



Motion No. M2020-34

Contract Modification with LTK Engineering Services, LLC for the Hilltop Tacoma Link Extension

Meeting:	Date:	Type of action:	Staff contact:
System Expansion Committee	06/11/2020	Final action	Ron Lewis, DECM Executive Director Madeleine Greathouse, Project Director – Hilltop Tacoma Link Extension Shankar Rajaram, Engineering Manager – Rail Vehicles

Proposed action

Authorizes the chief executive officer to execute a contract modification with LTK Engineering Services, LLC to provide light rail vehicle engineering and inspection consultant services for the Hilltop Tacoma Link Extension in the amount not to exceed \$1,816,194, with a 10 percent contingency of \$181,619 totaling \$1,997,814, for a new total authorized contract amount not to exceed \$19,981,033, contingent upon Board approval of Resolution No. R2020-12.

Key features summary

- The proposed action modifies the contract with LTK Engineering Services, LLC to provide inspection and commissioning services for five light rail vehicles (LRV) needed for the Hilltop Tacoma Link Extension (HTLE). This action was planned and included in the HTLE baseline scope and budget.
- This modification provides funding for LRV engineering reviews, inspection and commissioning services for the Hilltop Tacoma LRVs during manufacturing and commissioning of the vehicles. Previous modification provided funding for LTK's services during the development of technical specifications, procurement of the LRV manufacturer contract, and during design of the Hilltop Tacoma vehicles.
- The requested amount includes engineering and inspection services through the manufacturing, commissioning and final acceptance of the five Tacoma LRVs. Commissioning and Conditional Acceptance of the five LRVs is anticipated to be completed by 2Q 2022, to support the revenue service date of May 2022.

Background

The Hilltop Tacoma Link Extension is a 2.4 mile extension of light rail from the Theater District in downtown to the Hilltop neighborhood in Tacoma. The extension will travel at-grade, in-street with traffic along Stadium Way, North 1st Street, Division Avenue, and Martin Luther King Jr. Way. The project includes six new stations, relocates the Theater District Station, expands the existing Tacoma Operations and Maintenance Facility (OMF), and provides for additional light rail vehicles.

Revenue service for the extension is forecast for May 2022.

Tacoma Link currently operates three light rail vehicles along the existing 1.6-mile alignment. The new fleet of vehicles will provide the additional capacity required to support the Hilltop Tacoma Link Extension.

In April 2016, the Board approved the planned contract amendment to exercise the option for LTK Engineering, LLC services contract to include the Tacoma Link vehicles procurement. The scope of the modification included support for preparation of the final contract documents, vehicle specifications, report, schedules and cost estimates for the five new vehicles. Staff proposed to add the inspection and commissioning services at a later date when there would be certainty regarding whether the car builder would be a domestic or international manufacturer. The contract to design and manufacture the Tacoma Link vehicles was awarded to Brookville Engineering Corporation, a domestic business, in December 2017.

The current Hilltop Tacoma Link Extension project budget includes the services in this action.

This action will increase the contract amount to provide inspection and commissioning services for the Brookville vehicles being manufactured by Brookville.

Project status

○					
Project Identification	Project Refinements	Conceptual Engineering/ Environmental Review	Preliminary Engineering	Final Design	Construction

Projected completion date for Construction Phase: 1Q 2022

Project scope, schedule and budget summary are located on page 95 of the March 2020 Agency Progress Report Capital Programs.

Procurement information

A Request for Qualifications (RFQ) for procurement of the ST2 Light Rail Vehicles (LRV) Engineering and Inspection Consultant Services, which included an option for the Tacoma Link vehicles was issued in January 2014. Sound Transit received four Statement of Qualifications on February 25, 2014. Sound Transit reviewed and evaluated the Statements of Qualifications per the criteria in the RFQ.

LTK was determined to be the highest ranked firm based on qualifications, and was invited to enter into negotiations for a fair and reasonable price. On July 24, 2014, contract RTA/AE 0183-13 was executed to provide engineering and inspection services to support the purchase of new light rail vehicles. After approval by the Board in April 2016, the contract was modified to exercise a contract option to add LTK services for the Tacoma Link vehicles, and included funding for the services during the development of technical specifications, procurement of the vehicle manufacturer contract, and during design of the Hilltop Tacoma vehicles. This action adds funding for the final phases of inspection and commissioning of the vehicles. Negotiations have been initiated and a price not to exceed amount of this action has been determined to be fair and reasonable.

Fiscal information

This action is within the baseline budget and sufficient monies remain after approval of this action to fund the remaining work in the vehicles phase.

The baseline budget for the Hilltop Tacoma Link Extension is \$252,746,000. Within the vehicles phase, \$3,050,000 has been allocated to LTK Engineering Services for light rail vehicle engineering and inspection consultant services. The action would commit \$1,997,814 to this line item and leave a budget balance of \$29,688.

Hilltop Tacoma Link Extension

(in thousands)

Project Phase	Baseline Budget	Board Approvals	This Action	Board Approved Plus Action	Uncommitted / (Shortfall)
Agency Administration	\$21,578	\$12,283		\$12,283	\$9,295
Preliminary Engineering	5,559	5,559		5,559	0
Final Design	14,098	13,798		13,798	300
Third Party	1,466	1,396		1,396	70
Right of Way	2,270	2,189		2,189	82
Construction	156,696	154,697		154,697	1,998
Construction Services	12,361	11,489		11,489	872
Vehicles	33,392	31,257	1,998	33,255	137
System Testing + Startup	5,326	1,534		1,534	3,792
Total Current Budget	\$252,746	\$234,203	\$1,998	\$236,201	\$16,545
Phase Detail - Vehicles					
LTK Engineering Services	\$3,050	\$1,022	\$1,998	\$3,020	30
Other Vehicles	30,342	30,235		30,235	107
Total Vehicles Phase	\$33,392	\$31,257	\$1,998	\$33,255	\$137

LTK Engineering Services, LLC. Contract Detail	Board Approvals to Date	Current Approved Contract	Proposed Action	Proposed Total for Board Approval
Hilltop Tacoma LE Contract Amount	\$1,950	\$1,950	\$1,816	\$3,766
Hilltop Tacoma LE Contingency			182	182
Total Hilltop Tacoma LE Contract Amou	\$ 1,950	\$ 1,950	\$ 1,998	\$ 3,948
LRV Fleet Expansion Contract Amount	15,003	\$15,003		15,003
LRV Fleet Expansion Contingency Amount	1,030	\$1,030		1,030
Total LRV Filet Expansion Contract Amo	\$ 16,033	\$ 16,033		\$ 16,033
Total Contract	16,953	16,953	1,816	18,769
Total Contingency	1,030	1,030	182	1,212
Total Contract Amount	17,983	17,983	1,998	19,981

Notes:

Amounts are expressed in Year of Expenditure \$000s.
 Board Approvals = Commitment and PO Contingency Remaining as of 6/4/2020.
 For detailed project information, see page 91 in the 2020 Finance Plan and Adopted Budget Book.

Disadvantaged and small business participation

Sound Transit promotes and encourages small business participation, which also includes disadvantaged business enterprises (DBEs). Consistent with Sound Transit Policies and federal regulations, Sound Transit has established small business/DBE goals for this contract. These goals were based upon an examination of subcontracting opportunities contained in the work of this contract and the number of small businesses/DBEs available to perform such subcontracting work.

For this specific contract, the following goals were set and LTK Engineering has committed to the following small Business/DBE participation:

Small business and disadvantaged business enterprise (DBE) goals	
Sound Transit Small Business goal: 6%	Small business commitment: 6%
DBE goal: 6%	DBE commitment: 6%

Public involvement

Not applicable to this action

Time constraints

A one-month delay could impact the project schedule by limiting consultant services providing agency oversight of the light rail vehicle manufacturer.

Prior Board/Committee actions

Motion No. M2019-12: Authorized the chief executive officer to execute a contract modification with LTK Engineering Services LLC to provide light rail vehicle engineering consulting and inspection services for ST2 and ST3 light rail system expansion projects in the amount of \$10,304,751, with a 10% contingency of \$1,030,475, totaling \$11,335,226, for a new total authorized contract amount not to exceed \$17,983,219.

Motion No. M2016-42: Authorized the chief executive officer to amend the contract with LTK Engineering Services, LLC to provide light rail vehicle engineering and inspection consultant services for the Tacoma Link Expansion in the amount of \$1,950,000 for a new total contract amount of \$6,647,993.

Motion No. M2014-46: Authorized the chief executive officer to execute a contract with LTK Engineering Services, LLC to provide light rail vehicle engineering and inspection services for the Northgate Link Extension for a total authorized contract amount not to exceed \$4,697,993.

Environmental review – LS 6/3/2020

Legal review – JSA 6/8/20



Motion No. M2020-34

A motion of the System Expansion Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract modification with LTK Engineering Services, LLC to provide light rail vehicle engineering and inspection consultant services for the Hilltop Tacoma Link Extension in the amount not to exceed \$1,816,194, with a 10 percent contingency of \$181,619 totaling \$1,997,814, for a new total authorized contract amount not to exceed \$19,981,033, contingent upon Board approval of Resolution No. R2020-12.

Background

The Hilltop Tacoma Link Extension is a 2.4 mile extension of light rail from the Theater District in downtown to the Hilltop neighborhood in Tacoma. The extension will travel at-grade, in-street with traffic along Stadium Way, North 1st Street, Division Avenue, and Martin Luther King Jr. Way. The project includes six new stations, relocates the Theater District Station, expands the existing Tacoma Operations and Maintenance Facility (OMF), and provides for additional light rail vehicles.

Revenue service for the extension is forecast for May 2022.

Tacoma Link currently operates three light rail vehicles along the existing 1.6-mile alignment. The new fleet of vehicles will provide the additional capacity required to support the Hilltop Tacoma Link Extension.

In April 2016, the Board approved the planned contract amendment to exercise the option for LTK Engineering, LLC services contract to include the Tacoma Link vehicles procurement. The scope of the modification included support for preparation of the final contract documents, vehicle specifications, report, schedules and cost estimates for the five new vehicles. Staff proposed to add the inspection and commissioning services at a later date when there would be certainty regarding whether the car builder would be a domestic or international manufacturer. The contract to design and manufacture the Tacoma Link vehicles was awarded to Brookville Engineering Corporation, a domestic business, in December 2017.

The current Hilltop Tacoma Link Extension project budget includes the services in this action.

The proposed action modifies the contract with LTK Engineering Services, LLC to provide inspection and commissioning services for five light rail vehicles (LRV) needed for the Hilltop Tacoma Link Extension (HTLE). This action was planned and included in the HTLE baseline scope and budget.

This modification provides funding for LRV engineering reviews, inspection and commissioning services for the Hilltop Tacoma LRVs during manufacturing and commissioning of the vehicles. Previous modification provided funding for LTK's services during the development of technical specifications, procurement of the LRV manufacturer contract, and during design of the Hilltop Tacoma vehicles.

The requested amount includes engineering and inspection services through the manufacturing, commissioning and final acceptance of the five Tacoma LRVs. Commissioning and Conditional Acceptance of the five LRVs is anticipated to be completed by 2Q 2022, to support the revenue service date of May 2022.

Motion

It is hereby moved by the System Expansion Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract modification with LTK Engineering Services, LLC to provide light rail vehicle engineering and inspection consultant services for the Hilltop Tacoma Link Extension in the amount not to exceed \$1,816,194, with a 10 percent contingency of \$181,619 totaling \$1,997,814, for a new total authorized contract amount not to exceed \$19,981,033, contingent upon Board approval of Resolution No. R2020-12.

APPROVED by the System Expansion Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on June 11, 2020.



Claudia Balducci
System Expansion Committee Chair

Attest:



Kathryn Flores
Board Administrator