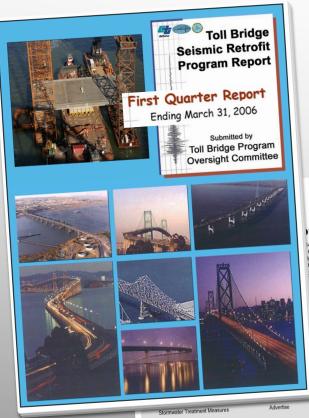




### Tale of Two Projects: Pre-TBPOC

Year	Measure	Est. Program Cost (\$ millions)
1996	<b>Proposition 192</b>	\$650
1997	SB 60 (Kopp)	\$2,620
2001	AB 1171 (Dutra)	\$5,085
2005	AB 144 (Hancock)	\$8,685



### **TBPOC Keyed On-Time and On-Budget Delivery**

2006 First Quarter Report - Toll Bridge Seismic Retrofit Program

#### Table 3-Toll Bridge Seismic Retrofit Program—Schedule Summary

							Table 3-Toll Bridge Seismic Retrofit Program—					-Sche	-Schedule Summary			
	r First O	uarter Repor	t – Toll Brid	dge Seismic	: Retrofit Pro	ogram	Project	AB 144 / SB 66 Project Complete Baseline (07/2005)	Approved Changes (Months)	Project Complete Current Approved Schedule (03/2006)	Project Complete Schedule Forecast (03/2006)	Schedule Variance (Months)	Schedule Status	Remarks		
200	)6 First Q	uarter repor					a	b	С	d= b + c	e	f = e - d	g	h		
44 <i>l</i> 66	rogra	m—Cos	Actual Cost To	Quarter 2006	SMillio	ns)	SFOBE East Span Replacement Project Skyway  SAS E2/T1 Foundations	Apr 07  Jun 08	(3)	Apr 07	Apr 07	٠	•	A schedule extension due to hinge pipe beam flabrication, service platforms electrical appurenances, polyester concrete, etc., is currently under evaluation and subject to negotiations with the contractor. Forecast completion date is TBD.		
	Changes	(03/2006)	(03/2006)	Forecast	h = g - e	i	SAS Superstructure	Mar 12	12	Mar 13	Mar 13			Bids were opened on March 22, 2006.		
	d	e = c + d	1	9	n-9 -		or to superstructure			mai 10			•	Contract award expected by April 18, 2006.		
959.4		959.4	418.9 999.9	977.1	17.7	•	YBI Transition Structures	Nov 13	12	Nov 14	Nov 14	350	•	In March 2006, the TBPOC approved the split of the YBI contract into three contracts. Schedules and estimates for		
293.0		1,293.0	555.0	1,767.4	13.7	•	Oakland Touchdown (OTD)	Nov 13	12	Nov 14	Nov 14		•	the split contracts are being developed.		
753.7		1,753.7	100.6	313.5		•	OTD Submarine Cable	n/a		Jul 07	Oct 07	3	•	Advertise date postponed pending		
313.5		299.3		318.5	19.2	•								execution of cooperative agreement with City of San Francisco.		
299.3		283.8		272.7	(11.1)	•	OTD Westbound	n/a		Jul 09	Oct 09	3	•	Advertise date postponed to provide		
783.8		. 131.9	32.3	133.7	1.8	•								additional time for utility coordination and contract formation.		
131.9		. 131.0			(17.2)		OTD Eastbound	n/a		Nov 14	Nov 14		•			
139.2		_ 239.2		45.0		- :	YBI South/South Detour	Jul 07		Jul 07	Jul 07	-	•	Schedule is being assessed. Forecast		
15.0		_ 15.0												completion date is TBD.		
90.3		_ 90.3					Existing Bridge Demolition	Sep 14	12	Sep 15	Sep 15	-	•			
72.4		. 72.4		. 11.		)	Stormwater Treatment Measures	Mar 08		Mar 08	May 07	(10)	•	Forecast based on actual award date		
35.1		E 406		5 5,486	.6									and duration in contractor's A+B bid.		
5,486.6		_ 5,400.				•	Open to Traffic Date: West Bound	Sep 11	12	Sep 12	Sep 12		•			
120.0		. 120	.0 74	1.9 120	0.0		Open to Traffic Date: East Bound	Sep 12	12	Sep 1	3 13					
309.0		. 309							,	-						
429.0	)	- 429	9.0 260	0.9 429	9.0		SFOBB West Approach Replacement	Aug 09	*	Aug 09	Aug 09	•	•			
				. 0 12	7.0 (7	0)	Richmond-San Rafael Bridge									
134.	0		4.0 124 n.n 66		18.0 (82		Seismic Retrofit	Aug 05		Aug 05	Oct 05	2	•	Seismic retrofit completed July 29, 2005.		
780.			0.0		25.0 (89	.0)								Formal acceptance of this contract on October 28, 2005.		
914.	.0		4.0				Public Access Project	n/a	-	Dec 06	May 07	5	•			
219	1.8	- 2	10.0	10.6	19.8	-										
705			00.0		05.6					9 of	5.52					
925	5.4		2011	11.0	30.0	-		_	_	9 01		_	_			
	0.0			20.0												
	0.0		900.0 885.0 3,6	671.9	8.685	0.0										
8,68	5.0	- 0,0	-,-													

Total Toll Bridge Seismic Retrofit Program Within Approved Schedule and Budget

East Span Completed Projects Right-of-Way and Environmental Mitigation Other Budgeted Capital Total SFOBB East Span Replacement Project SFOBB West Approach Replacement Capital Outlay Support Capital Outlay Construction Total SFOBB West Approach Replacement

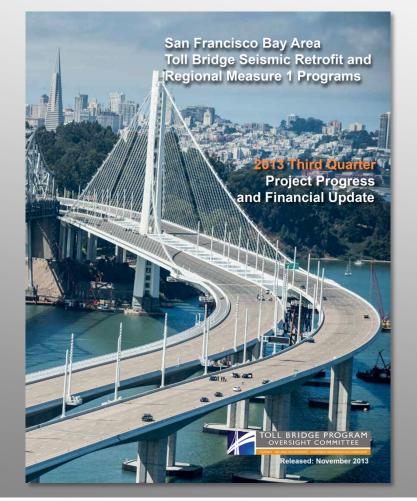
Richmond-San Rafael Bridge Retrofit Capital Outlay Support Capital Outlay Construction Total Richmond-San Rafael Bridge Retrofit **Program Completed Projects** Capital Outlay Support Capital Outlay Construction **Total Program Completed Projects** Miscellaneous Program Costs **Program Contingency** 

 Potential Cost and Schedule Impacts: Possible future need for Program Contingency Allocation Known Cost and Schedule Impacts: Request for Program Contingency Allocation forthcoming

Construction

Note: Details may not sum to totals due to rounding effects.

### **TBPOC Keyed On-Time** and On-Budget Delivery



_		Contrac	ogra	am Cos	st Sumr	narv (N	Million	-1			
Toll Bridge Seis				Budget September 2005)	Onlanges	Curre TBPO Approvi Budge (Septemb 2013)	ed t	S) Cost to Date (September 2013)	Current Co Forecas ( Septemb 2013)	t Varia	Cost S
SFOBB East Span Seismi Capital Outlay Construction	c Replaceme	nt		a	b	c = a +	b	d			
Skyway Construction								<u> </u>	е	f = e - c	
SAS Marine Foundations	C	ompleted		1,293.0							
SAS Superstructure		ompleted			(55.8)	1,237	.2	1,237.3			
YBI Detour		nstruction		313.5	(38.7)	274	.8		1,237.2	2 -	
		mpleted		1,753.7	293.1	2,046.		274.8	278.6	3.8	
YBI Transition Structures (YBI	TS)	Piotog		131.9	334.2	466.1		1,864.0	2,082.8		
YBITS 1	Con	npleted		299.3	0.1	299.4		466.1	473.3	7.2	•
YBITS 2 Cantilever Dismant	li-					203.7		212.1	323.7	24.3	•
TBITS Landscaping		arded						200.1	210.6		•
Oakland Touchdown (OTD)	De	sign				92.4		12.0	109.8	6.9	•
OTD 1			2	283.8	35.9	3.3			3.3	17.4	•
OTD 2	Comp	leted			00,3	319.7		267.6			•
Detour	Constru	ction				205.0		204.8	331.4	11.7	•
OTD Electrical Systems	Comple	eted				62.0		29.4	203.3	(1.7)	•
Submers 15	Construc	tion				47.0		27.7	73.6	11.6	•
Submerged Electric Cable	Comple							21.1	44.9	(2.1)	•
Existing Bridge Dismantling	Design					5.7					
*Cantilever Section	Awarde		239	2 (0.	.1)	239.1		5.7	9.6	3.9	
*504/288 Sections		1							241.0	1.9	•
*Marine Foundations	Design					61.6		-	60.6	1.9	•
Stormwater Treatment Measures	Design								88.4		•
Other Completed Contracts	Completed		15.0	3.3	,	-			92.0	•	
Capital Outlay Support	Completed		90.4			18.3	16.9	)		•	
Right-of-Way and Environmental Mitigation			959.3	(0.5)		89.9	90.0		7.0	(1.3)	
Other Budgeted Capital			724	262.3	1,2	21.6	1,172.3	9	0.5	0.6	
Total SEORR F				-	7	72.4	51.7	1,30	1.7	80.1	- 1
Total SFOBB East Span Replacement			35.1	(32.8)		2.3		80	).4	8.0	- 8
Bridge Seismic Retrofit		5,4	86.6	801.0	6,287		0.7	7.	7	5.4	- 1
Capital Outlay Construction and Mitigation	Completed						5,653.5	6,465.	3 1	177.7	81
Support Support	ompieted			51.0	51.	0					- 11
Total Antioch Bridge Seismic Retrofit				31.0	31.		47.0	50.3		0.7	
Dumbarton Bridge Seismic Retroft			-	82.0	31,	U	23.6	23.8		(0.7)	-
Capital Outlay Construction and Maria	Ca				82	2.0	70.6	74.4		7.2)	
Support	Completed			92.7				74.1	(/	(.9)	
Total Dumbarton Bridge Seismin Bata S				56.0	92.7		63.6	68.2			
Ther Program Projects				148.7	56.0		43.8	46.0	(24.		
iscellaneous Program Coets		2,268.4		(63.6)	148.	7 1	07.4	114.2	(10.0	_	
et Programmatic Risks		30.0		(0.0)	2,204.8	2,16	64.3	2,192.5	(34.5	•	
ogram Contingency		-			30.0		5.5		(12.3)	)	
tal Toll Bridge C.		900.0	/25					30.0		•	
ogram <sup>2</sup> Seismic Retrofit			(571	1.1)	328.9			36,4	36.4	•	
		8,685.0	39	7.0	9,082.0			169.5	(159.4)	•	
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8,021.	3	9,082.0			



# Why does the new East Span cost so much more than the old one?

1. Detours and Demolition (\$	S millions)
YBI Detour	\$473
OTD Detour	45
Old Span Demolition	241
Subtotal	\$759

2. COS Comparison	
1936 East Span (@20%)	\$ 100
2013 East Span (@20%)	1,302
DELTA	\$1,202





## Why does the new East Span cost so much more than the old one?

#### 3. Width Comparison (\$ millions)

 New east span is 50% wider than 1936 bridge, with addition of 4 traffic shoulders and the bike/pedestrian path

New east span net capital cost (Less previous items 1 & 2)	\$ 4,504
X 50%	\$ 2,252

4. Political Delays						
Design (3% net cost x 2 years)	\$270					
Construction (x1 year)	135					
Subtotal	\$405					





# Why does the new East Span cost so much more than the old one?

5. Grand Total	(\$ millions)
1936 East Span Escalated Cost	\$ 500
2013 East Span Projected Cost	6,465
DELTA	5,965
Less Items 1-4	4,618
1. Detours and Demolition	
2. Higher COS Costs	
3. Increased Width	
4. Political Delays	
Revised DELTA	\$1,347

#### **Outcomes not Monetized**

- Superior Seismic Performance
- Superior Architectural Design
- 150 vs. 75 year Lifespan
- Bicycle/Pedestrian Access
- 0 vs. 24 Construction Fatalities



### For more information:

http://bata.mtc.ca.gov/reports.htm

