



Agenda Item No. (4)

To: Building and Operating Committee/Committee of the Whole
Meeting of December 14, 2023

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

Subject: **APPROVE ACTIONS RELATIVE TO THE GOLDEN GATE BRIDGE
PHYSICAL SUICIDE DETERRENT SYSTEM PROJECT**

Recommendation

The Building and Operating Committee recommends that the Board of Directors approve the following actions relative to Project #1526, *Golden Gate Bridge Physical Suicide Deterrent System Project* (Project #1526):

1. Authorize a \$4,200,000 increase in the Project #1526 budget to finance the contract administration and construction engineering by the District's Engineering staff through approximately December 2024;
2. Authorize execution of the Fourth Amendment to Professional Services Agreement No. 2018-B-07, *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Construction Scheduling and Claim Review Services*, with Secretariat International, Manhattan Beach, CA, in an amount not-to-exceed \$1,108,305, for continuation of expert construction scheduling and estimating and claim evaluation services through approximately December 2024; and,
3. Authorize an increase in the amount of \$5,308,305 in the FY 23/24 Bridge Division Capital Budget, relative to Project #1526, to be financed with District reserves, for a revised total Project #1526 budget of \$224,416,041, with the understanding that this total budget amount assumes Board approval of the four-year extension cost of the National Park Service (NPS) Special Use Permit for the Project presented in a separate staff report at this Committee meeting.

This matter will be presented to the Finance-Auditing Committee at its December 14, 2023, meeting and to the Board of Directors at its December 15, 2023, 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 (Contractor).

Project #1526, *Golden Gate Bridge Suicide Deterrent System Construction* involves fabrication and installation on the Golden Gate Bridge (Bridge) 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 are located approximately twenty feet below the sidewalk and extend out about twenty feet. Because the installation of the Net System on the Suspension Bridge blocks 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.

Project #1526 is mostly funded with monies from the Federal Highway Administration (FHWA). Accordingly, 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 a Construction Contract Administration Plan for the construction of the Project. According to the Plan, the District is responsible for administration and management of the Project #1526 construction. This work is performed by the Engineering Department staff with the assistance of consultants with expertise in various aspects of construction administration and engineering.

As previously reported to the Committee, the Contractor has not progressed the work as required by the contract and the District now estimates that they will not complete the installation of most of the physical suicide deterrent system until early 2024 and will not complete the remaining work until mid-2027. The Contractor's most recent schedule indicates that they will continue installing the net at the South Main Tower, the South Approach Viaduct and the Fort Point Arch into early 2024 (Note: there is currently fencing on the Bridge at these locations). After installation of the net at these locations, the schedule indicates that the Contractor will take several months to remove the temporary access platforms that were installed at these locations to facilitate installation of the net, and will work on work plans for installing, testing, operating and maintaining the new maintenance travelers. In addition, the Contractor plans to begin fabrication of the new maintenance travelers in 2024, which will require periodic inspections at the fabrication facility.

As a result of the projected delay in construction completion, an increase in the Project #1526 budget is necessary to finance the extension of the construction management and engineering efforts by Engineering staff and consultants. Staff has reviewed the Project #1526 budget and has determined that the budgets for the Engineering staff and for consultant construction scheduling, estimating and claim review support services will be depleted by the end of December 2023 and are required to be increased to continue supporting the project implementation. Staff anticipates that the same level of Engineering staff contract administration and construction engineering effort, and the same level of construction scheduling, estimating, and claim review services that have been provided for the past year will be required through the end of 2024. Staff recommends that the budgets for these two aspects of the project be increased as detailed below.

At the current level of effort by Engineering staff, staff recommends that a \$4,200,000 increase be made to the Project #1526 staff budget to allow for a continuation of these efforts through approximately December 2024.

By Resolution No. 2017-115, the Board of Directors authorized execution of PSA No. 2018-B-07, *Golden Gate Bridge Physical Suicide Deterrent System and Wind Retrofit Construction Scheduling and Claim Review Services*, to Secretariat International (Secretariat), to perform scheduling and claim support services. The account of the previously approved amendments to PSA No. 2018-B-07 is presented in Table 2 below.

A continuation of Secretariat's services is necessary to assist the District in reviewing, evaluating and responding to the Contractor's schedule submittals, notices of delays, requests for additional compensation and claims. Staff recommends that, at this time, Amendment No. 4 to PSA No. 2018-B-07 be made for a continuation of Secretariat's services through approximately December 2024. Engineering staff requested, and Secretariat provided a cost proposal in the amount not-to-exceed \$1,108,305 to perform the scheduling and claim support services through approximately December 2024. Engineering staff has reviewed the proposal and found it to be fair and reasonable in terms of Secretariat's budgeted labor hours to perform the additional scope of services requested by the District and consistent with Secretariat's audited labor and overhead billing rates. The District's Disadvantaged Business Enterprise (DBE) Program Administrator has verified that the work under the Fourth Amendment includes a proposed 1.57% DBE subconsultant participation. Secretariat will be compensated for actual time expended and expenses incurred, plus a fixed fee, for the not-to-exceed authorized amount.

Staff will monitor the progress of the construction work and will make an assessment towards the end of 2024 of the remaining work and the additional budget amounts that may be necessary to finance additional support services required through the construction completion. Staff will submit recommendations for additional budget increases determined to be necessary at future Committee meetings.

Engineering staff recommends that the Building and Operating Committee recommend that the Board of Directors authorize a \$4,200,000 increase in the Project #1526 Engineering staff cost budget; authorize execution of the Fourth Amendment to PSA No. 2018-B-07 with Secretariat International, in the not-to-exceed amount of \$1,108,305, for continuation of schedule, cost estimation and claim support services; and authorize an increase in the amount of \$5,308,305 in the FY 23/24 Bridge Division Capital Budget for Project #1526, to be financed with District reserves.

Fiscal Impact

The proposed \$5,308,305 increase in the FY 23/23 Bridge Division Capital Budget for Project #1526, funded with District reserves, would increase the total Project #1526 budget to \$224,416,041, with the understanding that this total budget amount assumes the Board approval of the four-year extension cost of the NPS Special Use Permit for the Project presented in a separate staff report at this Committee meeting.

TABLE 1: PROJECT #1526 BUDGET
GGB Physical Suicide Deterrent System Construction

BUDGET ELEMENT		AMOUNT	PROPOSED ADJUSTMENT	ADJUSTED AMOUNT
Construction Contract:		\$132,563,830		\$132,563,830
Construction Contingency:		\$22,405,213		\$22,405,213
Supplemental Funds:		\$5,469,736		\$5,469,736
	SUPPLEMENTAL FUND BUDGET SUB-ELEMENT			
1	CHP Agreement No. 16R350000 Resolution No. 2017-003	\$2,000,000		
	Amendment 1 (time only)	\$0		
	Amendment 2 (time only)	\$0		
	Amendment 3	\$1,280,000		\$3,280,000
2	BCDC/PG&E Permits	\$230,132		
	NPS SUP, Resolution No. 2015-089	\$194,868		
	SUP Amendment 1, Resolution No. 2019-086	\$194,868		
	<i>Proposed SUP Amendment 2</i>	\$194,868		\$814,736
3	Haz Disposal Fees	\$225,000		
4	Legal Fees	\$300,000		
5	Liquidated Damages (fog and directed lane closure pick up)	\$847,800		
6	Printing	\$2,200		
Documentation of Project History:		\$250,000		\$250,000
Construction Administration & Engineering:		\$58,418,957	\$5,308,305	\$63,727,262

	CONSTR. ADMIN. & ENGINEERING BUDGET SUB-ELEMENT	AMOUNT			
1	District Staff	\$15,778,991			
	Resolution No. 2020-054	\$2,000,000			
	Resolution No. 2021-044	\$5,270,000			
	Resolution No. 2022-078	\$4,637,000			
	<i>Proposed additional amount</i>	<u>\$4,200,000</u>			
	<i>Total proposed amount</i>	<i>\$31,885,991</i>			
2	Construction Engineering Support (HNTB) Amendment 12 PSA 2011-B-2 Resolution No. 2016-089	\$6,000,000			
	Addendum 1 Under GM authority	\$600,000			
	Addendum 2 Resolution No. 2023-063	\$1,400,000			
	Total Amount	\$8,000,000			
3	Environmental Compliance (ESA) PSA 2017-B-09 Resolution No. 2017-002	\$903,152			
4	Interim Construction Scheduling and Claim	\$59,600			

	Support (Secretariat International) PSA 2017-B-17 GM Report				
5	Construction Scheduling and Claim Support (Secretariat International) PSA 2018-B-07 Resolution No. 2017-105	\$2,109,240			
	Amendment 1 Under GM authority	\$210,924			
	Amendment 2, Resolution No. 2021-044	\$925,000			
	Amendment 3 additional amount Resolution No. 2022-078	\$1,542,000			
	<i>Proposed additional amount</i>	<u>\$1,108,305</u>			
	<i>Total proposed amount</i>	<i>\$5,895,469</i>			
6	Steel Fabrication Shop Inspection (MTI) PSA 2018-B-06 Resolution No. 2017-115, including Amendment 1	\$1,395,000			
	Amendment 1 Under GM authority	\$139,500			
	Amendment 2, including contingency Resolution No. 2020-027	\$198,000			
	Total PSA	\$1,732,500			

7	<p>Suicide Deterrent Net System Fabrication Shop Inspection (David Engineering) PSA 2018-B-075 Resolution No. 2018- 059</p> <p>Amendment 1 (time only)</p> <p>Amendment 2 Under GM authority</p> <p>Amendment 3, 4 and 5 Resolution No. 2021- 013</p> <p>Amendment 6 Resolution No. 2022- 016</p> <p>Amendment 7 Resolution No. 2023- 017</p> <p>Total PSA</p>	<p>\$400,000</p> <p>\$0</p> <p>\$40,000</p> <p>\$179,000</p> <p>\$134,000</p> <p>\$94,000</p> <p>\$847,000</p>			
8	<p>Temporary Structures Engineering Advisor (TJA) Support Services PSA 2018-B-082 Resolution No. 2018- 066</p> <p>Amendment 1 Under GM authority</p> <p>Amendment 2 Resolution No. 2020- 082</p> <p>Amendment 3 (time only)</p>	<p>\$870,500</p> <p>\$87,050</p> <p>\$1,340,000</p> <p>\$0</p>			

	Amendment 4 Under GM authority	\$134,000			
	Amendment 5, Resolution No. 2023-024	\$1,200,000			
	Total PSA	\$3,631,550			
9	Field Inspection Support Services (Summit) PSA 2018-B-084 Resolution No. 2018-080	\$3,700,000			
	Amendment 1 Under GM authority	\$370,000			
	Amendment 2 Resolution No. 2021-044	\$1,715,000			
	Amendment 3 Resolution No. 2022-078	\$2,127,000			
	Total PSA	\$7,912,000			
10	Maintenance Traveler System Fabrication Shop Inspection (Bureau Veritas) PSA 2019-B-007 Resolution No. 2019-048	\$704,000			
	PSA rescinded	(\$704,000)			
11	Maintenance Traveler System Fabrication Shop Inspection (Smith Emery) PSA 2021-B-073 Resolution No. 2022-016	\$2,860,000			

SUBTOTAL CONSTR. ADMIN & ENG., INCLUDING THE PROPOSED BUDGET INCREASE	\$63,727,262	TOTAL AUTH. AMOUNT: \$58,418,957	PROPOSED INCREASE: <u>\$5,308,305</u>	PROPOSED REVISED AMOUNT: \$63,727,262	
TOTAL PROJECT #1526 BUDGET		AUTH. BUDGET \$219,107,736	<i>PROPOSED INCREASE:</i> \$5,308,305	<i>PROPOSED REVISED BUDGET:</i> \$224,416,041	

TABLE 2: The history of PSA No. 2018-B-07 is as follows:

ACTION	AMOUNT	FINANCING SOURCE
Award PSA No. 2018-B-07, Construction Scheduling and Claim Support; Resolution No. 2017-105	\$2,109,240	
First Amendment – Under GM authority	\$210,924	
Second Amendment - Resolution No. 2021-044; continuation of support services during the Suicide Deterrent Project construction	\$925,000	100% District
Third Amendment - Resolution No 2022-078; continuation of support services during the Suicide Deterrent Project construction	\$1,542,000	100% District
<i>Proposed Fourth Amendment - continued support services during the Suicide Deterrent Project construction</i>	<i>\$1,108,305</i>	100% District
<i>PROPOSED TOTAL PSA AMOUNT</i>	<i>\$5,895,469</i>	

TABLE 3: PROJECT FUNDING - #1526, GGB Suicide Deterrent System Construction

SOURCE OF FUNDS	CURRENT AMOUNT	PROPOSED ADJUSTMENT	ADJUSTED AMOUNT
MTC-STP Funds	\$74,910,000	\$0	\$74,910,000
Caltrans HBP Funds	\$58,140,000	\$0	\$58,140,000
GGBHTD District	\$78,434,407	<u>\$5,308,305</u>	<u>\$83,742,712</u>
MHSOAC	\$7,000,000	\$0	\$7,000,000
Cell Site Revenues	\$584,604	\$0	\$584,604
Donations	\$38,725	\$0	\$38,725
TOTAL	\$219,107,736	\$5,308,305	\$224,416,041