

**SOUND TRANSIT  
STAFF REPORT**

**MOTION NO. M2006-47**

**Contract Amendment for  
Additional Civil Engineering Final Design Services During Construction  
of Tukwila Section of Central Link and Airport Link**

Meeting:	Date:	Type of Action:	Staff Contact:	Phone:
Finance Committee	6/01/06	Discussion/Possible Action to Recommend Board Approval	Ahmad Fazel, Link Director	(206) 398-5389
Board	6/08/06	Discussion/Possible Action	<b>Bob Parsons, Link Civil Engineering Manager</b>	(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	

✓ *Applicable to proposed transaction.*

**PROJECT NAME**

Central Link Light Rail Initial Segment and Airport Link

**PROPOSED ACTION**

Authorizes the Chief Executive Officer to execute a contract amendment with Hatch Mott MacDonald to (1) provide additional civil engineering design services during construction of the Central Link Light Rail Initial Segment - Tukwila section, in the amount of \$1,100,000; and (2) execute an option for civil engineering design services during construction of the Airport Link project in the amount of \$1,800,000, for a new total authorized contract amount not to exceed \$28,835,350.

**KEY FEATURES of PROPOSED ACTION**

- The purpose of this action is to increase the contract amount for civil engineering design services during construction for (1) the C755 Tukwila section of the Central Link Initial Segment project and (2) the Airport Link project.
  - The current contract amount available for C755 design services during construction (DSDC) is \$2,542,931. Under this amendment, Hatch Mott MacDonald (HMM) will provide additional on-call design services during construction of the C755 segment for a total authorized contract amount for DSDC not to exceed \$3,642,931.
  - Under this amendment, HMM will provide on-call design services during construction for a total authorized contract amount not to exceed \$1,800,000 for Airport Link.
- Design services during construction include, but are not limited to: reviewing submittals; responding to requests for information from the contractor; preparing design modifications

required by existing conditions; providing design change management; and coordination with third parties.

- During the course of construction of the South Boeing Access Road to South 154th Street segment, staff determined that the present level of design effort on the project is insufficient to address the number of submittals and requests for information from the contractor.
- Design services during construction will be provided by HMM on an on-call basis as determined necessary by Sound Transit staff. Services to be provided will be negotiated by staff and will be consistent with the project scope of work contained in the contract.

### **BUDGET IMPACT SUMMARY**

Current Project Phase: Construction

Projected Completion Date: 2009

<b>Action Outside of Adopted Budget:</b>	<b>✓</b>	<b>Comments on Checked Items</b>
This Project		
This Phase		
This Task	✓	This action exceeds the task budget in the Initial Segment by \$1.1M. This shortfall will be funded by unallocated contingency in the final design phase.
Budget Amendment Required		

<b>Key Financial Indicators:</b>	<b>✓</b>	<b>Comments on Checked Items</b>
Contingency Funds Required		
Funding required from other parties (other than what is in financial plan)		

Not checked = action is assumed in current Board-adopted budget. No budget action or adjustment to financial plan required.

### **BUDGET and FINANCIAL PLAN DISCUSSION**

This action would authorize execution of a contract amendment with Hatch Mott MacDonald to provide civil engineering design services during construction for (1) the Tukwila Segment (C755) of the Central Link Initial Segment project in the amount of \$1,100,000; and (2) the Airport Link project in the amount of \$1,800,000, for a new total authorized contract amount not to exceed \$28,835,350.

The Adopted 2006 Budget for the Central Link Initial Segment is \$2.07 billion. Within that budget, \$2,834,477 has been set aside for C755 design services during construction in the final design phase. Approval of the proposed action would result in a shortfall of \$1,113,740 for this budget line item. There is sufficient unallocated contingency in the final design phase to fund this action. Consistent with the Sound Transit budget policies, this shortfall will be addressed in the 2007 budget process.

The Adopted 2006 Budget for Airport Link is \$243.6 million. Within that budget, \$3,000,000 has been set aside for DSDC in the final design phase. Approval of the proposed action would result in a surplus of \$1,200,000 for DSDC in the final design phase.

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

## BUDGET TABLE

**Action Item:** Hatch Mott MacDonald (provide civil engineering design services during construction for the Tukwila C755 section of the Central Link Initial Segment project and Airport Link)

(Year of Expenditure \$000)

<b>Initial Segment</b>		Adopted 2006 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
1	Agency Administration	216,780	115,195		115,195	101,585
2	Preliminary Engineering	34,000	33,611		33,611	389
3	Final Design	145,523	144,363	1,100	145,463	61
4	Right of Way	223,516	191,692		191,692	31,824
5	Construction	1,170,439	1,057,975		1,057,975	112,464
6	Construction Services	86,875	84,437		84,437	2,438
7	Third Party Agreements	59,560	58,690		58,690	870
8	Vehicles	133,307	131,799		131,799	1,508
9	<b>Total Current Budget</b>	<b>2,070,000</b>	<b>1,817,762</b>	<b>1,100</b>	<b>1,818,862</b>	<b>251,138</b>
<b>Final Design Phase Detail</b>						
10	DSDC C755	2,834	2,848	1,100	3,948	(1,114)
11	Other Design Support	26,072	29,516		29,516	(3,444)
12	Other Final Design	112,869	111,908		111,908	961
13	FD Unallocated Contingency	3,748	91		91	3,657
14	<b>Total Phase</b>	<b>145,523</b>	<b>144,363</b>	<b>1,100</b>	<b>145,463</b>	<b>61</b>
<b>Airport Link</b>						
		Adopted 2006 Budget (F)	Committed To Date (G)	This Action (H)	Total Committed & Action (I)	Uncommitted (Shortfall) (J)
15	Agency Administration	5,000	2,094		2,094	2,906
16	Preliminary Engineering	6,095	4,771		4,771	1,324
17	Final Design	15,405	9,901	1,800	11,701	3,704
18	Right of Way	23,000	2,471		2,471	20,529
19	Construction	158,000	7,775		7,775	150,225
20	Construction Services	10,500	22		22	10,478
21	Third Party Agreements	2,600	1,367		1,367	1,233
22	Vehicles	17,000	13,892		13,892	3,108
23	Contingency	6,000	-		-	6,000
24	<b>Total Current Budget</b>	<b>243,600</b>	<b>42,293</b>	<b>1,800</b>	<b>44,093</b>	<b>199,507</b>
<b>Final Design Phase Detail</b>						
25	DSDC	3,000	-	1,800	1,800	1,200
26	Other Final Design	12,405	9,901	-	9,901	2,504
27	<b>Total Phase</b>	<b>15,405</b>	<b>9,901</b>	<b>1,800</b>	<b>11,701</b>	<b>3,704</b>
<b>Contract Amount</b>						
		Board Approvals to Date (F)	Current Approved Contract Value (G)	Proposed Action (H)	Proposed Total for Board Approval (I)	Proposed Contract Value (J)
28	Contract Amount - Initial Segment	23,728	25,091	1,100	24,828	26,191
29	Contract Amount - Airport Link			1,800	1,800	1,800
30	Contingency	2,208	844	-	2,208	844
31	<b>Total</b>	<b>25,935</b>	<b>25,935</b>	<b>2,900</b>	<b>28,835</b>	<b>28,835</b>
32	Percent Contingency	9%	3%	0%	9%	3%
<b>Budget Shortfall</b>		\$	Potential Resources		Source	
<b>Task Level</b>		(K)	(L)		(M)	
33						
34						

Notes:

10(B) COMMITTED TO DATE includes pending board motions to increase contract amounts for other consultants providing Design Services during Construction (DSDC) for construction contract C755.

11(B) COMMITTED TO DATE includes pending board motions to increase contract amounts for other consultants providing Design Services during Construction (DSDC) for construction contract C710.

## M/W/DBE – SMALL BUSINESS PARTICIPATION

### Prime Consultant/Contractor

HMM is the prime consultant for this contract. During construction, the need to send work to the designer of record is driven by the scope of the change as well as the timeliness of the

response required. The actual M/W/DBE percentages achieved will vary depending on these needs and cannot, at this time, be confirmed. However, consistent with the actions of HMM through final design, HMM is committed to distributing the work to the subconsultant designer of record as necessary to provide the services as required.

The M/W/DBE-Small Business goal established for this contract was 20%. Performance to date has achieved 26.29% M/W/DBE-Small Business participation. The M/W/DBE-Small Business participation estimated for HMM's design services during construction is 16%, which reflects a greater utilization of prime consultant staff during this phase. When the project is complete, the resulting M/W/DBE-Small Business participation is estimated to meet the established 20% goal.

The following M/W/DBE and Small Business subconsultants may be utilized for this contract amendment:

Rosewater Engineering	WBE/DBE
CTS Engineers	Small Business
Anil Verma Associates	MBE/DBE
Pac Rim	MBE/DBE
Civil Tech	MBE/DBE
Anthony Steadman	Small Business
Bright Engineering	MBE/DBE
Duane Hartman	Small Business
Nakano	MBE/DBE
Radiance	WBE/DBE
C3MG	WBE/DBE
IBT	Small Business
Karen Kiest	WBE/DBE

#### EEO Commitment

HMM workforce demographics are 18.7% women and 20.7% minorities.

#### **PROJECT DESCRIPTION and BACKGROUND for PROPOSED ACTION**

The C755 Tukwila section of the Central Link Light Rail Initial Segment project includes the construction of predominantly aerial guideway structures from South Boeing Access Road to South 154th Street, running primarily adjacent to the SR-599, I-5, and SR-518 freeways.

The services provided under the proposed contract amendment will include review of submittals; responses to requests for information from the contractor; preparation of design modifications in response to changed conditions; support of design change management activities; and coordination with third parties.

With the completion of the final design on this line segment and taking into consideration Link's experience with the design services requirements on other line segments currently under construction, the Board authorized an amendment to HMM's contract to budget for these design services during construction in March 2005. The proposed amendment to the HMM contract will increase the budget for these required design services to support completion of the construction phase of the C755 section of both the Central Link Initial Segment and Airport Link projects.

## Prior Board/Committee Actions on this Project and Relevant Board Policies

Motion or Resolution Number	Summary of Action	Date of Action
M2005-37	Executed a sole source contract amendment with Hatch Mott MacDonald (HMM) in the amount of \$9,077,591 and a 10% contingency in the amount of \$907,759, for a revised total authorized contract amount not to exceed \$25,935,350, to provide preliminary engineering and architectural design services for the Airport Link preferred alternative between South 154 <sup>th</sup> Street in the City of Tukwila and the proposed Airport light rail station near South 176 <sup>th</sup> Street in the City of SeaTac and to provide final design services for the Airport Link project to be selected for construction by the Sound Transit Board.	4/14/05
M2005-15	Ratified and approved the contract for civil engineering design services with Hatch Mott MacDonald and authorizes the Chief Executive Officer to execute a contract amendment to the contract to provide additional civil engineering design services during construction for Central Link Light Rail Initial Segment project from South Boeing Access Road to South 154 <sup>th</sup> Street in the amount of \$1,650,000 for a new total authorized amount not to exceed \$15,950,000.	3/10/05
M2002-45	Executed a contract with AMEC-Hatch Mott MacDonald Joint Venture for civil engineering final design services associated with construction of the S. Boeing Access Road to S. 154 <sup>th</sup> Street segment for the Central Link Light Rail project for a contract amount of \$13,000,000 with a 10% contingency of \$1,300,000 for a total authorized amount not to exceed \$14,300,000.	4/25/02

### **CONSEQUENCES OF DELAY**

A significant delay in Board action could result in less timely responses to the contractors submittals and requests for information, which could delay the construction schedule.

### **PUBLIC INVOLVEMENT**

Not applicable to this action.

### **ENVIRONMENTAL COMPLIANCE**

Jl 05/18/06

### **LEGAL REVIEW**

JW 5/26/06

## SOUND TRANSIT

### MOTION NO. M2006-47

A motion of the Board of the Central Puget Sound Regional Transit Authority authorizing the Chief Executive Officer to execute a contract amendment with Hatch Mott MacDonald to (1) provide additional civil engineering design services during construction of the Central Link Light Rail Initial Segment - Tukwila section, in the amount of \$1,100,000; and (2) execute an option for civil engineering design services during construction of the Airport Link project in the amount of \$1,800,000, for a new total authorized contract amount not to exceed \$28,835,350.

#### Background:

The C755 Tukwila section of the Central Link Light Rail Initial Segment project includes the construction of predominantly aerial guideway structures from South Boeing Access Road to South 154th Street, running primarily adjacent to the SR-599, I-5, and SR-518 freeways.

The services provided under the proposed contract amendment will include review of submittals; responses to requests for information from the contractor; preparation of design modifications in response to changed conditions; support of design change management activities; and coordination with third parties.

With the completion of the final design on this line segment and taking into consideration Link's experience with the design services requirements on other line segments currently under construction, the Board authorized an amendment to HMM's contract to budget for these design services during construction in March 2005. The proposed amendment to the HMM contract will increase the budget for these required design services to support completion of the construction phase of the C755 section of both the Central Link Initial Segment and Airport Link projects.


#### Motion:

It is hereby moved by the Board of the Central Puget Sound Regional Transit Authority that the Chief Executive Officer is authorized to execute a contract amendment with Hatch Mott MacDonald to (1) provide additional civil engineering design services during construction of the Central Link Light Rail Initial Segment - Tukwila section, in the amount of \$1,100,000; and (2) execute an option for civil engineering design services during construction of the Airport Link project in the amount of \$1,800,000, for a new total authorized contract amount not to exceed \$28,835,350.

APPROVED by the Board of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on June 8, 2006.

  
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John W. Ladenburg  
Board Chair

ATTEST:

  
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Marcia Walker  
Board Administrator