

**SOUND TRANSIT
STAFF REPORT**

MOTION NO. M2004-17

Contract Amendment for Traffic Engineering for Construction Support

Meeting:	Date:	Type of Action:	Staff Contact:	Phone:
Finance Committee	3/4/04	Discussion/Possible Action	Ahmad Fazel, Link Light Rail Director Bob Parsons, Link Civil Engineering Manager	(206) 689-3350 (206) 398-5150

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

3Applicable to proposed transaction.

OBJECTIVE OF ACTION

To provide traffic engineering design support during civil and systems construction and during system testing for the Initial Segment.

ACTION

Authorize the Chief Executive Officer to execute a contract amendment with DKS Associates to provide traffic engineering design support during construction for civil contracts, systems contracts, traffic controller procurement and integrated testing for the Initial Segment of the Link Light Rail Project in the amount of \$540,000, for a new total authorized contract amount not to exceed \$3,049,591.

KEY FEATURES

- DKS Associates is the traffic engineering final design consultant for all civil contracts in the initial segment from Convention Place Station to the South 154th Street station. This contract amendment is for design support during construction, traffic controller/software procurement, and system integrated testing.
- It is standard practice for the final designer to be available to provide traffic design support during the construction and testing phases. The types of tasks the final designer performs during construction include review of shop drawings, review of contractor Requests for Information, evaluation of change requests, and resolution of construction issues which affect the final design. Tasks during system testing include traffic engineering support for traffic controller and software procurement, field performance testing, and transit priority calibrations.
- By the spring of 2005, all major civil construction contracts for the Initial Segment will be awarded. Systems construction is scheduled to begin in the fall of 2005. Integrated system testing is to be completed by July 2009.

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 proposed action authorizes execution of an amendment to the contract with DKS Associates to provide traffic engineering design support during construction for the Initial Segment in the amount of \$540,000 for a new total authorized amount not to exceed \$3,049,591. No additional contingency is required, as \$43,632 remains of the \$228,145 contingency originally authorized for DKS.

The adopted capital budget for the Initial Segment is \$2.07 billion. Within this budget, \$690,000 has been set aside in the final design phase for traffic engineering design support during construction. Should the proposed action be approved, a balance of \$150,000 will remain for this budget item.

REVENUE, SUBAREA, AND FINANCIAL PLAN IMPACTS

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

BUDGET TABLE

Action Item: DKS Associates (Provide traffic engineering design support during construction for civil contracts, systems contracts, traffic controller procurement and integrated testing for the Initial Segment)

(Year of Expenditure \$000)

Initial Segment	Adopted FY2004 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
1 Agency Administration	226,780	108,821		108,821	117,959
2 Preliminary Engineering	35,000	33,290		33,290	1,710
3 Final Design	123,523	115,418	540	115,958	7,566
4 Right of Way	233,016	130,392		130,392	102,624
5 Construction	1,171,837	290,847		290,847	880,990
6 Construction Services	82,737	38,913		38,913	43,824
7 Third Party Agreements	58,800	56,126		56,126	2,674
8 Vehicles	138,307	131,799		131,799	6,508
9 Contingency				-	-
10 Total Current Budget	2,070,000	905,606	540	906,146	1,163,854

Phase Budget Detail

11 Traffic Engineering Design Support during Construction	690	-	540	540	150
12 Other Segments	122,833	115,418	-	115,418	7,416
13 Total Phase	123,523	115,418	540	115,958	7,566

(B) Committed to Date amounts are from the Link Program Cost Summary Report (HQ Reports) for January 2004 + board motions not yet included in report as follows:

	Final Design	Construction	Construct Svcs	Third Parties	Vehicles
Commitments through January 2004	114,894	132,888	11,151	40,619	-
Other board motions	523	157,959	27,762	15,507	131,799
Total phase commitments	115,418	290,847	38,913	56,126	131,799

Contract Budget	Current Approved Contract Value (F)	Spent to Date (G)	Proposed Action (H)	Proposed Total Contract Value (I)
14 Contract Amount	2,281	1,839	540	2,821
15 Contingency	228	-	-	228
16 Total	2,510	1,839	540	3,050
17 Percent Contingency	10%	0%	0%	8%

M/W/DBE – SMALL BUSINESS PARTICIPATION

Prime Consultant/Contractor

DKS Associates original M/W/DBE and Small Business commitment was 23.2%. The original contract scope included traffic planning work for the Downtown Seattle Transit Tunnel closure. This task is being completed by City of Seattle and King County Metro staff eliminating the need for work by Heffron Transportation, Inc., a WBE/DBE traffic planning specialty group, that accounted for 0.9% (\$20,700) of the original commitment. This also resulted in the reduction of work by Traffic Count Consultants, Inc., a WBE/DBE traffic counting firm, that accounted for 0.4% (\$7,500) of the original commitment.

As of January 1, 2004, 18.6% M/W/DBE utilization was reported. However, this number is not representative of the total utilization that will be achieved. Much of the work over the next several months is on Contract C755 (Tukwila Freeway Route) by CTS Engineers, Inc., a WBE/DBE firm. This will likely raise the projected utilization percentage to approximately 22%.

The work included in this design support during construction and system testing contract modification is targeted to controller software procurement and integrated testing which will likely require the most assistance and are the most technically complex. However, this contract amendment includes \$135,000 of work by KDD, CTS, and Traffic Consultants, representing 25% of the amendment amount. The current projection of M/W/DBE and small business utilization at the completion of the contract work including this amendment is 21.9%. Efforts will be made to increase M/W/DBE and small business percentages as the work progresses.

Utilization Breakdown Table (including amendment)

Subconsultant	Business Type	% of Work	Dollar Value
KDD and Associates	MBE/DBE	14.0%	\$421,800
CTS Engineers, Inc.	WBE/DBE	6.5%	195,700
Traffic Count Consultants, Inc.	WBE/DBE	1.4%	41,800
Heffron Transportation, Inc.	WBE/DBE	0%	0
Total	M/W/DBE	21.9%	\$659,300

HISTORY OF PROJECT

On March 2, 2000, the Sound Transit Finance Committee authorized a contract with DKS Associates for traffic engineering final design services for the Central Link Light Rail Project in the amount of \$2,281,446 with a 10 percent contingency of \$228,145 for a total amount not to exceed \$2,509,591 (contract number RTA/LR 107-99).

Scope of work included preparation of engineering reports, final plans, specifications, and estimates for traffic facilities including traffic signal systems, signing and striping in close coordination with civil and systems designers. The traffic engineering report, prepared by DKS Associates, provided final design parameters for traffic signal systems, signing, striping, and construction area traffic control. DKS also developed maintenance of traffic plans during construction. Construction traffic control design work for the Pine Street Stub Tunnel and a parking analysis at the South 154th Street Station were added by change order.

All required environmental compliance to support approval of this amendment has been completed.

Prior Board or Committee Actions and Relevant Board Policies

Motion or Resolution Number	Summary of Action	Date of Action
M2000-25	Execute a contract with DKS Associates for traffic engineering final design services for Central Link Light Rail Project in the amount of \$2,281,446 with a 10% contingency of \$228,145 for a total amount not to exceed \$2,509,591.	3/2/2000

CONSEQUENCES OF DELAY

Traffic controllers for construction contract C735 (Rainier Valley between McClellan Street and Boeing Access Road) will be required in early 2005. Work under this amendment to support the procurement of traffic signal controllers and software must begin in April 2004 to meet this schedule and avoid delays.

PUBLIC INVOLVEMENT

Not applicable to this action.

LEGAL REVIEW

DLB 2/19/04

SOUND TRANSIT

MOTION NO. M2004-17

A motion of the Finance Committee of the Central Puget Sound Regional Transit Authority authorizing the Chief Executive Officer to execute a contract amendment with DKS Associates to provide traffic engineering design support during construction for civil contracts, systems contracts, traffic controller procurement and integrated testing for the Initial Segment of the Link Light Rail Project in the amount of \$540,000, for a new total authorized contract amount not to exceed \$3,049,591.

Background:

DKS Associates is the traffic engineering final design consultant for all civil contracts in the initial segment from Convention Place Station to the South 154th Street station. This contract amendment is for design support during construction, traffic controller/software procurement, and system integrated testing.

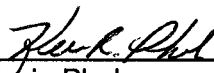
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All required environmental compliance to support approval of this amendment has been completed.

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 amendment with DKS Associates to provide traffic engineering design support during construction for civil contracts, systems contracts, traffic controller procurement, and integrated testing for the Initial Segment of the Link Light Rail Project in the amount of \$540,000, for a new total authorized contract amount not to exceed \$3,049,591

APPROVED by the Finance Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on March 4, 2004.



Kevin Phelps
Finance Committee Chair

ATTEST:



Marcia Walker
Board Administrator