

Express Bus: HOV/Transit Queue Jump Lane on EB SR 520 to NB Bellevue Way NE Off-ramp (E. King County)

Project Number	E13b
Subarea	East King
Primary Mode Impacted	ST Express
Facility Type	Direct Access
Version Number	3.0
Date Last Modified	5/19/2006

Project Locator Map



Short Project Description

Construct interim HOV/transit queue jump lane on EB SR 520 to NB Bellevue Way off-ramp and rebuild the Bellevue Way overpass. These HOV/transit elements will not be needed after the SR 520 Bridge Replacement and HOV Project (which will move the HOV lanes to the inside of SR 520) is completed and an HOV direct access to 108th Avenue NE is constructed.

Project Purpose: Improve transit and HOV speed and reliability to/from the west on SR 520 to/from the South Kirkland park-and-ride.

Cost and Schedule

Cost (in Millions of 2005\$)

Schedule

	Low	High
Agency Admin	\$2.4	\$2.7
Enviro Clearance & PE	\$3.0	\$3.4
Final Design, Specs, Permitting	\$3.0	\$3.4
ROW Acquisition	\$4.9	\$5.7
Construction*	\$24.9	\$28.7
Vehicles	\$0.0	\$0.0
Contingency	\$3.6	\$4.1
Total	\$41.7	\$48.0

Proposed Schedule Not Yet Developed

*Based on Current WSDOT Scoping Cost Estimate

Design Basis	Conceptual
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Environmental Documentation Required

- Environmental Impact Statement Required
- Environmental Assessment Required
- Environmental Checklist Required

Relationships to Other Projects

Relationship	Project
Impacted by	WSDOT funding and implementation of the SR 520 Bridge Replacement and HOV Project (that moves the HOV lanes from the outside to the inside of SR 520). This ST2 project would not be needed or implemented if the SR 520 Bridge project is funded and constructed.

Project Partners

WSDOT
FHWA
KC Metro
Cities of Bellevue, Kirkland and Redmond

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Long Description

This capital project scope, and the companion capital cost estimate, are intended to include the entire project development cycle (agency and project administration, environmental clearance, design, all aspects of property acquisition permits, agreements, construction, testing, commissioning and contingencies) from project initiation through the start-up of operations.

Description

Construct HOV/transit queue jump lane on the off-ramp from eastbound SR 520 to northbound Bellevue Way NE. Replace the existing Bellevue Way NE overpass over SR 520. Provide associated roadway and channelization modifications on Bellevue Way NE and Northup Way NE and freeway on- and off-ramps.

Project Elements Included:

- Add an HOV/Transit queue jump lane on the EB SR 520 to NB Bellevue Way off-ramp and re-align entire off-ramp
- Add a lane to NB Bellevue Way from the EB SR 520 off-ramp to the intersection with Northup Way
- Relocate the NB Bellevue Way to WB SR 520 on-ramp access point from Bellevue Way to Northup Way
- Add a 2nd lane to EB Northup Way between Bellevue Way and the start of the existing 2-lane section (approx. 450 feet west of 108th NE intersection)
- Re-align off-connections for both the EB-to-SB and EB-to-NB ramps to accommodate future SR 520 widening (WSDOT's future freeway widening is not part of this project)
- Add an auxiliary lane to EB SR 520 between the 92nd Avenue and Bellevue Way interchanges
- Replace the existing Bellevue Way overpass with a structure capable of spanning the ultimate future width of SR 520 (WSDOT's future freeway widening is not part of this project)
- Construct associated retaining walls
- Traffic mitigation program during construction

Utilities:

Storm water wetland cell with detention and drainage improvements. Relocate utilities to resolve conflicts as needed to complete the project.

Right-of-Way and Property Acquisition:

Acquire sufficient ROW for project improvements, including storm water facilities, as noted below:

- All of 4 parcels in NW quadrant of interchange to provide ROW for storm water wetland cell with detention
- Affected portions of 3 parcels in SW quadrant of interchange to provide ROW for realigned EB-to-SB off-ramp (2 other affected parcels are already owned by WSDOT)

Mitigation:

The final project scope will include all mitigation(s) committed to by ST in pertinent, future project-level environmental documents.

Exclusions:

- Widening of SR 520 (WSDOT's SR 520 Bridge Replacement and HOV Project)
- Repaving or Reconstruction of local streets (other than paving of new lanes identified above in Project Elements)
- Signal improvements/modifications at Bellevue Way/Northup intersection

Permits Required:

Electrical, utility, and construction related

Agreements Required:

Partnership agreement with WSDOT
Access Decision Report - FHWA

ST has developed scope definitions for ST2 project proposals for the purposes of developing cost estimates, implementation schedules, a financial plan, and the estimation of project benefits. This scope definition should not be construed as a commitment that all defined features will be included in the final developed project.

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Evaluation Measures

<i>Measure</i>	<i>Measurement/ Rating</i>	<i>Notes</i>
Average Weekday Ridership	N/A	
Capital Cost	\$41.7 - \$48.0	in Millions of 2005\$
Annual Operating Cost	\$0.0	in Millions of 2005\$
Travel Time & Reliability	Medium	
Connectivity & Integration	Medium	
Land Use & Development	Low	
Customer Experience	Medium	
Risk Avoidance	Medium	

Key Issues and Benefits

Issues:

This project provides interim improvements for HOV and transit access between SR 520 to/from the west and the South Kirkland Park-and-Ride. This project and HOV direct access ramps at SR 520/108th Avenue NE (in the vicinity of this project) are included in the SR 520 Bridge Replacement and HOV Project EIS as options to consider with the 6-lane alternative. A preferred alternative for the SR 520 project will be identified by late 2006.

Additional funding for the SR 520 project is under consideration in the Regional Transportation Investment District package.

Until the SR 520 Bridge Replacement and HOV Project is funded and implemented, this project will provide interim speed and reliability improvements for HOV and transit users of the South Kirkland Park-and-Ride. After the SR 520 Bridge Replacement and HOV Project is completed and the HOV lanes are moved to the inside and an HOV direct access to 108th Avenue NE is built, elements of this project would no longer be needed or used for HOV/transit purposes.

This project includes ST funding for new lanes open to general purpose (GP) traffic on state and local roadways. This may require a partnership agreement with WSDOT to fund the GP portions.

Other technical issues include:

- Traffic impacts on Bellevue Way NE and Northup Way NE and vicinity
- Wetlands and stream in vicinity
- Benefit of this project for transit speed and reliability needs to be confirmed

Benefits:

- Improves speed and reliability for HOV and transit riders accessing South Kirkland P&R via the HOV/transit queue jump lane on the EB off-ramp
- Improves ST Express and King County Metro transit operations via the HOV/transit queue jump lane
- Prepares SR 520/Bellevue Way interchange for expansion of SR 520 to ultimate future width (future freeway widening is not part of this project)