



Agenda Item No. (4)

To: Building and Operating Committee/Committee of the Whole
Meeting of April 27, 2023

From: John R. Eberle, Deputy District Engineer
Ewa Z. Bauer-Furbush, District Engineer
Denis J. Mulligan, General Manager

Subject: **APPROVE ACTIONS RELATIVE TO PROFESSIONAL SERVICES
AGREEMENT NO. 2017-B-15, GOLDEN GATE BRIDGE TOLL GANTRY
DESIGN SERVICES, WITH AECOM**

Recommendation

The Building and Operating Committee recommends that the Board of Directors approve the following actions relative to the Professional Services Agreement No. 2017-B-15, *Golden Gate Bridge Toll Gantry Design Services*:

1. Authorize execution of the Seventh Amendment to Professional Services Agreement (PSA) No. 2017-B-15, *Golden Gate Bridge Toll Gantry Design Services*, with AECOM, Oakland, CA, in an amount not-to-exceed \$291,662.17, for additional design services, for the total PSA amount of \$1,520,708.65, and,
2. Establish a 10% contingency for the amendment in the amount of \$29,170;

with the understanding that sufficient funds to finance the Seventh Amendment to the PSA and its contingency are available in the budget for the Toll Plaza Gantry Construction Project (Project #1820).

This matter will be presented to the Board of Directors at its April 28, 2023, meeting for appropriate action.

Summary

The Golden Gate Bridge, Highway and Transportation District (District) is moving forward with designing and constructing of a toll gantry to house the District's All Electronic Tolling (AET) system.

The limited vertical clearance and configuration of the existing toll booths structure cannot support the new toll collection technology, so a new support structure is required. The new structure, also referred to as the toll gantry, must support the required configuration of the AET equipment, which will include cameras, motion sensors, antennas, lights, and conduits with electrical and

communication wiring. The structure must also meet the minimum highway roadway vertical clearance standards.

In March 2017, the Board of Directors authorized the award of a contract with Kapsch TrafficCom IVHS, Inc. (Kapsch), to provide software and hardware for a toll collection system for a gantry, to commission and initiate operations of the system and to prepare a toll equipment installation plan for inclusion into the toll gantry construction documents.

In July 2017, by Resolution No. 2017-067, the Board of Directors authorized an award of PSA No. 2017-B-15, *Golden Gate Bridge Toll Plaza Gantry Design Services*, to AECOM. The scope of the services consists, in general, of:

- geotechnical investigations for the new toll gantry foundations and for the replacement of portions of the roadway structural section;
- development of conceptual architectural and structural designs of different toll gantry structures;
- development of detail design for the selected toll gantry, including design of gantry foundations and structure, gantry traffic protection, toll equipment connections to the gantry, toll equipment roadway pads, power and data conduits and conductors, and their connections to the gantry, gantry lighting, gantry access and maintenance platform, roadway traffic detection loops, roadway structural section and pavement reconstruction, roadway drainage modifications, and pavement delineation; and
- preparation of construction bid documents, including plans, specifications, construction schedule and cost estimate.

In April 2018, the Board of Directors approved the architectural design concept for the Golden Gate Bridge Toll Gantry Project as shown in Attachment A to this staff report. Approval of the architectural design concept allowed the final design of the toll gantry to proceed.

As the design of the gantry was progressing, Kapsch requested that the gantry design accommodate additional requirements related to the installation of the Kapsch's equipment, which was beyond AECOM's scope of work and resulted in the District executing the Third Amendment to the PSA with AECOM as listed in Table 2 of this report.

Then, in February 2021, when the gantry design was approximately 95% complete, Kapsch informed the District that their previous AET system design did not provide full traffic coverage and required placement of additional devices on the gantry. This change required the District to request that AECOM develop revised equipment mounting configuration layout, gantry framing details and electrical and communication wiring details to accommodate the additional equipment. The gantry design changes associated with Kapsch's revised design of the AET system were beyond AECOM's PSA scope of work and budget. AECOM has requested a \$99,847.90 increase in their PSA budget as compensation for this additional effort. Engineering staff has reviewed the request and found it to be reasonable in terms of AECOM's labor hours to perform the additional scope of services requested by the District and consistent with AECOM's audited labor and overhead billing rates.

In 2022, the contract with Kapsch was terminated and it was decided that the District would look at alternative toll systems. As a result, the current gantry design will be reviewed to determine

how it should be modified to make it more generic and allow for installation of one of the alternate systems on the gantry when such system is selected. This review requires the assistance of AECOM to determine potential feasible revisions to the current gantry walkway, handrails, framing, lifting devices, electrical equipment and other features, which were designed specifically for the Kapsch system. After the scope of design revisions is defined, staff will assess if another amendment to the PSA with AECOM is necessary to complete the final design, plans and specifications and advertise the project for construction.

Engineering staff requested, and AECOM has provided, a cost proposal in an amount of \$191,814.27, for the additional scope of design services associated with the evaluation of modifications to the gantry design to make it more generic for different toll equipment providers. Engineering staff has reviewed the proposal and found it to be reasonable in terms of the consultant's budgeted labor hours to perform the additional scope of services requested by the District and consistent with AECOM's audited labor and overhead billing rates.

Staff recommends that the Building and Operating Committee recommend that the Board of Directors authorize the execution of the Seventh Amendment to PSA No. 2017-B-15 with AECOM, in the not-to-exceed amount of \$291,662.17, to compensate AECOM for the cost of previously performed the design services to accommodate additional Kapsch's equipment, and to perform the design services associated with the evaluation of modifications to the gantry design to make it more generic for different toll equipment providers, as outlined in this report. The consultant will be compensated for actual time expended and expenses incurred. Staff also recommends that a contingency for this Amendment in the amount of \$29,170 be established for any additional scope of services that may develop as work progresses.

The District's Disadvantaged Business Enterprise (DBE) Program Administrator has determined that Small Business Enterprise and DBE participation for this Seventh Amendment is not anticipated.

Fiscal Impact

Project #1820, *Toll Plaza Gantry Construction*, is included in the FY 2022/23 Bridge Division Capital Budget in the amount of \$10,264,000 and is 100% District funded. There are sufficient funds in the Project #1820 budget to finance the proposed \$291,662.17 cost of the Seventh Amendment to PSA No. 2017-B-15 and the \$29,170 contingency, for the total amount of \$320,832.17 by using the unspent Third Amendment contingency amount of \$15,000, reallocating \$100,000 from the Indirect Costs on District Staff Burdened Labor budget and reallocating \$205,832.17 from the General Project Expenditures budget.

TABLE 1: PROJECT BUDGET - #1820, Toll Plaza Gantry Construction

DESCRIPTION	CURRENT PROJECT BUDGET	PROPOSED ADJUSTEMENT	TOTAL PROPOSED PROJECTBUDGET
District Staff Burdened Labor Costs – Design and Construction	\$848,000		\$848,000
Indirect Costs (ICAP) on District Staff Burdened Labor - Estimated	\$636,000	<i>(\$100,000)</i>	<i>\$536,000</i>
General Project Expenditures	\$250,319.96	<i>(\$205,832.17)</i>	<i>\$44,487.79</i>
PS&E Contract (Design Consultant	\$1,039,086		\$1,039,086
PS&E Contract Contingency (Design Consultant Contingency)	\$205,594.04	<i>\$305,832.17</i>	<i>\$511,426.21</i>
<i>Proposed Revised Contingency</i>			
Printing & Advertising	\$10,000		\$10,000
Permits and Fees	\$20,000		\$20,000
Prime Construction Contract	\$6,000,000		\$6,000,000
Prime Construction Contract Contingency	\$600,000		\$600,000
Construction Engineering	\$350,000		\$350,000
Construction Engineering Contingency	\$35,000		\$35,000
Materials Testing Services	\$20,000		\$20,000
CHP Services	\$250,000		\$250,000
TOTAL BUDGET	\$10,264,000	\$0.00	\$10,264,000

The following is a history of PSA No. 2017-B-15:

TABLE 2: The history of PSA No. 2018-B-15

ACTION	AMOUNT
Award PSA No. 2018-B-015, Golden Gate Bridge Toll Gantry Design Services Project Resolution No. 2017-067	\$1,038,452.44
First Amendment – additional design services	\$40,800.93 (from contingency)
Second Amendment – time only	\$0
Third Amendment – additional design services Resolution No. 2020-029	\$149,793.11
Fourth Amendment – time only	\$0
Fifth Amendment – time only	\$0
Sixth Amendment – time only	\$0
<i>Proposed Seventh Amendment, additional design services</i>	\$291,662.17
<i>PROPOSED TOTAL PSA AMOUNT</i>	<i>\$1,520,708.65</i>

ATTACHMENT

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