

**SOUND TRANSIT
STAFF REPORT**

MOTION NO. M2003-103

Central Link Surveying Services Contract

Meeting:	Date:	Type of Action:	Staff Contact:	Phone:
Finance Committee	10/2/03	Discussion/Possible Action	Ahmad Fazel, Link Director Dick Sage, Link Deputy Construction Manager	(206) 398-5389 (206) 398-5226

Contract/Agreement Type:	✓	Requested Action:	✓
Competitive Procurement	4	Execute New Contract/Agreement	4
Sole Source		Amend Existing Contract/Agreement	
Interlocal Agreement		Contingency Funds Required	
Purchase/Sale Agreement		Budget Amendment Required	

3Applicable to proposed transaction.

OBJECTIVE OF ACTION

To secure surveying services for the Central Link Initial Segment.

ACTION

Authorizes the Chief Executive Officer to execute a contract with CH2M HILL to provide surveying services for the Central Link Initial Segment, in the amount of \$3,303,286 with a 10% contingency of \$330,328, for a total authorized contract amount not to exceed \$3,633,615, subject to execution of the Full Funding Grant Agreement by the Federal Transit Administration.

KEY FEATURES

- Scope of work includes quality assurance surveying services during construction of the Central Link Initial Segment, between Convention Place Station in the existing Downtown Seattle Transit Tunnel and the new South 154th Station in Tukwila. In order for Sound Transit to have a high level of assurance that construction is located in accordance with the requirements of the construction contract, the surveying consultant must be ready to perform verification surveying on the C700/C810 contractor's survey/construction control points and selected critical construction elements of the projects.
- This contract is for a period of six years, with two optional one-year periods.
- CH2M HILL shall provide services as needed and when directed by Sound Transit.

BUDGET IMPACT SUMMARY

There is no action outside of the Board-adopted budget; there are no contingency funds required, no subarea impacts, or funding required from other parties other than what is already assumed in the financial plan.

BUDGET DISCUSSION

The total adopted capital budget for the Initial Segment is \$2.07 billion. Within the construction services phase of the budget, the current approved budget for surveying services is \$3,985,000. Should the proposed action be approved, the remaining balance for this budget item will be \$351,385.

REVENUE, SUBAREA, AND FINANCIAL PLAN IMPACTS

The proposed action is consistent with the current Board-adopted budget, and is affordable within the agency's long-term financial plan and subarea financial capacity. The action will have no new revenue impacts on Sound Transit.

BUDGET TABLE

Action Item: CH2M-Hill (Surveying Services for Central Link Initial Segment)

(Year of Expenditure \$000)

Initial Segment	Adopted FY2003 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
1 Agency Administration	226,780	108,036		108,036	118,744
2 Preliminary Engineering	35,000	33,358		33,358	1,642
3 Final Design	123,000	111,551		111,551	11,449
4 Right of Way	233,016	116,660		116,660	116,356
5 Construction	1,172,633	156,019		156,019	1,016,614
6 Construction Services	82,464	5,374	3,634	9,008	73,456
7 Third Party Agreements	58,800	42,395		42,395	16,405
8 Vehicles	138,307	-		-	138,307
9 Contingency				-	-
10 Total Current Budget	2,070,000	573,394	3,634	577,027	1,492,973
Phase Budget Detail					
11 Surveying Services	3,985	-	3,634	3,634	351
12 Other construction services	78,479	5,374	-	5,374	73,105
13 Total Phase	82,464	5,374	3,634	9,008	73,456

(B) Committed to Date amounts are from the Link Program Cost Summary Report (HQ Reports) for August 2003 + board motions not yet included in report as follows:

	Final Design	Right of Way	Construction	Construction Svcs	Third Parties
Commitments through August 2003	110,533	116,468	10,400	3,432	26,888
Other board motions	1,019	193	145,619	1,942	15,507
Total phase commitments	111,551	116,660	156,019	5,374	42,395

Contract Budget	Current Approved Contract Value (F)	Spent to Date (G)	Proposed Action (H)	Proposed Total Contract Value (I)
14 Contract Amount			3,303	3,303
15 Contingency			330	330
16 Total	-	-	3,634	3,634
17 Percent Contingency	0%	0%	10%	10%

M/W/DBE – SMALL BUSINESS PARTICIPATION

The small business participation goal for this contract is 18%. CH2M HILL is the prime contractor and has committed to a 43% M/W/DBE and small business goal.

Utilization Breakdown Table

Subconsultant	Business Type	% of Work	Dollar Value
Sanders & Associates, Inc.	W/DBE	28.8%	\$ 951,346
Lin & Associates, Inc.	M/DBE	10.8%	\$ 356,755
True North Land Surveyors, Inc.	W/DBE	3.5%	\$ 115,615
Total		43.1%	\$ 1,423,716

EEO Commitment

CH2M HILL workforce demographics are 37% women and 12% minorities.

Apprentice Utilization Commitment

There are no apprentice utilization requirements, because this is professional services contract.

HISTORY OF PROJECT

On March 5, 2003 Sound Transit requested statements of qualification for Quality Assurance Surveying for the Central Link construction management. On April 2, 2003, Sound Transit received a Statement of Qualifications from five firms. A selection panel evaluated the written proposals and selected two firms for interviews. The selection panel, considering both the written proposal and the interview, selected CH2M HILL.

The approved schedule for the Link Light Rail Initial Segment assumes the start of construction in the fall of 2003. The construction will begin with Contracts C700 (Royal Brougham to Airport Way South) and C810 (Central Link Operations and Maintenance Base). The C700 contract includes the construction of at-grade and aerial light rail facilities, from South Royal Brougham Way to Airport Way South. The C810 contract for the construction of the operations and maintenance facility for Central Link includes the administrative building, maintenance facilities and rail yard.

Preliminary surveying for design and layout of system wide primary control lines, control monuments and bench marks for the Central Link Light Rail system was performed under the preliminary engineering contract with Puget Sound Transit Consultants.

Construction contractors have the primary responsibility for survey work necessary for construction staking and determination of payment quantities. The Central Link surveying consultant shall assist in Sound Transit's construction management program by verifying that construction survey work and the placement of the construction work by the contractors meets contract specification for each contract.

The surveying services on the project may include, but not be limited to, the following:

- Horizontal and vertical geometric alignment verification,
- Structure and utility layout and clearance verification, right-of-way and easement verifications,
- Verification of measurements made for payment quantities,
- Specialized tunnel surveying including alignment and deformation measurements,

- General quality assurance surveillance of survey work and the placement of the construction work performed by construction contractors,
- Provide professional surveyor services regarding interpretation of survey results and related issues, as may be requested by Sound Transit.

**Prior Board or Committee Actions
and Relevant Board Policies**

Motion or Resolution Number	Summary of Action	Date of Action
R2001-16	Selected the initial segment of the Central Link Light Rail Project to be constructed and operated by 2009.	11/29/01
M2003-80	Authorized the Chief Executive Officer to execute a contract with Kiewit Pacific Company for the construction of Contract C700 (E-3 Busway/Forest Street), in the amount of \$40,691,061 with a 10% contingency of \$4,069,106, for a total authorized contract amount not to exceed \$44,760,167, subject to the execution of the Full Funding Grant Agreement.	8/14/03
M2003-81	Authorized the Chief Executive Officer to execute a contract with Kiewit Pacific Company (the apparent low bidder) for the construction of Contract C810 (Operations and Maintenance Facility) in the amount of \$53,998,000 with a 10% contingency of \$5,399,800 for a new total contract amount not to exceed \$59,397,800.	8/14/03

CONSEQUENCES OF DELAY

With the execution of the Full Funding Grant Agreement, Sound Transit is prepared to award two construction contracts, C700 (Royal Brougham to Airport Way South) and C810 (Central Link Operations and Maintenance Base). The C700/C810 contractor will commence construction operations shortly after execution of the contract.

REGIONAL PARTNERSHIP AND COOPERATION

Not applicable to this action.

PUBLIC INVOLVEMENT

Not applicable to this action.

LEGAL REVIEW

MB 9/18/03

SOUND TRANSIT

MOTION NO. M2003-103

A motion of the Finance Committee of the Central Puget Sound Regional Transit Authority authorizing the Chief Executive Officer to execute a contract with CH2M HILL to provide surveying services for the Link Initial Segment, in the amount of \$3,303,286 with a 10% contingency of \$330,328, for a total authorized contract amount not to exceed \$3,633,615, subject to execution of the Full Funding Grant Agreement by the Federal Transit Administration.

Background:

On March 5, 2003, Sound Transit requested statements of qualification for Quality Assurance Surveying for the Central Link construction management. On April 2, 2003, Sound Transit received a statement of qualifications from five firms. A selection panel evaluated the written proposals and selected two firms for interviews. The selection panel, considering both the written proposal and the interview, selected CH2M HILL.

The approved schedule for the Link Light Rail Initial Segment assumes the start of construction in the fall of 2003. The construction will begin with Contracts C700 (Royal Brougham to Airport Way South) and C810 (Central Link Operations and Maintenance Base). The C700 contract includes the construction of at-grade and aerial light rail facilities, from South Royal Brougham Way to Airport Way South. The C810 contract for the construction of the operations and maintenance facility for Central Link includes the administrative building, maintenance facilities and rail yard.

Preliminary surveying for design and layout of system wide primary control lines, control monuments and bench marks for the Central Link Light Rail system was performed under the preliminary engineering contract with Puget Sound Transit Consultants. The Central Link surveying consultant shall assist in Sound Transit's construction management program by verifying that construction survey work and the placement of the construction work by the contractors meets contract specification for each contract.

Motion:

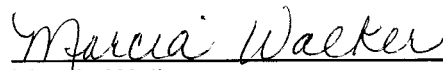
It is hereby moved by the Finance Committee of the Central Puget Sound Regional Transit Authority that the Chief Executive Officer is authorized to execute a contract with CH2M HILL to provide surveying services for the Link Initial Segment, in the amount of \$3,303,286 with a 10% contingency of \$330,328, for a total authorized contract amount not to exceed \$3,633,615, subject to execution of the Full Funding Grant Agreement by the Federal Transit Administration.

APPROVED by the Finance Committee of the Central Puget Sound Regional Transit Authority
at a regular meeting thereof held on October 2, 2003.



Kevin Phelps
Finance Committee Chair

ATTEST:



Marcia Walker
Board Administrator