

# Agenda Report

July 21, 2008

**TO:** CITY COUNCIL

**FROM:** CITY MANAGER

**SUBJECT:** Authorize the City Manager to Enter into a Contract with Toby B. Hayward, Inc., to Provide Labor and Materials for the Replacement of the Arroyo Seco Creek Bridge 4 for the Water and Power Department, Specification WD-07-04

## **RECOMMENDATION:**

It is recommended that the City Council:

1. Accept the bid dated April 16, 2008 submitted by Toby B. Hayward, Inc., (Toby Hayward) in response to Specification WD-07-04 for the replacement of the Arroyo Seco Creek Bridge 4 for the Water and Power Department (Department);
2. Authorize the City Manager to enter into such contract for an amount not to exceed \$732,107, which consists of the base bid amount of \$665,552 and an allowance of ten percent (\$66,555) to cover any contingencies which may arise;
3. Amend the FY 2009 Water Capital Improvement Program to increase appropriations of Capital Improvement Project 1066, Arroyo Seco Bridge 4 Repair from \$670,000 to \$1,120,007; and
4. Acknowledge that the project is categorically exempt from the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines Section 15302 (replacement or reconstruction of existing structures) and Section 15269 (b) (emergency projects), and direct the City Clerk to file a Notice of Exemption within 5 business days.

## **BACKGROUND:**

The Arroyo Seco Creek Bridge 4 (B4) is located in the canyon behind the Jet Propulsion Laboratory. The existing structure is a timber truss bridge and it is at least 60 years old. The bridge is within the City of Pasadena (City) boundary and is used extensively to provide passage for recreational users and periodically for maintenance and emergency vehicles to cross the Arroyo Seco Stream. This roadway/trail starts at

the intersection of Windsor Avenue and Ventura Street in Altadena, also known as the start of the Gabrielino National Recreation Trail. The trail extends as far as the headwaters of the Arroyo Seco Stream at Red Box on the Angeles Crest Highway, and then beyond, into the San Gabriel River Watershed.

As a result of its age and the rainstorms of January and February 2005 the bridge was severely weakened, damaged and closed to vehicular traffic. The bridge continues to deteriorate and is now fenced off and closed to all traffic. Trail users, starting at the trailhead adjacent to the Windsor Avenue and Ventura Street intersection, are alerted by signs posted by staff that the roadway/trail is blocked one mile upstream at the fenced off bridge.

DOKKEN Engineering, a bridge design firm and consultant to the Department was hired in March 2005 to design the B4 replacement. Upon completion of the design DOKKEN Engineering estimated the cost to construct the bridge would be \$366,000. The bridge design and specification were completed on June 1, 2007. Staff has secured the required permits from the various agencies.

The notice inviting bids for Specification WD-07-04 was published in the Pasadena Star News on March 28, 2008. One bid was received on April 16, 2008. Toby Hayward was the sole bidder for the job and met all the requirements of the specification. The bid from Toby Hayward is \$665,552, which is \$299,552 over the estimated cost from DOKKEN Engineering (see Attachment 1).

The increase in the total cost for the B4 replacement is due to the additional work and mitigation measures which are required because the bridge is located in an environmentally sensitive area. First, the support shoring must be a single span element to keep construction material and equipment out of the Arroyo Seco stream. This method of shoring eliminates additional permits. Second, the existing bridges leading up to B4 must be temporarily reinforced in order to permit safe passage of heavy construction vehicles to the construction site. Third, compliance with the California Department of Fish and Game (Fish and Game) requires extensive environmental surveys, monitoring, and reports by a certified biologist, and mitigation measures must be performed to fulfill the terms of the Fish and Game agreement. These factors have resulted in an increased cost to complete the project of \$450,007.

The total contract amount to Toby Hayward including change orders will not exceed \$732,107, as shown below. This includes a ten percent contingency for any necessary change orders. The total funds required to complete the project construction are as follows:

Base Bid .....	\$665,552
Contract Contingencies (10%).....	\$ 66,555
<b>Total Contract Amount .....</b>	<b>\$ 732,107</b>

The current appropriation is not adequate to cover the total funds required to complete this project. The original engineer's estimate has been revised from \$670,000 to \$1,120,007 to cover the additional cost of bridge replacement, field engineering and inspection, and biological surveys required by the Department of Fish and Game. Attachment 1 is a table showing the budget breakdown of the additional appropriations.

**ENVIRONMENTAL IMPACT:**

This project is categorically exempt from environmental review pursuant to the guidelines of the California Environmental Quality Act (CEQA) per Section 15302 (replacement or reconstruction of structures) and per Section 15269 (b) (emergency projects). The Department recommends that the City Council direct the City Clerk to file a Notice of Exemption within 5 business days.

**FISCAL IMPACT:**

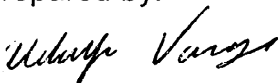
With the approval of the recommended revised project budget, sufficient funding will be available in the Capital Improvement Program budget account number 1066, Arroyo Seco Bridge 4 Repair, to cover the cost of this contract.

Respectfully Submitted,



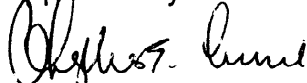
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Water and Power Department

**Arroyo Seco Creek Bridge 4  
Budget Amendment**

<b>Description</b>	<b>Original Estimate</b>	<b>Additional Appropriations</b>	<b>New Estimate</b>	<b>Comment</b>
Staff	\$60,000		\$60,000	To cover all facets of the project from design to construction
Engineering design	\$72,600		\$72,600	Design and review of proposed bridge
Bridge construction	\$366,000	\$299,552	\$665,552	New estimate based on actual bid
Contingency	\$36,600	\$29,955	\$66,555	10%
Review Fish and Game agreement by consultant	\$1,800		\$1,800	Consultant to review Fish and Game agreement conditions and requirements
Mitigation work for bridge replacement	\$50,000	\$10,500	\$60,500	Per the Fish and Game agreement the City is required to mitigate 1.8 acres of area over a 5 year period and submit annual reports to Fish and Game
Field engineering and inspection	\$83,000	\$47,000	\$130,000	Inspection during construction, review of shop drawings, change orders, request for information, etc.
Biologist	\$0	\$63,000	\$63,000	The Fish and Game agreement requires a certified biologist to conduct biological surveys, prepare reports, and be present at the site prior to and during portions of the demolition and construction work
<b>TOTAL</b>	<b>\$670,000</b>	<b>\$450,007</b>	<b>\$1,120,007</b>	