

Metropolitan Transportation Commission Programming and Allocations Committee

July 11, 2018

Agenda Item 2f

MTC Resolution No. 4250, Revised

Subject: Allocation of \$2.3 million in Regional Measure 2 (RM2) funds to MTC for the Bay Bridge Forward suite of projects.

Background: In July 2016, the Commission approved the One Bay Area Grant (OBAG 2) framework. This framework includes \$40 million for Bay Bridge Forward (BBF), a suite of projects that aims to increase person throughput within the Bay Bridge corridor. Of the \$40 million, \$21 million comes from RM2 funds. This month, MTC's BBF team requests allocations to three sub-elements of the BBF program, summarized in the table below.

Table 1: July Allocation Summary

BBF Sub-Element	Previous RM2 Allocations	Current (July) RM2 Request	Total RM2 Allocations
West Grand HOV/ Bus-Only Lane	\$3,180,000	\$ 700,000	\$3,880,000
CHP Enforcement Pilot	\$ 830,000	\$ 310,000	\$1,140,000
BBF Environmental and Study Phases*	\$2,902,000	\$1,250,000	\$4,152,000
Total	\$6,912,000	\$2,260,000	\$9,172,000

* Does not include West Grand HOV/Bus-Only Lane, or CHP Enforcement Pilot, which are both listed individually. See Table 2 for a breakdown of this line item.

West Grand HOV/Bus-Only Lane

One element of the Bay Bridge Forward suite of projects is the West Grand HOV/Bus-Only Lane project in Oakland. The project is intended to increase Transbay person throughput by providing access and operational improvements for transit buses and eligible carpools through the conversion of approximately 1,300 feet of the right shoulder on the West Grand Avenue on-ramp and northbound I-880 connector to a bus lane. The new bus lane will be open to transit vehicles 24 hours per day, seven days per week, and open to all other HOVs during carpool hours only. The project would also enhance traffic operations by restriping a portion of the I-880 approach to the toll plaza, and converting an existing cash lane to a FasTrak-only lane.

MTC allocated \$2.5 million in RM2 funds for construction of the project in December 2017. Due to higher-than-anticipated bids, MTC requests an additional allocation of \$700,000. Further discussion of this increase is included under the "Issues" section below. Construction is expected to begin later this summer.

CHP Enforcement Pilot

MTC has allocated \$830,000 to-date to study the effect of CHP enforcement of occupancy requirements for special Bay Bridge ramps. The BBF team requests an additional \$310,000 in RM2 funds to augment enforcement demonstration (including studying the effect of additional officers and longer enforcement

times, in combination with a pilot of extended HOV hours) and to account for increased CHP billing rates. The study should be concluded in Spring 2019, with the study results available in Summer 2019.

Additional Environmental Requests

MTC has allocated \$2.9 million to-date to prepare environmental and planning studies on the various BBF suite of projects (not including the West Grand or CHP Enforcement Pilot described above). The BBF team requests an additional \$1.3 million for environmental and planning to complete further analysis on various projects, including the West Grand HOV/Bus-Only Lane Extension (Phase 2), Vehicle Occupancy Detection, outreach for HOV Hours Pilot and Casual Carpool serving I-80 in Solano County, and Intelligent Transportation Systems integrating the Bay Bridge metering lights with highways serving the bridge approach (I-80, I-580, and I-880). A summary of the anticipated funding split among the sub-elements is listed in Table 2.

Table 2: Environmental/Planning Allocation Summary

BBF Sub-Element	Previous RM2 Allocations	Current (July) RM2 Request	Total RM2 Allocations
West Grand HOV/Bus-Only Lane	<i>See Table 1</i>		
CHP Enforcement Pilot	<i>See Table 1</i>		
Sterling Street HOV Projects	\$750,000	\$650,000	\$1,400,000
Casual Carpool	\$250,000	\$100,000	\$350,000
Integrated Bridge Corridor (ITS Elements)	\$250,000	\$500,000	\$750,000
Commuter Parking	\$652,000		\$652,000
Flexible On-Demand Transit	\$1,000,000		\$1,000,000
Total	\$2,902,000	\$1,250,000	\$4,152,000

Issues:

West Grand HOV/Bus-Only Lane Cost Increase

MTC advertised the project earlier this spring, and the lowest bid exceeded the engineer’s cost estimate by almost \$600,000. In order to award the contract, staff allocated \$120,000 in additional construction funds under the Executive Director’s delegated authority in June. MTC requests allocation of an additional \$700,000 this month to replenish and increase the project contingency, reflect increased construction management fees, and additional design services during construction.

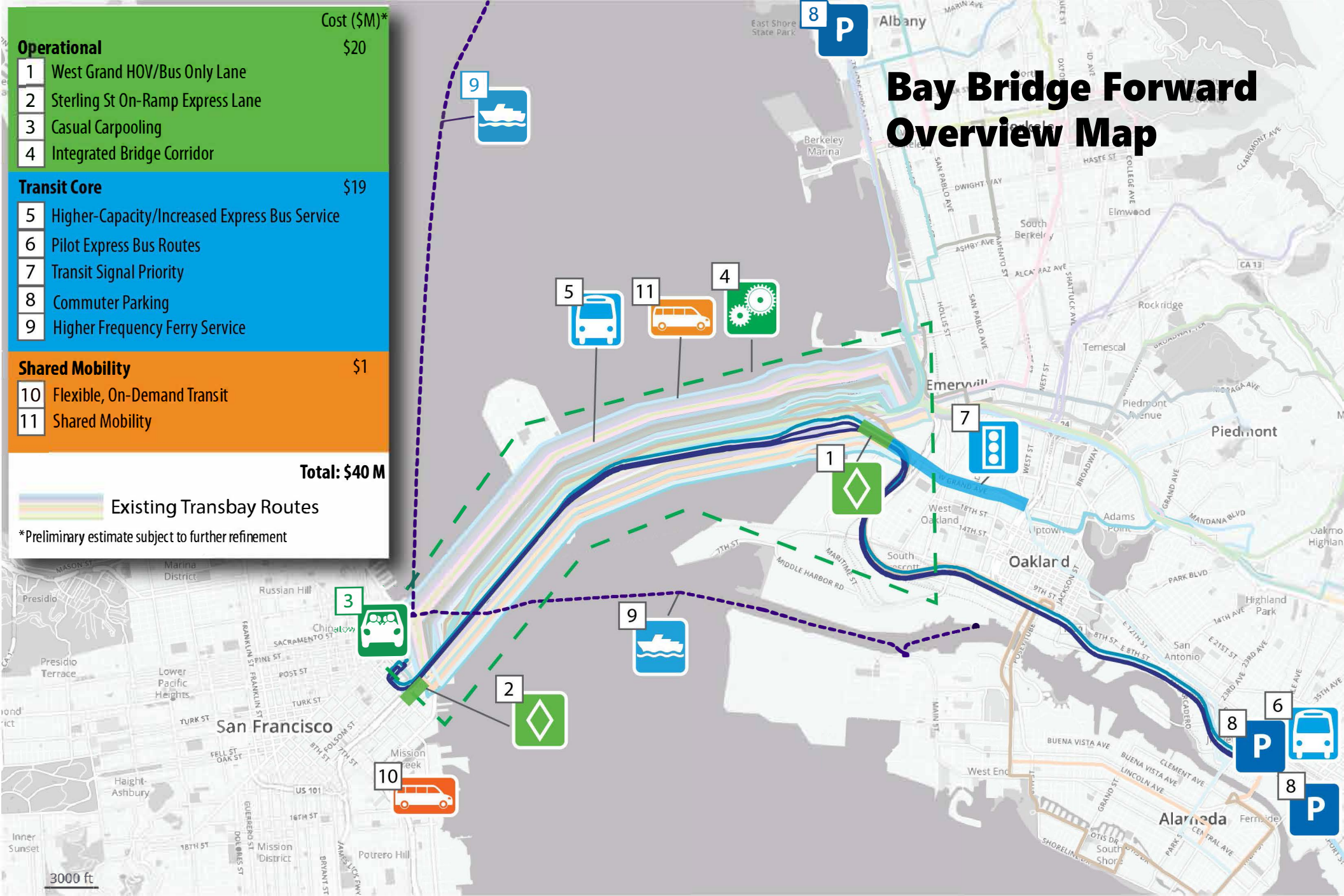
Recommendation: Refer MTC Resolution No. 4250, Revised, to the Commission for approval.

Attachments: Maps of Bay Bridge Forward Projects and West Grand HOV/Bus-Only Lane
 MTC Resolution No. 4250, Revised

Bay Bridge Forward Overview Map

Operational		Cost (\$M)*
1	West Grand HOV/Bus Only Lane	\$20
2	Sterling St On-Ramp Express Lane	
3	Casual Carpooling	
4	Integrated Bridge Corridor	
Transit Core		\$19
5	Higher-Capacity/Increased Express Bus Service	\$1
6	Pilot Express Bus Routes	
7	Transit Signal Priority	
8	Commuter Parking	
9	Higher Frequency Ferry Service	
Shared Mobility		Total: \$40 M
10	Flexible, On-Demand Transit	Existing Transbay Routes
11	Shared Mobility	

*Preliminary estimate subject to further refinement



Bay Bridge Forward: West Grand HOV/Bus-Only Lane Scope

WEST GRAND AVENUE ON-RAMP IMPROVEMENT - BUS LANE PROJECT PROJECT LOCATION MAP



Date: December 21, 2016
W.I.: 1255
Referred by: PAC
Revised: 05/24/17-DA 06/28/17-C
12/20/17-C 02/28/18-DA
06/27/18-DA 07/25/18-C

ABSTRACT

MTC Resolution No. 4250, Revised

This resolution approves the allocation of Regional Measure 2 funds for the Bay Bridge Forward project, an element of the Regional Express Bus South program, sponsored by AC Transit, Alameda County Transportation Commission, the Dumbarton Bridge Regional Operations Consortium member agencies, and the Metropolitan Transportation Commission.

This resolution includes the following attachments:

- Attachment A - Allocation Summary Sheet
- Attachment B - Project Specific Conditions for Allocation Approval
- Attachment C - MTC staff's review of the Initial Project Report (IPR) for this project
- Attachment D - RM2 Deliverable/Useable Segment Cash Flow Plan

This resolution allocates \$2.3 million in RM2 funds to the planning, environmental, and preliminary engineering phases of the Bay Bridge Forward project.

This resolution was amended via delegated authority on May 24, 2017 to allocate \$730,000 in RM2 funds for the study of High-Occupancy Vehicle Enforcement Pilot, and to allocate \$200,000 in RM2 funds for the final design of the West Grand HOV/Bus Only Lane project. Both are part of the Bay Bridge Forward program.

This resolution was amended via Commission Action on June 28, 2017 to allocate \$750,000 in RM2 funds for the Flexible Transit Pilot, part of the Bay Bridge Forward program.

This resolution was amended via Commission Action on December 20, 2017 to allocate \$2.5 million in RM2 funds for the construction of the West Grand HOV/Bus-Only Lane (Phase 1), and \$168,000 for the final design phase of the Commuter Parking project, both part of the Bay Bridge Forward program. Allocation for the commuter parking project is conditioned on approval of the environmental document, expected in early December.

This resolution was amended via delegated authority on February 28, 2018 to allocate \$417,000 in RM2 funds for the final design of the Commuter Parking project, \$200,000 for the study of Vehicle Occupancy Detection pilot, and \$100,000 for the study of High-Occupancy Vehicle Enforcement pilot, all of which are part of the Bay Bridge Forward program.

This resolution was amended via delegated authority on June 27, 2018 to allocate \$880,000 in RM2 funds for the construction of the Commuter Parking project, and \$120,000 in additional RM2 funds for the construction of the West Grand HOV/Bus-Only Lane (Phase 1) project, both part of the Bay Bridge Forward program.

This resolution was amended via Commission action on July 25, 2018 to allocate \$700,000 in additional RM2 funds for the construction of the West Grand HOV/Bus-Only Lane (Phase 1) project, \$310,000 for the study phase of the CHP Enforcement Pilot, and \$1,250,000 for the environmental and project study phases of various Bay Bridge Forward projects, all of which are part of the Bay Bridge Forward program.

Additional discussion of this allocation is contained in the Executive Director's memorandum to the MTC Programming and Allocations Committee dated December 14, 2016, June 14, 2017, December 13, 2017, and July 11, 2018.

Date: December 21, 2016
W.I.: 1255
Referred by: PAC

Re: Approval of Allocation of Regional Measure 2 Funds for the Bay Bridge Forward Project

METROPOLITAN TRANSPORTATION COMMISSION
RESOLUTION No. 4250

WHEREAS, pursuant to Government Code Section 66500 *et seq.*, the Metropolitan Transportation Commission (“MTC”) is the regional transportation planning agency for the San Francisco Bay Area; and

WHEREAS, Streets and Highways Code Sections 30950 *et seq.* created the Bay Area Toll Authority (“BATA”) which is a public instrumentality governed by the same board as that governing MTC; and

WHEREAS, on March 2, 2004, voters approved Regional Measure 2, increasing the toll for all vehicles on the seven state-owned toll bridges in the San Francisco Bay Area by \$1.00, with this extra dollar funding various transportation projects within the region that have been determined to reduce congestion or to make improvements to travel in the toll bridge corridors, as identified in SB 916 (Chapter 715, Statutes of 2004), commonly referred as Regional Measure 2 (“RM2”); and

WHEREAS, RM2 establishes the Regional Traffic Relief Plan and lists specific capital projects and programs and transit operating assistance eligible to receive RM2 funding as identified in Streets and Highways Code Sections 30914(c) & (d); and

WHEREAS, RM2 assigns administrative duties and responsibilities for the implementation of the Regional Traffic Relief Plan to MTC; and

WHEREAS, BATA shall fund the projects of the Regional Traffic Relief Plan by transferring RM2 authorized funds to MTC; and

WHEREAS, MTC adopted policies and procedures for the implementation of the Regional Measure 2 Regional Traffic Relief Plan, specifying the allocation criteria and project compliance requirements for RM 2 funding (MTC Resolution No. 3636); and

WHEREAS, the Alameda Contra Costa Transit (AC Transit), Alameda County Transportation Commission, the Dumbarton Bridge Regional Operations Consortium member agencies, and MTC are

the project co-sponsors, and MTC will be the lead project sponsor and implementing agency for the Bay Bridge Forward project; and

WHEREAS, MTC has submitted a request for the allocation of RM 2 funds for the Bay Bridge Forward project; and

WHEREAS, the Bay Bridge Forward project is an element of the Regional Measure 2 Express Bus South program, identified as capital project number 29 under RM 2 and is eligible to receive RM 2 funding as identified in Streets and Highways Code Sections 30914(c)(29); and

WHEREAS, the project sponsor has submitted an Initial Project Report (IPR), as required pursuant to Streets and Highway Code Section 30914(e), to MTC for review and approval; and

WHEREAS, Attachment A to this resolution, attached hereto and incorporated herein as though set forth at length, lists the project and phase for which the project sponsor is requesting RM2 funding and the reimbursement schedule and amount recommended for allocation by MTC staff; and

WHEREAS, Attachment B to this resolution, attached hereto and incorporated herein as though set forth at length, lists the required project specific conditions which must be met prior to execution of the allocation and any reimbursement of RM2 funds; and

WHEREAS, Attachment C to this resolution, attached hereto and incorporated herein as though set forth at length, includes MTC staff's review of the Initial Project Report ("IPR") for this project; and

WHEREAS, Attachment D attached hereto and incorporated herein as though set forth at length, lists the cash flow of RM2 funds and complementary funding for the deliverable/useable RM2 project segment; and

WHEREAS, the claimants to which funds are allocated under this resolution have certified that the projects and purposes listed and recorded in Attachment A are in compliance with the requirements of the California Environmental Quality Act (Public Resources Code Section 21000 et seq.), and with the State Environmental Impact Report Guidelines (14 California Code of Regulations Section 15000 et seq.); now, therefore, be it

RESOLVED, that MTC approves MTC staff's review of the project sponsor's IPR for this project as set forth in Attachment C; and be it further

RESOLVED, that MTC approves the allocation and reimbursement of RM2 funds in accordance with the amount and reimbursement schedule for the phase, and activities as set forth in Attachment A; and, be it further

RESOLVED, that the allocation and reimbursement of RM2 funds as set forth in Attachment A are conditioned upon the project sponsor complying with the provisions of the Regional Measure 2 Regional Traffic Relief Plan Policy and Procedures as set forth in length in MTC Resolution 3636; and be it further

RESOLVED, that the allocation and reimbursement of RM2 funds are further conditioned upon the project specific conditions as set forth in Attachment B; and, be it further

RESOLVED, that the allocation and reimbursement of RM2 funds as set forth in Attachment A are conditioned upon the availability and expenditure of any complementary funding as set forth in Attachment D; and be it further

RESOLVED, that reimbursement of RM2 funds as set forth in Attachment A is subject to the availability of RM2 funding; and be it further

RESOLVED, that a certified copy of this resolution, shall be forwarded to the project sponsor.

METROPOLITAN TRANSPORTATION COMMISSION



David Corlese, Chair

The above resolution was entered into by the Metropolitan Transportation Commission at the regular meeting of the Commission held in San Francisco, California, on December 21, 2016.

REGIONAL MEASURE 2 PROGRAM Allocation of Funds

Project Title: Bay Bridge Forward
 Sponsor: Metropolitan Transportation Commission
 Project Number: 29.7

Activities to be funded with Allocation #1:						
This allocation will fund the planning, environmental, and preliminary engineering phase for the Bay Bridge Forward suite of projects, including but not limited to (1) West Grand HOV/Bus-Only Lane; (2) Sterling Street Express Lane and HOV Enforcement; (3) Casual Carpool; (4) Integrated Bridge Corridor; (5) Commuter Parking; and (6) Flexible On-Demand Transit.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
17425001	21-Dec-16	\$ 2,312,000	ENV/PE	FY 2016-17	\$ 2,312,000	

Activities to be funded with Allocation #2:						
Allocation 17425002 will fund the study of high-occupancy vehicle enforcement pilot by the California Highway Patrol. The study will measure the impacts of increased CHP enforcement at specific HOV on-ramps and produce a study for future use.						
Allocation 17425003 will fund the final design phase of the West Grand HOV/Bus Only Lane (approach to the San Francisco-Oakland Bay Bridge) in Oakland.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
17425002	24-May-17	\$ 730,000	ENV/PE	FY 2016-17	\$ 3,042,000	
17425003	24-May-17	\$ 200,000	PS&E	FY 2016-17	\$ 3,242,000	

Activities to be funded with Allocation #3:						
Allocation 17425004 will fund the study of Flexible Transit Pilot among large employers in San Francisco, for underserved routes between San Francisco and the East Bay.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
17425004	28-Jun-17	\$ 750,000	ENV/PE	FY 2016-17	\$ 3,992,000	

REGIONAL MEASURE 2 PROGRAM Allocation of Funds

Project Title: Bay Bridge Forward
Sponsor: Metropolitan Transportation Commission
Project Number: 29.7

Activities to be funded with Allocation #4:						
Allocation 18425005 will fund the construction of the West Grand Avenue HOV/Bus-Only Lane project (Phase 1), and allocation 18425006 will fund the final design of the BBF Commuter Parking project.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
18425005	20-Dec-17	\$ 2,500,000	CON	FY 2017-18	\$ 6,492,000	
18425006	20-Dec-17	\$ 168,000	PS&E	FY 2017-18	\$ 6,660,000	

Activities to be funded with Allocation #5:						
Allocation 18425007 will augment allocation 18425006 to fund the final design of the BBF Commuter Parking project; allocation 18425008 will fund the study of Vehicle Occupancy Detection (VOD) pilot; and allocation 18425009 will augment allocation 17425002 to fund the study of high-occupancy vehicle enforcement pilot by the California Highway Patrol.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
18425007	28-Feb-18	\$ 417,000	PS&E	FY 2017-18	\$ 7,077,000	
18425008	28-Feb-18	\$ 200,000	ENV/PE	FY 2017-18	\$ 7,277,000	
18425009	28-Feb-18	\$ 100,000	ENV/PE	FY 2017-18	\$ 7,377,000	

Activities to be funded with Allocation #6:						
Allocation 18425010 will fund the construction of the BBF Commuter Parking project; and Allocation 18425011 will augment allocation 18425005 for the construction of the West Grand Avenue HOV/Bus-Only Lane project (Phase 1).						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
18425010	27-Jun-18	\$ 880,000	CON	FY 2017-18	\$ 8,257,000	
18425011	27-Jun-18	\$ 120,000	CON	FY 2017-18	\$ 8,377,000	

REGIONAL MEASURE 2 PROGRAM Allocation of Funds

Project Title: Bay Bridge Forward
Sponsor: Metropolitan Transportation Commission
Project Number: 29.7

Activities to be funded with Allocation #7:						
Allocation 19425012 will augment allocations 18425005 and 18425011 for the construction of the West Grand Avenue HOV/Bus-Only Lane project (Phase 1); Allocation 19425013 will augment allocations 17425002 and 18425009 to fund the study of high-occupancy vehicle enforcement pilot by the CHP; and Allocation 19425014 will augment allocation 17425001 for the planning, environmental, and preliminary engineering phases for the Bay Bridge Forward suite of projects.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
19425012	25-Jul-18	\$ 700,000	CON	FY 2018-19	\$ 9,077,000	
19425013	25-Jul-18	\$ 310,000	ENV/PE	FY 2018-19	\$ 9,387,000	
19425014	25-Jul-18	\$ 1,250,000	ENV/PE	FY 2018-19	\$ 10,637,000	



Regional Measure 2 Regional Traffic Relief Plan

December 21, 2016
 Attachment C
 MTC Resolution No. 4250
 Revised: 06/28/17-C; 12/20/17-C
 02/28/18-DA; 06/27/18-DA; 07/25/18-C

RM2 Project Number: 29.7 Bay Bridge Forward

Lead Sponsor Metropolitan Transportation Commission	Other Sponsors(s) None.	Implementing Agency (if applicable) Metropolitan Transportation Commission
Legislated Project Description Regional Express Bus Service and Operational Improvements for San Mateo, Dumbarton, and Bay Bridge Corridors. Expand park and ride lots, improve HOV and express lane access, construct ramp improvements, purchase rolling stock, deploy corridor management technologies, and improve transit and carpooling between the East Bay and San Francisco. The project sponsors are AC Transit, Alameda County Transportation Commission, the Dumbarton Bridge Regional Operations Consortium member agencies, and the Metropolitan Transportation Commission.		
RM2 Legislated Funding (in \$1,000) Total Overall Funding \$54,933 29.1 AC Transit Rolling Stock (\$5,300) 29.2 Route 84 WB-Newark Boulevard HOV On-ramp (\$39) 29.3 Route 84 WB - HOV Lane Extension between I-880/Newark Blvd (\$4,063) 29.4 Grand-MacArthur Express Bus Corridor (\$3,515) 29.5 Ardenwood Boulevard Park and Ride Lot (\$6,173) 29.6 Dumbarton Express Bus Replacement (\$10,042) 29.7 Bay Bridge Forward (\$21,000) 29.X Reserve (\$4,801)		Total Estimated Project Cost (in \$1,000) \$31,120
Project Purpose and Description Implementation of near-term, cost-effective operational improvements that offer travel time savings and reliability for carpooling and transit use will not only increase person throughput but also reduce congestion, incidents, and emissions in the San Francisco-Oakland Bay Bridge corridor.		
Funding Description Committed Funds: Fully funded by RM2, federal, and other regional funds. Uncommitted Funds: None. Operating Capacity: Caltrans will own and operate improvements on the State Highway System, while MTC and local agencies would cooperatively maintain improvements on streets off the State Highway System.		

Overall Project Cost and Schedule

Phase	Scope	Start	End	Cost (in \$1,000)
1	Environmental Document/Preliminary Engineering	11/2016	6/2019	\$5,899
2	Designs, Plans, Specs, & Estimates	3/2017	12/2019	\$2,785
3	Right-of-Way Acquisition	n/a	n/a	\$0
4	Construction	6/2017	6/2020	\$22,436

Total: \$31,120

Total Project Funding Plan: Committed and Uncommitted Sources

(Amounts Escalated in Thousands)

Project Title	Bay Bridge Forward	Project No.	29.7
Lead Sponsor	Metropolitan Transportation Commission	Last Updated	7/25/2018

Fund Source	Phase	Prior	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Future	Total
Committed										
RM2	Env./ PE		2,000	500	3,130					5,630
Local/Regional	Env./ PE		269							269
RM2	PS&E		200	585	2,000					2,785
RM2	CON			3,500	1,650	7,435				12,585
Federal Funds	CON				500	2,000				2,500
Local/Regional	CON				7,351					7,351
Total:		0	2,469	4,585	14,631	9,435	0	0	0	\$ 31,120
Uncommitted										
										0
Total:		0	0	0	0	0	0	0	0	\$ -
Total Project Committed and Uncommitted										
		Prior	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Future	Total
Total:		0	2,469	4,585	14,631	9,435	0	0	0	\$ 31,120

REGIONAL MEASURE 2 PROGRAM Project Cash Flow Plan

Project Title: Bay Bridge Forward
Sponsor: Metropolitan Transportation Commission
RM2 Project Number: 29.7

RM2 Project No. 29.7	PRIOR	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	TOTAL
RM2 Funds Total		3,992,000	4,385,000	2,260,000	-	-	10,637,000
Environmental, PE	0	4,061,000	300,000	1,560,000	0	0	5,921,000
RM2		3,792,000	300,000	1,560,000			5,652,000
Local/Regional Funds		269,000					269,000
Final Design (PS&E)	0	200,000	585,000	0	0	0	785,000
RM2		200,000	585,000				785,000
							0
							0
Right of Way	0	0	0	0	0	0	0
							0
							0
							0
Construction	0	0	13,351,000	700,000	0	0	14,051,000
RM2			3,500,000	700,000			4,200,000
Federal Funds			2,500,000				2,500,000
Other Local Funds			7,351,000				7,351,000
TOTAL FUNDING							
Environmental	0	4,061,000	300,000	1,560,000	0	0	5,921,000
Final Design (PS&E)	0	200,000	585,000	0	0	0	785,000
Right of Way	0	0	0	0	0	0	0
Construction	0	0	13,351,000	700,000	0	0	14,051,000
PROJECT TOTAL	0	4,261,000	14,236,000	2,260,000	0	0	20,757,000