

# Express Bus: ST Express Maintenance and Operations Facilities and Fleet Expansion

**Project Number**

SYS-BUS

**Subareas**

Snohomish, East King, South King, Pierce

**Primary Mode Impacted**

ST Express

**Facility Type**

ST Express Service

**Version Number**

2.0

**Date Last Modified**

12/14/2006

**Project Locator Map**



## Short Project Description

Construct new maintenance and operations facility capacity for existing and future ST Express services and expand the bus fleet.

**Project Purpose:** Provide sufficient capacity to operate, store, and maintain the existing and future ST Express buses projected for the year 2020, and provide additional bus fleet to support service expansion during ST2.

## Cost and Schedule

**Cost (in Millions of 2006\$)**

**Schedule**

### East King County Base

**Low**

**High**

Agency Admin	\$5.1	\$5.9
Environmental Clearance and PE	\$5.8	\$6.7
Final Design, Specs, Permitting	\$5.8	\$6.7
ROW Acquisition	\$17.4	\$20.0
Construction	\$48.9	\$56.2
Contingency	\$7.8	\$9.0
<b>Total</b>	<b>\$90.9</b>	<b>\$104.5</b>

**Proposed Schedule Not Yet Completed**

### Pierce County Base

**Low**

**High**

Agency Admin	\$2.4	\$2.7
Environmental Clearance and PE	\$2.3	\$2.6
Final Design, Specs, Permitting	\$2.3	\$2.6
ROW Acquisition	\$12.0	\$13.7
Construction	\$19.3	\$22.2
Contingency	\$3.6	\$4.1
<b>Total</b>	<b>\$41.8</b>	<b>\$48.1</b>

### Total

**Low**

**High**

Agency Admin	\$7.5	\$8.6
Environmental Clearance and PE	\$8.1	\$9.3
Final Design, Specs, Permitting	\$8.1	\$9.3
ROW Acquisition	\$29.4	\$33.8
Construction	\$68.2	\$78.4
Contingency	\$11.4	\$13.1
<b>Maintenance Bases</b>	<b>\$132.7</b>	<b>\$152.6</b>
<b>Fleet</b>	<b>\$21.0</b>	<b>\$21.0</b>
<b>Total Bases and Fleet</b>	<b>\$153.7</b>	<b>\$173.6</b>

**Design Basis**

Conceptual

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## Environmental Documentation Required

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

## Relationships to Other Projects

<i>Relationship</i>	<i>Project</i>
Impacted by	Potential Link light rail extensions that would reduce the ST Express fleet size and resulting maintenance and operations needs along the affected service corridors.
Impacts	Potential operating costs of ST Express routes

## Project Partners

### Agency

Pierce County jurisdictions	
East King County jurisdictions	
Community Transit	
Pierce Transit	
King County Metro	

## 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.*

### Description:

ST Express buses are currently operated, stored, and maintained by the agency's transit partners - Community Transit, King County Metro, and Pierce Transit. This project will involve constructing two maintenance and operations bases to accommodate the existing and future ST Express bus fleet projected for the year 2020, including growth anticipated under ST2. One base to be located in East King County would accommodate up to 200 buses serving the Snohomish County, East King County, and South King County subareas. A second base to be located in Pierce County would accommodate up to 100 buses serving the Pierce County subarea.

All heavy maintenance (i.e., paint/body work and component rebuild) for the entire ST Express fleet would occur at the East King County base. All other maintenance functions would be provided at each facility. The base sites would be sized to allow for the ability to expand over time to meet demand. The estimated costs and budget presented here might also be used to expand Transit Partner bases (in lieu of building separate ST facilities), tripper storage, or both. This project also includes purchase of 35-40 additional buses to support ST Express service expansion during ST2.

### **The following heavy maintenance functions will be located at East King County base only, but they will support the entire ST Express Fleet:**

- Paint/body work shop
- Component rebuild (transmission rebuild, etc.)

### **Project Elements Included at each Base:**

- Offices and support areas for bus maintenance activities
- Shop for bus maintenance
- Parts storage
- Fuel, wash, service areas
- Bus operations, dispatching and employee facilities

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### **Project Elements Included at each Base (cont.):**

- Miscellaneous other building areas
- Bus parking
- Miscellaneous other agency vehicle parking
- Employee parking
- Visitor parking
- Space and equipment for secured entry to bus parking and maintenance areas
- Miscellaneous other site areas
- Illumination
- 1 percent for art per ST policy
- Allowances for:
  - Site circulation
  - Site landscaping / setbacks
  - Stormwater detention

### **Utilities at Each Base:**

- Electrical, telephone, sewer, water. Extensions of public streets and utilities to the sites as needed.

### **Right-of-Way and Property Acquisition at Each Base:**

- Allowance for acquisition and relocation of existing uses as necessary. Locating a base in Bellevue in the vicinity of a potential Link maintenance facility could result in significant real estate costs that are beyond the standard allowance.

### **Mitigation at Each Base:**

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

### **Exclusions at Each Base:**

- Non-structural architectural and aesthetic elements in excess of the ST art program
- Undergrounding of overhead utilities
- Community development funding
- Vehicle purchases
- Equipment other than that specifically identified on this project description or in the Space Program
- Space and equipment for alternative fuels
- Space and equipment for security monitoring
- Space and equipment (e.g., furnishings) for agency overhead function such as human resources, etc.

### **Permits Required at Each Base:**

- Building, electrical, mechanical, utility, construction-related, and land use permits by local jurisdictions

### **Agreements Required:**

- Jurisdictions in Pierce County
- Jurisdictions in East King County

*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	\$153.7 - \$173.6	in Millions of 2006\$
Annual Operating Cost (for operations of both bases)	\$1.0	in Millions of 2006\$
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:

- There is limited availability of land parcels in East King County to accommodate a new maintenance and operations base.
- No ROW or construction funds are provided in this project description for "tripper" fleet storage in the downtown Seattle area, but the ST Express base capacity expansion funds could potentially be used for this purpose.

### Benefits:

- The project would provide capacity for Sound Transit to accommodate both the existing ST Express fleet as well as the future fleet needs under ST2.
- Sound Transit-owned bus base facilities would provide additional operations and contracting flexibility.