



**COUNTY OF SAN MATEO**  
Inter-Departmental Correspondence  
Public Works



**Date:** March 9, 2017  
**Board Meeting Date:** April 25, 2017  
**Special Notice / Hearing:** None  
**Vote Required:** Majority

**To:** Honorable Board of Supervisors

**From:** James C. Porter, Director of Public Works

**Subject:** Amendment to the Agreement with Parsons Brinckerhoff, Inc., for Engineering and Construction Management Services for the Crystal Springs Dam Bridge Replacement Project

**RECOMMENDATION:**

Adopt a resolution authorizing an amendment to the agreement with Parsons Brinckerhoff, Inc., for engineering, bidding, and construction support services for the Crystal Springs Dam Bridge Replacement Project, extending the term through June 30, 2018, and increasing the amount by \$249,804 for a new not-to-exceed amount of \$1,671,114.

**BACKGROUND:**

On October 16, 2007, your Board adopted Resolution No. 069064, which authorized the agreement with Parsons Brinckerhoff, Inc. (formerly PB Americas, Inc.) for engineering and construction management services for the Crystal Springs Dam Bridge (CSDB) Replacement Project in the amount of \$592,000. The agreement included consultant services for the design, preparation of plans, specifications, and construction cost estimates, and construction support associated with a project to demolish the existing CSDB and construct the replacement bridge.

On December 11, 2012, your Board adopted Resolution No. 072312, which authorized Amendment No. 1 to the agreement with Parsons Brinckerhoff, Inc. to increase the agreement amount by \$254,210 to \$846,210, and extend the term through December 31, 2015. This allowed the demolition of the old bridge and construction of the new bridge to be separated into two distinct projects for design, bidding, and construction purposes.

On August 5, 2014, your Board adopted Resolution No. 073341, which authorized Amendment No. 2 to the agreement with Parsons Brinckerhoff, Inc. to increase the agreement amount by \$418,180.48 to \$1,264,390.48, and extend the term through

December 31, 2017. This amendment extended the agreement through the anticipated bridge construction duration and provided funding for the estimated construction support services required.

On November 17, 2015, your Board adopted Resolution No. 074207, which authorized an agreement with Kiewit Infrastructure West Co. (Kiewit) for the CSDB Replacement Project. Kiewit began work in February 2016 and the construction is estimated to take approximately two years to complete, with a current estimated completion date of December 2017.

On September 6, 2016 your Board adopted Resolution No. 074783, which authorized Amendment No. 3 to the agreement with Parsons Brinckerhoff, Inc. to increase the agreement amount by \$156,919.52 to \$1,421,310. This amendment provided additional funding to address the greater than anticipated volume of submittals and requests for information (RFI) submitted by Kiewit, bridge design modifications due to site conditions that differed from those shown on the as-built plans provided by the San Francisco Public Utilities Commission (SFPUC), and engineering reviews of PG&E's electrical transmission line system design in relation to the new bridge facilities.

#### **DISCUSSION:**

Amendment No. 4 increases the not-to-exceed amount of the agreement by \$249,804 and extends the term of the Agreement from December 31, 2017 through June 30, 2018. Kiewit has been working on the Project for approximately 15 months and the Project is currently scheduled to be completed in December 2017. The Project requires extensive coordination with SFPUC and approvals from SFPUC and the Division of Dam Safety for planned work and unanticipated conditions encountered during construction. Additionally, coordination with PG&E for their future electrical transmission work and review of PG&E studies to ensure their facilities will not interfere with SFPUC dam operations and bridge maintenance has been extensive. As construction has progressed, unforeseen conditions have continued to arise that have required additional engineering and construction support services by Parsons Brinckerhoff, Inc.

This amendment will allow Parsons Brinckerhoff, Inc. to commit additional resources to address the following: greater than anticipated number of RFIs submitted by Kiewit, work required to address changed field conditions and conditions that differed from those shown on the SFPUC's as-built plans for SFPUC's Lower Crystal Springs Dam Improvements Project; redesign work during construction to address subsurface utility conflicts; additional engineering support to review issues associated with a concrete pour; field investigation and proposed remediation of SFPUC's failed rock wall; review of Contractor submittals involving work included in change orders; design or redesign work due to requests from the SFPUC during construction; peer reviews of PG&E's electrical transmission line system design in relation to the new bridge facilities; and redesign of the north roadway bridge approach due to changes in the site topography subsequent to design of the Project.

The Department recommends that your Board approve Amendment No. 4 to the agreement to increase Parsons Brinckerhoff, Inc.'s engineering and construction support budget in order to provide required services through completion of construction of the new bridge.

County Counsel has reviewed and approved the resolution and amendment as to form.

Approval of the amendment contributes to the Shared Vision 2025 outcome of a Livable Community by facilitating a bridge replacement project to provide the public with a seismically sound bridge for recreational users, bicyclists, and motorists.

**FISCAL IMPACT:**

The amended term of this agreement will be October 16, 2007 through June 30, 2018. Amendment No. 4 will increase the not-to-exceed amount of the agreement by \$249,804 to \$1,671,114. Funding has been included in the Road Fund FY 2016-17 Adopted Budget. The funding for Amendment No. 4 will be from the Road Fund as additional Federal Funds for engineering are not available.

There is no impact to the General Fund.