

# Progress Report Sounder Program

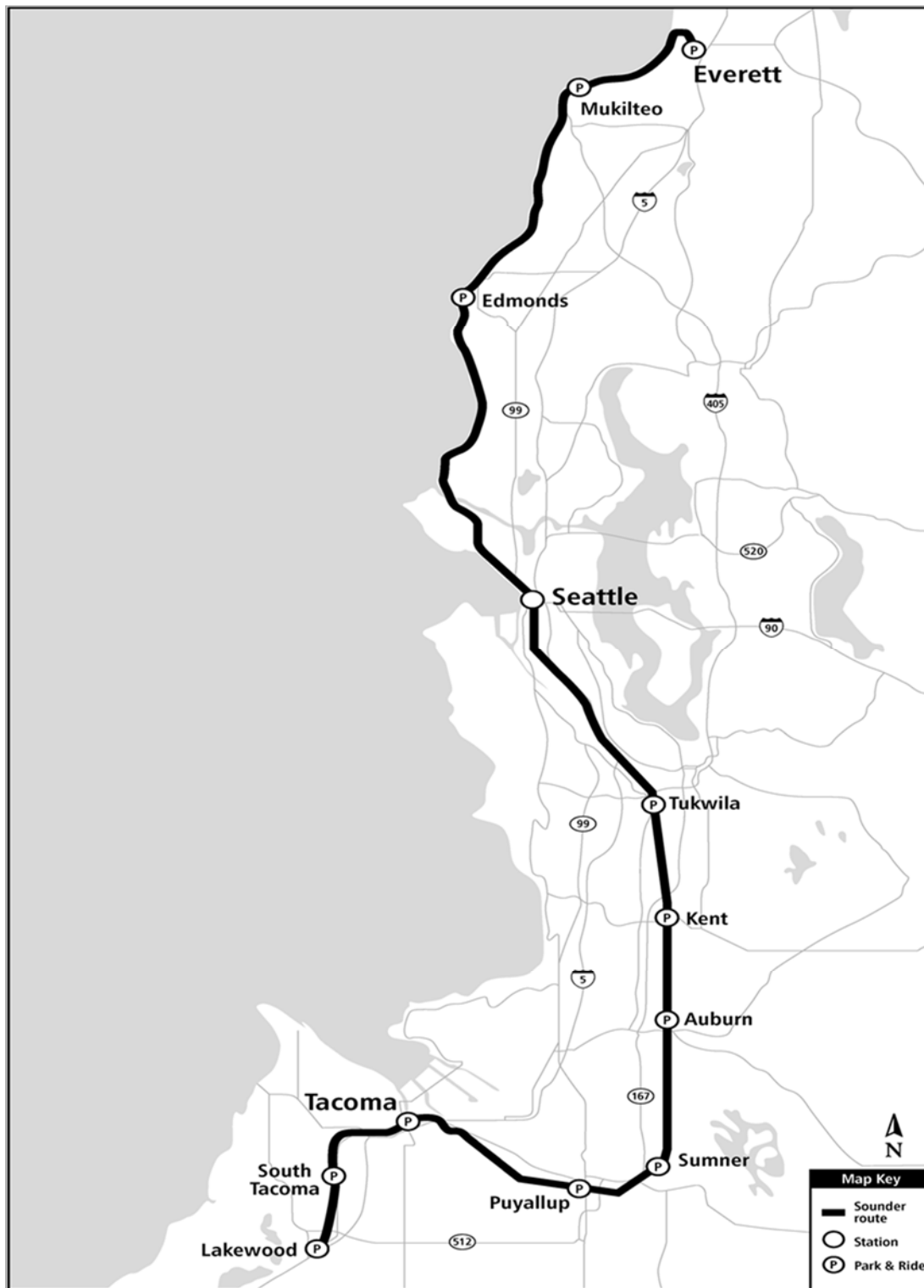
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The Tacoma Trestle construction contractor's crane was used to move formwork and rebar for the south platform

June | 2017





*Sounder provides commuter rail service between Everett and Lakewood*

## Projects

Below is a summary description for each active project under the Sounder Commuter Rail Capital Program. Project status information can be found on the following projects pages.

**Auburn Station Access Improvements:** Project includes alternatives identification, screening, environmental documentation, design and construction of station access improvements at or around Auburn Station. The purpose of the project is to improve access to the existing Sounder Auburn Station for Sounder riders, bicyclists, bus riders, and drivers.

**Kent Station Access Improvements:** Project includes alternatives identification, screening, environmental documentation, design and construction of station access improvements at or around Kent Station. The purpose of the project is to improve access to the existing Sounder Kent Station for Sounder riders, bicyclists, bus riders, and drivers.

**Mukilteo Station, South Platform:** Full build-out of this station included construction of a second platform, overhead pedestrian bridge, elevators, stair tower, and passenger shelters. Sounder service at the south platform began on April 11, 2016. The project page for this project has been removed. Only follow-on work remains. Cost status can be found on the Program Cost Summary table.

**Point Defiance Bypass:** Sound Transit is administering the construction of the Point Defiance Bypass Track & Signal contract, which will construct a new second track adjacent to Sound Transit's existing main line between South Tacoma (66th Street Bridge) and Lakewood (Bridgeport Way) and install new rails, ties, and ballast on Sound Transit's existing track between Lakewood and Nisqually with associated signal and PTC safety systems. The work is being funded by a FRA-administered federal grant to WSDOT for improvements along the Pacific Northwest High Speed Intercity Passenger Rail corridor.

**Positive Train Control:** Federal regulations require all passenger train systems be equipped with PTC systems before January 2019. This necessitated upgrades to Sounder wayside signals, communications, and information management systems along with additional on-board equipment. BNSF is installing wayside elements within the Everett-to-Tacoma corridor. This project includes wayside elements along the Tacoma-to-Lakewood corridor and modifications of locomotives and cab cars for installation of on-board equipment. Sound Transit will implement PTC operations as early as FRA approvals of its Revenue Service Demonstration and PTC Safety Plans will allow.

**Puyallup Station Access Improvements:** Project includes environmental documentation, design, and construction of station access improvements at or around Sounder Puyallup Station. The purpose of this project is to accommodate and encourage future demand for ridership in an economically efficient and environmentally sustainable manner.

**Sounder Maintenance Base:** Sound Transit will construct a new railroad maintenance facility to service Sounder commuter trains at its expanded Century Yard facility in the City of Lakewood. The building will contain maintenance bays, materials storage areas, offices, and facilities for employees.

**Sounder South Expanded Service:** Sound Transit purchased four additional round trip easements from BNSF to expand service between Seattle and Tacoma/Lakewood. Sound Transit is responsible for completing environmental documentation, permitting, and mitigation associated with BNSF construction activities necessary to support those additional round trips.

**Sounder Yard Expansion:** Increased Sounder service in the Everett-to-Lakewood corridor will require additional train sets and a location to store the added trains overnight. The Century Yard is being expanded by an additional storage track to accommodate the new train sets and permanent crew reporting facilities will be incorporated into the design, eliminating the need to lease space for train and engine crews.

## Projects continued...

**Sumner Station Access Improvements:** Project includes environmental documentation, design, and construction of station access improvements at or around Sounder Sumner Station. The purpose of this project is to accommodate and encourage future demands for ridership in an economically efficient and environmentally sustainable manner.

**Tukwila Station:** Construction of a permanent station and platforms to replace the temporary wooden structure has been completed. This project included the construction of an expanded parking lot, bus loop with passenger shelters, bicycle storage area, and new concrete platforms with improved passenger shelters, all sited to accommodate BNSF's new third mainline, now under construction. The project page for this project has been removed. Only follow-on work remains. Cost status can be found on the Program Cost Summary table.

**Tacoma Trestle Track & Signal:** Replacement of existing wooden trestle that has reached the end of its functional service life with a double track concrete structure. This project will improve overall safety, capacity, and speed in this section of the Sounder Tacoma-to-Lakewood corridor.

## Program Cost Summary

The Program Cost Summary information by project is summarized below. The Adopted Budget reflects the budget for each project through the approved project phase, meaning that for projects approved for Final Design activities only, the project budget will be amended at some point to add budget for construction activities. Further information can be found in the following project pages.

SOUNDER	Adopted Budget	Commitment to Date	Incurred to Date	Forecast to Complete	Estimated Final Cost (EFC)	Adopted Budget vs. EFC
SOUNDER MAINTENANCE BASE	\$9.0	\$3.0	\$2.5	\$6.0	\$9.0	\$0
POSITIVE TRAIN CONTROL	\$53.1	\$43.8	\$38.1	\$0.9	\$44.6	\$8.4
PUYALLUP STATION IMPROVEMENTS	\$11.0	\$3.6	\$2.7	\$7.4	\$11.0	\$0
SUMNER STATION IMPROVEMENTS	\$17.0	\$13.7	\$5.3	\$3.3	\$17.0	\$0
TACOMA TRESTLE TRACK & SIGNAL	\$161.1	\$114.5	\$90.2	\$46.6	\$161.1	\$0
SOUNDER YARD EXPANSION	\$20.6	\$16.7	\$15.9	\$3.9	\$20.6	\$0
PT DEFIANCE BYPASS	\$83.7	\$76.5	\$72.9	\$7.1	\$83.6	\$0
KENT STATION ACCESS IMPRVMTS	\$0.8	\$0.6	\$0.5	\$0.3	\$0.9	\$0
AUBURN STATION ACCESS IMPRVMT	\$0.8	\$0.6	\$0.5	\$0.3	\$0.9	\$0
MUKILTEO STATION-S PLATFORM	\$18.3	\$14.8	\$14.8	\$3.5	\$18.3	\$0
TUKWILA STATION	\$46.0	\$36.4	\$37.1	\$2.2	\$38.7	\$7.3
SOUNDER SOUTH EXPANDED SERVICE	\$202.0	\$195.0	\$194.6	\$6.9	\$202.0	\$0
<b>Total SOUNDER</b>	<b>\$623.3</b>	<b>\$519.2</b>	<b>\$475.0</b>	<b>\$88.3</b>	<b>\$607.6</b>	<b>\$15.7</b>

## Sounder Program Schedule

Schedules for active projects are summarized below.

Activity Name	Start	Finish	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
<b>Sounder Commuter Rail - South</b>	01-Apr-13 A	08-Jun-27	■	■	■	■	■	■	■	■	■	■	■
<b>Operations/Facilities - South</b>	01-Apr-13 A	08-Jun-27	■	■	■	■	■	■	■	■	■	■	■
S300004 - Sounder Maintenance Base - DB	01-Apr-13 A	08-Jun-27	■	■	■	■	■	■	■	■	■	■	■
S300011 - Positive Train Control	16-Jul-13 A	11-Aug-18		■	■	■	■	■	■	■	■	■	■
S300021 - Tacoma Trestle - DBB	21-Mar-16 A	16-Dec-17			■	■	■	■	■	■	■	■	■
S300026 - Sounder Yard Expansion - DB	23-Feb-16 A	20-Jul-17			■	■	■	■	■	■	■	■	■
S34150 - Point Defiance Bypass - DBB	22-Sep-15 A	31-Aug-17			■	■	■	■	■	■	■	■	■
<b>Station Access - South</b>	01-May-15 A	22-Feb-24			■	■	■	■	■	■	■	■	■
S300017 - Puyallup Station Access Improvements - DB	01-May-15 A	03-Mar-22			■	■	■	■	■	■	■	■	■
S300018 - Sumner Station Access Improvements - DB	01-May-15 A	01-Feb-22			■	■	■	■	■	■	■	■	■
S300036 - Kent Station Access Improvements - DB	24-Feb-16 A	21-Feb-24			■	■	■	■	■	■	■	■	■
S300041 - Auburn Station Access Improvement - DB	24-Feb-16 A	22-Feb-24			■	■	■	■	■	■	■	■	■

## Construction Safety

Agency-led active construction contracts under the Sounder program are as follows:

- Point Defiance Bypass Project
- Tacoma Trestle Track & Signal Project
- Sounder Yard Expansion

2 recordable incidents this reporting period.

## Quality Assurance

Quality Assurance continues to support the Sounder program through review of design and construction documents and periodic audits of projects in design, construction, and operations.

Description	2 <sup>nd</sup> Quarter 2017	Notes
Audits/Surveillances Performed	1 Audit 0 Surveillances	A-RE-SND-S34150-17-01
Audits/Surveillances Reports Issued	0 Audit 0 Surveillances	None
Reports in Progress	1 Reports	A-RE-SND-S34150-17-01

## Sound Transit Board Actions

Board motions and resolutions directly related to Sounder Program approved this period are summarized in the table.

Motion Number	Description	Date
	None to report this period.	

## **Third-Party Agreements**

- Negotiations have concluded for a Service Outcomes Agreement (SOA) and Stakeholder Agreement for investment of High-Speed Passenger Rail grant money into the Sound Transit rail corridor. The SOA captures Sound Transit's commitment to continued maintenance and operation of the corridor, and the Stakeholder Agreement provides funding to be applied to the completed construction on the D Street-to-M Street project and the on-going Point Defiance Bypass and Tacoma Trestle projects.

### **City of Tacoma**

#### **FTA / WA Dept. of Archeology and Historical Preservation**

- Environmental MOA - Federal Transit Administration (FTA), the responsible Federal agency is providing federal financial assistance for the Tacoma Trestle Track & Signal project. The grant administrator has determined that the project is an undertaking as defined in Title 36 Code of Federal Regulation (CFR) §800.16(y), and thus is subject to review under the Section 106 of the National Historic Preservation Act (NHPA), 16 U.S.C §470 (Section 106) and its implementing regulations, 36 CFR Part 800.
- FTA issued the Section 106 MOA amendment for Sound Transit to complete additional archaeological borings, cultural historic report and make a capped contribution for Puyallup Tribe to create a cultural or art piece.

### **WSDOT**

- Construction and Maintenance - Funding of projects on Sound Transit-owned property, including a \$21M contribution to the D-to-M Street Track & Signal project, and 100% funding of the Pt. Defiance Bypass project. For Tacoma Trestle, WSDOT will provide funding for Sound Transit to construct and maintain the platform extension serving Amtrak long-distance trains and other railroad and passenger improvements at Tacoma Dome Station/Freighthouse Square.
- CE and PE Cost Reimbursement - WSDOT wishes to extend the passenger platform at Freighthouse Square onto the bridge in order to accommodate the length of Amtrak trains that will use the station; Sound Transit will design and construct the platform extension.
- Final Design Cost Reimbursement - WSDOT is to reimburse Sound Transit for the associated design consultant services and other expenditures to complete final design of the extended platform, necessary to accommodate the longer Amtrak trains at their Freighthouse Square Station.
- Amendment No. 1 to the Reciprocal Overhead Waiver Agreement between WSDOT and Sound Transit has been executed. In this agreement, both parties agree to waive indirect costs and be reimbursed for the performance of work on specific projects of the other agency.
- A task order umbrella agreement between WSDOT and Sound Transit for Sound Transit's Services has been negotiated and ST Board approval is anticipated for April 2017. This agreement allows for reimbursement of ST staff time reviewing design documents associated with WSDOT's I5-Mount Road to Thorne Lane Connector project.

### **Sprint**

- Cost Reimbursement - Sound Transit and Sprint have reached an agreement for Sprint to temporarily relocate their facilities, then permanently relocate their facilities back onto ST's new Tacoma Trestle double-track bridge. The agreement covers expenditures for design and construction activities related to the temporary and permanent relocation.

### **City of Puyallup**

- Term Sheet - Sound Transit and the City have reached an agreement on a Project Team Sheet. This document outlines the early understandings of both Sound Transit and the City. The term sheet will serve as the foundation for the more detailed project entitlements, in the form of a Development Agreement.

### **City of Sumner**

- Term Sheet - Sound Transit and the City have reached an agreement on a Project Term Sheet. This document outlines the early understandings of both Sound Transit and the City. The term sheet will serve as the foundation for the more detailed project entitlements, in the form of a Conditional Use Permit.

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# Sounder Commuter Rail Auburn Station Improvements



## Scope

This project will consider and build upon the results of Sounder Station Access and Demand Study completed in 2012. The alternatives analysis phase of the project will evaluate parking, transit, pedestrian, and bicycle access improvements that could be made to improve rider access to the Auburn Sounder Station.

At the end of the alternative analysis phase, the ST Board will identify a preferred alternative to advance to conceptual and preliminary engineering.



Improving access to Auburn Station

## Schedule

	Start	Finish
Prelim. Engineering	2016	2019
Final Design	2019	2021
Construction	2021	2023

## Scope/Schedule/Budget Variance

None to report this period.

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 207	\$ 123	\$ 127
Preliminary Engineering	\$ 574	\$ 464	\$ 339
Final Design	\$ -	\$ -	\$ -
Third Party Agreements	\$ -	\$ -	\$ -
ROW Acquisition and Permits	\$ 50	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
Construction Services	\$ -	\$ -	\$ -
<b>Project Total</b>	<b>\$ 831</b>	<b>\$ 587</b>	<b>\$ 466</b>

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
CDM Smith Inc.	\$495	PE/CE

## Key Project Activities

### Current Period

- Identified potential parking, pedestrian, bicycle, and transit improvements for evaluation.
- Evaluated and compared access improvements alternatives; obtained preliminary feedback from stakeholders to narrow and refine alternatives.

### Next Period

- Evaluate and compare top access improvement alternatives.
- Gather feedback from stakeholders to inform Sound Transit Board for identification of a preferred alternative.

## Closely Monitored Issues

- Sound Transit 2 project description and associated cost assumes parking garage can be developed on ST owned property with no new ROW acquisition. Cost estimate may be low depending on site identified through alternatives analysis.
- Private developer has expressed interest in joint development of potential parking garage site.

## Scope

This project will consider and build upon the results of Sounder Station Access and Demand Study completed in 2012. The alternatives analysis phase of the project will evaluate parking, transit, pedestrian, and bicycle access improvements that could be made to improve rider access to the Kent Sounder Station.

At the end of the alternatives analysis phase, the ST Board will identify a preferred alternative to advance to conceptual and preliminary engineering.



*Improving access to Kent Station*

## Schedule

	Start	Finish
Prelim. Engineering	Oct 2016	2018
Final Design	2019	2021
Construction	2021	2023

## Scope/Schedule/Budget Variance

None to report this period.

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 207	\$ 142	\$ 146
Preliminary Engineering	\$ 574	\$ 464	\$ 339
Final Design	\$ -	\$ -	\$ -
Third Party Agreements	\$ -	\$ -	\$ -
ROW Acquisition and Permits	\$ 50	\$ -	\$ -
Construction	\$ -	\$ -	\$ -
Construction Services	\$ -	\$ -	\$ -
<b>Project Total</b>	<b>\$ 831</b>	<b>\$ 606</b>	<b>\$ 485</b>

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
CDM Smith Inc.	\$495	PE/CE

## Key Project Activities

### Current Period

- Identified potential parking, pedestrian, bicycle, and transit improvements for evaluation.
- Evaluated and compared access improvement alternatives; obtained preliminary feedback from stakeholders to narrow and refine alternatives.

### Next Period

- Evaluate and compare top access improvement alternatives.
- Gather feedback from stakeholders to inform Sound Transit Board identification of preferred alternative.

## Closely Monitored Issues

- Sound Transit 2 project description and associated cost assumes parking garage can be developed on combination of ST owned property and limited new ROW to be acquired. Cost estimate may be low depending on site identified through alternatives analysis.
- Private developer had expressed early interest in joint development of potential parking garage site, but has since withdrawn support.

# Sounder Commuter Rail Point Defiance Bypass



## Scope

Sound Transit is administering the construction of WSDOT's Point Defiance Bypass Project, which will construct a new second track adjacent to Sound Transit's existing main line between South Tacoma (South 66th St. Bridge) and Lakewood (Bridgeport Way) and install new rails, ties, ballast, and signaling and PTC systems on Sound Transit's existing track between Lakewood and Nisqually.



Point Defiance Bypass

## Schedule

	Start	Finish
Prelim. Engineering	N/A	N/A
Final Design	Jul 2013	May 2014
Construction	Jun 2014	Aug 2017

## Scope/Schedule/Budget Variance

None to report this period.

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
HNTB	\$8,867	CMC
Stacy and Witbeck, Inc.	\$57,386	CON
Voestalpine Nortrak, Inc.	\$1,306	Track Procurement

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 3,201	\$ 2,465	\$ 2,477
Preliminary Engineering	\$ -	\$ -	\$ -
Final Design	\$ 200	\$ 103	\$ 103
Third Party Agreements	\$ -	\$ -	\$ -
ROW Acquisition and Permits	\$ 400	\$ 56	\$ 52
Construction	\$ 69,623	\$ 65,026	\$ 63,561
Construction Services	\$ 10,246	\$ 8,874	\$ 6,667
<b>Project Total</b>	<b>\$ 83,670</b>	<b>\$ 76,524</b>	<b>\$ 72,860</b>

## Key Project Activities

### Current Period

- Completed installation of signal foundations.
- Completed bridgework.
- Completed ditches from Bridgeport Way south.
- Performed train speed, signal, and crossing testing.
- Completed fencing repair work.
- Installed permanent striping.

### Next Period

- Complete RR signals punchlist and install remaining signs for civil punch list.
- Install track filters at 41st Division Drive and extra batteries at bungalows.
- Re-bore under I-5 for traffic signals north of Bridgeport Way.
- Retest interaction between track signal and RR signal.
- Finish contract submittals requirements.
- Transition project to Operations.

## Closely Monitored Issues

- Project designed by the WSDOT is funded through an ARRA grant made available by the FRA. Work for this project must be completed in June 2017 in order to leverage all available funding.
- Third-party fiber optic relocation work is ongoing and requires coordination between contractors.

## Scope

Positive Train Control (PTC) systems are integrated command, control, communications, and information systems for controlling train movements. The systems improve railroad safety by significantly reducing the probability of collisions between trains, casualties to railway workers, and over-speed accidents.

Congress acted to extend the deadline for implementing PTC to December 2018.



*Improving safety along the Tacoma-to-Lakewood corridor*

## Schedule

	Start	Finish
Prelim. Engineering	N/A	N/A
Final Design	Jul 2013	May 2014
Operational	Jun 2014	Aug 2018

## Scope/Schedule/Budget Variance

None to report this period.

## Project Cost Summary (\$\$ in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 2,238	\$ 1,414	\$ 1,415
Preliminary Engineering	\$ -	\$ -	\$ -
Final Design	\$ 279	\$ 226	\$ 226
Third Party Agreements	\$ 4,267	\$ 3,900	\$ 2,510
ROW Acquisition and Permits	\$ -	\$ -	\$ -
Construction	\$ 40,484	\$ 35,948	\$ 33,239
Construction Services	\$ 4,062	\$ 2,287	\$ 753
Contingency	\$ 1,725	\$ -	\$ -
<b>Project Total</b>	<b>\$ 53,055</b>	<b>\$ 43,775</b>	<b>\$ 38,143</b>

## Major Contracts (\$\$ in thousands)

Vendor	Amount	Scope
Xorail, Inc.	\$35,164	Design/System install
LTK Eng. Svcs.	\$2,287	CM/Eng. Services

## Key Project Activities

### Current Period

- Positive train control active on all Sounder trains on BNSF's sub-division.
- Resumed contract support from Wabtec on system implementation on Sound Transit owned Lakewood sub-division.

### Next Period

- Wabtec remobilization for system implementation on Lakewood sub-division.
- Complete modifications to PTC testing procedures to align with BNSF support of Sounder PTC program.
- Update wayside PTC network to prepare for final tests and revenue service on Lakewood sub-division.

## Closely Monitored Issues

- FRA review and approval of documents.
- BNSF will likely not activate their PTC system on the Seattle and Lakeview sub-divisions until late Summer 2017. Therefore, Sound Transit's system integration activities to be performed by ST's contractor, Xo-rail will be on hold until that time.

# Sounder Commuter Rail Puyallup Station Improvements

## Scope

This project is currently undertaking preliminary engineering for access improvements identified for the Puyallup Station through the ST Board action in August 2014. ST Board identified improvements include a new parking garage at the Puyallup Station, additional parking facilities, station area pedestrian access improvements (including a pedestrian bridge), bicycle lane or path improvements near the station, secure bicycle storage area & traffic improvements.

Project scope for Final Design will be determined with the concurrence of community and municipal stakeholders, following completion of conceptual and preliminary engineering.



Improving access to Puyallup Station

## Schedule

	Start	Finish
Prelim. Engineering	Jun 2013	2018
D/B Procurement	2018	2019
Final Design	2019	2019
Construction	2019	2021

## Scope/Schedule/Budget Variance

None to report this period.

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 1,223	\$ 667	\$ 673
Preliminary Engineering	\$ 2,996	\$ 2,382	\$ 1,753
Final Design	\$ -	\$ -	\$ -
Third Party Agreements	\$ 105	\$ -	\$ -
ROW Acquisition and Permits	\$ 6,555	\$ 580	\$ 291
Construction	\$ -	\$ -	\$ -
Construction Services	\$ 130	\$ -	\$ -
<b>Project Total</b>	<b>\$ 11,009</b>	<b>\$ 3,629</b>	<b>\$ 2,717</b>

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
Parametrix	\$2,482	CE/PE

## Key Project Activities

### Current Period

- Continued preliminary engineering.
- Continued with negotiation offers for parcel owners for relocation and acquisition.
- Began drafting Design Build documents.

### Next Period

- Continue drafting Design Build documents.
- Continue negotiations with parcel owners for relocation and acquisition of needed ROW.

## Closely Monitored Issues

- None identified at this time.



### Scope

Final planning and analysis, environmental clearance and preliminary engineering for yard and shop operations and maintenance facilities to support expanded Sounder service.

Preliminary project development activities (final planning, revised cost estimating and preliminary siting studies) have been completed; environmental analysis is completed.



*Amtrak currently provides Sounder vehicle maintenance*

### Schedule

	Start	Finish
Prelim. Engineering	2016	TBD
Final Design	TBD	TBD
Construction	2018	2023

### Scope/Schedule/Budget Variance

None to report this period.

### Major Contracts (\$ in thousands)

Vendor	Amount	Scope
Parsons Brinckerhoff	\$2,300	PE/ED

### Project Cost Summary (\$ in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 860	\$ 602	\$ 606
Preliminary Engineering	\$ 5,116	\$ 2,149	\$ 1,746
Final Design	\$ -	\$ -	\$ -
Third Party Agreements	\$ -	\$ -	\$ -
ROW Acquisition and Permits	\$ 2,992	\$ 243	\$ 136
Construction	\$ -	\$ -	\$ -
Construction Services	\$ -	\$ -	\$ -
<b>Project Total</b>	<b>\$ 8,968</b>	<b>\$ 2,994</b>	<b>\$ 2,488</b>

### Key Project Activities

#### Current Period

- Development of a Sounder Ridership & Fleet Size Analysis and Forecast that will provide information for potential re-scoping and the design development of the Sounder Maintenance Base for existing and future maintenance needs.
- Issued notice to proceed to complete the additional environmental review for the project's expended project footprint.
- Consultant to issue the draft NEPA Re-evaluation, Endangered Species Act Screening Checklist and technical memos for Train Operations, Transportation, and Noise & Vibration.
- Continued work on Phase I and Phase II environmental evaluation on two private parcels that ST plans to acquire.

#### Next Period

- Issuance of the Phase I and Phase II environmental evaluation reports.
- Transmit to FTA the draft NEPA Re-evaluation and Endangered Species Act Screening Checklist for review and approval.

### Closely Monitored Issues

- City of Lakewood's has expressed concern regarding moderate noise and transportation impacts that the project may create after the project is built.

# Sounder Commuter Rail Sounder South Expanded Service



## Scope

Purchase of four additional commuter rail easements from BNSF for expanding Sounder service between Seattle and Lakewood. A number of track and signal improvements are needed between Seattle and Tacoma to accommodate additional Sounder services.

BNSF is currently underway with the construction improvements and intends to incrementally complete construction as additional service is added. Additional Sounder South Service was implemented in 2016 and two more round trips will be added in September 2017.



Additional morning and evening service between Seattle and Lakewood

## Schedule

	Start	Finish
Prelim. Engineering	Oct 2010	Mar 2011
Final Design	Aug 2011	Spring 2018
Construction	Spring 2018	Fall 2018

## Scope/Schedule/Budget Variance

None to report this period.

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
ESA Adolfson	\$416	PE

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 1,700	\$ 1,206	\$ 1,208
Preliminary Engineering	\$ 479	\$ 479	\$ 479
Final Design	\$ 900	\$ 617	\$ 230
Third Party Agreements	\$ 200	\$ 71	\$ 9
ROW Acquisition and Permits	\$ 186,485	\$ 185,211	\$ 185,192
Construction	\$ 12,054	\$ 7,435	\$ 7,433
Construction Services	\$ 150	\$ -	\$ -
<b>Project Total</b>	<b>\$ 201,968</b>	<b>\$ 195,019</b>	<b>\$ 194,551</b>

## Key Project Activities

### Current Period

- Sound Transit and King County reached concurrence on the preferred design alternative for the fish passage culvert project to be constructed on King County's right-of-way.
- Issued notice to proceed to begin preliminary engineering design on the culvert replacement project.
- Started drafting the construction and maintenance agreement for the culvert replacement project.

### Next Period

- Design consultant to transmit the 30% preliminary engineering submittal for Sound Transit and King County's review.
- Sound Transit and King County to finalize the terms of the construction and maintenance agreement for the culvert replacement project.

## Closely Monitored Issues

- Implementation of the fish passage culvert mitigation project will need to be completed by October 2018.

## Scope

Project includes design and construction of a third storage track and civil improvements to accommodate seven, eight-car Sounder train sets at the Lakewood layover facility and Century Yard.

The additional capacity is necessary when additional Sounder South trains, approved in ST2, begin service between Tacoma and Seattle in 2016/17 in advance of completion of the Sounder Maintenance Base (formerly Yard & Shops) project.



Sounder Yard Expansion will increase storage capacity for Sounder 7th train set

## Schedule

	Start	Finish
Prelim. Engineering	Jul 2013	Jun 2014
Final Design	Jun 2014	Sep 2015
Construction	Feb 2016	Jun 2017

## Scope/Schedule/Budget Variance

None to report this period.

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
Parsons Brinkerhoff	\$1,694	PE/DB
HNTB	\$1,182	CMC
Shimmick Construction	\$11,182	CON

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 1,200	\$ 1,078	\$ 1,085
Preliminary Engineering	\$ 2,150	\$ 1,779	\$ 1,208
Final Design	\$ -	\$ -	\$ -
Third Party Agreements	\$ -	\$ -	\$ -
ROW Acquisition and Permits	\$ 400	\$ 245	\$ 185
Construction	\$ 15,400	\$ 12,393	\$ 12,284
Construction Services	\$ 1,400	\$ 1,182	\$ 1,093
<b>Project Total</b>	<b>\$ 20,550</b>	<b>\$ 16,677</b>	<b>\$ 15,855</b>

## Key Project Activities

### Current Period

- Completion of commissioning work for the T&E Build, Storage Building, and Guard Shacks.
- Completion and move into the T&E Building.
- Achieved project substantial completion.
- Continued addressing punchlist items.

### Next Period

- Continue addressing punchlist items.
- Achieve project completion and acceptance.
- Begin project closeout.

## Closely Monitored Issues

- None identified at this time.



# Sounder Commuter Rail Sumner Station Improvements

## Scope

This project is currently undertaking preliminary engineering for access improvements identified for Sumner Station through ST Board action in August 2014. Board identified improvements include a new parking garage at Sumner Station, additional parking facilities, station area pedestrian access improvements, bicycle lane or path improvements near the station, secure bicycle storage, and area traffic improvements.

Project scope for Final Design will be determined with the concurrence of community and municipal stakeholders, following completion of conceptual and preliminary engineering.



Improving access to Sumner Station

## Schedule

	Start	Finish
Prelim. Engineering	Apr 2013	2017
D/B Procurement	2017	2018
Final Design	2018	2019
Construction	2019	2021

## Scope/Schedule/Budget Variance

None to report this period.

## Project Cost Summary (\$s in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 1,433	\$ 684	\$ 690
Preliminary Engineering	\$ 2,996	\$ 2,387	\$ 1,790
Final Design	\$ -	\$ -	\$ -
Third Party Agreements	\$ 7,658	\$ 7,550	\$ -
ROW Acquisition and Permits	\$ 4,414	\$ 3,007	\$ 2,742
Construction	\$ 113	\$ 97	\$ 97
Construction Services	\$ 428	\$ -	\$ -
<b>Project Total</b>	<b>\$ 17,042</b>	<b>\$ 13,725</b>	<b>\$ 5,319</b>

## Major Contracts (\$s in thousands)

Vendor	Amount	Scope
Parametrix	\$2,486	CE/PE

## Key Project Activities

### Current Period

- Continued preliminary engineering.
- Continued negotiation offers with parcel owners for relocation and acquisition of needed ROW.
- Begin drafting Design Build documents.

### Next Period

- Continue drafting Design Build documents.
- Continue negotiation offers with parcel owners for relocation and acquisition of needed ROW.

## Closely Monitored Issues

- None identified at this time.

## Scope

Sound Transit is replacing the wooden, single-track railroad trestle east of Freighthouse Square with a new concrete, double-track bridge. The new bridge will support increased passenger service and rail capacity along the corridor and improve passenger service reliability.

Other improvements include building an extended passenger platform to accommodate Amtrak long-distance train, making minor street repair, relocating utilities, replacing retaining walls and upgrading railroad signals.



*Project will replace existing Tacoma Trestle*

## Schedule

	Start	Finish
Prelim. Engineering	Aug 2013	Oct 2014
Final Design	Nov 2014	Nov 2015
Construction	Mar 2016	May 2018

## Scope/Schedule/Budget Variance

None reported during this period.

## Major Contracts (\$\$ in thousands)

Vendor	Amount	Scope
David Evans & Associates	\$15,713	PE/ED/FD
HNTB	\$4,926	CMC
Flatiron west, Inc.	\$78,479	CON
Voestalpine Nortrak, Inc.	\$1,107	Track Procurement

## Project Cost Summary (\$\$ in thousands)

Phase	Adopted Budget	Commitment to Date	Incurred to Date
Administration	\$ 8,094	\$ 3,613	\$ 3,643
Preliminary Engineering	\$ 4,062	\$ 4,062	\$ 4,062
Final Design	\$ 15,198	\$ 12,343	\$ 10,215
Third Party Agreements	\$ 1,781	\$ 432	\$ 206
ROW Acquisition and Permits	\$ 10,061	\$ 6,816	\$ 6,603
Construction	\$ 114,288	\$ 82,270	\$ 62,539
Construction Services	\$ 7,581	\$ 4,926	\$ 2,979
<b>Project Total</b>	<b>\$ 161,065</b>	<b>\$ 114,462</b>	<b>\$ 90,247</b>

## Key Project Activities

### Current Period

- Completed the Phase II pile driving and construction for the new north bridge.
- Delivered owner-furnished #15 track crossover.
- Completed the East "C" and East "D" Street #11 track crossover and signal cutover.

### Next Period

- Schedule coordination meeting between Sound Transit, FTA, and Puyallup Tribe to review next steps to develop Puyallup Tribe interpretative display or art piece.
- Construction of the WSDOT Point Defiance Bypass project's platform extension and south platform to be substantially completed.
- Completion of Safety certification for the south passenger platform in order to operate additional two Sounder trains.

## Closely Monitored Issues

- Coordination with WSDOT on the design integration of the platform extensions to the Trestle design package and signal design integration of the ST Tacoma Trestle Project and WSDOT Point Defiance Bypass Project.