

Link LRT: Maintenance Facility and Vehicles for Northgate-Lynnwood Light Rail Extension

Project Number	N35T2
Subarea	Snohomish
Primary Mode Impacted	Link
Facility Type	Link Service
Version Number	1.0
Date Last Modified	5/22/2006

Project Locator Map



Short Project Description

Construct an LRT maintenance facility to service the extension from Northgate to Lynnwood TC and provide 31 LRT vehicles for the extension.

Project Purpose: To extend Link LRT service further north.

Cost and Schedule

Cost (in Millions of 2005\$)

Schedule

	Low	High
Agency Admin	\$12.6	\$14.5
Environmental Clearance and PE	\$3.3	\$3.8
Final Design, Specs, Permitting	\$8.2	\$9.4
ROW Acquisition	\$10.1	\$11.6
Construction	\$70.8	\$81.4
Vehicles	\$117.2	\$134.8
Contingency	\$6.5	\$7.5
Total	\$228.7	\$263.0

Proposed Schedule Not Yet Developed

Annual O&M	
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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
Impacted by	N28 - Light Rail Extensions from Northgate to Lynnwood
Impacted by	Extent and timing of light rail extensions in the East and South corridors

Project Partners

WSDOT
City of Lynnwood
FHWA
FTA

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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 the revenue operations.

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

Description:

This project would construct a maintenance and operations facility to service the extension of light rail service from Northgate to Lynnwood Transit Center and provide 31 LRT vehicles for the North LRT extension.

Project Elements Included:

- 10-25 acre site, located near Lynnwood TC
- Service and storage track and switches
- Train washer
- Vehicle barn
- Staff office facilities
- LRT Parking and storage area
- 31 light rail vehicles (includes spares)
- Employee parking
- Operations, dispatching, and employee facilities

Utilities:

- relocation of overhead utilities where utilities must be moved to accommodate the project
- electrical, water, sewer, communications

Right-of-Way and Property Acquisition:

• Property interests required for the prototypical alignment include fee acquisitions, partial takes, easements and interagency agreements. Right-of-way requirements include construction staging and contractor laydown areas. No specific provisions are made for contractor parking. Cost estimates include associated relocation, administration and legal costs, and contingency.

Mitigation:

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

Exclusions:

- Non-structural architectural and aesthetic elements in excess of the ST art program
- Contractor parking

Permits Required:

- building, electrical, mechanical, utility, construction-related

Agreements Required:

- WSDOT, City of Lynnwood, FHWA, FTA

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	\$228.7 - \$263.0	in Millions of 2005\$
Annual Operating Cost	\$0.0	Included in N28
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

- Large industrial facility likely to be difficult to site
- Necessary maintenance capacity may be suitable elsewhere along the regional light rail system

Benefits

- Required to support the additional vehicles necessary to extend light rail service