

MOTION NO. M2011-79
University Link Fiber Optic Cable Retrofit Contract

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:	PHONE
Capital Committee	11/10/11	Final Action	Ahmad Fazel, DECM Executive Director Joe Gildner, University Link Executive Project Director Justin Garrod, DECM Senior Systems Engineer	206-398-5389 206-398-5384

PROPOSED ACTION

Authorizes the chief executive officer to execute a contract with Elcon Corporation for installing and testing fiber optic cable for the University Link project in the amount of \$1,545,000, with a 10% contingency of \$154,500, for a total authorized contract amount not to exceed \$1,699,500.

KEY FEATURES

- This contract includes:
 - Surveying existing fiber configuration and fiber termination panels throughout: a) the Operations and Maintenance Facility (OMF), b) Initial Segment, and c) Airport Link.
 - Furnishing and installing fiber optic cables between the OMF and the Pine Street Stub Tunnel (PSST); and
 - Terminating and testing existing fiber optic cables from the PSST to Airport Station in support of the System retrofit work being performed by the University Link Systems Contractor.

PROJECT DESCRIPTION

University Link (U-Link) is a 3.15-mile light rail extension located entirely underground with tunnels traveling east from Pine Street, under the I-5 freeway to an underground station at Capitol Hill, continuing north beneath SR 520 and the Lake Washington Ship Canal to an underground station on the UW campus, near Husky Stadium. The project also includes replacement of Communication System elements across the Initial Segment and Airport Link line with minimal to no disruption to passenger service operations.

FISCAL INFORMATION

Project Budget

University Link	2011 TIP	Board Approvals	This Action	Board	
				Approved Plus Action	Uncommitted / (Shortfall)
Agency Administration	115,229	44,673		44,673	70,556
Preliminary Engineering	24,349	24,266		24,266	82
Final Design	87,633	78,377		78,377	9,256
Right of Way	152,332	125,855		125,855	26,477
Construction	1,158,183	712,111	1,700	713,811	444,372
Construction Services	95,726	80,229		80,229	15,497
Third Party Agreements	18,646	11,568		11,568	7,078
Vehicles	103,909	99,185		99,185	4,724
Total Current Budget	1,756,007	1,176,266	1,700	1,177,965	578,042

Phase Detail

Construction

U860 Fiber Network Install / Test	10,000	-	1,700	1,700	8,301
Other Construction	1,148,183	712,111		712,111	436,072
Total Phase	1,158,183	712,111	1,700	713,811	444,372

Contract Detail

Contract Detail	Board Approvals to Date	Current Approved Contract Status	Proposed Action	Proposed Total for Board Approval
	Contract Amount	-	-	1,545
Contingency	-	-	155	155
Total	-	-	1,700	1,700
Percent Contingency	0%	0%	10%	10%

Notes:

Amounts are expressed in Year of Expenditure \$000s.

Board Approvals = Committed To-Date + Contingency, and includes pending Board actions.

Project Budget is located on page 47 of the 2011 Transit Improvement Plan (TIP).

SMALL BUSINESS PARTICIPATION

Sound Transit Goal: 0%

Commitment: 0%

EQUAL EMPLOYMENT WORKFORCE PROFILE

183 employees; 16% women; 11% minorities.

BACKGROUND

Fiber optic cables transmit large amounts of data throughout the system. For the Initial Segment and Airport Link Projects, the Agency installed a synchronized optical network (SONET) and one supervisory control and data acquisition (SCADA) system that manages train control, building management systems, and fire and life/safety systems. Upgrades to both the systems are necessary to improve the reliability and maintainability.

The SONET will be upgraded to a multi-protocol label switching (MPLS) network and the SCADA system will be upgraded to three separate systems: train control, building management, and fire and life/safety. This contract complements the objectives for upgrading these systems. The installation of fiber optic cables from the OMF to the PSST will allow for future network expansion. In particular, this cable installation will accommodate light rail infrastructure expansion (e.g. North

Link, North Corridor and East Link) without having to pull additional fiber optic cable back to the OMF with each new extension. The University Link systems contract will install all necessary fiber optic cable along with all other systems elements from the PSST to University of Washington station.

In September 2011, an invitation for bid was advertised for a fiber optic cable retrofit contract and two bids were submitted. Elcon Corporation was the lowest, responsive and responsible bidder. Construction is anticipated to begin in January 2012 and be substantially completed before January 2013.

Environmental compliance for University Link pursuant to the National Environmental Policy Act (NEPA) and State Environmental Policy Act (SEPA) was completed 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.

ENVIRONMENTAL COMPLIANCE

Jl 10/12/2011

TIME CONSTRAINTS

A one month delay would not create a significant impact to the project schedule.

PUBLIC INVOLVEMENT

Not applicable to this action.

LEGAL REVIEW

LA 11/3/11

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A motion of the Capital Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract with Elcon Corporation for installing and testing fiber optic cable for the University Link project in the amount of \$1,545,000, with a 10% contingency of \$154,500, for a total authorized contract amount not to exceed \$1,699,500.

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MOTION:

It is hereby moved by the Capital Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract with Elcon Corporation for installing and testing fiber optic cable for the University Link project in the amount of \$1,545,000, with a 10% contingency of \$154,500, for a total authorized contract amount not to exceed \$1,699,500.

APPROVED by the Capital Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on November 10, 2011.



Fred Butler
Capital Committee Chair

ATTEST:



Marcia Walker
Board Administrator