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Memorandum

TO: BATA Oversight Committee

DATE: June 1, 2011

FR: Executive Director

W. I. 1251

RE: Contract Amendment – Ground Motions Update on San Mateo-Hayward and Richmond-San Rafael Bridges: CH2MHill

Recommendation

The purpose of this memorandum is to request authorization for the Executive Director, or his designee, to enter into a contract amendment with CH2MHill in an amount not to exceed \$250,000 to update ground motion studies on the San Mateo-Hayward and Richmond-San Rafael bridges.

Discussion

On October 13, 2010, Caltrans identified a crack in a structural steel member during a routine inspection of the San Mateo-Hayward Bridge. While the lane of traffic above the crack was closed to traffic, the support beam was repaired by sandwiching the crack between new plates of steel and the bridge fully reopened by the early morning of October 17.

While the structural capacity of the beam has been restored and is being inspected regularly, Caltrans is planning a longer term repair later this year that is funded in the Toll Bridge Rehabilitation Program. The Toll Bridge Seismic Safety Peer Review Panel reviewed and concurred with the repair strategy and also recommended that the ground motion study for the San Mateo-Hayward Bridge, completed in 1992, be updated and made consistent with more recent studies done for the San Francisco-Oakland Bay and Dumbarton bridges. The study provides the expected ground motions from a seismic event, which are input into the seismic model for design/retrofit of a structure. Updating this work is reasonable given the improvements in earthquake knowledge and application since the original work was done. To expedite the work, the Department has requested assistance from BATA utilizing our on-call consultants which include CH2MHill. Further, staff is recommending updating the study for the Richmond-San Rafael Bridge that was completed in 1993 to be consistent with the other east-west bridges in the region.

Recommendation

Staff recommends that the Committee authorize the Executive Director or his designee to negotiate and enter into a contract amendment with CH2MHill in an amount not to exceed \$250,000, to update ground motion studies.

Steve Heminger

REQUEST FOR COMMITTEE APPROVAL
Summary of Contract Amendment

Work Item No.: 1251

Vendor: CH2MHill

Work Project Title: Ground Motion Studies on San Mateo-Hayward and Richmond-San Rafael Bridges

Purpose of Project: Update of Ground Motion Studies on San Mateo-Hayward and Richmond-San Rafael Bridges

Brief Scope of Work: To update prior ground motion studies given the improvements in earthquake knowledge and application since the original work was done.

Project Cost Not to Exceed: \$250,000 - this Amendment
(Current contract amount \$2,300,000)
New total maximum contract amount = \$2,550,000

Funding Source: BATA Capital Rehabilitation Program

Fiscal Impact: Project costs are consistent with funds programmed and budgeted in the current Capital Rehabilitation program

Motion by Committee: That the Executive Director or his designee is authorized to negotiate and enter into a contract amendment with CH2MHill to update prior ground motion studies and the Chief Financial Officer is authorized to set aside funds up to \$250,000 for such contract amendment.

BATA Oversight Committee:

Bill Dodd, Chair

Approved: Date: June 8, 2011