

Link LRT: Maintenance Base and Vehicles for Extension to Federal Way Transit Center

Project Number	S33T2
Subarea	South King
Primary Mode Impacted	Link
Facility Type	Link Service
Version Number	2.0
Date Last Modified	5/19/2006

Project Locator Map



Short Project Description

Provide a maintenance and operations base to support extension of the Link light rail system; from S. 200th to Federal Way Transit Center (S 317th Street).

Provide 26 additional LRT vehicles for the extension.

Project Purpose: To support the extension of Link LRT service further south.

Cost and Schedule

Cost (In Millions of 2005\$); conceptual estimate only

	Low	High
Agency Admin	\$11.0	\$12.6
Environmental Clearance and PE	\$2.9	\$3.4
Final Design, Specs, and	\$7.3	\$8.4
ROW Acquisition	\$11.2	\$12.9
Construction	\$63.3	\$72.8
Vehicles	\$98.3	\$113.0
Contingency	\$5.8	\$6.7
Total	\$199.8	\$229.8

Schedule

Proposed Schedule Not Yet Developed
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Design Basis

Conceptual

Environmental Documentation Required

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

Relationships to Other Projects

Relationship	Project
Dependent on	Project S28 - Link LRT Extension from S 200th St to Kent-Des Moines Road.
Dependent on	Project S29T2 - Link LRT Extension from Kent-Des Moines Road to S 317th Street.

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Project Partners

Agency

KC Metro	
WSDOT	
City of Kent	
City of Des Moines	
Highline Community College	
City of Federal Way	

Long Description:

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

At this stage of project development, a representative site was used to develop a cost estimate. The final site location will be determined through project level design and environmental review. The base cost estimate includes design allowance contingency, construction change order contingency, and unallocated contingency.

Project Description:

The project will provide an LRT maintenance and operations facility and 26 additional LRT vehicles to support Projects S28 - Link LRT: S 200th to Kent Des Moines and S29T2 - Link LRT: Kent-Des Moines Road to Federal Way Transit Center.

Project Elements Included:

The maintenance and operations facility will include:

- Land purchase for an 18-acre site (to accommodate a potential 26-vehicle LRT fleet that supports a complete S.200th to Federal Way Transit Center extension)
- Service and storage track and switches
- Lead track from the main alignment (aerial)
- Train washer
- Vehicle barn
- Staff office facilities
- Parking and storage area
- Environmental mitigation

Construction costs are allocated based on estimated number of vehicles that will be using the facility under the Sea-Tac Airport to Federal Way Transit Center Link extension.

Additional Vehicles

- 26 light rail vehicles (includes spares)

Right-of-Way

--Right-of-way (ROW) costs for the maintenance and operations facility are based on applying a factor to construction costs. This factor (15%) has been applied to the construction costs of a facility that would eventually accommodate 26 vehicles for a complete Link extension to Federal Way Transit Center. A 50% contingency factor has also been added to the ROW cost.

Utilities

- Relocation of the existing high voltage power line (no undergrounding)

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Mitigation

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

Exclusions

- Major roadway reconstruction to accommodate support columns for the aerial track
- Non-structural architectural and aesthetic elements in excess of the ST art program
- Undergrounding of overhead utilities
- Community development funding
- Non-structural architectural and aesthetic elements in excess of the ST art program
- Central command and control for operations

Permits Required

- Building, electrical, mechanical, utility, construction-related

Agreements Required

- Agreements with WSDOT and affected jurisdictions

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.

Evaluation Measures

Measure	Measurement/ Rating	Notes
Average Weekday Ridership	N/A	
Capital Cost	\$199.8 - \$229.8	in Millions of 2005\$
Annual Operating Cost	Included elsewhere	
Travel Time & Reliability	N/A	
Connectivity & Integration	N/A	
Land Use & Development	N/A	
Customer Experience	N/A	
Risk Avoidance	Low	

Key Issues and Benefits

Issues:

- Locating an 18-acre site in South King County near the light rail alignment.

Benefits:

- Facility is necessary to support extension light rail service further south; consistent with Sound Transit's Long-Range Plan.