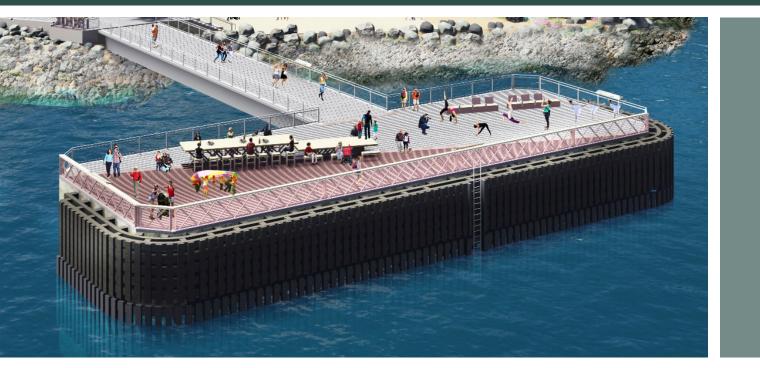
San Francisco Bay Area Toll Bridge Seismic Retrofit Program

2018 First Quarter Project Progress and Financial Update







Toll Bridge Program Oversight Committee Department of Transportation Office of the Director 1120 N Street P.O. Box 942873 Sacramento, CA 94273-0001

May 16, 2018

Mr. Daniel Alvarez Secretary of the Senate State Capitol, Room 3044 Sacramento, CA 95814

Mr. E. Dotson Wilson Chief Clerk of the Assembly State Capitol, Room 3196 Sacramento, CA 95814

Dear Messrs. Alvarez and Wilson:

The Toll Bridge Program Oversight Committee (TBPOC) is pleased to submit the 2018 First Quarter Project Progress and Financial Update, for the San Francisco Bay Area Toll Bridge Seismic Retrofit Program (TBSRP), prepared pursuant to California Streets and Highways Code Section 30952.

The TBPOC was established by Assembly Bill 144 in 2005 to oversee the delivery of the TBSRP and consists of the Executive Director of the Bay Area Toll Authority (BATA), the Director of the California Department of Transportation (Caltrans), and the Executive Director of the California Transportation Commission (CTC). With the opening of the new east span of the San Francisco-Oakland Bay Bridge (SFOBB) to traffic on September 2, 2013, all seven state-owned toll bridges in the Bay Area have now achieved seismic safety either via retrofit, or via replacement of existing structures.

With removal of the old east span nearly complete, the TBPOC is on the verge of concluding our oversight role over the Toll Bridge Seismic Retrofit Program and to transition the new east span from a construction phase to an operations and maintenance phase under Caltrans and BATA oversight, like all other Bay Area State-owned toll bridges. Remaining work on the east span includes removal of remaining bridge foundations, close-out of several construction contracts, and fulfillment of remaining environmental and right-of-way requirements. The TBPOC anticipates substantial completion of these activities, including in-water work, by the end of 2018.

In addition to imploding two remaining bridge foundations, the TBPOC is proceeding with opportunities to reuse marine foundations E2 along Yerba Buena Island and E21 to E23 along the Oakland shoreline for public access. Caltrans has initiated an environmental enhancement proposal and revalidation with resource agencies for approval. Caltrans is discussing operations and maintenance agreements with the East Bay Regional Parks District, the Treasure Island Development Authority, and the Bay Conservation and Development Commission for several walkway alternatives. The cost

and benefits of repurposing the piers versus removal were important factors in the TBPOC's decision to move forward with public access facilities.

The Legislature established the TBSRP to seismically retrofit seven state-owned long span toll bridges and provided an \$8.685 billion budget to accomplish the work. In 2010, the Legislature added two additional long span bridges (Antioch & Dumbarton) to the TBSRP and augmented the program's budget by \$750 million, thus creating a nine bridge TBSRP with a \$9.435 billion budget. Based upon successful completion of the Antioch and Dumbarton Bridge seismic retrofits with substantial savings, and projected TBSRP risks for demolition of the old east span, the TBPOC later reduced the approved program budget by \$483 million, bringing the current TBPOC approved budget to \$8.952 billion.

On program risks, each contract has a contingency allowance within its budget. The sum of these contingency allowances is compared to the total of capital outlay, capital outlay support and program-wide risks. Any excess of the risks over the contingency allowances represents a potential draw on the program contingency. The program contingency is currently \$16 million in accordance with the TBPOC approved budget. As of the end of the first quarter of 2018, the 50 percent probable draw on program contingency is \$40 million, resulting in a forecast deficit of \$24 million to the current budget. The potential draw ranges from a surplus of up to \$30 million to a deficit of up to \$100 million. Per the latest forecast, the \$8.952 billion TBPOC approved budget may be insufficient to cover the cost of identified risks and it is possible that BATA will need to allocate toll funds from its reserves to pay for the remaining TBSRP work.

The TBPOC is committed to providing the Legislature and the CTC with comprehensive and timely reporting on the TBSRP. If there are any questions, or if any additional information is required, please do not hesitate to contact the members of the TBPOC.

Sincerely,

STEVE HEMINGER TBPOC Chair Executive Director Bay Area Toll Authority

LAURIE BERMAN Director California Department of Transportation

WAL BRAUSER

SUSAN BRANSEN Executive Director California Transportation Commission



Toll Bridge Program Oversight Committee Department of Transportation Office of the Director 1120 N Street P.O. Box 942873 Sacramento, CA 94273-0001

May 16, 2018

Ms. Fran Inman, Chair California Transportation Commission 1120 N Street, Room 2221 Sacramento, CA 95814

Mr. James Earp, Vice-Chair California Transportation Commission 1120 N Street, Room 2221 Sacramento, CA 95814

Dear Ms. Inman and Mr. Earp:

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The TBPOC is committed to providing the Legislature and the CTC with comprehensive and timely reporting on the TBSRP. If there are any questions, or if any additional information is required, please do not hesitate to contact the members of the TBPOC.

Sincerely,

STEVE HEMINGER TBPOC Chair Executive Director Bay Area Toll Authority

LAURIE BERMAN Director California Department of Transportation

SILIAN BRUKEL

SUSAN BRANSEN Executive Director California Transportation Commission

Program Management Team

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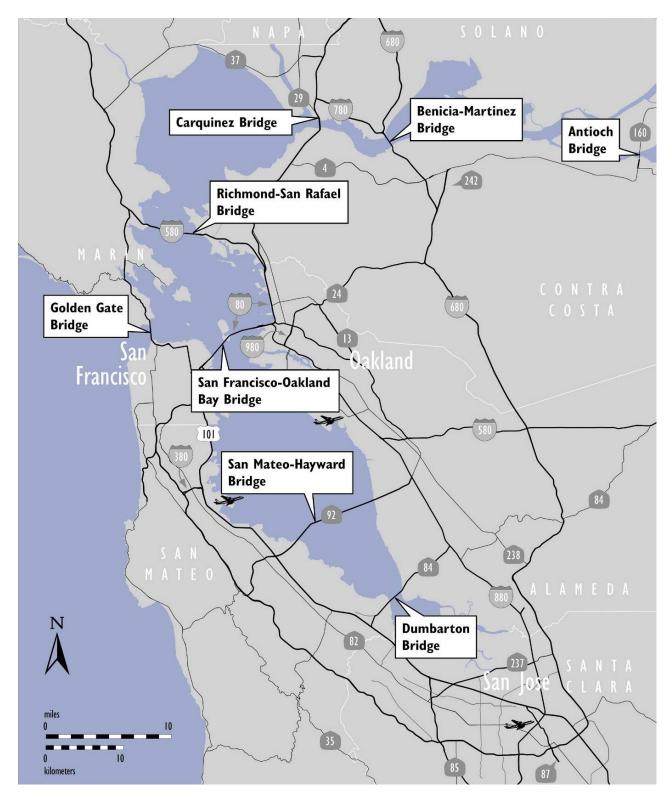
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Cover: Proposed public access facilities at Oakland and Yerba Buena Island shorelines. *Renderings by Caltrans.*

Contents: SFOBB East Spans, looking east. *Photo by Caltrans.*

Back cover: SFOBB East and West Spans, looking west. Photo by Caltrans.

San Francisco Bay Area Toll Bridges



* The Golden Gate Bridge is owned and operated by the Golden Gate Bridge, Highway and Transportation District.

San Francisco Bay Area Toll Bridges

In July 2005, Assembly Bill (AB) 144 (Hancock) created the Toll Bridge Program Oversight Committee (TBPOC) to implement a project oversight and project control process for the new Benicia-Martinez Bridge and State Toll Bridge Seismic Retrofit Program (TBSRP) projects. The TBPOC consists of the Director of the California Department of Transportation (Caltrans), the Executive Director of the Bay Area Toll Authority (BATA) and the Executive Director of the California Transportation Commission (CTC). The TBPOC's project oversight and control processes include, but are not limited to, reviewing bid specifications and documents, reviewing and approving significant change orders and claims in excess of \$1 million (as defined by the TBPOC), and keeping the Legislature and others apprised of current project progress and status. In January 2010, Assembly Bill (AB) 1175 (Torlakson) amended the TBSRP to include the Antioch and Dumbarton Bridges seismic retrofit projects. The current TBSRP is as follows:

Toll Bridge Seismic Retrofit Projects	Seismic Safety Status
Dumbarton Bridge Seismic Retrofit	Complete
Antioch Bridge Seismic Retrofit	Complete
San Francisco-Oakland Bay Bridge East Span Replacement	Complete*
San Francisco-Oakland Bay Bridge West Approach Replacement	Complete
San Francisco-Oakland Bay Bridge West Span Seismic Retrofit	Complete
San Mateo-Hayward Bridge Seismic Retrofit	Complete
Richmond-San Rafael Bridge Seismic Retrofit	Complete
1958 Carquinez Bridge Seismic Retrofit	Complete
1962 Benicia-Martinez Bridge Seismic Retrofit	Complete
San Diego-Coronado Bridge Seismic Retrofit	Complete
Vincent Thomas Bridge Seismic Retrofit	Complete

* The seismic safety opening of the bridge occurred in September 2013. Remaining work on the project is the removal of the old bridge structure.

Toll Bridge Seismic Retrofit Program Cost Summary (Millions)

	Contract Status	AB 144/ SB 66/ AB 1175 Budget	TBPOC Approved Changes	Current TBPOC Approved Budget (Mar. 2018)	Cost to Date (Mar. 2018)	Current Cost Forecast (Mar. 2018)	Cost Variance	Cost Status
		а	b	c = a + b	d	е	f = e - c	
SFOBB East Span Seismic Replacement								
Capital Outlay Construction								
Skyway	Completed	1,293.0	(56.9)	1,236.1	1,235.6	1,236.1	-	•
SAS Tower Anchor Rod Grouting	Completed	-		8.9	8.7	8.9	-	•
SAS Marine Foundations	Completed	313.5	(38.7)	274.8	274.8	274.8	-	•
SAS Superstructure	Completed	1,753.7	281.1	2,034.8	1,973.4	2,036.9	2.1	•
YBI Detour	Completed	131.9	341.4	473.3	473.4	473.4	0.1	•
YBI Transition Structures (YBITS)		299.3	13.6	312.9	310.4	312.1	(0.8)	•
YBITS 1	Completed		-	203.7	203.2	203.8	0.1	•
YBITS 2	Completed		-	109.2	107.2	108.3	(0.9)	•
Oakland Touchdown (OTD)		283.8	42.6	326.4	326.5	326.5	0.1	•
OTD 1	Completed		-	202.8	202.8	202.8	-	•
OTD 2	Completed		-	71.2	71.2	71.2	-	•
Detour	Completed		-	46.7	46.7	46.7	-	•
Submerged Electric Cable	Completed		-	5.7	5.7	5.7	-	•
Existing Bridge Dismantling		239.2	92.1	331.3	273.1	348.0	16.7	•
Cantilever Section	Completed		-	69.0	68.5	69.0	-	•
504/288 Sections	Completed		-	81.8	78.2	81.8	-	•
Marine Foundations			-	180.5	126.4	197.2	16.7	•
Pier-3 Demonstration Project	Completed		-	16.8	16.8	16.8	-	•
Remaining Marine Foundations	Construction		-	163.7	109.6	180.3	16.6	•
E4 to E18 Pier Demolition	Completed		-	111.7	109.5	111.7	-	•
E2, E19 to E22 Pier Retention	Construction		-	52.0	-	68.6	16.6	•
Stormwater Treatment Measures	Completed	15.0	1.9	16.9	16.9	16.9	-	•
Other Completed Projects	Completed	90.4	(0.5)	89.9	90.0	90.0	0.1	•
Capital Outlay Support		959.3	390.1	1,349.4	1,330.4	1,369.4	20.0	•
Right-of-Way and Envir. Mitigation		72.4	-	72.4	61.1	70.0	(2.4)	•
Other Budgeted Capital		35.1	(34.4)	0.7	0.7	0.7	(0.0)	•
Total SFOBB East Span Replacement		5,486.6	1,041.3	6,527.9	6,374.9	6,563.4	35.5	•
Antioch Bridge Seismic Retrofit								
Capital Outlay Support and Mitigation	Completed	-	24.1	24.1	24.1	24.2	0.1	•
Capital Outlay Construction		-	47.0	47.0	47.0	47.0	-	•
Total Antioch Bridge Seismic Retrofit		267.0	71.1	71.1	71.1	71.2	0.1	•
Dumbarton Bridge Seismic Retrofit								
Capital Outlay Support and Mitigation	Completed	-	47.5	47.5	47.4	47.5	-	•
Capital Outlay Construction		-	64.9	64.9	64.4	64.7	(0.2)	•
Total Dumbarton Bridge Seismic Retrofit		483.0	112.4	112.4	111.8	112.2	(0.2)	•
Program Completed Projects	Completed	2,268.4	(74.1)	2,194.3	2,169.5	2,169.9	(24.4)	•
Miscellaneous Program Costs		30.0	-	30.0	26.0	26.0	(4.0)	•
Net Programmatic Risks		-	-	-	-	33.4	33.4	•
Program Contingency*		900.0	(883.7)	16.3	-	-	(16.3)	•
Total Toll Bridge Seismic Retrofit Program*		9,435.0	(483.0)	8,952.0	8,753.5	8,976.0	24.0	•

*AB144/SB66 established a funding level of \$8.685 Billion in July 2005 for TBSRP, AB1175 added the retrofitting of the Antioch and Dumbarton Bridges in January 2010, providing another \$750 million in funding, bringing Total Toll Seismic Retrofit Program funding to \$9.435 Billion. Since 2010, \$483 million has been removed from the program, bringing the current TBPOC Approved Budget to \$8.952 Billion. The \$483 million removed consisted of:

Antioch Savings (4/12/10) \$137 million - Dumbarton Savings (9/02/10) \$216 million - Program Contingency Redirection (11/05/13) \$130 million, the current TBPOC approved Program Budget is \$8,952 million. **(Due to the rounding of numbers, the totals above are show within \$0.1).

Toll Bridge Seismic Retrofit Program Schedule Summary

	-		•			
	AB 144/SB 66 Project Completion Schedule Baseline (July 2005)	TBPOC Approved Changes (Months)	Current TBPOC Approved Completion Schedule (Mar. 2018)	Current Completion Forecast (Mar. 2018)	Schedule Variance (Months)	Schedule Status
	g	h	i=g+h	j	k=j-i	I
SFOBB East Span Seismic Replacement						
Contract Completion						
Skyway	Apr 2007	8	Dec 2007	Dec 2007	-	•
SAS Marine Foundations	Jun 2008	(5)	Jan 2008	Jan 2008	-	•
SAS Superstructure	Mar 2012	42	Sep 2015	Sep 2015	-	•
YBI Detour	Jul 2007	39	Oct 2010	Oct 2010	-	•
YBI Transition Structures (YBITS)	Nov 2013	36				
YBITS 1			Feb 2014	Feb 2014	-	•
YBITS 2			Nov 2017	Nov 2017	-	•
Oakland Touchdown	Nov 2013	10				
OTD 1			Jun 2010	Jun 2010	-	•
OTD 2			Sep 2015	Sep 2015	-	•
Submerged Electric Cable			Jan 2008	Jan 2008	-	•
Existing Bridge Dismantling	Sep 2014	51	Dec 2018	Dec 2017	-	•
Cantilever Section (2)			Jul 2015	Jul 2015	-	•
504/288 Sections			Mar 2018	Jun 2017*	9	•
Marine Foundations						
E3 Foundation Removal Demo Project	t		Jan 2016	Jan 2016	-	•
E4 - E18 Foundation Removal			Dec 2018	Dec 2017	12	•
E2, E19 to E22 Pier Retention			Mar 2019	Mar 2019	-	•
Stormwater Treatment Measures			Mar 2008	Mar 2008	-	•
SFOBB East Span Bridge Opening and Other M	lilestones					
Westbound Seismic Safety Open	Sep 2011	24	Sep 2013	Sep 2013	-	•
Eastbound Seismic Safety Open	Sep 2012	12	Sep 2013	Sep 2013	-	•
Bike/Ped Path to YBI Landing			Dec 2015	Oct 2016	-	•
Eastbound On-Ramp			Jun 2016	Jun 2016	-	•

* Substantial completion date

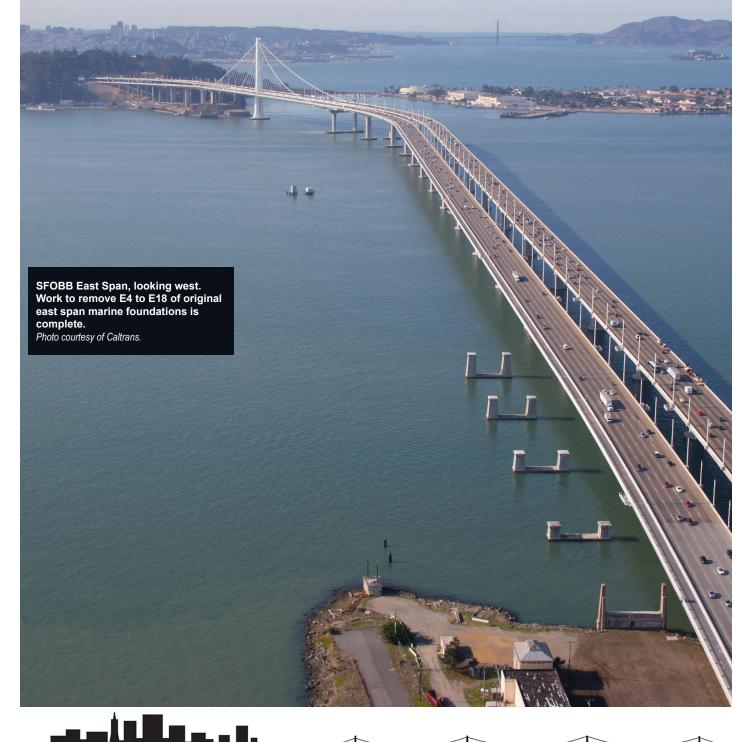
• Within approved schedule and budget

Identified potential project risks that could significantly impact approved schedules and budgets if not mitigated

Known project impacts with forthcoming changes to approved schedules and budgets

Seismic Retrofit

Rather than a seismic retrofit, the two-mile long east span of the San Francisco-Oakland Bay Bridge has been completely rebuilt. The new east span consists of several different sections, yet appears as a single streamlined span. The eastbound and westbound lanes of the east span no longer include upper and lower decks. The lanes are side-by-side, providing motorists with expansive views of the bay. These views are also enjoyed by bicyclists and pedestrians, thanks to a new bicycle/pedestrian path on the south side of the bridge that will extend all the way to Yerba Buena Island. The new span features the world's longest Self-Anchored Suspension (SAS) bridge that connects to an elegant roadway supported by piers (Skyway), which gradually slopes down toward the Oakland shoreline (Oakland Touchdown).



Active Contracts

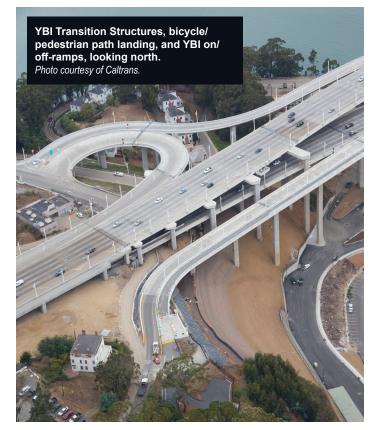
YBITS 2 - Eastbound On-Ramp and Cantilever Dismantling

Approved Capital Outlay Budget: \$109.2 M Contractor: CEC & Silverado, JV Status: 100% Complete as of December 2017

The YBITS 2 contract involves dismantling the detour viaduct, constructing a new eastbound on-ramp to the bridge, completing the bicycle/pedestrian path to Yerba Buena Island, and dismantling the cantilever.

The contract was awarded to California Engineering Contractors Inc./Silverado Contractors Inc., Joint Venture on November 28, 2012. Startup activities and submittals began in March 2013, with actual dismantling starting after the seismic safety opening during Labor Day weekend in 2013.

Status: Cantilever removal was completed in July 2015. The eastbound on-ramp was opened on June 2, 2016. The pedestrian/bicycle path opened in October 2016. Construction was complete on November 29, 2017.



504'/288' Superstructure Dismantling

Approved Capital Outlay Budget: \$81.8 M Contractor: CEC & Silverado JV Status: 100% Complete as of March 2018

The contractor sequenced the bridge removal operations into seven phases of dismantling beginning with the upper deck and initial truss removal, followed by the removal of the 504' and 288' steel truss spans, and ending with the removal of the supporting steel columns.

Status: The first of five 504' main truss spans was lowered in February 2016. The last 504' section was lowered in August 2016. The first of fourteen 288' sections was lowered in November 2016. The last section was lowered in March 2017. The project reached substantial completion in June 2017.

Marine Foundations Removal

Approved Capital Outlay Budget: \$16.8 M for Pier E3 \$111.7 M for Piers E4 - E18 Contractor: Kiewit/Manson

The original east span of the San Francisco-Oakland Bay Bridge was supported by 21 in-water bridge piers, Piers E2 through E22, along with land based piers at Yerba Buena Island and Oakland. Part of this project is the demolition of Pier E3, which is located 1,535 feet east of Yerba Buena Island and on the east side of a 50-foot deep navigation channel.

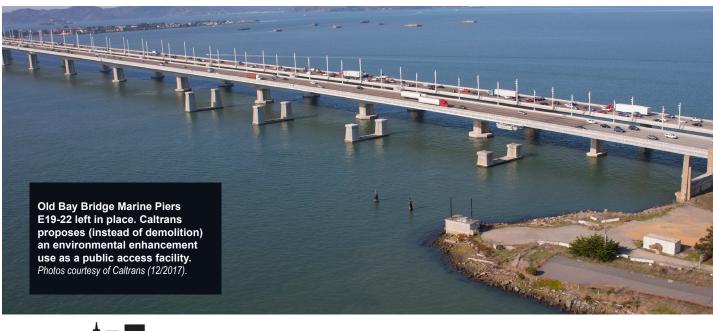
The original authorization covered the dismantling of the piers via mechanical means such as saw cutting, flame cutting, mechanical splitting or pulverizing, and hydrocutting, but did not cover the use of controlled implosion.

Caltrans proposed to remove Pier E3 as a pilot/ demonstration project for the effective use of controlled charges to remove the marine foundations of the original SFOBB. Dismantling of Pier E3 used controlled charges and was completed in four phases: 1) mechanical dismantling of pier cap and fender system, 2) drilling of bore holes into caisson and buttress walls and installing a blast attenuation system (BAS), 3) installing charges, activating the BAS and imploding the pier, and 4) management and removal of remaining dismantling pier debris. The pier was removed in November 2015 to -51 feet. Mechanical dismantling would have required the installation of a cofferdam around Pier E3, which would have required 394 piles of various types. Pile driving alone would take approximately four years, while the four phases of the demonstration project would occur within six months. Using this method is a significant cost risk to the program.

The marine foundation removal is a CMGC (Construction Manager / General Contractor) contract and the selected CMGC contractor is a Kiewit Manson team (KM).

Piers E4 - E18: The contract was awarded to the KM team in April 2016. Marine foundations E5 and E4 were demolished by implosion in October 2016. Caltrans obtained environmental permits to remove marine foundations E4 through E18 by implosion. The removal of the superstructure trusses advanced faster than expected, and provided Caltrans and their marine demolition contractor the opportunity to complete all implosions by the end of 2017. Caltrans is seeking permits from resource agencies to "retain in place" foundations E2, and E19 through E22 for a proposed public access project.

Status: Thirteen marine foundations (E6 through E18 were imploded over six weekends, every other week, between September 2, 2017 and November 11, 2017.



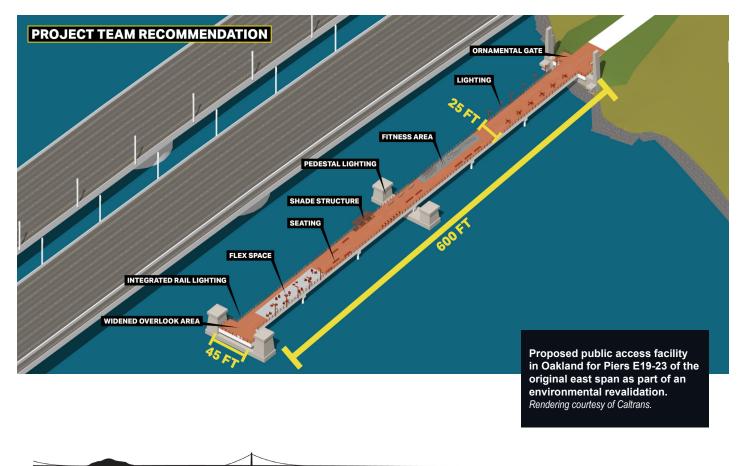


Marine Foundation Pier Retention and Public Access Facilities

Proposed Capital Outlay Budget: \$52 M Contractor: Kiewit/Manson

The Bay Bridge project environmental document and resource agency permits included removing all marine based piers of the old Bay Bridge east span. At the April 2017 and August 2017 TBPOC meeting the TBPOC members confirmed a decision to not demolish shoreline marine piers E2, E19-22 as part of ongoing CMGC construction pier removal and to begin the process for an environmental enhancement for public access facilities instead of demolition along both the YBI shoreline and Oakland shoreline. Upon the August 2017 TBPOC review of draft cost and the tasks schedule to complete the project in 2018, the project team began public discussions with stakeholders, contractor, and resource agencies responsible for permit approval and environmental document re/validation to timely design and include the environmental enhancement in the project (versus a separate project document adding 2 to 4 years to complete). The TBPOC approved the pier retention contract with Kiewit/Manson for \$52 million on March 26, 2018.

Temporary marine access work is expected to begin June 1, 2018. Due to environmental permitting requirements, major marine work will start in July and finish by December 31, 2018. With approval, the team will continue the final design, resource agency coordination, project environmental revalidation, and proceed on a construction contract process with the current marine foundation CMGC contractor to construct the environmental enhancement of retaining marine piers E2, E21-22 and removal of piers E19 and E20 for the purposes of public access and satisfaction of current environmental documents.

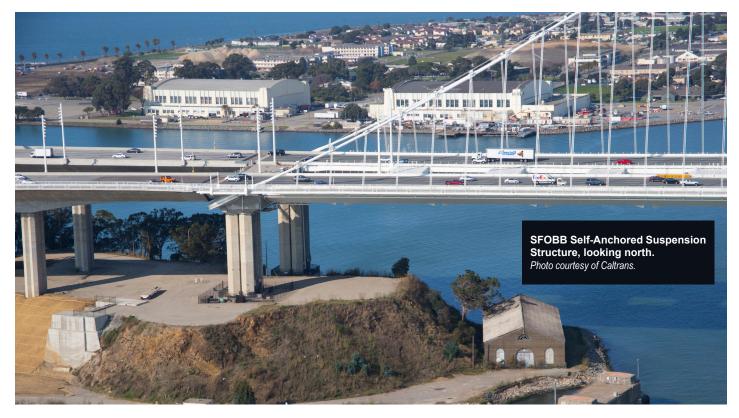


Self-Anchored Suspension Bridge Superstructure

Approved Capital Outlay Budget: \$2.04 B Contractor: American Bridge/Fluor Enterprises, JV Status: 100% Completed

The self-anchored suspension span (SAS) of the bridge is not just another suspension bridge. Rising 525 feet above mean sea level and embedded in bedrock, the single-tower SAS span is designed to withstand a massive earthquake. Traditional main cable suspension bridges have twin cables with smaller suspender cables connected to them. While there appears to be two main cables on the SAS, it is actually a single continuous cable. This single cable is anchored within the eastern end of the roadway, carried over the tower and then wrapped around the two side-by-side decks at the western end.

The single-steel tower is made up of four separate legs connected by shear link beams, which function much like a fuse in an electrical circuit. These beams will absorb most of the impact from an earthquake, preventing damage to the tower legs.



Status: The TBPOC authorized Caltrans to close out the Self-Anchored Suspension (SAS) span contract with the joint venture of American Bridge/Fluor (ABF). The contract is to be closed out under the terms and conditions consistent with the findings of the July 2013 TBPOC meeting investigative report that found three parties – the contractor, designer, and Caltrans – responsible for the failure of the high-strength rods on the east pier (E2) of the SAS, and the \$24 million cost of the "saddle retrofit" repair. The contract was accepted in September 2015 and is currently under the Public Works Arbitration Program, where the contractor's claim will be reviewed.

In May 2016, the Toll Bridge Program Oversight Committee (TBPOC) approved the re-grouting of the tower anchor rods based on recommendations from Caltrans and the peer review group. A contract for \$8.5 million was expeditiously awarded to the apparent low bidder on October 10, 2016. All re-grouting work was completed as of June 2017.

Risk Management Program Update

POTENTIAL DRAW ON PROGRAM RESERVE (PROGRAM CONTINGENCY)

Caltrans continues to implement comprehensive risk management on all TBSRP projects in accordance with AB 144. Cost Risk response efforts continue to focus on mitigating the estimated cost and schedule impacts of identified risks. The "bottom line" of cost risk analysis is whether the Program Contingency remains adequate to cover all identified risks.

Each contract has a contingency allowance within its budget. The sum of these contingency allowances is compared to the total of capital outlay, capital outlay support and program-wide risks. Any excess of the risks over the contingency allowances represents a potential draw on the program contingency. The program contingency, as of the first quarter 2018, is currently \$16.3 million in accordance with the TBPOC approved budget. As of the end of the first quarter of 2018, the 50 percent probable draw on program contingency is \$40.3 million. The potential draw ranges from about -\$30 million to \$100 million (refer to Figure 1). The \$40.3 million probable draw on program contingency gives a forecast deficit of \$24.0 million at program completion to the current approved program budget. This represents a \$17.0 million deterioration in the program's bottom line since last quarter and is wholly attributable to adding the public access facilities on both the YBI and Oakland shores to the program. In general, the bottom line trend has been improving for the last two years, with the forecast deficit decreasing by \$119 million (83%) since it peaked at \$143.2 million in the third quarter of 2015.

Since 2010, the TBPOC has approved the removal of \$483 million from the TBSRP budget (consisting of Antioch Savings (April 12, 2010) \$137 million, Dumbarton Savings (September 2, 2010) \$216 million and Program Contingency Redirection (November 5, 2013) \$130 million), bringing the current approved program budget to \$8.952 billion. The program contingency is currently insufficient to cover the cost of identified risks. It is likely that BATA will need to allocate additional toll funds from its reserves to pay for any residual deficit.

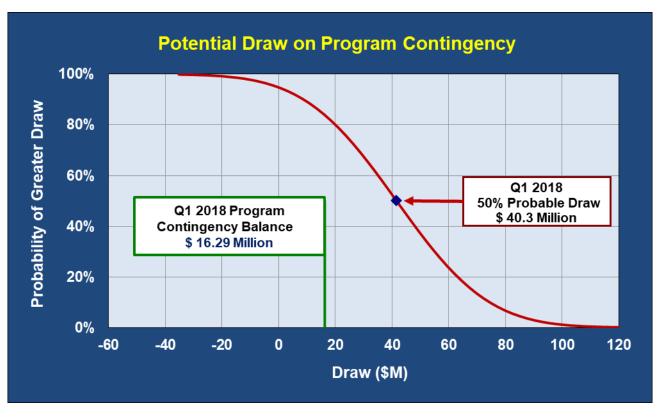


Figure 1 – Potential Draw on Program Contingency¹

1. Proposed architectural enhancements and project improvements are excluded unless approved by the TBPOC.

RISK MANAGEMENT DEVELOPMENTS

SFOBB East Span Capital Outlay Support (COS) Budget Budget to Completion: The first quarter (Q1) 2018 COS forecast to completion is \$1,369.2 million, which results in a cost variance of \$19.9 million to the current budget. This is a \$35.6 million improvement over the Q1 2015 forecast, when the COS forecast peaked at \$1,404.8 million. The current approved budget of \$1,349.4 million for SFOBB East Span COS will fund the program COS through the end of December 2018.

Expenditures vs. Budget for 2017/18 Fiscal Year: On August 28, 2017, the TBPOC approved a total COS budget of \$16.5 million for the 2017/18 fiscal year. An additional \$1 million for retention work on the E2, E19 to E23 Marine Foundations was also approved by the TBPOC at the same meeting. Finally, in the December 12, 2017 TBPOC meeting, the TBPOC approved an additional \$3 million for pursuing Pier Retention. This increases the final 2017/18 fiscal year COS budget to \$20.5 million (but by March 31, 2018 the \$3 million for Pier Retention has not yet been added to the budget). Total expenditures to date for 2017/18 are estimated at \$13.5 million, within the \$15.4 million in expected expenditures during this timeframe.

Self-Anchored Suspension (SAS) Span Contract

Contract Close Out: The SAS contract was accepted on September 25, 2015. The estimate after acceptance included several deductions as credit for issues that Caltrans determined were the responsibility of the contractor. The proposed final estimate was sent to the contractor on November 5, 2015 and since the total amount paid exceeded the amount due by \$8.5 million, the contractor owed a payment to Caltrans for that amount. The contractor submitted his exceptions to the proposed final estimate on November 6, 2015. The contractor documented twelve outstanding disputes totaling \$49.2 million in claims and filed for arbitration on May 23, 2016. The claims are now subject to the Public Works Contract Arbitration Program and could take several quarters to reach a conclusion.

SAS Tower Anchor Rod Grouting Contract

Contract Acceptance: The contract was accepted on December 26, 2017 and there are no outstanding disputes with the contractor at this time. The project team issued the proposed final estimate to the contractor in Q1 2018 and is currently awaiting the contractor's response.

504'/288' Dismantling Contract

Contract Acceptance: The contract was accepted in early April 2018 and there are no outstanding disputes with the contractor at this time. The project team is preparing the proposed final estimate, which will be issued to the contractor early in Q2 2018.

Yerba Buena Island Transition Structure #2 Contract

Contract Acceptance: The contract was accepted on November 29, 2017 and there are no outstanding disputes with the contractor at this time. The project team issued the proposed final estimate to the contractor in Q1 2018 and is currently awaiting the contractor's response.

Marine Foundation Removal Contract (E4 - E18)

Contract Acceptance: The contract was accepted on December 22, 2017 and there are no understanding disputes with the contractor at this time. The project team issued the proposed final estimate to the contractor in Q1 2018 and is currently awaiting the contractor's response.

Marine Foundation Removal Contract (E2, E19 - E22)

Pier Retention on YBI Shoreline: At the January 23, 2018 TBPOC meeting the project team presented various options for pier retention on the Oakland Mole at E23 to E19. This public access enhancement received support from the East Bay Regional Parks District and BCDC, as well as the broader community. The TBPOC approved proceeding with design of a 600-foot-long pier public access facility at E23 to E21, with plans to complete the design in Q1 2018, enter into a contract with the construction manager/general contractor (CMGC) by March 31, 2018, and complete work in 2018.

Awarded Contract for E2, E21, E22 Pier Retention & E19/E20 Demolition: All through Q1 2018 the project team continued to advance plans that showed the possibilities of incorporating the old piers into new public access facilities to the bay. The project team refined memos of understanding with interested parties on both the Oakland and Yerba Buena Island (YBI) sides of the bridge as to future maintenance and ownership of the piers. At the January 23, 2018 TBPOC meeting, the TBPOC directed the project team to negotiate a contract to retain piers E2, E21, E22 and create public access to them on both the YBI & Oakland shores and demolish piers E19 & E20. The TBPOC gave the project team the authority to enter into a contract not to exceed \$52 million. Cost estimates were negotiated with the Contractor and presented to the TBPOC for a final approval on March 26, 2018. Caltrans awarded the contract on April 3, 2018 with a contract allotment of \$52 million.

The Toll Bridge Seismic Retrofit Program had always included the cost of all pier removal in the program cost forecast, but the approval of this project enhancement will lead to the project's cost forecast (Capital & COS) increasing by \$17.3 million this quarter.

RISK MANAGEMENT LOOK AHEAD

SFOBB East Span COS Budget

Budget Increase: The current approved budget of \$1,349.4 million for SFOBB East Span COS will be fully expended and will need to be increased by the end of December 2018. Before the end of June 2018, the TBPOC will need to approve the 2018/19 COS allocation and an increase in the overall SFOBB East Span COS budget by a commensurate amount.

Self-Anchored Suspension Span Contract

The contract closeout effort will continue. The support cost budget will continue to accrue until final closeout is achieved.

SAS Tower Anchor Rod Grouting Contract

Project Close Out: The contractor will respond to Caltrans' proposed final estimate and the project team is planning to issue the final estimate in Q2 2018.

504'/288' Dismantling Contractt

Project Close Out: The project team is planning to issue the proposed final estimate in Q2 2018.

Yerba Buena Island Transition Structure #2 Contract

Project Close Out: The contractor will respond to Caltrans' proposed final estimate and the project team is planning to issue the final estimate in Q2 2018.

Marine Foundation Removal Contract (E4 - E18)

Project Close Out: The contractor will respond to Caltrans' proposed final estimate and the project team is planning to issue the final estimate in Q2 2018.

Marine Foundation Removal Contract (E2, E19 - E22)

Permitting of Pier Retention on both the YBI & Oakland Shorelines: The project team signed a contract with the CMGC to procure the marine access facilities to both sides of the bay in early April 2018. The environmental team now needs to secure the project permits from the environmental agencies in a timely manner. The project team will need the permits in hand by the end of Q2 2018 to enable the contractor to substantially complete the marine work on schedule by the end of 2018.



Program Funding Status

AB 144 established a funding level of \$8.685 billion for the TBSRP. As of January 1, 2010, seismic retrofitting of Antioch and Dumbarton Bridges became part of the Toll Bridge Seismic Retrofit Program with the passage of AB 1175, which provided another \$750 million bringing the total funding to \$9.435 billion. On April 9, 2010, the TBPOC approved a \$137 million reduction in the TBSRP program budget as a result of savings from the Antioch Bridge Retrofit. On September 2, 2010, the TBPOC approved a \$216 million reduction in the TBSRP program budget as a result of savings from the Dumbarton Bridge Retrofit. And finally, on November 5, 2013, the TBPOC approved a \$130 million reduction in the TBSRP program budget as a result of a reduction in the program contingency, bringing the current approved TBSRP budget to \$8.952 billion (see Appendix A-1). The program funding sources are shown in Table 1 - Program Budget.

Table 1 - Program Budget as of March 31, 2018	Budgeted	Funding Available & Contribution
Financing		
Seismic Surcharge Revenue AB 1171	2,282	.0 2,282.0
Seismic Surcharge Revenue AB 144	2,150	.0 2,150.0
Seismic Surcharge Revenue AB 1175 ⁽²⁾	750	.0 750.0
BATA Consolidation	820	.0 820.0
Subtotal - Financing	6,002	.0 6,002.0
Contributions		
Proposition 192	790	.0 789.0
San Diego Coronado Toll Bridge Revenue Fund	33	.0 33.0
Vincent Thomas Bridge	15	.0 6.9
State Highway Account ⁽¹⁾	745	.0 745.0
Public Transportation Account (1)	130	.0 130.0
ITIP/SHOPP/Federal Contingency (3)	448	.0 448.0
Federal Highway Bridge Replacement and Rehabilitation (HBRR) ⁽³⁾	642	.0 642.0
SHA - East Span Dismantling	300	.0 300.0
SHA - "Efficiency Savings"	130	.0 130.0
Redirect Spillover	125	.0 125.0
Motor Vehicle Account	75	
Subtotal - Contribution	3,433	.0 3,423.9
Total Funding	9,435	.0 9,425.9
Encumbered to Date		8,786.1
Remaining Unallocated		639.9
Expenditures :		
Capital Outlay		6,860.0
State Operations		1,877.9
Antioch and Dumbarton Expenditures by BATA		15.6
	Total Expenditures	8,753.5
Encumbrances :		
Capital Outlay		30.3
State Operations		2.3
	otal Encumbrances	32.5
Total Expenditures and Encumbrances		8,786.1

(1) The Vincent Thomas Bridge state funds contribution was finalized in legislation and statutes to be \$6.9 million and no additional funds were identified. The program has identified an opportunity for an additional funding of \$14.8 million from Toll Bridge West Approach excess right of way sales, which will be credited to be program in the coming quarters.

⁽²⁾ The California Transportation Commission adopted a new schedule and changed the PTA/SHA split on December 15, 2005.

(3) As of January 1, 2010, seismic retrofitting of Antioch and Dumbarton Bridges became part of the Toll Bridge Seismic Retrofit Program with the passage of AB 1175.

(4) The Skyway contract is the only contract in the San Francisco-Oakland Bay Bridge East Span Seismic Safety Project with federal funds. The Federal Aid Project No. is 0801(090) for the amount of \$321,645,209.22. No other federal funds will be used on this project in the future.

Summary of the Toll Bridge Oversight Committee Expenses

Pursuant to Streets and Highways Code Section 30952.1 (d), expenses incurred by Caltrans, BATA, and the California Transportation Commission (CTC) for costs directly related to the duties associated with the TBPOC are to be reimbursed by toll revenues. Table 3 -Toll Bridge Program Oversight Committee Estimated Expenses: July 1, 2005, through March 31, 2018, for TBPOC functioning, support, and monthly and quarterly reporting.

Table 2—CTC Toll Bridge Seismic Retrofit Program Contributions Adopted December 2005 Schedule of Contributions to the Toll Bridge Seismic Retrofit Program (\$ Millions)

Source	Description	2005-06 (Actual)	2006-07 (Actual)	2007-08 (Actual)	2008-09 (Actual)	2009-10 (Actual)	2010-11 (Actual)	2011-12 (Actual)	2012-13 (Actual)	2013-14 (Actual)	Total
	SHA	290									290
	PTA	80	40								120
AB 1171	Highway Bridge Replacement and Rehabilitation (HBRR)	100	100	100	42						342
	Contingency				1	99	100	100	148		448
	SHA*	2	8				53	50	17		130
AB 144	Motor Vehicle Account (MVA)	75									75
	Spillover		125								125
	SHA**									300	300
	Total	547	273	100	43	99	153	150	165	300	1830

*** Actual as of March 31, 2018

Table 3—Toll Bridge Program Oversight Committee Estimated Expenses: July 1, 2005 through March 31, 2018 (\$ Millions)

Agency/Program Activity	Expenses
BATA	3.0
Caltrans	3.9
стс	3.3
Reporting	5.9
Total Program	16.1

Quarterly Environmental Compliance Highlights

Overall environmental compliance for the San Francisco-Oakland Bay Bridge (SFOBB) East Span Seismic Safety Project (SFOBB Project) has been a success during the first quarter of 2018. The tasks for the current quarter were focused on the fall 2017 pier implosion compliance monitoring, pier retention permitting, and ongoing bird monitoring.

Key Successes

Bird monitoring was conducted weekly in compliance with the project's Bird Monitoring Plans. The goal of this monitoring was to document bird nesting locations in preparation of the start of the pier retention construction contract. Meetings have been held periodically throughout the quarter between Caltrans' biologists, resident engineer, and construction contractors to discuss bird management issues and the ongoing strategy for the installation of nesting bird impact avoidance management measures.

In compliance with the regulatory requirements associated with permits and approvals authorizing the implosion of Piers E6 to E18, Caltrans submitted the Marine Foundation Removal Project 2017 Post-Blast Environmental Report to all applicable resource agencies on March 28, 2018. The environmental team worked closely with the project team to assemble the report, and no significant compliance issues were noted in the report.

An inter-agency meeting was held with the Bay Conservation and Development Commission (BCDC), US Fish and Wildlife Service, National Marine Fisheries Service (NMFS), US Army Corps of Engineers (USACE), US Coast Guard, California Department of Fish and Wildlife (CDFW), Regional Water Quality Control Board (RWQCB) and other project stakeholders on March 23, 2018 to present the results of the Pier E6 to E18 implosions and provide an update to the next phase of the project related the remaining five piers left in the San Francisco Bay (Pier E2 and Piers E19-E22). A summary was given of the pier implosions and clean-up activities. Caltrans presented preliminary hydroacoustic monitoring, fisheries monitoring, marine mammal monitoring, bird monitoring, and water quality monitoring results.

The environmental team, at the request of BATA and the TBPOC, continued to support the planning and regulatory approval of the proposed pier retention and public access enhancements for Piers E2 and Piers E19 to E23 of the SFOBB original east span. The environmental team supported the project team for the January 23, 2018 TBPOC meeting, in which the pier retention concepts were evaluated and where the TBPOC approved moving forward with the proposals. The team also attended meetings with local stakeholders to evaluate design options and negotiate funding and management agreements for the proposed Pier E2 and Piers E19 to E23 public access enhancements. Environmental presented the pier retention concepts to the BCDC staff, commission, and Design Review Board in multiple meetings throughout the 1st quarter of 2018. Meetings were also held with USACE, NMFS, CDFW, and RWQCB to obtain their early acceptance to the concept of retaining the piers, and to map out the process of amending the project's permits. Application packages for regulatory approvals of the proposed project were submitted throughout the first guarter of 2018 with the goal of attaining the required permits in the second guarter of 2018 to allow the public access enhancements to be constructed.



APPENDICES

A. TBSRP AB 144/SB 66/ AB 1175 Baseline Budget, Forecasts and	
Expenditures through March 31, 2018 (A-1 and A-2)	16
B. TBSRP (SFOBB East Span Only) AB 144/SB 66 Baseline Budget, Forecasts and Expenditures through March 31, 2018	20
Glossary of Terms	

Appendix A-1: TBSRP AB 144/SB 66/AB 1175 Baseline Budget, Forecasts and Expenditures Through March 31, 2018, by bridge including program contingency (\$ Millions)

Contract	AB 144/SB 66/AB 1175	Approved Changes	Current Approved Budget (3/2018)	Cost to Date (3/2018)	Cost Forecast (3/2018)	At-Completion Variance
а	C	d	e = c + d	f	g	h = g - e
SFOBB East Span Replacement Project						
Capital Outlay Support	959.3	390.1	1,349.4	1,330.4	1,369.2	19.8
Capital Outlay Construction	4,492.2	685.6	5,177.8	5,043.8	5,193.5	15.7
Other Budgeted Capital	35.1	(34.4)	0.7	0.7	0.7	-
Total	5,486.6	1,041.3	6,527.9	6,374.9	6,563.4	35.5
SFOBB West Approach Replacement						
Capital Outlay Support	120.0	(0.5)	119.5	119.4	119.5	-
Capital Outlay Construction	309.0	31.0	340.0	333.0	333.1	(6.9)
Total	429.0	30.5	459.5	452.4	452.6	(6.9)
SFOBB West Span Retrofit						-
Capital Outlay Support	75.0	(0.2)	74.8	74.8	74.8	-
Capital Outlay Construction	232.9	(2.4)	230.5	230.5	230.5	-
Total	307.9	(2.6)	305.3	305.3	305.3	-
Richmond-San Rafael Bridge Retrofit*						
Capital Outlay Support	134.0	(7.0)	127.0	126.7	126.8	(0.2)
Capital Outlay Construction	780.0	(94.9)	685.1	668.1	668.1	(17.0)
Total	914.0	(101.9)	812.1	794.8	794.9	-
Benicia-Martinez Bridge Retrofit						-
Capital Outlay Support	38.1	-	38.1	38.1	38.1	-
Capital Outlay Construction	139.7	-	139.7	139.7	139.7	-
Total	177.8	-	177.8	177.8	177.8	-
Carquinez Bridge Retrofit						
Capital Outlay Support	28.7	0.1	28.8	28.8	28.8	-
Capital Outlay Construction	85.5	(0.1)	85.4	85.4	85.4	-
Total	114.2	-	114.2	114.2	114.2	
San Mateo-Hayward Bridge Retrofit						-
Capital Outlay Support	28.1	-	28.1	28.1	28.1	-
Capital Outlay Construction	135.4	(0.1)	135.3	135.3	135.3	-
Total	163.5	(0.1)	163.4	163.4	163.4	
Vincent Thomas Bridge Retrofit (Los Angeles)		(-)				
Capital Outlay Support	16.4	-	16.4	16.4	16.4	
Capital Outlay Construction	42.1	-	42.1	42.0	42.1	-
Total	58.5		58.5	58.4	58.5	
San Diego-Coronado Bridge Retrofit						
Capital Outlay Support	33.5		33.5	33.2	33.2	(0.3)
Capital Outlay Construction	70.0	-	70.0	70.0	70.0	(0.0)
Total	103.5		103.5	103.2	103.2	(0.3)
10101	100.0		100.0	100.2	100.2	(0.0)

Appendix A-1: TBSRP AB 144/SB 66/AB 1175 Baseline Budget, Forecasts and Expenditures Cont. Through March 31, 2018, by bridge including program contingency (\$ Millions)

Contract	AB 144/SB 66/AB 1175	Approved Changes	Current Approved Budget (3/2018)	Cost to Date (3/2018)	Cost Forecast (3/2018)	At-Completion Variance
а	C	d	e = c + d	f	g	h = g - e
Antioch Dridge						
Antioch Bridge Capital Outlay Support		24.1	24.1	17.4	24.2	0.1
	-	24.1	24.1	6.7	24.2	0.1
Capital Outlay Support by BATA Capital Outlay Construction		47.0	47.0	47.0	47.0	
Total	267.0	71.1	71.1	71.1	47.0 71.2	- 0.1
Dumbarton Bridge	207.0	11.1	11.1	71.1	11.2	0.1
Capital Outlay Support		47.5	47.5	39.5	47.5	
Capital Outlay Support by BATA	-	47.5	47.5	7.9	47.5	-
Capital Outlay Support by BATA		64.9	64.9	64.4	64.7	(0.2)
Total	483.0	112.4	112.4	111.8	112.2	(0.2)
IOtal	403.0	112.4	112.4	111.0	112.2	(0.2)
Subtotal Capital Outlay Support	1,682.9	204.4	1,887.2	1,867.4	1,906.6	19.4
Subtotal Capital Outlay	6,787.1	230.8	7,017.8	6,859.4	7,009.4	(8.4)
Subtotal Other Budgeted Capital	35.1	(34.4)	0.7	0.7	0.7	-
Miscellaneous Program Costs	30.0	-	30.0	26.0	26.0	(4.0)
Subtotal Toll Bridge Seismic Retrofit Program	8,535.0	400.7	8,935.7	8,753.5	8,942.7	7.0
Net Programmatic Risks**	-	-	-	-	33.4	33.4
Program Contingency	900.0	(883.7)	16.3	-	-	(16.3)
Total Toll Bridge Seismic Retrofit Program***	9,435.0	(483.0)	8,952.0	8,753.5	8,976.0	24.0
Forecast Deficit To Current TBPOC Approved Budget:					24.0	
Forecast Surplus To Total TBSRP Budget	459.0					
Forecast Deficit To Current TBPOC Approved Budget:			24.0			

* Budget for Richmond-San Rafael Bridge includes \$16.9 million of deck joint rehabilitation work that considered to be eligible for seismic retrofit program funding.

** Programmatic Risks: Consists of \$16.46 million in Q1 2018 Program Risk Register costs plus, \$16.9 in Richmond-San Rafael (R/SR) Bridge project contingency used for R/SR deck joint replacement.

*** AB144/SB66 established a funding level of \$8.685 Billion in July 2005 for TBSRP, AB1175 added the retrofitting of the Antioch and Dumbarton Bridges in January 2010, providing another \$750 Budget to \$8.952 billion. The \$483 million removed consisted of: • Antioch Savings (4/12/10) \$137 million

Dumbarton Savings (9/02/10) \$216 million

Program Contingency Redirection (11/05/13) \$130 million.

(Due to the rounding of numbers, the totals above are show within \$0.1)

Appendix A-2: TBSRP AB 144/SB 66 Baseline Budget, Forecasts and Expenditures

Through March 31, 2018, by major contract, without program contingency (\$ Millions)

Bridge	AB 144 Baseline Budget	TBPOC Current Approved Budget	Expenditures to date and encumbrances as of (3/2018) see Note (1)	Estimated costs not yet spent or encumbered as of (3/2018)	Total Forecast as of (3/2018)
а	b	C	d	е	f = d + e
Other Completed Projects					
Capital Outlay Support	144.9	144.9	144.6	-	144.6
Capital Outlay	472.6	472.6	471.9	0.6	472.5
Total	617.5	617.5	616.5	0.6	617.1
Richmond-San Rafael					
Capital Outlay Support	134.0	127.0	126.8	-	126.8
Capital Outlay	698.0	685.1	667.5	0.6	668.1
Project Reserves	82.0	-	-	-	-
Total	914.0	812.1	794.3	0.6	794.9
West Span Retrofit					
Capital Outlay Support	75.0	74.8	74.8	-	74.8
Capital Outlay	232.9	230.5	227.4	3.1	230.5
Total	307.9	305.3	302.2	3.1	305.3
West Approach					
Capital Outlay Support	120.0	119.5	119.5	-	119.5
Capital Outlay	309.0	340.0	332.2	0.9	333.1
Total	429.0	459.5	451.7	0.9	452.6
SFOBB East Span -Skyway					
Capital Outlay Support	197.0	181.2	181.2	-	181.2
Capital Outlay	1,293.0	1,236.1	1,237.3	(1.2)	1,236.1
Total	1,490.0	1,417.3	1,418.5	(1.2)	1,417.3
SFOBB East Span -SAS- Superstructure					
Capital Outlay Support	214.6	506.8	513.9	12.1	526.0
Capital Outlay	1,753.7	2,034.8	2,046.9	(10.0)	2,036.9
Total	1,968.3	2,541.6	2,560.8	2.1	2,562.9
SFOBB East Span -SAS- Tower Anchor Rod Grouting	,		,		,
Capital Outlay Support	-	3.0	2.3	(0.1)	2.2
Capital Outlay	-	8.9	9.2	(0.3)	8.9
Total	-	11.9	11.5	(0.4)	11.1
SFOBB East Span -SAS- Foundations					
Capital Outlay Support	62.5	37.6	37.6	-	37.6
Capital Outlay	339.9	301.3	301.3	-	301.3
Total	402.4	338.9	338.9	_	338.9
Small YBI Projects	702.7	000.0	000.0		000.0
Capital Outlay Support	10.6	10.2	10.2	-	10.2
Capital Outlay	15.6	15.2	15.2	-	15.2
Total	26.2	25.4	25.4		25.4
YBI Detour	20.2	20.4	20.7	_	20.7
Capital Outlay Support	29.5	87.7	87.9	_	87.9
	131.9	473.3	473.3	0.1	473.4
Capital Outlay					
Total	161.4	561.0	561.2	0.1	561.3

Appendix A-2: TBSRP AB 144/SB 66 Baseline Budget, Forecasts and Expenditures Cont.

Through March 31, 2018, by major contract, without program contingency (\$ Millions)

Contract	AB 144 Baseline Budget	TBPOC Current Approved Budget	Expenditures to date and encumbrances as of (3/2018) see Note (1)	Estimated costs not yet spent or encumbered as of (3/2018)	Total Forecast as of (3/2018)
a	b	C	d	е	f = d + e
YBI - Transition Structures					
Capital Outlay Support	78.7	152.4	143.9	9.8	153.7
Capital Outlay	299.4	312.9	318.0	(5.9)	312.1
Total	378.1	465.3	461.9	3.9	465.8
Oakland Touchdown	010.1	100.0	101.0	0.0	100.0
Capital Outlay Support	74.4	118.7	117.5	0.8	118.3
Capital Outlay	283.8	326.4	325.4	1.1	326.5
Total	358.2	445.1	442.9	1.9	444.8
East Span Other Small Projects					
Capital Outlay Support	212.3	197.9	197.9	-	197.9
Capital Outlay	170.8	138.3	138.3	(2.4)	135.9
Total	383.1	336.2	336.2	(2.4)	333.8
Existing Bridge Demolition				(),	
Capital Outlay Support	79.7	53.9	40.0	14.4	54.4
Capital Outlay	239.2	331.3	226.4	121.6	348.0
Total	318.9	385.2	266.4	136.0	402.4
Antioch Bridge					
Capital Outlay Support	-	24.1	17.4	0.1	17.5
Capital Outlay Support by BATA			6.7	-	6.7
Capital Outlay	-	47.0	47.0	-	47.0
Total	267.0	71.1	71.1	0.1	71.2
Dumbarton Bridge					
Capital Outlay Support	-	47.5	39.6	-	39.6
Capital Outlay Support by BATA			7.9	-	7.9
Capital Outlay	-	64.9	64.7	-	64.7
Total	483.0	112.4	112.2	-	112.2
Miscellaneous Program Costs	30.0	30.0	26.0	-	26.0
Total Capital Outlay Support ⁽²⁾	1,712.9	1,917.2	1,895.8	36.9	1,932.7
Total Capital Outlay	6,822.1	7,018.5	6,902.1	107.9	7,010.0
Program Total	8,535.0	8,935.7	8,797.9	144.8	8,942.7

Total Capital Outlay Support includes program indirect costs.
 BSA provided a distribution of program contingency in December 2004 based on Bechtel Infrastructure Corporation input.
 Construction administration of the OTD Detour is under the YBITS1 contract. Encumbrance is included in YBITS1 contract.
 Construction administration of the cantilever segment is under the YBITS2 contract. Encumbrance is included in YBITS2 contract.
 Construction administration of the cantilever segment is under the YBITS2 contract. Encumbrance is included in YBITS2 contract.
 Council to the rounding of numbers, the totals above are shown within \$0.1)

Through March 31, 2018 (\$ Millions)

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (3/2018)	Cost to Date (3/2018)	Cost Forecast (3/2018)	At- Completion Variance
а	С	d	e = c + d	f	g	h = g - e
San Francisco-Oakland Bay Bridge East Span Replacement Proj	ect					
East Span - SAS Superstructure	014.0	000.0	500.0	540.0	500.0	10.0
Capital Outlay Support	214.6	292.2	506.8	513.2	526.0	19.2
Capital Outlay Construction	1,753.7	281.1	2,034.8	1,973.4	2,036.9	2.1
Total	1,968.3	573.3	2,541.6	2,486.6	2,562.9	21.3
SAS Tower Anchor Rod Grouting		2.0	2.0	0.4	0.0	(0, 0)
Capital Outlay Support	-	3.0	3.0	2.1	2.2	(0.8)
Capital Outlay Construction	-	8.9	8.9	8.7	8.9	-
Total	-	11.9	11.9	10.8	11.1	(0.8)
SAS W2 Foundations	10.0	(0, 0)	0.0	0.0	0.0	
Capital Outlay Support	10.0	(0.8)	9.2	9.2	9.2	-
Capital Outlay Construction	26.4	0.1	26.5	26.5	26.5	-
Total	36.4	(0.7)	35.7	35.7	35.7	-
YBI South/South Detour	29.4	E0 0	07 7	97.0	07.0	0.2
Capital Outlay Support	29.4 131.9	58.3 341.4	87.7 473.3	87.9 473.4	87.9 473.4	0.2
Capital Outlay Construction						
Total	161.3	399.7	561.0	561.3	561.3	0.3
East Span - Skyway	107.0	(15.0)	101.0	101.0	101.0	
Capital Outlay Support	197.0	(15.8)	181.2	181.2	181.2	-
Capital Outlay Construction	1,293.0	(56.9)	1,236.1	1,235.6	1,236.1	-
Total	1,490.0	(72.7)	1,417.3	1,416.8	1,417.3	-
East Span - SAS E2/T1 Foundations	F0 F	(04.4)	00.4	00.4	00.4	-
Capital Outlay Support	52.5	(24.1)	28.4	28.4	28.4	-
Capital Outlay Construction	313.5	(38.7)	274.8	274.8	274.8	-
Total	366.0	(62.8)	303.2	303.2	303.2	-
YBI Transition Structures (see notes below)	70.7	70.7	450.4	142.0	450.7	1.0
Capital Outlay Support	78.7	73.7	152.4	143.9	153.7	1.3
Capital Outlay Construction	299.3	13.6	312.9	310.4	312.1	(0.8)
Total	378.0	87.3	465.3	454.3	465.8	0.5
* YBI - Transition Structures			10.4	10.4	10.4	
Sunk Cost			16.4	16.4	16.4	-
Cost Outlay Support BATA (Southgate Road)			6.4	0.9	6.4	-
Total			22.8	17.3	22.8	-
* YBI - Transition Structures Contract No. 1			70.4	74.4	74.4	(1.0)
Capital Outlay Support			72.1	71.1	71.1	(1.0)
Capital Outlay Construction			203.7	203.2	203.8	0.1
Total			275.8	274.3	274.9	(0.9)
* YBI - Transition Structures Contract No. 2			EC E	EE 0	E0 0	0.0
Capital Outlay Support			56.5	55.2	58.8	2.3
Capital Outlay Construction			109.2	107.2	108.3	(0.8)
Total			165.7	162.4	167.1	1.5
* YBI - Transition Structures Contract No. 3 Landscape			4.0	0.2	4.0	
Capital Outlay Support			1.0	0.3	1.0	-
Capital Outlay Construction			-	-	- 4.0	-
Total			1.0	-	1.0	-

Through March 31, 2018 (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (3/2018)	Cost to Date (3/2018)	Cost Forecast (3/2018)	At- Completion Variance
a	С	d	e = c + d	f	g	h = g - e
Oakland Touchdown (see notes below)	74.4	44.0	440 7	110.0	440.0	(0, 1)
Capital Outlay Support	74.4	44.3	118.7	118.2	118.3	(0.4)
Capital Outlay Construction	283.8	42.6	326.4	326.5	326.5	0.1
Total	358.2	86.9	445.1	444.7	444.8	(0.3)
* OTD Prior-to-Split Costs			00.4	00.0	00.0	(0.4)
Capital Outlay Support			20.1	20.0	20.0	(0.1)
Capital Outlay Construction			-	-	-	-
Total			20.1	20.0	20.0	(0.1)
* OTD Submarine Cable(1)			0.0		0.0	
Capital Outlay Support			0.9	0.9	0.9	-
Capital Outlay Construction			5.7	5.7	5.7	-
Total			6.6	6.6	6.6	-
* OTD No. 1 (Westbound)			54.0	54.0	54.0	
Capital Outlay Support			51.2	51.2	51.2	-
Capital Outlay Construction			202.8	202.8	202.8	-
Total			254.0	254.0	254.0	-
* OTD No. 2 (Eastbound)			07.0	07.4	07.4	
Capital Outlay Support			37.6	37.4	37.4	(0.2)
Capital Outlay Construction			71.2	71.2	71.2	-
Total			108.8	108.6	108.6	(0.2)
* OTD Touchdown 2 Detour ⁽²⁾			0.4	0.0	0.0	(0.4)
Capital Outlay Support			8.1	8.0	8.0	(0.1)
Capital Outlay Construction			46.7	46.7	46.7	-
Total			54.8	54.7	54.7	(0.1)
* OTD Electrical Systems			0.0	0.0	0.0	
Capital Outlay Support			0.8	0.8	0.8	-
Capital Outlay Construction			-	-	-	-
Total			0.8	0.8	0.8	-
Existing Bridge Dismantling	70.7	(05.0)	52.0	20.2	EA 4	0.5
Capital Outlay Support	79.7	(25.8)	53.9	38.3	54.4	0.5
Capital Outlay Construction	239.2	92.1	331.3	273.1	348.0	16.7
Total	318.9	66.3	385.2	311.4	402.4	17.2
* Bridge Dismantling Prior-to-Split Cost			2.0	2.0	2.0	
Capital Outlay Support			3.9	3.9	3.9	-
Capital Outlay Construction			-	-	-	-
Total			3.9	3.9	3.9	-
* Cantilever Section			1.0	1.0	1.0	
Capital Outlay Support			1.6	1.6	1.6	-
Capital Outlay Construction			69.0	68.5	69.0	-
Total			70.6	70.1	70.6	-
* 504/288 Sections			44.0	0.0	40 F	
Capital Outlay Support			11.0	9.9	10.5	(0.5)
Capital Outlay Construction			81.8	78.2	81.8	-
Total			92.8	88.1	92.3	(0.5)

Through March 31, 2018 (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (3/2018)	Cost to Date (3/2018)	Cost Forecast (3/2018)	At- Completion Variance
а	С	d	e = c + d	f	g	h = g - e
*Marine Foundations						
Capital Outlay Support			37.4	23.0	38.5	1.1
Capital Outlay Construction			180.5	126.4	197.2	16.7
Total			217.9	149.4	235.7	17.8
Sunk Cost for Marine Foundation			5.8	5.8	5.8	-
Pier-3 Demonstration Project						
Capital Outlay Support			4.0	4.0	4.0	-
Capital Outlay Construction			16.8	16.8	16.8	-
Total			20.8	20.8	20.8	-
Remaining Marine Foundations ²						
Capital Outlay Support			27.6	13.2	28.4	0.8
Capital Outlay Construction			163.7	109.6	180.3	16.6
Total			191.3	122.8	208.7	17.4
Pier-E4 to Pier-E18						
Capital Outlay Support			12.0	10.9	11.8	(0.2)
Capital Outlay Construction			111.7	109.5	111.7	-
Total			123.7	120.4	123.5	(0.2)
Pier-E2 and Pier-E19 to Pier-E22						. ,
Capital Outlay Support			15.6	2.3	16.6	1.0
Capital Outlay Construction			52.0	-	68.6	16.6
Total			67.6	2.3	85.2	17.6
YBI/SAS Archeology						
Capital Outlay Support	1.1	-	1.1	1.1	1.1	-
Capital Outlay Construction	1.1	-	1.1	1.1	1.1	-
Total	2.2	-	2.2	2.2	2.2	-
YBI - USCG Road Relocation						
Capital Outlay Support	3.0	(0.3)	2.7	2.7	2.7	-
Capital Outlay Construction	3.0	(0.2)	2.8	2.8	2.8	-
Total	6.0	(0.5)	5.5	5.5	5.5	
YBI - Substation and Viaduct	0.0	(0.0)	0.0	0.0	0.0	
Capital Outlay Support	6.5	(0.1)	6.4	6.4	6.4	
Capital Outlay Construction	11.6	(0.3)	11.3	11.3	11.3	-
Total	18.1	(0.4)	17.7	17.7	17.7	
Oakland Geofill	10.11	(0.1)				-
Capital Outlay Support	2.5		2.5	2.5	2.5	
Capital Outlay Construction	8.2		8.2	8.2	8.2	-
Total	10.7	-	10.7	10.7	10.7	
Pile Installation Demonstration Project	10.7		10.7	10.7	10.7	
Capital Outlay Support	1.8	_	1.8	1.8	1.8	_
Capital Outlay Support	9.3	(0.1)	9.2	9.3	9.3	-
Total	11.1	(0.1)	11.0	11.1	11.1	-
ισιαι	11.1	(0.1)	11.0	11.1	11.1	-

Through March 31, 2018 (\$ Millions) Cont.

Contract	AB 144 / SB 66 Budget (07/2005)	Approved Changes	Current Approved Budget (3/2018)	Cost to Date (3/2018)	Cost Forecast (3/2018)	At- Completion Variance
а	С	d	e = c + d	f	g	h = g - e
Stormwater Treatment Measures						
Capital Outlay Support	6.0	2.2	8.2	8.2	8.2	-
Capital Outlay Construction	15.0	1.9	16.9	16.9	16.9	-
Total	21.0	4.1	25.1	25.1	25.1	-
Right-of-Way and Environmental Mitigation						
Capital Outlay Support	-	-	-	-	-	-
Capital Outlay & Right-of-Way	72.4	-	72.4	61.1	70.0	(2.4)
Total	72.4	-	72.4	61.1	70.0	(2.4)
Sunk Cost - Existing East Span Retrofit						
Capital Outlay Support	39.5	-	39.5	39.5	39.5	-
Capital Outlay Construction	30.8	-	30.8	30.8	30.8	-
Total	70.3	-	70.3	70.3	70.3	-
Other Capital Outlay Support						
Environmental Phase	97.7	0.1	97.8	97.8	97.8	-
Pre-Split Project Expenditures	44.9	-	44.9	44.9	44.9	-
Non-Project Specific Costs	20.0	(16.8)	3.2	3.2	3.2	-
Total	162.6	(16.7)	145.9	145.9	145.9	
Subtotal Capital Outlay Support	959.3	390.1	1,349.4	1,330.4	1,369.2	19.8
Subtotal Capital Outlay Construction	4,492.2	685.6	5,177.8	5,043.8	5,193.5	15.7
Other Budgeted Capital	35.1	(34.4)	0.7	0.7	0.7	-
		× /				
Total SFOBB East Span Replacement Project	5,486.6	1,041.3	6,527.9	6,374.9	6,563.4	35.5

⁽¹⁾ Current contract allotment to install two submarine electrical cables is \$5.7 million. Additional non-program funding to support this allocation beyond the \$9.6 million of available programs funds has been made available by the Treasure Island Development Authority. ⁽²⁾ Construction administration of the OTD Detour is under the YBITS#1 contract.

⁽³⁾ Construction administration of the Cantilever segment is under the YBITS#2 contract.

(Due to the rounding of numbers, the totals above are shown within \$0.1).



Glossary of Terms

AB 144/SB 66 BUDGET: The planned allocation of resources for the Toll Bridge Seismic Retrofit Program, or subordinate projects or contracts, as provided in Assembly Bill 144 and Senate Bill 66, signed into law by Governor Schwarzenegger on July 18, 2005, and September 29, 2005, respectively.

AB 144/SB 66/AB1175 PROJECT COMPLETE BASELINE: The planned completion date for the Toll Bridge Seismic Retrofit Program or subordinate projects or contracts.

APPROVED CHANGES: For cost, changes to the AB 144/SB 66 Budget or BATA Budget as approved by the Bay Area Toll Authority Commission. For schedule, changes to the AB 144/SB 66 Project Complete Baseline approved by the Toll Bridge Program Oversight Committee, or changes to the BATA Project Complete Baseline approved by the Bay Area Toll Authority Commission.

AT COMPLETION VARIANCE or VARIANCE (cost): The mathematical difference between the Cost Forecast and the Current Approved Budget.

BATA PROJECT COMPLETE BASELINE: The planned completion date for the Regional Measure 1 Program or subordinate projects or contracts.

CAPITAL OUTLAY SUPPORT (COS): Cost of developing and administering a capital project.

COST FORECAST: The current forecast of all of the costs that are projected to be expended so as to complete the given scope of the program, project, or contract.

COST TO DATE: The actual expenditures incurred by the program, project or contract as of the month and year shown.

CURRENT APPROVED BUDGET: The sum of the AB 144/SB 66 Budget or BATA Budget and Approved Changes.

HINGE PIPE BEAMS: Pipes between roadway sections designed to move within their sleeves during expansion or contraction of the decks during minor events, such as changes in temperature. The beams are designed to absorb the energy of an earthquake by deforming in their middle or "fuse" section. Hinge pipe beams are also found at the western piers where the SAS connects to the YBITS (Hinge "K" pipe beams).

PROJECT COMPLETE CURRENT APPROVED SCHEDULE: The sum of the AB 144/SB 66 Project Complete Baseline or BATA Project Complete Baseline and Approved Changes.

PROJECT COMPLETE SCHEDULE FORECAST: The current projected date for the completion of the program, project, or contract.

SCHEDULE VARIANCE or VARIANCE (schedule): The mathematical difference expressed in months between the Project Complete Schedule Forecast and the Project Complete Current Approved Schedule.

% COMPLETE: % Complete is based on an evaluation of progress on the project, expenditures to date, and schedule.



The information in this report is provided in accordance with California Government code Section 755. This document is one of a series of reports prepared for the Bay Area Toll Authority (BATA)/Metropolitan Transportation Commission (MTC) on the Toll Bridge Seismic Retrofit and Regional Measure 1 Programs.

