CONSTRUCTION COMMITTEE JULY 19, 2007

PROJECT:

PASADENA GOLD LINE

SUBJECT:

CHINATOWN AERIAL STRUCTURE REPAIR OF SHEAR KEYS # 4, 5, 6.

ACTION:

APPROVE RECOMMENDATIONS FOR REPAIRS

RECOMMENDATIONS

A. The Board finds that awarding a Design-Build contract will achieve for Metro, among other things, certain private sector efficiencies in the repair of Pasadena Gold Line Chinatown Aerial Structure cracked shear keys.

Requires 2/3 vote

B. Authorize the Chief Executive Officer to award a non-competitive single source Design-Build contract to Brutoco Engineering & Construction, Inc. (BEC), in an amount not-to-exceed \$640,000, for Chinatown Aerial Structure final design and repair of cracked shear keys.

Requires 2/3 vote

- C. Approve Contract Modification Authority (CMA) in the amount of \$200,000 for possible modifications/change orders for future unforeseen field conditions.
- D. Approve an increase in the FY08 budget of \$540,000 from \$300,000 to \$840,000.

RATIONALE

The Chinatown aerial structure includes support structures, such as shear keys, that assist in the prevention of differential displacement movement during seismic events. Faces and sides of the shear key are to be separated from each other by specified distances.

Field observations have revealed that the concrete shear keys at hinges # 4, 5 and 6, on the track 1 guideway have developed cracks. Temporary netting has been placed under the cracked shear keys to prevent falling concrete. To determine the cause of the cracking and design appropriate repairs, it is necessary to remove broken concrete, and verify the size and location of reinforcing steel bars.

Staff has assessed the situation related to the Pasadena Gold Line (PGL) Aerial Structure and determined that a design-build contract is the most expedient method of delivery for repairing the structure. The major efficiencies and advantages are as follows:

· A single point of responsibility for design and construction.

 Metro's risk for the repairs is minimized, as the Design-Builder will be responsible for the design and construction to Metro's satisfaction.

 Schedule efficiency and shorter project duration because the Design-Builder's ability to perform design and construction activities simultaneously (i.e. scheduled duration for this project is approximately ten weeks).

 Savings in Metro's administrative cost by combining solicitation processes of design and construction, reduction in construction management and engineering support efforts during construction and reduction in contract closeout time.

The contractor Brutoco Engineering & Construction, Inc. (BEC) has successfully performed several contracts for Metro in the last few years (e.g. Metro Red Line Universal City Station Freeway Overcrossing over US 101 freeway and Site Restoration, Metro Red Line Bridge Widening at Lankershim Boulevard and Metro Orange Line Los Angeles River Bridge). All of these contracts were successfully completed to Metro's satisfaction on time and within budget.

In addition, BEC will subcontract HNTB Corporation (HNTB) as the designer for these repairs. HNTB was the original designer and Engineer of Record for the Chinatown Aerial Structure for the Pasadena Gold Line Construction Authority construction contract. With these two contractors Metro staff is confident that a successful solution and repair will be accomplished without interruption to operating service.

A Contract Modification Authority for \$200,000 is being requested for unforeseen field conditions. Subsequent to the initiation of repairs and further inspection of the shear key areas (i.e. 4, 5 and 6) further inspections of shear keys 1, 2, and 3 will begin to locate any additional conditions detected that may require additional work to repair on an exigent basis.

FINANCIAL IMPACT

The proposed FY08 budget includes \$300,000 for this service. The expenditures will be temporarily funded with Proposition C 25% Highway funds pending reimbursement by the Pasadena Gold Line Construction Authority.

The proposed FY08 budget will be amended to include an additional \$540,000 of expenditures and revenues to Project Number 809005 (Pasadena Gold Line Closeout), cost center 8510, Construction Contracts Procurement, Account Number 50316 Professional and Technical Services. The expenditures will be temporarily funded with Proposition C 25% Highway funds pending reimbursement by the Pasadena Gold Line Construction Authority.

ALTERNATIVES CONSIDERED

The Board may reject staff's recommendation; however, further deterioration of the existing areas may continue at these and possibly other locations. Repairing the shear keys at this time should to reduce further damage and restore full structural integrity of the guideway in the event of a major earthquake.

The Board may choose to accomplish these repairs by using Design-Bid-Build (DBB) method of delivery, but the following factors may increase the cost to Metro:

- Engineering and procurement efforts will be necessary to prepare the scope for the design contractor, design bid solicitation and project management.
- Upon completion of design, the efforts for construction bid solicitation, construction management and closeout activities will be necessary.
- · The DBB method will take a significantly longer time and more expensive.

ATTACHMENTS

- A. Procurement Summary
- A-1. Procurement History
- A-2. List of Subcontractors

Prepared by: Aspet Davidian, Director Project Engineering Facilities

Richard D. Thorpe Chief Capital Management Officer

Roger Snoble Chief Executive Officer

BOARD REPORT ATTACHMENT A PROCUREMENT SUMMARY

PASADENA GOLD LINE - CHINATOWN AERIAL STRUCTURE REPAIR OF SHEAR KEYS #4, 5, 6

1.	Contract Number: C	0881	Brutoco Engineering and ormation: N/A Recommended Price: N/A			
2.	Recommended Vendor: Brutoco Engineering and					
	Construction, Inc.					
3.	Cost/Price Analysis Information: N/A					
	A. Bid/Proposed Pri	ce:	Recomme	nded Price: N/A		
	N/A					
		ommended Vendor: Brutoco Engineering and struction, Inc. /Price Analysis Information: N/A Bid/Proposed Price: Recommended Price: N/A Bid/Proposed Bid/Proposed Bid/Proposed Best and Final Bidders/Proposers Bid/Proposed Best and Final				
4.						
5.						
	C. Pre-proposal Conference: N/A					
	D. Proposals Due: N/A					
	E. Pre-Qualification Completed:					
6.	Small Business Participation: A. Bid/Proposal Goal: Date Small Business Evaluation					
	A. Bid/Proposal Goa	d:	Date Small Business Evaluation			
			Completed:			
	Attachment A-2 Invitation for Bid/Request for Proposal Data: N/A					
7.	Levitetian for Did/Dancest for Dancest Date 2014					
1.						
	Sent:					
	Sent.	ricked	up.	Received.		
8.	Evaluation Informati	on.				
0.						
	Names:	USCIS				
	ivallies.					
			-			
	B. Evaluation Methodology: Describe Methodology Details					
	are in Attachment A-1.C					
9.	are in Attachment A-1.C Protest Information:					
	A. Protest Period End Date: N/A B. Protest Receipt Date: N/A					
	C. Disposition of Protest Date: N/A					
10.	Contract Administrator: Telephone Number:					
2000	Charles W. Fitzsimmons		922-7301			
11.	Project Manager:		Telephone N	Telephone Number:		
	Aspet Davidian		922-5258			

BOARD REPORT ATTACHMENT A-1 PROCUREMENT HISTORY

PASADENA GOLD LINE - CHINATOWN AERIAL STRUCTURE REPAIR OF SHEAR KEYS #4, 5, 6

A. Background on Contractor

Brutoco Engineering and Construction, Inc., is a California Corporation, organized and incorporated in 1967. The company operates as a general contractor engaged in the construction of freeways, roads and bridges for various government agencies through contracts awarded under competitive bidding process.

The Contractor has completed work on Contract Nos. C0326, C0671, C0676 and C2327 for Metro and their performances have been satisfactory. Other major projects completed by the Contractor have been with the Los Angeles Department of Public Works; Caltrans; Port of Los Angeles; and City of Newport Beach. The projects are located within southern California.

B. Procurement Background

The Chinatown Aerial Structure repair of Shear Keys #4, 5, 6 is a single source, firm fixed price contract issued exigently to reduce damage to the structural integrity; protect Metro patrons and increase public safety.

C. Evaluation of Proposals

An Independent Cost Estimate has been developed based on Scope of Work and various fact finding meetings held with Brutoco Engineering and Construction representatives.

D. Cost/Price Analysis Explanation of Variances

The recommended price has been determined to be fair and reasonable based upon analyses of the Contractor's Cost Proposal in accordance with Metro Procurement Policy and Procedures.

BOARD REPORT ATTACHMENT A-2 LIST OF SUBCONTRACTORS

PRIME CONTRACTOR - Brutoco Engineering and Construction, Inc.

Small Business Commitment

Other Subcontractors

List all Small Business Subcontractors and their respective % goal the contractor committed for this procurement.

List all other subcontractors identified in contractor's proposal as part of the contractor's team

Total Commitment

x.x% this must match % listed in item 6b.