

I-405 Renton to Bellevue Widening and Express Toll Lanes Project

Project Overview

The Renton to Bellevue project will add new capacity to create a two-lane express toll lane system between SR 167 in Renton and Northeast 6th Street in Bellevue. This project will connect a 40-mile system of express toll lanes that improves speeds and trip reliability for all travelers and supports the new I-405 Bus Rapid Transit system included in the Sound Transit 3 package.

Project Goals

- 1. Minimize Impacts** - Develop and implement a design-build project that reduces, minimizes, or eliminates construction and traffic related impacts on I-405 and to the adjacent communities and businesses.
- 2. Collaboration** - Provide a successful design-build project by collaborating with WSDOT, the Toll Vendor, key stakeholders, and local communities to resolve issues at the Project level.
- 3. Smooth Toll-System Rollout** - Provide an efficient, comprehensive rollout plan for the express toll lane system in coordination with WSDOT's Toll Vendor. This plan should minimize traffic impacts during rollout of the toll system.
- 4. Effective Start-Up and Close-Out, and Quality Management** - Plan and deliver a successful design-build project. This plan should:
 - Meet or exceed all contract requirements to start the project as smoothly as possible
 - Follow a plan to close out the project within the contract requirements
 - Develop and administer a project Quality Management Plan that ensures the work meets or exceeds the contract requirements and is appropriately staffed to do so.



Project limits: I-5 in Tukwila to NE 6th Street in Bellevue

Design-Build Contract Amount: \$650-700M

Key Personnel

- Project Manager
- Construction Manager
- Design Manager
- Inclusion Manager

Procurement Schedule

Request for Qualifications (RFQ)	Aug. 15, 2018
Request for Proposal (RFP)	Nov. 15, 2018
Bid opening/Apparent Best Value	August 2019
Construction Start	Fall 2019
Open to Traffic	May-July 2023 or 2024

For More Information

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Current Project Scope

Non-motorized trail

First item of work, completion by December 2020

- Realign and reconstruct the existing Lake Washington Trail (MP 7.7 – MP 10.2) west of its current location to reside within the Eastside Rail Corridor from Ripley Lane in Renton to Coal Creek Parkway in Bellevue.
- Build a new Eastside Rail Corridor regional trail bridge over southbound I-405 at Wilburton.

Express toll lanes

- Widen I-405 from north of SR 167 to just south of NE 6th Street (MP 2.5-13.7) to accommodate an additional lane both northbound and southbound. The additional lane will be paired with the existing northbound and southbound HOV lane to create two Express Toll Lanes (ETLs).

Auxiliary lanes

- Construct a southbound I-405 auxiliary lane between NE 44th Street on-ramp and NE 30th Street off-ramp.
- Extend one of the southbound I-405 auxiliary lanes that currently starts at the I-90 on-ramp to end farther south at the 112th Avenue SE off-ramp.

Bridges and structures

- Reconstruct local road overpasses at Cedar Avenue, Renton Avenue and Main Street to accommodate added I-405 lanes.
- Widen I-405 bridge structures over the Cedar River, NE Park Drive, Sunset Boulevard and SE 8th Street.
- Build a new northbound I-405 bridge structure over the Eastside Rail Corridor adjacent to the existing I-405 structure.

Major interchange work

- Replace the 112th Avenue SE Interchange bridge structure over I-405.
- NE 44th Street Interchange: Replace the northbound and southbound I-405 bridge structures over May Creek. Replace the NE 44th Street bridge structure over I-405 and reconstruct the interchange. Construct new direct access ramps in the I-405 median. Realign and reconstruct Lake Washington Boulevard between NE 44th Street and SE 76th Street, and realign the northbound on-ramp to I-405 to connect to Lake Washington Boulevard. Local intersections will be roundabout controlled.

Ramp reconfigurations

- Reconfigure the southbound I-405 to eastbound I-90 ramp from one lane to two lanes. Realign the northbound I-405 to eastbound I-90 ramp.
- Widen the existing northbound I-405 to SR 520 ramp from two lanes to three lanes.

Environmental and other enhancements

- Construct two fish passage crossings under NE 44th Street and under I-405 for UNT 08.LW.0283 (formerly referred to as Gypsy Creek). Construct a fish passage crossing under I-405 for Stream 7.7A. Construct a fish passage crossing under I-405 for Stream 7.8.
- Construct new noise walls and relocate two existing noise walls.
- Construct stormwater management and water quality facilities.
- Other improvements will include pavement markings, permanent signing, illumination, intelligent transportation systems, barriers, and tolling gantries.

Potential added scope

- Construct direct access ramps at 112th Avenue SE

Quantities and Cost

ITEMS (APPROX. % OF CONSTRUCTION COST)	UNITS	APPROX. QUANTITY
EARTHWORK (5-10%)		
Excavation	CY	500,000
Common borrow	CY	800,000
PAVEMENT (5-10%)		
PCCP	CY	5,000
HMA	Tons	350,000
HMA overlay	Tons	50,000
Sidewalks	SF	85,000
DRAINAGE (5-10%)		
Conveyance	Miles	10
Stormwater treatment	Acres	125
SPECIALTY ITEMS (10-15%)		
Retaining walls (cut section)	SF	180,000
Retaining walls (fill section)	SF	775,000
Noise walls	SF/LF	660,000/10,250
Culverts for fish passage	EA	5
Horizontal directional drilling (HDD)	LF	~5,500
TRAFFIC ITEMS (10-15%)		
Sign structures	EA	60
Toll point structures	EA	25
STRUCTURES (10-15%)		
New bridges	EA	13
Bridge widening	SF	25,000