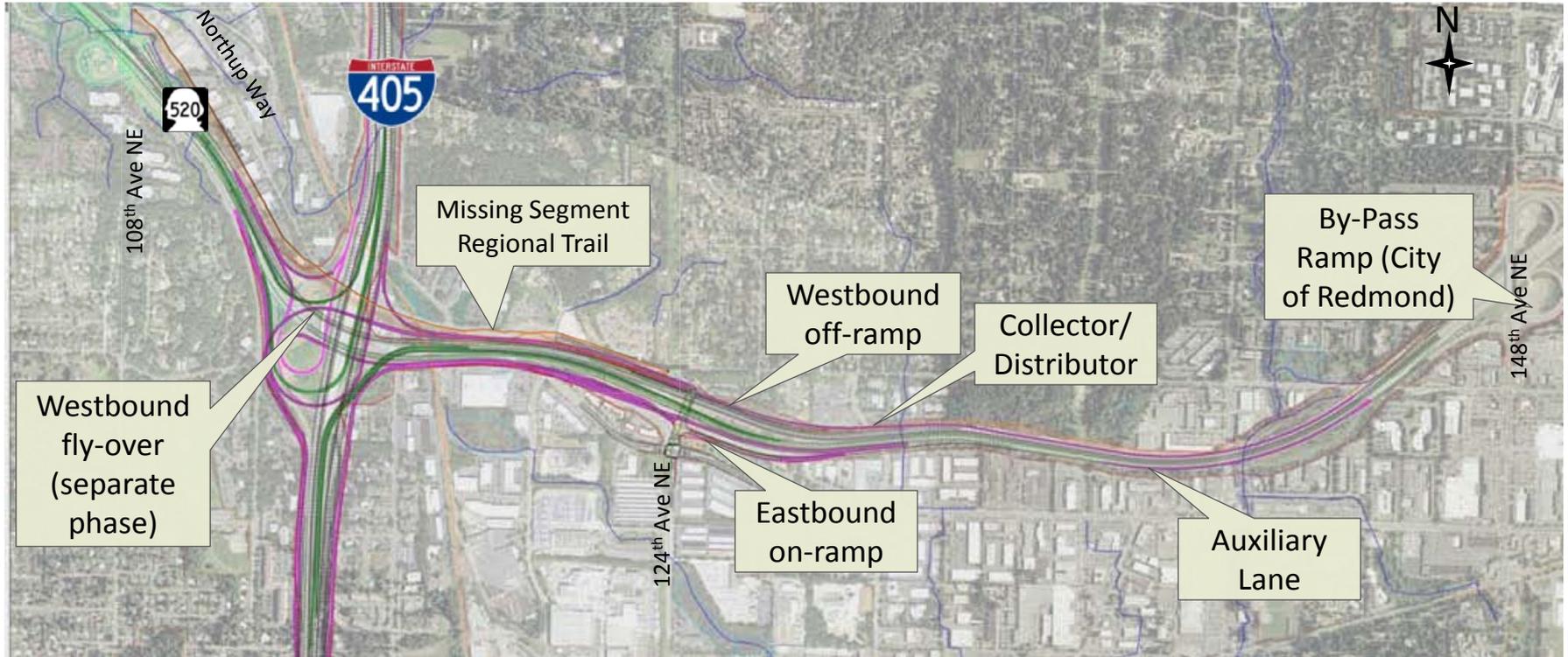
The SR 520 Bridge Replacement and HOV Program includes four projects:

- I-5 to Medina: Bridge Replacement and HOV Project** – Replaces the SR 520 floating bridge and landings, and interchanges and roadway between I-5 and the eastern shore of Lake Washington.
- Medina to SR 202: Eastside Transit and HOV Project** – Completes and improves the transit and HOV system from Evergreen Point Road in Medina to the SR 202 interchange in Redmond.
- Lake Washington Congestion Management Project** – Implements tolls on the existing SR 520 floating bridge, and activates Smarter Highways features from I-5 to I-405.
- Pontoon Construction Project** – Advances pontoon construction to restore the floating section of the SR 520 bridge in the event of a catastrophic failure and to store those pontoons until needed.



SR 520/124th Ave NE Interchange:

Full Interchange with ramps to/from east of 124th Ave NE, Auxiliary Lane, Regional Trail



SR 520 Corridor Projects

Funded:

Eastside Transit and HOV Project:

- Lids, Bellevue Way bridge, HOV Direct Access Interchange, regional trail to 108th, and environmental enhancements

Estimated total cost - \$776 million

Unfunded:

124th Avenue NE full interchange added ramps to/from east SR 520 only:

Estimated Range - \$70 - \$110 million
(2009 dollars)

Auxiliary Lane and CD (124th – 148th)

Estimated Range - \$100 - \$110 million
(2009 dollars)

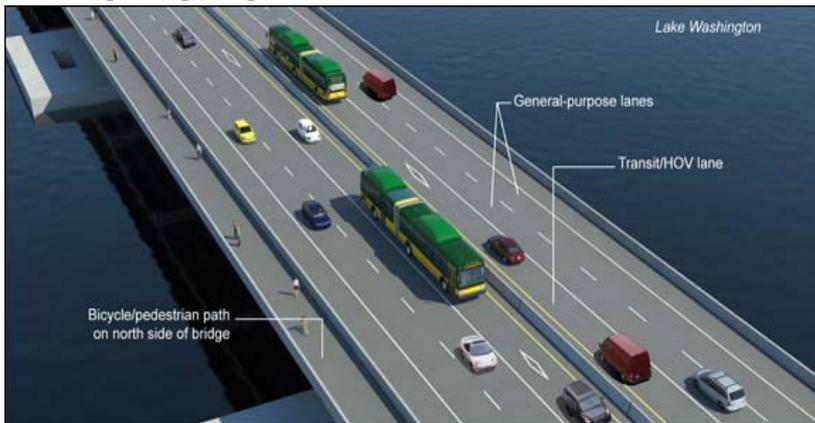
Westbound SR520 to I-405 Southbound Flyover and Collector Distributor connection

Estimated Range - \$200 - \$220 million
(2005 dollars)

148th Avenue NE By-Pass Ramp

Estimated total cost - \$65 million
(2006 dollars)

Floating Bridge segment



I-90 Two-Way Transit/HOV Program (known as "R-8A") Program Summary:

Total Program estimated and funded at \$187.6 million



I-90 R-8A Funded Program:

Construction Schedule

Stage 1: Completed 2008

Stage 2: Under construction
Completion in fall 2012

Stage 3: Construction 2012 – 2014

Applicable Agreements/Actions

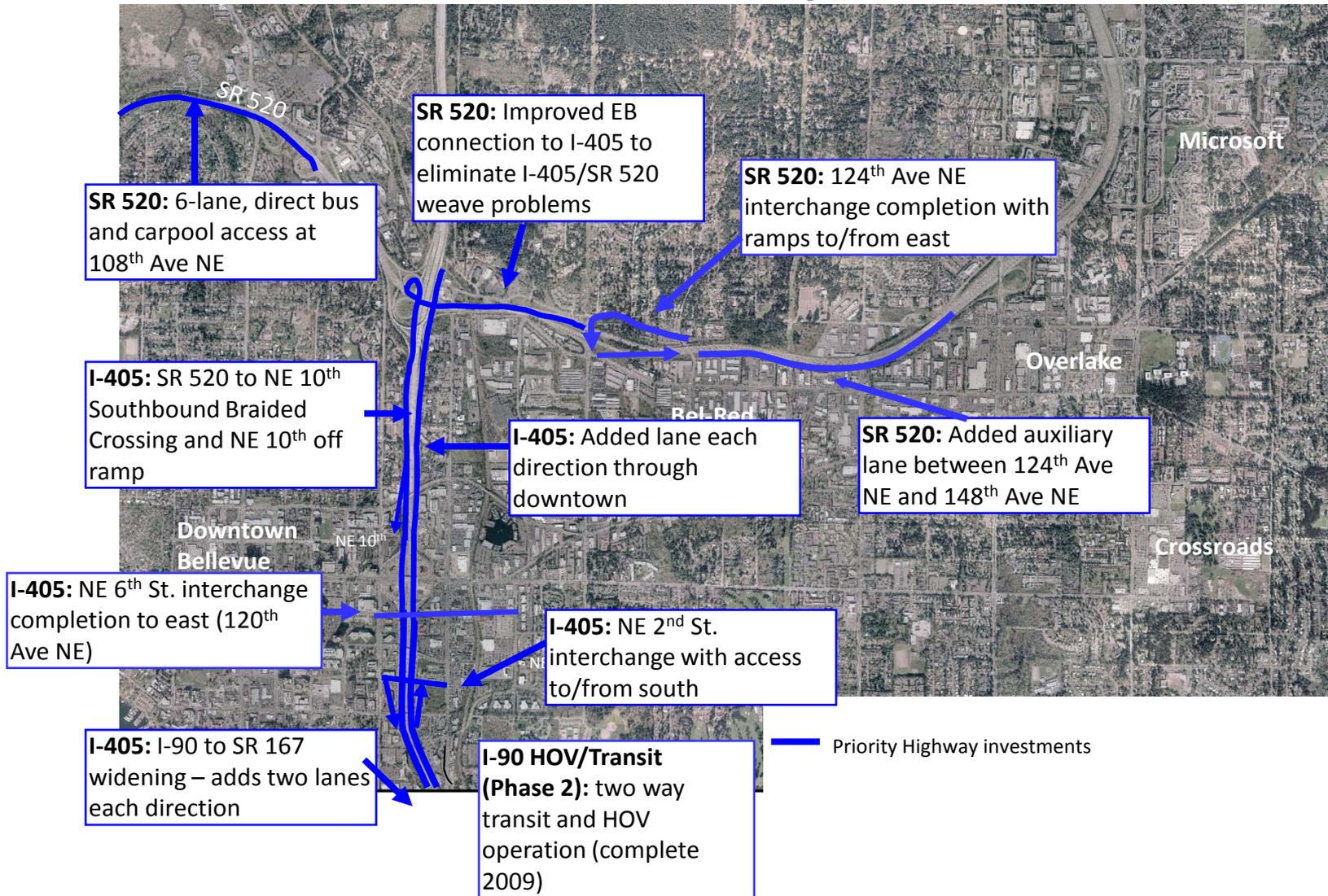
1976 – Memorandum of Agreement (MOA)

2004 MOA Amendment – R-8A & Record of Decision

WSDOT/Sound I-90 Center
Roadway Term Sheet
January 20, 2010

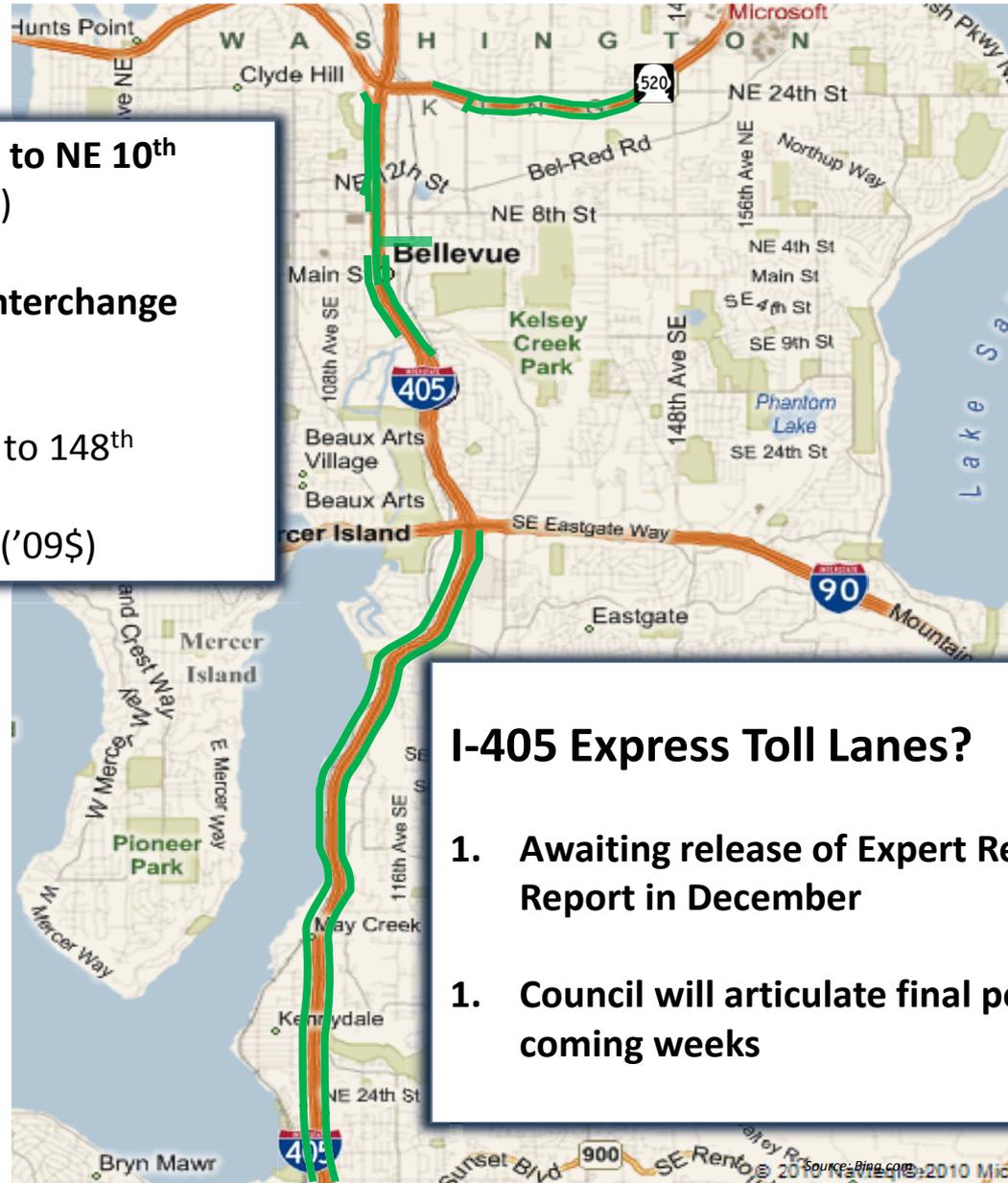


Long Term Regional Highway Improvements (Summary)



Bellevue's Top Near-Term Highway Priorities

1. **SB Braided Ramp – SR 520 to NE 10th**
\$150 – \$200 million ('05\$)
2. **124th Ave NE/SR 520 full interchange including:**
 - Ramps to/from east
 - Partial Auxiliary Lane to 148th
 - Partial CD
\$120 - \$160 million ('09\$)



I-405 Express Toll Lanes?

1. Awaiting release of Expert Review Report in December
1. Council will articulate final position in coming weeks

Questions?