Agency Progress Report Capital Programs



Soffit Panels Installation at the Bel-Red/130th Station (East Link)

October | 2020



Editor's Note

Sound Transit's Monthly Agency Progress Report summarizes projects and major contracts status, risk, and performance for capital projects.

Due to timing differences in the production of the APR and the ST financial statements, actual cost data presented in the APR may not match the quarterly financial statements. However, the actual cost data is reconciled to the financial statements on a monthly basis.

We always appreciate any suggestions you might have for future refinements to this document. To be added to the distribution list for this report or to make suggestions, please contact Julie Parker at (206) 398-5000.

The Agency Progress Report can also be found on the web at http://www.soundtransit.org/get-to-know-us/documents-reports/agency-progress-reports.

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Agency Progress Report

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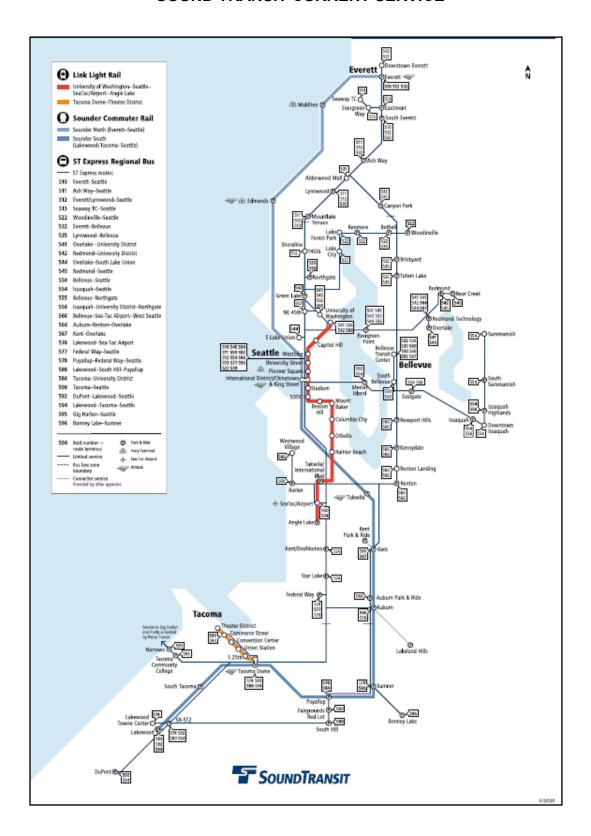
Victoria Woodards *Tacoma Mayor*

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SOUND TRANSIT CURRENT SERVICE





SOUND TRANSIT FUTURE SERVICE







Executive Summary Sound Transit Capital Program

New Chief Safety Officer

On Oct. 26, Sound Transit welcomed our new Chief Safety Officer, David H. Wright II.

David joined Sound Transit with more than 20 years of experience in transit and rail safety.

In addition to focusing on current transit operations, David will oversee the safety certification plans for our light rail expansions and the future resumption of Amtrak Cascades service on Point Defiance Bypass tracks that Sound Transit owns.

Most recently, David served as the corporate safety director at GOGO, where he was in charge of a global safety management system that complied with aviation safety requirements in more than 15 countries. While serving as the safety director at Holland LP, a rail services and construction company, David revamped their safety programs and significantly reduced their rates of injuries and incidents.

He spent the early part of his career at the Chicago Transit Authority, where he received promotions to successively more pivotal safety roles.

David's introduction to his new role at Sound Transit was facilitated by acting CSO Moises Gutierrez, who implemented a new organizational structure and strengthened its safety certification processes during his temporary tenure.

Federal Update

Although efforts in Washington, D.C., on a new COVID relief package remained uncertain in October, we continued to engage with our congressional delegation about the pandemic's effect on our revenues and the need for additional federal support, while also underscoring our support for the House-approved \$2.2 trillion COVID relief package.

A provision in the House version allocated additional funds in inverse proportion to a project's federal funding share. Since Sound Transit sought relatively low federal contributions for Lynnwood Link (36%) and Federal Way Link (25%), we would receive an estimated \$375 million in additional funding on top of our previously issued grants for the two projects – the most of any of the 14 agencies eligible to participate in this set-aside.

The bill would also use formulas to award an estimated \$594 million to our region's 10 transit agencies.

In late October, ST Board member and Lynnwood Mayor Nicola Smith and I talked directly with Congressman Rick Larsen about the House bill while giving him a tour of the Mountlake Terrace Transit Center construction site. Congressman Larsen is a senior member of the U.S. House of Representatives Committee on Transportation and Infrastructure. Additionally, Lynnwood Link Extension Executive Project Director Randy Harlow gave the congressman a tour of the site following strict safety protocols.

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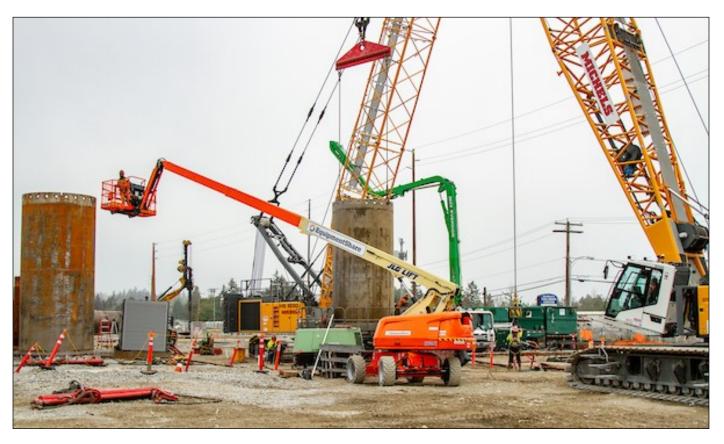
Construction Update

Federal Way Link Extension

On Oct. 7, Sound Transit crews started their heavy civil construction on the Federal Way Link Extension, as they began building the light rail guideway by constructing drill shafts at the site of the future Kent/Des Moines Station.

Crews had spent months demolishing buildings, removing trees, relocating underground utilities and clearing and grading.

Kiewit Infrastructure West is the design-build contractor for the Federal Way Link Extension. The \$3.1 billion project budget includes up to \$790 million from a full funding grant agreement executed by the Federal Transit Administration. In addition, the U.S. Department of Transportation's Build America Bureau executed a \$629.5 million low-interest loan supporting the project. That loan was one of four loans captured in a Master Credit Agreement reached between Sound Transit and the USDOT at the end of 2016. The one-of-its-kind agreement should save regional taxpayers between \$200 million and \$300 million through lower interest costs.



Kent/Des Moines Station site, Drill shaft media event

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Executive Summary



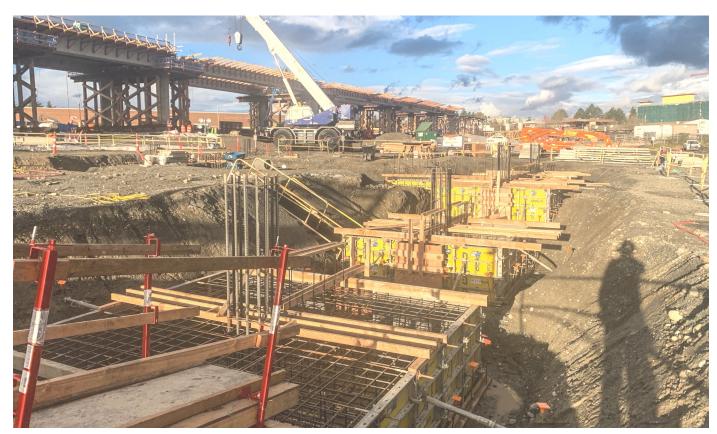
Lynnwood City Center parking garage

In other construction news this month, in mid-October, Sound Transit crews started construction on the Lynnwood City Center parking garage at the Lynnwood Transit Center. The new garage will contain 1,670 parking stalls in a five-story structure. Along with adjacent surface lots containing 226 stalls, the Lynnwood City Center Station will have nearly 1,900 parking stalls, approximately 500 more stalls than are on the current transit center site.

The new structure, which is being built by Skanska Constructors L300, JV, is projected to achieve LEED® silver certification. Perforated metal panels installed on the lower levels will prevent unauthorized access while still providing visibility for public safety.

The parking garage will have driveway entrances off of 48th Avenue and 44th Avenue and an easy connection to the adjacent elevated light rail station. Landscaping around the parking garage will emphasize plants native to the Pacific Northwest, while plants in the station's parking lots, plazas and pedestrian promenade will include a mixture of drought-tolerant ornamental plants and regionally native plants.

The parking garage is scheduled to open to the public in the spring of 2023, more than a year before light rail service to the Lynnwood City Center Station begins, in order to allow for the site work around the station to be completed, including the surface parking lots, landscaping and other amenities.



Lynnwood City Parking Garage site construction

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Sound Transit Workers to the rescue

There was also some scary but heroic news in this month's construction update. On Oct. 15, a private car traveling down the 145th on-ramp pulled over and parked on the shoulder of I-5 adjacent to a Lynnwood Link Extension worksite. The driver left his car and entered the site. The man was having a heart attack.

Construction workers Tim Scrupps, Ryan Nelson and Will Skinner jumped in to help the driver, moving him a safe location, covering him with a blanket and waiting with him until Fire/EMT transported him to the hospital.

The team then moved the man's car off the shoulder to a safe location into the work area. The workers took the driver's contact info to coordinate picking up his car at a later time.

Reduced Fare Program partnership with King County Metro

On Oct. 15, Sound Transit partnered with King County Metro on one of the largest subsidized annual transit pass programs in the country. The program will be available to qualified riders living in King, Pierce and Snohomish counties, and it covers travel on services provided by King County Metro, Sound Transit and the City of Seattle.

The pass covers travel on:

- King County Metro buses, Access paratransit, water taxi, Via to Transit and Trailhead Direct;
- Sound Transit's Link light rail, ST Express buses and Sounder commuter rail;
- The City of Seattle's Monorail and Streetcar.

The new program is intended to serve people with no income or very low income who cannot afford the reduced fare on public transportation already available through ORCA LIFT, the Regional Reduced Fare Program or the ORCA Youth fare. Sound Transit committed to join the program for a two-year pilot period.

Participants qualify if they receive services from one or more of the following programs, each of which has income qualifications at or below 80% of the federal poverty level:

- Aged, Blind or Disabled Cash Assistance
- Housing & Essential Needs
- Pregnant Women Assistance
- Refugee Cash Assistance
- Supplemental Security Income
- Temporary Assistance for Needy Families/State Family Assistance

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Executive Summary



The transit passes are being provided through existing state benefit programs, simplifying the eligibility process for those who qualify. Utilizing existing eligibility criteria also integrates transportation service benefits alongside other critical food and housing support and better serves more people with the greatest need.

Cards will be available through enrollment at Catholic Community Services, Public Health – Seattle & King County, or the Washington State Department of Social and Health Services.

We expect enrollment to grow gradually as agencies sign up more people and as we refine the process based on customer and partner feedback. Currently, approximately 107,000 people are enrolled in the prerequisite benefit programs in the three-county area and would be eligible.

Depending on demand, an estimated \$30 million of fare value will be provided to riders annually. The program is entering its startup year, and administrative costs are estimated to be \$3 million for 2021-22.

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Progress Report

Link Light Rail Program



Shaft Concrete Placement (Federal Way Link Extension)



Prepared by Project Control & VE | Design, Engineering & Construction Management

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Link Light Rail Program Overview



Northgate Link Extension: The University of Washington Station (UWS) to Northgate project is a 4.3-mile extension of light rail from the UWS north under campus via twin-bored tunnels to an underground station at NE 45th Street continuing to an underground station at NE 65th Street and via tunnel, retained cut and elevated sections to Northgate. Revenue Service date is September 2021. The Sound Transit Board adopted the baseline capital budget of \$2.13B originally in 2012 and revised the baseline budget to \$1.89B in October 2015.

Lynnwood Link Extension: Lynnwood Link Extension extends light rail 8.5 miles to Snohomish County along I-5 from Northgate Mall in Seattle to the Lynnwood Transit Center, with four new light rail stations. The configuration includes at-grade, elevated, and retained cut/fill alignment. The Sound Transit Board adopted the baseline capital budget of \$2.77B on May 24, 2018.

East Link Extension: East Link Extension expands light rail to East King County via I-90 from Downtown Seattle to the Overlake Transit Center area of Redmond, with stations serving Rainier Avenue/I-90, Mercer Island, South Bellevue, Downtown Bellevue, Overlake Hospital, the Bel-Red corridor, Overlake Village and the Redmond Technology Center (formerly Overlake Transit Center). Revenue service to the Redmond Technology Station is forecast for June 2023 with a tunnel route in Downtown Bellevue. The Sound Transit Board adopted the baseline capital budget of \$3.67B in April 2015.

Downtown Redmond Link Extension: This project builds a new light rail from the Redmond Technology Station to downtown Redmond by 2024. Light rail will travel along SR-520 with two new stations in southeast Redmond, at Marymoor Park, and downtown Redmond. The ST Board adopted the baseline capital budget of \$1.53B on October 25, 2018.

West Seattle and Ballard Link Extensions: The West Seattle & Ballard Link Extensions are voter-approved projects under the ST3 Plan. West Seattle segment includes 4.7 miles of light rail from downtown Seattle to West Seattle's Junction neighborhood. It includes five light rail stations. The route will run primarily on elevated guideway with a new rail-only bridge over Duwamish River. The Ballard segment includes 7.1 miles of light rail from downtown Seattle to Ballard's Market Street area. It includes nine light rail stations. The route will run through a new downtown Seattle rail-only tunnel, elevated guideway, and a rail-only bridge over Salmon Bay. The current budget for these projects through completion of Preliminary Engineering is \$286M.

Federal Way Link Extension: The Federal Way Link Extension adds approximately 7.8 miles of light rail from the Angle Lake Station in the City of SeaTac to the Federal Way City Center. The extension generally parallels SR 99 and I-5 freeway with stations at Kent/Des Moines, South 272nd Star Lake park-and-ride and the Federal Way Transit Center. The Sound Transit Board adopted the baseline capital budget of \$2.45B on September 27, 2018.

Hilltop Tacoma Link Extension: The Hilltop Tacoma Link Extension is a 2.4 mile extension of the existing Tacoma Link system from the Theater District in downtown Tacoma to the Hilltop neighborhood. The extension will travel at-grade along Stadium Way, North 1st Street, Division Avenue, and Martin Luther King Jr. Way. The Sound Transit Board adopted the baseline capital budget of \$217.3M originally in September 2017. The Board approved a revised baseline of \$252.7M in June 2020.

Tacoma Dome Link Extension: This project will extend light rail from the Federal Way Transit Center in the City of Federal Way to the Tacoma Dome area in the City of Tacoma a total distance of approximately 9.7 miles, generally along or near I-5 with three elevated stations at South Federal Way, Fife, and East Tacoma, and one at-grade/retained station at the Tacoma Dome. The budget for this project through completion of Preliminary Engineering in June 2019 is \$125.7M.

Link Operations and Maintenance Facility East: This project located in the City of Bellevue, includes a 160,000 square foot operations and maintenance facility that will maintain, store and deploy and expand light rail fleet, including seven LRV service bays, a LRV wash facility and storage for up to 96 light rail vehicles. The ST Board adopted the baseline capital budget of \$449.2M in July 2016.

Light Rail Vehicle (LRV) Fleet Expansion: This project includes the design, manufacturing, inspection, testing and delivery of 152 low floor LRVs for service requirements of Northgate, East Link and Lynnwood Link Extensions. The Sound Transit Board adopted the baseline capital budget of \$733M originally in 2015 and revised the baseline budget to \$740.7M in April 2017 to allow for the procurement of 30 additional vehicles.

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Program Budget

Project figures for active projects are represented in millions below.

Project	Authorized Project Allocation	Commitment to Date	Incurred to Date	Forecast to Complete	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Northgate Link Extension	\$1,899.8	\$1,717.9	\$1,673.3	\$129.4	\$1,847.3	\$52.5
Lynnwood Link Extension	\$2,771.6	\$2,401.9	\$974.3	\$369.7	\$2,772.5	\$0.0
NE 130th Infill Station	\$28.9	\$17.3	\$7.3	\$11.6	\$28.9	\$0.0
I-90 Two- Way Transit & HOV	\$225.6	\$209.6	\$199.6	\$16.0	\$225.6	\$0.0
East Link Extension	\$3,677.2	\$3,134.1	\$2,723.2	\$544.0	\$3,677.1	\$0.0
Downtown Redmond Link Ext.	\$1,530.0	\$912.2	\$256.3	\$617.8	\$1,530.0	\$0.0
West Seattle and Ballard Link Ext.	\$285.9	\$104.9	\$87.6	\$181.0	\$285.9	\$0.0
Federal Way Link Extension	\$2,451.5	\$1,722.4	\$615.3	\$729.1	\$2,451.5	\$0.0
Hilltop Tacoma Link Extension	\$252.7	\$201.9	\$145.0	\$50.8	\$252.7	\$0.0
Tacoma Dome Link Extension	\$125.7	\$59.3	\$38.2	\$65.4	\$125.7	\$0.0
Link O & M Facility: East	\$449.2	\$368.0	\$359.2	\$81.2	\$449.2	\$0.0
LRV Fleet Expansion	\$740.7	\$671.8	\$245.1	\$69.0	\$740.7	\$0.0
Total Link	\$14,438.9	\$11,521.4	\$7,324.5	\$2,865.0	\$14,387.2	\$52.5

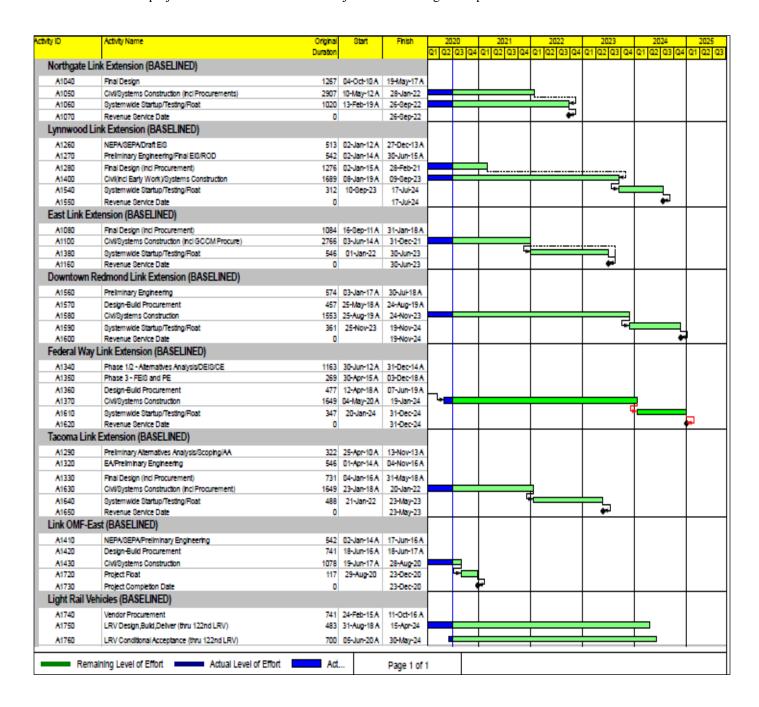
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Link Light Rail Program Overview



Program Schedule

Schedules for active projects are summarized below. Projects in the re-alignment process are not shown.



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Project Summary

Scope

Limits The Northgate Link Extension consists of 4.3

miles of light rail extending from the University of Washington to Northgate.

Alignment The extension begins at UW Station,

continues under UW campus, then north to a portal at NE 94th Street, then transitioning to an aerial structure north to Northgate Mall.

Stations U District Station (UDS)

Roosevelt Station (RVS)

Northgate Station and Parking Garage

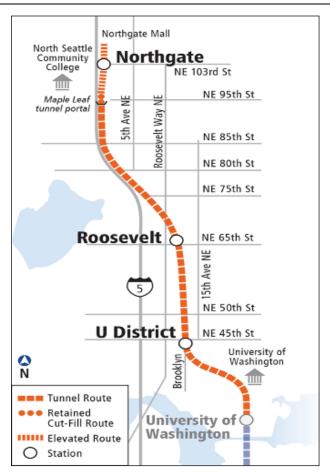
Systems Signals, track electrification, and SCADA

communications

Phase Construction

Budget \$1.899 Billion

Schedule Revenue Service: September 2021



Map of Project Alignment

Key Project Activities

- U District Station/UW Campus (N140): Door pull testing took place during the Emergency Ventilation System Level 3 mode tests. Testing on the Fire Alarm Control Panel and Access Control is pending completion of N830 work. The escalator balustrade lighting change is expected to commence late November and complete mid-December.
- Roosevelt Station (N150): Contactor continues with escalator lighting modifications.
- Northgate Station (N160): Station: Absher continuing site-wide clean up and beginning Platform punch list items. Elcon continuing to work on Mezzanine level access control and Fire Alarm Control Panel. Mid-American continues working on L & I punch list.
- Systems (N830): The U District and Roosevelt Traction Power Sub Stations are energized. Overhead Catenary System / Electro Magnetic Interference connection to the U of Washington Station completed. Live wire testing with one car completed from University of Washington to U District Station adjustments and four car testing also to be undertaken. Working to resolve outstanding communications installation issues.
- Environmental: Environmental and safety site walks conducted on all Northgate contracts.

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Closely Monitored Issues

N160 Northgate Station – Engineer of Record and ST reviewing lighting options. ST was able to meet with L & I and resolve escalator lighting deficiencies and pinch point concerns.

N830 Systems – Continuing delays in L&I signal house approvals will affect the completion of the Systems Integration Testing (SIT) testing; Final L&I inspection is still being scheduled.

Project Cost Summary

The project cost is summarized in two cost categories. The first table summarizes cost in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes the project in accordance with the FTA's Standard Cost Category (SCC) format. The figures in both tables are shown in millions.

The Estimated Final Cost (EFC) for the project as of this reporting period is \$1,847.3 M, which is \$52.5 M below the current project budget, unchanged since last period. This period approximately \$11.7 M was incurred, primarily on the major construction and construction support contracts.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$144.9	\$130.4	\$88.1	\$88.8	\$125.4	\$4.9
Preliminary Engineering	\$15.1	\$15.1	\$15.1	\$15.1	\$15.1	\$0.0
Final Design	\$132.2	\$137.2	\$126.2	\$122.8	\$132.0	\$5.2
Construction Services	\$118.3	\$118.3	\$103.7	\$98.5	\$111.8	\$6.6
3rd Party Agreements	\$11.8	\$11.8	\$8.6	\$7.6	\$11.4	\$0.4
Construction	\$1,343.0	\$1,352.5	\$1,274.0	\$1,238.9	\$1,340.8	\$11.7
ROW	\$112.3	\$112.3	\$102.2	\$101.7	\$110.9	\$1.4
Project Contingency	\$22.2	\$22.2	\$0.0	\$0.0	\$0.0	\$22.2
Total	\$1,899.8	\$1,899.8	\$1,717.9	\$1,673.3	\$1,847.3	\$52.5

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project	Commitment to Date	Incurred to Date	Estimated Final Cost	Authorized Allocation vs.
10 Guideway & Track	\$595.6	\$523.2	\$517.2	\$511.7	\$530.7	-\$7.6
20 Stations	\$376.1	\$439.6	\$449.9	\$444.4	\$461.7	-\$22.2
30 Support Facilities: Yard, Shop	\$5.3	\$6.1	\$6.5	\$6.5	\$6.5	-\$0.3
40 Sitework & Special Conditions	\$140.8	\$232.2	\$179.8	\$172.8	\$189.5	\$42.7
50 Systems	\$110.9	\$101.5	\$107.5	\$92.1	\$117.2	-\$15.7
Construction Subtotal (10 - 50)	\$1,228.7	\$1,302.6	\$1,260.9	\$1,227.5	\$1,305.6	-\$3.0
60 Row, Land, Improvements	\$119.9	\$110.9	\$102.2	\$101.7	\$110.9	\$0.0
80 Professional Services	\$420.7	\$424.9	\$354.8	\$344.1	\$424.9	\$0.0
90 Contingency	\$130.4	\$61.4	\$0.0	\$0.0	\$5.9	\$55.5
Total (10 - 90)	\$1,899.8	\$1,899.8	\$1,717.9	\$1,673.3	\$1,847.3	\$52.5

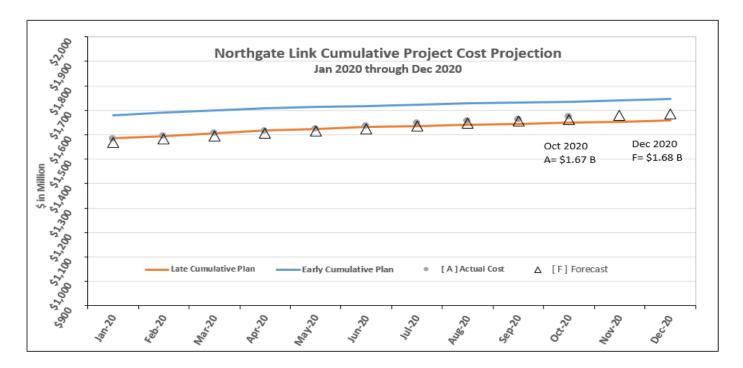
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Project Cash Flow Projection

The Northgate Link cost aligns with the planned expenditures as construction activities continue.

Total project cost to date reached \$1.67B of which about \$1.24B (74%) is attributed to construction. The project cost is forecast to level out just above \$1.68B by December 2020, reflecting the winding down of active construction activities as the remaining civil contracts reach Substantial Completion or Closeout.



Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks. The top project-wide risks are:

- N140, N160 and N830: As a result of pandemic conditions related to outbreak of COVID-19, activities on one or more construction projects are delayed by a month or more.
- N140, N150 & N160: Insufficient illumination at escalators (in violation of code) prevents approvals by the L&I of permits
 and causes subsequent delays.
- N140: Seattle Department of Construction and Inspections (SDCI, formerly DPD) or Seattle Fire Department will revise
 fire and life safety codes, or there may be other issues such as different code interpretations that result in additional
 ventilation, egress, or mechanical and electrical requirements at stations.
- N140: EVS Level 3 commissioning requires re-work or changes based on testing results which causes lack of resources and potential delays.
- N160: Late start up and commissioning (Level 1 & 2) delays substantial completion.
- N830: Long-lead procurement items such as Signal bungalows may not be delivered on time for start-up.

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Contingency Management

The Northgate Link project budget was baselined in 2012 with a total contingency of \$396.2M.

Design Allowance (DA) was established to account for unquantified scope at the time of the cost estimate. DA has been fully depleted and all major contracts have been awarded.

Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement.

Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties.

In January 2020, a change was made to how \$22.2M in project contingency is counted. Previously counted as AC, it is now counted as UAC. In addition, \$18.0M in AC was transferred to UAC as part of the 2020 budget update.

In this period, AC decreased by \$2.2M due to change orders on construction contracts. The overall contingency balance remains well above both the minimum and the buffer zone contingency levels.

Contingency Status (Monthly)

Baseline **Currrent Status** Type % of Total Remaining % of Work Amount **Budget** Amount Remaining Design \$113.9 6.0% \$0.0 0.0% Allowance Allocated \$184.0 9.7% \$73.1 42.0% Contingency Unallocated \$98.3 5.2% \$60.1 34.6% Contingency \$396.2 20.9% Total: \$133.2 76.6%

Contingency by Type

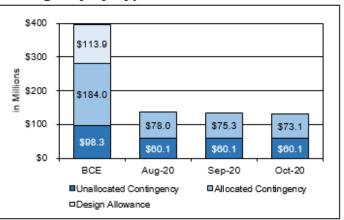
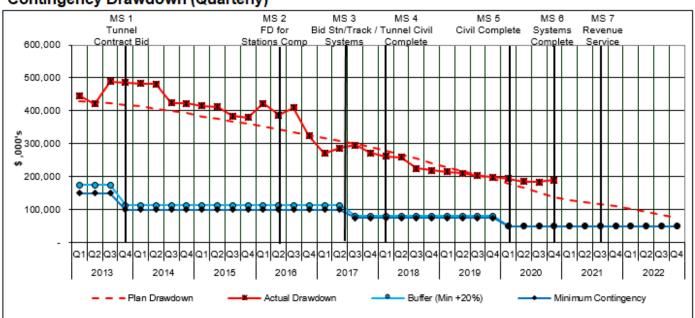


Table figures are shown in millions.

Contingency Drawdown (Quarterly)

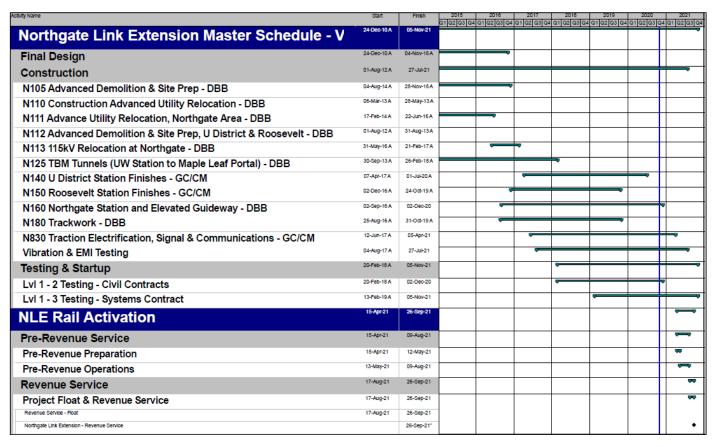


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Project Schedule

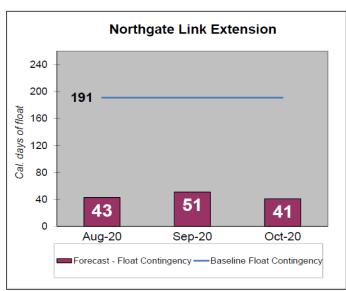
In October 2020, the physical percent complete for all Northgate Link construction contracts remained at 97.4%. Slipping milestones offset the work accomplished. Completion of the civil construction continues to be forecast for Q4 2020, including punch list items. The controlling operations with in the schedule are now completion of N160 and N830 construction, and moving into Systems Integration Testing (SIT). ST is continuing to work with the Systems contractor to integrate the SIT Schedule into the overall CPM. Revenue Service remains September 2021.



Project Float

Project float for the Northgate Extension decreased from 51 days to 41 days. The decrease was driven by the continued slippage of work related to AHJ inspection and subsequent delivery, and installation of the Signal Houses.

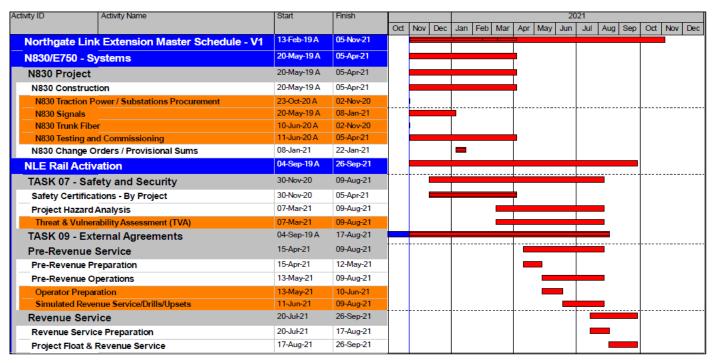
A complete assessment of the remaining Project Float will also require Time Impact Analyses from the systems contractor, as well as an independent analysis by ST CMC's. These will serve as the basis for adjusting contract time frames and milestones.



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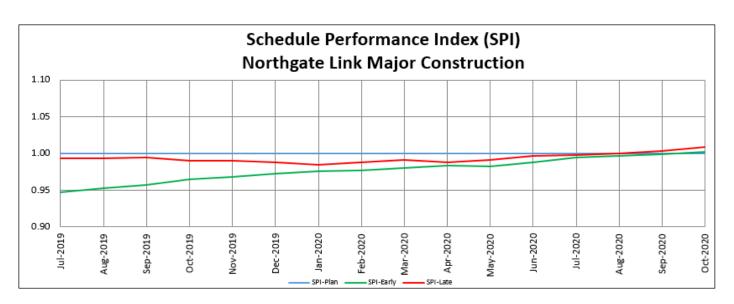
Critical Path Analysis

The critical path for Northgate Link remains in the N830 Systems contract. The driving issue in this update is the completion of Northgate Station Signals work. The path then continues into System Integration Testing, followed by completion of Safety Certifications and Training. ST is continuing to work with MEC to better integrate the SIT schedule into the contract CPM. Completion of the Gold Seal process and approval of the Signal Houses is a driving factor in this months' update.



Schedule Performance Index

The early Schedule Performance Index (SPI) for the project is at 1.01 for this period, and the late SPI is at 1.01, showing that in general, performance remains on, or very close to plan.

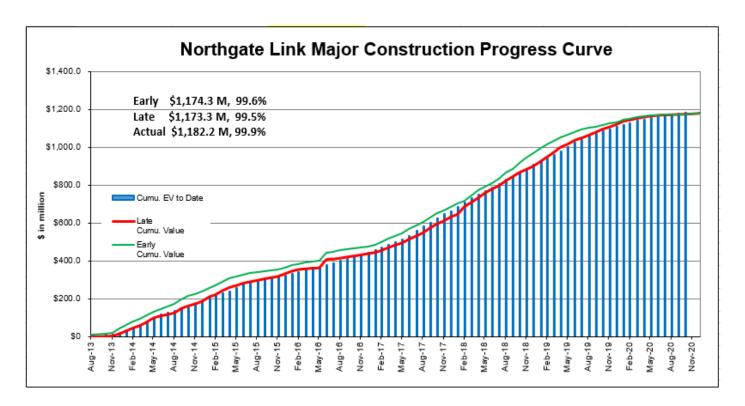


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Cost Progress Analysis

Overall Northgate Link major construction percent complete analysis is based on a weighted measurement among the six major construction contracts' schedules, durations and costs. The graph below shows the aggregate cost progression for these construction contracts is trending toward the early projection as drawn from the master schedule.



Community Outreach

- Worked with University Manor Apartments and Neptune Theater to remove monitoring equipment in the University District.
- Attended University of Washington Tower monthly meeting to provide update.
- Met with Northgate Link Opening Racial Equity Toolkit (RET) team to kick off project.
- Worked with Hampton Inn around nighttime closure of 1st Ave NE.
- Responded to questions regarding system testing and the opening date.

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Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average takes peaks and valleys in activity into account; whereas the YTD monthly average only reflects actuals from January 2020 till the current month. Project staff support has scaled down faster than anticipated as major civil construction contracts near completion. For the 29 consultant FTEs, we planned for 4 design (including Design Services during Construction) and 25 for construction management. The overrun in YTD is driven by the extension in Civil Substantial Completion dates.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	42	32	(10)
Consultants	29	44	15
TOTAL	71	76	5

^{*} An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Construction Safety

Construction Safety: Northgate Link Extension September 2020

Data/Measure	Oct-20	Year to Date	Project to Date			
Recordable Injury/Illness Cases	0	1	114			
Days Away From Work Cases	0	0	6			
Total Days Away From Work	0	0	397			
First Aid Cases	0	7	187			
Reported Near Mishaps	0	3	146			
Average Number of Employees on Worksite	73	-	-			
Total # of Hours (GC & Subs)	12,448	268,024	5,176,186			
OSHA Incident Rates	Month	Year to Date	Project to Date			
Recordable Injury Rate	0	0.75	4.4			
LTI Rate	0	0 0.23				
Recordable National Average		3				
LTI National Average		1.2				
Recordable WA State Average		6				
LTI WA State Average		1.9				

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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Major Construction Contract Packages

Below are the major construction contract packages for the project with a brief scope description of each.

N105 Advance Demolition and Site Prep - Demolition of Key Bank Building, removal of underground storage tanks and remediation of contaminated soil at UDS. Demolition site and site prep at strip mall near the NG Station. (Complete)

N111 Advanced Utility Relocation at Northgate Area - Relocation of 26kV and communication lines at the Northgate Station vicinity. (Complete)

N113 115kV Relocation at Northgate Station Area - Relocation of overhead electrical facilities at the Northgate Station area. (Complete)

N125 TBM Tunnels UW Station to Maple Leaf Portal - Tunneling work and support of excavation of station boxes for the U District and Roosevelt stations. (Complete)

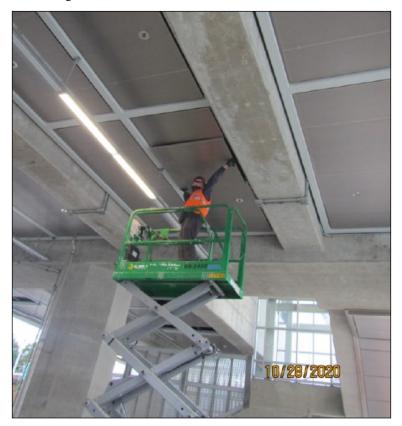
N140 U District Station Finishes - Civil and architectural finishes work for the U District Station (Substantially Complete)

N150 Roosevelt Station Finishes – Civil and architectural finishes work for the Roosevelt Station (Substantially Complete)

N160 Northgate Station & Elevated Guideway & Parking Garage - Civil and architectural finishes work for the Maple Leaf Portal, the aerial guideway, and the Northgate Station and Tail Track. Construction of a 450 stall parking garage to be located at the south corner of the existing Northgate Mall surface parking lot at NE 103rd St. near 1st Avenue NE.

N180 Trackwork - Installation of all trackwork through two tunnels and three stations between UW Station and Northgate Station, including tail track. (Substantially Complete)

N830 Track Electrification, Signals, Communication System - Installation of the major system elements – Traction Electrification, 26kV Distribution, Signals, and Communications.



N160—Worker removing ceiling metal panel section at Station for Systems access.

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Contract N140—U District Station Finishes

Current Progress

The N140 Contractor, Hoffman Construction, achieved Substantial Completion on April 3, 2020. Hoffman focused on the following activities through the end of October:

- Continued working on punch list items.
- Continued change management and closeout activities.
- Continued preparations for escalator balustrade lighting change.
- Continued preparations for articulated lift enclosure for Operations.

Next Period's Activities

- Continue working on punch list items.
- Continue preventative maintenance activities.
- Commence installation of SCL vault lid and alley approach.
- Begin work on sidewalk corners north of 45th Ave.

Closely Monitored Issues

• Nothing to report.

Cost Summary

Present Financial Status	Amount					
N140 Contractor—Hoffman Construction						
Original Contract Value	\$159,836,688					
Change Order Value	\$11,895,221					
Current Contract Value	\$171,731,909					
Total Actual Cost (Incurred to Date)	\$167,268,909					
Percent Complete	99.4%					
Authorized Contingency	\$15,491,834					
Contingency Drawdown	\$11,895,221					
Contingency Index	1.3					



University District Station - Basement Level 2 Mezzanine

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Contract N150 - Roosevelt Station Finishes

Current Progress

The N150 Contractor, Hoffman Construction, achieved Substantial Completion on September 24, 2019. Hoffman focused on the following activities through the end of October:

• Continued post-acceptance support of Systems installation work.

Next Period's Activities

Continue work on change management and close-out documentation.

Closely Monitored Issues

Nothing to report.

Cost Summary

Present Financial Status	Amount
N150 Contractor—Hoffman Construction	
Original Contract Value	\$152,291,184
Change Order Value	\$17,305,613
Current Contract Value	\$169,596,797
Total Actual Cost (Incurred to Date)	\$168,121,628
Percent Complete	99.9%
Authorized Contingency	\$18,914,559
Contingency Drawdown	\$17,305,613
Contingency Index	1.1

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Contract N160 - Northgate Station, Elevated Guideway, and Parking Garage

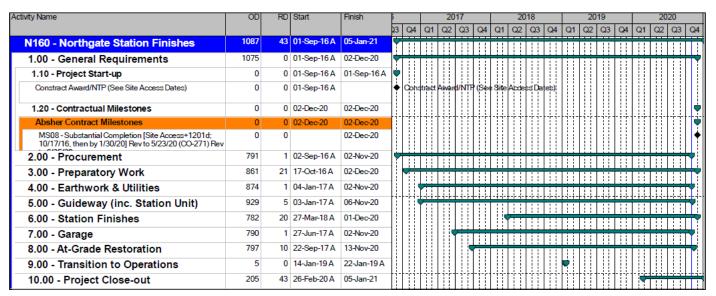
Current Progress

The N160 prime contractor, Absher Construction, and its various subcontractors are continuing work in all areas of the project. Accomplishments through the end of October include:

- Weekly Environmental site walk, safety walk and CMC pre-punch list walk was conducted.
- Purcell applying sealer to A10, A11 and A12 columns and caps of guideway substructure/superstructure.
- Work on garage crack sealing work, continuing to work on water leak injections and removed additional sheetrock.
- Continued with main station work including continuing with cleanup, drilling and installing benches, caulking panels, working on bike runnels, BMS testing of elevators, touchup paint.

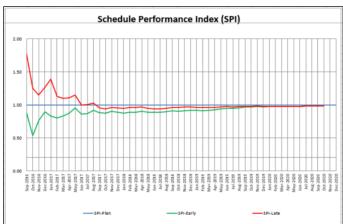
Schedule Summary

The project schedule for October forecasts a Substantial Completion date of December 2, 2020, negative 160 days beyond the current contract date of June 25, 2020. The critical path is now driven by completion of Testing at the Maple Leaf Portal (MLP) TPSS. ST has reviewed the schedule and critical path sequence and returned the submittal for revision. Absher has submitted a revision that is currently under review.



Schedule Performance Index

This period, the SPI early is 0.98 (same as last period) and the SPI late is at 0.98 (same as last period), indicating no major change in performance since last month. However, the indices indicate that the contractor continues performing slightly behind plan when compared to the baseline schedule. Overall work progress has remained within 0.03 of its current trend over the last year.



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Next Period's Activities

- Sealing of cracks on L1 deck to continue.
- Continue with rebar and forming for Stair 4 steps/ landing.
- Installing plaza level site furnishings.
- Fire alarm device component testing.
- Installation of curtain wall trim pieces.
- Continue guideway sealants and station paint touch-up.
- Continue with caulking and platform level cleaning.
- All subcontractors are prepping for substantial completion walks.
- Continue placing remaining concreate pavement for South Plaza.
- WSDOT final inspection scheduled for Tree Mitigation Site.

Closely Monitored Issues

- Electrical progress including overcurrent protection issues slower than expected due to delay in systems integration, startup, testing.
- Delay to substantial completion delaying start up and commissioning.
- Pandemic conditions related to outbreak of COVID-19 impacts on delayed construction activities and delays to Substantial Completion and/or Acceptance.
- Risk of changes to station design and/or existing transit center operation resulting from various issues with King County (Metro bus), Operations or Facilities.
- Inspection of escalators has identified lighting deficiencies and pinch point concerns.
- Overcurrent Protection Studies Station and MLP submittals were returned for Siemen's response.
- MLP coordination between multiple contracts.
- Garage warranty items under discussion at the executive level.

Cost Summary

Present Financial Status	Amount
N160 Contractor - Absher Construction	
Original Contract Value	\$ 174,000,000
Change Order Value	\$ 14,312,818
Current Contract Value	\$ 188,312,818
Total Actual Cost (Incurred to Date)	\$ 185,479,219
Percent Complete	98.5%
Authorized Contingency	\$ 17,400,000
Contingency Drawdown	\$ 14,312,818
Contingency Index	1.2



Washing flooring tiles of station platform

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Contract N180 - Trackwork UWS to Northgate Station

Current Progress

The N180 Contractor, Stacy and Witbeck, Inc. (SWI) achieved Substantial Completion of all Milestones on October 31, 2019.

Remaining work includes punch list items for all work areas and documentation prior to closeout, which is almost complete with the exception of a few remaining documents currently in process.

Next Period's Activities

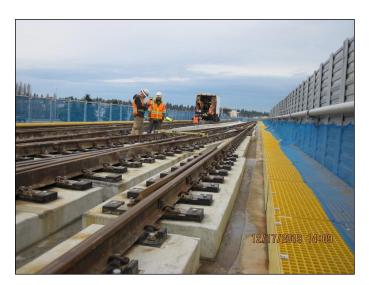
 Continue closing out the last handful of documents to be submitted by the contractor for review.

Closely Monitored Issues

 Communication and coordination between contracts is ongoing, monitoring related activities to bring the contract to a successful close-out.

Cost Summary

Present Financial Status	Amount							
N180 Contractor - Stacy and Witbeck,	Inc.							
Original Contract Value	\$	71,455,950						
Change Order Value	\$	4,845,477						
Current Contract Value	\$	76,301,427						
Total Actual Cost (Incurred to Date)	\$	75,472,966						
Physical Percent Complete		100.0%						
Authorized Contingency	\$	10,718,393						
Contingency Drawdown	\$	4,845,477						
Contingency Index	\$	2.2						



Closeout activities continue

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Contract N830 - Northgate Link Systems, Heavy Civil GC/CM

Current Progress

The N830 Contractor, Mass Electric Construction Co. (MEC), continued to carry out the work as follows:

- Installed radio devices and communications devices at Roosevelt Station (RVS).
- Installed fiber conduit, install radio devices and racks, and perform testing on signal equipment at U District Station (UDS).
- Installed feeder cabling, cameras and devices, and preformed TPSS field installation testing at Northgate Station.

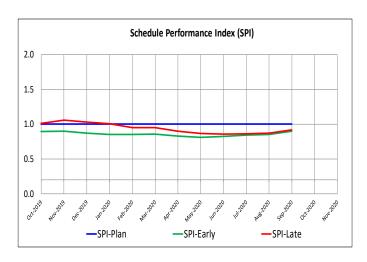
Schedule Summary

The N830 September schedule update forecasts a *Substantial Completion* of May 12, 2021. The critical path for the contract is driven by the assembly and installation Train Control (TC) House to be installed at the Northgate Station. This installation drives the final testing of the SCADA system and subsequent As-Built drawings. The schedule update has been reviewed, and comments resolved. ST is working with both Washington State L&I and MEC contractor in order to mitigate the TC House timeline. *Milestone 10—Completion of Tunnel* work between UWS and UDS is now forecast for November 30, 2020. Floating Slab testing is planned to start in December, with EMI testing following in January.

Activity Name	OD	RD	Start	Finish	017			20	118			20	19			20	20			20	21	
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
N830/E750 - Systems	946	129	12-Jun-17A	12-May-21	1	11	11	::	===	!!	111	11			11	11	11	11		7	П	Ш
N830 Project	946	129	12-Jun-17 A	12-May-21	 	11	11	11	::	11		11		11	11		11		ä	7		
N830 Contract Milestones	1398	0	12-Jun-17 A	12-May-21	 	!!	!!	!!		!!	!!	!!	!!	!!	!!	!!	!!	!!	Ħ	7		
NTP - Notice to Proceed (NTP) Northgate and East Link	0	0	12-Jun-17 A		NI	P÷Nk	tice	o Pro	odeleo	I (NT	P)Nk	rthg	atela	nd E	ast L	nk	Ш				H	. ! !
MS#05 Northgate: Substantial completion of Northgate Link sy	0	0		12-May-21								Ш						H		M	S#0!	Nort
N830 Construction	804	119	20-Dec-17 A	26-Mar-21		N	11		11		111	11	11	11		11	111		-	Ϋ́		
N830 OCS	561	49	10-Sep-18 A	13-Dec-20			Ш		•	11	::	11	H	::	11	11	11	÷				.
N830 Traction Power / Substations Procurement	715	30	20-Dec-17 A	12-Nov-20			++	11	11	11	!!	!!	1.1	1.1	!!	11	11		Ш			Ш
N830 Signals	567	62	15-Aug-18 A	06-Jan-21					•	::	:::		::	:::	1 : :	1 : :		÷				
N830 Communications	683	29	10-Feb-18 A	10-Nov-20		Ш	-	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!		Ш		Ш	Ш
N830 Radio	551	23	09-Jul-18 A	02-Nov-20	``						- -				1			•		T		
N830 Trunk Fiber	534	22	28-Sep-18 A	30-Oct-20						;;		!!!	11		111	111		•			Ш	Ш
N830 Testing and Commissioning	627	119	07-Sep-18 A	26-Mar-21						!!	11	11	!!	! !	!!	11	::	::	$\ddot{}$			

Schedule Performance Index

Performance for September is shown as the October invoice has been submitted but not approved. September SPI-Early is 0.9 (increased from 0.84 last period) and the SPI-Late is 0.91 (increased from 0.86 last period). Activities decreased in response to the COVID-19 pandemic. On April 3rd, Sound Transit issued a Stop Work order until May 4, 2020, which limited work that was allowed on site. October performance data has been submitted and is under review by ST.



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Link Light Rail Northgate Link Extension



Next Period's Activities

- Continue development and reviews of engineering submittals covering all disciplines: Traction Power Substations (TPSS), Overhead Catenary Systems (OCS), Train Control Signal Systems, and Communications.
- Ongoing coordination meetings between systems and civil contractors for interface and access points for respective contracts.
- Ongoing installation of TPSS equipment in train control room, and signal racks in train control equipment room and communication cables/devices at University District Station.
- Ongoing installation of TPSS wiring, cables and conduit.
 Continue device testing and energize systems at Roosevelt Station.
- Ongoing installation of cabling, testing and inspection at Northgate Station.

Closely Monitored Issues

- ST and CMC closely monitoring conduit handover from Civil to Systems contractor; mitigation steps have been taken by the Systems CMC surveying all conduits and to work closely with the Civil Contractors to rectify the situation.
- Ongoing impacts to worker productivity due to the COVID-19 pandemic and the necessity to wear masks and practice social distancing on the jobsite are being closely monitored and will be further assessed once better characterized.

Cost Summary

Present Financial Status	Amount									
N830 Contractor - Mass Electric Construction Co.										
Original Contract Value	\$104,660,444									
Change Order Value	\$1,450,412									
Current Contract Value	\$106,110,856									
Total Actual Cost (Incurred to Date)	\$86,869,353									
Percent Complete	85.3%									
Authorized Contingency	\$5,233,022									
Contingency Drawdown	\$1,450,412									
Contingency Index	3.0									

^{*}The N830 and E750 Systems is a joint procurement. The Cost Summary table above represents N830 Systems only.



Installation of feeder cable near Northgate Station

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Project Summary

Scope

Limits North Seattle to Shoreline, Mountlake

Terrace, and Lynnwood Transit Center

Alignment Lynnwood Link extends light rail 8.5 miles to

Snohomish County along I-5 from Northgate Mall in Seattle to the Lynnwood Transit Center, with four new light rail stations. The configuration includes at-grade, elevated, and

retained cut/fill guideway.

Stations Shoreline South/145th

Shoreline North/185th Mountlake Terrace Lynnwood City Center

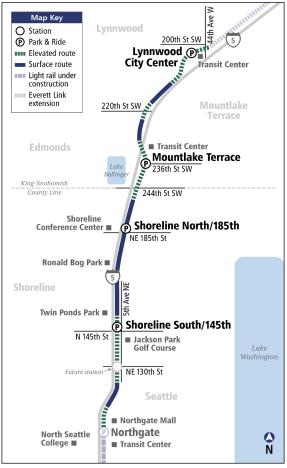
Systems Signals, traction power, communications, and

SCADA.

Phase Construction

Budget \$2.772 Billion (Baseline May 2018)

Schedule Revenue Service: July 2024



Map of Lynnwood Link Extension Alignment.

Key Project Activities

- Continued concrete placement for columns and caps and placement of pre-stressed concrete girders for the aerial guideway
 on both civil contracts, including tub girder placement at the future Shoreline South/148th and Mountlake Terrace Stations.
 Commenced placement of aerial guideway elevated deck concrete.
- Continued drilled shaft work on L300 and continued wall construction on both civil contracts.
- Continued construction of the Shoreline South/148th Parking Garage with slab-on-grade and wall concrete placements.
 Commenced construction of the Shoreline North/185th Station and Parking Garage with excavation for foundations and below-grade utility activities (L200).
- Continued construction of ancillary support buildings for the future Mountlake Terrace Station. Commenced construction of the Lynnwood City Center Station and Parking Garage with site demolition and excavation for foundations (L300).
- Continued final design work and property appraisals for widening 200th Street SW in the City of Lynnwood.
- Snohomish Public Utilities District (SnoPUD) Board of Commissioners approved the granting to ST of an aerial guideway easement over the Interurban Trail.
- Continued compilation of documentation required to exercise the Lynnwood option to integrate the L800 Systems GC/CM scope into the existing N830/E750 contract following late July Board authorization.
- Continued final design and integrated structure construction for the future 130th Station, as authorized in the February Board meeting. (Note: NE 130th Street Station is a separate project from Lynnwood Link, funded under the ST3 program).

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Project Cost Summary

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

In October 2020, \$32.6 M was incurred. The major project expenditures were for civil construction, construction management, and design services during construction. The remaining expenditures were for right-of-way, third party coordination, permitting, staff, legal and other direct charges.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$98.2	\$98.2	\$43.1	\$42.8	\$98.2	\$0.0
Preliminary Engineering	\$39.1	\$39.1	\$39.1	\$39.1	\$39.1	\$0.0
Final Design	\$164.2	\$164.2	\$141.9	\$124.2	\$164.2	\$0.0
Construction Services	\$128.4	\$128.4	\$110.8	\$46.0	\$128.4	\$0.0
3rd Party Agreements	\$14.6	\$14.6	\$10.5	\$9.4	\$14.6	\$0.0
Construction	\$1,921.4	\$2,091.6	\$1,875.7	\$547.2	\$2,091.5	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$235.7	\$235.7	\$180.9	\$165.6	\$235.7	\$0.0
Project Contingency	\$170.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$2,771.6	\$2,771.6	\$2,401.9	\$974.3	\$2,771.6	\$0.0

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$791.8	\$1,002.2	\$677.0	\$194.2	\$803.6	\$198.6
20 Stations	\$333.8	\$333.8	\$409.3	\$75.6	\$430.8	-\$97.1
30 Support Facilities	\$2.0	\$2.0	\$0.0	\$0.0	\$2.0	\$0.0
40 Sitework & Special Conditions	\$421.1	\$426.2	\$585.2	\$264.7	\$558.6	-\$132.4
50 Systems	\$244.4	\$244.4	\$194.1	\$8.9	\$213.5	\$30.9
Construction Subtotal (10 - 50)	\$1,793.0	\$2,008.5	\$1,865.6	\$543.4	\$2,008.5	\$0.0
60 ROW, Land	\$235.7	\$235.7	\$180.9	\$165.6	\$235.7	\$0.0
70 Vehicles (Non-Revenue)	\$1.4	\$1.4	\$0.0	\$0.0	\$1.4	\$0.0
80 Professional Services	\$449.3	\$447.4	\$355.4	\$265.3	\$448.0	-\$0.6
90 Unallocated Contingency	\$292.2	\$78.6	\$0.0	\$0.0	\$78.0	\$0.6
Total (10 - 90)	\$2,771.6	\$2,771.6	\$2,401.9	\$974.3	\$2,771.6	\$0.0

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Contingency Management

The Lynnwood Link project budget was baselined in May 2018 with a total contingency of \$737.7 M.

Design Allowance (DA) was established to account for unquantified scope at the time of the cost estimate. DA was fully drawn down when all construction contract packages reached the 100% design level.

Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement.

Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties.

Following a significant drawdown in project contingency in Q2/Q3 2019, Sound Transit revised the contingency forecast to align with the cash flow forecast of the major civil contracts.

During the current period AC was increased by a net of \$58K from a construction credit change order and savings captured from awarding a contract for less than budgeted.

Contingency Status

Baseline Current Status Type % of Total Remaining % of Work Amount Budget Amount Remaining Design \$247.9 8.9% \$0.0 0.0% Allowance Allocated \$197.6 7.1% \$164.5 9.2% Contingency Unallocated \$292.2 10.5% \$78.0 4.3% Contingency Total: \$737.7 26.6% \$242.5 13.5%

Contingency by Type

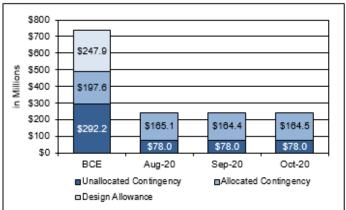
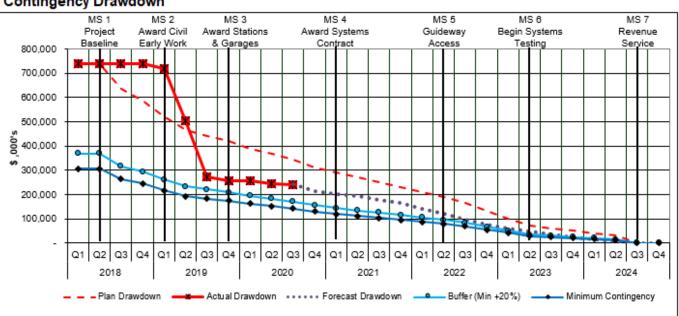


Table figures are shown in millions.

Contingency Drawdown



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Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The following are the top project risks:

- Inefficiencies in construction resulting from ongoing safety protocols instituted in response to the COVID-19 pandemic, including long lead material supplier delays and/or delays in permit inspections.
- Maintaining positive relationships with GC/CM contractors and culture of collaboration for each contract.
- Tight budget, limited contingency, and changes during construction that impact cost and schedule.
- Adequacy and consistency of design documents for the civil contracts.
- Quality of CPM schedule submittals from the civil contractors impairs master schedule clarity and reliability.
- Delays in long lead procurement of girders, elevators, escalators and other key material/equipment/resources.
- Timely completion of necessary utility relocations, ROW acquisition and ROW relocations.
- Coordination of civil/systems interface and potential for civil construction delays to systems construction.
- Increase in elevated work activity as girders are placed and I-5 overcrossing work commences, along with the associated night work and safety implications that come with the increase.

Project Schedule

The October update maintains the July 2024 revenue service date. Program Wide Float is now at 115 days, driven by logic and sequencing in the L200 schedule. Recent changes in the L200 schedule are currently under review. Absent these changes, the driving path of the program remains construction of the Shoreline South/148th Station. The L800 contractor has continued work on the baseline schedule for the Systems installations. This schedule will be submitted shortly after receipt of the Notice to Proceed.

Activity Name	Start	Finish		2020				2	U21			2	J22			2	023			2024		
•			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
LLE Master Schedule	20-May-10 A	30-Aug-23					T															
Project Administration	20-May-10 A	30-Aug-23					Ŧ											_				
Final Design/Preconstruction	01-Sep-15 A	31-Mar-23					Ħ										P					
Permitting & Agreements	07-Jan-15 A	29-Mar-21					Ħ		•													
Utilities	02-May-16 A	27-May-22					+						-									
L200 ROW Acquisitions	04-Jan-16 A	31-Mar-21	F				t		7													
L300 ROW Acquisitions	14-Jan-16A	11-Sep-21	F				T			_												
L200 Civil Construction	25-Dec-18 A	14-Oct-23	F				T												•			
L300 Civil Construction	25-Sep-18 A	27-Jul-23	F				T											_				
L800 Systems Construction	14-Nov-20	16-Nov-23					-												_			
LLE Rail Activation	01-Apr-21	17-Jul-24	Г				T		-													•
RA Tasks	01-Apr-21	25-Mar-24					T		_											,)	
Pre-Revenue Service	08-Nov-23	17-Mar-24																	-	_		
Revenue Service Preparation	25-Feb-24	25-Mar-24					T													~	,	
Revenue Service - FFGA	25-Mar-24	17-Jul-24					T													•		7
Program Wide Float (115 CD)	25-Mar-24	17-Jul-24																				
Revenue Service - 7/17/2024		17-Jul-24																				٠

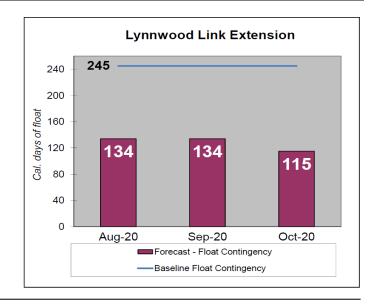
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Project Float

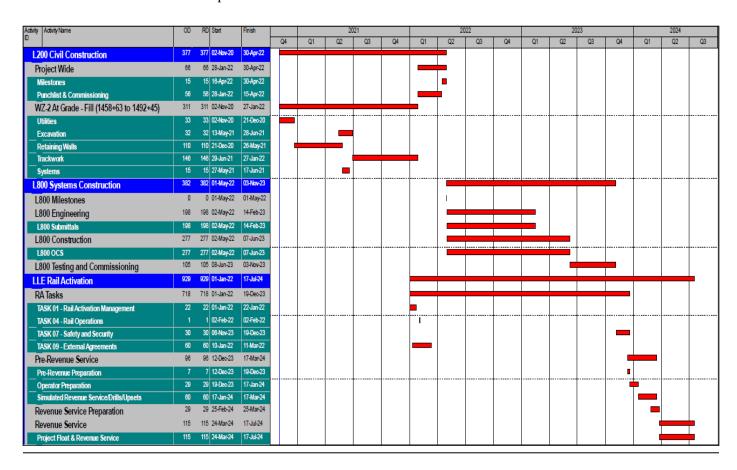
The Lynnwood Link Extension was baselined with 245 days of project float. Currently the project is calculated to have 115 days remaining between completion of work and the 17-Jul-2024 revenue service date. The change in float is due to recent changes made within the L200 schedule that ST is reviewing and has not accepted at this time. Absent those changes, project float would remain at 134 days.

The impact of the COVID-19 shutdown has yet to be assessed, as well.



Critical Path Analysis

The critical path for the Lynnwood Link Extension continues to be the L200 contract. The contractor recently resequenced construction of a utility protection slab and made MSE Wall 2500 a successor of that slab work. This resulted in a negative shift in the Work Zone 2 At-Grade track segment pushing L200's Milestone 2 track handover to L800. ST is conducting a detailed review of the changes at this time. This path remains subject to change with the assessment of COVID-19 impacts.



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Community Engagement

Distributed construction alerts via project page, .gov list server, email and door to door for the following activities around the project site, including:

- Lane closures along northbound and southbound I-5.
- Night closure for work at 1st Ave. NE and Northgate Way, and night closure at 5th Ave NE.
- Night closure at NE 117th St. for Seattle City Light work.
- Placement of girders at NE 130th St.
- Closure of NE 175th St. for Ronald Bog trail work.
- Beginning Aldercrest staging yard construction.
- Phase 2 utility installation at the NE 195th St. pedestrian bridge.
- Closures of off-ramp to westbound State Route (SR) 104 and off-ramp to eastbound SR 104.
- Right turn lane closure and pedestrian detour at 220th St. SW.
- Night work at Mountlake Terrace Transit Center and Saturday closure of Mountlake Terrace bus loop.
- 236th St. SW off ramp right turn lane closure.
- Closure at 46th Ave W/HOV ramps to Lynnwood Transit Center.
- Community Engagement staff also completed activation and initial walkthrough activities for nine temporary construction easements.

Right-of-Way

The Right-of-Way effort for this project involves the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations. The Right-of-Way program status for this period is summarized in the following table.

	Lynnwood Link Extension Property Acquisition Status												
	ACQUISIT	RELOCATION											
Total Acquisitions	Board Approved	Offers Made to date	Closings to date *	Relocations Required	Relocations Completed to date								
363	400	766	725	440	369								

All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of reporting periods. The number of Offers Made are inclusive of offers made to separate owners or interest holders. These numbers will exceed the number of Board Approved parcels. *Total number of parcels available for construction = 322.

Sound Transit Board Actions

Board Action	Description	Date
M2020-58	Authorizes the CEO to execute an amendment to the Construction Services Agreement between Sound Transit and the City of Seattle to provide construction assistance and construction services for the Lynnwood Link Extension in the amount of \$5,529,279 with a 10% contingency of \$552,928, totaling \$6,082,207 for a new total authorized agreement amount not to exceed \$37,509,266.	10/8/2020

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Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual average FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Less staff than planned has been needed for civil final design, design services during construction, and construction management. The trends are being watched; all contracts still anticipate completion within budget.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance			
ST Staff	42.6	37.0	(5.6)			
Consultants	87.0	83.0	(4.0)			
TOTAL	129.6	120.0	(9.6)			

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Construction Safety

Data/Measure	Oct. 2020	Year to Date	Project to Date					
Recordable Injury/Illness Cases	3	8	9					
Days Away From Work Cases	0	1	1					
Total Days Away From Work	0	35	35					
First Aid Cases	7	26	34					
Reported Near Mishaps	1	11	20					
Average Number of Employees on Worksite	450	-	-					
Total # of Hours (GC & Subs)	107,106	695,194	901,223					
OSHA Incident Rates	Oct. 2020	Year to Date	Project to Date					
Recordable Injury Rate	5.6	2.3	2.0					
LTI Rate	0.0	0.3	0.2					
Recordable National Average		3.0						
LTI National Average		1.2						
Recordable WA State Average	6.0							
LTI WA State Average	1.9							

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals. Data includes the L200 and L300 contracts.

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Contract L200 GC/CM—Northgate to NE 200th Street

Current Progress

The L200 Contractor, Stacy & Witbeck- Kiewit- Hoffman JV (SKH), is continuing work on site as follows:

- Work Zone (WZ)-1: Continued formwork for end diaphragms A06-A08, A13, and A14
- WZ-2: Continued wall panel installation. Completed N12-TPSS-01 (traction power substation) foundation footings.
- WZ-3: Completed transition zones, columns and caps at columns C10-13, C21, C23, and C28-30.
- WZ-4: Completed false work setting span C46; completed formwork and concrete placement for the Shoreline South/148th Garage south foundation wall.
- WZ-10: Began formwork and reinforcing steel placement for the Shoreline North/185th Station SW wall.

Schedule Summary

The October update continues to forecasts an August 29, 2023 substantial completion date, 42 days later than the contractual milestone date of July 18, 2023. Within the L200 contract schedule, the critical path has been revised by logic and sequencing changes related to communications relocations near NE 115th Street, protection slab work over an existing utility nearby, and MSE Wall 2500, placing this work on the program's critical path. These revisions are under review for approval; without their integration, the critical path remains the delivery and placement of girders for the elevated guideway sections, then into the NE 148th Street Station, eventually leading to substantial completion of the contract.

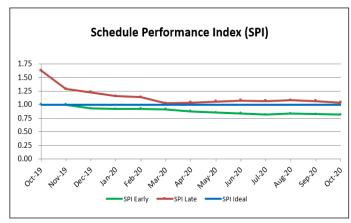
Start	Finish					2021				2022		2023				
25.0			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
25-Dec-18 A	14-Oct-23														_	
25-Dec-18 A	14-Oct-23														-	
20-Mar-20 A	14-Dec-20	Н	_													
15-May-19 A	09-Dec-22	Ħ														
21-Mar-19 A	14-Aug-23	F														
23-Mar-19 A	14-Aug-23	F												-		
26-Mar-19 A	14-Aug-23	F												-		
08-Apr-19 A	07-Aug-23	Ħ												-		
26-Mar-19 A	14-Aug-23	F												-		
17-Jun-19A	21-Sep-22	Ħ									,					
27-Mar-19 A	14-Aug-23	F														
25-Apr-19 A	19-Jan-23	Ħ										•				
15-Apr-19 A	14-Aug-23	Ħ												-		
15-Apr-19 A	02-Jun-23	F											-			
09-Apr-19 A	14-Aug-23	Ħ												-		
12-Jun-19A	02-Nov-20	F	7													
14-Feb-20 A	08-May-20 A															
	25-Dec-18 A 25-Dec-18 A 20-Mar-20 A 15-May-19 A 21-Mar-19 A 23-Mar-19 A 26-Mar-19 A 26-Mar-19 A 17-Jun-19 A 27-Mar-19 A 25-Apr-19 A 15-Apr-19 A 15-Apr-19 A 15-Apr-19 A 15-Apr-19 A 15-Apr-19 A 15-Apr-19 A	25-Deo-18A 14-Oct-23 25-Deo-18A 14-Oct-23 20-Mar-20A 14-Deo-20 15-May-19A 09-Deo-22 21-Mar-19A 14-Aug-23 23-Mar-19A 14-Aug-23 26-Mar-19A 07-Aug-23 26-Mar-19A 14-Aug-23 17-Jun-19A 21-Sep-22 27-Mar-19A 14-Aug-23 15-Apr-19A 19-Jan-23 15-Apr-19A 14-Aug-23 15-Apr-19A 02-Jun-23 09-Apr-19A 02-Jun-23 12-Jun-19A 02-Jun-23 12-Jun-19A 02-Jun-23	25-Deo-18A 14-Oct-23 25-Deo-18A 14-Oct-23 26-Deo-18A 14-Oct-23 20-Mar-20A 14-Deo-20 15-May-19A 09-Deo-22 21-Mar-19A 14-Aug-23 23-Mar-19A 14-Aug-23 26-Mar-19A 07-Aug-23 26-Mar-19A 14-Aug-23 26-Mar-19A 14-Aug-23 26-Mar-19A 14-Aug-23 17-Aur-19A 21-Sep-22 27-Mar-19A 14-Aug-23 15-Apr-19A 14-Aug-23 15-Apr-19A 14-Aug-23 15-Apr-19A 02-Mar-23 15-Apr-19A 02-Mar-23 15-Apr-19A 02-Mar-23 11-Aug-23 11-Aug-2	25-Dec-18A 14-Oct-23 25-Dec-18A 14-Oct-23 25-Dec-18A 14-Oct-23 20-Man-20A 14-Dec-20 15-May-19A 14-Aug-23 23-Man-19A 14-Aug-23 25-Man-19A 14-Aug-23 26-Man-19A 14-Aug-23 26-Man-19A 14-Aug-23 25-Man-19A 14-Aug-23 25-Apr-19A 14-Aug-23 25-Apr-19A 14-Aug-23 25-Apr-19A 14-Aug-23 15-Apr-19A 14-Aug-23 15-Apr-19	25-Dec18A 14-Od-23 25-Dec18A 14-Od-23 26-Dec18A 14-Od-23 20-Mar-20A 14-Dec-20 215-May-19A 09-Dec-22 21-Mar-19A 14-Mug-23 26-Mar-19A 14-	25-Dec-18A 14-0d-23 25-Dec-18A 14-0d-23 20-Mar-20A 14-Dec-20 21-Mar-19A 14-May-23 23-Mar-19A 14-May-23 26-Mar-19A	25-Dec-18A 14-Od-23 25-Dec-18A 14-Od-23 20-Mar-20A 14-Dec-20 15-May-19A 14-Mug-23 23-Mar-19A 14-Mug-23 26-Mar-19A	25-Dec-18A 14-Od-23 25-Dec-18A 14-Od-23 26-Dec-18A 14-Od-23 20-Mar-20A 14-Dec-20 15-May-19A 09-Dec-22 21-Mar-19A 14-Aug-23 23-Mar-19A 14-Aug-23 26-Mar-19A 07-Aug-23 26-Mar-19A 14-Aug-23 26-Mar-19A 14-Aug-23 17-Jun-19A 21-Sep-22 27-Mar-19A 14-Aug-23 15-Apr-19A 14-Aug-23 15-Apr-19A 14-Aug-23 15-Apr-19A 14-Aug-23 15-Apr-19A 02-Jun-23 09-Apr-19A 14-Aug-23 12-Jun-19A 02-Nov-20 12-Jun-19A 02-Jun-19A 02-Ju	25-Dec-18A 14-Od-23 25-Dec-18A 14-Od-23 26-Dec-18A 14-Od-23 20-Mar-20A 14-Dec-20 27 20-Mar-20A 14-Dec-20 27 21-Mar-19A 14-Aug-23 22-Mar-19A 14-Aug-23 26-Mar-19A 14-Aug-23 26-Mar	25-De-18A 14-Od-23 25-De-18A 14-Od-23 25-De-18A 14-Od-23 20-Mar-20A 14-De-20 15-May-19A 09-De-22 21-Mar-19A 14-Aug-23 26-Mar-19A 14-Aug	25-0e-18A 14-0d-23 25-0e-18A 14-0d-23 26-0e-18A 14-0d-23 20-Mar-20A 14-0e-20 27 20-Mar-20A 14-0e-20 27 21-Mar-19A 14-May-23 23-Mar-19A 14-May-23 26-Mar-19A 14-May-23 26-Mar-19A 14-May-23 26-Mar-19A 14-May-23 26-Mar-19A 14-May-23 25-Apr-19A	25-De-18A 14-Ot-23 25-De-18A 14-De-20 25-De-18A 14-De-18A 14-De-1	25-Dec-18A 14-0d-23	25-Dec-18A 14-0d-23	25-De-18A 14-Ot-23 25-De-18A 14-Ot-23 25-De-18A 14-Ot-23 25-De-18A 14-Ot-23 25-De-18A 14-Ot-23 25-De-18A 14-Ot-23 25-De-18A 14-De-20 25-De-18A 14-De-18A 14-De-1	

Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule (early dates). This period, the early SPI is 0.82 (decrease from 0.83 last period).

Late SPI represents progress against a more conservative schedule (late dates). This period, the late SPI is 1.04 (decrease from 1.07 last period).

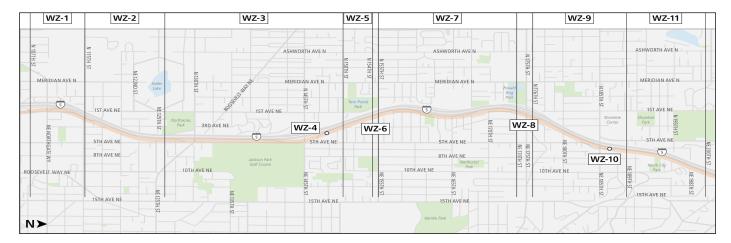
The SPI indicates progress is trending behind the optimistic schedule dates, but well compared to the late dates.



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Work Zone Overview



Next Period Activities:

- WZ-1: Form/rebar/place concrete for span A10.
- WZ-2: Complete slab on grade for N12-TPSS-01, continue wall panel installation.
- WZ-4: Set span C43, C44 tub girder. Begin form/rebar 148th garage south slab.
- WZ-7: Construction camera installation.
- WZ-9: Install temporary shoring for Pier 1 at 185th undercrossing; MSE wall placement.
- WZ-10: Continue 185th garage underground utility installation.

Closely Monitored Issues:

- Monitoring impacts of COVID-19.
- Monitoring timing of receipt of all permits necessary for construction.
- Evaluating cost impact of plan set revision between the main work pricing and Issue for Construction (IFC) sets.
- Erosion and sediment control during the wet season.

Cost Summary

Financial Status	Amount				
L200 Contractor - SKH					
Original Contract Value	\$ 88,147,258				
Change Order Value	\$ 760,307,840				
Current Contract Value	\$ 848,455,098				
Total Actual Cost (Incurred to Date)	\$ 285,143,132				
Percent Complete	32.6%				
Authorized Contingency	\$ 44,052,739				
Contingency Drawdown	\$ 3,456,834				
Contingency Index	4.3				



Noise wall construction along I-5

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Contract L300 GC/CM—NE 200th Street to Lynnwood Transit Center

Current Progress

The L300 Contractor, Skanska, is continuing work on site as follows:

- Continued abutment work at Bridge K, with full closure of 52nd Ave from 208th to 212th Street through mid-December.
- Placed concrete for J02 column and cap.
- Continuation of guideway decking and concrete placement for spans in the station area at Lynnwood City Center.
- Continued platform girders and decking installation at the Mountlake Terrace Station.
- Completed installation of pile caps for L10 off of the trestle constructed to protect Scriber Creek.
- Commenced excavation and formwork for foundations at the Lynnwood City Center Parking Garage.

Schedule Summary

Skanska October update forecasts an early completion of the project with Substantial Completion on 29-Jun-23, 47 days early. The critical path remains the Lynnwood Parking Garage, followed by the installation of the final drainage, utilities, and sitework, at the station site.

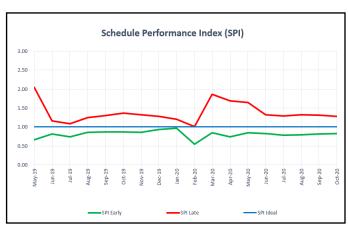
Activity Name	Start	Finish				2021			2	122			2	023
			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	02	Q3
L300 Construction	25-Sep-18A	27-Jul-23												_
L300 Construction	25-Sep-18 A	27-Jul-23												_
MILESTONES	25-Sep-18 A	17-Jul-23												_
ROW ACQUISITIONS (PARCELS & TCE	04-Jun-19 A	22-Feb-22												
PERMITTING	01-Feb-19 A	04-Feb-21												
SUBMITTALS	12 -Apr-1 9A	26-Nov-21												
MATERIAL PROCUREMENT	07-Aug-19A	07-Dec-21												
EARLY WORK	20-Feb-19 A	27-Jul-23												─ ▼
3RD PARTY UTILITIES	22-Jul-19A	14-Oct-20	-											
CONSTRUCTION	25-Oct-19.A	10-Jul-23												•
Main Package Construction Contract Elements	25-Oct-19.A	10-Jul-23												-
Mobilizations	25-Oct-19.A	21-Nov-22									_			
L200 to 238th St. (Sts. 1684+00 to 1738+00)	17-Dec-19 A	21-Nov-22									-			
238th St to 220th St (Sts. 1739+00 to 1791+00)	21-Jan-20 A	30-Jan-23						<u> </u>				-		
220th St. to 52nd Ave (Sta. 1791+00 to 1840+00)	23-Dec-19 A	21-Mar-23										-		
52nd Ave to EOL (8ts. 1840+00 to 1884+00)	15-Jan-20 A	16-Jun-23												

Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.82 (decrease from 0.88 last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 1.28 (decrease from 1.34 of last period).

The SPI trends indicate progress is trending behind the optimistic schedule dates, but work is progressing well compared to the conservative version of the schedule.



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Work Zone Overview



Next Period's Activities

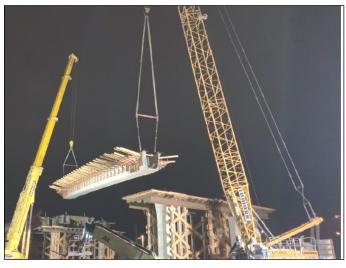
- Continue on the K bridge under full closure of 52nd Ave from 208th to 212th Street.
- Continue guideway decking in station area at Lynnwood City Center.
- Full weekend night time closures, setting tunnel girders and decking over I-5.
- Begin drilled shafts at L11 and L12 off the trestle constructed to protect Scriber Creek.

Closely Monitored Issues

- Monitoring work-site safety and enhancing the culture.
- Monitoring impacts of COVID-19.
- Evaluating cost impact of plan set revision between the early work pricing and Issue for Construction (IFC) sets.
- Quality control and assurance of work performed.
- Erosion and sediment control during the wet season.

Cost Summary

Present Financial Status	Amount					
L300 Contractor—Skanska						
Original Contract Value	\$ 56,886,631					
Change Order Value	\$ 786,490,247					
Current Contract Value	\$ 843,376,878					
Total Actual Cost (Incurred to Date)	\$ 239,469,993					
Percent Complete	30.3%					
Authorized Contingency	\$ 42,888,048					
Contingency Drawdown	\$ 8,399,892					
Contingency Index	1.5					



Setting tub girder at Work Area 16 at Lynnwood City Center.

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Link Light Rail NE 130th St Infill Station



Project Summary

Scope Construct an elevated, side-platform infill

light rail station at NE 130th Street and 5th

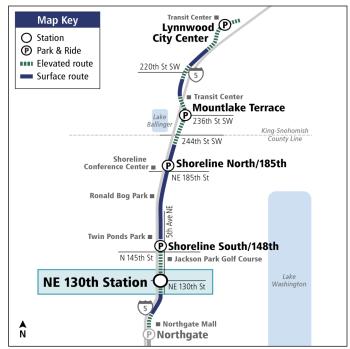
Ave in Seattle.

Phase Final Design / Early Construction

Budget \$28.9 Million

Schedule Open for Service date will depend on

Board direction from realignment process.



Map of Project Alignment

Key Project Activities

- Board approved progressively advancing final design of the NE 130th St. Infill station in Feb. 2020 with limited funding.
- Advanced to Final Design phase in June 2020 following completion of Preliminary Engineering work.
- Southernmost columns form stripped and falsework being erected.
- Continued formwork for guideway columns.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures in both tables are shown in millions. In September 2020, \$0.9M was incurred. The major project expenditures were for civil construction, civil CM, and design.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$3.6	\$1.1	\$1.1	\$3.6	\$0.0
Preliminary Engineering	\$2.7	\$2.7	\$2.7	\$2.7	\$0.0
Final Design	\$10.8	\$7.1	\$1.5	\$10.8	\$0.0
Construction Services	\$2.1	\$0.8	\$0.3	\$2.1	\$0.0
3rd Party Agreements	\$1.0	\$0.2	\$0.1	\$0.9	\$0.0
Construction	\$8.5	\$5.4	\$1.6	\$8.5	\$0.0
ROW	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Project Contingency	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$28.9	\$17.3	\$7.3	\$28.9	\$0.0

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Link Light Rail NE 130th St Infill Station

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The following are the top project risks:

- Alignment of the station construction schedule with the LLE construction schedule.
- City of Seattle may require additional right-of-way improvements that require additional time to incorporate.
- City of Seattle may require additional station features that require additional time to incorporate.
- Seattle City Light may need to construct additional upgrades to the power infrastructure to supply the station.

Project Schedule

Design for the Station remains on schedule for delivery of the 100% designs. Permitting activities for the Building and Street Improvement (SIP) permits continue to be refined and have been expanded. No significant changes occurred in this period.

Construction of the initial construction package for columns & girders is ongoing. The next major milestone is the ST Board decision to continue early advancement of the project. This is currently projected to occur in Q3 2021.

ictivity Name	Start	Finish			2020				2021		2022
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
NE 130th Street Static	04-Feb-19 A	06-Jan-22									T
NE 130th Street Station	04-Feb-19 A	06-Jan-22									•
Preliminary Design	04-Feb-19 A	14-Nov-19 A									
Project Milestones	04-Feb-19 A	27-Sep-19 A									
Project Mgmt	04-Feb-19 A	25-Oct-19 A									
Prelim. Design	04-Feb-19 A	14-Nov-19 A									
Final Design	30-Sep-19 A	17-Sep-21							•		T
Civil FD	30-Sep-19 A	08-Sep-21									
Systems Final Design	30-Mar-20 A	17-Sep-21		-					•		T
Permitting	16-Mar-20 A	06-Jan-22	-								_
Seattle Design Commission	16-Mar-20 A	06-Apr-21	9 =					_			
Development Permits	28-Sep-20 A	06-Jan-22				•					7
WSDOT Permits	20-Apr-20 A	16-Nov-20		-							
Estimating/Negotiations/Ar	23-Dec-19 A	09-Sep-21							•		
Estimating & Negotiations	23-Dec-19 A	09-Sep-21							•		T
Estimate & Negotiations - Guideway	23-Dec-19 A	27-Mar-20 A									
Contract Amendment - Guideway	30-Mar-20 A	28-May-20 A									
Estimate & Negotiations - Station PI	23-Jun-21	09-Sep-21						,			
Estimate & Negotiations - Station Fi	22-Jun-21	08-Sep-21						-	-		

Community Outreach

- Launched online open house for NE 130th Infill Station.
- Contacted six community based organizations for folio and email distribution.
- Attended and presented at King County service partners meeting.

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Link Light Rail NE 130th St Infill Station



Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The YTD Actual FTE Monthly Average through the end of October is slightly above the Planned FTE Monthly Average, with more ST staff than originally planned.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance				
ST Staff	1.0	3.0	2.0				
Consultants	10.0	10.0	0.0				
TOTAL	11.0	13.0	2.0				

^{*} An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	



Column form stripping

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Link Light Rail NE 130th St Infill Station

Civil Final Design Overview

Sound Transit executed an amendment with HNTB Jacobs to perform civil final design for NE 130th station in the Lynnwood Link corridor to investigate the possibility of integrating the 130th St Infill Station into Lynnwood Link. Design services include preparation of comprehensive civil contract documents for construction, design coordination and cooperation with the GC/CM contractors, permit support, survey, geotechnical investigations, right-of-way planning and acquisition support, third party coordination support, risk assessment support, value engineering and constructability support, building and station systems design, and sustainability reports.

Systems Final Design Overview

Sound Transit executed an amendment with LTK Engineering to perform systems final design for NE 130th station in the Lynnwood Link corridor to investigate the possibility of integrating the 130th St Infill Station into Lynnwood Link. Design services include preparation of comprehensive contract documents for construction, design coordination and cooperation with the civil final designer, permit support, third party coordination support, risk assessment support, value engineering and constructability support, schedules and cost estimating.

Present Financial Status	Amount						
HNTB Jacobs- Civil Final Design							
Original Contract Value	\$1,570,864						
Change Order Value	\$4,377,595						
Current Contract Value	\$5,948,459						
Total Actual Cost (Incurred to Date)	\$1,545,260						
Financial Percent Complete	26%						
Authorized Contingency	\$596,337						
Contingency Drawdown	\$0						
Contingency Index	0.0						

Present Financial Status	Amount						
LTK- Systems Final Design							
Original Contract Value	\$299,332						
Change Order Value	\$823,076						
Current Contract Value	\$1,122,408						
Total Actual Cost (Incurred to Date)	\$0						
Financial Percent Complete	0%						
Authorized Contingency	\$110,310						
Contingency Drawdown	\$0						
Contingency Index	0.0						

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Link Light Rail I-90 Two-Way Transit & HOV Operations (Stage 3)



Project Summary

Scope

The I-90 Two-Way Transit and HOV Operations (Stage 3) project provides approximately four miles of HOV lanes in each direction of the outer roadway between 80th Avenue South on Mercer Island and Rainier Avenue in Seattle. The project includes upgrades and retrofits to the fire, life, safety, and other systems in the Mount Baker and Mercer Island/First Hill tunnels. The project also includes remaining dowel bar retrofit work on the west side of Lake Washington, and the installation of screening on the shared—use pathway on the I-90 floating bridge.



Since June 2017, the project has provided 24/7 HOV access on I-90 between Seattle. Mercer Island and Bellevue.

Phase Construction Budget \$225.6 Million

Schedule

Construction Complete: December 2020 for Primary work; Q2 2021 for all remaining ancillary construction

Major Contracts

	Scope	Agreement/Contract Amount
WSDOT	PE	\$ 1,549,003
WSDOT	Final Design	\$ 22,120,999
WSDOT	CM Services	\$ 43,192,664
IMCO	Construction	\$132,409,000
City of Mercer Island	Transportation Mitigation	\$10,050,000

Key Project Activities/Milestones

- Civil Construction Ancillary construction: I-90 Catch Basin Lid & Frame Replacement: Substantial Completion granted 21-Aug-19; MBT Hydrant Cover Safety Restriping Substantial Completion granted 5-Jun-20
- Physical Completion, IMCO Contract Notification to be issued by WSDOT (pending)
- Third Party Oversight (City of Mercer Island) Ongoing obligation through December 2025

Closely Monitored Issues

WSDOT executed a clear-all settlement change order with their contractor in May for the major construction contract work; Substantial Completion for that work was retroactively granted June 2017. All ancillary WSDOT construction work is substantially complete; the following items continue to be monitored at this time:

- Final payment to WSDOT for all task order construction obligations
- City of Mercer Island litigation, Mercer Island Transportation Mitigation Agreement

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Link Light Rail I-90 Two-Way Transit & HOV Operations (Stage 3)

Project Cost Summary

The following tables summarize the cost information for the I-90 Two-Way Transit and HOV Operations (Stage 3) project. Expenditures for the month of October were \$981.8K. Tables below are in millions.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitme nt to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$3.6	\$3.6	\$2.4	\$2.4	\$3.6	\$0.0
Preliminary Engineering	\$1.5	\$1.5	\$1.5	\$1.5	\$1.5	\$0.0
Final Design	\$22.1	\$22.1	\$18.7	\$18.4	\$22.1	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction	\$198.3	\$198.3	\$187.0	\$177.2	\$198.3	\$0.0
Total	\$225.6	\$225.6	\$209.6	\$199.6	\$225.6	\$0.0

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project Allocation	Commitme nt to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
40 Sitework & Special Conditions	\$180.6	\$190.7	\$187.0	\$177.2	\$190.7	\$0.0
80 Professional Services	\$26.3	\$26.3	\$22.7	\$22.4	\$26.3	\$0.0
90 Unallocated Contingency	\$18.7	\$8.7	\$0.0	\$0.0	\$8.7	\$0.0
Total	\$225.6	\$225.6	\$209.6	\$199.6	\$225.6	\$0.0

Tables in millions; totals may not equal column sums due to rounding of line entries.

Cost Contingency Management

In the table below, the Allocated Contingency includes WSDOT-controlled construction contingency and total ST controlled allocated contingencies. Payment to WSDOT and the City of Mercer Island for administrative, ancillary construction, and coordination costs resulted in a reduction to the remaining Project budget; as a result, the percent of overall Current Contingency, when compared to the Remaining Work Budgeted, was reduced by 0.2% from September's percentage.

Contingency Status	Baseline Amount	Baseline % of Total	Current Amount	CTG as % of Remaining Work Budgeted
Design Allowance	\$0.0	0.0%	\$0.0	0.0%
Committed Allocated Contingency	\$17.0	7.5%	\$1.1	4.4%
Unallocated Contingency	\$18.7	8.3%	\$8.7	33.2%
Total	\$35.7	15.8%	\$9.8	37.6%

Note: Totals may not equal column sums due to rounding of line entries.

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Link Light Rail East Link Extension



Project Summary

Scope

Limits Fourteen-mile extension from Downtown

Seattle to Mercer Island, Bellevue and the

Overlake area of Redmond.

Alignment East Link Extension expands light rail to

East King County via I-90 from Downtown Seattle to the Overlake Transit Cen-

ter area of Redmond.

Stations Judkins Park, Mercer Island, South Belle-

vue, East Main, Bellevue Downtown, Wilburton, Spring District/120th, Bel-Red/130th, Overlake Village (OVS) and

Redmond Technology (RTS).

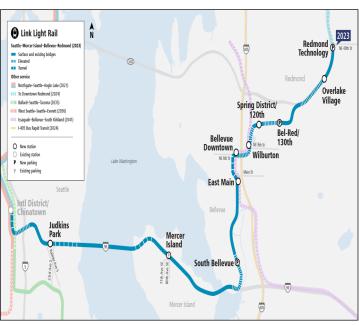
Systems Signals, traction electrification, and com-

munications (SCADA).

Phase Construction

Budget \$3.677 Billion (Baseline April 2015)

Schedule Revenue Service: June 2023



Map of East Link Extension Alignment.

Key Project Activities

- Floating Bridge Retrofit (E130): Advance final alignment of track attachments; continued polyurea application, transition plinth installations at approaches; progress commissioning activities; TPSS #3 delivered, installed by E750 contractor.
- Mercer Island (E130): Ongoing finish work, fire protection commissioning at Mercer Island Station; progress installation of stray current collector cable in Mercer Island Tunnel & East Channel Bridge.
- IDS to Mt. Baker Tunnel (E130): Progress installation of curbs, vehicle crossings, operator walkway in IDS; continue commissioning of Fire/Life Safety systems in Mt Baker Tunnel; TPSS #1 delivered, installed by E750 contractor.
- **Downtown Bellevue Tunnel (E330)**: Substantially Completed. Continued punch list and close out activities.
- **Downtown Bellevue to Spring District (E335)**: Completed tunnel track work; continued installation of East Main and 120th St Station plinths, cable wire pulling for branch systems and platform Tile installation at Wilburton Station.
- **Bel-Red (E340)**: Installed emergency walkway and guideway storm drainage on aerial guideway area. Installed entry canopy soffit panels, continued site grading at the station. Installed permanent signing and irrigation on NE Spring Blvd.
- SR520 to Redmond Technology Station (E360): Work commenced on latest Sweeper Site design. Overlake Village Station (OVS) roundabout asphalt placement complete. OVS Pedestrian Bridge architectural soffit panels installation. Redmond Technology Station decorative paving and landscaping ongoing.
- Systems (E750): Continued with submittals, component design/manufacturing/fabrication. Continued installation of
 communication and signaling equipment, and OCS pole procurement and installations. TPSS delivered to location and
 installed.

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Closely Monitored Issues

- Resolution to Redmond Technology Station Garage's structural repairs.
- Design change during construction phase particularly at our most technically challenging stations.
- Quality, construction safety and environment compliances.
- Civil segments continue to trend schedule delay in handing over access to follow on Systems contractor.
- COVID-19 pandemic remains fluid and challenging at all levels of project activities.

Project Cost Summary

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

The Estimated Final Cost (EFC) remains the same at approximately \$3.68B. This period's expenditure is a little over \$47.9M, increasing the total expenditure to date from \$2.68B to \$2.72B. Project commitment is approximately \$3.1B with all major construction contracts in place. While this period's expenditures shows recovery from post work suspension, there are still needs to be cautionary on the projection. Impacts from COVID-19 continue to be assessed as well as ongoing monitoring due to the fluid situation of the pandemic.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$186.2	\$186.2	\$101.6	\$100.1	\$186.2	\$0.0
Preliminary Engineering	\$55.9	\$55.9	\$54.8	\$54.8	\$55.9	\$0.0
Final Design	\$283.0	\$283.0	\$248.1	\$232.1	\$283.0	\$0.0
Construction Services	\$257.5	\$257.5	\$196.7	\$151.7	\$257.5	\$0.0
3rd Party Agreements	\$52.2	\$52.2	\$38.3	\$31.7	\$52.2	\$0.0
Construction	\$2,544.3	\$2,544.3	\$2,218.0	\$1,877.5	\$2,544.3	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$298.2	\$298.2	\$276.6	\$275.5	\$298.2	\$0.0
Total	\$3,677.2	\$3,677.2	\$3,134.1	\$2,723.2	\$3,677.1	\$0.0

Cost Summary by SCC

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SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$744.6	\$949.7	\$902.3	\$852.6	\$954.7	(\$210.1)
20 Stations	\$397.7	\$474.2	\$447.1	\$372.6	\$468.6	(\$70.9)
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$808.5	\$574.9	\$494.2	\$443.7	\$567.3	\$241.2
50 Systems	\$353.8	\$367.9	\$349.5	\$187.2	\$369.0	(\$15.2)
Construction Subtotal (10 - 50)	\$2,304.6	\$2,366.7	\$2,193.2	\$1,856.1	\$2,359.6	(\$55.0)
60 Row, Land	\$288.5	\$288.5	\$276.6	\$275.5	\$288.5	(\$0.0)
70 Vehicles (non-revenue)	\$2.8	\$2.8	\$0.0	\$0.0	\$2.8	\$0.0
80 Professional Services	\$898.4	\$889.1	\$664.4	\$591.7	\$889.5	\$8.9
90 Unallocated Contingency	\$182.9	\$130.0	\$0.0	\$0.0	\$136.6	\$46.2
Total (10 - 90)	\$3,677.2	\$3,677.2	\$3,134.1	\$2,723.2	\$3,677.1	(\$0.0)

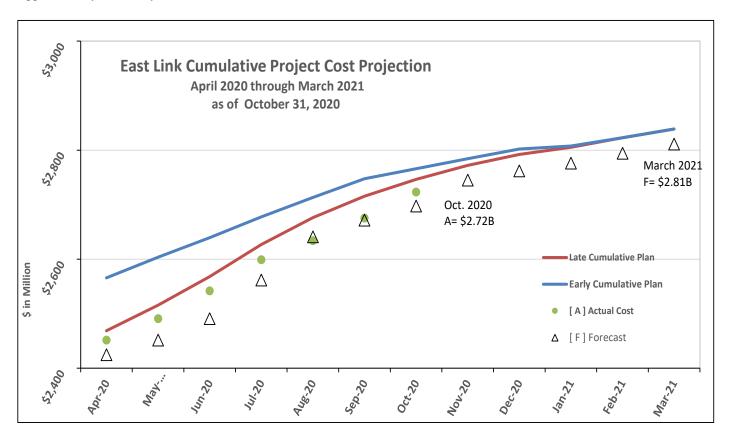
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Link Light Rail East Link Extension



Project Cash Flow Projection

The East Link cost projection continues to progress within the planned expenditure as construction activities continue to pickup. This period's project to date expenditure topped out at approximately \$47.9M where Construction Phase is responsible for about 85.6% or approximately \$41M of October's expenditure. Total project cost incurred to date topped \$2.72B, to which about \$1.9B were recorded in the Construction Phase. The project expenditures continue to pick up and is predicted to rise to approximately \$2.81B by March 2021.



Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility for continuously monitoring project status and associated risks.

The Risk Mitigation Milestone #4 (Completion of SEM Tunneling) completed in 2018/19 predicted that given the risk profile in the project, there are sufficient schedule and budget in the project to complete in accordance to baseline. The next risk mitigation milestone is in 2021 but an interim risk "milestone" has been added for 2020. The Quantitative Risk Assessment workshop for the interim milestone took place on the week of October 12th. The QRA Report is currently being finalized. Q2 risk register updates is completed. Q3 register is wrapped up with the QRA workshop. The following are the top project risk and risk areas:

- Compliance with quality, safety and environmental requirements
- Civil turnovers to Systems construction
- Interfaces between contracts, agency supplied equipment and third party jurisdictions
- COVID-19 pandemic impacts
- Resolution to Redmond Technology Station Garage's structural elements repairs

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Contingency Management

East Link project budget was baselined on April 2015 with a total contingency of \$795.9M. All major construction contracts have been procured and the total contingency balance stands at \$336.3M (previously \$341.7M). The current contingency balance is consistent with the project's planned contingency drawdown.

Design Allowance (DA) was established to account for unquantified scope at the time of the cost estimate. DA remains unchanged in this period at \$2.7M and is expected to be fully drawn when all construction scope are executed.

Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period, AC was drawn down for an aggregate of approximately \$5.4M due to predominantly construction and construction services changes.

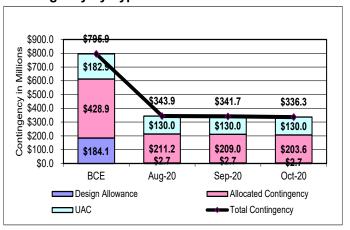
Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties. The UAC balance remains at \$130.0M.

Contingency Status

Contingonov	Bas	eline	Current Status			
Contingency Type	Amount	% of Total Budget	Amount Remaining	% of Work Remaining		
Design Allowance	\$184.1	5.0%	\$2.7	0.3%		
Allocated Contingency	\$428.9	11.7%	\$203.6	21.3%		
Unallocated Contingency	\$182.9	5.0%	\$130.0	13.6%		
Total	\$795.9	21.6%	\$336.3	35.3%		

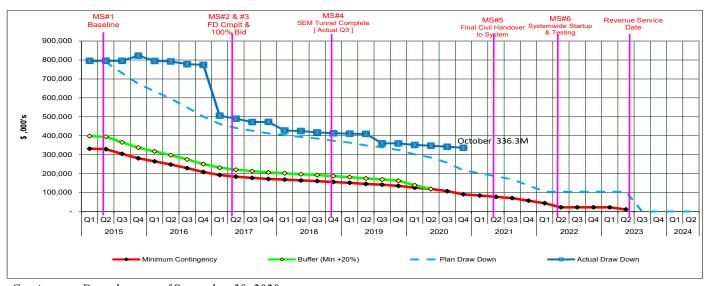
Table figures are shown in millions.

Contingency by Type



Contingency Drawdown

East Link Project's total contingency drawdown continues to trend within plan with an overall contingency balance at proximately \$336.3M (previously \$341.7M) and with all major construction contracts procured, remains above the baseline draw down projection and well above both the minimum contingency and the buffered (minimum plus 20%) contingency levels. The contingencies at the end of September represented the monthly draw of about \$2.2M due to various construction change orders.



Contingency Drawdown as of September 30, 2020

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Link Light Rail East Link Extension



Project Schedule

The Integrated Master Schedule is presented below.

E130 continued Fire/Life Safety commissioning in Mt. Baker tunnel; finish work at Judkins Park Station; commissioning of both stations; continued final alignment of track attachments and plinth installation at approaches.

E320 continued installing acoustical panels along guideway; finish work at the station and parking garage; rail welding and ballast work along 112th.

E330 continued working toward final acceptance and contract closeout.

E335 continued storm drain, irrigation, and platform work at E. Main Station; completed surface-level concrete topping slab at Bellevue Downtown Station; finish work at 120th station; continued plinth construction in the tunnel.

E340 commenced installation of plinths on the aerial guideway; continued canopy work at the station; irrigation, light fixtures, and railing along Spring Blvd.

E360 continued landscaping along the guideway; plaza work at OVS; continued RTS garage crack repair; completed soffit panels at OVS pedestrian bridge and installed paperclip ramp handrails and lighting.

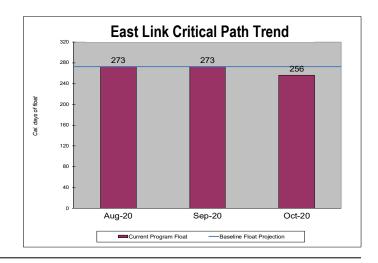
E750 continued installation of communications racks and equipment at MIS, OVS, and RTS; installed TPSS #3; set OCS poles along E130 and E360 civil segments; long-lead procurement continues.

Work is forecast to complete in time to perform pre-revenue simulation as planned and open for Revenue Service by June 2023.

Activity Name	Start	Finish												
			22 1		04 1	2021	02 04	1		022	T 04	04	20	
Sound Transit	08-Jul-08 A	30-Jun-23	Q3 (24	Q1 (Q2	Q3 Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
South Hallsit	00 001 0071													
Sound Transit 2	08-Jul-08 A	30-Jun-23											,	,
East Corridor	08-Jul-08 A	30-Jun-23											•	,
LRT Extension - East	08-Jul-08 A	30-Jun-23	_					+					_	,
East Link	08-Jul-08 A	30-Jun-23	_										_	,
East Link Construction	08-Jul-08 A	30-Jun-23											-	,
EL 130 - Seattle to I-90 Overpass (GC/CM)	10-Mar-17 A	28-Sep-21					_							
EL 320 - I-90 Overpass to S. Bellevue (DBB)	05-Dec-16 A	11-Mar-21			_									
EL 330 - Downtown Bellevue Tunnel (DBB)	18-Jan-15 A	12-Oct-20	—											
EL 335 - Downtown Bellevue to Spring District (GC/CM)	24-Apr-17 A	10-Jun-21				_								
EL 340 - Spring District to SR 520 (DBB)	24-Feb-17 A	04-Jan-21			7			1						
EL 360 - SR 520 to Overlake Transit Center (DB)	13-Jul-16 A	26-Mar-21			_									
EL 750 - Systems	08-Jul-08 A	28-Jul-22						+		-				
East Link Master Schedule - Construction Interfaces	14-Jun-17 A	17-Jul-22								—				
ELRACT - East Link Rail Activation/System Integration/Project Closeout	30-Sep-21	30-Jun-23					_						_	7
East Link Rail Activation/System Integration/Project Closecut	30-Sep-21	30-Jun-23					_	1					,	,
Pre-Revenue Testing & Start Up	30-Sep-21	17-Oct-22					_				-			
East Link System Integration Testing (LOE Summary)	30-Sep-21	15-Jul-22												
East Link Pre Revenue Operations (3 Mo)	17-Jul-22	17-Oct-22												
Revenue Service Window	17-Oct-22	30-Jun-23									<u> </u>			<u> </u>
East Link Program Float - 9 Months	17-Oct-22	30-Jun-23												
East Link Revenue Service Date (Baseline 30-Jun-23)		30-Jun-23*											•	•

Project Float

East Link was baselined with 273 days of program float. The current projected use of 17 days of float is a result of cumulative impacts from all contracts throughout 2020. No change has been issued to formally allocate float on the project; this is merely a forecast based on current performance trends.

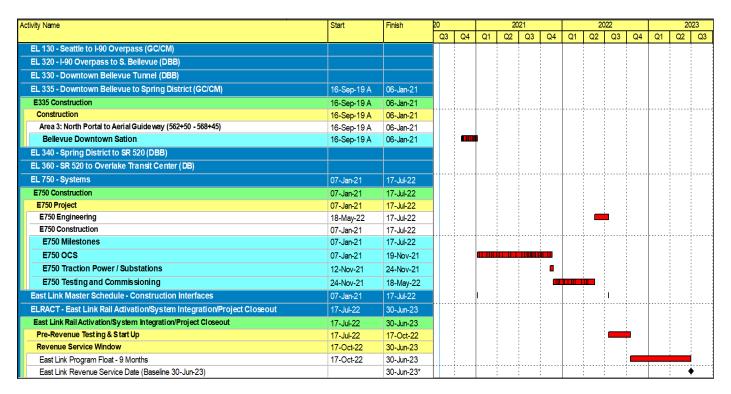


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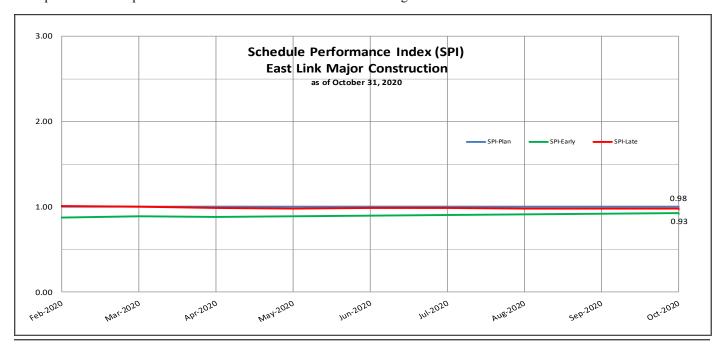
Critical Path Analysis

The East Link critical path is currently driven by the E335 handover of Bellevue Downtown Station, followed by E750 OCS and signal work. East Link civil contracts continue to be closely monitored for potential impacts to the E750 schedule.



Schedule Performance Index

The early Schedule Performance Index (SPI) for East Link's Major Construction Packages is up to 0.93 for this period, which indicates continued steady performance. The late SPI remains at 0.98 as contractors continue to respond to COVID-related disruptions and attempt to finalize work areas for handover to interfacing contracts.



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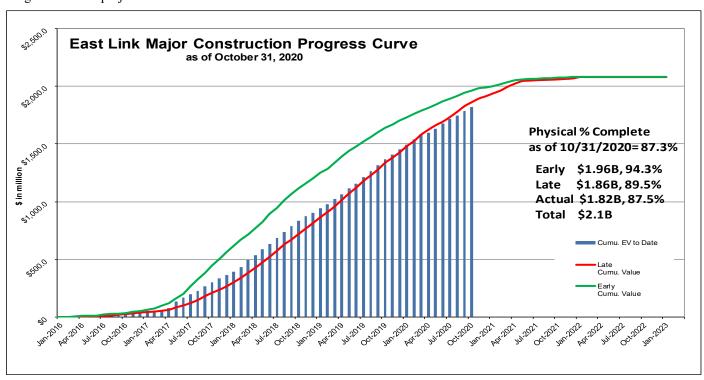
Link Light Rail East Link Extension



Project Cash Flow Projection

The overall physical percent complete for East Link construction is 87.3%.

The percent complete analysis is based on a weighted measurement among the seven major construction contracts' schedule, duration and cost. The graph below shows the aggregate cost progression for these construction contracts. Performance remains slightly below the late projection as COVID-related disruptions have continued to impact production. Although progress is likely to continue to trend below the late curve, performance is steady and the project is still anticipated to finish within the original baseline projection.





E320 Downtown Bellevue to Spring District: Bird's eye view of Downtown Bellevue Station

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Community Outreach

- Ongoing distribution of weekly construction alerts for maintenance of traffic activities for Mercer Island, Bellevue and Redmond. While maintaining proper social distancing, communicated with numerous neighbors about upcoming major traffic changes, including full closures. October's focus: Virtual community meeting with Mercer Island, notification of nighttime activities near Judkins Park Station, partial closure of Sweylocken Boat Launch, various road paving and site restoration work, and coordination of Traction Power Substation deliveries.
- Ongoing engagement with individual property owners, members of the public and impacted neighbors on a variety of
 concerns including property acquisition, construction easements, night time noise, traffic, access, maintenance of traffic.

Right-of-Way

The East Link Extension involves the acquisition of a range of property interests including fee acquisitions for stations, guideway, staging areas, support facilities, and tunnel and guideway easements as well as permanent and temporary easements for construction. These acquisitions resulted in owner and tenant residential and commercial relocations. Property acquisition and relocations are mostly complete, with limited processing of relocation claims and coordination of property transfers with the City of Bellevue remaining. The right-of-way program status for this period is summarized in the following table:

East Link Extension Acquisition Status							
ACQUISITION RELOCATION							
Total Acquisitions	Board Approved	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date		
239	246	239	237	229	227		

All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of reporting periods.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average is the monthly annualized average of 12 months; whereas the YTD monthly average only reflects actuals through October of 2020. Consultants utilization, currently, are dependent on the efforts to manage construction. The monthly average is trending over the plan and is predicted to stay over but it is not indicative of budget overage. That said, with COVID-19 remaining a fluid situation, it is hard to predict how the annual plan will unfold accordingly.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	57.5	53.5	(4.0)
Consultants	106.8	170.1	63.4
TOTAL	164.3	223.6	59.3
	_		

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

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Link Light Rail East Link Extension



Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

Construction Safety

Data/ Measure	October 2020	Year to Date	Project to Date		
Recordable Injury/Illness Cases	1	12	84		
Days Away From Work Cases	0	1	15		
Total Days Away From Work	0	248	1,337		
First Aid Cases	7	49	266		
Reported Near Mishaps	1	27	273		
Average Number of Employees on Worksite	884	-	-		
Total # of Hours (GC & Subs)	145,168	1,552,947	6,317,162		
OSHA Incident Rates	Month	Year to Date	Project to Date		
Recordable Injury Rate	1.38	1.55	2.66		
LTI Rate	0.00	0.13	0.47		
Recordable National Average		3.00			
LTI National Average	1.20				
Recordable WA State Average	6.00				
LTI WA State Average	1.90				

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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Link Light Rail East Link Extension



Major Construction Contract Packages

Below are the major construction contract packages for the project with a brief scope description of each.

R8A Stage 3A – Modification of HOV Ramp between I-90 and Bellevue Way SE. [Design-bid-build].

Status: Completed and Closed.

E130 Seattle to South Bellevue – International District Station (IDS) modification, Retrofit of existing WSDOT structures, I-90 Center Roadway and two light rail stations. [Heavy Civil GC/CM]

Status: See following pages under Contract E130.

E320 South Bellevue – One light rail station and a parking garage at South Bellevue P&R; aerial, at-grade and retained-cut guideway along Bellevue Way SE and 112th Avenue SE. [Design-bid-build]

Status: See following pages under Contract E320.

E330 Downtown Bellevue Tunnel – SEM Tunneling along 110th Ave. NE in Downtown Bellevue. [Design-bid-build]

Status: See following pages under Contract E330.

E335 Downtown Bellevue to Spring District – Four light rail stations; aerial, at-grade and retained-cut guideway from Downtown Bellevue, over I-405 to 124th Ave. NE. [Heavy Civil GC/CM]

Status: See following pages under Contract E335.

E340 Bel-Red – One light rail station, aerial and at-grade guideway from 124th Ave. NE to NE 20th. [Design-bid-build]

Status: See following pages under Contract E340.

E360 SR520 to Redmond Technology Station – Two light rail stations; aerial and retained-cut guideway along SR-520 in the Overlake area of Bellevue and Redmond. [Design-Build]

Status: See following pages under Contract E360.

E750 Systems – Light rail systems elements, including Traction Power Electrification, Overhead Catenary System, Train Signals and Communication System. Combined with Northgate Link N830. [Heavy Civil GC/CM]

Status: See following pages under Contract E750



E320 South Bellevue: Functional art — installation of acoustic panels on the elevated guideways.

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Contract E130 - Seattle to South Bellevue Heavy Civil GC/CM

Current Progress

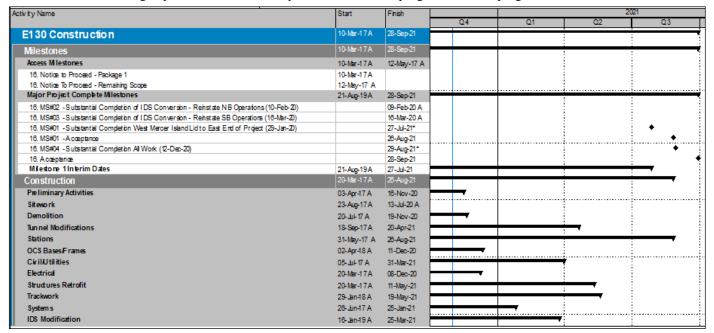
West Segment: Progress installation of curbs, vehicle crossings, operator walkway in IDS; continue commissioning of Fire/Life Safety systems in Mt Baker Tunnel; advance utility installations, interior/exterior finishes, and commissioning at Judkins Park Station; ongoing track installation, D2 roadway; TPSS #1 delivered, installed by E750 contractor

Center Segment: Advance final alignment of dual block track attachments; continue polyurea application, transition plinth installations at approaches; progress commissioning activities; TPSS #3 delivered, installed by E750 contractor

East Segment: Ongoing finish work, fire protection commissioning at Mercer Island Station; progress installation of stray current collector cable in Mercer Island Tunnel & East Channel Bridge

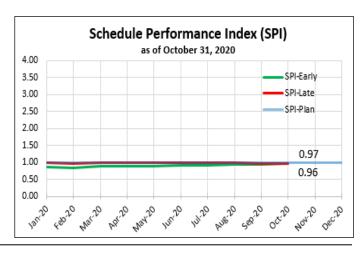
Schedule Summary

The critical path for this project currently runs through jet fan performance testing, which is dependent on work to be performed by the E750 contractor. The contractor's October update is presented below. Although many work paths extend into mid-2021, the contractor is working to preserve E750's January access to maintain program schedule progress.



Schedule Performance Index

Through October, cumulative SPI-Early is reported at 0.96, with SPI-Late at 0.97. This indicates the contractor remains primarily on schedule with their late start/finish performance, while still slightly behind schedule with their early start/finish performance. Delay impacts submitted by the Contractor continue to be evaluated; a plan to realign several lagging activities with Milestone 4 has been completed, and upcoming negotiations with KH are planned. Contract interface coordination with the E750 contractor is ongoing.



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Link Light Rail East Link Extension



Next Period's Activities

- West Segment: Progress OCS foundations, EGR installation at IDS; fire/life/safety system installation & commissioning, MBT; advance interior/exterior finishes, continue JPS commissioning activities
- Center Segment: Continue application of polyurea to concrete blocks on floating bridge; initiate wax tape removal/replacement on dual block attachments
- East Segment: Ongoing stray current cable collector installation; progress commissioning activities at Mercer Island Station; advance sliding rail expansion joints, east approach structure

Closely Monitored Issues

- Activity progress to reach Milestones 1 & 4 and resultant potential impacts to E750
- COVID-19 impacts
- Requirement for shielding non-conductive wires for the cathodic protection on floating bridge
- Wax-Tape Removal from Nylon Inserts on floating bridge
- IDS rail grinding

E130 Construction Segments



Cost Summary

Present Financial Status	Amount*			
E130 Contractor - Kiewit-Hoffman				
Original Contract Value (incl. Phase 2 MACC)	\$665,000,000			
Change Order Value	\$33,107,689			
Current Contract Value*	\$697,152,689			
Total Actual Cost (Incurred to Date)	\$632,761,050			
Percent Complete	89.55%			
Authorized Contingency	\$46,660,541			
Contingency Drawdown	\$33,107,689			
Contingency Index	1.3			

^{*} Contract Value excludes Betterments



Perforated panel installation, Mercer Island Station west head house platform

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Contract E320 - South Bellevue

Current Progress

I-90 Flyover: Continued installation of acoustic panels along guideway and decorative metal mesh fence. Performed electrical work in the traction power substation (TPSS) service cabinet.

Bellevue Way SE: Continued buildout of Winters House parking and systems exposed raceway work, continued barrier safety rail work in trench and work to restore blueberry farm access.

S. Bellevue Sta./P&R: Continued garage and station finishes such as electrical, striping and artwork in the garage and ceiling tile, conveyance and other tile and canopy work at the station.

Wye-to-East Main and Track Work: Continued civil sidewalk and paving overlay work, as well as installation of lighting fixtures on poles and energization; Distributed rail and continued thermite weld and ballast work.

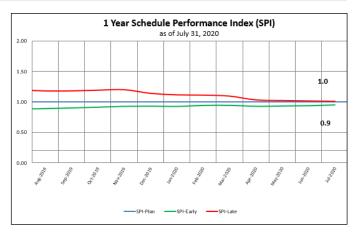
Schedule Summary

The critical path for this project currently runs through sidewalk paving along 112th and then final landscaping. The contractor's October update is presented below. The contractor is currently forecast to provide station and guideway access to the E750 systems contractor ahead of substantial completion, in time to meet the overall program schedule.

Activity Name	Start	Finish		
			Q4	Q1
E320 Construction	05-Dec-16 A	10-Mar-21		
Milestones and Summary	05-Dec-16A	10-Mar-21		-
Contract Milestones	05-Dec-16A	10-Mar-21		
Limited Notice to Proceed	05-Dec-16A			
Notice to Proceed	13-Feb-17A			
Milestone 3A - Clear & Grub Sweyolocken (Start of "Wetland Fil" Work+365D)		21-Dec-18 A		
Milestone 1 - (Alternate) Phase B2.1 Not Used		31-May-19 A		
Milestone 3B - Clear & Grub Coal Creek		22-Nov-19A		
Milestone 4 - SIDT & SCADA Complete (NTP+1160D)		27-Feb-20 A		
Milestone 2 - Final Restoration of Bellevue Way (Start+897D)		11-Sep-20 A		
Milestone 5 - Acceptance of South Bellevue Station (NTP+1225D)		29-Oct-20 A	•	
Milestone 6 - Required Substantial Completion (NTP+1364D)		10-Mar-21*		*
Construction-1	21-Apr-17 A	19-Feb-21		
Mobilization	21-Apr-17 A	16-Jul-18 A		
Area A - I-90 Mainline to Bellevue Interchange - Sta EB405+54 to EB438+20	16-Jun-17A	26-Jan-21		
Area B - Bellevue Way SE, SE 30th St to 112th Ave SE Wye - Sta ⊞438+20 to ⊞476+75	30-May-17 A	11-Feb-21		
Area C - 112th Ave SE, 112th Ave SE Wye to SE 8th - Sta EB476+75 to EB508+00	13-Jun-17A	22-Jan-21		-
Area D - 112th Ave SE to SE 8th St to Main St - Sta 508+00 to EB528+25	22-May-17 A	19-Feb-21		
Area E - Coal Creek Stream Enhancement	09-Jul-18A	22-Nov-19A		
Area F - Sweyolocken Mitigation	23-Apr-18 A	21-Dec-18A		

Schedule Performance Index

The SPI early is at 0.90 for July and the SPI late at 1.00 (there has been no update since July). The contractor continues to remain ahead of their late finish plan and are slightly behind their early plan. There has been a station delay due to System Interface Data Table changes ST implemented. Critical path remains the work on 112th, with ballasted track install, weld and de-stress and eastbound track wall work.



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Link Light Rail East Link Extension



Next Period's Activities

- **I-90 Flyover**: Install acoustic panels along guideway, electrical and landscape work.
- Bellevue Way SE: Continue buildout of Winters House parking, restore Blueberry Farm access and perform civil restoration.
- S. Bellevue Sta./P&R: Ongoing garage finish work and continue station work including commissioning in station.
- Wye-to-East Main and Track Work: Progress with sidewalk and electrical work, as well as thermite welding.

Closely Monitored Issues

- COVID-19 impacts
- Working adjacent to wetland areas, environmental compliance concerns



Cost Summary

Present Financial Status	Amount*				
E320 Contractor - Shimmick/Parsons JV.					
Original Contract Value	\$319,859,000				
Change Order Value	\$8,151,078				
Current Contract Value	\$327,964,588				
Total Actual Cost (Incurred to Date)	\$295,028,057				
Percent Complete	96.07%				
Authorized Contingency	\$38,532,000				
Contingency Drawdown	\$8,151,078				
Contingency Index	4.5				

^{*\$} Amount excludes betterments and STArt.



Civil work along Bellevue Way SE for bus turn-out

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Link Light Rail East Link Extension



Contract E330 - Downtown Bellevue Tunnel- Pending Acceptance

Current Progress

Completed working on punch list items and tunnel handover to E335. Continued working with City Of Bellevue to closeout permits and transfer permits to E335. Reviewing as-built drawings as required.



Next Period's Activities

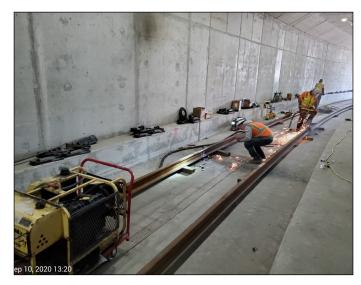
- Working with Sound Transit toward final acceptance and financial close out.
- Review as-built drawings as required.

Closely Monitored Issues

 Contractor and Sound Transit working to complete remaining final acceptance and paper work and confirm all completion of punch list items.

Cost Summary

Preset Financial Status	Amount					
E330 Contractor– Guy F Atkinson Construction, LLC.						
Original Contract Value	\$121,446,551					
Change Order Value	(\$1,111,675)					
Current Contract Value	\$120,334,876					
Total Actual Cost (Incurred to Date)	\$120,334,876					
Percent Complete	100%					
Authorized Contingency	\$13,256,330					
Contingency Drawdown	(\$1,111,675)					
Contingency Index	N/A					



E335 installing tracks at Bellevue Downtown Tunnel.

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Contract E335 – Bellevue to Spring District Heavy Civil GC/CM

Current Progress

East Main Station: Downtown Bellevue Tunnel: Continued Installation of, storm drain, irrigation/planting soil, platform angle and installed roof decking for South Portal Electrical Building. Repaired paving at 112th and Main St.

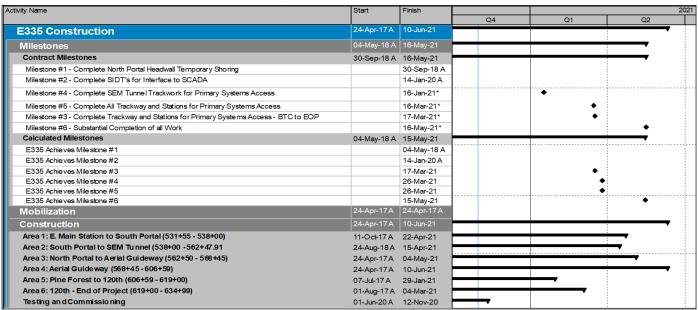
Bellevue Downtown Station (BDS): Completed Surface level concrete topping slab and installed mechanical equipment at mid-level. Continued meal panel framing for exterior walls, Wire pulling on mid and platform level, continued elevators installation.

120th Station: Completed chase cover and drill for speakers, ceiling grid over south head house plaza, branch power wire pull and termination. Commenced chain link fence installation and door hardware installation.

Track Work: Continued plinth construction and placement in Bellevue Tunnel and East Main Station. Continued to work on Punch list at Kirkland Wye Ballasted tracks.

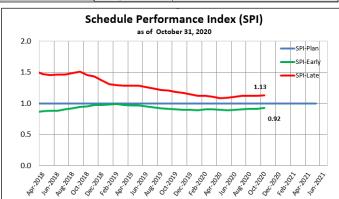
Schedule Summary

There are two primary critical paths on this contract, corresponding to the two handovers to the E750 Systems Contractor. One critical path runs through the Bellevue Downtown Station (BDS) and the other path goes through the South Portal and its electrical building. The contractor's October update is presented below. Work is currently progressing in all areas; phased handovers of work areas to the E750 contractor have begun.



Schedule Performance Index

This period, the SPI-Early is at 0.92 and the SPI-Late is at 1.13. The variance is primarily due to Delay on 3 stations in progress – BDS, Wilburton, and 120th. In addition, delay in Switch Gear Procurement and delivery pushed out establishment of permanent power connection, testing and commissioning for BDS and South Portal Power Building.



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Link Light Rail East Link Extension



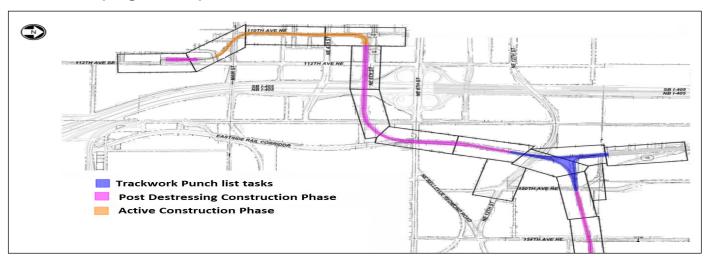
Next Period's Activities

- East Main Station: Continue tile and pave installation, storm and waterline.
- **BDS:** Continue wire pulling on midlevel platform, elevator installation and platform Tile installation.
- Wilburton Station: Continue wire pulling in electrical and main rooms, tile and roof glazing and canopy panel installation.
- **120th Station:** Commence door paints, install sprinkles heads and trim North and South lobby.
- Track Work: Complete track plinth construction and concrete placement between Tunnel and Eastmain Station.

Closely Monitored Issues

- Continued inefficiencies in adhering to COVID-19 safety requirements will continue to impact progress.
 Contractor is working diligently to sequence work within the stations to minimize these impacts.
- Procurement and selection of switchgear equipment has delayed. This switchgear may now not be delivered until Feb 2021, and PSE will not connect power until this equipment is installed and terminated. ST closely monitor the procurement process.
- Un-finalized fire alarm design at BDS station continue to impacting completion of these systems at the station.

Track work progress map



Cost Summary

Present Financial Status	Amount						
E335 Contractor– Stacy & Witbeck/Atkinson Joint Venture (SWA-JV).							
Original Contract Value (includes station scope)	\$393,798,210						
Change Order Value	\$13,999,727						
Current Contract Value	\$407,797,937						
Total Actual Cost (Incurred to Date)	\$342,484,413						
Percent Complete	89.15%						
Authorized Contingency	\$19,689,911						
Contingency Drawdown	\$13,999,727						
Contingency Index	1.3						



East Main Station: Plinths concrete placement.

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Contract E340 - Bel-Red

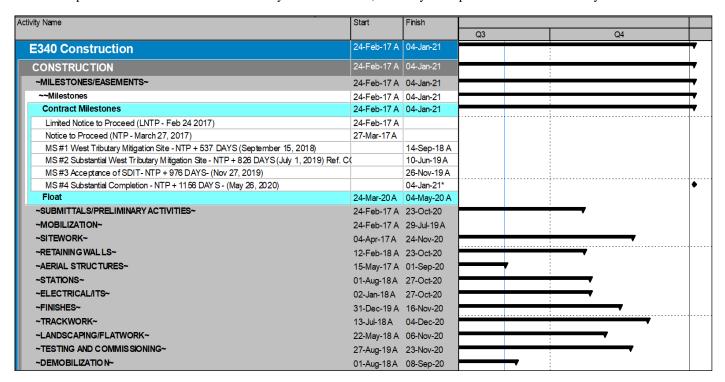
Current Progress

Aerial Guideway area: Installed chain link and fire suppression system fence brackets. Formed and poured direct fixation plinths. Installed emergency walkway and ductbank and guideway storm drainage.

130th Ave Station: Installed entry canopy conduit and lighting. Installed mortar bed tile and pavers. Installed entry canopy soffit panels. Demolished embedded track slab. Continued site grading.

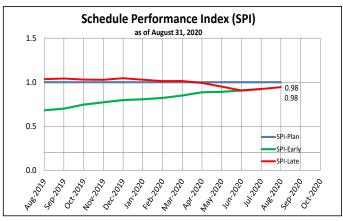
Schedule Summary

Critical path of this project segment now runs through electrical work at 130th Station. The contractor's August update is presented below. Subsequent updates have not yet been submitted. ST and the contractor continue to negotiate recovery options in order to preserve the interface with the E750 systems contractor, currently anticipated near the end of the year.



Schedule Performance Index

The Contractor is behind on their substantial completion date. This Schedule Performance Index chart has been updated as of August 2020 which is the latest schedule submittal. Contractor has been tardy with their schedule. The SPI-Early is at 0.98 and the SPI-Late is at 0.98. These numbers indicate that the contractor continues to lag.



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Link Light Rail East Link Extension



Next Period's Activities

Aerial Guideway area: Install chain link and decorative fence. Install mitigation plantings, emergency walkway and ductbank. Install guideway storm drainage.

130th Ave Station: Continue install entry canopy conduit and lighting and mortar bed tile and pavers. Install handrail along entry canopy walkways.

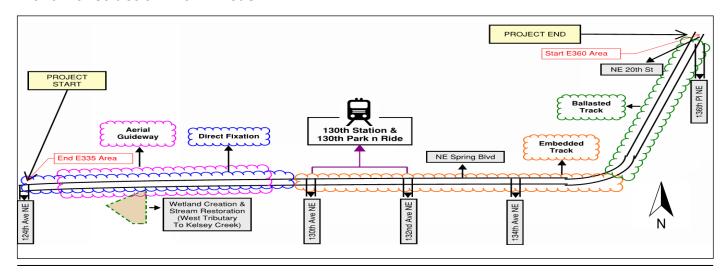
NE Spring Blvd: Install metal safety railing, landscaping, and illumination poles. Apply pavement marking.

136th Place NE: Install landscaping, metal safety railing, permanent signing. Apply pavement marking.

Closely Monitored Issues

- Sound Transit is observing impacts to the Contractor's progress due to resource constraints, both labor and administrative. The Contractor indicated they are discussing acceleration opportunities with their subcontractors.
- There are several Temporary Construction Easements (TCE) with upcoming expiration dates. The Contractor has been advised that they need to work out an agreement with the property owners where extensions are not granted.

E340 Construction Work Areas



Cost Summary

Present Financial Status	Amount						
E340 Contractor- Max J Kuney							
Original Contract Value	\$93,170,012						
Change Order Value	\$5,486,036						
Current Contract Value	\$98,656,048						
Total Actual Cost (Incurred to Date)	\$92,423,059						
Percent Complete	92.1%						
Authorized Contingency	\$9,317,000						
Contingency Drawdown	\$5,486,036						
Contingency Index	1.56						



Applying sealer to paver bed at SW-side station platform.

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Contract E360 – SR 520 to Redmond Technology Station (RTS)

Current Progress

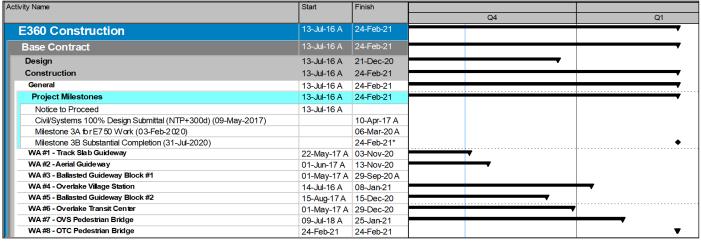
Design: Notice of Design Change work is still ongoing to include ST and KH initiated changes. Design changes include Sweeper Site Access Road and Clear Zone Protection. KH has presented a garage repair design and ST has presented an additional peer review due to garage beam cracks being discovered and is under joint ST review.

Construction: Impacts due to COVID-19 are addressed in the Executive Summary. Work resumed on May 4, 2020.

- Work Area (WA)#1: Park Place landscape, planting and mulch going down at East Alignment Light pole procurement in progress. Fencing along West side.
- WA #2: Commence work on latest Sweeper Site design. Oakhurst parking lot and TPSS site asphalt paving. Compost and mulch City of Bellevue Right of Way.
- WA #3/4: Set light poles and wood light poles. Re-paint electrical enclosure. Install GRD on staircase, platform benches and flashing beacon. Trash enclosure mesh install completed. Roundabout asphalt placement complete, preparing for striping. Access Control work ongoing at station.
- WA #5: All major construction activities complete in this area.
- WA #6: Decorative paving and landscaping continues. Handrail at flyer stop completed. Paver sealant at platform installed. Access Control ongoing. Prepare for sidewalk placement.
- WA #7: Install architectural soffit panels, Safeguard HLL System ongoing with Kenco Abutment 1 and pier 3 roof.

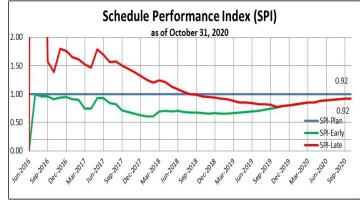
Schedule Summary

The critical path currently runs through the pedestrian bridge at Overlake Village Station. The E750 contractor now has access to all work areas.



Schedule Performance Index

The May/June/July pay apps are being withheld due to defective structural design and construction of the RTS garage. Schedule Performance Index chart has been updated per the latest schedule submittal. Early and late SPI are both 0.92. The lag on SPI curves are skewed to the late finish because of pending commercial resolution of the RTS pedestrian bridge scope that was terminated from the project.



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Link Light Rail East Link Extension



Next Period's Activities

- WA #1: Final planting.
- WA #2: WSDOT fence install. Concrete lollak— Trackway. WSDOT Punch Walk.
- WA #3/4: Asphalt striping in 152nd, ADA ramps. Demobilization.
- WA #5: Plants and irrigation.
- WA #6: Punch list items.
- WA #7: Sweeper WSDOT Fence. Wall finish.

Closely Monitored Issues

- Sixteen NCR's are currently underway and scheduled to be completed in November 2020.
- Commercial issues for RTS Pedestrian Bridge, City of Redmond CDF Trench Backfill, TOD Laydown Areas.
- Schedule delays for Building Management Systems E340/E360 Interface, Jan & Feb weather events.
- Design development and determination of commercial impacts for the access road to Valley Creek vault. No longer a sweeper site disposal area.
- RTS Garage cracking and 3rd party structural analysis.

E360 Construction Work Areas



Cost Summary

Present Financial Status	Amount					
E360 Contractor— Kiewit-Hoffman						
Original Contract Value	\$225,336,088					
Change Order Value	\$7241,698					
Current Contract Value	\$233,113,838					
Total Actual Cost (Incurred to Date)	\$210,966,731					
Percent Complete	95.57%					
Authorized Contingency	\$22,533,609					
Contingency Drawdown	\$7,777,750					
Contingency Index	3.4					





WA 6 — RTS Decorative Paving Approach

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Contract E750 - Systems Heavy Civil GC/CM

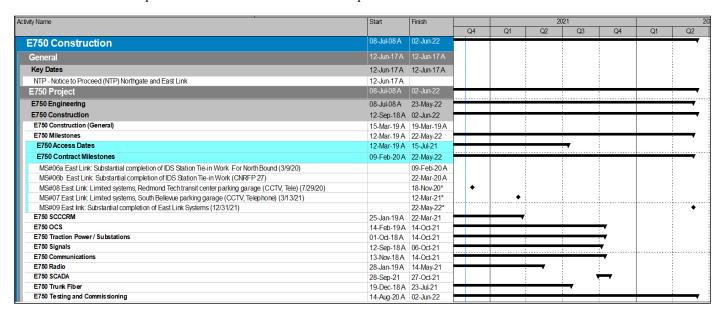
Current Progress

The E750 Contractor, Mass Electric Construction Co. (MEC), continued to prosecute the work as follows:

- Continue development and reviews of engineering submittals covering all disciplines: Traction Power Substations (TPSS),
 Overhead Catenary Systems (OCS), Train Control Signal Systems and Communications.
- Ongoing coordination meetings for interface and access points for respective contracts.
- Installation of communication devices, cameras, radio systems, PA systems and UPS inspections at E130 and E360 civil segments.
- Delivered TPSS unit and preformed basement build out at E130 civil segments.
- Installed cantilevers and set OCS poles at the E130 and set OCS poles at E360 civil segments.
- Installation of signaling conduit and cable pulling at E130 and E360 civil segments.

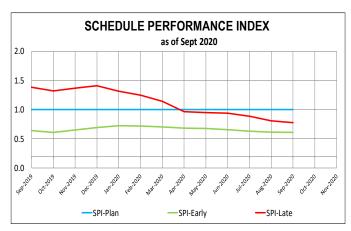
Schedule Summary

The contractor's October update is presented below. The critical path for this project is driven by access to Bellevue Downtown Station, followed by OCS installation. The contractor has experienced some delays in access to work areas, but is still forecast to achieve substantial completion in time to meet Sound Transit's post-construction schedule.



Schedule Performance Index

Performance for September is shown as the October invoice has been submitted but not approved. September SPI-Early is 0.61 and SPI-Late is 0.78. Both figures indicates the contractor is behind the early and late plans. This lag is due to access issues on civil segments, especially E130 and E360, as well as from the April suspension of activities in response to COVID-19. While the suspension was lifted on May 4th the challenges to comply with pandemic protocols remains a challenge and directly impacts the efficiency of work. The trend is expected to persist in the near future.



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Link Light Rail East Link Extension

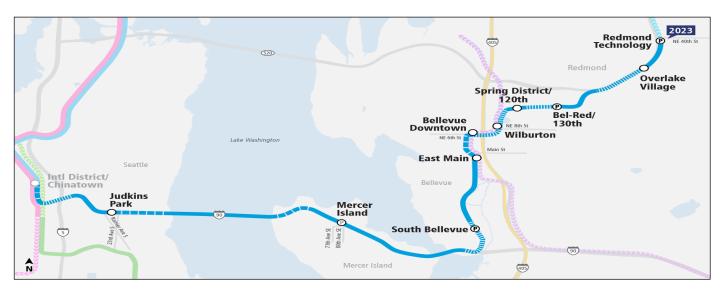


Next Period's Activities

- Continue development and reviews of engineering submittals covering all disciplines: TPSS, OCS, Train Control Signal Systems and Communications.
- Ongoing coordination meetings between systems and civil contractors for interface and access points.
- Ongoing installation and delivery of TPSS and Factory Acceptance Testing (FAT).
- Ongoing installation of OCS cabling and pole installation at the E130 and E360 civil segments.
- Ongoing installation of signal equipment at the E130 and E335 civil packages.

Closely Monitored Issues

- Monitoring conduit handover from civil to systems contractor; mitigation steps have been taken to survey all conduits and to work closely with the civil contractors to rectify the situation.
- Civil contractors are currently reporting some form of delay or partial completion on the System Access Dates.
- Contractor's labor ramp up is insufficient to meet the planned construction activities. The planned to actual labor ramp up is being monitored.
- COVID-19 impacts continue to be fluid and is being monitored.



Cost Summary

Present Financial Status	Amount					
E750 Contractor - Mass Electric Construction Co.						
Original Contract Value	\$255,768,128					
Change Order Value	\$465,181					
Current Contract Value	\$256,233,309					
Total Actual Cost (Incurred to Date)	\$102,144,047					
Percent Complete	48.6%					
Authorized Contingency	\$12,788,406					
Contingency Drawdown	\$465,181					
Contingency Index	13.22					

^{*}The N830 and E750 Systems is a joint procurement. The Cost Summary table above represents E750 Systems only.



Delivery of TPSS unit at Mercer Island Station (E130)

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Link Light Rail Downtown Redmond Link Extension

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Link Light Rail Downtown Redmond Link Extension



Project Summary

Scope

Limits The Downtown Redmond Link Extension

(DRLE) builds new light rail from the Redmond Technology Station to downtown

Redmond.

Alignment The extension starts at Redmond

Technology Station and travels generally along SR-520 and SR-202 to downtown

Stations Two Stations—SE Redmond (at Marymoor

Park) and Downtown Redmond

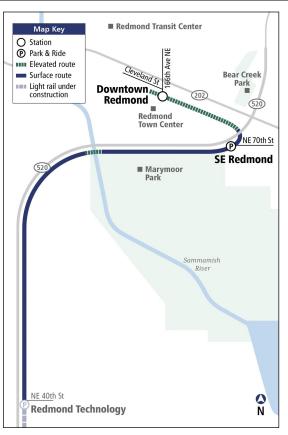
Systems Signals, traction electrification, and

communications (SCADA)

Phase Design Build

Budget \$1.530 Billion (Baselined October 2018)

Schedule Revenue Service: December 31, 2024



Map of Downtown Redmond Link Extension

Key Project Activities

- Received Army Corps of Engineers permit and King County Clear and Grade permit.
- Progressing Bear Creek mitigation design.
- Progressing 60th tributary crossing design. Anticipate the 30% design in early November.
- Clearing started in Marymoor Park; demolition of buildings in SE Redmond; site preparation work near NE 51st; and tree removals.
- An update to the Areas of Potential Effect (APE) in process with FTA.

Closely Monitored Issues

- Private utility relocations approximately 40 relocations by nine utility owners.
- Relocation of cell tower facilities.
- Timely right-of-way acquisitions.
- Other potential inefficiencies due to COVID-19 public health and safety protocols and the remote work environment.

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Link Light Rail Downtown Redmond Link Extension

Project Cost Summary

Voters approved funding for preliminary engineering for the Redmond Link Extension (DRLE) in the 2008 in the Sound Transit 2 ballot measure. In response to the 2007-2009 Great Recession, the ST Board suspended the project. In February 2016, the ST Board restored funding to support preliminary engineering of the project prior to funding approval for final design and construction as part of the Sound Transit 3 Plan. Table (below) figures in millions. This project has now been baselined, The baseline budget has been incorporated into the tables below. The first table below summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS), while the second table in FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

In this period, DRLE incurred approximately \$17.5 of expenditure. This period expenditure incurred primarily in Construction phase (\$10.3M) for mostly progression of design build scope. The rest of the expenditures for about \$7.2M during this period are expended largely to ST staffing, Third Parties and Consultants in Administrative (\$2M) and Construction Services and ROW phase (\$5.1M). Total cumulative expenditure to date rose from \$238.9M to \$256.3M.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$77.0	\$77.0	\$12.3	\$12.2	\$77.0	\$0.0
Preliminary Engineering	\$23.0	\$23.0	\$19.6	\$18.8	\$23.0	\$0.0
Final Design	\$4.5	\$4.5	\$0.7	\$0.5	\$4.5	\$0.0
Construction Services	\$58.0	\$58.0	\$49.7	\$10.7	\$58.0	\$0.0
Third Party Agreements	\$17.0	\$17.0	\$10.8	\$4.2	\$17.0	\$0.0
Construction	\$1,151.5	\$1,151.5	\$735.2	\$130.5	\$1,151.5	\$0.0
ROW	\$199.0	\$199.0	\$84.1	\$79.5	\$199.0	\$0.0
Total	\$1,530.0	\$1,530.0	\$912.2	\$256.3	\$1,530.0	\$0.0

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$332.4	\$332.4	\$229.5	\$38.7	\$332.4	\$0.0
20 Stations	\$261.9	\$261.9	\$182.5	\$17.0	\$261.9	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$287.1	\$287.1	\$193.5	\$21.3	\$287.1	\$0.0
50 Systems	\$108.6	\$108.6	\$65.2	\$6.1	\$108.6	\$0.0
Construction Subtotal (10 - 50)	\$990.0	\$990.0	\$670.7	\$83.1	\$990.0	\$0.0
60 Row, Land	\$168.5	\$168.5	\$77.9	\$75.1	\$168.5	\$0.0
70 Vehicles (Non-Revenue)	\$4.1	\$4.1	\$0.0	\$0.0	\$4.1	\$0.0
80 Professional Services	\$289.3	\$289.3	\$163.6	\$98.1	\$289.3	\$0.0
90 Unallocated Contingency	\$78.2	\$78.2	\$0.0	\$0.0	\$78.2	\$0.0
Total (10 - 90)	\$1,530.0	\$1,530.0	\$912.2	\$256.3	\$1,530.0	\$0.0

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Link Light Rail Downtown Redmond Link Extension



Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The project completed its quantitative risk assessment risk workshop as part of the project baseline process in Q4 2018. The quantitative risk assessment report supported with good probability that the project baseline cost and schedule assumptions. The externality conditions remains the same this period and may have reduced in some instances, therefore, the project's risk profile remains unchanged. Q2 risk is currently being updated. The following are the current top project risk areas:

- Property acquisition market conditions; protracted durations of attaining control of properties; evolving design impacts
 property needs; however, the current cost risk seems to be subsiding due to appraisals and offers aligning to the baseline
 budget assumptions.
- Permitting and third party requirements construction adjacent to SR520; flood prone areas by Sammamish River and Bear Creek; archaeological discovery; permitting of stream crossings; betterment requests increases complexity of projects; construction impacts to traffic; protracted negotiation with third parties; interfaces with private utilities for utility relocations.
- Construction market conditions inflationary pressure due to competitiveness for resources and labor; higher materials
 pricing due to demand as well as regulations (tariffs and taxes); However, since the DB contract bid and awarded for less
 than baseline estimate, a very significant cost pressure to this project has been averted.
- Agency staffing capacity developing and mobilizing resources and coordinating start up activities across multiple extensions within a short time frame.
- COVID-19 pandemic impact due to COVID-19 is unknown and this fluid situation is being closely monitored.

Project Schedule

The project schedule is presented below. Design, permitting and pre-construction submittals are ongoing. Early construction work (establishment of environmental controls and haul roads, and 3rd party utility relocation) is underway. The *Early Work A Issued For Construction (IFC) Design Package* is currently under development and the *Early Work B 100% Design Package* was submitted for review; major construction is expected to start toward the end of the year. The project is forecast for completion toward the end of 2024.

Activity Name		Finish	2021 2022 2023 2024			
Downtown Redmond Link Extension - Construction	09-Sep-19 A	31-Dec-24				
R200 Downtown Redmond Link Extension - Design-Build Contract	09-Sep-19 A	19-Aug-24	_			
CONTRACT MILESTONES & INCENTIVES	09-Sep-19 A	19-Aug-24	 			
SWK Construction Complete		08-Nov-23			•	
MS-1 Project Ready for Pre-Revenue Operations (5/21/24)		21-May-24*	1.1			•
MS-2 Acceptance of Al Work - Ready for Revenue Service (8/19/24)		19-Aug-24			1	•
OWNER FLOAT	09-Sep-19 A	19-Aug-24				
PRE-CONSTRUCTION PRE-CONSTRUCTION	09-Sep-19 A	08-Sep-21	_			
CONSTRUCTION	09-Sep-19 A	21-May-24				-
occ	07-Aug-23	02-Oct-23			-	
PUNCHLIST	09-Nov-23	06-Feb-24	1		_	7
TESTING INTEGRATION / REVENUE SERVICES	19-Jul-22	20-Jul-24		_		
SAFETY & SECURITY CERTIFICATION	03-Jul-20 A	19-Aug-24	—			
Downtown Redmond Link Extension - Rail Activation/Closeout	15-Sep-23	31-Dec-24			·	
Systems Integration & Testing	15-Sep-23	21-May-24			_	—
Safety and Security Certification	09-Nov-23	31-Jan-24	I			7
Pre-Revenue Service	22-May-24	19-Aug-24				-
Pre-Revenue Operations	22-May-24	19-Aug-24				
Revenue Service/Project Float	20-Aug-24	31-Dec-24]			-
Project Float	20-Aug-24	31-Dec-24	1			
Revenue Service		31-Dec-24				+

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Link Light Rail Downtown Redmond Link Extension

Right-of-Way

The Right-of-Way effort for this project involves the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations. The right-of-way program status for this period is summarized in the following table.

Downtown Redmond Link Extension Property Acquisition Status*						
ACQUISITION			RELC	CATION		
Total Acquisitions	Board Approved	Offers Made to date	Closings to date	Relocations Required **	Relocations Completed to date	
88	88	91	53	1577	1498	

^{*} All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of reporting periods.
** A large majority of the relocation count is due to the relocation of storage units.

Note: The change in Board Approved was due to a correction. The WSDOT ASL/TCAL leases was being counted in the #of parcels needed and board authorized and they should have been included in the WSDOT tracking.

Community Outreach

- Ongoing engagement with the public and businesses on potential construction impacts, with specific focus on property
 owners and tenants regarding the start of construction this year and the increasing construction activities along SR520.
- Continued door-to-door notification in advance of demolition near South East Redmond station area.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average is the monthly annualized average of 12 months; whereas the YTD monthly average only reflects actuals through October of 2020. The consulting variance is due to the fact that the design build project management consultants are being prudently mobilized. Effectively the variance gap should trend closer to plan average as the year progresses; however, due to fluidity of the situation with COVID-19, it hard to predict how the annual plan will unfold accordingly.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	30.8	22.9	(7.9)
Consultants	25.9	27.2	1.3
TOTAL	56.7	50.1	(6.6)

^{*} An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Project Summary

Scope

The West Seattle Extension includes 4.7 miles of light rail from downtown Seattle to West Seattle's Alaska Junetian

West Seattle's Alaska Junction

West Seattle neighborhood and includes a bridge across the Duwamish Waterway.

The Draft EIS includes alternatives on the south and north side of the West Seattle Bridge and elevated and tunnel guideway alternatives in West Seattle Junction.

The Ballard Extension includes 7.1 miles of light rail from downtown Seattle to

Ballard's Market Street area.

The Draft EIS includes alignment

alternatives in Downtown, Interbay, and Ballard; different station depths in Chinatown-International District and Downtown; and bridge and tunnel alternatives across Salmon Bay.

Stations See project map

Phase Planning

Budget \$285.9 M through completion of

Preliminary Engineering

Schedule Revenue Service Date(s) will depend on

Board direction from realignment process.



Map of Project Alignment

Key Project Activities

- Continued production of the Draft EIS.
- Continued collecting data and conducting fieldwork for environmental and engineering evaluation in support of design.
- Briefed community groups virtually as requested. Provided overview of outreach, project goals, agency roles, and near-term opportunities for engagement.
- Continued engagement with partner and regulatory agencies, stakeholder groups and property owners regarding environmental process and next steps.
- Continued coordinating with partner agencies including City of Seattle, King County, Port of Seattle and other local, state and federal agencies.

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Project Cost Summary

The West Seattle and Ballard Link Extensions are voter-approved projects under the ST3 Plan. The current Authorized Project Allocation (budget) for the project that has been approved by the Sound Transit Board allows staff to conduct alternatives development, followed by an Environmental Impact Statement, leading to ST Board selection of the project to be built and FTA issuance of a Record of Decision no later than 2022.

Out of the total Authorized Project Allocation, the project is authorized and planned to incur approximately \$47M in 2020 for completing Draft EIS development, conceptual engineering; project administration and stakeholder engagement.

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$63.1	\$15.9	\$15.7	\$63.1	\$0.0
Preliminary Engineering	\$205.4	\$85.0	\$69.9	\$205.4	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$11.4	\$1.5	\$0.7	\$11.4	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$6.0	\$2.5	\$1.3	\$6.0	\$0.0
Total	\$285.9	\$104.9	\$87.6	\$285.9	\$0.0

Cost Summary by SCC

SCC Element	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
50 Systems	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Subtotal (10 - 50)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
60 Row, Land	\$5.0	\$2.5	\$1.3	\$5.0	\$0.0
80 Professional Services	\$263.4	\$102.4	\$86.3	\$263.4	\$0.0
90 Unallocated Contingency	\$17.5	\$0.0	\$0.0	\$17.5	\$0.0
Total (10 - 90)	\$285.9	\$104.9	\$87.6	\$285.9	\$0.0

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Risk Management

Sound Transit has a vigorous risk management program and is committed to identifying, assessing, and monitoring risks and implementing risk reduction/mitigation actions. Risk Assessment for the West Seattle and Ballard Link Extensions Project was conducted as part of the ST3 Planning process.

Project issues and risks identified at this stage include:

- Reaching stakeholder consensus on a preferred alternative, including third party funding;
- Complexity of alignments in constrained environment with challenging topography and waterway crossings;
- Complexity associated with tunneling through a mature urban environment;
- Potential construction effects in a constrained environment;
- Potential effect on Central Link operations during construction;
- Right-of-way and property impacts;
- Potential budget risk due to higher current real estate costs and construction costs.

Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment. Through this period, the project has experienced three months of delay within the conceptual engineering phase of design which is associated with COVID-19 related impacts and which has the potential to delay the overall project schedule. Revenue Service Date for the different sections will depend on Board direction from the realignment process.

Activity Name	Start	Finish		
				2021
			Č.	Q1 Q2 Q3 Q4
Sound Transit	17-Mar-17 A	30-Dec-22		
ST3 - Central Corridor	17-Mar-17 A	30-Dec-22		
West Seattle and Ballard Link Extension	17-Mar-17 A	30-Dec-22		
West Seattle and Ballard Link Extension	17-Mar-17 A	30-Dec-22		
West Seattle and Ballard Link Extensions	17-Mar-17 A	30-Dec-22		
Alternative Analysis - (Phase I)	17-Mar-17 A	23-May-19 A		
Conceptual Engineering - (Phase II)	24-May-19 A	16-Dec-21		
Conceptual Engineering - Milestones	18-Nov-21	16-Dec-21		_
WSBLE - Board Reaffirms Preferred Alternative	18-Nov-21	16-Dec-21		
Conceptual Engineering	24-May-19 A	03-Nov-21		
Geotech Investigation - Phase II	24-May-19 A	12-Nov-20	_	
Preliminary Engineering -(Phase III)	17-Dec-21	30-Dec-22		•

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Community Outreach

- Prepared and staffed two community briefings in October 2020 for the communities to learn more about light rail route and station location options being studied in the Draft EIS. The specific dates of those events were:
 - Youngstown Neighborhood October 20, 2020
 - Seattle Rep Theatre and Seattle Center October 21, 2020
- Prepared and staffed two property owner meetings
- Continued effort to contact stakeholders throughout project corridor to offer briefings
- Continued effort to prepare for Fall 2020 outreach activities
- Developed and distributed fieldwork notifications regarding three geotechnical borings, a water pump test, and one vibration testing activity

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE is an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average takes peaks and valleys in activity into account; whereas the YTD monthly average only reflects January—October actuals. Staffing variance reflects extension of DEIS schedule to accommodate internal and external agency capacity in response to COVID.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	44.8	35.2	(9.6)
Consultants	125.0	102.6	(22.4)
TOTAL	169.8	137.8	(32.0)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Project Summary

Scope

Limits The Federal Way Link Extension adds

approximately 7.8 miles of light rail from the Angle Lake Station in the City of SeaTac to the Federal Way City Center.

Alignment The extension generally parallels SR 99

and I-5 freeway.

Stations Stations at Kent/Des Moines, South 272nd

Star Lake Park -and-Ride and the Federal

Way Transit Center

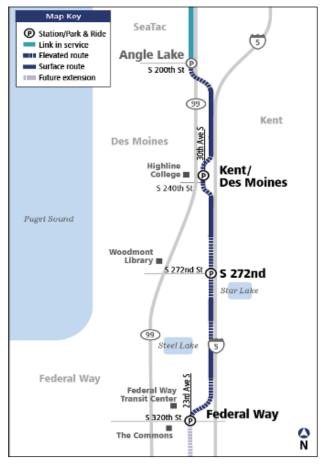
Systems Signals, traction power, and

communications (SCADA)

Phase Proceed to Final Design/Construction

Budget \$2.45 Billion (Baseline Sep 2018)

Schedule Revenue Service: December 2024



Map of Federal Way Link Extension.

Key Project Activities

- F200: Continue task force meetings with project team: Federal Way Transit Center design at 60% and 90% design at Star Lake Station. Excavation work at Midway Landfill has concluded for the season.
- **F200**: Continue mass excavation and clearing & grubbing throughout the alignment. Continue drill shafts for elevated guideway at Kent-Des Moines Station.
- **F200**: Federal Way Public Schools has agreed to design at Mark Twain Elementary school, resulting from discussions between ST CEO and FWPS Superintendent last month. F200 design task force will implement.
- Continue development of several future task orders for utility relocation agreements with PSE.
- Challenges continue with project team and PSE to maintain ongoing collaborative field work activities with F200 impacting deep foundation drilled shaft work.
- Project team, PSE and WSDOT continue to secure time-sensitive outstanding WSDOT utility permits related to PSE work.
- The cities have collectively issued 198 permits, of which 124 issued during remote working conditions due to COVID-19.
- Progress continues with settling Right-of-Way acquisition and relocations this period; however acquisitions in condemnation are on hold due to court system shut down resulting from COVID-19 and Governor issued "Stay Home, Stay Healthy" proclamation.

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Project Cost Summary

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

This period approximately \$49M was incurred for October of which \$2M incurred was for Right-of-Way; \$1.5M incurred for Construction Services; \$44.4M for Construction phase comprised mainly of \$44.1M for Design Build construction contract, \$0.3M for Cities Construction Permits and Utility Relocations. Remaining major expenditures reside in Preliminary Engineering, Third Party and Administration. Overall the project Estimate at Completion continues to reflect \$2.45B.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$96.5	\$96.5	\$27.5	\$27.5	\$96.5	\$0.0
Preliminary Engineering	\$46.5	\$49.0	\$45.5	\$45.0	\$49.0	\$0.0
Final Design	\$3.1	\$3.1	\$1.0	\$0.9	\$3.1	\$0.0
Construction Services	\$107.0	\$107.0	\$97.2	\$24.3	\$107.0	\$0.0
3rd Party Agreements	\$27.7	\$27.7	\$22.2	\$7.3	\$27.7	(\$0.0)
Construction	\$1,831.9	\$1,829.4	\$1,335.1	\$320.2	\$1,829.4	\$0.0
ROW	\$338.8	\$338.8	\$193.8	\$190.0	\$338.8	(\$0.0)
Total	\$2,451.5	\$2,451.5	\$1,722.4	\$615.3	\$2,451.5	\$0.0

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$523.0	\$451.1	\$388.4	\$68.9	\$513.4	(\$62.4)
20 Stations	\$318.9	\$297.7	\$249.8	\$43.0	\$333.7	(\$36.0)
30 Support Facilities	\$5.3	\$11.8	\$11.3	\$2.0	\$5.1	\$6.7
40 Sitework & Special Conditions	\$558.4	\$489.5	\$463.3	\$109.6	\$638.1	(\$148.6)
50 Systems	\$153.8	\$170.4	\$114.1	\$20.3	\$150.8	\$19.6
Construction Subtotal (10 - 50)	\$1,559.4	\$1,420.4	\$1,226.8	\$243.8	\$1,641.0	(\$220.6)
60 Row, Land	\$341.6	\$338.8	\$193.8	\$190.0	\$338.8	(\$0.0)
70 Vehicles	\$1.8	\$1.8	\$0.0	\$0.0	\$1.8	\$0.0
80 Professional Services	\$370.7	\$514.4	\$301.8	\$181.5	\$293.7	\$220.6
90 Unallocated Contingency	\$178.1	\$176.3	\$0.0	\$0.0	\$176.3	\$0.0
Total (10 - 90)	\$2,451.5	\$2,451.5	\$1,722.4	\$615.3	\$2,451.5	\$0.0

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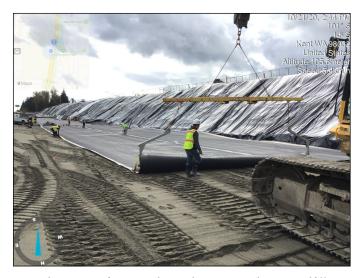


Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility for continuously monitoring project status and associated risks.

Below are the top project risks:

- Current covenants on the FL247 (Lowes) property may result in design and construction modifications to the alignment of the aerial guideway
- Federal Way Transit Center (FWTC) design changes as requested may impact cost and time higher than anticipated at time
 of issuance of RFP
- PSE service connections & utility relocations impacting the construction schedule
- DB delays due to securing PSE Easements for advanced utility relocations
- Schedule impacts from Third Party utility relocations (Clink, Comcast, PSE, etc.)
- System adequacy for traction power
- Schedule impacts due to unanticipated property rights and acquisition issues
- FWTC change order may delay permit issuance and construction, due to conservative city code interpretation and City Council process associated with changes to the Development Agreement
- Untimely city permits (SeaTac, Kent and Des Moines) impacting the design & construction schedule
- Not meeting the property acquisition schedule provided in RFP
- Requirements for facility/systems enhancements by AHJs
- Contaminated material encountered during construction
- PSE may request reimbursement to upgrade their electrical grid outside of known scope
- Additional drainage improvements may be identified as design progresses potentially delaying design and increasing construction costs. Unable to vest King County storm-water code



Placement of geomembrane liners at Midway Landfill



Excavation and hauling progress at Midway Landfill

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Contingency Management

The Federal Way Link Extension project budget was baselined in September 2018 with a total contingency of \$549.9M. The current contingency balance is \$530.5M.

Design Allowance (DA) has been used and no longer reported.

Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. During this period the AC decreased by \$57.6M, due to execution of seventeen change orders to F200 contract.

Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties. During this period the UAC remained unchanged from the previous month.

Contingency Status (Monthly)

	Baseline		Current	t Status
Туре	Amount	% of Total Budget	Remaining Amount	% of Work Remaining
Design Allowance	\$139.6	5.7%	\$0.0	0.0%
Allocated Contingency	\$232.2	9.5%	\$296.6	15.7%
Unallocated Contingency	\$178.1	7.3%	\$176.3	9.4%
Total:	\$549.9	22.4%	\$472.9	25.1%

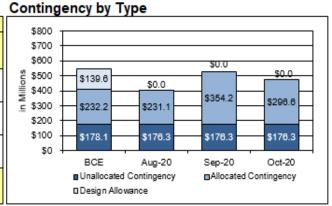
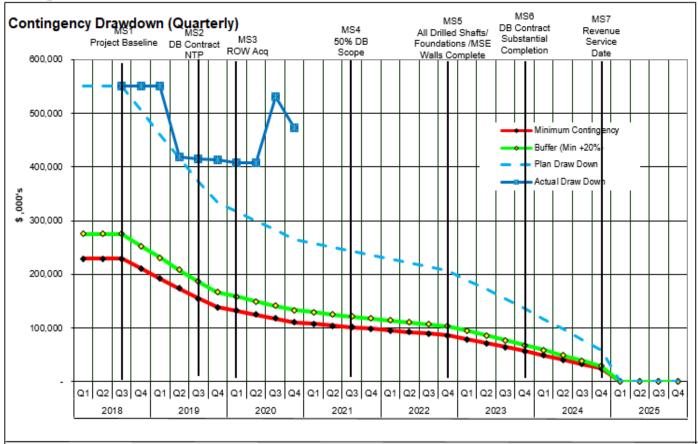


Table figures are shown in millions.

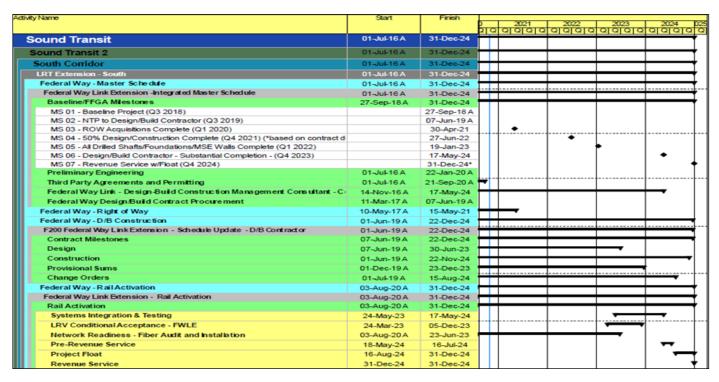


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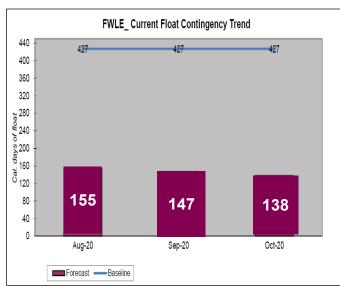
Project Schedule

The project schedule is presented below. Right-of-Way acquisitions continue and additional detail has been added to the master schedule to monitor impacts to the project. LNTP was issued June 7, 2019. The baseline schedule submittal was approved in January 2020. Our Full Funding Grant Agreement was awarded on January 22, 2020. A limited construction NTP was issued in early May 2020 with construction limitations. Kiewit is currently assessing impacts from FWTC design changes, utility relocations and ST may need to reduce the project float contingency as this change order is negotiated. Revenue Service remains on schedule for Q4 2024 even as schedule pressures mount. The schedule submittal from the F200 contractor for October is currently under review and is shown below.



Project Float

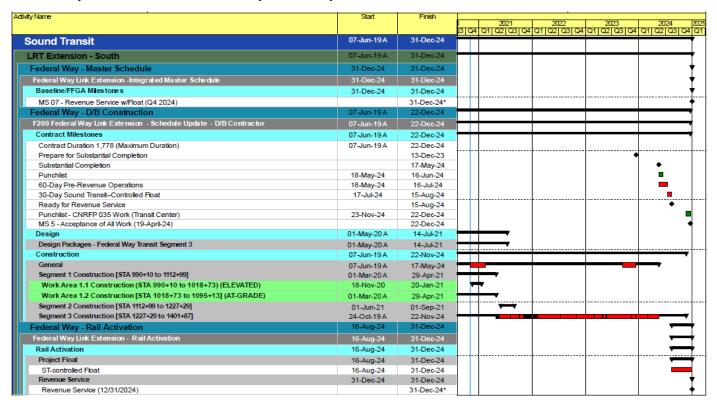
Federal Way Link Extension was baselined with 427 days of project float. Currently the project is reporting 138 days of project float remaining between Pre-Revenue Service and Revenue Service in December 2024. Schedule Pressure from ST design revisions for FWTC, Utility Relocates, and delays to ROW acquisitions, may require the reduction of float contingency in the near future, if mitigation measures are exhausted. No change orders have been issued to adjust contract milestones or utilize project float contingency at this time. Note that work at FWTC will continue during the project float contingency, Kiewit has found that this work is not important to opening for Revenue Service. ST will need to approve of this approach.



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Critical Path Analysis

The critical path to Revenue Service currently runs through drilled shafts through Structure B to G and columns, piers and span erection, and FW Station, Station Commissioning and Pre-Revenue and project float contingency. The second critical path is through FWTC design, utility installation, the FWTC construction and then Final Acceptance after Revenue Service. The scope for FWTC is still in early design and a change order for this redesign has not been incorporated in a change order at this time. Negotiations are expect to be complete near the end of 2020. We continue to focus on Pre-Revenue Service but F200 Milestone #5 Final Acceptance is now showing impacts out into December 2024 for completion of the project at the FWTC. The schedule update for October is currently under review but has been shown below. We continue to work with Kiewit regarding the schedule impacts of FWTC and have not accepted these impacts at this time.



Right-of-Way

Acquisitions for a range of property interests, includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations. The ROW status for this period is summarized in below table.

Federal Way Link Extension Property Acquisition Status					
	ACQUISIT	RELO	CATION		
Total Acquisitions	Board Approved	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date
257 353 288 227 434 432					
* All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of reporting periods.					

Terminology: Total Acquisitions is defined as only parcels (recognizing only land not owners). Board Approved based on parcels and properties (multi-unit acquisitions). Relocation numbers are the number of affected individuals.

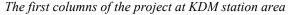
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Community Outreach

- Communication with property owners and the public on FWLE route, station areas and property acquisition is ongoing.
- Developed social media plan and calendar for FWLE Facebook page, increasing membership and engagement.
- Released a project update as narrated PowerPoint with subtitles in five languages and full translation in Spanish, Korean and Vietnamese.
- Assisted the contractor to conduct noise and vibration studies at Camelot Mobile Home Park.
- Met with project neighbors around tree removal and replacement.
- Began enrolling businesses in the Loyal to the Local business mitigation plan.
- Sponsored events for two community based organizations: Multi Service Center and Communities in Schools of Federal Way.







Column concrete placement

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Overall the project FTE is 21.4 (or 31%) over the staffing plan. Although ST staff is underrun by 9.7FTEs, the consultant staff is overrun by 31.1FTEs. This year more DBPM services for overseeing the DB contractor was needed than anticipated. More consultant staff has been needed to address the increasing activities by the DB contractor in the areas of change management, design and major construction work involving demo, utility relocations and various civil site work throughout the alignment.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	39.8	30.1	(9.7)
Consultants	28.7	59.8	31.1
TOTAL	68.5	89.9	21.4

^{*} An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

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Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

Construction Safety

Data/ Measure	October 2020	Year to Date	Project to Date		
Recordable Injury/Illness Cases	0	0	0		
Days Away From Work Cases	0	0	0		
Total Days Away From Work	0	0	0		
First Aid Cases	0	2	2		
Reported Near Mishaps	0	2	2		
Average Number of Employees on Worksite	234	-	-		
Total # of Hours (GC & Subs)	33,952	168,447	168,447		
OSHA Incident Rates	Monthly Average	Year to Date	Project to Date		
Recordable Injury Rate	0.00	0.00	0.00		
Lost Time Injury (LTI) Rate	0.00	0.00	0.00		
Recordable National Average	3.00				
LTI National Average	1.20				
Recordable WA State Average	6.00				
LTI WA State Average	1.90				

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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Phase 3 Preliminary Engineering (PE)

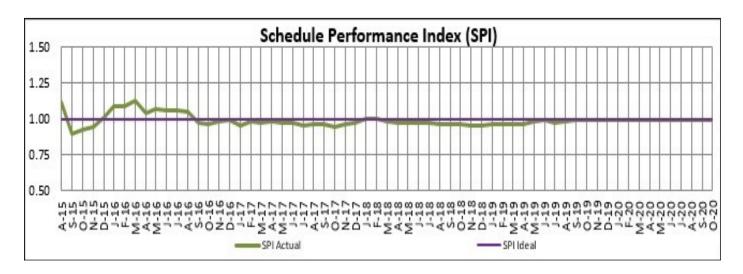
In July 2015, Sound Transit executed an amendment to the professional services agreement with HDR Engineering, Inc. for Phase 3 professional services, including completion of a Final Environmental Impact Statement (FEIS) using the preferred alternative and the other alternatives in the Draft EIS, preliminary engineering of the preferred alternative to Kent/Des Moines and additional engineering as needed to support receipt of environmental approvals. In February 2016, Sound Transit executed an amendment to extend the preliminary engineering effort from Kent/Des Moines to the Federal Way Transit Center.

Current Progress

- Provided support for property acquisition including ROW drawings, parcel maps, American Land Title Association (ALTA)
 maps and Temporary Construction Airspace Lease (TCALs).
- Various coordination works between Sound Transit, the DBPM and the design-builder (DB).
- Environmental works including updating the Traffic Analysis and noise study for proposed FWTC bus layover location.

Schedule Performance Index

The cumulative Schedule Performance Index (SPI) is 1.00 through October 2020, indicating the overall amount of work accomplished is as planned. The consultant (HDR) is fully engaged on coordination efforts with the DBPM consultant, and the design-builder, revisiting critical areas reports, NEPA/SEPA, property acquisition support with parcel maps, ALTA maps and TCALs.

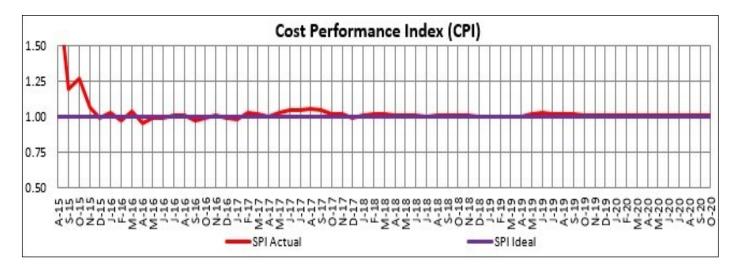


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Cost Performance Index

Phase 3 expenditures through October 2020 totaled \$36.8M, approximately 99.0% of the amended total contract. The Phase 3 percent complete is reported at 99.5%, with an earned value of \$37.05 M. The cumulative Cost Performance Index (CPI) is 1.01 showing costs are on track with work accomplished. The Consultant is engaged in coordinating efforts with the DBPM and the design-builder, environmental works, ROW acquisition support, parcel maps, ALTA maps and TCALs.



Cost Summary

Contract (Phase 3 portion)	Cumulative To-date
Amount Invoiced	\$36.8M
% Spent	99%
Earned Value	\$37.05M
% Complete	99.5%
SPI	1.00
СРІ	1.01

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F200 Design Build Contract

Current Progress

The F200 Design-Build Contractor, Kiewit, is continuing Design Task Force meetings and design package submittal reviews for S1 (Kent/Des Moines-KDM), S2 (Star Lake), S3 (Federal Way Transit Center-FWTC).

Design:

- Upcoming 90/100% design submittals include: CW.02 Systems Design, S2.05 SL Station, S3.06 End-of-Line Facility and Civil, S3.07 FWTC Garage
- Issued-for-Construction (IFC) design packages approved in October include: S1.01 Structure A, S3.01 Elevated Guideway
 Structure D, S3.03 Elevated Guideway Structure F, S3.04 Elevated Guideway Structure Span G01-G18

Construction

- Major demolition and excavation activities continue across the project. Demolition will be ongoing as parcels are acquired by Sound Transit and turned over to Kiewit. Demolition on 5 parcels was completed in October.
- At Midway Landfill, mass excavation and trenching/backfill continues. Permanent drainage lines also began in October along with the installation of the new landfill liner.
- Remediation efforts are ongoing as locations are identified.
- Drilled shafts were completed at Structure B and mobilization is upcoming for drilling the southern portion of Structure A.
- The FL-245 duct bank was completed and the area was turned over to PSE to complete their work.
- Clearing and grubbing are ongoing in S2 and S3 as parcels become available.

Schedule Summary

The progress schedule for October 2020 is currently under review and is shown below. Construction NTP was issued in May 2020. Revenue Service is expected in August 2024 based on Kiewit's schedule but please note *Milestone 5 - Final Acceptance* is reporting impacts due to FWTC redesign and is noted below in December of 2024. Kiewit has assumed and identified work that is not required for Revenue Service and is now tied to Final Acceptance. This will be considered during the negotiations for the FWTC redesign. ST continues to work with Kiewit regarding the schedule impacts of FWTC and have not accepted these impacts at this time.

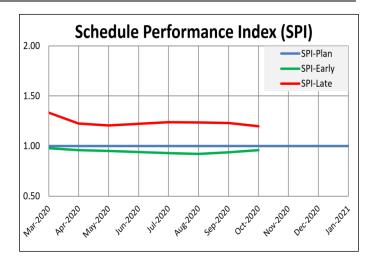
stivity Name	Start	Finish							
			0310	2021	3 04 01	2022	2023 Q1 Q2 Q3 Q4	2024	34
F200 Federal Way Link Extension - Schedule Update - D/B Contractor	01-Jun-19 A	22-Dec-24	13 4		<u> </u>	42 40 41	4. 42 40 4	2. 22 40 0	7
Contract Milestones	07-Jun-19 A	22-Dec-24	Н						┪
Limited Notice to Proceed	07-Jun-19 A		7						
Contractual Notice to Proceed	28-Feb-20 A								
Notice to Proceed	04-May-20 A								
MS 1 - Civil Work in WSDOT ROW From S 208th Street to I-5 (Sta. L 2260+00) (VA-2) (01-Mar-22)		15-Feb-22*]	T	•				
MS 2 - Civil Work in WSDOT ROW from Start of FWLE to S 208th Street (VA-1)(01-Nov-22)		13-Jul-22*				•			
MS 3 - LRV Early Storage (2,000 feet of Track) (01-Jun-23)		23-May-23*					•		
MS 4 - Work in WSDOT ROW from I-5 (Sta. L 2260+00) to S 272nd Street (VA-3) (01-Nov-23)		01-Sep-23*					•		
Substantial Completion		17-May-24						•	
60-Day Pre-Revenue Operations	18-May-24	16-Jul-24							
30-Day Sound Transit-Controlled Float	17-Jul-24	15-Aug-24							
MS 5 - Acceptance of All Work (19-April-24)		22-Dec-24	╛						•
Design	07-Jun-19 A	30-Jun-23					_		
Design Milestones	07-Jun-19 A	30-Jun-23							
Corridor Wide	07-Jun-19 A	25-Jun-21		_					
Design Packages - Kent Des Moines Segment 1	07-Jun-19 A	09-Mar-21	\vdash	 					
Design Packages - Star Lake Segment 2	07-Jun-19 A	15-Apr-21	Н						
Design Packages - Federal Way Transit Segment 3	07-Jun-19 A	14-Jul-21	-						
Construction	01-Jun-19 A	22-Nov-24		_					7
General	01-Jun-19 A	17-May-24							
Segment 1 Construction [STA 990+10 to 1112+99]	28-Jun-19 A	11-Jan-24	\vdash	+				▼	
Segment 2 Construction [STA 1112+99 to 1227+29]	28-Jun-19 A	11-Jan-24	Н	+	_			▼	
Segment 3 Construction [STA 1227+29 to 1401+87]	28-Jun-19 A	22-Nov-24		+	_			 	7
Provisional Sums	01-Dec-19 A	23-Dec-23	Н					†	
Change Orders	01-Jul-19 A	15-Aug-24		+				7	

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Schedule Performance Index

For the October period, the Early SPI is 0.96 and Late SPI is 1.20. Compared against revised cash flow projections, (incorporating both base contract and change orders executed to date), Kiewit is in line with projected amounts and good schedule performance is being maintained. Base contract design work is approximately 71% complete overall; this period saw significant progress in Design Segment 3. Civil work is at 18.6% progress overall, with work in this period being heavily focused on excavation at Midway Landfill. Guideway drilled shaft work continues, along with demolition and dry utility work.



Next Period's Activities

- General: Continue design task force meetings.
- Design: Advancing the design toward 60% and 90/100% design packages, FWTC and Midway profile change Re-Design effort will continue. Potholing for design will be completed and Post-Design service as required.
- Construction: Drilled shaft work, utilities, Midway Landfill liner installation, geotechnical inspections and monitoring, roadway and paving, fencing, noise walls, soil remediation.

Closely Monitored Issues

- Midway Landfill Agreements: Excavation and landfill removal continue.
- Federal Way Transit Center (Redesign): Design is underway. FWLE team reviewing Contractor cost proposal.
- **COVID-19:** construction activities continue with appropriate oversight.

Cost Summary

Present Financial Status	Amount					
F200 Contractor - Kiewit Infrastructure West Co						
Original Contract Value	\$1,285,200,000					
Change Order Value	\$63,696,781					
Current Contract Value	\$1,348,896,781					
Total Actual Cost (Incurred to Date)	\$304,039,679					
Percent Complete	24.54%					
Authorized Contingency	\$228,520,000					
Contingency Drawdown	(63,696,791)					
Contingency Index	0.9					



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Link Light Rail Hilltop Tacoma Link Extension



Project Summary

Scope

Limits City of Tacoma

Alignment The Hilltop Tacoma Link Extension project

is a 2.4-mile extension of the existing
Tacoma Link system from the Theater
District in downtown Tacoma to the Hilltop
neighborhood. The extension will travel
at-grade along Stadium Way, North 1st
Street, Division Avenue, and Martin Luther

King Jr. Way.

Stations Old City Hall, S. 4th, Stadium District,

Tacoma General, 6th Avenue, Hilltop

District, and St. Joseph.

Systems Expansion of the Operations and

Maintenance Facility; The at-grade alignment will include additional signals, OCS, traction power, and communications

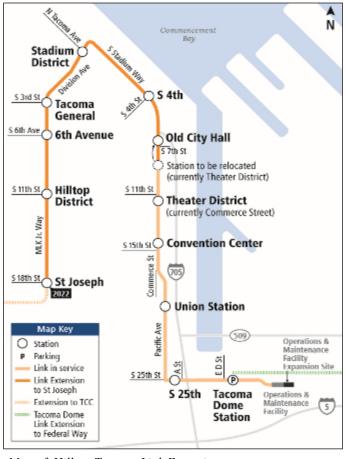
infrastructure.

Phase Construction

Budget \$217.3 Million (Baselined September 2017)

\$252.7 Million (Re-Baselined June 2020)

Schedule Revenue Service: May 2022



Map of Hilltop Tacoma Link Extension.

Key Project Activities

Final Design: Design consultant continued design services during construction scope including review of construction contractor submittals and responded to requests for information.

Construction: October construction activities were performed in accordance with contractor COVID-19 safety training and protocols.

Heading 1: Completed installation of TPSS No. 1 power conduit. Installed rebar, formed and poured footings, wing walls and stem walls, footing drain and backfill and waterproofing and anti-graffiti repellant at TPSS No. 1. Installed (4) OCS foundations between S. 7th and S. 9th on Commerce St. Began installation of OCS poles on Stadium Way.

Heading 2: *Stadium High School:* Completed outbound track slab installation, curb and gutter and poured median at the curve. *Stadium District:* Installed catch basins and manholes on N. 2nd St. Installed and tested waterline at N. 2nd and I St. crossing. Installed OCS foundations on Division Ave. to J St. and installed OCS poles on N. 1st St. and Division Ave. Excavated for TPSS No. 2 foundation and parking area.

Heading 3: Completed storm and water crossing installation at MLK and S. 7th St. Poured outbound track slab from Baker driveway at Tacoma General across S. 9th St. Poured inbound track slab from S. 16th to S. 18th St. Installed OCS poles between 6th Ave. and S. 15th St. Poured TPSS No. 3 footing at S. 8th. Installed conduits, systems vaults and grounding at TPSS No. 4.

OMF Expansion: *Yard*: Installed first lift of HMA at south parking area. Graded west yard for HMA. Poured retaining wall footings and began forming retaining wall. *Interior*: Completed phase two cutover of facility. Completed installation of 1st floor and mezzanine electrical feeders. Began installation of low voltage communications at mezzanine. Began interior finish work including: final paint on 2nd fl.; ceramic tile at bathrooms, sinks at 2nd fl. Corridor; casework and electrical trim throughout.

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Link Light Rail Hilltop Tacoma Link Extension

Project Cost Summary

In September 2017, Sound Transit Board adopted the Hilltop Tacoma Link Extension (HTLE) baseline schedule and budget. In June 2020 the Sound Transit Board approved an increase to the authorized project allocation from \$217.3M to \$252.7M. The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

The T100 construction contract was executed in August 2018. Staff received ST Board approval in December 2019 to add contingency to this contract. Following the risk assessment in April 2020, staff recommended an additional \$35.4M budget for an Estimated Final Cost of \$252.7M of the project. The ST Board approved the recommendation for additional project budget in June 2020.

Approximately \$2.1M was incurred in the October 2020 period. A majority of the expenditures occurred in the Construction Phase and are related to the T100 contract and City of Tacoma Work Orders. Most expenditures to date have been from Administration, Construction, and Final Design.

Cost Summary by Phase

Project Phase	Baseline Budget	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$21.6	\$13.8	\$13.7	\$21.6	\$0.0
Preliminary Engineering	\$5.6	\$5.6	\$5.6	\$5.6	(\$0.0)
Final Design	\$14.1	\$13.2	\$12.5	\$14.1	(\$0.0)
Construction Services	\$12.4	\$8.9	\$7.7	\$12.4	\$0.0
3rd Party Agreements	\$1.5	\$1.3	\$1.0	\$1.5	\$0.0
Construction	\$162.0	\$126.6	\$97.8	\$162.0	\$0.0
Vehicles	\$33.4	\$30.4	\$4.8	\$33.4	\$0.0
ROW	\$2.3	\$2.2	\$1.9	\$2.3	\$0.0
Contingency	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$252.7	\$201.9	\$145.0	\$252.7	\$0.0

Cost Summary by SCC

- coct cummany by coc					
SCC Element	Baseline Budget	Commitment to Date	Incurred to Date	Estimated Final Cost	Adopted Budget vs.
10 Guideway & Track	\$31.0	\$24.2	\$18.7	\$31.0	\$0.0
20 Stations	\$3.5	\$2.7	\$2.1	\$3.5	(\$0.0)
30 Support Facilities	\$41.2	\$32.2	\$24.9	\$41.2	(\$0.0)
40 Sitework & Special Condi-	\$51.7	\$40.5	\$31.3	\$51.8	\$0.1
50 Systems	\$34.6	\$27.0	\$20.9	\$34.6	(\$0.0)
Construction Subtotal (10 - 50)	\$161.93	\$126.6	\$97.8	\$162.0	(\$0.1)
60 Row, Land	\$2.1	\$2.2	\$1.9	\$2.3	\$0.2
70 Vehicles (non-revenue)	\$33.1	\$30.4	\$4.8	\$33.4	\$0.3
80 Professional Services	\$53.7	\$42.8	\$40.5	\$55.1	\$1.4
90 Unallocated Contingency	\$2.0	\$0.0	\$0.0	\$0.0	\$0.0
Total (10 - 90)	\$252.7	\$201.9	\$145.0	\$252.7	\$0.0

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Link Light Rail Hilltop Tacoma Link Extension



Risk Management

The Hilltop Tacoma Link Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It will provide a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility for continuously monitoring project status and associated risks, taking mitigation actions for known risks identified on the risk register, and effectively responding in a timely manner to those risks that pose a significant impact to the project cost or schedule forecast.

The Baseline Risk Assessment was conducted in May 2017 and we conducted a Quantitative Risk Assessment in May 2019. A Recovery Action Workshop was conducted on October 24-25, 2019. An update to the risk model following review of secondary risk mitigations was done and an updated the project's estimate at completion. The team implemented the mitigations for the top risks which are tracked via weekly status updates. The latest Risk Register was updated in October 2020. The next Risk Register update is planned for October. As of the end of October 2020, the current top project risks include:

- Roadway Modifications Curb and gutter City of Tacoma enforcement of new curb and gutter standards in conflict with curb and gutter details in the contract require additional resources (time and labor).
- Roadway Modifications Full depth restoration Full depth restoration required in areas previously called out for grind and overlay.
- Unidentified utilities (Commerce St) under the proposed alignment lead to increased cost and schedule delays for mitigation during construction.
- Unidentified utilities at OMF yard and OMF expansion area lead to increased cost and schedule delays for mitigation during construction.
- Stadium High School curve redesign causes rework to the track slab, rail and adjacent flatwork/roadway restoration.



OMF-Exterior light installation

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Link Light Rail Hilltop Tacoma Link Extension

Contingency Management

Hilltop Tacoma Link Extension was baselined on September 2017 with a total contingency of \$33.8M. Since baselining, there were drawdowns on AC and UAC to address the Procurement of the Tacoma LRV and T100 Construction contracts, Design Services During Construction contract, and various construction change orders. The baseline contingency levels were insufficient and required an additional \$35.4M that was approved by the ST Board in June 2020.

Design Allowance (DA) was established to account for unquantified scope at the time of the cost estimate. DA is at \$0M, as a result of completion of Final Design.

Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period the Total AC was reduced to \$36.1M primarily as a result of change orders for the T100 and HDR DSDC contracts.

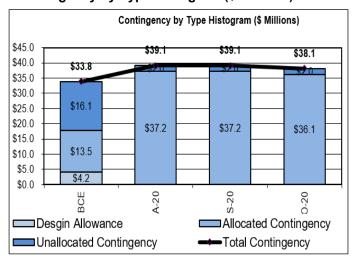
Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties. The UAC balance remained the same as amount as last month at \$2.0M.

Contingency Status (Monthly)

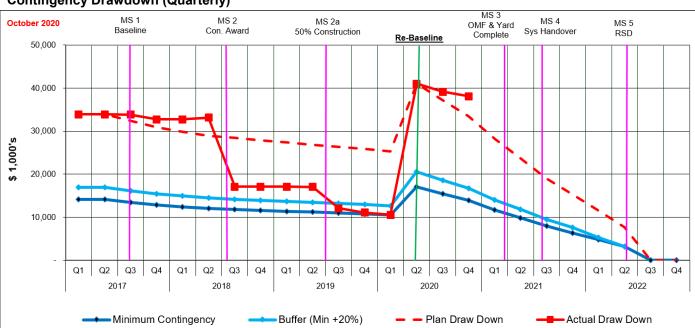
	Base	line	Re-Baseline		
Туре	Amount	% of Total	Amount	% of Work	
Design Allowance	\$4.2	2.2%	\$0.0	0.0%	
Allocated Contingency	\$13.5	6.8%	\$36.1	33.5%	
Unallocated Contingency	\$16.1	8.2%	\$2.0	1.8%	
Total	\$33.8	17.2%	\$38.1	35.4%	

Table figures are shown in millions.

Contingency by Type Histogram (\$ Millions)



Contingency Drawdown (Quarterly)



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Link Light Rail Hilltop Tacoma Link Extension

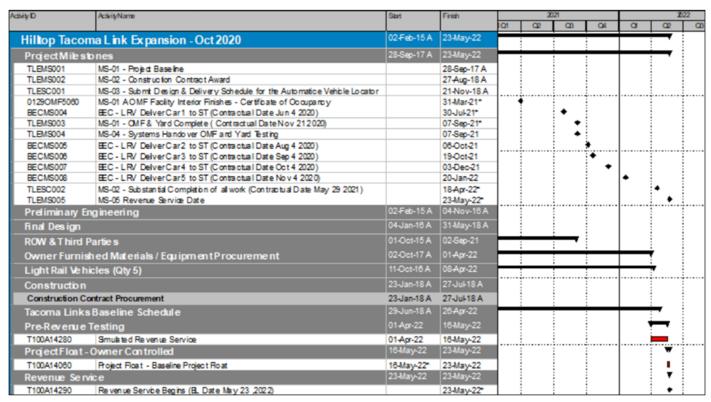


Project Schedule

The Master Schedule has been updated through the end of Oct 2020. Overall physical percent complete is 67%.

LRV: Forecast delivery of the first car arriving in Q3 2021 and last car in Q1 2022. The car builder's schedule forecasts all cars will be delivered in time to support pre-revenue service startup in Q1 2022.

T100: Systems handover of OMF and Mainline testing to start of pre-revenue service in early April 2022. MS#2 Substantial Completion of all work is forecasted to be completed in late April 2022.



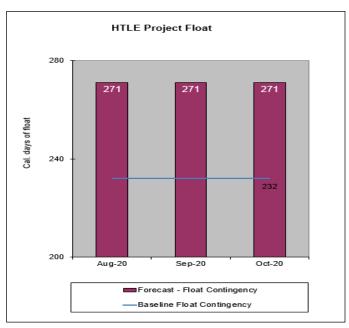
Project Float

Hilltop Tacoma Link Extension was baselined with 232 days of project float in the schedule in order to achieve Revenue Service on May 23, 2022.

RFC #148/ CO #37 was approved and awaiting for a 15 day time extension due to differing site conditions and design issues and is reflected in the current project float drawdown.

 ${
m CO}\,\#35$, #46 and #14 were approved for seven day time extension due to weather delays and is reflected in the current project float drawdown.

RFC #251 was submitted by the Contract and is still in review with ST CM Team with a possible 105 day time extension that is not reflected in the current project float drawdown.

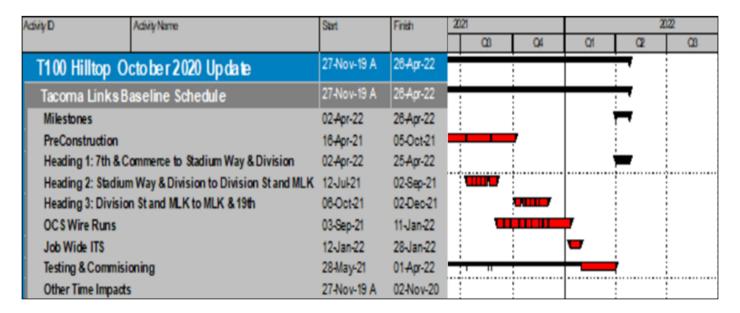


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Link Light Rail Hilltop Tacoma Link Extension

Critical Path Analysis

The analysis for Oct 2020 shows the main critical path runs through the T100 contract with the installation of the TPSSs in Heading 1, Heading 2 and Heading 3 followed by completing OCS wire runs; Job Wide ITS testing and Testing and Commissioning before pre-revenue service begins.



Right-of-Way

The Hilltop Tacoma Link Operations and Maintenance Facility will expand to the east and five new vehicles will be purchased. The Right-of -Way effort for this project involved the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions resulted in owner and tenant residential and commercial relocations. The following table summarizes the right-of-way program status for this period. All project property acquisitions are complete.

Tacoma Link Extension Property Acquisition Status									
	ACQUISIT	RELOCATION							
Total Acquisitions	Board Approved	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date				
20	20	20	20	1	1				

All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of reporting periods.

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Link Light Rail Hilltop Tacoma Link Extension



Community Outreach

- Continued producing and distributing notifications about OCS pole installation along the route, including distributing flyers
 door-to-door to Hilltop residents and mailing information to residents along Stadium Way, N 1st St. and Division Ave.
 Responded to questions and complaints from residents along Stadium Way. One Stadium Way resident plans to file a claim
 and/or lawsuit about an OCS pole blocking his view.
- Collaborated with City of Tacoma Community and Economic Development staff on mitigation for the Fish House Café
 during the full closure of MLK Jr. Way from S. 19th to S. 17th St. Met with the Fish House Café, Speed-E Mart, and
 Hilltop Action Coalition. Reached agreement between the Fish House and Speed-E Mart for Fish House customers to park
 in the store's parking lot during this work. Will provide signage. Brainstormed ideas with HAC on ways the community can
 support the Fish House. Also talked with CHI Franciscan about using their parking lot for Fish House customers.
- Informed businesses about the possibility of construction on Commerce St. during the holiday moratorium and obtained
 their feedback. Visited businesses twice, because the contractor's schedule was different than anticipated and may extend
 into mid-December. Provided general information about construction on Commerce St. that will occur next year.
- Produced and distributed notification to businesses and residents about potholing in the Commerce St. and 9th St. intersection on a weekend (the contractor later cancelled this work), track installation on MLK Jr. Way from S. 9th St. to 6th Ave, track installation on MLK Jr. Way from S. 15th St. to S. 19th St., OCS foundations on E. 25th St., TPSS 2 work starting, TPSS 4 work resuming, and OCS foundations on MLK Jr. Way from Division Ave. to 6th Ave.
- Continued coordinating with MultiCare on construction near Tacoma General Hospital. Held weekly site walks with MultiCare (October 2, 9, 16, 23, 30).
- Informed and updated Stadium High School and residents in the Stadium curve about paving and access. Worked with the apartments on possible alternate parking locations. Some special needs students returned for in-person classes at Stadium High School on October 9.
- Provided information to the residents adjacent to the TPSS 1 about the power connection in the right-of-way/driveway, including the driveway restoration.
- The contractor struck a water service at S. 8th St. and MLK Jr. Way. Contacted businesses and residents adjacent to this area to find out if they had water service. The water line served the Acupuncture Clinic, which lost water and therefore cancelled their appointments for the afternoon. Sent a claims form to this business and responded to residents' questions about dirty water and low water pressure.
- Presented on HTLE outreach and the Loyal to the Local program to Sound Transit's Citizens Oversight Panel, October 21.
- Gave an update on the HTLE project to the Downtown Tacoma Partnership (October 1) and HTLE Stakeholder Outreach Committee (October 22).
- Produced and distributed the weekly construction alert about traffic impacts.
- Coordinated with Communications on the Loyal to the Local campaign, including videos of some businesses along the route and advertising (wrap) on Tacoma Link. Continued posting on the HTLE Facebook group. Took construction photos.
- Responded to questions/complaints about the Stadium curve design issue and cost to taxpayers, no parking signs on N. 1st St., the schedule for N. 1st St., services at a funeral home on MLK Jr. Way, potential illegal activity in unlocked port-apotties in the Stadium curve, the public opening the traffic barriers in the Stadium curve, parking for an apartment building on MLK Jr. Way, and utility work on N. I St. and N. 2nd St.

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Link Light Rail Hilltop Tacoma Link Extension

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

ST staff variance reflects shared design and engineering SME resources across multiple ST projects including South Corridor and Vehicles. Despite the variance in FTE levels project is sufficiently staffed for this period. ST will monitor project needs and adjust FTE levels as needed.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	31.9	24.8	(7.1)
Consultants	19.7	21.5	1.8
TOTAL	51.6	46.3	(5.3)
* An FTE is the equivalent of 208	0 hours. YTD performance FTE hour	s are divided by a monthly factor of 1	73.33.

Sound Transit Board Actions

Board Action	Description	Date
	No Board actions for this period	

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Link Light Rail Hilltop Tacoma Link Extension



Construction Safety

Data/ Measure	October 2020	Year to Date	Project to Date
Recordable Injury/Illness Cases	0	3	9
Days Away From Work Cases	0	1	3
Total Days Away From Work	0	5	36
First Aid Cases	0	9	17
Reported Near Mishaps	0	11	27
Average Number of Employees on Worksite	80	-	-
Total # of Hours (GC & Subs)	14,000	259,949	582,584
OSHA Incident Rates	Month	Year to Date	Project to Date
Recordable Injury Rate	0.00	2.31	3.09
Lost Time Injury (LTI) Rate	0.00	0.77	1.03
Recordable National Average		3.00	
LTI National Average		1.20	
Recordable WA State Average		6.00	
LTI WA State Average		1.90	

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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Link Light Rail Hilltop Tacoma Link Extension

Contract T100 — Hilltop Tacoma Link Extension

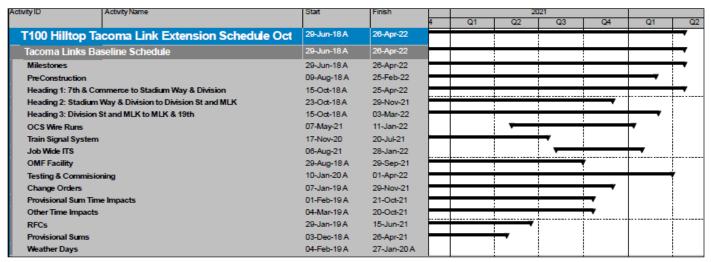
Current Progress

The construction contractor, Walsh Construction Company II, LLC, continues work at the interior and exterior of the OMF and in all three headings along the 2.4 mile extension.

- Heading 1: AT TPSS #1 contractor poured foundation wall, installed footing drain and placed backfill around the TPSS.
- Heading 2A: Poured median curb and gutter and installed asphalt in the outbound travel and parking lanes.
- Heading 2B: Excavated for TPSS #2 Foundation and parking area.
- Heading 3: Install systems vaults, raceways and conduits for TPSS#4, poured OB trackslab across S. 8th Street and OB trackslab crosswalks.
- OMF Yard: Graded west portion of yard and continue forming retaining walls. Connected Y3 Tracks between existing existing track and new OMF.
- OMF Building: Completed stage 2 demolition of existing OMF wall, installed 1st floor and mezzanine electrical feeders, installed shop ladder and electrical trim on the 2nd floor. Completed new OMF power cut over.

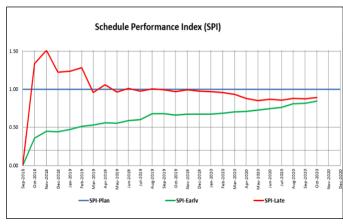
Schedule Summary

The T100 contractor schedule represented is the October 2020 Update Submittal. MS#1 OMF & Yard Substantial Completion is forecasting late September 2021. MS #2 Substantial Completion of All Work is scheduled for April 2022.



Schedule Performance Index

This period, the SPI-Early increased to 0.85 and the SPI–Late slightly increased at 0.89. The early index indicates that the contractor continues to perform behind the plan when compared to the baseline schedule. Based on the current trends there will be schedule impacts to the current T100 contract milestones. Change Orders are in process to address the schedule delays.



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Link Light Rail Hilltop Tacoma Link Extension



Next Period's Activities

- Heading 1: Pour TPSS#1 wing walls. Flush and test water crossing at 7th and Commerce St.
- Heading 2A: Pour the outbound track slab at the Stadium HS curve.
- Heading 2B: Excavate, lay and backfill water main crossing at N. 2nd Street and I Street.
- Heading 3: Install system vaults and raceway from S. 9th Street to S. 8th Street. Continue pouring outbound track slab and building rail.
- OMF Yard: Continue constructing and forming yard track and installing track switch drainage and electrical boxes at insulated joints. Pour Y2 track slab. Grade northeastern portion of the OMF yard, finish installing exterior canopy panels and solar panels.
- OMF Building: Begin stage 3 of removing of existing OMF wall, connecting the new to the existing. Final painting and installing ceramic tile in bathrooms of the 2nd floor.

Closely Monitored Issues

- ST continues to monitor contractor compliance to protocols identified in their COVID-19 safety plan.
- Redesign of curve at Stadium High School delayed the start of work in this area for seven weeks. ST CM assessing impacts to schedule.
- Notifications to the community of upcoming construction activities are ongoing. Business mitigation efforts are underway to support businesses impacted by construction activities. Community Outreach staff are managing this effort with the support of the contractor, City of Tacoma and ST field staff.
- The cutover at 9th and Commerce requires a series of planning workshops which began in January 2020.
 Participants include ST (including Operations), City of Tacoma and the contractor.

Cost Summary

Present Financial Status	Am	nount					
T100 Contractor— Walsh Construction Company							
Original Contract Value	\$	108,295,000					
Change Order Value	\$	8,707,602					
Current Contract Value	\$	117,002,602					
Total Actual Cost (Incurred to Date)	\$	90,193,093					
Percent Complete		67.6%					
Authorized Contingency	\$	37,114,750					
Contingency Drawdown	\$	8,707,602					
Contingency Index		2.9					



Stripping track slab forms

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Link Light Rail Hilltop Tacoma Link Extension

Contract RTA/RP 0014-16 — Tacoma Link Light Rail Vehicle (LRV) Procurement

Current Progress

- BEC facility is operating under an exemption approval which allows Brookville to work at limited operation capacity while maintaining compliance with the COVID mitigation measures set forth by the Commonwealth of Pennsylvania.
- Completed internal design reviews for propulsion, communications, HVAC System and Electrical arrangement.
- Reworking and resubmittal of Contract Data Requirements List (CDRLS) listed under: Sections 2–16 and Section 19.
- Working on Phase 4: Final System Description reviews to be completed by December 2020.

Schedule Summary

- The October 2020 schedule indicates Brookville plans for the remaining Final Design Reviews FDR2 for Cab, Doors, HVAC, Electrical and Communications forecasted to be held in Nov 2020 and FDR3 Dec 2020, FDR4 Feb 2021 and FDR5 Mar 2021.
- Current Forecast continues to show the shipping and delivery of the 1st car arriving to OMF in Tacoma in late July 2021.
 The second car will arrive approximately six weeks later in October 2021. Cars 3-5 are scheduled for delivery one per month from late October through January 2022. Conditional Acceptance testing for all 5 LRVs in Tacoma will be complete by March 2022.

Advity D	ActivityName	Start	Firish			2	021			2	022	
					Q1	œ	Q 3	Q4	Q1	œ	Q	8
BEC OCT 20	20 Update	04-Dec-17 A	12-Jul-22								7	
05945-NTP	Tacoma NTP	04-Dec-17 A										
Kick Off/Sche	dule Creation	17-Apr-19 A	17-Apr-19 A									
Engineering -	- Tacoma	04-Dec-17 A	12-Jul-22	_		:	:				•	
CDRL Submit	tals-Tacoma	01-Jan-18 A	13-Sep-21	_			_					
Ordering of S	Subsystems and Components	02-Nov-20	19-Feb-21		7	· :		:		·		
05945-A4910	Maiterials Procure ment	02-Nov-20	19-Feb-21									
MANUFA CTUR	NING/TESTING	21-Mar-18 A	03-Mar-22	_		:			_			
Component/Sys	stem Type Tests	17-Dec-18 A	10-Mar-21	_								
First Article Insp	pections	21-Mar-18 A	13-Sep-21	-		:	: 					
Hold Point Insp	ections	02-Feb-21	17-Dec-21		·	:	:	: 		:		
Car 1		02-Nov-20	07-Oct-21	-		!	!	7				
Car 2		02-Nov-20	17-Nov-21	-		:						
Car 3		02-Nov-20	13-Dec-21	-		:	:					
Car 4		02-Nov-20	18-Jan-22	-		:	:	:	 			
Car 5		02-Nov-20	03-Mar-22			:	;	:	7	:		
SOUNDTRANS	SIT PAYMENT MILESTONES	02-Jul-18 A	12-Jul-22	_							•	
Brookville Co	ontract Milestones	04-Dec-17 A	12-Jul-22			!	!	!		:	•	

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Link Light Rail Tacoma Dome Link Extension



Project Summary

Scope

Limits Federal Way Transit Center to South

Federal Way, Fife, East Tacoma, and

Tacoma Dome

Alignment The Tacoma Dome Link Extension (TDLE)

expands light rail 9.7 miles from the Federal Way Transit Center to Tacoma. The representative alignment travels adjacent to I-5 with four stations.

Stations South Federal Way, Fife, and East Tacoma

(elevated stations) and Tacoma Dome

(at-grade station)

Systems Signals, traction power, communications

(SCADA), Operations and Maintenance

Facility South (OMF South)

Phase Planning: Alternative Development

Budget \$125.7 Million for Preliminary Engineering

Phase 1—Alternative Development

Schedule Revenue Service: Open for Service date

will depend on Board direction from

realignment process.



Map of Tacoma Dome Link Extension.

Key Project Activities

- Began planning for TDLE Value Engineering workshops.
- Held monthly meeting with Tacoma via virtual conference.
- Briefed property owners for TDLE and OMF South virtually.

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Link Light Rail Tacoma Dome Link Extension

Project Cost Summary

The Tacoma Dome Link Extension and OMF South project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

Project monthly expenditure is slightly more than planned budget. Although PE cost was gradually rising in the first quarter, it is declining moderately after submitting 10% design by the Consultant and bringing the current forecast on track to complete this phase within the authorized budgeted amount.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$26.8	\$9.9	\$9.8	\$26.8	\$0.0
Preliminary Engineering	\$87.1	\$47.4	\$27.8	\$87.1	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$5.8	\$1.6	\$0.6	\$5.8	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$6.0	\$0.4	\$0.0	\$6.0	\$0.0
Total	\$125.7	\$59.3	\$38.2	\$125.7	\$0.0

Cost Summary by SCC

SCC Element	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
50 Systems	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Subtotal (10 - 50)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
60 Row, Land	\$5.0	\$0.4	\$0.0	\$5.0	\$0.0
80 Professional Services	\$110.9	\$58.9	\$38.2	\$110.9	\$0.0
90 Unallocated Contingency	\$9.8	\$0.0	\$0.0	\$9.8	\$0.0
Total (10 - 90)	\$125.7	\$59.3	\$38.2	\$125.7	\$0.0

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Link Light Rail Tacoma Dome Link Extension



Risk Management

The Tacoma Dome Link Extension and OMF South Risk and Contingency Management Plan (RCMP) will establish a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It will provide a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility for continuously monitoring project status and associated risks, taking mitigation actions for known risks identified on the risk register, and effectively responding in a timely manner to those risks that pose a significant impact to the project cost or schedule forecast.

The Q3 2020 risk review workshop was held in September 2020. The following are the top project wide risks:

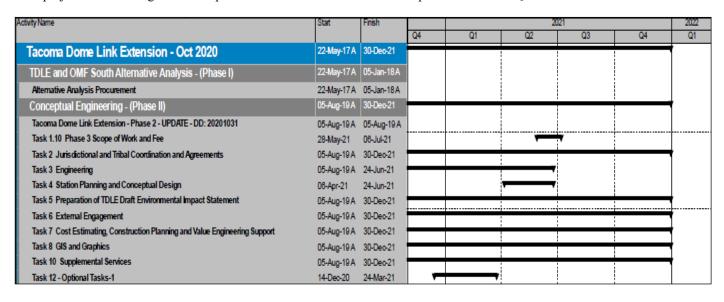
- Reduced revenue as a result of COVID-19 may impact schedule and cost.
- Impacts to partners due to COVID-19 pose potential schedule risk.
- Puyallup Tribe may take longer than planned to provide cultural resources and/or fisheries, storm-water mitigation approvals.
- Contaminated soil and/or groundwater maybe discovered during TDLE and OMF South construction, resulting in increased costs.
- Construction barges on the Puyallup River limiting construction window during fishing period increases schedule and cost.
- ST funding authorization reduced by voters or legislation may result in insufficient local funds, e.g. bill 976.
- Complication to cross the Puyallup River due to cultural, geo-technical, structural, or ROW.
- OMF South may not be built in time for ST3 vehicle schedule.

TDLE Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment. During the realignment process only near-term schedule activities will be reported.

Below is the summary schedule as of October 31, 2020. At this time the project is estimating approximately 11 months of delay to the DEIS being published due to stakeholder reviews which can be associated with COVID-19 related impacts. These delays have the potential to impact the overall project schedule and are being assessed by the ST Board.

The project is forecasting a new completion of the Draft Environmental Impact Statement in Q1 2022.



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Link Light Rail Tacoma Dome Link Extension

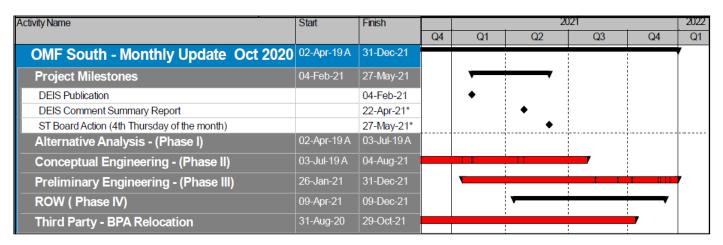
OMF South Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic but at this time the project is still showing an approximately 5 months of delay of the DEIS being published due to stakeholder reviews which can be associated with COVID-19 related impacts.

This project is part of the assessment. During the realignment process only near-term Phase II conceptual engineering schedule activities will be reported.

At the time of this report the October schedule had not been submitted. Below is the summary schedule as of September 30, 2020.

The project will complete the Draft Environmental Impact Statement in Q1 2021 and conceptual engineering in Q3 2021.



Critical Path Analysis

The critical path for the overall TDLE program continues to run through OMF South portion of the project. OMF South must complete conceptual engineering and environmental to produce the Draft EIS. The critical path then continues through the project life cycle of conceptual, preliminary design, final design, permitting, Right-of-Way acquisition and construction.

Activity Name	Start	Finish		2021				2022		
			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
OMF South - Monthly Update Oct 2020	30-Apr-18 A	09-Mar-22				! ! !	! ! !			1
Key Milestones	27-May-21	07-Jan-22			_		1	▼		
Alternative Analysis - (Phase I)	30-Apr-18 A	03-Jul-19 A				! !	 - - -			
Conceptual Engineering - (Phase II)	03-Jul-19 A	04-Aug-21					! ! ! !			
Preliminary Engineering - (Phase III)	10-Feb-21	09-Mar-22		_			!			

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Link Light Rail Tacoma Dome Link Extension



Community Outreach

- TDLE Provided a briefing to the Asia Pacific Cultural Center (Virtual meeting on 10/2)
- TDLE/OMFS Participated in the Thursday Thoughts event hosted by the Federal Way Black Collective (Virtual meeting on 10/2)
- TDLE Provided a briefing to the Puyallup Watershed Initiative (Virtual meeting on 10/8)
- TDLE Provided a briefing to the Tacoma Area Commission on Disabilities (Virtual meeting on 10/9)
- TDLE Participated in the monthly Eastside Collaborative meeting (Virtual meeting on 10/14)
- TDLE Participated in the monthly New Tacoma Neighborhood Council meeting (Virtual meeting on 10/14)
- TDLE Provided a briefing to the Multi-Service Center during their monthly staff meeting (Virtual meeting on 10/15)
- TDLE Provided a briefing to the Transit Oriented Development Advisory Group (Virtual meeting on 10/19)
- TDLE Provided a briefing to the Tacoma Transportation Commission (Virtual meeting on 10/21)
- TDLE Participated in the Fife Library virtual story time event (Virtual meeting on 10/23)
- TDLE Provided a briefing to the Bicycle Pedestrian Technical Advisory group (Virtual meeting on 10/16)
- TDLE Provided a follow-up briefing to the Asia Pacific Cultural Center (Virtual meeting on 10/29)
- TDLE Hosted a listening session for the residents of the Salishan Association (Virtual meeting on 10/29)

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Project has planned 81.3 average FTEs per month for the year 2020. ST staffing is projecting a negative variance as compared to planned FTE, and we are mitigating by utilizing consultants. Other factor causing consultants FTE to be higher than the average was their focus on producing 10% design deliverables for ST review.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	32.6	23.1	(9.5)
Consultants	48.7	47.5	(1.2)
TOTAL	81.3	70.6	(10.7)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Link Light Rail Tacoma Dome Link Extension

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Link Light Rail Link Operations & Maintenance Facility: East



Project Summary

Scope The Link Operations and Maintenance

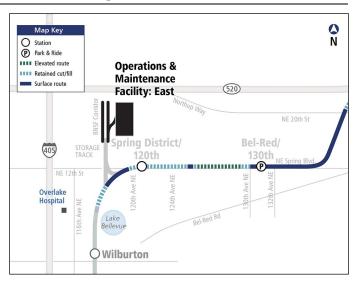
Facility: East (OMF East) project, located in the City of Bellevue, includes a 145,000 SF OMF building plus a 35,000 SF MOW Building that will maintain, store and deploy and expanded light rail fleet, including seven LRV service bays, a LRV wash facility and storage for up to 96

LRVs.

Phase Proceed to Construction

Budget \$449.2 Million (Baselined July 2016)

Schedule Project Completion: December 2020



Map of OMF East Site

Key Project Activities

- OMF East Building: Interior and exterior finishes continued; blackout shades installation, internal painting, tile floor cleaning/polishing, exterior metal paneling, removable guard rail installations, drywall punchlist resolution and crane installation.
- Maintenance of Way (MOW): Interior and exterior finishes continued: exterior metal paneling, ceramic wall tile and shower drain installation, continued internal interior window punchlist and sectional door support installations.
- Site Civil & Track Work: Continued track alignment corrections in ballasted tracks. OCS & Signals punchlist work, inspect
 section insulators, and ground testing. Punchlist work on vaults continued. Pouring concrete collars at drainage structures in
 all track areas.
- Systems: Repaired failed destination board grounds OCS clash of east bound contact wire and messenger wire dead-end.
 Performed hipot and meggar tests on E750 interface cables, TPSS internal puchlist items continued. Pulling traction power cables for E750 interface.
- Commissioning: Commissioning activities have begun at OMF East Building, MOW, and Yard.

Closely Monitored Issues

- Monitoring commissioning and testing in support of project transition to Operations.
- Readiness of Operations to assume occupancy of the facilities.
- Late design changes to accommodate the Type 2 LRVs (Siemens) that impact certain OMF East shop interfaces.
- COVID-19 safety plan and requirements are being enforced and followed.
- Ethernet Switches timely arrival to the site for install has potential to impact System Integration Testing Schedule.
- Submittal of complete and acceptable as-built drawings.

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Link Light Rail Link Operations & Maintenance Facility: East

Project Cost Summary

The Baseline Budget (July 2016) for the OMF East is \$449.2M. The OMF East cost is summarized into two cost tables. The first table is in accordance with Sound Transit's Work Breakdown Structure (WBS) displaying the cost summary by phase. The second table summarizes project cost by SCC, in accordance to the FTA Standard Cost Categories (SCC) format. Both tables show figures in millions.

The Estimated Final Costs (EFC) continues to be projected at approximately \$449.2M. This period's project's expenditure topped out at about \$2.9M. The total project cost incurred increased from approximately \$356.3M to \$359.2M. The primary cost drivers during this period on the OMF East project comes from the design build (construction) phase at \$2.2M or roughly 56% of the total monthly expenditures. The next cost driver in this period pertained to Construction Services expenditures at about \$376K.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$17.6	\$17.6	\$8.8	\$8.6	\$17.6	\$0.0
Preliminary Engineering	\$9.5	\$9.5	\$9.0	\$8.7	\$9.5	\$0.0
Final Design	\$0.4	\$0.4	\$0.0	\$0.0	\$0.4	\$0.0
Construction Services	\$19.3	\$19.3	\$17.5	\$14.7	\$19.3	\$0.0
3rd Party Agreements	\$3.1	\$3.1	\$0.3	\$0.1	\$3.1	\$0.0
Construction	\$264.8	\$264.8	\$229.7	\$224.6	\$264.8	\$0.0
ROW	\$134.5	\$134.5	\$102.7	\$102.6	\$134.5	\$0.0
Total	\$449.2	\$449.2	\$368.0	\$359.2	\$449.2	\$0.0

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$2.6	\$4.4	\$4.2	\$4.0	\$4.2	\$0.2
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
30 Support Facilities: Yard, Shop	\$140.1	\$136.1	\$128.2	\$129.2	\$145.0	-\$9.0
40 Sitework & Special Conditions	\$43.6	\$48.5	\$41.2	\$37.7	\$43.6	\$4.9
50 Systems	\$43.0	\$41.6	\$39.7	\$37.7	\$39.5	\$2.0
Construction Subtotal (10 - 50)	\$229.3	\$230.6	\$213.2	\$208.7	\$232.4	-\$1.8
60 ROW, Land, Improvements	\$134.5	\$134.5	\$102.7	\$102.6	\$134.5	\$0.0
70 Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
80 Professional Services	\$71.6	\$70.3	\$52.1	\$48.0	\$68.5	\$1.8
90 Unallocated Contingency	\$13.8	\$13.8	\$0.0	\$0.0	\$13.8	\$0.0
Total (10 - 90)	\$449.2	\$449.2	\$368.0	\$359.2	\$449.2	\$0.0

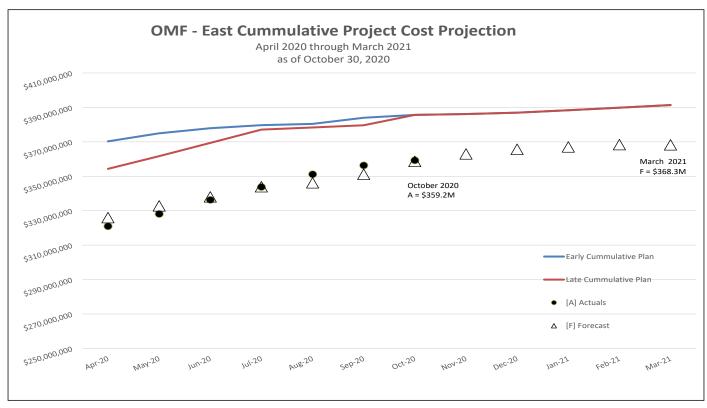
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Link Light Rail Link Operations & Maintenance Facility: East



Project Cash Flow Projection

The OMF East cost projection is trending late this period but anticipates to pick up. Total project expenditure incurred to date at approximated \$359.2M with Construction Phase at about 62% and Right-of-Way (ROW) phase at 29%. The project expenditure continues to trend a projection of \$368.3M by March of 2021 which is below the lower bounds of the late planned expenditures as shown in the graph below. The probability of the project to finish under the project budget of \$449.2M is high giving reason to the plateauing of the forecast curve shown below. That said, there continues to be considerable risk and uncertainties ahead of the project, particularly due to the COVID-19 pandemic, that may impacts the cost at completion.



Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility for continuously monitoring project status and associated risks.

The project has reached Risk Mitigation Milestone (RMS) 3, the completion of building enclosure and performed a Quantitative Risk Assessment (QRA). The QRA assessed the current risk profile and predicts with a high probability the project to complete on schedule and within budget. The current top actively managed risk areas are as follows:

- Design: Late changes made to scope by 3rd Parties and Operations impact the project at this stage.
- Scope: Scope Interfaces with E750 Systems when ELE has integrate OMF East with OMF Central through East Link.
- Construction: COVID-19 virus pandemic is a fluid situation and the impacts are difficult to assess at this stage.
- Start Up: As the project continues progress, the need coordination for testing, acceptance and commissioning with ST Operations is critical. The virus pandemic complicates the preparation and the execution of this phase of the project scope.

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Link Light Rail Link Operations & Maintenance Facility: East

Contingency Management

The Link Operations and Maintenance Facility: East was baselined and approved by Sound Transit Board in July 2016 with a total contingency of \$93.2M. The Project's starting contingency balance as of the Notice to Proceed for Construction was \$71.6M reflecting the inclusion of the Design Allowance in the Design Builder contract amount. In this period, change orders were related to various construction scope. The current contingency balance at the end of this period is approximately \$63.4M (previous period at \$64.2M).

Design Allowance (DA): N/A

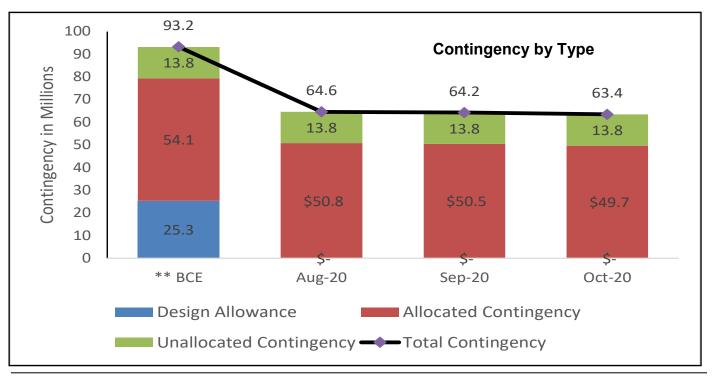
Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. Allocated contingency balance at the end of this period continues to be stable at \$49.7M (the previous period at \$50.5M). The approximately contingency draw were attributed to normal construction changes.

Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties. The baseline UAC amount of \$13.8M reflects no changes this period.

Contingency Status

	Base	eline	Current		
Contingency Type	Amount	% of Total	Amount	% of Work Remaining	
Design Allowance	\$ 25.3	5.6%	\$ -	0.0%	
Allocated Contingency	\$ 54.1	12.0%	\$ 49.7	55.2%	
Unallocated Contingency	\$ 13.8	3.1%	\$ 13.8	15.3%	
Total	\$ 93.2	20.7%	\$ 63.4	70.5%	

Table figures are shown in millions.



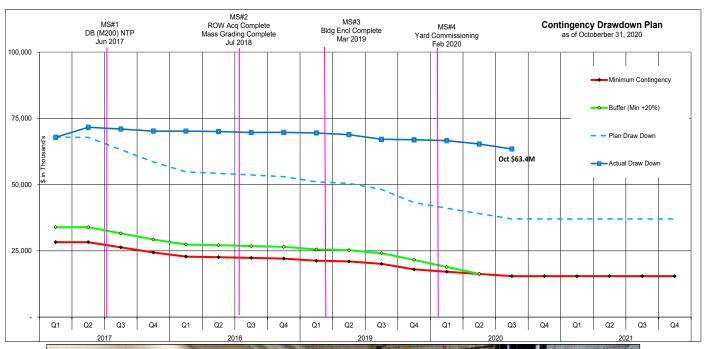
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Link Light Rail Link Operations & Maintenance Facility: East



Contingency Drawdown

At the end of the Q3 2020, OMF East Project's total contingency drawdown plan is trending positively. Total contingencies balance is at approximate \$63.4M (previously quarter at \$64.2M) and remains above all the baseline draw down projection and well above both the minimum contingency and the buffered (minimum plus 20%) contingency levels. The next update will be at end of the Q4 2020. Risk Mitigation Milestone #3 was revised and met in Q4 2019.





In-Floor Lift testing as part of commissioning of OMF

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Link Light Rail Link Operations & Maintenance Facility: East

Project Schedule

The schedule for OMF East is now entirely within the M200 contract, which is presented below. Critical work has been completed and commissioning and testing are underway. ST requested two changes earlier this year, which added some design, procurement, and construction that will likely push out project completion to late December. The contractor has provided a schedule (shown below) which shows how all remaining commissioning and testing can be completed in parallel with these design changes to preserve Sound Transit's baselined completion target for the project.

Activity Name	Start	Finish		
			Q4	Q1
Sound Transit	19-Jun-17 A	26-Mar-21		•
Sound Transit 2	19-Jun-17 A	26-Mar-21		-
East Corridor	19-Jun-17 A	26-Mar-21		•
Operating Facilities - East	19-Jun-17 A	26-Mar-21		
LINK Operations & Maintenance Facility: East	19-Jun-17 A	26-Mar-21		
Link OMFE - Construction	19-Jun-17 A	26-Mar-21		
M200 - Link OMFE - Design/Build Contract	19-Jun-17 A	26-Mar-21		
M200 Construction	19-Jun-17 A	26-Mar-21		
Preconstruction & Administration	19-Jun-17 A	23-Dec-20		
Milestones	19-Jun-17 A	23-Dec-20		
Contractual Milestones	19-Jun-17 A	23-Dec-20		
Milestone 1 - Substantial Completion	19-Jun-17 A	23-Dec-20		
Notice to Proceed (6/19/2017)	19-Jun-17 A			
Milestone 1 Extension - RFC 049 (Mezzanine Changes)	07-Oct-20 A	23-Dec-20		
Milestone 1 - Substantial - Scheduled		23-Dec-20	 	
Milestone 1 - Contractual (1196 CD after NTP +9 CO 038)		23-Dec-20*	•	
Design	19-Jun-17 A	31-Mar-20 A		
Submittals & Procurement	12-Dec-17 A	23-Dec-20		
Construction	19-Jun-17 A	26-Mar-21		
Mobilization & Early Sitework	19-Jun-17 A	22-Oct-20 A		
Maintenance & Shop Building	23-Jul-18 A	20-Nov-20		
Maintenance of Way Building	22-Jan-19A	02-Oct-20 A	▼	
Ancillary Structures	08-Jul-19A	18-Nov-20		
Trackwork	13-Jul-18 A	25-Nov-20		
Site Surfacing & Finishes	01-Nov-18 A	02-Oct-20 A	▼	
Project Closeout	01-Apr-18A	26-Mar-21		
Link OMFE - Project Completion	23-Dec-20	23-Dec-20	▼	
Link OMFE - Project Closeout	23-Dec-20	23-Dec-20	 	
Project Float	23-Dec-20	23-Dec-20	!	
Project Completion (Baseline 23-Dec-20)		23-Dec-20*	<u> </u>	

Critical Path Analysis

The critical path this month runs through the mezzanine plate and fall gate change order work, and then through final commissioning and LEED certification.

ivity Name	Start	Finish		
			Q4	Q1
Link OMFE - Construction	26-Oct-20 A	31-Mar-21		
M200 Construction	26-Oct-20 A	31-Mar-21		
Preconstruction & Administration	27-Mar-21	31-Mar-21		
Milestones	27-Mar-21	31-Mar-21		
Two Year Energy Performance Guarantee	27-Mar-21	31-Mar-21		
LEED Certification Performance Guarantee	27-Mar-21	31-Mar-21		
Construction	18-Dec-20	26-Mar-21		
Project Closeout	18-Dec-20	26-Mar-21		
Commissioning	18-Dec-20	26-Mar-21		
Commissioning Administration	06-Jan-21	26-Mar-21		
OMF Building	18-Dec-20	05-Jan-21		
MOW Building	18-Dec-20	05-Jan-21		
Change Orders	26-Oct-20 A	17-Dec-20		
CO TBD - Mezzanine Plate and Gate Changes	26-Oct-20 A	17-Dec-20		
CNRFP 047 Mezzanine Plates	26-Oct-20 A	17-Dec-20		
Link OMFE - Project Completion				

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Link Light Rail Link Operations & Maintenance Facility: East



Community Outreach

Ongoing engagement with the public on potential construction impacts to the neighborhood.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average is the monthly annualized average of 12 months; whereas the YTD monthly average only reflects actuals through October of 2020. Utilization of consultants are dependent on the level of effort and the sequence of construction events, the monthly average should trend closer to the plan as the year comes to a close. That said, with COVID-19 pandemic's fluid situation, it is hard to predict how the annual plan will unfold accordingly for the remainder of the year.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	13.2	9.7	(3.5)
Consultants	12.3	19.0	6.7
TOTAL	25.5	28.7	3.2

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.



OCS Pantograph security check as part of Systems Integration Testing processes

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Link Light Rail Link Operations & Maintenance Facility: East

Sound Transit Board Actions

Board Action	Description	Date
	None this period.	

Construction Safety

Data/ Measure	October 2020	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	3	9	
Days Away From Work Cases	0	1	3	
Total Days Away From Work	0	5	36	
First Aid Cases	0	9	17	
Reported Near Mishaps	0	11	27	
Average Number of Employees on Worksite	80	-	-	
Total # of Hours (GC & Subs)	14,000	259,949	582,584	
OSHA Incident Rates	Month	Year to Date	Project to Date	
Recordable Injury Rate	0.00	2.31	3.09	
LTI Rate	0.00	0.77	1.03	
Recordable National Average		3.00		
LTI National Average	1.20			
Recordable WA State Average	6.00			
LTI WA State Average		1.90		

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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Link Light Rail Link Operations & Maintenance Facility: East



Contract M200 - OMF East Design Build

Current Progress

Design: Hensel Phelps (HP) design administration for supporting construction activities.

Construction:

- *OMF East Building*: Interior and exterior finishes continued; blackout shades installation, internal painting, tile floor cleaning/polishing, exterior metal paneling, removable guard rail installations, drywall punch list resolution and crane installation.
- *Maintenance of Way (MOW)*: Interior and exterior finishes continued: exterior metal paneling, ceramic wall tile and shower drain installation, continued internal interior window punch list and sectional door support installations.
- Systems: Repaired failed destination board grounds OCS clash of east bound contact wire and messenger wire dead-end. TPSS internal puchlist items continued. Pulling traction power cables for E750 interface.
- Site Civil & Track Work: Continued track alignment corrections in ballasted tracks. OCS & Signals punch list work, inspect section insulators, and ground testing. Punch list work on vaults continued. Pouring concrete collars at drainage structures in all track areas.

Next Period's Activities

In response to COVID-19, the contractor continues to enforce approved COVID safety work plan.

- OMF East Building: External and internal finishes continue.
- MOW Building: External and internal finishes continue.
- Systems: Signals testing and punch list items.
- Site Civil & Track Work: Track survey, track alignment corrections, and punch list items.

Closely Monitored Issues

- COVID-19 safety plan and requirements are being enforced and followed.
- Monitoring commissioning and testing in support of project transition to Operations.
- Submittal of complete and acceptable as-built drawings.

Cost Summary

Present Financial Status	Amount				
M200 Contractor – Hensel Phelps					
Original Contract Value	\$218,912,000				
Change Order Value	\$8,029,706				
Current Contract Value	\$226,941,706				
Total Actual Cost (Incurred to Date)	\$222,276,404				
Percent Complete	97.77%				
Authorized Contingency	\$21,891,200				
Contingency Drawdown	\$8,029,706				
*Contingency Index	2.5				

^{*}Excludes Betterments



Track Work Welding Operations.

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Link Light Rail Link Operations & Maintenance Facility: East

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Link Light Rail Light Rail Vehicle Fleet Expansion



Project Summary

Scope Design, manufacturing, assembly, inspec-

tion, testing and delivery of 152 low floor light rail vehicles for service requirements of Northgate, East Link and Lynnwood

Link Extensions.

Phase Manufacturing

Budget \$740.7 Million (Baseline September 2015,

Amended April 2017)

Schedule Project Completion: 3Q 2024



Siemen's LRV on test track.

Key Project Activities

- Progressed safety certifiable items, critical Field Modification Items (FMI), operations requirements and ongoing qualification testing prior to the Conditionally Acceptance (CA) of the 1st Light Rail Vehicle (LRV) is planned to occur in the 1st Quarter 2021.
- Car # 201, 258, 259 & 260 were delivered in October 2020. Car 204 was returned to Sacramento, CA for cab mask replacement.
- Continued final assembly and fabrication of car shell at Siemens' Sacramento facilities.
- Ongoing operational conformance checks prior to the first LRV ready for revenue service are 89% completed.
- Held Sound Transit Siemens special tools and spare parts coordination meetings.
- Held October 2020's monthly Safety & Security Certification Review Subcommittee (SSCRS) meeting.



Delivery of Car 259 at OMF Central, Seattle, WA



Car 265 on Test Pit at Sacramento, CA

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Link Light Rail Light Rail Vehicle Fleet Expansion

Closely Monitored Issues

- Operation and Maintenance Facility (OMF) Central yard LRV storage capacity continues to be an issue. The timeframe for this concern remained in the 1st Quarter of 2021; LRVs delivery and transportation plan between OMF Central and OMF East has been established and closely monitor.
- Reducing number of documents on Certifiable Items List (CIL) pending approval: Design (7.25%), Qualification (56%).
- Manufacturer has reported supply chain interruptions impacting implementation of FMIs and submitted a general notice for COVID-19 pandemic impacts. Weekly production meeting with Siemens held to monitor progress.

Project Cost Summary

The LRV Fleet Expansion Project has an approved baseline budget of \$740.7M. The project cost is summarized into two cost tables. The first table is in accordance with Sound Transit's Work Breakdown Structure (WBS) displaying the cost summary by phase. The second table summarizes project cost by SCC, in accordance to the FTA Standard Cost Categories (SCC) format. Both tables show figures in millions.

The project expenditure incurred to date is approximately \$245.1M to which a majority of the cost is attributed to the vehicles phase of \$233.3M. The current period expenditure is \$4.5M mainly from light rail vehicles of \$4.1M comprised mainly of vehicles production milestone payments to Siemens. The other incurred cost was mostly attributed from engineering and inspection of \$148.1K and staff costs of \$166.2K.

Cost Summary by Phase

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$9.6	\$9.6	\$4.0	\$3.8	\$9.6	\$0.0
Construction Services	\$18.0	\$18.0	\$15.1	\$7.9	\$18.0	\$0.0
Vehicles	\$713.1	\$713.1	\$652.7	\$233.4	\$713.1	\$0.0
Total	\$740.7	\$740.7	\$671.8	\$245.1	\$740.7	\$0.0

Cost Summary by SCC

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Construction Subtotal (SCC 10 - 50)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
60 ROW, Land, Existing	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
70 Vehicles	\$706.3	\$706.3	\$666.0	\$241.0	\$704.5	\$1.8
80 Professional Services	\$8.2	\$8.2	\$5.8	\$4.1	\$10.0	(\$1.8)
90 Contingency	\$26.2	\$26.2	\$0.0	\$0.0	\$26.2	\$0.0
Capital Total (SCC 10 - 90)	\$740.7	\$740.7	\$671.8	\$245.1	\$740.7	\$0.0

^{*}Totals may not equal column sums due to rounding of line entries.

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Link Light Rail Light Rail Vehicle Fleet Expansion



Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitoring project status and associated risks.

The project's qualitative risk register reflects Q4 2019. The 2020 update is being coordinated. There are no changes to the current top risk as listed below based on the last update:

- Siemens slower than expected Safety Certification Process could possibly delays to revenue service dates on all programs.
- Special tools and test equipment must be identified, procured, delivered and commissioned prior to LRV conditional acceptance.
- Familiarization Training with local emergency responders has not yet started and the time table for completion.
- Siemens limited staff and equipment supporting testing and commissioning is a constrain on qualification testing and safety certification will remain open until complete.
- Automatic Train Protection interface between ST1 vehicle ATP system and new ST2 vehicle ATP causing potential interface
 with wayside signal and on-board systems under investigation. Qualification test postponed until completion of
 investigation.
- COVID-19 remains a fluid situation and disruption to Siemen's supply chain and assembly plant.

Contingency Management

The project's budget was baselined in September 2015 and was amended in April 2016 to exercise the option LRV contained a total of \$78.0M of Total Contingency. The project's Total Contingency is currently at \$64.3M or about 14.9% of remaining work in the project.

Design Allowance (DA) was established to account for unquantified scope at the time of the cost estimate. This project contains \$0 design allowance.

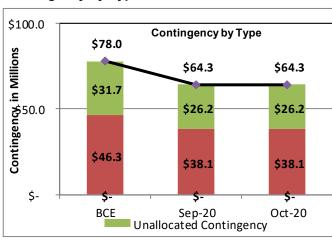
Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. The project baseline's allocated contingency was \$46.3M. The AC for October remained unchanged at \$38.1M.

Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties. The UAC for October remained unchanged at \$26.2M.

Contingency Status (Monthly)

Contingency	Base	eline	Current		
Status	Amount % of Total Budget		Remaining Amount	% of Work Remaining	
Design Allowance	\$ -	0.0%	\$ -	0.0%	
Allocated Contingency	\$ 46.3	6.4%	\$ 38.1	8.8%	
Unallocated Contingency	\$ 31.7	4.3%	\$ 26.2	6.1%	
Total	\$78.0	10.7%	\$ 64.3	14.9%	

Contingency by Type

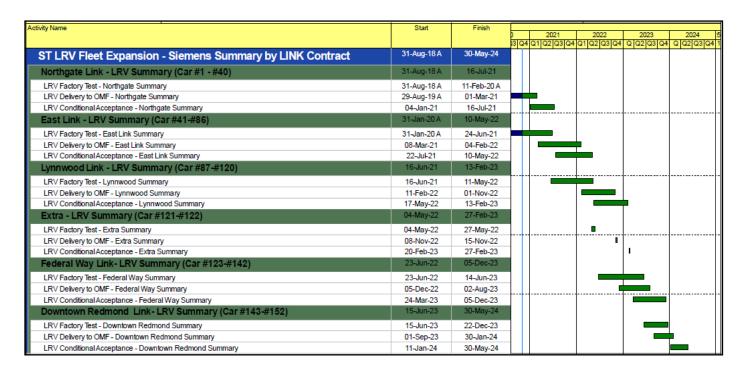


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Link Light Rail Light Rail Vehicle Fleet Expansion

Project Schedule

The schedule below is a summary schedule identifying the factory testing, delivery and conditional acceptance testing of Light Rail Vehicles for each project as reported from the Siemen's monthly schedule update. As of October 2020, all vehicles are expected to be available for Pre-Revenue Service testing at each of the projects identified below but Northgate Link is also seeing schedule pressure as conditional acceptance complete for the 40th car slips into July of 2021. Northgate Link Pre-Revenue Service's also now trending towards an April 2021 start. A recovery schedule has been presented by Siemens to address conditional acceptance delays and is currently being implemented and monitored closely



LRV Delivery and Testing Progress as of October 31, 2020						
LRV status	Received in Seattle	Testing in progress (Seattle)	Conditionally Accepted	Entered Revenue Service		
Planned	48	48	35	35		
Actual	25	25	0	0		

Critical Path Analysis

The critical path is completing the on-site Vehicle Performance Qualification Test and Acceptance Testing and Burn-In of all LRVS that have been delivered to Sound Transit site. Car 214 is the main test vehicle and Car 204 is needed for test requiring multiple cars.

Delivery and Conditional Acceptance Testing of all 40 light rail vehicles required for Northgate Link is closely monitored to support the Pre-Revenue simulation period. The planned deliveries, commissioning and testing of light rail vehicles are anticipated to be complete by September 2024. As well as on time for the start of Pre-Revenue Service for each of the new extension lines: East Link, Lynnwood Link, Federal Way Link and Downtown Redmond Link.

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Link Light Rail Light Rail Vehicle Fleet Expansion



Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average is the monthly annualized average of 12 months; whereas the YTD monthly average only reflects actuals through the end of October 2020. The variance between the planned ST Staff and the YTD Actual ST Staff is 3.4. This variance largely continues to be due to the cumulative fractions of estimated FTEs spread across various departments and cannot be attributed to any one main variance driver. That said, with COVID-19 pandemic's fluid situation, it is hard to predict how the annual plan will unfold.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	9.5	6.1	(3.4)
Consultants	7.8	8.6	0.8
TOTAL	17.3	14.7	(2.6)

^{*} An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None this period.	

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Progress Report **Sounder Program**



Sounder trains travel between Lakewood and Seattle with regular runs weekday morning and afternoons. Sounder also serves select major weekend events such as Mariners, Sounders, and Seahawk games.

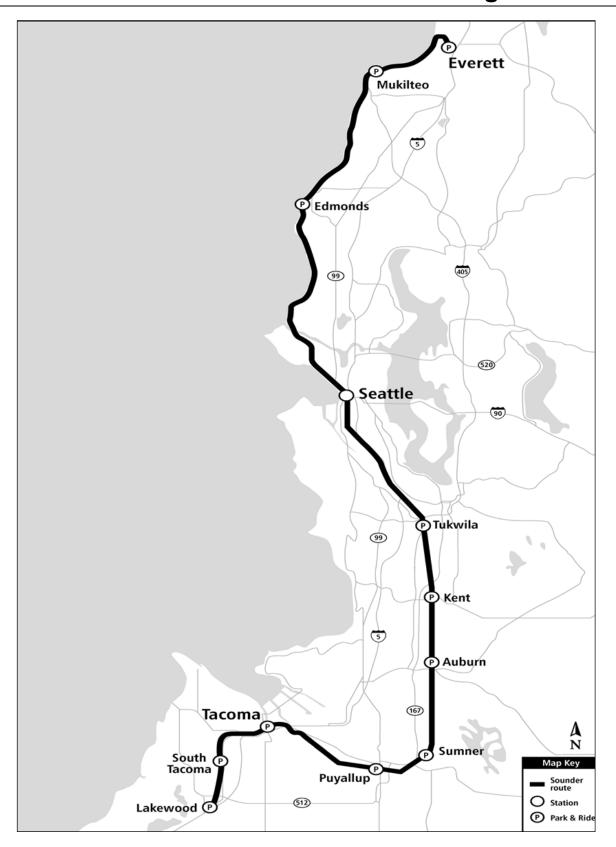
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Prepared by Project Control & VE | Design, Engineering & Construction Management

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Sounder Commuter Rail Routes

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

Edmonds and Mukilteo Stations Parking & Access Improvements: The Edmonds and Mukilteo Stations Parking and Access Improvements Project will provide parking and access improvements to the Edmonds and Mukilteo Sounder Stations. A variety of access improvements will be considered for each station including bicycle and pedestrian access, pick up/drop off areas, transit integration, and parking.

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

Puyallup Station Access Improvements: Project includes environmental documentation, design and construction of station access improvements at or around Puyallup Station. The purpose of this project is to accommodate and encourage future demand for Sounder 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 Capacity Expansion: This project establishes a program of capital elements that will improve South Sounder access, capacity, and services in response to increase in demand. Program elements could include platform extensions, track and signal upgrades and other related infrastructure to facilitate additional capacity, and access improvements for pedestrians, bicyclists, buses, and private vehicles, prioritized per Sound Transit's System Access Policy. The elements included in this representative project will be refined during future phases of project development and are subject to change.

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

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Program Budget

The Authorized Project Allocation reflects the budget for each project through the approved project phase. As projects advance through design into construction the budget will be amended to reflect Board approved actions.

SOUNDER	Authorized Allocation	Commitment To Date	Incurred to Date	Forecast to Complete	Estimated Final Cost	Authorized Allocation vs EFC
AUBURN STATION ACCESS IMPRVMNT	\$11.4	\$4.6	\$4.0	\$6.8	\$11.4	\$0.0
EDMONDS & MUKILTEO STN P&A IMP	\$2.5	\$0.9	\$0.9	\$1.6	\$2.5	\$0.0
KENT STATION ACCESS IMPRVMNTS	\$15.6	\$5.1	\$4.3	\$10.5	\$15.6	\$0.0
PUYALLUP STATION IMPROVEMENTS	\$79.1	\$69.0	\$24.8	\$10.1	\$79.1	\$0.0
SOUNDER MAINTENANCE BASE	\$12.9	\$10.6	\$9.7	\$2.4	\$12.9	\$0.0
SOUNDER SOUTH CAPACITY EXPN	\$3.6	\$3.3	\$2.5	\$0.2	\$3.6	\$0.0
SUMNER STATION IMPROVEMENTS	\$17.8	\$16.0	\$10.6	\$1.8	\$17.8	\$0.0
Total SOUNDER	\$142.9	\$109.6	\$56.8	\$33.4	\$142.9	\$0.0

Figures are shown in millions

Program Schedule

Schedule for select major Sounder projects are summarized below. Projects in the realignment process are not shown.

Project Name	Start	Finish	2020				7.5	2021 2			
			Q	Q	Q	Q	Q	Q	QC	Q	Q
	01-May-15	12-Apr-22									
♦ Sound Transit 2	01-May-15	12-Apr-22									
♦ South Corridor	01-May-15	12-Apr-22				8					
Sounder Commuter Rail - South	01-May-15	12-Apr-22									
♦ Station Access - South	01-May-15	12-Apr-22									
S300017-Puyallup Station Access Improvements - DB	01-May-15	12-Apr-22	E								

Construction Safety

Construction and System Safety provide systematic and comprehensive oversight, resources, and guidance to eliminate recognized hazards, promote a safety culture and achieve an integrated system of compliance and continuous improvement of safety on both construction projects and transit system elements. Agency-led active construction contracts under the Sounder program are as follows:

None to report.

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Sounder Commuter Rail Auburn Station Parking & Access Improvements

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Project Summary

Scope The purpose of the project is to improve

parking and access to the existing Auburn Sounder Station for Sounder riders, bicyclist, bus riders, and drivers.

Project includes alternatives identification, screening, environmental documentation, design, and construction of station parking and access improvements at or around

Auburn Station.

Phase Conceptual Engineering and Environmental

Review

Budget \$11.4 Million

Schedule Open for Service date will depend on ST

Board direction from realignment process.



Improving access to Sounder Auburn Station

Key Project Activities

- Project team continued development of an agreement to provide funding to the City of Auburn for traffic mitigation and continues to address City's comments on the conceptual engineering design.
- Project team also continued development of an agreement to provide funding to WSDOT for traffic mitigation.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditures increased by \$66K. The incurred cost increased from \$3.92M to \$3.99M. The majority of this period's costs is attributed to staff costs, conceptual engineering work and right-of-way activities.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$1.6	\$1.4	\$1.4	\$1.6	\$0.0
Preliminary Engineering	\$3.4	\$2.8	\$2.6	\$3.4	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$2.0	\$0.0	\$0.0	\$2.0	\$0.0
3rd Party Agreements	\$0.6	\$0.0	\$0.0	\$0.6	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$3.8	\$0.4	\$0.1	\$3.8	\$0.0
Total	\$11.4	\$4.6	\$4.0	\$11.4	\$0.0

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Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

- The project team will develop the Risk and Contingency Management Plan (RCMP) during Phase III—Preliminary Engineering phase of the project. The project team plans to conduct a risk assessment workshop to identify all the potential risks during design and construction in 2021.
- The project team reviewed and updated the risk register in September 2020. The team will review and revise the register on a quarterly basis, the next risk register update is scheduled for December 2020.

Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Open For Service Date will depend on Board direction from realignment process.

The project is nearing completion of Phase II—Conceptual Engineering and Environmental activities. The project completed the environmental assessment in Q1 2020.

Project team issued SEPA Checklist and SEPA Determination of Non-Significance (DNS) with conditions for public comment January 29, 2020 and the FTA approved the NEPA Documented Categorical Exclusion (DCE) in February 2020.

The Sound Transit Board action for "Select the Project to be Built" occurred in April 2020 with the Sound Transit Phase Gate 3: Enter Design and Construction currently on hold. The project's Threat Vulnerability Assessment (TVA) was performed in July 2020. Phase Gate 3—Enter Design & Construction, is currently planned for December 2020.

During the September ST Board meeting, approval was received to un-pause a portion of the project to move forward with a change order (approved by the Board in February 2020) to current Design-Build Project Management (DBPM) team HNTB to prepare an analysis of potential multi-Sounder South Commuter Rail Station Parking and Access Improvement projects contract packaging options. This may potentially reduce overall project final design and construction costs as well help develop Project Requirements for the Design-Build Procurement RFQ and RFP. This will help project continue to pursue "shovel ready." Approval to issue Design-Build Procurement RFQ and Baselining will not occur until after Project Requirements are developed and ST Board realignment decisions are made regarding the project. Further ST Board realignment decisions are anticipated as part of the July 2021 ST Board Realignment.

Activity ID Activity Name	Start	Finish	2019 Q1 Q2 Q3 Q4	2020 Q1 Q2 Q3 Q4	2021 Q1 Q2 Q3 Q4
Sound Transit	24-Feb-16 A	28-Sep-25			
Sound Transit 2	24-Feb-16A	28-Sep-25	-		
South Corridor	24-Feb-16 A	28-Sep-25			
S300040 - Aubum Station Access Improvements - DB M	24-Feb-16 A	28-Sep-25			
Altemative Analysis (Phase I)	24-Feb-16A	15-Nov-17 A			
Conceptual Engineering (Phase II)	22-Mar-18 A	19-May-21		1	
Preliminary Engineering (Phase III)	13-Dec-18 A	23-Sep-21			

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Community Outreach

• We are monitoring outreach needs for the project and are available to answer any questions.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project work in October was focused on advancing the development of a funding agreement for traffic mitigation with the City of Auburn and with WSDOT.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.6	2.2	(3.4)
Consultants	2.3	0.7	(1.6)
TOTAL	7.9	2.9	(5.0)
	·		

* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Project Summary

Scope

The purpose of the project is to provide parking and access improvements to the Edmonds and Mukilteo Sounder Stations, in order to increase ridership on Sounder North.

A variety of access improvements will be considered for each station including bicycle and pedestrian improvements, transit connections, vehicle access, parking and pickup/drop-off areas.

Phase Planning—Phase 1: Project Definition and

Screening

Budget \$2.5 Million (Phase 1)

Schedule Open for Service date will depend on ST

Board direction from realignment process.



Sounder Mukilteo Station Access Improvements

Key Project Activities

- Finalized Phase 1 documents and shared with internal team, city partners and Community Transit for review.
- Conducting review to identify potential in-house project development activities within current budget resources.
- Next steps, including budget amendment to fund Phase 2 work and amendment of the consultant contract, are pending Board direction on realignment.

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Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditures increased by \$6.7K due to ST staff costs.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$1.0	\$0.4	\$0.4	\$1.0	\$0.0
Preliminary Engineering	\$1.3	\$0.5	\$0.5	\$1.3	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
Total	\$2.5	\$0.9	\$0.9	\$2.5	\$0.0

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks. The following are the top project wide risks:

- Challenge in allocating the \$40M project budget between two station areas. This is a decision the ST Board of Directors will make, likely during Phase 2, of the project.
- City partners have expressed interest in more parking, and/or more expensive parking, than appears affordable within the \$40M project budget.

Community Outreach

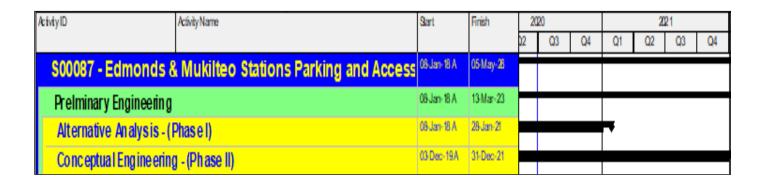
 Community outreach needs for the project will be developed and implemented consistent with the Board's realignment direction.

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Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities through 2021 will be reported. As a result dates including Revenue Service Date will depend on Board direction from realignment process.



Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is an annual projection. The variance is explained by the fact that advance Phase 2 is on pause, waiting for realignment decision summer 2021.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance		
ST Staff	5.7	0.8	(4.9)		
Consultants	4.0	0.3	(3.7)		
TOTAL	9.7	1.1	(8.6)		
* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.					

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Project Summary

Scope

The purpose of the project is to improve parking and access to the existing Kent Sounder Station for Sounder riders, bicyclists, bus riders, and drivers.

Project includes alternatives identification, screening environmental documentation, design, and construction of station parking and access improvements at or around Kent

Station.

Phase Conceptual Engineering and Environmental

Review complete.

Budget \$15.6 Million

Schedule Open for Service date will depend on ST

Board direction from realignment process.



Improving access to Sounder Kent Station

Key Project Activities

- Project team continued to advance the Development Agreement with the City of Kent.
- Project team continued work to advance a funding agreement with King County Metro for a bus layover area and electric charging stations.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditure increased by \$63K. The incurred cost increased from \$4.25M to \$4.31M. The majority of this period's costs is attributed to staff costs, ROW activities and conceptual engineering work.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$1.7	\$1.5	\$1.5	\$1.7	\$0.0
Preliminary Engineering	\$3.4	\$3.1	\$2.6	\$3.4	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$2.0	\$0.0	\$0.0	\$2.0	\$0.0
3rd Party Agreements	\$0.6	\$0.0	\$0.0	\$0.6	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$7.9	\$0.5	\$0.2	\$7.9	\$0.0
Total	\$15.6	\$5.1	\$4.3	\$15.6	\$0.0

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Risk Management

The project team conducts quarterly risk management workshops to identify, update, and monitor potential risks during design and construction. The project team reviewed and updated the risk register in October 2020. The following are the top project wide risks:

- Real Estate: One of the key acquisitions contain operational concerns. Property owner owns more than one property that are "linked" that may also need to be acquired.
- Real Estate: Potential challenge to purchase specific parcels for the realigned of Railroad Avenue.
- Geotechnical: Unknown contaminated soils underneath existing building.

Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Open For Service Date will depend on Board direction from realignment process.

The project continues working towards completing the Phase II—Conceptual Engineering and Environmental activities throughout Q4 2019 and completed the environmental evaluation in Q4 2019. Letter Of Concurrence (LOC) between Sound Transit and City of Kent signed in January 2020.

In February 2020 the project team went to the ST Board and received approval for the "Select the Project to be Built." The project team presented to the ST Phase Gate Committee "Phase Gate 3: Enter Design and Construction" on March 17, 2020 and received approval to enter the phase. The project's Threat Vulnerability Assessment (TVA) was completed in July 2020.

During the September ST Board meeting, approval was received to un-pause a portion of the project to move forward with a change order (approved by the Board in February 2020) to current Design-Build Project Management (DBPM) team HNTB to prepare an analysis of potential multi-Sounder South Commuter Rail Station Parking and Access Improvement projects contract packaging options. Board September Re-Alignment Motion allows advancing DBPM option focusing on near term actions that can help inform the board in making better realignment choices next year. Paperwork with HNTB for signature. This will help project continue to pursue "shovel ready." Approval to issue Design-Build Procurement RFQ and Baselining will not occur until after Project Requirements are developed and ST Board realignment decisions are made regarding the project. Further ST Board realignment decisions are anticipated as part of the July 2021 ST Board Realignment. Other activities underway include initiating property appraisal and condemnation activities, negotiating Development Agreement with the City of Kent and negotiating King County Metro agreement and contribution for bus layover accommodation.

Activity ID Activity Name	e	Start	Finish	Q4	2019 Q1 Q2 Q3 Q4	2020 Q1 Q2 Q3 Q4	2021 Q1 Q2 Q3
Sound Transit		24-Feb-16 A	26-Aug-21	Г			7
Sound Transit 2		24-Feb-16 A	26-Aug-21				
South Corridor		24-Feb-16 A	26-Aug-21				_
S300035 - Kent Station Acce	ss Improvements - DB Maste	24-Feb-16 A	26-Aug-21				
Alternative Analysis (Phase	l)	24-Feb-16 A	15-Nov-17 A				
Conceptual Engineering (P	hase II)	22-Mar-18 A	04-Jun-21				7
Preliminary Engineering (Pl	hase III)	13-Dec-18 A	26-Aug-21	▼			

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Community Outreach

• We are monitoring outreach needs for the project and are available to answer any questions.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project in October was focused on the review of the Development Agreement with the City of Kent and Funding Agreement with King County Metro. Work advanced on the review of the Development Agreement with the City of Kent and Funding Agreement with King County Metro.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.5	2.8	(2.7)
Consultants	3.8	0.7	(3.1)
TOTAL	9.3	3.5	(5.8)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Sounder Commuter Rail Puyallup Station Access Improvements



Project Summary

Scope The purpose of the project is to improve

access to the existing Puyallup Sounder station for Sounder riders, bicyclists, bus

riders, and drivers.

The proposed project includes an up to 5 level parking garage and an expansion of a surface lot; together both shall provide a minimum of 600 total stalls. The project also includes a pedestrian bridge over 5th

Street Northwest.

Phase Final Design and Construction

Budget \$79.1 Million

Schedule Open for Service: Q1 2022



Improving access to Sounder Puyallup Station

Key Project Activities

- Update of project schedule is underway due to recently completed negotiations with the City impacting previously forecast Design Build Notice To Proceed (NTP) date. Open For Service date may be delayed beyond February 2022.
- Design Builder continues with project design as well as Mobilization and Demolition activities.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditures increased by \$1.2M. The incurred cost increased from \$23.6M to \$24.8M. This period's costs are attributed to property acquisition and relocation, staff costs, construction management services and \$0.7M for the Design Build construction contract.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$4.6	\$2.7	\$2.7	\$4.6	\$0.0
Preliminary Engineering	\$2.7	\$2.6	\$2.5	\$2.9	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$5.1	\$4.6	\$1.5	\$5.2	\$0.0
3rd Party Agreements	\$0.3	\$0.1	\$0.0	\$2.2	\$0.0
Construction	\$60.2	\$52.8	\$11.9	\$58.4	\$0.0
ROW	\$6.2	\$6.3	\$6.2	\$5.6	\$0.0
Total	\$79.1	\$69.0	\$24.8	\$79.1	\$0.0

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Sounder Commuter Rail Puyallup Station Access Improvements

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The project team conducts quarterly risk management workshops to identify, update, and monitor potential risks during design and construction. The next risk register update is scheduled for November 2020. The following are the top project wide risks:

- Environmental Inadvertent Discovery Plan (IDP). The final IDP is currently in its 30-day Tribal review period. Due to COVID-19, Tribal staff is furloughed which will extend receiving approval to October 18, 2020. IDP is required before any deep excavation work may be performed by the Contractor.
- Environmental Contamination (Soil &/or Water). A work plan has been included in the procurement documents to mitigate and address remediation of contaminated materials. This will be the first line of work the contractor will perform when they are approved to proceed with construction.

Project Schedule

Sound Transit issued Notice to Proceed (NTP) to the Design-Build contractor Hensel Phelps in late March 2020. Negotiations with the City of Puyallup on the Development Agreement did have a significant impact on the Design-Build NTP date. Potential impacts to baselined Open for Service date continue to be evaluated by project team. Open For Service date may be delayed beyond February 2022.

Hensel Phelps' Baseline design-build schedule was approved August 2020. ROW acquisitions and related easements in support of the project are forecast to complete in advance of when needed to support construction activities. City of Puyallup approval of Street Vacation completed in August 2020. 3rd Ave NW has been closed. Out of the six Design Packages being developed by KPFF/Hensel Phelps, three are currently being developed to a 100% level while three are currently being developed to an IFC Level.

Project team continues evaluating re-sequencing work to mitigate risk to the extent possible of potential delay to deep excavation work due to furloughed Tribal staff impacting Tribal review and approval of Inadvertent Discovery Plan (IDP). IDP approval by FTA issued October 29, 2020. Sound Transit and Contractor continue to work with Burlington Northern Santa Fe (BNSF) railroad on agreement for the 5th Street crossing and also are continue working with PSE and Comcast regarding utility relocations. BNSF crossing agreements to execute a revised easement between the City and Burlington Northern Santa Fe to facilitate crossing improvements are planned to be brought to the Board for approval in November 2020. Hensel Phelps has various permits in with the City of Puyallup (CoP) for review and/or addressing CoP comments on permit submittals. Upcoming planned construction work in November, joint utility trench (JUT) and removal of underground storage tank (UST). The City issued the permit to HP to perform the 100% joint utility trench construction. This trench will include PSE, CenturyLink, and Comcast infrastructure. HP received comments from the City on the DP-1 civil permit. Comments are being incorporated and the revised permit package has been resubmitted to the City. The permit is expected to be issued by 11/6/20.

tivity ID	Activity Name	Start	Finish		2019	2020	2021
				Q4 (Q1 Q Q3 Q4	4 Q1 Q2 Q3 Q4	4 Q Q2 Q3 Q4
Sound Transi	it	01-May-15 A	12-Apr-22	Ħ			
Sound Transit 2	2	01-May-15 A	12-Apr-22				
South Corridor	r	01-May-15 A	12-Apr-22	Н			
Sounder Com	muter Rail - South	01-May-15 A	12-Apr-22	H			+
Station Acces	s - South	01-May-15 A	12-Apr-22	\vdash			
S300017-Puyall	lup Station Access Improvements - DB	01-May-15 A	12-Apr-22	-			
S300017-Puya	llup Station Access Improvements - PE	01-May-15 A	20-Mar-19 A	H	~		
S300017-Puya	Ilup Station Access Improvements - ROW	05-Jul-16 A	15-Feb-21				 -
S300017-Puya	Ilup Station Access Improvements - Permits & Third Party Agreements	15-Jul-16 A	28-Jan-21	H			┿
S300017-Puya	llup Station Access Improvements - Construction	17-Sep-18 A	12-Apr-22				
S300017-Puya	Ilup Station Access Improvements - Project Completion	04-Jan-22	12-Apr-22				1
	Ilup Station Access and Improvements - Project Completion	04-Jan-22	12-Apr-22				1
Post Construct	ion	04-Jan-22	12-Apr-22				1
Project Float							1
Open For Serv Transition to C		10-Feb-22 03-Feb-22	10-Feb-22 12-Apr-22	·			+

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Sounder Commuter Rail Puyallup Station Access Improvements



Community Outreach

- Distributed construction alerts on the closure of 3rd Ave NW, and on 5th Street NW utility work.
- Continued meeting with stakeholders and neighbors.
- Continued planning for fall online open house, scheduled for early November.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Due to negotiations with the City and Property Owners, the previously forecasted Design Build Notice To Proceed (NTP) is delayed; resulting in a variance.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.0	5.7	0.7
Consultants	4.7	3.7	(1.0)
TOTAL	9.7	9.4	(0.3)

 $^{^\}star$ An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None this period.	

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Project Summary

Scope Sound Transit will design and construct a

Sounder Commuter Rail maintenance facility and train yard elements that will include: maintenance shops, repair positions, storage areas, office and employee welfare facilities.

Located in Lakewood, WA on Sound Transit's railroad right of way between Steilacoom Boulevard and 100th Street SW, east of Lakeview Boulevard.

Phase Design and Construction

Budget \$12.9 Million

Schedule Open for Service date will depend on ST

Board direction from realignment process.



Sounder Maintenance Base Project Alignment

Key Project Activities

- The Design Build Project Management (DBPM) consultant developed the initial design build project requirements, building program and other procurement documents. Phase 2 of the DBPM Contract is on hold pending realignment discussions.
- Continued utility coordination with Tacoma Power and Puget Sound Energy to relocate their utilities off Sound Transit's railroad right of way. Puget Sound Energy to start construction in December 2020.
- Board baseline action is on hold pending realignment discussions. Procurement will proceed after Board baseline.



Brake pads are replaced on a Sounder car.



Air filters are changed at the Sounder maintenance base in Seattle

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Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditures increased by \$78K. The incurred cost increased from \$9.59M to \$9.67M. The majority of this period's costs are attributed to staff costs; geotechnical investigations in the Preliminary Engineering Phase; and right-of-way activities including temporary construction easement appraisals.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.5	\$2.6	\$2.5	\$2.5	\$0.0
Preliminary Engineering	\$3.5	\$3.2	\$2.9	\$3.5	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$2.0	\$1.9	\$1.7	\$2.0	\$0.0
3rd Party Agreements	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction	\$2.0	\$0.3	\$0.1	\$2.0	\$0.0
ROW	\$3.0	\$2.6	\$2.4	\$3.0	\$0.0
Total	\$12.9	\$10.6	\$9.7	\$12.9	\$0.0

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The project team conducts quarterly risk management workshops to identify, update and monitor potential risks during design and construction. The project team completed a quantitative risk analysis to evaluate confidence in the current budget and schedule. The analysis established contingency levels and schedule float for the project baseline. The analysis has identified the following as the top project risks and proposed mitigations:

- Advanced utility relocation delays *Risk Mitigation*: Execute agreements with the utility companies in advance of the design-build team mobilizing. Monitor progress on a regular basis.
- Implementing new form of contracting: Design Build Guaranteed Maximum Price Contract. *Risk Mitigation*: Work closely with Design Build Project Management and Sound Transit team to modify contract documents. Seek Sound Transit sponsorship to accomplish timely review and approval of changes.
- ROW acquisition delay Risk Mitigation: Monitor Sound Transit Real Estate negotiations and obtain possession and use of property being acquired.

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Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Open For Service Date will depend on Board direction from realignment process.

Sounder Maintenance Base initial draft Design/Build (D/B) Project Requirements (PR's) were completed in June 2020 and will be incorporated into the D/B Request For Qualifications (RFQ). Issuance of the D/B RFQ is currently on-hold. Approval of change order for the Design-Build Project Management (DBPM) team to develop the final Project Requirements for the Design-Build Procurement RFP and Construction Services support is also currently on-hold.

Activity ID Activity N	Name	Start	Finish	2019	2020	2021
		04.4 40.4	00.4			
Sound Transit		01-Apr-13A	26-Aug-21			
Sound Transit 2		01-Apr-13A	26-Aug-21			
South Corridor		01-Apr-13A	26-Aug-21			
S300004 - Sounder Maint	renance Base - Design/Build MS (Master)	01-Apr-13 A	26-Aug-21			
Conceptual Engineering		29-Jul-13 A	30-Jan-18 A			
Preliminary Engineering		01-Jun-14 A	26-Aug-21			_
Environmental Assessm	ent	01-Apr-13 A	13-Mar-20 A		-	
Third Party Utility Reloca	ation and Misc Construction	02-Jan-19 A	23-Jun-21			-
Design Build Project Ma	nagement Services +	01-Aug-18 A	30-Jun-20 A			
DBPM - Phase 1 - Const Ser	vices/Support - DB Project Req'ts (PRs)(Draft)/RF	01-Aug-18 A	30-Jun-20 A		7	

Community Outreach

• We are monitoring outreach needs for the project and are available to answer any questions.

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Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The variance is due to limited availability of Sound Transit subject matter experts. This limited availability is being supplemented by the Design Build Project Management Consultant, therefore explaining the variance in the consultant projections.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	8.1	3.9	(4.2)
Consultants	2.3	3.7	1.4
TOTAL	10.4	7.6	(2.8)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None this period.	

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Project Summary

Scope

This project will establish a program of capital elements that will be used to enhance South Sounder access, capacity, and services in response to increased demand.

Program elements could include platform extensions, track and signal upgrades and other related infrastructure to facilitate additional capacity, and access elements such as improvements for pedestrians, bicyclists, buses, and private vehicles, prioritized per Sound Transit's System Access Policy.

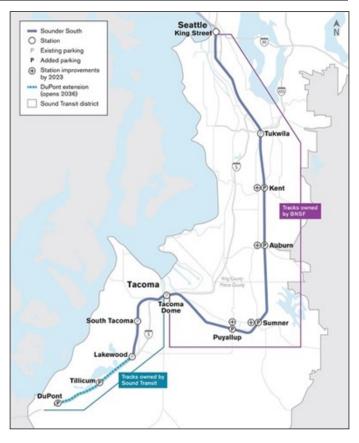
Once the Sounder Strategic Development and Implementation Plan is complete then the capital projects included in this representative program will be refined.

Phase Planning

Budget \$3.6 Million

Schedule Open for Service date will depend on ST

Board direction from realignment process.



Sounder South Capacity map alignment

Key Project Activities

- Due to the economic impacts from COVID-19 pandemic, the Sound Transit Board initiated conversations of conducting a
 capital program realignment of capital projects. The SSCE Program's anticipated major activities planned for Q2 2020 are
 on pause.
- Sound Transit and BNSF Railway initiated the Path Finding Study Technical Working Group meeting series in July 2020 and continues to meet bi-weekly.



Possible platform and track improvements



Sounder South Tukwila Station showing access elements

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Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditures increased by \$5K with the majority of the amount coming from staff costs.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$1.2	\$1.1	\$1.1	\$1.2	\$0.0
Preliminary Engineering	\$2.0	\$1.8	\$1.4	\$2.0	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.4	\$0.4	\$0.0	\$0.4	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$3.6	\$3.3	\$2.5	\$3.6	\$0.0

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

There are no risks identified at this time.

Community Outreach

We are monitoring any outreach needs for the project and are available to answer any questions.

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Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment. The project is expecting about eight months of COVID-19 related delays. As a result, dates including Service Date, will depend on Board direction from realignment process.

Activity ID Acti	tivity Name	Start	Finish	20)20		2021			
				Ω2	Q3	Q4	Q1	Q2	Q3	Q4
Sounder South - Platfo	orm Extensions	13-Jun-18A	05-Aug-37							
Sounder South Platform Ex	tensions	13-Jun-18A	05-Aug-37							
Alternative Analysis - (Ph -	-I)	13-Jun-18A	28-Jan-21				-			
Conceptual Engineering/En	nvironmental - (Ph - II)	29-Jan-21	01-Feb-23							

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Due to the economic impacts from COVID-19 pandemic, the Sound Transit Board initiated conversations of conducting a capital program realignment of capital projects. The SSCE Program's anticipated major activities planned for Q2 2020 are on pause.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	13.4	2.4	(11)
Consultants	0.7	0.5	(0.2)
TOTAL	14.1	2.9	(11.2)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Sounder Commuter Rail Sumner Station Access Improvements



Project Summary

Scope The purpose of the project is to provide

increased access to parking by adding 505

net new spaces and new bus loop.

Project includes alternative identification, screening, environmental documentation, design and construction of station access improvement at or around Sumner Station.

Phase Preliminary Engineering

Budget \$17.8 Million

Schedule Open for Service date will depend on ST

Board direction from realignment process.



Improving access to Sounder Sumner Station

Key Project Activities

- Design-Build procurement documents finalized. Project on hold pending Board re-alignment discussions.
- Continued negotiations with parcel owners for relocation and acquisition.
- Approach to baselining has received an exception from Project Controls to take place post Design-Builder selection.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditures increased by \$22K. The incurred cost decreased from \$10.6M to \$10.62M. This period's costs are attributed to staff costs and right-of-way activities.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.1	\$1.7	\$1.7	\$2.1	\$0.0
Preliminary Engineering	\$2.8	\$2.6	\$2.6	\$2.8	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.4	\$0.0	\$0.0	\$0.4	\$0.0
3rd Party Agreements	\$7.6	\$7.6	\$2.4	\$7.6	\$0.0
Construction	\$0.3	\$0.1	\$0.1	\$0.3	\$0.0
ROW	\$4.6	\$4.1	\$3.8	\$4.6	\$0.0
Total	\$17.8	\$16.0	\$10.6	\$17.8	\$0.0

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Sounder Commuter Rail Sumner Station Access Improvements

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The project team conducts quarterly risk management workshops to identify, update, and monitor potential risks during design and construction. The next risk register update is scheduled for November 2020. The following are the top project wide risks:

- Third Party Agreements to be finalized before contract award. ST staff has finalized a draft of the Conditional Use Permit (CUP); readying for a meeting with the City once key open issues have been addressed.
- Environmental-Contamination (Soil &/or Water). Inclusion of a work plan has been included in the procurement documents to mitigate and address remediation of contaminated materials. This will be the first line of work the contractor will perform when they are approved to proceed with construction.

Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Open For Service Date will depend on Board direction from realignment process.

The project is in the Preliminary Engineering phase, the preliminary engineering work overall is complete, the remaining activities in this phase are to Baseline the project. Approach to Baselining received an exemption from Project Controls in February 2020 to take place post Design Builder highest-ranked proposer selection. Right-of-Way acquisitions are in progress and are forecast to be completed in advance of the area of construction needed for the Design-Build contractor's construction activities. Board September Re-Alignment Motion allows advancing DBPM option focusing on near term actions that can help inform the board in making better realignment choices next year. Project Procurement documents complete; Procurement for Issuance of the Design-Build Request For Qualifications (RFQ) is currently on hold pending Board level discussion on realignment. Finalizing agreements for replacement parking during construction.

Activity ID Activity Name	Start	Finish	Q4	2019 Q1 Q2 Q3 Q	2020 4 Q1 Q2 Q3	Q4 Q1	2021 1 Q2 Q3 Q4	Q1 (
Sound Transit	01-May-15 A	28-Apr-22						
Sound Transit 2	01-May-15 A	28-Apr-22						-
South Corridor	01-May-15 A	28-Apr-22	Н					
S300018 - Sumner Station Parking and Access Improverr	01-May-15 A	28-Apr-22	Н					
Alternative Analysis (Phase I)	01-May-15 A	26-May-16 A						
Conceptual Engineering (Phase II)	01-May-15 A	14-Mar-16 A						
Preliminary Engineering (Phase III)	14-Jul-16 A	28-Apr-22						
Permits and Agreements	01-Mar-16 A	31-Jan-21						
South Corridor S300018 - Sumner Station Parking and Access Improverr Alternative Analysis (Phase I) Conceptual Engineering (Phase II) Preliminary Engineering (Phase III) Permits and Agreements Right of Way	22-Sep-16 A	13-Nov-21	Н					

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Sounder Commuter Rail Sumner Station Access Improvements



Community Outreach

Community Outreach is monitoring outreach needs for the project and is available to answer any questions.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Variance between the planned and actual FTE figures is the result of the project's baselining being delayed. Once the project has been baselined actual staffing numbers are expected to rise to meet the planned.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	6.0	1.5	(4.5)
Consultants	1.6	0.3	(1.3)
TOTAL	7.6	1.8	(5.8)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Progress Report

Regional Express & STRIDE Programs









ST Express Bus routes connects major regional hubs throughout the three counties (King, Pierce, and Snohomish)

October | 2020

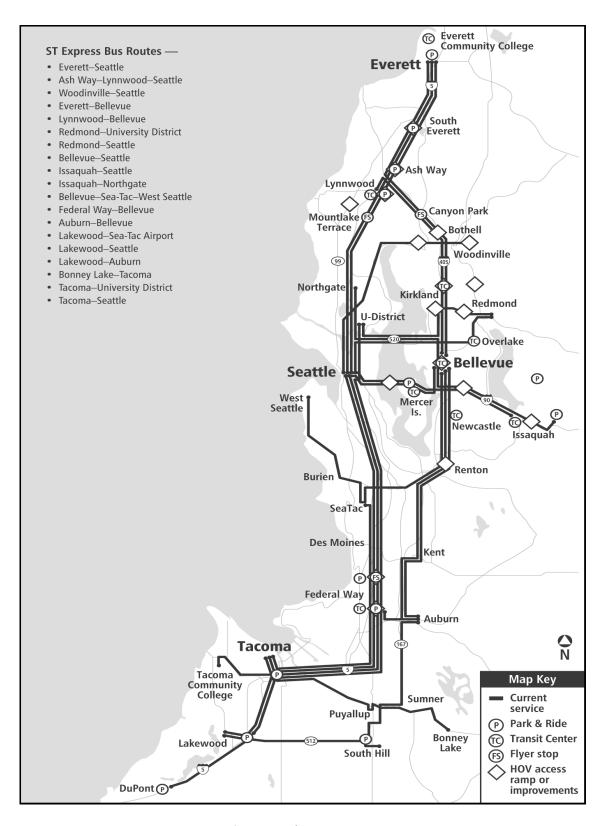


Prepared by Project Control & VE | Design, Engineering & Construction Management

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Regional Express & STRIDE Program Overview



ST Regional Express Bus Routes

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Regional Express & STRIDE Program Overview



ST Express Bus Base: Sound Transit is evaluating the need for an operations and maintenance base. Project development activities include confirmation of fleet operations; facilities and site programming; and identification of site alternatives. Project is currently on hold, but being re-evaluated by senior management.

I-405 Bus Rapid Transit: This project establishes Bus Rapid Transit (BRT) from the Lynnwood Transit Center to Bellevue Transit Center and Burien Transit Center via I-405 and SR 518. The project relies on the I-405 express toll lane system where available, and Business Access Transit (BAT) lanes on SR 518 from Tukwila to Burien. Project elements include parking, station access improvements, and 11 pairs of stations, including a new transit center in South Renton and new stations at Northeast 85th Street with connection to Downtown Kirkland and at Northeast 44th Street in Renton.

Bus Base North: This project establishes the operations and maintenance facility necessary to support to support BRT operations.

SR522 Bus Rapid Transit: This project establishes BRT from the Link station at I-5 and Northeast 145th Street to UW Bothell, with service continuing at lower frequencies to Woodinville. On Northeast 145th Street, this project includes transit priority spot treatments to facilitate BRT movement through corridor bottlenecks. On SR 522 the majority of the corridor through Lake Forest Park, Kenmore and Bothell will feature BAT lanes, with transit-supportive enhancements on arterials from downtown Bothell to UW Bothell. This project includes nine pairs of stations, with additional parking at Lake Forest Park, Kenmore and Bothell and an expanded transit center at UW Bothell.

Bus on Shoulder: This program provides opportunities for buses to use shoulders on freeway and state route facilities during periods of congestion in general traffic and/or HOV lanes. This program will require coordination and further study with transit partners, WSDOT and Federal Highway Administration in order to determine locations where Bus on Shoulder may be feasible.

North Sammamish Park & Ride: The project includes the planning, design and construction of a park and ride facility. The North Sammamish Park and Ride will provide up to 200 parking spaces in the north end of the City of Sammamish. The park and ride will be open for public access in 2024, improving access to transit service for Sammamish residents.

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Regional Express & STRIDE Program Overview

Program Budget

The Authorized Project Allocation reflects the budget for each project through the approved project phase. As projects advance through design into construction the budget will be amended to reflect Board approved actions.

Regional Express and STRIDE	Authorized Allocation	Commitment To Date	Incurred to Date	Forecast to Complete	Estimated Final Cost	Authorized Allocation vs EFC
ST EXPRESS BUS BASE	\$5.8	\$3.1	\$1.2	\$2.7	\$5.8	\$0.0
I-405 BRT	\$226.1	\$196.8	\$77.8	\$29.4	\$226.1	\$0.0
BUS BASE NORTH	\$48.7	\$27.7	\$27.2	\$21.0	\$48.7	\$0.0
SR 522-NE 145th ST BRT	\$69.4	\$45.4	\$31.8	\$24.0	\$69.4	\$0.0
BUS ON SHOULDER PROJECT	\$3.9	\$0.8	\$0.8	\$3.1	\$3.9	\$0.0
NORTH SAMMAMISH PARK & RIDE	\$2.1	\$0.3	\$0.3	\$1.8	\$2.1	\$0.0
TOTAL REX & STRIDE	\$356.0	\$274.1	\$139.0	\$82.0	\$356.0	\$0.0

Figures are shown in millions

Program Schedule

All projects within the Regional Express and STRIDE programs are part of the realignment process. A graphic of the revised timelines will be displayed following the conclusion of the realignment process.

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Regional Express & STRIDE ST Express Bus Base



Project Summary

Scope Sound Transit is evaluating the need for an

operations and maintenance base. Project

development activities include

confirmation of fleet operations, facilities and site programming, and identification of

site alternative.

Phase Planning

Budget \$5.8 Million

Schedule Project is on hold



ST. Express bus maintenance performed by transit partners

Key Project Activities

- Sound Transit Executive Leadership is evaluating the need for an operations and maintenance base.
- Sustainability is completing a \$125K study of Battery-Electric Buses to develop an agency-wide implementation plan for future transition to Battery Electric Buses. Work anticipated to start in 2020 will be further delayed due to COVID-19 pandemic.
- Open for Service date will depend on Board direction from realignment process.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$0.8	\$0.4	\$0.4	\$0.8	\$0.0
Preliminary Engineering	\$4.8	\$2.7	\$0.8	\$4.8	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Total	\$5.8	\$3.1	\$1.2	\$5.8	\$0.0

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Regional Express & STRIDE ST Express Bus Base

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Regional Express & STRIDE I-405 Bus Rapid Transit



Project Summary

Scope Launch a Bus Rapid Transit (BRT) system

along the I-405 corridor.

Limits Approximately 37 miles between

Lynnwood and Burien

Alignment I-405 BRT will extend along the I-5, I-405

and SR 518 corridors. BRT will serve Lynnwood, Bothell, Kirkland, Bellevue, Renton, SeaTac, Tukwila, and Burien. Buses will operate in high occupancy vehicle lanes, express toll lanes, bus only

lanes and general purpose lanes.

Stations Lynnwood City Center, Canyon Park, SR

522/I-405 Transit Hub, Brickyard, Totem Lake/Kingsgate, NE 85th, Bellevue Transit Center, NE 44th, South Renton Transit Center, Tukwila International Blvd Station,

Burien Transit Center

Phase Planning Phase 2: Environmental review

and conceptual engineering

Budget I-405 BRT: \$226.1 Million

Preliminary Engineering (Phases 1-3)

Schedule Open for Service date will depend on

Board direction from realignment process.



Map of Project Alignment

Key Project Activities

- Developing partnering agreements and letters of concurrence.
- Design-Builder proposed project modifications, which includes the NE 44th station, are under review by ST, WSDOT and the City of Renton.
- Working with WSDOT to advance environmental and design at 85th, Brickyard, SR 522/I-405 Transit Hub, and Canyon Park.
- Consultant contract to proceed to 30% design approved by the System Expansion Committee 10/8

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Regional Express & STRIDE I-405 Bus Rapid Transit

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period expenditures are \$0.5M, of which \$0.3M for staff time, \$0.1M for project refinement activities in the PE phase, \$23K for third party costs and \$15K for ROW activities. Project refinement activities include refining and analyzing multiple concepts for speed and reliability improvements, alternative routing options, and station locations throughout the system and various technical memorandums.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$8.3	\$6.8	\$6.8	\$8.3	\$0.0
Preliminary Engineering	\$49.7	\$45.1	\$20.6	\$49.7	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.8	\$0.0	\$0.0	\$0.8	\$0.0
3rd Party Agreements	\$1.0	\$0.6	\$0.6	\$1.0	\$0.0
Construction	\$130.2	\$118.4	\$24.4	\$130.2	\$0.0
ROW	\$36.2	\$25.9	\$25.5	\$36.2	\$0.0
Total	\$226.1	\$196.8	\$77.8	\$226.1	\$0.0

Risk Management

The project team continues to hold risk management workshops to identify all the potential risks during design and construction. The risk register will be updated and monitored quarterly.

The following are top project risks and proposed mitigations:

- Completion of WSDOT's I-405 Renton to Bellevue Widening and Express Toll Lanes (ETL) Project. Risk Mitigation:
 Sound Transit participated in WSDOT's Design-Build process for the I-405 Renton to Bellevue Project as a proposal evaluation member and integrated BRT milestones into the WSDOT schedule. Sound Transit staff is participating in design and constructability reviews for BRT related facilities.
- Coordination with WSDOT north-end I-405 Express Toll Lane schedule. Sound Transit and WSDOT staff coordination is on-going to minimize or eliminate schedule gaps or slowdowns.

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Regional Express & STRIDE I-405 Bus Rapid Transit



Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Revenue Service Date will depend on Board direction from realignment process.

The current phase, Conceptual Engineering/Environmental Review (Phase 2), commenced in Q2 2019 and is anticipated to complete in Q4 2020/Q1 2021. In October 2020 the Sound Transit System Expansion Committee (SEC) authorized advancing the current Conceptual Engineering consultant's (WSP) Preliminary Engineering (Phase 3) SOW per Motion No. M2020-59: Authorizing the chief executive officer to execute a contract modification with WSP USA Inc. to exercise a contract option for Phase 3 preliminary engineering services for the I405 Bus Rapid Transit project.

In November 2020 it is planned to bring forth to the System Expansion Committee Meeting Motion No. M2020-67: Authorizing the chief executive officer to execute a five-year contract with three one-year options to extend with Jacobs Project Management Co. to provide on-call general engineering consultant services for the Stride Bus Rapid Transit program for an initial total authorized contract amount not to exceed \$2,000,000.

The current critical path for the I-405 BRT project is conceptual engineering, environmental review, preliminary engineering, permitting/agreements, final design, construction, intelligent transportation system (ITS) and service line activation. There are other critical design efforts and construction projects being managed by WSDOT*, with elements specific to Sound Transit, such as the I-405 Renton to Bellevue Widening and Express Toll Lanes, which includes the NE 44th Street interchange and BRT station, I-405 NE 85th interchange and BRT Station, and select planned elements of WSDOTs I-405—SR 522 Vicinity to SR 527 Express Toll Lanes Improvement Project.

*Sound Transit contributed construction funding to WSDOT for Sound Transit's portion of the I-405—Renton to Bellevue Widening and Express Toll Lanes project's Design-Build construction. WSDOT awarded this Design-Build contract in 2019 wherein the I-405 NE 44th Interchange will be constructed for the BRT inline station at that interchange. WSDOT is also currently conducting ST funded design efforts for I-405 NE 85th interchange and Brickyard.

ctivity ID	Activity Name	Start	Finish	2019	2020	2021	2022	2023
				Q1 Q2 Q3 Q4	Q1 Q2 Q3 C	4 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 C
Sound Tra	nsit	01-Jan-18 A	31-Dec-23					
Sound Trans	sit 3	01-Jan-18 A	31-Dec-23					
ST3 - East (Corridor	01-Jan-18 A	31-Dec-23					
STRIDE - B	us Rapid Transit - East Corridor	01-Jan-18 A	31-Dec-23					
STRIDE - I	405 Bus Rapid Transit (BRT)	01-Jan-18 A	31-Dec-23					
I-405 BRT -	Preliminary Engineering	02-Mar-18 A	25-Oct-21			7		
I-405 BRT	- Alternatives Analysis - Phase I	02-Mar-18 A	28-May-19 A	—				
I-405 BRT	- Conceptual Engineering/Environmental Review - Phase II	08-Apr-19 A	24-Feb-21					
I-405 BRT	- Preliminary Engineering - Phase III	22-Oct-20	25-Oct-21		▼			
I-405 BRT -	Final Design - GEC (General Engineering Contract)	31-Jul-19 A	07-Dec-20	—		₹		
I-405 BRT	- Final Design - Procurement (GEC)	31-Jul-19 A	07-Dec-20			₹		
I-405 BRT -	Construction	01-Jan-18 A	31-Dec-23					
I-405 BRT	- Construction - South	29-Oct-18 A	31-Dec-23					
I-405 BRT -	WSDOT - I-405/NE 44th St. Interchange	29-Oct-18 A	31-Dec-23					
Administra		29-Oct-18 A	25-Apr-19 A	—				
Constructi	ion - Construction	01-Apr-19 A	31-Dec-23					
	sign & Construction	01-Apr-19 A 01-Apr-19 A	31-Dec-23 31-Dec-23					
	T I-405/NE 44th S. Interchange Ramps Available to ST	01-Apr-19 A	31-Dec-23					
	- Construction - North	01-Jan-18 A	19-Nov-20			7		
I-405 BRT -	WSDOT - Brickyard Station	22-Aug-19 A	01-May-20 A					
I-405 BRT	- WSDOT - Brickyard	22-Aug-19 A	01-May-20 A	_				
ST-WSD0	DT Agreement - Conceptual Engineering Design (15%)	22-Aug-19 A	01-May-20 A	_	-			
I-405 BRT -	WSDOT- NE 85th interchange and inline station	01-Jan-18 A	19-Nov-20			7		
Prelimina	ry Engineering	01-Jan-18 A	19-Nov-20			▼		

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Regional Express & STRIDE I-405 Bus Rapid Transit

Community Outreach

Sound Transit is committed to proactively seeking public input during all stages of the I-405 BRT Project. The I-405 BRT Community Engagement Guide establishes a stakeholder engagement process that helps ensure priorities of local communities are heard and considered along with the project-wide goals. The BRT team will collaborate with elected officials, partner staff and local communities throughout the project.

- Comment period for SEPA checklist opened through Oct. 14th
- Elected Leadership Group meeting planning began.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is annual projection. ST Staff level of effort will increase once Phase 3 begins next month. Consultant FTE is almost in line with FTE planned.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	16.6	14.1	(2.5)
Consultants	16.2	15.7	(0.5)
TOTAL	32.8	29.8	(3.0)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
M2020-59	Contract Amendment for Phase 3 Preliminary Engineering Services for the I-405 BRT and BBN.	10/8/20

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Regional Express & STRIDE Bus Base North



Project Summary

Scope The Bus Base North will accommodate up

to 120 buses to serve I-405 and SR 522/145th BRT and some ST Express

routes.

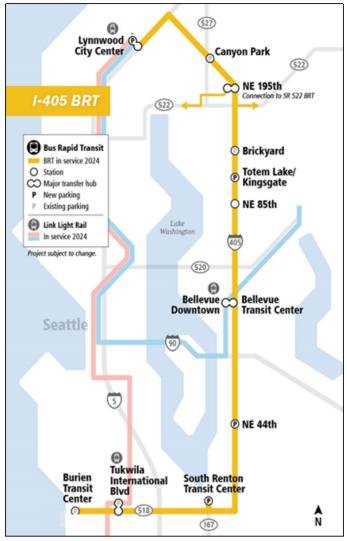
Phase Conceptual engineering/environmental

review

Budget \$48.7 Million

Schedule Open for Service date will depend on

Board direction from realignment process.



Map of Project Alignment

Key Project Activities

- State Environmental Policy Act (SEPA) Determination of Non-significance (DNS) issued August 10
- Design-Build Project Management Contract: Award pending Capital Program realignment process by ST Board.
- Property acquisition settlement complete, addressing the Business Park's Codes, Covenants and Restriction (CCRs) continues.

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Regional Express & STRIDE Bus Base North

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period expenditure increased by approximately \$320K primarily due to progress made by the consultant on preliminary engineering and environmental for \$40K by Sound Transit Staff time for \$120K, and ROW administration activities for \$160K

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$4.4	\$1.2	\$1.3	\$4.4	\$0.0
Preliminary Engineering	\$2.3	\$1.7	\$1.2	\$2.3	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$12.6	\$0.0	\$0.0	\$12.6	\$0.0
3rd Party Agreements	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$29.2	\$24.7	\$24.8	\$29.2	\$0.0
Total	\$48.7	\$27.7	\$27.2	\$48.7	\$0.0

Risk Management

The BRT Project Team will develop the Risk and Contingency Management Plan (RCMP) during the Design/Build phase of the project. The project team conducted a risk management workshop to identify all the potential risks during design and construction. The risk register will be updated and monitored quarterly.

The top project risk and proposed mitigation is below:

• Appeal of SEPA Checklist. Risk Mitigation: Sound Transit is responding to the appeal.

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Regional Express & STRIDE Bus Base North



Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Revenue Service Date will depend on Board direction from realignment process.

The current phase, Conceptual Engineering/Environmental review, commenced in Q2 2019 and is now anticipated to complete in Q1 2021.

Sound Transit has prepared a State Environmental Policy Act (SEPA) environmental checklist for the Bus Base North project in Bothell. As part of the environmental checklist, Sound Transit developed technical reports and memos on the following topics: Noise and Vibration, Ecosystem Resources, Hazardous Materials, Transportation, Visual and Aesthetic Resources, Historic and Archaeological Resources.

Based on the checklist, technical reports and other information, Sound Transit has determined that the Bus Base North project does not have a probable significant adverse impact on the environment. A Determination of Nonsignificance (DNS) was issued on August 10, 2020. City of Bothell issued an appeal to Sound Transit's SEPA DNS determination, Sound Transit is responding to this SEPA appeal.

The environmental analysis will inform the Sound Transit Board on future decisions about the project.

Other, select, environmental permitting activities are underway and are planned to complete in Q3/Q4 2021.

Sound Transit plans to present to the November 2020 Sound Transit Board of Directors Resolution No. R2020-21: Amending the Adopted 2020 Budget for the Bus Base North project to support a property acquisition. Property owner allowed Sound Transit to take possession in May 2019, recent appraisals and mediation arrived at through a 3rd party resulted in an increased valuation of the property.

The current critical path for Bus Base North is conceptual engineering, environmental review, potential compensation to property owners related to acquiring rights to deviate from restrictive covenants that prohibit Sound Transit's proposed use for the property, developing project requirements, permitting/agreements, design-build procurement, design-builder final design, permitting, construction, integration with intelligent transportation system (ITS), preparation for and readiness of Bus Base North for new BRT bus fleet and service line activation.

Activ	ity ID	Activity Name	Start	Finish	2019	2020	2021
					Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	4 Q1 Q2 Q3 0
	Sound Transit		21-Nov-17 A	10-Sep-21			_
	Sound Transit 3		21-Nov-17 A	10-Sep-21			
	ST3 - East Corrido	r	21-Nov-17 A	10-Sep-21			
	STRIDE - Bus Rapi	d Transit - East Corridor	21-Nov-17 A	10-Sep-21			_
Ш	STRIDE - I-405 But	s Rapid Transit (BRT)	21-Nov-17 A	10-Sep-21			
	STRIDE - BRT - Bus	Base North (CUD01)	21-Nov-17 A	10-Sep-21			
	BRT - Bus Base No	rth - Preliminary Engineering	08-Apr-19 A	10-Sep-21			_
	BRT - Bus Base North	- Conceptual Engineering - Phase II	08-Apr-19 A	10-Sep-21			
	BRT - Bus Base No	rth Right of Way (ROW) / Property Acquisition	21-Nov-17 A	24-Jun-21			7

Community Outreach

Sound Transit is committed to proactively seeking public input during all stages of the BRT Project. The I-405 BRT Community Engagement Guide establishes a stakeholder engagement process that helps ensure priorities of local communities are heard and considered along with the project-wide goals. The BRT team will collaborate with elected officials, partner staff and adjacent property owners during the project. Sound Transit is working closely with the City of Bothell on the Bus Base North project.

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Regional Express & STRIDE Bus Base North

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is annual projection. The variance in ST staff level of effort will reduce once DBPM (Design-Build Project Management contract) starts. However, award of Design-Build Project Management contract is on pause due to Realignment Process. Consultant staff are currently working on Phase 2, Phase 3 will start next month.

Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
5.5	3.4	(2.1)
2.7	2.0	(0.7)
8.2	5.4	(2.8)
	Monthly Average 5.5 2.7	Monthly Average 5.5 3.4 2.7 2.0

^{*} An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
M2020-59	Contract Amendment for Phase 3 Preliminary Engineering Services for the I-405 BRT and BBN	10/08/2020

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Project Summary

Scope Launch a Bus Rapid Transit (BRT) system

from the Shoreline South/145th light rail station to UW Bothell campus with connecting service to Woodinville, including park and ride, access improvements, and transit centers.

Limits Approximately 8 miles between Shoreline

and Bothell

Alignment The BRT route will travel via NE 145th

Street and SR 522 serving Seattle, Shoreline, Lake Forest Park, Kenmore, and

Bothell, including UW Bothell/Cascadia College area. The route will have a connection to I-405 BRT at the SR 522/I-405 interchange. Buses will operate primarily in Business Access and Transit (BAT) lanes, transit queue bypass lanes,

and in general purpose lanes.

Stations Includes 14 BRT stations. Additional

parking is included in Lake Forest Park,

Kenmore, and Bothell.

Systems BRT Operations & Transit Signal Priority

Phase Planning Phase 2 Conceptual Engineering

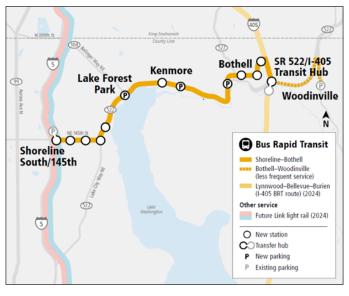
and Environmental Review

Budget \$69.4 Million - Preliminary Engineering

Phase (1-3)

Schedule Open for Service date will depend on

Board direction from realignment process.



Map of Project Alignment



Key Project Activities

- Conducting environmental review and advancing preliminary engineering design.
- Continuing stakeholder outreach focused on property owners and businesses.
- Interagency Group met to provide ideas and recommendations to the project team.
- Received comments on 30% plans –Kenmore.

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Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period expenditures increased for \$5.2M, primarily due to progress made in construction for \$4.6M for construction in Bothell, progress by consultant on conceptual engineering and environmental for \$0.3M, Sound Transit staff time for \$0.2M, and ROW activities for \$40K.

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$6.3	\$4.7	\$4.8	\$6.3	\$0.0
Preliminary Engineering	\$17.0	\$15.0	\$11.4	\$17	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.3	\$0.0	\$0.0	\$0.3	\$0.0
3rd Party Agreements	\$6.4	\$0.5	\$0.4	\$6.4	\$0.0
Construction	\$34.0	\$25.0	\$14.9	\$34.0	\$0.0
ROW	\$5.3	\$0.2	\$0.3	\$5.3	\$0.0
Total	\$69.4	\$45.4	\$31.8	\$69.4	\$0.0

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and developing risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. Sound Transit continuously monitors project status and assesses associated risks.

The following are the top project risks and proposed mitigations:

- The SR 522/NE 145th Street BRT project is an early deliverable and involves close coordination with multiple project partners. Staff and consultants are continuing to coordinate closely with project partners.
- The timeline for property acquisition is a risk for this project. Key mitigation thus far has included advancing a change order in Phase 2 to perform work that supports property civil certification and acquisition, conducting focused property owner outreach in the fall/winter of Phase 2, and advancing Phase 3 contract to first quarter 2020 to further expedite design to support property acquisition.
- Early concurrence on project components is a key effort of project development though on-going coordination with the Project Interagency Coordination Group, City Managers Group and Elected Leadership Group. Letter of Concurrence are being developed with major jurisdictions on the SR 522/145th BRT alignment for the project advancing to 30 percent design.
- Coordination of project on NE 145th with WSDOT and the Cities of Seattle and Shoreline complex jurisdictional situation
 and third partner expectation for ST capital investment. Partner Agency staff are actively working towards a multiagreeable solution.
- Working with Agencies Having Jurisdictions to modify the project footprint throughout the corridor to minimize potential property impacts.

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Project Schedule*

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Revenue Service Date will depend on Board direction from realignment process.

The SR 522/NE 145th BRT Project Refinement Phase completed in Q2 2019. The current phase, Conceptual Engineering/ Environmental Review, commenced in Q2 2019 and is anticipated to complete in Q4 2020/Q1 2021. Preliminary Engineering is anticipated to complete in Q2/Q3 2021.

In November 2020 it is planned to bring forth to the System Expansion Committee Meeting Motion No. M2020-67: Authorizing the chief executive officer to execute a five-year contract with three one-year options to extend with Jacobs Project Management Co. to provide on-call general engineering consultant services for the Stride Bus Rapid Transit program for an initial total authorized contract amount not to exceed \$2,000,000.

The current critical path for the ST 522/NE 145th BRT project is conceptual engineering, environmental review, Right-of-Way (ROW) civil certification, ROW acquisition, preliminary engineering, permitting/agreements, final design, construction, intelligent transportation system (ITS) and service line activation.

*Sound Transit contributed construction funding to certain city(s)/Authorities Having Jurisdiction (AHJ) where construction by contracts managed by those city(s) (e.g. City of Bothell) commenced in Q2 2019 allowing early construction of transit speed and reliability on roadways along the BRT corridor in advance of BRT service operation.

Activity ID	Activity Name	Start	Finish	2019	2020	202
				Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 (
Sound Tra	nsit	26-Feb-18 A	30-Jul-21			
Sound Trans	sit 3	26-Feb-18 A	30-Jul-21			
ST3 - North	n Corridor	26-Feb-18 A	30-Jul-21			
STRIDE - B	lus Rapid Transit - North Corridor	26-Feb-18 A	30-Jul-21			
STRIDE - S	SR 522/NE 145th Bus Rapid Transit (BRT)	26-Feb-18 A	30-Jul-21			
SR 522/NE	145th BRT - Preliminary Engineering	26-Feb-18 A	13-Jul-21			
SR 522/NE	E 145th BRT - Alternatives Analysis - Phase I	26-Feb-18 A	28-Mar-19 A	—		
SR 522/NE	E 145th BRT - Conceptual Engineering/Environmental Review - Phase II	26-Apr-19 A	29-Dec-20			₹
SR 522/NE	E 145th BRT - Preliminary Engineering - Phase III	03-Apr-20 A	13-Jul-21		-	
SR 522/NE	145th BRT - Final Design	31-Jul-19 A	07-Dec-20	_	,	7
SR 522/NE	E 145th BRT - Final Design - GEC (General Engineering Contract)	31-Jul-19 A	07-Dec-20			7
SR522/NE	145th BRT - Final Design - Procurement (GEC)	31-Jul-19 A	07-Dec-20			7
SR 522/NE	145th BRT - Construction	07-Jan-19 A	30-Jul-21			
SR 522/NE	E 145th BRT - Construction - Roadway	07-Jan-19 A	30-Jul-21			
City of Both	nell SR-522 BAT Lanes Project (Bothell Stage 3)	07-Jan-19 A	30-Jul-21			
Construct	ion	07-Jan-19 A	30-Jul-21			

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Community Outreach

Sound Transit is committed to proactively seeking public input during all stages of the Project. The SR522 BRT Community Engagement and Communication Guide establishes a stakeholder engagement process that helps ensure priorities of local communities are heard and considered along with the project-wide goals. The BRT team will collaborate with elected officials, partner staff, and local communities throughout project development. Due to COVD-19 outreach efforts have shifted to virtual platforms.

- 2 property owner meetings
- Phase 3/30% design town hall presentations planning started
- City Managers Group meeting Oct. 15
- Bothell City Council presentation Oct. 20
- Project update for the Yakima Fruit Market decision Oct. 22

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is an annual projection. ST staffing variance is less than planned as some of the activities of the project are on pause waiting for realignment decision. Consultant variance is explained by executed change orders due to change in design.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	13.8	11.5	(2.3)
Consultants	24.0	26.6	2.6
TOTAL	37.8	38.1	0.3

* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Regional Express & STRIDE Bus on Shoulder



Project Summary

Scope

This program provides opportunities for buses to use shoulders on freeway and state route facilities during periods of congestion in general traffic and/or HOV lanes. This program will require coordination and further study with transit partners, WSDOT and Federal Highway Administration in order to determine locations that may be feasible.



Examples of Bus-on-Shoulder facilities

Phase Plan

Planning—Conceptual Engineering and

Environmental Review

Budget

\$3.6 Million—Planning Phase

\$0.3 Million—Construction Phase

Schedule

Open for Service date will depend on Board direction from realignment process.



Key Project Activities

- Investigating potential options for procuring conceptual engineering and environmental documentation work for BOS candidate segments.
- Further discussions with WSDOT and partner transit agencies are planned pending direction from the ST Board's
 realignment process. Discussions will verify and refine the expected benefits and early cost estimates for the candidate
 projects.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

Since September 2020, the project cost incurred to date increased by \$200 not enough to be seen in the rounded figures on the next page.

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Regional Express & STRIDE Bus on Shoulder

Cost Summary by Phase

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$0.9	\$0.1	\$0.1	\$0.9	\$0.0
Preliminary Engineering	\$2.2	\$0.0	\$0.0	\$2.2	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.4	\$0.4	\$0.4	\$0.4	\$0.0
Construction	\$0.3	\$0.3	\$0.3	\$0.3	\$0.0
ROW	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
Total	\$3.9	\$0.8	\$0.8	\$3.9	\$0.0

Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment. The project is experiencing COVID-19 related delays. As a result dates including Revenue Service will depend on Board direction from the realignment process. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown

A feasibility study was completed in Q2 2019, identifying and evaluating an initial list of candidate BOS projects. Follow-up staff work to verify the initial projects, identify additional potential projects, develop potential evaluation criteria and lay out next steps for the program was completed in December 2019.

Bus on Shoulder improvement projects may be designed, constructed and brought into service over a multiple year period. Potential candidate projects under consideration:

- I-5 Ash Way HOV Direct Access to Lynnwood HOV Direct Access SB inside
- SR 900 I-5 off-ramp to S 129th St SB outside
- I-5 Michigan St S on-ramp to West Seattle Bridge/S Spokane St NB outside
- SR 410 171st Ave Ct E to Veterans Memorial Dr E EB outside
- I-5 S 375th St to Port of Tacoma Rd SB inside
- I-5 S 84th St to SR 512 (including off-ramp & intersection) SB outside

Activity Name	Start	Finish			. 20)19			20	20			202	21
			Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 (Q2	Q3
Sound Transit	05-Jun-18 A	31-Aug-21										•		7
Sound Transit 3	05-Jun-18 A	31-Aug-21												_
ST3 - East Corridor	05-Jun-18 A	31-Aug-21												_
Bus on Shoulders	05-Jun-18 A	31-Aug-21												_
Preliminary Engineering	05-Jun-18 A	31-Aug-21												_
Alternative Analysis - Phase I	05-Jun-18 A	31-Dec-19 A						Y						
Conceptual Engineering - Phase II	01-Jan-20 A	31-Aug-21					•							—

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Regional Express & STRIDE Bus on Shoulder



Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks. The following are the top project wide risks:

- The right combination of factors must be present to implement Bus on Shoulder operation: sufficient transit service and ridership along a roadway segment; service that is adversely affected by roadway congestion; and physical and operating conditions along a roadway segment's shoulder that can accommodate improvements to its length, width, pavement, etc.
- Candidate projects must benefit one or more of the three contributing subareas.
- Washington State Patrol and other emergency responders also use shoulders for enforcement and hazard response.
 Facilitating WSP and emergency responder needs may preclude bus operation on candidate roadway segments or require certain types of improvements beyond shoulder modifications.

Community Outreach

- Outreach activities are minimal at this time.
- We are monitoring outreach needs for the project and are available to answer any questions from the public.

Staffing Summary

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Variance is explained by the fact that project is on pause until realignment process is finalized.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	0.7	0.1	(0.6)
Consultants	n/a	n/a	n/a
TOTAL	0.7	0.1	(0.6)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Regional Express & STRIDE Bus on Shoulder

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Regional Express & Bus Rapid Transit North Sammamish Park & Ride



Project Summary

Scope The North Sammamish Park-and-Ride is a

planned parking facility with up to 200 spaces in the northern portion of the City of

Sammamish.

Phase Conceptual Engineering and Environmental

Review

Budget \$20 Million

Schedule Open for Service date will depend on

Board direction from realignment process.



North Sammamish Park & Ride project area

Key Project Activities

- Coordination with City of Sammamish.
- Project is on hold from advancing to the next phase as due to the realignment process.

Project Cost Summary

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This month's expenditure is due to progress made by Sound Transit staff time.

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$0.8	\$0.3	\$0.3	\$0.8	\$0.0
Preliminary Engineering	\$1.1	\$0.0	\$0.0	\$1.1	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.1	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$2.1	\$0.3	\$0.3	\$2.1	\$0.0

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Regional Express & Bus Rapid Transit North Sammamish Park & Ride

Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The following are the top project wide risks:

- City Staff and councilmembers have vocalized interest in a joint parking/City services facility. There is a risk that the City will request additional time to explore and propose a joint development that would involve a structured park and ride.
- Constructing a structured lot would likely pose schedule and budgetary risks to the project. Prolonging the decision on project scope and delivery method may also pose a risk to delivering the project on time.

Project Schedule

The Board of Directors is conducting a capital program realignment of project schedules to meet lower revenue levels caused by the COVID-19 pandemic. This project is part of the assessment and is experiencing COVID-19 related delays. During the realignment process only near-term schedule activities or those for which a funding agreement, contract, statement of work, or similar commitment has been executed are shown. As a result dates including Open For Service Date will depend on Board direction from realignment process.

Following board realignment and further discussions with the City, the project team will advance toward Phase Gate 2 Select Delivery Method. Once there is agreement on project delivery method, the team will proceed with procuring consultants to conduct conceptual engineering and environmental review, followed by preliminary engineering, final design and construction.

Activity ID Activity Name	Start	Finish	2019 Q1 Q2 Q3 Q4	2020 Q1 Q2 Q3 Q4	2021 Q Q2 Q3 Q
Sound Transit	03-Aug-18 A	14-Oct-21			
Sound Transit 3	03-Aug-18 A	14-Oct-21			
ST3 - East Corridor	03-Aug-18 A	14-Oct-21			
North Sammamish Park-and-Ride Master Schedule	03-Aug-18 A	14-Oct-21			
Preliminary Engineering	03-Aug-18 A	14-Oct-21			
Alternative Analysis - Phase I	03-Aug-18 A	14-Oct-21			7

Community Outreach

- Outreach activities are minimal at this time.
- We are monitoring outreach needs for the project and are available to answer any questions from the public.

Sound Transit Board Actions

Board Action	Description	Date
	None to report this period.	

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Progress Report Capital Program Support



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Capital Program Support Grants



Current Grant Funding (Includes only Active Executed Grants)

Line of Service	Grant ID	Project	Award Amount		Date Executed	Life to Date Drawdowns (thru Sept. 2019)
Federal Trans	it Administration (FTA)					
Link	WA-03-0237	University Link FFGA	\$	684,370,641	9/16/15	\$ 612,915,262
Link	WA-95-X061	Tacoma Link Expansion	\$	5,599,943	8/27/15	\$ 5,312,208
Link	WA-95-X067	East Link: Overlake Village Ped Bridge	\$	6,606,585	8/8/14	\$ 6,606,566
Link	WA-95-X073	East Link: Bellevue Way HOV Improvements (S Bell P&R to I-90) Links to Opportunity:	\$	2,200,000	8/8/14	\$ 444,950
Link	WA-2016-007	Enhancements to Tacoma Link	\$	2,000,000	8/11/16	\$ 1,589,328
Link	WA-2016-012	Tacoma Link Expansion light rail vehicles	\$	6,000,000	5/17/17	\$ 1,239,493
Sounder	WA-2018-015	Sounder Rolling Stock	\$	3,700,363	3/8/18	\$ -
Link	WA-2018-024	Northgate Link Extension	\$	25,758,494	5/9/18	\$ 25,758,494
Link	WA-2018-030	Federal Way Link Extension	\$	4,509,494	6/5/18	\$ 4,509,494
Link	WA-2017-006	Tacoma Link Expansion (TIGER)	\$	15,000,000	3/28/17	\$ 15,000,000
Link	WA-2018-013	Tacoma Link Extension	\$	74,999,999	5/15/18	\$ 18,221,696
Sounder	WA-2018-081	Puyallup Station Access Improvements	\$	6,700,000	11/16/18	\$ 1,542,126
Link	WA-2018-082	Downtown Redmond Link Ext	\$	600,000	11/16/18	\$ -
Link	WA-2019-001	Linkwood Link Extension	\$	300,000,000	12/19/18	\$ 158,260,613
REX	WA-2019-023	Bus Replacements	\$	1,375,000	4/19/19	\$ -
REX	WA-2019-024	Bus Replacements	\$	4,920,406	4/19/19	\$ 4,920,406
REX	WA-2019-018	HIMB Bus Preventative Maintenance	\$	9,241,266	4/16/19	\$ 9,241,266
Link	WA-2019-025	HIFG Rail Prev Maint	\$	20,756,842	4/20/19	\$ 20,756,842
Other Federal						
Systemwide	EMW-2017-RA-00018	Video Monitoring System and Security Program	\$	662,238	11/2/17	\$ -
Systemwide State	EMW-2019-RA-00014	Systemwide Security	\$	1,315,813	9/1/19	\$ -
Link	GCB2114	Tacoma Link Expansion				
		,	\$	5,000,000	3/28/17	\$ 4,999,999
		TOTAL ALL GRANTS	\$	1,062,899,717		\$ 813,571,344

Above table as of 3rd QTR 2020. This section is updated every quarter.

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Capital Program Support Environmental Affairs & Sustainability



Sustainability

Sustainability is at the core of Sound Transit's mission to connect more people to more places efficiently, affordably, reliably and in an environmentally friendly manner. Investing in transit builds a better future, maintains a clean environment, and supports both healthy communities and vibrant economies. At Sound Transit, sustainability is about more than the natural environment – it is a holistic goal that protects and enhances people, planet and prosperity.

In 2020, Sound Transit continues to carry out a wide range of projects, with increased focus on integrating sustainable design into capital expansion – from planning and final design to construction. With the passage of the ST3 Plan, a fully funded Sustainability Program will integrate green building and infrastructure in projects across all phases of development.

Sound Transit continues to implement our Sustainability Initiative through our internationally certified (ISO 14001) Environmental and Sustainability Management System (ESMS). The agency also continues to be a transit industry leader through our ongoing participation in APTA's Sustainability Commitment at the platinum recognition level.

Key Q3 2020 Accomplishments and Activities

- Completed Environmental and Sustainability Management System internal audit.
- Conducted internal staff engagement on Sustainability Progress Report.
- Presented Sustainability Progress Report to the Sound Transit Board of Directors.
- Attended and presented at APTA Sustainability Workshop.
- Attended and presented at Seattle Go Green conference.
- Held sustainability charrette for West Seattle to Ballard Link Extension.

Key Upcoming Activities for Q4 2020

- Conduct ISO 14001 Registration Audit.
- Conduct staff outreach on Efficiency and Sustainability Program.
- Begin developing Environmental and Sustainability targets for 2021.

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Progress Report

Acronyms



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AA	Alternative Analysis	FHWA	Federal Highway Administration
AHU	Air Handling Units		Final Supplemental Environmental Impact
ALTA	American Land Title Association	FSEIS	Statement
BCE	Baseline Cost Estimate	FFGA	Full Funding Grant Agreement
BCWS	Budgeted Cost of Work	FTA	Federal Transit Administration
BIM	Building Information Modeling	FTE	Full Time Employee
BNSF	Burlington Northern Santa Fe Railway	GC/CM	General Contractor /Construction Management
BOS BRT	Bus on Shoulder Bus Rapid Transit	GEC	General Engineering Contract
CCB	Change Control Board	HVAC	Heating, Ventilation and Air Conditioning
CDF	Controlled Density Fill	ICD	Integration Control Document
CHS	Capitol Hill Station	IFB	Issue for Bids
CM	Construction Management		Issue for Construction, also Industry
CMU	Concrete Masonry Unit	IFC	Foundation Classes
CO	Change Order	IRT	Independent Review Team
CPI	Cost Performance Index	IWP	Industrial Waste Permit
CPM	Critical Path Method	JA	Jacobs Associates
	Department of Archaeology & History Preservation	JARPA	Joint Aquatic Resource Permit Application
DAHP		KCM	King County Metro
DART	Days Away, Restricted or Modified	LNTP	Limited Notice to Proceed
DB	Design -Build	LRRP	Light Rail Review Panel
DBPM	Design-Build Project Management	LRT	Light Rail Transit
		LRV	Light Rail Vehicle
DCE	Document Categorical Exclusion	LTK	LTK Engineering Services
DECM	Design, Engineering and Construction Man-	MACC	Maximum Allowable Construction Cost
DEIS	agement Draft Environmental Impact Statement	MEPF	Mechanical/Electrical/Plumbing/Fire Sprinkler
		MLK	Martin Luther King, Jr. Way
DP	Design Package	MOA	Memorandum of Agreement
DPD	Seattle Department of Planning and Develop-	MOU	Memorandum of Understanding
DSC	ment Differing Site Conditions	MOW	Maintenance of Way
DSDC	Design Support During Construction	MPPCV	Major Public Project Construction Variance
DSTT	Downtown Seattle Transit Tunnel	MRB	Material Review Board
EFC	Estimated Final Cost	MUP	Master Use Permit
EMI	Electro Magnetic Interference	NB	Northbound
ERC	East Rail Corridor	NCR	Notification of Change Report
FAT	Factory Acceptance Test	NCTP	North Corridor Transit Partners
FD	Final Design	NEPA	National Environmental Policy Act

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ACRONYMS



NOAA	National Oceanic and Atmospheric Admin-	TBM	Tunnel Boring Machine
	istration	TCAL	Temporary Construction Airspace Lease
NPDES	National Pollutant Discharge Elimination System	TCE	Temporary Construction Easement
NTP	Notice to Proceed	TE	Traction Electrification
OCS	Overhead Catenary System	TFK	Traylor Frontier Kemper Joint Venture
OMF	Operations and Maintenance Facility	TOD	Transit Oriented Development
OMSF	Operations and Maintenance Satellite Facility	TVM	Ticket Vending Machine
PE	Preliminary Engineering	UAC	Unallocated Contingency
PEP	Project Execution Plan	U-Link	University Link project
DEDD	Planning, Environment and Project Develop-	UDS	University District Station
PEPD	ment	USFWS	U.S. Fish and Wildlife Service
PMOC	Project Management Oversight Consultant	UW	University Of Washington
PSST	Pine Street Stub Tunnel	UST	Underground Storage Tank
QA	Quality Assurance	UWS	University of Washington Station
QC	Quality Control	VAV	Variable Air Volume
QTR	Quarter	VE	Value Engineering
RE	Resident Engineer	VECP	Value Engineering Cost Proposal
RFC	Request for Change	WBS	Work Breakdown Structure
RFD	Request for Deviation		
RFI	Request for Information	WDFW	Washington Department of Fish and Wildlife
RFP	Request for Proposal	WSDOT	Washington Department of Transportation
RFQ	Request for Qualifications		
RIR	Recordable Injury Rates		
RMP	Risk Management Plan		
ROD	Record of Decision		
ROW	Right -of -Way		
SB	Southbound		
SCADA	Supervisory Central and Data Acquisition		
SCC	Standard Cost Categories		
SCL	Seattle City Light		
SDEIS	Supplemental Draft Environmental Impact Statement		
SEPA	State Environmental Policy Act		
SIP	Street Improvement Permitting		
SPI	Schedule Performance Index		
SR	State Route		
ST	Sound Transit		
START	Seattle Tunnel and Rail Team		
SWI	Stacy and Witbeck, Inc.		

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