



Agenda Item No. (3)

To: Building and Operating Committee/Committee of the Whole  
Meeting of May 28, 2020

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. 2018-B-06, GOLDEN GATE BRIDGE PHYSICAL  
SUICIDE DETERRENT SYSTEM AND WIND RETROFIT STEEL  
FABRICATION SHOP INSPECTION SERVICES, WITH MATERIALS  
TESTING & INSPECTION**

### **Recommendation**

The Building and Operating Committee recommends that the Board of Directors approve the following actions relative to the Professional Services Agreement No. 2018-B-06, *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Steel Fabrication Shop Inspection Services*:

1. Authorize execution of the Second Amendment to Professional Services Agreement (PSA) No. 2018-B-06, *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Steel Fabrication Shop Inspection Services*, with Materials Testing & Inspection, Boise, ID, in an amount not to exceed \$180,000 for continuation of structural steel fabrication inspection services, for the total PSA amount of \$1,779,408.17; and,
2. Establish a 10% contingency for the amendment in the amount of \$18,000;

with the understanding that sufficient funds to finance the Second Amendment to the PSA and its contingency are available in the budget for construction of the Golden Gate Bridge Physical Suicide Deterrent System Project (Project #1526).

This matter will be presented to the Board of Directors at its May 29, 2020 meeting for appropriate action.

### **Summary**

At its December 16, 2016 meeting, the Board of Directors, by Resolution No. 2016-087, authorized the award of construction Contract No. 2016-B-01, *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Projects*, to Shimmick Construction Company, Inc./Danny's Construction Company LLC, a Joint Venture.

Contract No. 2016-B-1 involves construction of a horizontal stainless steel net supported by cantilevered steel brackets along the west and east sides of four Golden Gate Bridge structures: the South Approach Viaduct, the Fort Point Arch, the Suspension Bridge, and the North Approach Viaduct; and construction of a tall vertical railing at the North Anchorage Housing. The net and cantilevered steel brackets will be located approximately twenty feet below the sidewalk and extend out about twenty feet. Because the installation of the Net System on the Suspension Bridge will block operations of the existing Suspension Bridge maintenance travelers, the Project includes replacement of these travelers with new travelers that are configured to avoid interference with the Net System. The travelers will be located underneath, between and on the sides of the Suspension Bridge stiffening trusses. Contract No. 2016-B-01 also includes the construction of the Suspension Bridge Wind Retrofit along the west side of the Suspension Bridge main span. The construction contract time is 47 months.

The *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Projects* are funded with monies from the Federal Highway Administration (FHWA). The Golden Gate Bridge, Highway and Transportation District (District) follows the rules and procedures set forth in the California Department of Transportation (Caltrans) Local Assistance Procedures Manual (LAPM) for federally assisted projects. In conformance with the LAPM, the District has developed Construction Contract Administration Plans for the construction of the Projects. These plans state that administration and management of Contract No. 2016-B-1 by the District required, among other services, engagement of a consultant for steel fabrication shop inspections.

On December 15, 2017, by Resolution No. 2017-115, the Board of Directors authorized an award of PSA No. 2018-B-06, *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Steel Fabrication Shop Inspection Services*, to Materials Testing & Inspection in the amount of \$1,500,000 and approved a contingency for the PSA in the amount of \$150,000. The Notice to Proceed was issued February 28, 2018. The scope of the services consists of, in general, performing quality assurance inspections of structural steel fabrication, galvanization and painting to monitor the fabrication work for conformance with the construction contractor's Quality Control Plans, and to perform Quality Assurance testing of the steel fabrication and coatings.

The original PSA amount was established assuming a 24-month fabrication period, based on the construction contractor's fabrication schedule. The steel fabrication was assumed to take place at one shop, the galvanization at a second shop, and the painting at a third shop. The actual fabrication and painting however occurred at multiple locations, which required more effort than had been originally anticipated to perform the inspections and track the steel pieces as they were moved between the different shops. In November 2019, staff determined that the extra effort to inspect the multiple shops resulted in additional cost and required an increase in the PSA amount. On December 18, 2019, Amendment No. 1 in the amount of \$149,969.67 was issued using the authorized PSA contingency.

In March 2020, the construction contractor informed the District that the steel fabrication would not be completed until the end of 2020. Staff has performed a review of the remaining PSA amount and determined that to carry on the inspection services through December 31, 2020, the PSA amount has to be increased.

Engineering staff requested, and Materials Testing & Inspection has provided, a cost proposal in the amount of \$180,000, for the requested additional scope of inspection services. 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 it was consistent with Materials Testing & Inspection's audited labor and overhead billing rates.

The District's Disadvantaged Business Enterprise (DBE) Program Administrator has determined Material Testing & Inspection's DBE subconsultant will perform 53.8% of the additional services included in this Second Amendment.

Staff recommends that the Building and Operating Committee recommend that the Board of Directors authorize the execution of the Second Amendment to PSA No. 2018-B-06 with Materials Testing & Inspection, in the not to exceed amount of \$180,000, to perform the additional services 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 \$18,000, be established for any additional scope of services that may develop while work progresses.

### **Fiscal Impact**

The *Golden Gate Bridge Physical Suicide Deterrent System Project* (Project #1526) and the *Golden Gate Bridge Wind Retrofit Project* (Project #1528) are included in the FY 2019/20 Bridge Division Capital Budget at a total cost of \$192,779,868 and \$11,860,000, respectively, for a total combined budget of \$204,639,868.

The budgets for Projects #1526 and #1528 include budgets in the amounts of \$33,140,957 and \$1,423,206, respectively, for Construction Engineering Services, which include the steel fabrication shop inspection services.

The original authorized amount and contingency for PSA No. 2018-B-06 of \$1,650,000, was apportioned between Project #1526 and Project #1528, by assigning \$1,534,500 to Project #1526 and \$115,500 to Project #1528.

The additional inspection services under PSA No. 2018-B-06 are necessary for Project #1526 only, since the fabrication for the wind retrofit has been completed. Sufficient funds are available in the Project #1526's budget, as shown on Table 1b, to finance the \$180,000 cost of Amendment No. 2 to PSA No. 2018-B-06 and the \$18,000 contingency, for the total amount of \$198,000.

The following is the history of PSA No. 2018-B-06:

**TABLE 1a: PSA No. 2018-B-06**

	<b>DATE APPROVED</b>	<b>AMOUNT</b>	<b>SOURCE OF FUNDS</b>
PSA No. 2018-B-06	02/28/2018	\$1,449,438.50	80% Federal 20% District (part of the Project 1526 and 1528 budgets)
1 <sup>st</sup> Amendment	12/18/2019	\$149,969.67	80% Federal 20% District (part of the Project 1526 and 1528 budgets)
2 <sup>nd</sup> Amendment	Proposed in this report	\$180,000	80% Federal 20% District (part of the Project 1526 budget)
	<b>PROPOSED TOTAL PSA AMOUNT</b>	\$1,779,408.17	

**TABLE 1b: PROJECT 1526 BUDGET,  
GGB Physical Suicide Deterrent System Construction**

BUDGET ELEMENT			BUDGET ELEMENT AMOUNT	PROPOSED ADJUSTMENT	ADJUSTED AMOUNT
Construction Contract			\$132,563,830	0	\$132,563,830
Construction Contingency			\$22,405,213	0	\$22,405,213
Supplemental Funds			\$4,225,000	0	\$4,225,000
Construction Engineering:			\$33,140,957	0	\$33,140,957
	CONSTR. ENGINEERING SUB-ELEMENT	CONSTR. ENGINEERING SUB-ELEMENT AMOUNT			
1	District Staff and General and Misc. Expenses	\$15,320,591			
2	Construction Engineering Support Amendment 12 PSA 2011-B-2 Resolution No. 2016-089	\$6,600,000			
3	Environmental Compliance PSA 2017-B-09 Resolution No. 2017-002	\$903,152			
4	Interim Construction Scheduling and Claim Support PSA 2017-B-17 GM Report	\$93,000			
5	Construction Scheduling and Claim Support PSA 2018-B-07 Resolution No. 2017-105	\$2,320,164			
6	Steel Fabrication Shop Inspection PSA 2018-B-06 Resolution No. 2017-115, including Amendment 1	\$1,534,500			
	<i>Amendment 2, including contingency (Proposed in this report)</i>	<u>\$198,000</u>			
	<i>Proposed Total PSA 2018-B-06</i>	<u>\$1,732,500</u>			

7	Suicide Deterrent Net System Fabrication Shop Inspection PSA 2018-B-075 Resolution No. 2018-059	\$440,000			
8	Temporary Structures Engineering Advisor Support Services PSA 2018-B-082 Resolution No. 2018-066	\$957,550			
9	Field Inspection Support Services PSA 2018-B- 084 Resolution No. 2018-080	\$4,070,000			
10	Maintenance Traveler System Fabrication Shop Inspection PSA 2019-B- 007	\$704,000			
SUBTOTAL CONSTR. ENG., INCLUDING THE PROPOSED AMENDMENT		<u>\$33,140,957</u>	AVAILABLE BUDGET: \$33,140,957		
<b>TOTAL PROJECT 1526 BUDGET</b>			<b>\$192,335,000</b>	<b>0</b>	<b>\$192,335,000</b>