



Agenda Item No. (4)

To: Building and Operating Committee/Committee of the Whole
Meeting of October 26, 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. 2010-B-1, GOLDEN GATE SUSPENSION BRIDGE
SEISMIC RETROFIT DESIGN SERVICES, WITH HDR ENGINEERING,
INC.**

Recommendation

The Building and Operating Committee recommends that the Board of Directors approve the following actions relative to the Professional Services Agreement (PSA) No. 2010-B-1, *Golden Gate Suspension Bridge Seismic Retrofit Design Services*:

1. Authorize execution of the Thirteenth Amendment to PSA No. 2010-B-1, with HDR Engineering, Inc., Walnut Creek, CA, in an amount not-to-exceed \$351,150, for additional engineering design services associated with the *Golden Gate Suspension Bridge Seismic Retrofit Project, (Project #1923)*; and,
2. Establish a 10% contingency for the amendment in the amount of \$35,100,

with the understanding that sufficient funds are available in the FY 23/24 Bridge Division Capital Budget for Project #1923 to finance the Thirteenth Amendment to the PSA and its contingency.

This matter will be presented to the Board of Directors at its October 27, 2023, meeting for appropriate action.

Summary

By Resolution No. 2009-070, the Board of Directors authorized execution of PSA No. 2010-B-1, with HDR Engineering, Inc. (HDR), to reevaluate and update the Suspension Bridge seismic retrofit strategy and to prepare the final design, plans, and technical specifications for the Golden Gate Bridge Seismic and Wind Retrofit of the Suspension Bridge.

HDR has completed the seismic retrofit strategy and progressed the design to approximately 85% complete status. The wind retrofit design was completed and the construction was performed as a part of Construction Contract No. 2016-B-1, *Golden Gate Bridge Physical Suicide Deterrent*

System and Wind Retrofit project.

By Resolution No. 2018-049, the Board of Directors approved the use of the Construction Manager/General Contractor (CMGC) construction project delivery method for the construction of the Golden Gate Suspension Bridge Seismic Retrofit Project.

The Golden Gate Bridge, Highway and Transportation District (District) has advertised Request for Qualifications No. 2023-B-015, *Golden Gate Suspension Bridge Seismic Retrofit CMGC Preconstruction Services*. The District plans to award a CMGC Preconstruction Services Agreement in December 2023 and to begin the work under the Agreement in January 2024. The CMGC Preconstruction scope of services includes, among other tasks, reviewing and commenting on design plans and specifications and other relevant project documents.

The CMGC project delivery method allows the District to engage a construction contractor during the final Project design stage to provide consulting services related to various aspects of the Project construction (Preconstruction Services), including developing construction means and methods, construction work access plan, construction schedule and establishing a construction contract price. After design plans and specifications for the Project are finalized, the District plans to request that the CMGC prepare and submit a price for the Project construction. If the proposed price is accepted by the District, a Construction Contract will be issued to the CMGC so that the construction of the Project can begin. If the proposed price is not accepted by the District, the District, in its sole discretion, reserves the right to end the CMGC's participation in the Project and advertise the Project for construction bids.

Upon award of the CMGC Preconstruction Services Agreement, the District will provide to the selected CMGC the 85% completed design plans, specifications, and other relevant documents for their review and use in performing the preconstruction scope of services leading to establishing the construction price. The District reviewed the design plans and specifications with HDR and determined that the plans and specifications must be updated as listed below before they are provided to the CMGC. The District determined that HDR needs to perform the following scope of services by January 2024:

- Converting the specifications to conform to the 2023 Caltrans Standard Specifications.
- Updating the design plans and specifications to include the Suicide Deterrent System details, since these were not originally included in the design scope.
- Updating the design plans and specifications to include modification to the Energy Dissipation Device (EDD) details based on the results of the EDD stainless steel tests.
- Updating the design plans and specifications to remove the Lincoln Boulevard and Toll Plaza Undercrossing upgrades from the construction documents because this work will not be included in this Project.
- Updating the technical specifications for the Fort Point Arch EDD modifications.
- Updating the EDD calculation to account for the Duplex stainless steel components and to account for the various EDD types.
- Updating the EDD enclosure details.

Engineering staff requested, and HDR has provided, a scope of work and a cost proposal in the amount of \$351,150 for performing the engineering design services noted above. Engineering staff has reviewed the cost proposal and found it to be reasonable in terms of HDR's budgeted

labor hours to perform the additional scope of services requested by the District and it was consistent with HDR's audited labor and overhead billing rates. HDR will be compensated for actual time expended and expenses incurred, plus a fixed fee, for the not-to-exceed authorized amount.

Staff recommends that the Building and Operating Committee recommend that the Board of Directors authorize the execution of the Thirteenth Amendment to PSA No. 2010-B-1, with HDR Engineering, Inc., in the not-to-exceed amount of \$351,150, to perform the additional design services as presented in this staff report. Staff also recommends that a contingency for this Thirteenth Amendment in the amount of \$35,100 be established for any additional scope of services that may develop while work progresses.

The District's Disadvantaged Business Enterprise (DBE) Program Administrator has determined that there will be no DBE participation associated with the work under the Thirteenth Amendment.

Fiscal Impact

The *Golden Gate Suspension Bridge Seismic Retrofit Project* (Project #1923) is included in the FY 2023/24 Bridge Division Capital Budget with a total project budget of \$11,305,507.

Sufficient funds are available in the Project budget to finance the Thirteenth Amendment to PSA No. 2010-B-1 with HDR Engineering, Inc., in the not-to-exceed amount of \$351,150, for additional design services and a contingency in the amount of \$35,100 for this amendment.

History of PSA No. 2010-B-1:

	DATE APPROVED	DESCRIPTION	AMOUNT	SOURCE OF FUNDS
PSA No. 2010-B-1	11/17/2010	Original Contract PSA No. 2010-B-1, Phase IIIB Design Services; Resolution No. 2009-070	\$18,258,232	100% Federal (part of the Phase IIIB Design budget)
1 st Amendment	10/3/2012	Wind-Lock Repair Design; (under the GM authority)	\$24,576	100% District (not part of the Phase IIIB Design budget)
2 nd Amendment	7/3/2013	Additional Wind-Lock Repair Design; (under the GM authority)	\$11,449	100% District (not part of the Phase IIIB Design budget)
3 rd Amendment	9/26/2013	No cost time extension	\$0	
4 th Amendment	3/4/2015	EDD Testing, Resolution No. 2015-008	\$1,521,789	100% Federal

	DATE APPROVED	DESCRIPTION	AMOUNT	SOURCE OF FUNDS
1 st Addendum to 4 th Amendment	1/25/2016	Additional EDD Testing; (under the GM authority)	\$152,034	(part of the Phase IIIB Design budget)
		Total 4 th Amendment	\$1,673,823	
5 th Amendment	10/9/2015	Bid support during advertising period of the Wind Retrofit, Contract No. 2016-B-1, Resolution No. 2015- 090	\$70,469	100% Federal (part of the Wind Retrofit Construction budget)
		----- Actual Spent	----- \$45,160	
		Remaining Balance reallocated to 2 nd Addendum to 7 th Amendment, Resolution No. 2020- 028	(\$25,309)	
6 th Amendment	12/31/2016	No cost time extension	\$0	
7 th Amendment	1/16/2017	Engineering support services during the Wind Retrofit Project construction, Resolution No. 2016-088	\$300,000	100% Federal (part of the Wind Retrofit Construction budget)
1 st Addendum to 7 th Amendment	12/18/2019	Additional engineering support services during the Wind Retrofit construction	\$30,000	
2 nd Addendum to 7 th Amendment	5/29/2020	Additional engineering support services during the Wind Retrofit construction, Resolution No. 2022-028	\$106,752	

	DATE APPROVED	DESCRIPTION	AMOUNT	SOURCE OF FUNDS
3rd Addendum to 7 th Amendment	01/25/2021	No cost time extension	\$0	
4 th Addendum to 7 th Amendment	10/28/2022	Additional engineering support services during the Wind Retrofit construction, Resolution No. 2022-085	\$39,868	
5 th Addendum to 7 th Amendment	12/8/2022	No cost time extension	\$0	
		----- Total 7 th Amendment	----- \$476,620	
8 th Amendment	3/6/2017	Additional design services, Resolution No. 2017-017	\$2,200,000	100% Federal (part of the Phase IIIB Design budget)
9 th Amendment	05/26/2017	Wind tunnel testing, Resolution No. 2017- 047	\$191,000	100% Federal (part of the Phase IIIB Design budget)
1 st Addendum to 9 th Amendment	11/20/2017	Additional wind tunnel testing, Resolution No. 2017-106	\$216,500	
2nd Addendum to 9 th Amendment	07/27/2020	Additional wind tunnel testing, Resolution No. 2020-044	\$260,217	
3rd Addendum to	06/01/2021	Additional wind tunnel testing, Resolution No. 2020-044 contingency	\$39,000	

	DATE APPROVED	DESCRIPTION	AMOUNT	SOURCE OF FUNDS
9 th Amendment	06/25/2021			
4 th Addendum to 9 th Amendment		Additional wind tunnel testing and acoustic analysis of the new bridge railing, Resolution No, 2021-043	\$130,418	
		Total 9th Amendment	\$837,135	
10 th Amendment	8/14/2017	Assistance with preparation of the Risk Assessment Plan and Major Project Management Plan, Resolution No. 2017-068	\$399,000	100% Federal (part of the Phase IIIB Design budget)
11 th Amendment	6/26/2019	Additional design services to develop stainless steel welding procedures for the fabrication of the energy dissipation devices, Resolution No. 2019-037	\$235,500	100% Federal (part of the Phase IIIB Design budget)
12 th Amendment	8/25/2023	e-Builder software module customization and staff training, Resolution No. 2023-054	\$399,637	100% Federal (part of the CMGC Preconstruction Phase Project Budget)
13 th Amendment (proposed)	<i>This staff report</i>	<i>Additional engineering design services</i>	<i>\$351,150</i>	<i>100% Federal (part of the CMGC Preconstruction Phase Project Budget)</i>

	DATE APPROVED	DESCRIPTION	AMOUNT	SOURCE OF FUNDS
		TOTAL PSA AMOUNT <i>Proposed</i>	<i>\$24,912,318</i>	

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