

MOTION NO. M2010-95
Systems Engineering Final Design Services for the North Link – UW Station to Northgate Project

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:	PHONE:
Capital Committee	11/04/10	Recommendation to Board	Ahmad Fazel, DECM Executive Director	206-398-5389
Board	11/18/10	Final Action	Justin Garrod, Senior Systems Engineer	206-398-5384

PROPOSED ACTION

Authorizes the chief executive officer to exercise an option with LTK Engineering Services, LLC to provide systems engineering final design services for the North Link – UW Station to Northgate project in the amount of \$6,239,000, with a 10% contingency of \$623,900, totaling \$6,862,900, for a new total authorized contract amount not to exceed \$16,785,872.

KEY FEATURES

- In 2007, through a qualifications-based procurement, Sound Transit contracted with LTK Engineering Services, LLC to perform systems engineering final design services for University Link. The contract included options for North Link final design and design services during construction.
- LTK Engineering is currently providing systems engineering final design services for University Link. The proposed action would authorize the execution of an option to perform systems engineering final design for the North Link – UW Station to Northgate project.
- The scope of work includes systems design, integration of systems elements with civil design, and special Electro-Magnetic Interference mitigation required to meet the terms of the Sound Transit/University of Washington Agreement. This action will bring the North Link – UW Station to Northgate project systems design from 30% to 100% design completion.
- Final design for the North Link – UW Station to Northgate project is expected to take approximately 38 months with completion anticipated in early 2014. Concurrent with Board consideration of this action, staff is seeking Board approval to amend the contract for design services during construction for the University Link project. If the Board approves that amendment, the term of the contract will be extended accordingly.

PROJECT DESCRIPTION

The North Link – UW Station to Northgate project is a 4.3-mile extension of light rail from the University of Washington Station to Northgate, with approximately 3.1 miles in twin-bored tunnels with two cut-and-cover stations serving the University District (Brooklyn Station) and Roosevelt neighborhoods. The alignment then transitions to an elevated guideway and station near the Northgate Transit Center serving the surrounding Northgate area communities and North Seattle.

FISCAL INFORMATION

Budget Table

(Year of Expenditure \$000)

North Link - UW Station to Northgate

	Adopted 2010 Lifetime Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
Agency Administration	49,461	2,665		2,665	46,796
Preliminary Engineering	18,818	15,982		15,982	2,836
Final Design	82,374	67,916	6,863	74,779	7,595
Right of Way	164,820	38,010		38,010	126,810
Construction	8,733	8,052		8,052	681
Construction Services	300	-		-	300
Third Party Agreements	20,994	1,194		1,194	19,801
Vehicles	-	-		-	-
Total Current Budget	345,500	133,817	6,863	140,680	204,819

Final Design Phase

Final Design	82,374	67,916	6,863	74,779	7,595
Total Phase	82,374	67,916	6,863	74,779	7,595

Contract Amount	Board Approvals to Date (F)	Current Approved Contract Value (G)	Proposed Action (H)	Proposed Total for Board Approval (I)	Proposed Contract Value (J)
Contract Amount	9,021	9,807	6,239	15,260	16,046
Contingency	902	116	624	1,526	740
Total Contract	9,923	9,923	6,863	16,786	16,786
Percent Contingency	10%	1%	10%	10%	5%

(A) ADOPTED 2010 LIFETIME BUDGET amounts reflect Adopted 2010 Budget as amended by resolution of the Sound Transit Board in February 2010 to add final design and property acquisition (R2010-02, adopted 2/25/10).

(B) COMMITTED TO DATE amounts are from Agency WBS Report as of August 2010 + approved and pending board actions not recorded as of 8/31/10, or submitted after that date.

SMALL BUSINESS PARTICIPATION

Sound Transit Goal: 17%

Commitment: 17.2%

Subconsultant/Subcontractor	Business Type	% of Work	Dollar Value
Bolima	Small Business	8.9%	\$545,106
The Greenbusch Group	DBE	1.8%	\$107,449
Triunity	DBE	0.6%	\$36,875
Hatfield & Dawson Consulting Engineers	Small Business	2.4%	\$146,318
Seaborn (QA)	DBE	3.0%	\$184,715
Pacific Communications Consultants, Inc.	DBE	.5%	\$31,374
Total		17.2%	\$1,051,837

EQUAL EMPLOYMENT WORKFORCE PROFILE

280 employees; 21% women; 15% minorities.

BACKGROUND

The North Link extension to Northgate was identified as a high, but unfunded priority in the Sound Move plan. Preliminary engineering for North Link was completed in Spring 2006. The Federal Transit Administration (FTA) issued the Record of Decision (ROD) in June 2006, completing the environmental review process. North Link is a key component of the ST2 Plan and is the ST2 project with the highest forecast ridership. The project will increase Link ridership, improve travel time savings, improve frequency and reliability, and add transit capacity in the congested I-5 corridor.

The ST2 plan calls for revenue service for this segment to begin in 2020. In order to meet this objective, final design must begin by the end of 2010, allowing 10 years for design, construction and startup of the system. This duration is consistent with the current schedule for the University Link project.

This contract was awarded through a qualifications-based procurement in 2007 at the start of University Link final design. The contract included an option to add the North Link final design based on the similar nature and close proximity to the University Link design work effort.

LTK will provide final design services for the systems elements of the North Link Project. The LTK team includes approximately seven subconsultants with expertise in systems design, integration of systems elements, Electro-Magnetic Interference, vibration mitigation, cost estimating, scheduling, QA/QC, and other areas of expertise.

ENVIRONMENTAL COMPLIANCE

Environmental compliance pursuant to the National Environmental Policy Act (NEPA) and State Environmental Policy Act (SEPA) was complete with the North Link Final Supplemental Environmental Impact Statement (EIS) issued on April 7, 2006. The Federal Transit Administration issued a Record of Decision for North Link in June 2006.

Jl 10/11/10

PRIOR BOARD/COMMITTEE ACTIONS

Motion No. M2009-65 – Authorized the chief executive officer to execute a contract amendment with LTK Engineering Services, LLC to provide additional systems engineering final design work, design services during construction, and light rail vehicle inspection and test support services required for the University Link project in the amount of \$1,579,576, with a contingency of \$158,023, totaling \$1,737,599, for a new total authorized contract amount not to exceed \$9,922,972.

Motion No. M2008-52 – Authorized the chief executive officer to execute a contract amendment with LTK Engineering Services to complete systems design and contract documents to the Issue-for-Bid level (100%) for the University Link project in the amount of \$844,357, with a 10% contingency of \$84,436 totaling \$928,793, for a new total authorized contract amount not to exceed \$8,185,373.

Motion No. M2007-51 – Authorized the chief executive officer to execute a contract with LTK Engineering Services, LLC to provide systems engineering final design services for the University Link Project in the amount of \$6,596,891 with a 10% contingency of \$659,689, for a total authorized contract amount not to exceed \$7,256,580.

TIME CONSTRAINTS

A one month delay would affect the civil and systems interface with the civil final design consultant.

PUBLIC INVOLVEMENT

Not applicable to this action

LEGAL REVIEW

LA 11/1/2010



MOTION NO. M2010-95

A motion of the Board of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to exercise an option with LTK Engineering Services, LLC to provide systems engineering final design services for the North Link – UW Station to Northgate project in the amount of \$6,239,000, with a 10% contingency of \$623,900, totaling \$6,862,900, for a new total authorized contract amount not to exceed \$16,785,872.

BACKGROUND:

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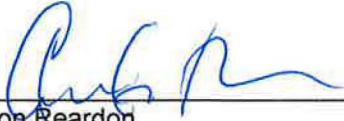
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Final design for the North Link – UW Station to Northgate project is expected to take approximately 38 months with completion anticipated in early 2014.

MOTION:

It is hereby moved by the Board of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to exercise an option with LTK Engineering Services, LLC to provide systems engineering final design services for the North Link – UW Station to Northgate project in the amount of \$6,239,000, with a 10% contingency of \$623,900, totaling \$6,862,900, for a new total authorized contract amount not to exceed \$16,785,872.

APPROVED by the Board of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on November 18, 2010.



Aaron Reardon
Board Chair

ATTEST:



Marcia Walker
Board Administrator