



County of San Mateo

Inter-Departmental Correspondence

Department: PUBLIC WORKS

File #: 16-655

Board Meeting Date: 10/17/2017

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 WSP USA (formerly 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 WSP USA (formerly Parsons Brinckerhoff, Inc.), for the engineering and construction support services for the Crystal Springs Dam Bridge Replacement Project, increasing the amount by \$97,785 for the new not-to-exceed amount of \$1,768,899.

BACKGROUND:

On October 16, 2007, your Board adopted Resolution No. 069064, which authorized the agreement with Parsons Brinckerhoff, 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.

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.

On April 25, 2017 your Board adopted Resolution No. 075167, which authorized Amendment No. 4 to the agreement with Parsons Brinckerhoff, Inc. to increase the agreement amount by \$249,804 to \$1,671,114, and extend the term through June 30, 2018. This amendment provided additional funding to address the greater than anticipated number of RFIs submitted by Kiewit and additional work required to address changed field conditions or conditions that differed from those shown on the SFPUC's as-built plans for SFPUC's Lower Crystal Springs Dam Improvements Project. This work included: redesign work 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 work toward redesign of the north roadway bridge approach due to changes in the site topography subsequent to design of the Project.

DISCUSSION:

Amendment No. 5 increases the not-to-exceed amount of the agreement by \$97,785 for additional engineering and construction support services by WSP USA through the end of the construction project. WSP USA put significant effort toward re-engineering the north bridge embankment due to differing site conditions, material requirements for the embankment, and specific handling requirements for the serpentine soil encountered.

WSP USA has indicated that this amendment will allow them to commit the resources required to address the issues and work anticipated through the end of the construction process. Their efforts will include: review of the remaining Contractor submitted RFIs and change orders, work required to address changed field conditions or change orders, subsurface utility/drainage conflicts, conditions that differed from the as-built plans for the SFPUC Crystal Springs San Andreas Transmission Upgrade Project and PG&E's Jefferson Martin Project, requests from the SFPUC during construction to modify Project elements, preparation of base maps for as-built production, and other support required for the Construction Management team.

The Department recommends that your Board approve Amendment No. 5 to the agreement to increase WSP USA's engineering and construction support budget in order to provide the required services through completion of the new bridge. The bridge is scheduled to be completed in January 2018.

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:

Amendment No. 5 will increase the not-to-exceed amount of the agreement by \$97,785 to \$1,768,899. Funding has been included in the Road Fund FY 2017-2018 Adopted Budget. The funding for Amendment No. 5 will be from the Road Fund as additional Federal Funds for engineering are not available.

There is no impact to the General Fund.