

Metropolitan Transportation Commission Programming and Allocations Committee

October 13, 2021

Agenda Item 2d - 21-1146

MTC Resolution No. 3664, Revised

- Subject:** Regional Measure 2 (RM2) Project 32: Allocation of \$150,000 in RM2 funds to the Livermore Amador Valley Transit Authority (LAVTA) for the Shared Autonomous Vehicle Project.
- Background:** **RM2 Project 32 History**
The \$65 million I-580 Tri-Valley Rapid Corridor Improvements project, identified as capital project number 32 under RM2, currently consists of four subprojects for which MTC has already allocated funds:
1. Project 32.1, **Eastbound I-580 Improvements** (eastbound HOV lane, allocated \$36 million in RM2 funds),
 2. Project 32.2, **I-580/I-680 Interchange Modifications and Westbound I-580 Improvements** (HOV connectors between I-580 and I-680, and an I-580 westbound HOV lane, allocated \$17 million in RM2 funds); and
 3. Project 32.3, the **Dublin Transit Center Parking Garage project**, (allocated \$7 million in RM2 funds).
 4. Project 32.4, the **LAVTA Rapid Bus Stop Improvement Project** (programmed \$2.3 million in RM2 funds for improvements at rapid bus stops serving BART)
- Approximately \$2.7 million in RM2 funds remains unprogrammed in Project 32. The Alameda County Transportation Commission (Alameda CTC) is the project sponsor.
- LAVTA SAV Project Proposal**
This item proposes to add a fifth subproject, 32.5, for the LAVTA Shared Autonomous Vehicle (SAV) Project, and allocate \$150,000 in RM2 funds to LAVTA for the design phase of the project. A second RM2 allocation of the remaining \$2.5 million for the construction phase would likely be recommended for Commission consideration next year.
- LAVTA proposes to implement a fixed-route SAV service between Dublin/Pleasanton BART Station and the Zeiss Innovation center and Ross Headquarters business park, one mile from the BART station. Employment at the recently expanded business park is expected to be approximately 3,000. LAVTA has successfully road-tested a version of the SAV service in the area. Phase 2 of the project, proposed to be funded by RM2, includes procurement of three new SAVs, local infrastructure upgrades to support the SAVs, and new passenger facilities near the Ross Headquarters business park to serve as the route endpoint. The total cost for these improvements is \$3.3 million.

As sponsor for RM2 Project 32, Alameda CTC approved the allocation request and designated LAVTA as the implementing agency for the remaining \$2.7 million in RM2 funds for the Shared Autonomous Vehicle project at its Commission meeting on September 23rd, 2021.

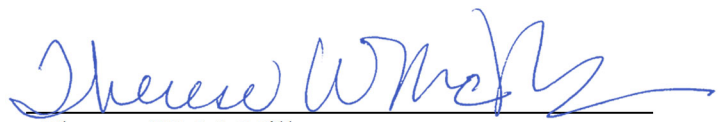
Issues:

The total cost of the Phase 2 SAV project is higher than the RM2 funds available for the project. LAVTA is seeking additional capital funding sources, but in case additional funds are not secured, the project could be scaled down, by acquiring two vehicles instead of three, to be delivered with only RM2 funds.

LAVTA has not yet secured funds to operate the SAV service. They have identified potential funding partners in the private businesses that would be served by the new route and are considering other State and Federal operations funding. Ensuring that capital investments for expansion of service are adequately funded for operations is an ongoing area of concern. Staff will continue to monitor LAVTA's progress on this and may take operations funding into consideration when evaluating future requests for construction funding for this project.

Recommendation: Refer MTC Resolution No. 3664, Revised to the Commission for approval.

Attachments: MTC Resolution No. 3664, Revised.


Therese W. McMillan

Date: October 27, 2004
W.I.: 1255
Referred by: PAC
Revised: 03/23/05-DA 07/26/06-C
04/25/07-C 09/28/07-DA
12/19/07-DA 04/23/08-C
08/27/08-DA 09/24/08-C
11/26/08-C 01/28/09-DA
09/23/09-DA 02/24/10-C
07/28/10-C 11/16/11-DA
02/22/12-DA 03/28/12-DA
06/27/12-DA 10/24/12-C
10/23/13-C 07/24/19-C
05/26/21-C 10/27/21-C

ABSTRACT

MTC Resolution No. 3664, Revised

This resolution approves the allocation of Regional Measure 2 funds for the I-580 Tri-Valley Rapid Corridor Improvements project sponsored and implemented by the Alameda County Congestion Management Agency.

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 Alameda County Congestion Management Agency's Initial Project Report (IPR) for this project

Attachment D - RM2 Deliverable/Useable Segment Cash Flow Plan

This resolution was revised through Executive Director Delegated Authority on March 23, 2005 to give ACCMA the flexibility to invoice MTC as frequently as monthly for expenses incurred on this project.

This resolution was revised through Commission action on July 26, 2006 to include additional allocations for Project 32.1, Eastbound I-580 Improvements for \$11.5 million in new RM2 allocations, and Project 32.2, I-580/I-680 Interchange Modifications and Westbound I-580 Improvements for \$1.7 million in new RM2 allocations.

This resolution was revised through Commission action on April 25, 2007 to include supplemental allocations for Project 32.1, Eastbound I-580 Improvements for \$3.8 million in

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new RM2 allocations, and for Project 32.2, Westbound I-580 Improvements for \$10 million in new RM2 allocations.

This resolution was revised through Delegated Authority on September 28, 2007 to provide a \$500,000 supplemental preliminary engineering allocation for Project 32.1, Eastbound I-580 Improvements.

This resolution was revised through Delegated Authority on December 19, 2007 to allocate \$500,000 in final design funds for Project 32.1, Eastbound I-580 HOV Improvements.

This resolution was revised through Commission Action on April 23, 2008 to allocate \$9.182 million in construction funds for Project 32.1, Eastbound I-580 HOV Improvements, in order to backfill TCRP funds, and to add a condition that any TCRP repayments for this amount shall be returned to MTC. This action also rescinds \$800,000 from an allocation for Environmental and reallocates the same amount for environmental under Project 32.2.

This resolution was revised through Delegated Authority on August 27, 2008 to allocate \$100,000 in environmental and preliminary engineering funds for Project 32.1, Eastbound I-580 HOV Improvements, for High-Occupancy Toll accommodation on the corridor.

This resolution was revised through Commission Action on September 24, 2008 to allocate \$400,000 in environmental phase funds for Project 32.1, Eastbound I-580 HOV Improvements, for corridor management activities, and \$900,000 in environmental and preliminary engineering funds for Project 32.1, Eastbound I-580 HOV Improvements, for High-Occupancy Toll accommodation on the corridor.

This resolution was revised through Commission Action on November 26, 2008 to allocate \$500,000 in environmental and preliminary engineering funds for Project 32.1, Eastbound I-580 HOV Improvements, for High-Occupancy Toll accommodation on the corridor.

This resolution was revised through Delegated Authority on January 28, 2009 to allocate \$700,000 in environmental and preliminary engineering funds for Project 32.1, Eastbound I-580 HOV Improvements, for the supplemental auxiliary lanes on I-580.

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This resolution was revised through Delegated Authority on September 23, 2009 to rescind allocation of \$6,000,000 from the construction of Project 32.1d, Eastbound I-580 HOV Improvements, and to allocate \$200,000 in environmental and preliminary engineering funds for Project 32.2, Westbound I-580 HOV Improvements.

This resolution was revised through Commission Action on February 24, 2010 to allocate approximately \$1.7 million for the final design phase and \$2.6 million for the right of way phase for Project 32.2a, I-580 Westbound HOV Lane Improvements, and allocate \$300,000 for the environmental and preliminary engineering phase for Project 32.1d, I-580 Eastbound HOV Lane Improvements (Auxiliary Lanes).

This resolution was revised through Commission Action on July 28, 2010 to allocate about \$1.3 million for the environmental mitigation of the I-580 HOV corridor (Project 32.1e).

This resolution was revised through Delegated Authority on November 16, 2011 to rescind \$846,246.81 from the construction allocation of Project 32.1d, I-580 Eastbound HOV Lane Improvements (allocation number 08366416), due to payback from Traffic Congestion Relief Program reimbursement from the State of California.

This resolution was revised through Delegated Authority on February 22, 2012 to allocate \$800,000 for the final design and \$200,000 for right-of-way for Project 32.1d, I-580 Eastbound HOV Lane Improvements.

This resolution was revised through Delegated Authority on March 28, 2012 to allocate \$200,000 in RM2 funds for the final design phase of Project 32.1d, I-580 Eastbound HOV Lane Improvements.

This resolution was revised through Delegated Authority on June 27, 2012 to allocate \$585,000 in RM2 funds for the environmental phase of Project 32.1e, I-580 HOV Corridor Environmental Mitigation.

This resolution was revised through Commission Action on October 24, 2012 to allocate \$335,279 for the final design phase and \$3,315,000 for the construction phase of Project 32.1d, I-580 Eastbound HOV Lane Improvements (Auxiliary Lanes).

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This resolution was revised through Commission Action on October 23, 2013 to rescind allocation of \$1.5 million of previously allocated RM2 funds from Projects 32.1 and 32.2 due to cost savings at project close out, and to allocate \$4 million in RM2 funds for the construction phase of Project 32.1f, I-580 HOV Improvements for High-Occupancy Toll accommodation on the corridor.

This resolution was revised through Commission Action on July 24, 2019 to allocate \$7 million in RM2 funds for the construction phase of project 32.3, Dublin Transit Center Parking Garage Project.

This resolution was revised through Commission Action on May 26, 2021 to add a new project 32.4, LAVTA Rapid Bus Stop Improvement Project, and to allocate \$230,000 in RM2 funds for design of this project.

This resolution was revised through Commission Action on October 27, 2021 to add a new project 32.5, LAVTA Shared Autonomous Vehicle Project, and to allocate \$150,000 in RM2 funds for design of this project.

Additional discussion of this allocation is contained in the Executive Director's memorandum to the MTC Programming and Allocations Committee dated October 8, 2004, July 12, 2006, April 11, 2007, and December 10, 2008, and the summary sheet to the Programming and Allocations Committee dated April 9, 2008, July 9, 2008, September 10, 2008, November 12, 2008, February 10, 2010, July 14, 2010, October 10, 2012, October 9, 2013, July 10, 2019, May 12, 2021, and October 13, 2021.

Date: October 27, 2004
W.I.: 1255
Referred by: PAC

Re: Approval of Allocation of Regional Measure 2 funds for the I-580 Tri-Valley Rapid Transit Corridor Improvements Project

METROPOLITAN TRANSPORTATION COMMISSION
RESOLUTION No. 3664

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 on June 23, 2004, specifying the allocation criteria and project compliance requirements for RM 2 funding (MTC Resolution No. 3636); and

WHEREAS, the Alameda County Congestion Management Agency has submitted a request for the allocation of RM 2 funds for the I-580 Tri-Valley Rapid Corridor Improvements project; and

WHEREAS, I-580 Tri-Valley Rapid Corridor Improvements project is identified as capital project number 32 under RM 2 and is eligible to receive RM 2 funding as identified in Streets and Highways Code Sections 30914(c); and

WHEREAS, the Alameda County Congestion Management Agency 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 Alameda County Congestion Management Agency 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 Alameda County Congestion Management Agency’s 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; now, therefore be it

RESOLVED, that MTC approves MTC staff’s review of the Alameda County Congestion Management Agency’s IPR for this project as set forth in Attachment C; and be it further

RESOLVED, that the allocation and reimbursement of RM2 funds as set forth in Attachment A are conditioned upon the Alameda County Congestion Management Agency 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

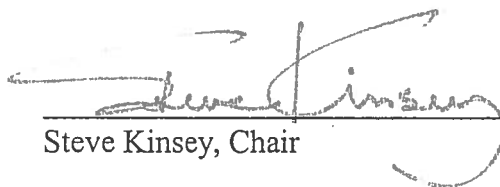
RESOLVED, that the allocation and reimbursement of RM2 funds are further conditioned upon the project specific conditions as set forth in Attachment B; and, be it further

RESOLVED, that the allocation and reimbursement of RM2 funds as set forth in Attachment A are conditioned upon the availability and expenditure of the 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


Steve Kinsey, Chair

The above resolution was entered into by the Metropolitan Transportation Commission at the regular meeting of the Commission held in Oakland, California, on October 27, 2004.

REGIONAL MEASURE 2 PROGRAM Allocation of Funds

Project Title: LAVTA Shared Autonomous Vehicle Project
Sponsor: Livermore Amador Valley Transit Authority
Project Number: 32.5

Allocation No. 32.5						
Activities to be funded with Allocation #1:						
This allocation will fund design work to provide for 100% plans, specification, and estimates for Phase 2 of the Shared Autonomous Vehicle Project.						
Funding Information:						
Allocation Instruction No.	Approval Date	Amount	Phase	Reimbursement Year	Cumulative Total To Date	
22366437	27-Oct-21	\$ 150,000	PSE	FY 2021-22	\$ 150,000	

REGIONAL MEASURE 2 PROGRAM
Project Specific Conditions

Project Title: LAVTA Shared Autonomous Vehicle Project
Sponsor: Livermore Amador Valley Transit Authority
Project Number: 32.5

The allocation and reimbursement of RM2 funds for the above project are conditioned upon the following.

1. Approval by the Alameda County Transportation Commission of the IPR and allocation request and designation of LAVTA as implementing agency for the Shared Autonomous Vehicle Project



RM2 Project Number: 32.5
LAVTA Shared Autonomous Vehicle Project

Lead Sponsor Alameda County Transportation Commission	Other Sponsors(s) None	Implementing Agency (if applicable) Alameda County Transportation Commission
Legislated Project Description Provide rail or High-Occupancy Vehicle lane direct connector to Dublin BART and other improvements on I-580 in Alameda County for use by express buses		
RM2 Legislated Funding (in \$1,000) \$2,695		Total Estimated Project Cost (in \$1,000) \$3,295
Project Purpose and Description The primary purpose of this project is to advance deployment of LAVTA's Shared Autonomous Vehicle (SAV) Project with capital investments necessary to support Phase 2 operations. LAVTA's SAV service between the Ross Headquarters business park (Zeiss and other businesses are also in the high-density office park) will generate new public transit ridership on BART and LAVTA that will reduce congestion on I-580, decrease pollution, and contribute to greater safety on roadways.		
Funding Description Committed Funds: RM2 Uncommitted Funds: TBD Operating Capacity: LAVTA		

Overall Project Cost and Schedule

Phase	Scope	Start	End	Cost (in \$1,000)
1	Final Environmental Document and Preliminary Eng.	N/A	N/A	
2	Final Design - Plans, Specifications and Estimates	11/2021	05/2022	\$150
3	Right-of-Way	N/A	N/A	
4	Construction	09/2022	10/2023	\$3,145
Total:				\$3,295

Total Project Funding Plan: Committed and Uncommitted Sources

(Amounts Escalated in Thousands)

Project Title	LAVTA Shared Autonomous Vehicle Project					Project No. 32.5				
Implementing Agency	Alameda County Transportation Commission									
Fund Source	Phase	Prior	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	Future	Total
Committed										
RM2	PSE		150							150
RM2	CON			2,545						2,545
										0
										0
										0
										0
										0
Total:		0	150	2,545	0	0	0	0	0	2,695
Uncommitted										
TBD	CON			600						600
Total:		0	0	600	0	0	0	0	0	600
Total Project Committed and Uncommitted										
		Prior	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	Future	Total
Total:		0	150	3,145	0	0	0	0	0	3,295

REGIONAL MEASURE 2 PROGRAM Project Cash Flow Plan

Project Title: LAVTA Shared Autonomous Vehicle Project
Sponsor: Livermore Amador Valley Transit Authority
RM2 Project Number: 32.5

	PRIOR	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	Future	Total
RM2 Funds Total	-	-	-	400	2,145	-	2,545
Environmental (ENV)	0	0	0	0	0	0	0
Final Design (PS&E)	0	0	150	0	0	0	150
RM2			150				150
Right of Way	0	0	0	0	0	0	0
Construction	0	0	0	494	2,651	0	3,145
RM2				400	2,145		2,545
TBD				94	506		600
TOTAL FUNDING							
Environmental	0	0	0	0	0	0	0
Final Design (PS&E)	0	0	150	0	0	0	150
Right of Way	0	0	0	0	0	0	0
Construction	0	0	0	494	2,651	0	3,145
PROJECT TOTAL	0	0	150	494	2,651	0	3,295