

Meeting Agenda

Bay Area Infrastructure Financing Authority

Authority Members:
Alfredo Pedroza, Chair Amy Worth, Vice Chair
Federal D. Glover, Carol Dutra-Vernaci, James P. Spering

Non-Voting Member: Dina El-Tawansy

Wednesday, July 28, 2021

9:55 AM

Board Room - 1st Floor (REMOTE)

The Bay Area Infrastructure Financing Authority is scheduled to meet on Wednesday, July 28, 2021 at 9:55 a.m., or immediately following the 9:50 a.m. BAHA meeting, in the Bay Area Metro Center (Remotely). In light of Governor Newsom's State of Emergency declaration regarding the COVID-19 outbreak and in accordance with Executive Order N-29-20 issued by Governor Newsom on March 17, 2020 and the Guidance for Gatherings issued by the California Department of Public Health, the meeting will be conducted via webcast, teleconference, and Zoom for committee, commission, or board members who will participate in the meeting from individual remote locations. A Zoom panelist link for meeting participants will be sent separately to committee, commission, or board members.

The meeting webcast will be available at https://mtc.ca.gov/whats-happening/meetings/live-webcasts.

Members of the public are encouraged to participate remotely via Zoom at the following link or phone number.

Attendee Link: https://bayareametro.zoom.us/j/83945173910 iPhone One-tap: US: +14086380968,,83945173910# or +16699006833,,83945173910# Join by Telephone (for higher quality, dial a number based on your current location) US:

+1 669 900 6833 or +1 408 638 0968 or +1 346 248 7799 or +1 253 215 8782 or +1 646 876 9923 or +1 301 715 8592 or

+1 312 626 6799 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)

Webinar ID: 839 4517 3910

International numbers available: https://bayareametro.zoom.us/u/kchWlCqAWt

Detailed instructions on participating via Zoom are available at:
https://mtc.ca.gov/how-provide-public-comment-board-meeting-zoom. Committee members
and members of the public participating by Zoom wishing to speak should use the "raise hand"
feature or dial "*9". In order to get the full Zoom experience, please make sure your
application is up to date.

Members of the public may participate by phone or Zoom or may submit comments by email at info@bayareametro.gov by 5:00 p.m. the day before the scheduled meeting date. Please include the committee or board meeting name in the subject line. Due to the current circumstances there may be limited opportunity to address comments during the meeting. All comments received will be submitted into the record.

1. Call to Order / Roll Call / Confirm Quorum

Quorum: A quorum of this Authority shall be a majority of its regular voting members (3).

2. Consent Calendar

2a. 21-0929 Minutes of the June 23, 2021 meeting

Action: Authority Approval

<u>Attachments:</u> 2a - 21-0929 - June 23 BAIFA Draft Minutes.pdf

3. Authority Approval

3a. 21-0959 BAIFA Resolution No. 23. Solano County I-80 Express Lanes Letter of No.

Prejudice and Agreement for the Repayment of Unrestricted Funds to MTC

A request for approval of BAIFA Resolution No. 23 requesting a Regional

Measure 3 Letter of No Prejudice (LONP) from the Metropolitan

Transportation Commission (MTC) for the Solano I-80 Express Lanes project; and a request for approval of a funding agreement for the repayment of unrestricted funds to MTC by STA (MTC Resolution No.

4479) and BAIFA.

Action: Authority Approval

<u>Presenter:</u> Stephen Wolf

Attachments: 3a - 21-0959 - Reso 23 - BAIFA Sol 80 EL LONP.pdf

3b. 21-0960 Contract Change Order - Express Lane Toll System Integrator (TSI):

TransCore, LP (\$23,568,508 and a contingency of \$2,356,851)

A request for approval to enter into a contract change order with TransCore, LP (TransCore) to: 1) add options to extend the current contract with TransCore in annual increments of up to three (3) additional years on a sole source basis; and 2) add the toll system implementation for the Solano I-80 express lane between Fairfield and Vacaville in an amount

not to exceed \$23,568,508 plus a contingency of \$2,356,851.

Action: Authority Approval

<u>Presenter:</u> Ken Hoang

Attachments: 3b - 21-0960 - Contract Change Order TransCore LP.pdf

3b - 21-0960 - Contract Change Order TransCore LP_Presentation.pdf

4. Information

4a. 21-0930 I-880 Express Lanes Performance and MTC Express Lanes Quarterly

Report: First Quarter (January - March 2021)

A presentation on early operations of the I-880 Express Lanes and a report

on capital project delivery progress for MTC Express Lanes and performance of MTC's I-680 Contra Costa and I-880 express lanes.

Action: Information

<u>Presenter:</u> Barbara Laurenson

<u>Attachments:</u> 4a - 21-0930 - MTC EL Quarterly Report Q1 2021.pdf

4a - 21-0930 - MTC EL Quarterly Report Q1 2021 Presentation.pdf

5. Public Comment / Other Business

6. Adjournment / Next Meeting

The next meeting of the Bay Area Infrastructure Financing Authority is scheduled to be held on Wednesday, September 22, 2021 remotely and by webcast. Any changes to the schedule will be duly noticed to the public.

Page 3

Public Comment: The public is encouraged to comment on agenda items at Authority meetings by completing a request-to-speak card (available from staff) and passing it to the Authority secretary. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

Meeting Conduct: If this meeting is willfully interrupted or disrupted by one or more persons rendering orderly conduct of the meeting unfeasible, the Chair may order the removal of individuals who are willfully disrupting the meeting. Such individuals may be arrested. If order cannot be restored by such removal, the members of the Authority may direct that the meeting room be cleared (except for representatives of the press or other news media not participating in the disturbance), and the session may continue.

Record of Meeting: Authority meetings are recorded. Copies of recordings are available at a nominal charge, or recordings may be listened to at MTC offices by appointment. Audiocasts are maintained on MTC's Web site (mtc.ca.gov) for public review for at least one year.

Accessibility and Title VI: MTC provides services/accommodations upon request to persons with disabilities and individuals who are limited-English proficient who wish to address Commission matters. For accommodations or translations assistance, please call 415.778.6757 or 415.778.6769 for TDD/TTY. We require three working days' notice to accommodate your request.

可及性和法令第六章: MTC 根據要求向希望來委員會討論有關事宜的殘疾人士及英語有限者提供服務/方便。需要便利設施或翻譯協助者,請致電 415.778.6757 或 415.778.6769 TDD / TTY。我們要求您在三個工作日前告知,以滿足您的要求。

Acceso y el Titulo VI: La MTC puede proveer asistencia/facilitar la comunicación a las personas discapacitadas y los individuos con conocimiento limitado del inglés quienes quieran dirigirse a la Comisión. Para solicitar asistencia, por favor llame al número 415.778.6757 o al 415.778.6769 para TDD/TTY. Requerimos que solicite asistencia con tres días hábiles de anticipación para poderle proveer asistencia.

Attachments are sent to Authority members, key staff and others as appropriate. Copies will be available at the meeting.

All items on the agenda are subject to action and/or change by the Authority. Actions recommended by staff are subject to change by the Authority.



Metropolitan Transportation Commission

Legislation Details (With Text)

File #: 21-0929 Version: 1 Name:

Type: Minutes Status: Authority Approval

File created: 6/15/2021 In control: Bay Area Infrastructure Financing Authority

On agenda: 7/28/2021 Final action:

Title: Minutes of the June 23, 2021 meeting

Sponsors:

Indexes:

Code sections:

Attachments: 2a - 21-0929 - June 23 BAIFA Draft Minutes.pdf

Date Ver. Action By Action Result

Subject:

Minutes of the June 23, 2021 meeting

Recommended Action:

Authority Approval



Meeting Minutes

Bay Area Infrastructure Financing Authority

Authority Members:
Alfredo Pedroza, Chair Amy Worth, Vice Chair
Federal D. Glover, Carol Dutra-Vernaci, James P. Spering

Non-Voting Member: Dina El-Tawansy

Wednesday, June 23, 2021

9:55 AM

Board Room - 1st Floor (REMOTE)

Call Remote Meeting to Order

1. Roll Call / Confirm Quorum

Present: 5 - Chair Pedroza, Vice Chair Worth, Commissioner Dutra-Vernaci, Commissioner

Glover and Commissioner Spering

Non-Voting Member Absent: Commissioner El-Tawansy

2. Consent Calendar

Upon the motion by Commissioner Spering and the second by Vice Chair Worth, the Consent Calendar was unanimously approved by the following vote:

Aye: 5 - Chair Pedroza, Vice Chair Worth, Commissioner Dutra-Vernaci, Commissioner Glover and Commissioner Spering

2a. <u>21-0550</u> Minutes of the March 24, 2021 meeting

Action: Authority Approval

2b. 21-0793 BAIFA Financial Statements for Q3 FY 2020-21 (Unaudited)

Action: Information

Presenter: Raymond Woo

2c. 21-0798 Purchase Order - Express Lanes Backhaul Network Consulting Services:

SSP Data (\$350,000)

Action: Authority Approval

Presenter: Mark Dinh

2d. 21-0814 Contract Change Order - Express Lane Toll System Integrator (TSI):

TransCore, LP (\$6,341,763 plus a contingency of \$214,934)

Action: Authority Approval

Presenter: Ken Hoang

3. Authority Approval

3a. 21-0794 BAIFA Resolution No. 22 - FY 2021-22 Operating and Capital Budgets

A request for Authority approval of BAIFA Resolution No. 22, authorizing

the BAIFA Operating and Capital Budgets for FY 2021-22.

Action: Authority Approval

Presenter: Brian Mayhew

Remi Tan was called to speak.

Upon the motion by Commissioner Dutra-Vernaci and the second by

Commissioner Glover, the Authority unanimously adopted BAIFA Resolution No.

22. The motion carried by the following vote:

Aye: 5 - Chair Pedroza, Vice Chair Worth, Commissioner Dutra-Vernaci, Commissioner

Glover and Commissioner Spering

4. Public Comment / Other Business

5. Adjournment / Next Meeting

The next meeting of the Bay Area Infrastructure Financing Authority is scheduled to be held on Wednesday, July 28, 2021 remotely and by webcast. Any changes to the schedule will be duly noticed to the public.



Metropolitan Transportation Commission

Legislation Details (With Text)

File #: 21-0959 Version: 1 Name:

Type: Resolution Status: Authority Approval

File created: 6/21/2021 In control: Bay Area Infrastructure Financing Authority

On agenda: 7/28/2021 Final action:

Title: BAIFA Resolution No. 23. Solano County I-80 Express Lanes Letter of No Prejudice and Agreement

for the Repayment of Unrestricted Funds to MTC

A request for approval of BAIFA Resolution No. 23 requesting a Regional Measure 3 Letter of No Prejudice (LONP) from the Metropolitan Transportation Commission (MTC) for the Solano I-80 Express Lanes project; and a request for approval of a funding agreement for the repayment of

unrestricted funds to MTC by STA (MTC Resolution No. 4479) and BAIFA.

Sponsors:

Indexes:

Code sections:

Attachments: 3a - 21-0959 - Reso 23 - BAIFA Sol 80 EL LONP.pdf

Date Ver. Action By Action Result

Subject:

BAIFA Resolution No. 23. Solano County I-80 Express Lanes Letter of No Prejudice and Agreement for the Repayment of Unrestricted Funds to MTC

A request for approval of BAIFA Resolution No. 23 requesting a Regional Measure 3 Letter of No

Prejudice (LONP) from the Metropolitan Transportation Commission (MTC) for the Solano I-80 Express Lanes project; and a request for approval of a funding agreement for the repayment of unrestricted funds to MTC by STA (MTC

Resolution No. 4479) and BAIFA.

Presenter:

Stephen Wolf

Recommended Action:

Authority Approval

Bay Area Infrastructure Financing Authority (BAIFA)

July 28, 2021

Agenda Item 3a - 21-0959

BAIFA Resolution No. 23. Solano County I-80 Express Lanes Letter of No Prejudice and Agreement for the Repayment of Unrestricted Funds to MTC

Subject:

A request for approval of BAIFA Resolution No. 23 requesting a Regional Measure 3 Letter of No Prejudice (LONP) from the Metropolitan Transportation Commission (MTC) for the Solano I-80 Express Lanes project; and a request for approval of a funding agreement for the repayment of unrestricted funds to MTC by STA (MTC Resolution No. 4479) and BAIFA.

Background:

In Fall 2020, the California Transportation Commission (CTC) programmed over \$123 million in Senate Bill 1 (SB1) Trade Corridor Enhancement Program (TCEP) funds for the Solano I-80 Managed Lanes project. This project also has funding from Regional Measure 3 (RM3) which has been challenged and is currently under review in the California Supreme Court. In order to maintain the delivery commitment to CTC, and to avoid escalation costs for a project ready to proceed to construction but on hold due to lack of funding, MTC programmed federal discretionary funds as a backstop to RM3 funds in April 2021. At the same meeting, the Commission approved a LONP allowing the Solano Transportation Authority (STA) to proceed with the project using other funds and be eligible for reimbursement with RM3 funds when and if RM3 funds are made available.

Need for Non-Federal Funds

STA and the Bay Area Infrastructure Finance Authority (BAIFA) have identified project components that cannot use federal funds due to contracting requirements. These project components include design services during construction and the toll system integrator, and total roughly \$40 million, of which BAIFA's share would be approximately \$31 million.

To keep the project on track, staff proposes exchanging bridge toll savings as part of the Core Capacity Challenge Grant Program (CCCGP) with federal discretionary funds earmarked for the I-80 project. To start, staff proposes exchanging funds on an annual basis based on cash flow, with STA and BAIFA needing \$4.7 million through the end of calendar year 2022. Staff has identified a bus purchase project sponsored by AC Transit as the source of the exchange; AC Transit will be made whole with federal discretionary funds which are eligible for bus purchases. Future exchanges will be subject to additional discussion with STA/BAIFA and MTC, and subject to future Commission approval.

Page 2 of 3

The proposed exchange affects eight MTC resolutions taken to the July 2021 Programming and Allocations Committee, which can be categorized into three groups:

<u>Group 1</u>: Accurately Capture I-80 Project Programming and LONP in RM3 (currently, only STA is listed as project sponsor, but not BAIFA)

Action 1.1: Separate BAIFA's toll system contract from the

overall RM3 I-80 managed lanes project (MTC

Resolution No. 4411, Revised)

Action 1.2: Update the LONP for STA and approve a new

LONP for BAIFA based on the updated RM3

programming (MTC Resolution No. 4412, Revised)

<u>Group 2</u>: Exchange Funds between CCCGP and Federal Discretionary Funds

Action 2.1: Update the Core Capacity Challenge Grant Program

to reflect the revised funding mix to AC Transit

(MTC Resolution No. 4123, Revised*)

Action 2.2: Reduce CCCGP bridge toll project savings

programmed to AC Transit by \$4.7 million, and program and allocate the I-80 managed lanes

project for \$4.7 million (MTC Resolution No. 4169,

Revised)

Action 2.3: Program \$4.7 million to AC Transit in federal

discretionary funds originally earmarked for the I-80 managed lanes project (MTC Resolution No.

4202, Revised)

Group 3: Formalize Funding Agreements and Exchange Program

Action 3.1: Approve funding agreement for the repayment of

unrestricted funds to MTC by STA (MTC

Resolution No. 4479) and BAIFA (MTC Resolution

No. 4480)

Action 3.2: Include funds from funding agreements in

Exchange Program (MTC Resolution No. 3989,

Revised)

The agreements in Action 3.1 outline the terms and conditions under which MTC is to provide bridge toll savings funds, in exchange for STA and BAIFA unrestricted funds, which could include funds paid to STA/BAIFA from the RM3 LONP. Highlights of the agreements include:

• Total amount not to exceed \$4.7 million (roughly \$1.8 million for STA and \$2.8 million for BAIFA).

- STA and BAIFA to repay MTC with unrestricted funds that may be used by MTC anywhere within the region.
- STA and BAIFA are not required to repay these funds if the pending litigation is not resolved in favor of allowing disbursement of RM3 funds.

The STA/BAIFA unrestricted funds will be placed into the MTC Exchange Account for programming to projects at the discretion of the Commission.

Issues: The exchange assumes RM3 is resolved in favor of allowing disbursement

of RM3 funds.

If the pending litigation is not resolved in favor of allowing disbursement of RM3 funds, the bridge toll savings funds would not be required to be paid by BAIFA. While risk of non-repayment exists, the trade-off is that a regionally significant project will be able to proceed with federal funds

that leverage substantial state competitive funding.

Recommendation: Staff requests approval of BAIFA Resolution No. 23 requesting a RM3

LONP from MTC for the Solano I-80 Express Lanes project and that the Executive Director or her designee be authorized to enter into a funding

agreement for the repayment of unrestricted funds to MTC.

Attachments: BAIFA Resolution No. 23 requesting a RM3 LONP from MTC for the

Solano I-80 Express Lanes project.

Charaga W. MaMillan

Date: July 28, 2021 Referred by: BAIFA

ABSTRACT

BAIFA Resolution No. 23

This resolution approves a Regional Measure 3 (RM3) Letter of No Prejudice (LONP) from the Metropolitan Transportation Commission (MTC) for the Solano I-80 Express Lanes project.

The resolution contains the following attachments:

Attachment A – LONP Request Form

Attachment B – Initial Project Report

Attachment C – Cash Flow

Further discussion of this action is contained in the BAIFA Summary Sheet dated July 28, 2021.

Date: July 28, 2021 Referred by: BAIFA

Re: RM3 Implementing Agency Resolution of Project Compliance – Letter of No Prejudice Request

BAY AREA INFRASTRUCTURE FINANCE AUTHORITY RESOLUTION NO. 23

Project Title: Solano I-80 Express Lanes Project

WHEREAS, SB 595 (Chapter 650, Statutes 2017), commonly referred as Regional Measure 3, identified projects eligible to receive funding under the Regional Measure 3 Expenditure Plan; and

WHEREAS, the Metropolitan Transportation Commission (MTC) is responsible for funding projects eligible for Regional Measure 3 funds, pursuant to Streets and Highways Code Section 30914.7(a) and (c); and

WHEREAS, MTC has established a process whereby eligible transportation project sponsors may submit allocation requests for Regional Measure 3 funding; and

WHEREAS, Letter of No Prejudice (LONP) requests to MTC must be submitted consistent with procedures and conditions as outlined in Regional Measure 3 Policies and Procedures (MTC Resolution No. 4404); and

WHEREAS, BAIFA is an eligible sponsor of transportation project(s) in the Regional Measure 3 Expenditure Plan; and

WHEREAS, the Solano I-80 Express Lanes Project is eligible for consideration in the Regional Measure 3 Expenditure Plan, as identified in California Streets and Highways Code Section 30914.7(a) and programmed in Programming of Regional Measure 3 Capital Projects Sponsored or Co-Sponsored by MTC or BATA (MTC Resolution No. 4411); and

WHEREAS, the Regional Measure 3 LONP request, as set forth in attachments A, B, and C to this resolution, lists the project, purpose, schedule, budget, expenditure and cash flow plan

for which BAIFA is requesting that MTC issue an LONP for Regional Measure 3 funds; now, therefore, be it

<u>RESOLVED</u>, that BAIFA, and its agents shall comply with the provisions of the Metropolitan Transportation Commission's Regional Measure 3 Policies and Procedures; and be it further

<u>RESOLVED</u>, that BAIFA will fund the scope of work covered under the LONP with Bay Area Toll Authority Transit Core Capacity Challenge Grant Funds; and be it further

<u>RESOLVED</u>, that BAIFA proceeds with this scope of work at-risk, in the event that RM3 funds do not become available for allocation; and be it further

<u>RESOLVED</u>, that BAIFA will only be eligible for reimbursement for this scope of work from RM3 funds following an allocation by MTC, for expenses incurred following the date of the LONP approval; and be it further

<u>RESOLVED</u>, that BAIFA certifies that the project is consistent with the Regional Transportation Plan (RTP); and be it further

<u>RESOLVED</u>, that the year of funding for any design, right-of-way and/or construction phases has taken into consideration the time necessary to obtain environmental clearance and permitting approval for the project; and be it further

<u>RESOLVED</u>, that the Regional Measure 3 phase or segment is fully funded, and results in an operable and useable segment; and be it further

<u>RESOLVED</u>, that BAIFA approves the LONP request and updated Initial Project Report, as set forth in Attachments A and B to this resolution; and be it further

<u>RESOLVED</u>, that BAIFA approves the cash flow plan, as set forth in Attachment C to this resolution; and be it further

RESOLVED, that BAIFA has reviewed the project needs and has adequate staffing resources to deliver and complete the project within the schedule set forth in the LONP request and updated Initial Project Report, as set forth in Attachments A and B to this resolution; and, be it further

<u>RESOLVED</u>, that BAIFA is an eligible sponsor of projects in the Regional Measure 3 Expenditure Plan, in accordance with California Streets and Highways Code 30914.7(a); and be it further

RESOLVED, that BAIFA is authorized to submit an application for an LONP request for Regional Measure 3 funds for (project name) in accordance with California Streets and Highways Code 30914.7(a); and be it further

<u>RESOLVED</u>, that BAIFA certifies that the projects and purposes for which RM3 funds are being requested is in compliance with the requirements of the California Environmental Quality Act (Public Resources Code Section 21000 <u>et seq.</u>), and with the State Environmental Impact Report Guidelines (14 California Code of Regulations Section 15000 <u>et seq.</u>) and if relevant the National Environmental Policy Act (NEPA), 42 USC Section 4-1 et. seq. and the applicable regulations thereunder; and be it further

<u>RESOLVED</u>, that there is no legal impediment to BAIFA making LONP requests for Regional Measure 3 funds; and be it further

<u>RESOLVED</u>, that there is no pending or threatened litigation which might in any way adversely affect the proposed project, or the ability of BAIFA to deliver such project; and be it further

RESOLVED, that BAIFA shall indemnify and hold harmless MTC, BATA, their Commissioners, representatives, agents, and employees from and against all claims, injury, suits, demands, liability, losses, damages, and expenses, whether direct or indirect (including any and all costs and expenses in connection therewith), incurred by reason of any act or failure to act of BAIFA, its officers, employees or agents, or subcontractors or any of them in connection with its performance of services under this allocation of RM3 funds. BAIFA agrees at its own cost, expense, and risk, to defend any and all claims, actions, suits, or other legal proceedings brought

or instituted against MTC, BATA, and their Commissioners, officers, agents, and employees, or any of them, arising out of such act or omission, and to pay and satisfy any resulting judgments. In addition to any other remedy authorized by law, so much of the funding due under any future allocation of RM3 funds to this scope as shall reasonably be considered necessary by MTC may be retained until disposition has been made of any claim for damages, and be it further

RESOLVED, that BAIFA shall, if any revenues or profits from any non-governmental use of property (or project) that those revenues or profits shall be used exclusively for the public transportation services for which the project was initially approved, either for capital improvements or maintenance and operational costs, otherwise the Metropolitan Transportation Commission is entitled to a proportionate share equal to MTC's percentage participation in the projects(s); and be it further

RESOLVED, that assets purchased with RM3 funds including facilities and equipment shall be used for the public transportation uses intended, and should said facilities and equipment cease to be operated or maintained for their intended public transportation purposes for its useful life, that the Metropolitan Transportation Commission (MTC) shall be entitled to a present day value refund or credit (at MTC's option) based on MTC's share of the Fair Market Value of the said facilities and equipment at the time the public transportation uses ceased, which shall be paid back to MTC in the same proportion that Regional Measure 3 funds were originally used; and be it further

<u>RESOLVED</u>, that following an allocation of RM3 funds for this scope of work BAIFA shall post on both ends of the construction site(s) at least two signs visible to the public stating that the Project is funded with Regional Measure 3 Toll Revenues; and be it further

<u>RESOLVED</u>, that BAIFA authorizes its Executive Director, or her designee to execute and submit an LONP request for the construction phase with MTC for Regional Measure 3 funds in the amount of \$31,276,000, for the project, purposes and amounts included in the project application, as set forth in Attachments A, B and C to this resolution; and be it further

<u>RESOLVED</u>, that the Executive Director or her designee is hereby delegated the authority to make non-substantive changes or minor amendments to the LONP request, IPR, or Cash Flow, as set forth in Attachments A, B and C to this resolution, as she deems appropriate.

<u>RESOLVED</u>, that a copy of this resolution shall be transmitted to MTC in conjunction with the filing of the BAIFA application referenced herein.

BAY AREA INFRASTRUCTURE FINANC	ING
AUTHORITY	
Alfredo Pedroza Chair	

The above resolution was entered into by the Bay Area Infrastructure Financing Authority at a regular meeting of the Board held in San Francisco, California and at other remote locations, on July 28, 2021.



Regional Measure 3 LONP Request

SB 595 Project Information

Project Number	2
Project Title	Bay Area Corridor Express Lanes
Project Funding Amount	\$300,000,000

Subproject Information

Subproject Number	2.1
Subproject Title	I-80 Express Lanes in Solano County
Subproject Funding	\$101,700,000
Amount	

I. RM3 LONP Request Information

Describe the scope of the deliverable phase requested for LONP. Provide background and other details as necessary.

Delivery of the toll system and communications backhaul network for the Solano County I-80 Managed Lanes Project from Red Top Road to I-505.

Project phase being requested	CON
RM3 funding amount planned for this phase	\$31,276,000
Substitute funding source (if multiple, list amounts)	BATA Core Capacity Challenge Grant
Are there other fund sources involved in this phase?	⊠ Yes □ No
Date of anticipated Implementing Agency Board approval of RM3 IPR resolution for the allocation being requested	July 28, 2021

Attachment A BAIFA Res. No. 0023 Page 2 of 2 7/28/2021

Note: LONP requests are recommended to be submitted to MTC staff for review sixty (60) days prior to action by the Implementing Agency Board

Describe your plan for fully funding this project in the case that RM3 funding is not made available. This includes funding through construction if the LONP request is for an earlier phase.

BAIFA will work with local, regional, and State funding partners to determine the feasibility of funding the project from other sources of funding.

List any other planned bridge toll allocation requests in the next 12 months

None planned at this time.



Regional Measure 3 Initial Project Report Subproject Details

SB 595 Project Information

Project Number	2
Project Title	Bay Area Corridor Express Lanes
Project Funding Amount	\$300,000,000

Subproject Information

Subproject Number	2.1				
Subproject Title	80 Express Lanes in Solano County				
Subproject Funding	\$101,700,000				
Amount					

I. Overall Subproject Information

a. Subproject Sponsor / Co-sponsor(s) / Implementing Agency

Solano Transportation Authority (STA) is the project sponsor and implementing agency in partnership with BAIFA and Caltrans.

b. Detailed Subproject Description (include definition of deliverable segment if different from subproject)

The proposed project will construct managed lanes on westbound and eastbound I-80 to reduce public transit travel times, increase vehicle and passenger throughput, and decrease congestion. From Red Top Road to just east of Air Base Parkway, the project will convert the existing high-occupancy vehicle (HOV) lanes to express lanes. From just east of Air Base Parkway to east of I-505, the project will widen I-80 to accommodate managed lanes. The project will install static and dynamic overhead signs, electronic tolling equipment, median lighting, toll collection subsystems, electrical and communication conduits, and traffic control devices. The project will also extend an existing multiuse (Class I) trail across I-80 at Ulatis Creek. The project corridor is approximately 18 miles.

Attachment B BAIFA Res. No. 0023 Page 2 of 5 7/28/2021

c. Impediments to Subproject Completion

Several BAIFA contracts, including the that of the toll system integrator, are existing contracts that are not federalized. Should BAIFA be required to use federal funds, these contracts would be required to be federalized or may be required to be reprocured.

d. Risk Management (describe risk management process for project budget and schedule, levels of contingency and how they were determined, and risk assessment tools used)

BAIFA manages risk at both the program and contract level by identifying risks that could negatively impact the program's cost and schedule, and assigning responsibility to the person best positioned to manage each risk. Risks managed at the contract level are associated with contingency funding authorized by BAIFA for specific contracts. Risks managed at the program level would draw upon the program contingency line item in the Express Lanes Expenditure Plan. Staff regularly review the risk exposure and mitigation plans at both the contract and program level

e. Operability (describe entities responsible for operating and maintaining project once completed/implemented)

BAIFA will be responsible for operating and maintaining the toll system equipment and fiber communications backhaul network. BAIFA and the California Department of Transportation (Caltrans) share responsibility for civil roadway maintenance as outlined in their cooperative agreement.

f. Project Graphic(s) (include below or attach)



Attachment B BAIFA Res. No. 0023 Page 3 of 5 7/28/2021

II. Subproject Phase Description and Status

a. Environmental/Planning

Does NEPA apply? Yes ⊠ No□

The environmental document, an Mitigated Negative Declaration/Finding of No Significant Impact (ND/FONSI), for the SOL I-80 Managed Lanes Project was approved in December 2015. Caltrans is the CEQA and NEPA lead agency for this project.

b. Design

Final Design was essentially completed for the SOL I-80 Managed Lanes in spring 2018 and put on the shelf, awaiting funding for construction. The Plans, Specifications, and Estimate and Permits are being updated and Ready to List (RTL) is scheduled for July 2021.

c. Right-of-Way Activities / Acquisition

Complete

d. Construction / Vehicle Acquisition / Operating

The civil construction is scheduled to be Ready to List by Caltrans in July 2021.

III. Subproject Schedule

Phase-Milestone	Planned			
Thuse Milestone	Start Date	Completion Date		
Environmental Studies, Preliminary Eng. (ENV / PE / PA&ED)	Jan 2011	Dec 2015		
Final Design - Plans, Specs. & Estimates (PS&E)	Jan 2016 Jun 2021			
Right-of-Way Activities /Acquisition (R/W)	Jan 2017	Apr 2021		
Construction (Begin – Open for Use) / Acquisition (CON)	Sep 2021	Dec 2024		

Attachment B BAIFA Res. No. 0023 Page 4 of 5 7/28/2021

IV. Subproject Budget

Capital

Subproject Budget	Total Amount - Escalated to Year of Expenditure (YOE)- (Thousands)
Environmental Studies & Preliminary Eng (ENV / PE / PA&ED)	\$10,900
Design - Plans, Specifications and Estimates (PS&E)	\$23,500
Right-of-Way Activities /Acquisition (R/W)	\$3,200
Construction / Rolling Stock Acquisition (CON)	\$245,000
Total Project Budget (in thousands)	\$282,600

Deliverable Segment Budget (if different from subproject budget)	Total Amount - Escalated to Year of Expenditure (YOE)- (Thousands)	
Environmental Studies & Preliminary Eng (ENV / PE / PA&ED)		
Design - Plans, Specifications and Estimates (PS&E)		
Right-of-Way Activities /Acquisition (R/W)		
Construction / Rolling Stock Acquisition (CON)	\$31,276	
Total Project Budget (in thousands)	\$31,276	

	Total Amount
	- Escalated to
Operating	Year of Expenditure (YOE)-
Operating	(Thousands)
Annual Operating Budget	N/A

Attachment B BAIFA Res. No. 0023 Page 5 of 5 7/28/2021

V. Subproject Funding

Please provide a detailed funding plan in the Excel portion of the IPR. Use this section for additional detail or narrative as needed and to describe plans for any "To Be Determined" funding sources, including phase and year needed.

Excel Attachment Included ⊠

VI. Contact/Preparation Information

Contact for Project Sponsor

Name: Janet Adams

Title: Deputy Executive Director/Director of Projects

Phone: (707) 434-6010 Email: jadams@sta.ca.gov

Mailing Address: One Harbor Center, Suite 130, Suisun City, CA 94585

Person Preparing Initial Project Report (if different from above)

Name: Stephen Wolf

Title: Assistant Director, Bay Area Infrastructure Finance Authority

Phone: 415-778-5368

Email: swolf@bayareametro.gov

Mailing Address: 375 Beale St, Ste. 800, SF, CA 94105

Regional Measure 3 Intitial Project Report - Subproject Report Funding Plan

Project Title:		
Subproject Title	Sol I-80 Express Lanes	
Project/Subproject Number:	2.1	
Total RM3 Funding:	\$ 101,7	00

(add rows as necessary)

		Committed?		al Amount	Amount Expended	Amount Remaining	
Funding Source	Phase	(Yes/No)	(\$ t	housands)	(\$ thousands)	(\$	thousands)
	ENV					\$	=
Bridge Tolls		Yes	\$	10,900		\$	10,900
						\$	-
						\$	-
						\$	-
						\$	-
ENV Subtotal			\$	10,900	\$ -	\$	10,900
	PSE					\$	-
Bridge Tolls		Yes	\$	3,570		\$	3,570
BAIFA		Yes	\$	14,830		\$	14,830
Federal and State		Yes	\$	5,100		\$	5,100
						\$	-
						\$	-
PSE Subtotal	· ·		\$	23,500	\$ -	\$	23,500
	ROW					\$	-
BAIFA		Yes	\$	3,200		\$	3,200
						\$	-
						\$	-
						\$	-
						\$	-
ROW Subtotal			\$	3,200	\$ -	\$	3,200
	CON					\$	-
Federal and State		Yes	\$	96,600		\$	96,600
SB1 (TCEP)		Yes	\$	123,400		\$	123,400
STIP		Yes	\$	17,300		\$	17,300
BAIFA		Yes	\$	7,724		\$	7,724
						\$	-
						\$	-
						\$	-
·						\$	-
						\$	-
·						\$	-
CON Subtotal			\$	245,024	\$ -	\$	245,024
Capital Funding Total		\$	282,624	\$ -	\$	282,624	

OPERATING FUNDING (Annual)

		Committed?	Total Amount
Funding Source	Phase	(Yes/No)	(\$ thousands)
	Operating		
N/A			
Operating Funding Total			\$ -

ash Flow for RM3 Allocation Request for Construction Phase for the I-80 Managed Lanes Projection

	2021	2022			2023				2024			TOTAL	
	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June	July-Sept	TOTAL
I-80 Managed Lanes - Construction Phase	\$ 4,946	\$ 9,891	\$ 19,782	\$ 19,782	\$ 34,071	\$ 34,071	\$ 34,071	\$ 34,071	\$ 19,782	\$ 19,782	\$ 9,891	\$ 4,946	\$ 245,086

	FY22	FY23	FY24	FY25	TOTAL
BAIFA Deliverable Segment	\$2,294	\$15.809	\$10.976	\$2.621	\$31,700



Metropolitan Transportation Commission

Legislation Details (With Text)

File #: 21-0960 Version: 1 Name:

Type: Contract Status: Authority Approval

File created: 6/21/2021 In control: Bay Area Infrastructure Financing Authority

On agenda: 7/28/2021 Final action:

Title: Contract Change Order - Express Lane Toll System Integrator (TSI): TransCore, LP (\$23,568,508 and

a contingency of \$2,356,851)

A request for approval to enter into a contract change order with TransCore, LP (TransCore) to: 1) add

options to extend the current contract with TransCore in annual increments of up to three (3)

additional years on a sole source basis; and 2) add the toll system implementation for the Solano I-80

express lane between Fairfield and Vacaville in an amount not to exceed \$23,568,508 plus a

contingency of \$2,356,851.

Sponsors:

Indexes:

Code sections:

Attachments: 3b - 21-0960 - Contract Change Order TransCore LP.pdf

3b - 21-0960 - Contract Change Order TransCore LP Presentation.pdf

Date Ver. Action By Action Result

Subject:

Contract Change Order - Express Lane Toll System Integrator (TSI): TransCore, LP (\$23,568,508 and a contingency of \$2,356,851)

A request for approval to enter into a contract change order with TransCore, LP (TransCore) to: 1) add options to extend the current contract with TransCore in annual increments

of up to three (3) additional years on a sole source basis; and 2) add the toll system implementation for the Solano I-80 express lane between Fairfield and Vacaville in an amount not to exceed \$23,568,508 plus a contingency of

\$2,356,851.

Presenter:

Ken Hoang

Recommended Action:

Authority Approval

Bay Area Infrastructure Financing Authority (BAIFA)

July 28, 2021

Agenda Item 3b - 21-0960

Contract Change Order – Express Lane Toll System Integrator (TSI): TransCore, LP (\$23,568,508 and a contingency of \$2,356,851)

Subject:

A request for approval to enter into a contract change order with TransCore, LP (TransCore) to: 1) add options to extend the current contract with TransCore in annual increments of up to three (3) additional years on a sole source basis and 2) add the toll system implementation for the Solano I-80 express lane between Fairfield and Vacaville in an amount not to exceed \$23,568,508 plus a contingency of \$2,356,851.

Background:

In June 2014, BAIFA approved staff's recommendation to award an Express Lane Toll System Integrator (TSI) contract to TransCore to provide toll system design, integration, and maintenance services for BAIFA's express lane corridors. Staff executed a contract with TransCore later that year. The contract established an initial term of five years in an amount not to exceed \$54,659,546 plus a contingency of \$8,340,454.

The procurement allowed for options to extend in annual increments with a final completion in June 2024 subject to the annual budgetary approval processes and BAIFA approval of contract amendments. In the original procurement, BAIFA expected to deliver three (3) express lanes corridors by the end of 2017: I-680 in Contra Costa County, I-880 in Alameda County, and I-80 in Solano County; only the southern segment of I-680 opened in that timeframe. I-880 express lanes opened in 2020, while the I-80 project in Solano County between Fairfield and Vacaville was put on hold in 2018 due to lack of funding. In 2021, the project sponsor, Solano Transportation Authority (STA), was successful in obtaining Senate Bill 1 (SB1) funds and expects to receive a Letter of No Prejudice (LONP) from MTC to swap Regional Measure 3 bridge toll funds with other federal and local funds. SB1 funds came with STA's commitment to deliver the project by the end of 2024; to make this deadline, BAIFA must use its current integrator, TransCore, as originally intended in BAIFA's 2014 TSI procurement. BAIFA is also seeking an LONP from MTC related to this project, as reflected in agenda item 3a of this month's BAIFA meeting.

Concurrent with the negotiation of the cost to deploy the I-80 project, staff has negotiated terms for an extension of the TSI contract for operations and maintenance beyond June 2024, subject to authorization by BAIFA. Whereas the industry standard for the useful life of toll equipment is estimated to be seven years, the extended timeline for delivering the BAIFA express lane corridors will cause the contract to expire with several years remaining useful life on each corridor, as indicated in Table A of Attachment B.

Staff negotiated annual O&M rates for three additional one-year options, which, if exercised, would extend the contract to June 2027. Staff is working on a TSI procurement coinciding with this timeframe for implementation of the next generation of toll systems. The O&M cost has two components: the fixed cost for routine maintenance and operations of the toll host system, software, and field equipment; and a variable cost based on the number of transactions requiring manual image review of license plates (i.e., for transactions where there is no toll tag read and the optical character recognition is not sufficient). The negotiated rates are estimated as shown in Table B of Attachment A, derived from the terms and escalation clause in the current contract. The final rates depend largely on the go-live dates for Solano 80 and San Mateo 101 (SM 101), escalation tied to the consumer price index (capped at 5%), and the actual quantity of manually reviewed images. BAIFA will operate and maintain the San Mateo 101 lanes on a reimbursed basis for San Mateo County Express Lanes Joint Powers Authority (SMCELJPA), and these figures are shown separately in Table B. Staff will return to the Authority for funding approval related to the three additional one-year options.

The negotiations have resulted in a global proposal as presented in this item; the pricing of Solano I-80 is dependent on approving three one-year options with the price structure in Table B of Attachment B. The contingency is based on ten percent (10%) of the Solano I-80 toll system implementation cost.

Attachment A includes a summary of TransCore and its project team's small business and disadvantaged business enterprise status.

Issues:

The TransCore contract is not federalized, and the funding plan assumes annual swaps of federal Surface Transportation Program (STP) funds with local funds for implementation of the Solano I-80 express lanes. MTC and AC Transit have an agreement in principle to swap STP funds committed to the Solano I-80 project with BATA Core Capacity Challenge Grant funds on an annual basis.

Recommendation:

Staff recommends the Authority authorize the Executive Director or designee to negotiate and enter into a contract change order with TransCore to 1) add options to extend the current contract with TransCore in annual increments of up to three (3) additional years on a sole source basis and 2) add the toll system implementation for the Solano I-80 express lane between Fairfield and Vacaville in an amount not to exceed \$23,568,508 plus a contingency of \$2,356,851, subject to annual budgetary approval processes.

Attachments: Attachment A: TransCore, LP DBE and SBE Status; and

Attachment B: Tables

Request for Authority Approval – Summary of Proposed Contract Change

Order

Therese W. McMillan

Attachment A

Small Business and Disadvantaged Business Enterprise Status

]	DBE* Firm		S	BE** Firm	1
	Firm Name	Role on Project	Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	TransCore, LP	Toll System Integrator			X			X
Subcontractor	IBI Group	Subcontractor			X			X
Subcontractor	KRC Safety	Subcontractor	X	447		X	6897	
Subcontractor	Lane Safety Co.	Subcontractor			X	X	45978	
Subcontractor	Nexus IS	Subcontractor			X			X
Subcontractor	TJKM	Subcontractor	X	40772		X	38780	
Subcontractor	Traffic Solutions	Subcontractor			X			X

^{*}Denotes certification by the California Unified Certification Program (CUCP).

^{**}Denotes certification by the State of California.

Attachment B

Tables

Toll E	Toll Equipment Useful Life (calendar year)													
2017	2018	2019	2020	2021	2022	2023	2024*	2025	2026	2027	2028	2029	2030	2031
C	Contra (Costa (CC) I-6	80 [201	17-2023	3]								
				Alameda I-880 [2020-2026]										
				Co	Contra Costa I-680 Extension [2017-2023]									
					San Mateo US 101 [2022-2028]									
		·			Solano I-80 [2025-2031]						·			

^{*} Maximum term of existing Toll System Integrator contract is through June 30, 2024.

Table A: Toll equipment useful life

		ting & nce (O&M)		II Image w (MIR)	Total		
Fiscal Year	BAIFA	SM 101	BAIFA	SM 101	BAIFA	SM 101	
FY 23*	\$3.6	\$1.5	\$2.1	\$2.1	\$5.7	\$3.6	
FY 24*	\$3.8	\$1.6	\$2.2	\$2.2	\$6.0	\$3.8	
FY 25**	\$3.9	\$1.7	\$4.4	\$2.3	\$8.3	\$4.0	
FY 26**	\$5.0	\$1.8	\$4.6	\$2.4	\$9.6	\$4.2	
FY 27**	\$5.2	\$1.9	\$4.9	\$2.6	\$10.1	\$4.5	
Total FY25-27	\$14.1	\$5.4	\$13.9	\$7.3	\$28.0	\$12.7	

Table B: Estimated operating and maintenance costs for proposed extension (in millions)

^{*}Within existing eligible contract term.

**Sole source extension presented in this item.

REQUEST FOR AUTHORITY APPROVAL

Summary of Proposed Contract Change Order

Work Item No.: 6849

Contractor: TransCore, LP

San Diego, CA

Work Project Title: Regional Express Lane Toll System Integrator (TSI)

Purpose of Project: Design, implement, and operate express lanes in the Bay Area

Brief Scope of Work: The contract change order will authorize TSI for work related to roadside

equipment, installation, and testing of the toll system for Solano I-80, and three one-year options, which, if exercised, would extend the contract with the TSI to provide ongoing operations and maintenance through

fiscal year FY 2026-27.

Project Cost Not to Exceed: This amendment: \$23,568,508 plus a contingency of \$2,356,851

Current contract amount before this amendment: \$103,914,467 plus a

remaining contingency of \$966,769

Total contract amount after this amendment: \$127,482,975 plus a

contingency of \$3,323,620

Funding Source: BAIFA Operating and Capital Budget Funds

Fiscal Impact: Funding for Solano I-80 is subject to adoption of annual BAIFA

Operating and Capital Budgets, with an estimated fiscal year

breakdown as follows:

Fiscal Year 2021-22 = \$639,790

Fiscal Year 2022-23 = \$16,052,197

Fiscal Year 2023-24 = \$7,268,261

Fiscal Year 2024-25 = \$1,965,111

Funding for the extension of operations and maintenance is subject to Authority approval, and the adoption of the BAIFA Operating and Capital Budgets in FY 2024-25, FY 2025-26, and FY 2026-27.

Motion by Authority: That the Executive Director or designee is authorized to negotiate and

enter into a Contract Change Order with TransCore, LP for the services as described above and in the BAIFA Summary Sheet dated July 21, 2021, and the Chief Financial Officer is authorized to set aside funds in

the amount of \$23,568,508 plus an additional contingency of \$2,356,851 for such Contract Change Order, subject to the approval of future Operating and Capital Budgets, as specified above.

BAIFA:		
	Alfredo Pedroza, Chair	
Approved:	July 28, 2021	

Express Lanes: Solano I-80 Deployment & System Maintenance Extension

BAIFA July 28, 2021



BAY AREA **EXPRESS LANES**





Overview

- Solano I-80 Implementation
 Negotiated cost and schedule
- → Sole Source Operations & Maintenance Extension

 Logistical and financial reasons foextending TransCore's contract beyon2023



TransCore Milestones: Originally Expected versus A



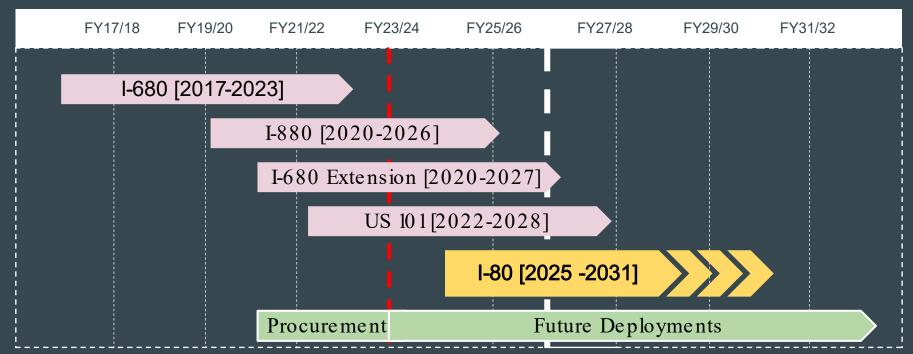
April 2016 March 2017

I-680 I-880

Expected Opening Expected Opening



Toll Equipment Useful Life



Current Contract End

Proposed Contract End



DELIVERING SOLANOI-80 TOLLSYSTEM

- → In original TransCore procurement and contract
- → End of 2024 Delivery Commitment
- → Cost Negotiated \$30m → \$23m
- → Bundled w/ Maintenance Extension



Extension of Operations & Maintenance

- → Existing maintenance contract has options to FY 2024
- → Staff recommend sole source extension for three (3) additional years (to FY 2027)

Estimated Cost

Cost Category	FY 25	FY 26	FY 27	TOTAL
FIXED: Operations & Maintenance (O&M)	\$6M	\$7M	\$7M	\$20M
VARIABLE: Manual Image Review (MIR)	\$7M	\$7M	\$7M	\$21M
Total	\$ 13 M	\$ 14 M	\$ 14 M	\$41M

- → Subject to actual opening dates and CPI adjustments
- → Figures include SM 101



JulyBAIFA Recommendation



Contract with
TransCore to
Implement I-80
Solano
Express Lanes

Approve three oneyear options to Extend O&M on a sole source basis (to FY2027)





Metropolitan Transportation Commission

Legislation Details (With Text)

File #: 21-0930 Version: 1 Name:

Type: Report Status: Informational

File created: 6/15/2021 In control: Bay Area Infrastructure Financing Authority

On agenda: 7/28/2021 Final action:

Title: I-880 Express Lanes Performance and MTC Express Lanes Quarterly Report: First Quarter (January -

March 2021)

A presentation on early operations of the I-880 Express Lanes and a report on capital project delivery progress for MTC Express Lanes and performance of MTC's I-680 Contra Costa and I-880 express

lanes.

Sponsors:

Indexes:

Code sections:

Attachments: 4a - 21-0930 - MTC EL Quarterly Report Q1 2021.pdf

4a - 21-0930 - MTC EL Quarterly Report Q1 2021 Presentation.pdf

Date Ver. Action By Action Result

Subject:

I-880 Express Lanes Performance and MTC Express Lanes Quarterly Report: First Quarter (January - March 2021)

A presentation on early operations of the I-880 Express Lanes and a report on capital project delivery progress for MTC Express Lanes and performance of MTC's I-680 Contra Costa

and I-880 express lanes.

Presenter:

Barbara Laurenson

Recommended Action:

Information

Bay Area Infrastructure Financing Authority (BAIFA)

July 28, 2021

Agenda Item 4a - 21-0930

I-880 Express Lanes Performance and MTC Express Lanes Quarterly Report: First Quarter (January - March 2021)

Subject:

A presentation on early operations of the I-880 Express Lanes and a report on capital project delivery progress for MTC Express Lanes and performance of MTC's I-680 Contra Costa and I-880 express lanes.

Background:

The I-880 Express Lanes opened October 2020, and staff will present on the operational performance from the first six months (through March 2021). See Attachment A. In addition, MTC issues an Express Lanes Program report quarterly that summarizes major developments, project schedules and risks, and compares forecast costs with BAIFA's Express Lanes Program Expenditure Plan. The report also documents operational performance of BAIFA's open express lanes. This report is included as Attachment B.

Express Lanes Operations – Project performance for BAIFA's I-680 Contra Costa Southern Segment Express Lanes and I-880 Express Lanes is highlighted in Table 1. More detailed statistics and commentary are included in Appendices C and D of the attached report.

- The I-880 express lanes are providing a faster, more reliable trip for carpools and buses. This is demonstrated by data comparing I-880 performance from August 2020 (before the start of tolling) with March 2021. Speeds in the managed lanes have improved since tolling began and are faster than general purpose lane speeds. As expected, some vehicles have shifted from the managed lane to the general purpose lanes, thereby improving reliability of the managed lane, but vehicle throughput in the corridor has been maintained. Staff will continue to monitor performance of the lanes as traffic returns.
- Usage and tolling statistics for I-680 Contra Costa continue to reflect a slow recovery from the COVID-19 emergency and related traffic decline.
- I-880 has about twice as many tolled lane miles as I-680 Contra Costa but collected four times as much revenue during the first quarter of 2021 due to more traffic and demand on I-880.
- The opening of I-880 introduced half-price tolls for Clean Air Vehicles (CAVs) with a FasTrak ® CAV toll tag on both of BAIFA's express lanes; all CAV trips represented about 0.1% of all express lane trips on I-680 Contra Costa and about 0.6% of trips on I-880.
- The percentage of trips by vehicles without FasTrak® accounts was high, which is common for new toll facilities while drivers become familiar. MTC staff is planning in-corridor messages and an advertising campaign in partnership with FasTrak® to reinforce the requirement to have FasTrak® to use express lanes.
- As expected, there is work to do to encourage the correct use of toll tags and to combat cheating. Staff's presentation will speak to steps underway to address these issues.

Table 1: BAIFA Express Lanes Operations Q1 CY2021 Snapshot

	I-680 Contra Costa				I-880	
Statistic	Q1 2020	Q1 2021	Change	Q1 2020 ¹	Q1 2021	Change
Total Trips	1.58m	1.22m	-23%	n/a	2.60m	n/a
Toll-Free Trips	46%	37%	-9%	n/a	24%	n/a
Half-Toll Trips	n/a^2	<<1%	n/a	n/a	9%	n/a
Full-Toll Trips	49%	52%	3%	n/a	49%	n/a
Violation Trips	5%	11%	6%	n/a	17%	n/a
CHP	1,070	723	-32%	n/a	1,832	n/a
Enforcement						
Contacts						
Toll Revenue ³	\$2.6m	\$1.0m	-63%	n/a	\$4.4m	n/a

¹I-880 did not open until October 2, 2020

Express Lanes Capital Delivery – Project activity is highlighted below (see *Section I. Program Highlights* and *Section III. Capital Delivery* of the attached report for more detail).

- I-680 Contra Costa Northern Segment Southbound: The future express lane segment opened as HOV 2+ on August 24, 2020. The toll system integrator is connecting toll system sites to the backhaul and continues to test the toll system. Tolling is anticipated to start August 20, 2021, in-line with the prior quarter forecast.
- I-80 Solano: Construction is estimated to begin mid-2021. In the reported quarter, BAIFA and the Solano Transportation Authority continued preparing for construction, including revalidating the environmental clearance, updating design documents, and confirming the original design for fiber and network equipment. BAIFA negotiated terms with the toll system integrator to deliver the toll system.

Issues: None

Recommendation: This item is provided for information only.

Attachments: BAIFA Express Lanes Performance Presentation

MTC Express Lanes Quarterly Report: First Quarter, January-March 2021

Dulle What I

²CAVs were not required to pay a half-toll until October 2, 2020 and HOV2 is toll-free ³Excludes violation penalties



BAY AREA **EXPRESS LANES**



MTC Express Lanes Quarterly Report 1st Quarter, January - March, 2021

Submitted: July 2021





TABLE OF CONTENTS

I.	Program Highlights	1
II.	Program Overview	3
	A. Program Description	3
	B. Operating Authority	4
	C. MTC Express Lane Project Funding	5
III.	Capital Delivery	6
	A. Schedule	6
	B. Capital Costs	7
	C. Change Management	8
	D. Risk Management Plan	8
	E. Active Capital Project Summaries	10
IV.	Operations	16
	Appendices	A-1
	A. Express Lanes Overview	A-2
	B. Completed Capital Project Summaries	A-5
	C. I-680 Contra Costa Express Lanes Operations Report	A-9
	D.I-880 Alameda Express Lanes Operations Report	A-33

I. PROGRAM HIGHLIGHTS

The purpose of this report is to summarize the progress of delivering Metropolitan Transportation Commission (MTC) Express Lanes. The report covers the first quarter of 2021, January 1 to March 31.

The California Transportation Commission (CTC) approved MTC's application to implement and operate its 270-mile express lane network on October 27, 2011. Soon thereafter, work began to environmentally clear the first phase of express lane conversion projects and produce a Concept of Operations describing how the Express Lanes will operate. The first of MTC's express lanes opened in October 2017 on I-680 in Contra Costa County and the second opened in October 2020 on I-880 in Alameda County. Several additional projects are at varying stages of development.

Project Development & Construction	1st Quarter CY2021 Highlights	Current Activities
I-880 Alameda (ALA-880) San Leandro to Milpitas Hegenberger Road/Lewelling Boulevard to Dixon Landing Road	See Appendix D for performance highlights.	Project complete; see Appendix B for archived summary.
I-680 Contra Costa Southern Segment (CC-680 South) Walnut Creek to San Ramon Livorna Road/Rudgear Road to Alcosta Boulevard	See Appendix C for performance highlights.	 Project complete; see Appendix B for archived summary.
I-680 Contra Costa Northern Segment Southbound (CC-680 North SB) Martinez to Walnut Creek Marina Vista Boulevard to Rudgear Road/SR 242	Civil construction was substantially complete for all stages of contract work as of December 2020.	 Civil contractor is addressing punchlist items; only minor items at a limited number of locations remain. The toll system integrator will pull cable to energize and test two pricing signs recently installed north of Highway 24. The toll system integrator will begin Site Commission Testing, starting with the north most toll tag read point near the Benicia Bridge. Since completing repairs of the Backhaul fiber, the toll system integrator has begun connecting toll sites north of SR-24 into the Backhaul trunkline.
I-80 Solano (SOL-80) Fairfield to Vacaville Red Top Road to I-505	Transportation Authority (STA) to prepare for construction.	 STA will revalidate the environmental clearance approval. BAIFA is coordinating with STA to update design documents. BAIFA is coordinating on funding strategies to backfill Regional Measure 3 Express Lane Program, to be reported in next quarterly report. BAIFA is negotiating terms for delivery of the toll system with the Toll System Integrator. Staff is re-engaging with AT&T to confirm the original design for fiber and network equipment.

Bay Area Infrastructure Financing Authority

Project Development & Construction	1st Quarter CY2021 Highlights	Current Activities
Program Management	 Staff held internal technical discussions to develop a draft design concept for how the FasTrak START Pilot, which will provide a means-based toll discount to low-income drivers on BAIFA's I-880 Express Lanes, could operate. 	 Staff will finalize the customer education strategy for the start of tolling on I-680 North Southbound. Staff will get feedback from stakeholders on the draft concept for the FasTrak START Pilot. Staff will convene focus groups with potential pilot customers.
Toll System	 The toll system integrator fine-tuned the toll system in preparation for I-880 operational acceptance. 	 The toll system integrator continues to fine- tune the toll system in preparation for I-880 operational acceptance.

II. PROGRAM OVERVIEW

A. Program Description

MTC and partner agencies are implementing a regional network of express lanes called Bay Area Express Lanes. Upon completion, Bay Area Express Lanes will comprise 600 miles of express lanes operated by MTC, the Valley Transportation Authority (VTA), the Alameda County Transportation Commission (Alameda CTC), the Sunol Smart Corridors Joint Powers Authority (Sunol JPA), and the San Mateo County Express Lanes Joint Powers Authority (San Mateo JPA).

Primary objectives for Bay Area Express Lanes include:

- Create a seamless network of HOV lanes to encourage carpools, vanpools and express buses:
- Make the best use of HOV lane capacity:
- Provide reliable travel times for solo drivers;
 and
- Better manage all lanes to keep traffic moving.

MTC's portion of the Bay Area Express Lanes, referred to as MTC Express Lanes, will include 270 miles of express lanes — 150 miles of converted high occupancy vehicle (HOV) lanes and 120 miles of new lanes — on I-80 in Alameda, Contra Costa and Solano Counties; I-880 in Alameda County; I-680 in Contra Costa and Solano counties; and the westbound approaches to the Bay Bridge, San Mateo Bridge and Dumbarton Bridge. In addition, MTC will operate 45 miles of new and converted lanes on US-101 in San Mateo County for the San Mateo JPA, and perform certain operations activities on the I-580 and I-680 express lanes in Alameda County for the Alameda County Transportation Commission.

Appendix A includes an overview of how express lanes operate.

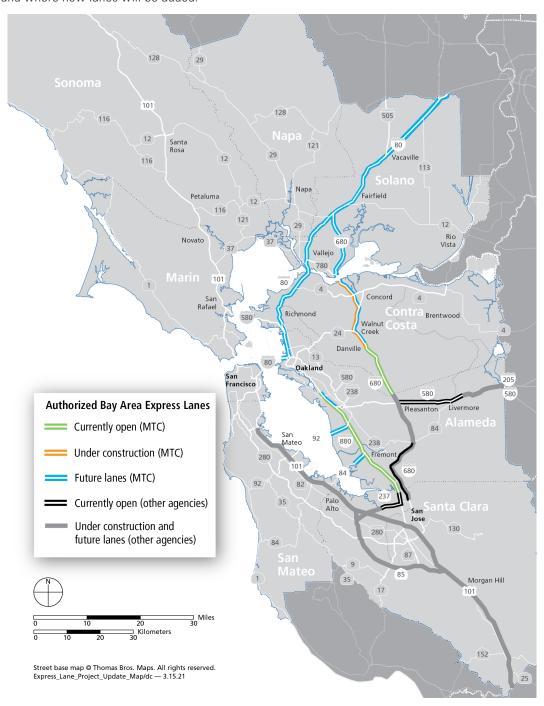


Map of Authorized Bay Area Express Lanes Network

B. Operating Authority

MTC and the Bay Area Toll Authority (BATA) have formed a joint powers authority to develop and operate MTC Express Lanes. The joint powers authority, known as the Bay Area Infrastructure Financing Authority (BAIFA), is composed primarily of representatives of the three counties where the express lanes are located: Alameda, Contra Costa and Solano. BAIFA is responsible for policy and operational decisions such as toll rates, project phasing and use of revenue. BAIFA will also operate the toll system on US-101 in San Mateo County under contract to San Mateo County transportation agencies, which are responsible for project delivery, operational policy and use of revenue.

The map below highlights MTC's portion of state-authorized Bay Area Express Lanes and shows where lanes will be converted from HOV lanes and where new lanes will be added.



C. MTC Express Lane Project Funding

MTC is using existing funding to convert existing HOV lanes to express lanes and to conduct environmental studies and design on some gap closure projects, so they are "shelf-ready" should construction funding become available. This will allow MTC to open as much of its 270-mile network as quickly as possible.

The table below lists the projects that comprise MTC Express Lanes according to current funding status.

County	Route	Project	Geographical Limits	Miles	Environmental	Design	Construction
NEAR-TI	ERM CON\	ERSIONS AND GAP CLOSURE	OPPORTUNITY PROJECTS				
ALA	880	I-880 Alameda	Between San Leandro and Milpitas Hegenberger Rd./Lewelling Blvd. to Dixon	51	•	•	•
ALA	000	1-000 Aldilleud	Landing Rd.	JΙ	Project o	complet	ed 2020
CC	680	I-680 Contra Costa	Between Walnut Creek and San Ramon	23	•	•	•
CC	000	Southern Segment	Livorna Rd./Rudgear Rd. to Alcosta Blvd.	23	Project d	complet	ed 2017
CC	680	I-680 Contra Costa Northern Segment	Martinez to Walnut Creek	11	•		•
00	000	Southbound	Marina Vista Blvd. to Rudgear Rd.	''			· ·
SOL	80	I-80 Solano	Fairfield to Vacaville	36	•	•	•
OOL	00	1 00 dolullo	Red Top Rd. to I-505	00		_	
MID-TER	RM CONVE	RSIONS AND GAP CLOSURE O	PPORTUNITY PROJECTS				
ALA/ CC	80	I-80 and Westbound Approaches to the Bay Bridge	Between Crockett and Bay Bridge Cummings Skyway to Bay Bridge; I-80, I-580, I-880 and West Grand approaches to Bay Bridge	44	•	0	0
ALA/		Dumbarton Bridge	Fremont/Newark				
SM	84	Western Approach	I-880 to Dumbarton Bridge	3	•	0	0
ALA/	92	San Mateo Bridge	Hayward	3	•	0	0
SM		Westbound Approach	I-880 to San Mateo Bridge				
CC	680	I-680 Contra Costa Northbound Express Lane	Walnut Creek to Benicia North Main St. to Marina Vista Blvd.	9	•	0	0
		Completion					
KEY							
•	Funded	◆ Partially Funded ○ Unfur	ded ALA = Alameda, CC = Contra	Costa, SN	1 = San Mateo,	SOL = 5	Solano

III. CAPITAL DELIVERY

A. Schedule

The schedule summary below reflects the "open to traffic" dates of the original "baseline" schedule, and the current completion forecast for the projects that are fully funded.

Project	Baseline Opening	Forecast Opening	Confidence Level	Detail Page
I-880 Alameda (ALA-880) San Leandro and Milpitas Hegenberger Rd./Lewelling Blvd. to Dixon Landing Rd.	Spring 2019	Fall 2020 Actual	•	A-7
I-680 Contra Costa Southern Segment (CC-680 South) Walnut Creek and San Ramon Livorna Rd./Rudgear Rd. to Alcosta Blvd.	Fall 2016	Fall 2017 Actual	•	A-5
I-680 Contra Costa Northern Segment Southbound (CC-680 North SB) Martinez to Walnut Creek Marina Vista Blvd. to Rudgear Rd.	Fall 2018	Mid-2021	•	13

KEY

- Within schedule shown.
- ldentified potential risks that may significantly impact schedule if not mitigated. See Section III.D Risk Management Plan for further discussion of schedule risk.
- Known impact to schedule, changes forthcoming.

B. Capital Costs

The cost summary below shows: 1) the costs of each express lane [corridor or segment] including planning, design and construction of the civil infrastructure, and installation and integration of the backhaul communications and toll system, and 2) program-wide costs including planning and design, and implementation of centralized elements of the backhaul network and toll system. The total cost estimate includes the full estimated cost to complete MTC Express Lanes. The approved Expenditure Plan fully funds the first three projects listed below, the environmental and design phases for the I-80 projects in Solano County, and the environmental phase for the westbound approaches to the San Mateo and Dumbarton Bridges. MTC's Finance Section reports financial information to BAIFA about one quarter in arrears, which does not fit with the production timeline for this Quarterly Report. As a result, the expended-as-of amounts shown below represent the unaudited amount of BATA Express Lane funds expended through the previously reported quarter; percent complete amounts are reported through the previously reported quarter for consistency. The confidence level assessment reflects potential risks to each project budget; for more information, see Section III.D Risk Management Plan.

	T-t-10t	Cost	Regional	Other	BAIFA	Express Lane F	unds ⁽⁴⁾	Percent	0
Project ⁽¹⁾	Total Cost Estimate ⁽²⁾	Estimate, Funded Phases ⁽³⁾	Measure 2 Funds (allocated)	Funding (allocated)	July 2018 Amendment	Sept. 2018 Amendment	Expended as of 12/31/20	Complete as of 12/31/20 ⁽⁵⁾	Confidence Level ⁽⁶⁾
NEAR-TERM CONVERSIONS AND GA	P CLOSURE C	PPORTUNITY	PROJECTS				Costs shown i	in millions of es	calated dollars
I-880 Alameda	139.1	139.1			135.5	139.1	124.6	99%	•
I-680 Contra Costa Southern Segment	54.0	54.0			55.6	54.0	52.5	99%	•
I-680 Contra Costa Northern Segment Southbound (7)	127.4	127.4	19.4	54.3	51.3	53.6	39.2	90%	•
I-80 Solano	274.9	32.5	14.4		19.0	18.1	11.7	20%	•
Centralized Toll System	32.4	32.4			33.6	32.4	24.2	95%	•
Program Planning, Coordination & Management	28.4	28.4			28.4	28.4	23.8	90%	•
Program Contingency	6.1	6.1			5.1	2.9			•
Capitalized Start-up 0&M	16.0	16.0			16.0	16.0	5.0		•
MID-TERM CONVERSIONS AND GAP	CLOSURE OP	PORTUNITY P	ROJECTS						
I-80 Alameda/Contra Costa and Westbound approaches to the Bay Bridge (I-80, I-580, I-880, West Grand)	193.0	5.0	5.0						
Dumbarton Bridge Westbound Approach (SR-84)	9.0	0.3			0.3	0.3	0.3	5%	
San Mateo Bridge Westbound Approach (SR-92)	10.0	0.4			0.4	0.4	0.4	5%	
I-680 Contra Costa Northbound Express Lane Completion (8)	390.0	21.5	1.5	20.0				5%	
Centralized & Program Costs & Start-Up O&M - Gap Closures & Future Conversions	TBD								
TOTALS	1,280.3	463.1	40.3	74.3	345.2	345.2	281.7	87%	

- Other Gap Closure and Extension projects not shown: ALA-880 extension northbound from Lewelling to Hegenberger; SOL-80 gap closure from Carquinez Bridge to Red Top Road; SOL-80 extension east of I-505; SOL-680 gap closure from Benicia to Cordelia
- Total Cost Estimate represents current estimated cost to complete each project.
- ⁽³⁾ Cost Estimate, Funded Phases represents current estimated cost to complete phases that are funded for each project.
- (4) BAIFA Express Lane Funds represent the funds that have been allocated from the BATA budget and transferred to the BAIFA budget.
- (5) Percent completes shown are based on the achievement of major milestones, whether those milestones were completed using BAIFA funds or other funds. Projects that have completed milestones using other funds include I-680 Contra Costa Northern Segment Southbound and I-80 Solano.
- © = Within budget, O = identified potential risks that may significantly exceed budget if not mitigated, O = Known impacts to budget changes forthcoming.
- (7) Cost represents the total for HOV Completion and Conversion to Express Lanes. Other funds committed to the HOV Completion portion include Measure J (\$38.7m) and STIP (\$15.6m).
- (8) Represents completion of HOV lane through Walnut Creek to SR-242 and conversion of existing HOV lane north of SR-242, which were previously listed separately.

C. Change Management

The change management process captures the changes in the program that have an impact on the approved scope, schedule and budget baselines. There were no changes recorded in the first quarter of CY2021.

D. Risk Management Plan

MTC manages risk at both the program and contract level by identifying risks that could negatively impact the program's cost and schedule, and assigning responsibility to the person best positioned to manage each risk. Risks managed at the contract level are associated with contingency funding authorized by BAIFA for specific contracts. Risks managed at the program level would draw upon the program contingency line item in the Express Lanes Expenditure Plan. Staff regularly review the risk exposure and mitigation plans at both the contract and program level.

Chart #1 shows the median risk exposure for the program-level risks using Monte Carlo analysis. As of March 31, 2021, the risk exposure stands at \$1.7 million, significantly lower than as reported last quarter. Overall, cost and schedule risks associated with the I-880 corridor were mostly retired, with operations running smoothly. Only one risk remains, which is related to a permitting delay for backhaul communications installation. Furthermore, a couple of risks regarding backhaul connections and toll system testing for I-680 North have been closed out. With the next phase of toll system testing scheduled to begin in the second quarter of CY2021, the team will continue to track the remaining scheduling impacts regarding toll system installation and testing, backhaul communications issues, and the potential for adverse impacts related to COVID-19.

Chart #2 tracks the program's cost forecast and risk exposure as compared to the authorized program budget. Consistent with the amendment to the Expenditure Plan that was adopted on September 26, 2018, the amount of BATA Express Lanes Funds allocated to specific express lanes projects is \$342.3 million, plus program contingency, for a total authorized budget of \$345.2 million.

The current program contingency of \$2.9 million exceeds the current risk exposure of \$1.7 million. While there are few individual risks with major cost impacts, there are many risks with minor cost impacts. Staff remain diligent in managing cost and risk while seeking new funding opportunities.

The top contributors to the program-level risk exposure and the associated mitigation strategies are as follows:

I-880 Alameda

 The remaining risk, a delay in AT&T communication network connections, is still being tracked. This quarter, work has been slightly delayed as AT&T and BAIFA await the permit required for the completion of the fiber installation. Work is estimated to be complete in the second quarter of CY2021. MTC is using wireless communications in lieu of a permanent fiber communications line.



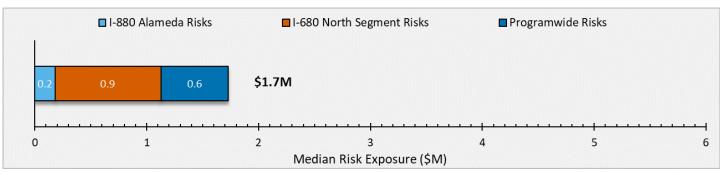


Chart #1 shows the contribution of each project's risks toward the total program risk exposure. Risk exposure is calculated using Monte Carlo simulation.

I-680 Contra Costa Northern Segment Southbound

- In the first quarter of CY2020, BAIFA found project construction to be an essential government function based on Governor Newsom's identification of critical infrastructure sectors, allowing construction to continue in compliance with Contra Costa County public health directives. As state and local health mandates related to COVID-19 continue to evolve, the team will continue to track potential impacts on the completion of the I-680 corridor. At this time, the project is ahead of schedule and work has progressed without significant impacts.
- This past quarter, one of the significant schedule risks regarding complications with the toll system integrator's installation and testing sequences was retired. The project's toll zone configuration overlaps with the toll zones in the existing I-680 South express lanes. To fully test trip building, the toll system needed to be reconfigured before the new project is ready to open. The potential impact was two-fold: existing I-680 customers could be confused by the change in toll zone boundaries, and there could be a temporary reduction in revenue. With the successful reconfiguration in the first quarter, this risk has been retired and the next phase of toll system testing has begun. There is the potential for schedule risk until toll system testing is complete.

342.3

2020-Q2

Cost Forecast (\$M)

\$335

\$330

\$325

\$320

- A risk regarding the delivery and installation of LED panels for pricing signs is still being tracked. Last guarter, an issue regarding the overhead structures missing required connection points was reported. This guarter, the new structural members have been received and installed. Although the new panels are up, the potential for schedule impacts still remains, as the panels have yet to be tested. MTC will continue to track this risk until more is known.
- In addition to the retirement of risk from the toll system integrator's installation and testing sequences, the decrease in exposure this quarter is due to the resolution and retirement of two risks regarding lateral connections to the backhaul and the condition of the existing backhaul trunkline from SR-24 to the Benicia Toll Plaza.

Programwide Risks

342.3

2020-Q4

→ Authorized Budget (\$M)

This guarter, the risk of underground power conflicts with other corridor construction projects has been retired. Toll system communications risk continues to be tracked, with mitigation measures remaining the same: ensure as-built and GIS files are properly documented in the project closeout phases so that future projects can properly identify and locate BAIFA's existing underground assets.

342.3

2021-Q1

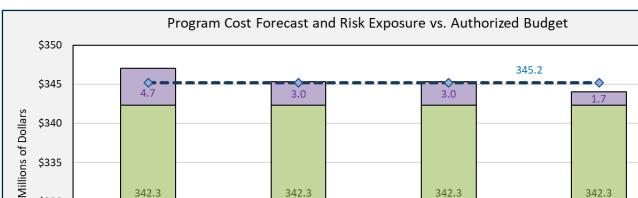


Chart #2: Program Cost Forecast and Risk Exposure vs. Authorized Budget (\$M)



Median Risk Exposure (\$M)

2020-Q3

342.3

E. Active Capital Project Summaries

Centralized Functions Toll System and Program Management, Planning and Regional Coordination

Total Estimated Cost

\$32.4 million for the Centralized Toll System \$28.4 million for Program Planning, Coordination and Management

Schedule

Centralized Toll System was ready for the opening of the I-680 Contra Costa Southern Segment on October 9, 2017.

Program Planning, Coordination and Management is ongoing through the opening of the funded projects.

Project Description

The Centralized Toll System includes the elements of the toll system that are needed to toll all the express lanes, as well as the backhaul communications network components, such as fiber optic cable and leased line services, that transport toll data from MTC lanes to host and toll operations data centers. Centralized toll system work includes designing and implementing the hardware and software for dynamic toll setting and trip building, integration with the FasTrak® Customer Service Center, and acquiring spare parts.

Program management, planning and regional coordination tasks include managing the expenditure plan, cost, schedule and risk; developing the express lane business rules and toll ordinance; conducting customer education and outreach; building out the Regional Operations Center and developing operating procedures; planning for future express lanes; and coordinating with partner agencies to offer a seamless experience for drivers.

Program Management Highlights and Progress

 Staff held internal technical discussions to develop a draft concept for how the FasTrak START Pilot could work, and got feedback from BAIFA on its plan to engage potential customers in pilot design.

Current Program Management Activities

- Staff will finalize the customer education strategy for the start of tolling on the I-680 North Southbound.
- Staff will get feedback from stakeholders on the draft concept for the FasTrak START Pilot. Staff will enter into a contact for focus group services and convene focus groups with potential pilot customers.

Toll System Highlights and Progress

- The toll system integrator contract was awarded in June 2014.
- Buildout of the Regional Operations Center was finished in March 2017.
- The toll system went live to the public on October 9, 2017.
- In December 2018, the toll system integrator contract was extended to June 2023 to include the I-680 Northern Segment. The change removed the I-80 Solano express lanes from the contract. It will be added back when construction funding is secured.
- The I-680 Southern Segment Operations Test concluded in April 2019. Operations testing is a system acceptance test. The Operations & Maintenance (O&M) phase, which includes a one-year warranty period, began in May 2019.
- The toll system integrator went live with lane-side equipment software to finalize the 6C enhancements. The system began tolling 6C tags on October 8, 2019.
- In March 2020, the express lane Host system began sharing toll rate information with MTC's 511 Traveler Information System.
- In June 2020, the toll system integrator began manual image review for low-confidence license plate images to improve trip building.
- In July 2020, the toll system integrator launched the trip building software upgrade to improve system efficiencies and the lane-transaction filter to allow for I-880 testing in the live Host system.

Current Toll System Activities

 The toll system integrator continues to fine-tune the toll system in preparation for I-880 operational acceptance.







I-680 Northern Segment Southbound (CC-680 North SB)

Martinez to Walnut Creek

Benicia Bridge to Rudgear Road

Total Cost Estimate

\$127.4 million (\$53.6 million to be funded by BAIFA)

Scheduled Open Date

Mid-2021

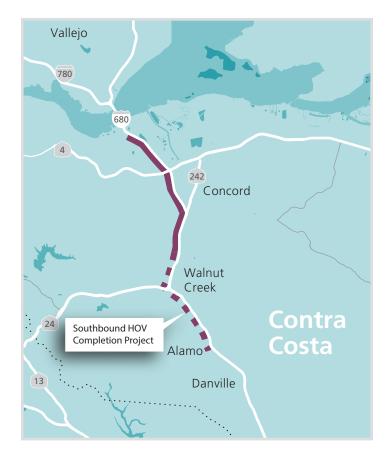
Project Description

The project will convert 11 miles of the existing HOV lane on southbound I-680 from just south of Marina Vista Avenue in Martinez to North Main Street in Walnut Creek into an express lane. It also includes express lane elements for the I-680 Southbound HOV Completion Project. Once complete, I-680 will have a continuous southbound express lane from Martinez to the Alameda County line.

Civil construction will be delivered by the Contra Costa Transportation Authority (CCTA). MTC will install toll and communications equipment and will operate the express lanes.

Project Highlights and Progress

- Caltrans signed the environmental document in December 2016 and approved the Project Report in August 2017.
 Caltrans completed a revalidation in September 2017.
- A contract to remove trees along southbound I-680 in Walnut Creek between South Main Street and Livorna Road was awarded in October 2017, and work was completed in December 2017.
- All utility relocations were completed as of August 2018.
- Construction started October 1, 2018, and a groundbreaking event was held October 3, 2018.
- In December 2018, the toll system integrator contract was extended to June 2023 to include I-680 North SB.
- In May 2019, the backhaul contractor successfully rerouted the backhaul fiber between SR-24 and Livorna Road in Walnut Creek to allow for lane widening, and the toll system integrator participated in switching the live toll equipment from the old to the new fiber.
- In June 2019, CCTA and Caltrans executed an amendment to incorporate Caltrans oversight of landscape work and the first year of plant establishment into their cooperative agreement.



- In September 2019, BAIFA and Caltrans executed a cooperative agreement for Caltrans to review and approve the toll system design package, issue an encroachment permit and review site installation (as needed).
- Caltrans concurred with the replacement planting design in February 2020.
- Caltrans issued the encroachment permit for toll system installation in April 2020.
- In the second quarter of CY2020, the project team developed a strategy to open the new lane capacity between North Main Street and Rudgear Road as an HOV 2+ lane prior to tolling.
- The civil contractor completed highway widening activities in August and the new southbound lane capacity opened to HOV 2+ traffic on August 24, 2020.
- Civil construction was substantially complete for all stages of contract work as of December 2020.

Current Project Activities

- Civil contractor is addressing minor punchlist items at a limited number of locations.
- The toll system integrator will pull cable, energize and test two pricing signs recently installed north of Highway 24.
- The toll system integrator will begin Site Commission
 Testing on I-680 North Southbound in April 2021, starting
 with the north most toll tag read point near the Benicia
 Bridge. Site Commission Testing will be followed by
 Corridor Testing in June 2021.
- Since completing repairs of the Backhaul fiber, the toll system integrator has begun connecting toll sites north of SR-24 into the Backhaul trunkline.

Project Schedule by Phase



Project Cost

	Cost		Othor	BAIFA	Express Lane F	unds ⁽³⁾	Percent
Total Cost Estimate ⁽¹⁾	Estimate, Funded Phases ⁽²⁾	Measure 2 Funds (allocated)	Other Funding (allocated)	July 2018 Amendment	Sept. 2018 Amendment	Expended as of 12/31/20	Complete ⁽ as of 12/31/20 ⁽⁴⁾
127.4	127.4	19.4	54.3	51.3	53.6	39.2	90%

The cost estimate for this project includes planning, design, construction, utilities, backhaul communications and toll system integration.

Costs shown in millions of escalated dollars.

- Total Cost Estimate represents current estimated cost to complete each project.
- ⁽²⁾ Cost Estimate, Funded Phases represents current estimated cost to complete phases that are funded for each project.
- BAIFA Express Lane Funds represent the funds that have been allocated from the BAIFA budget.
- (4) Percent complete shown is based on the achievement of major milestones whether those milestones were completed using BAIFA funds or other funds.

I-80 Solano (SOL-80)

Fairfield to Vacaville

Red Top Road to I-505

Total Cost Estimate \$274.9 million

Scheduled Open Date

2024, subject to funding

Project Description

This project will convert the existing eastbound and westbound HOV lanes to express lanes between Red Top Road and Air Base Parkway in Fairfield. Conversion work includes striping lanes and installing sign gantries, signs, FasTrak® toll tag readers and traffic-monitoring video cameras.

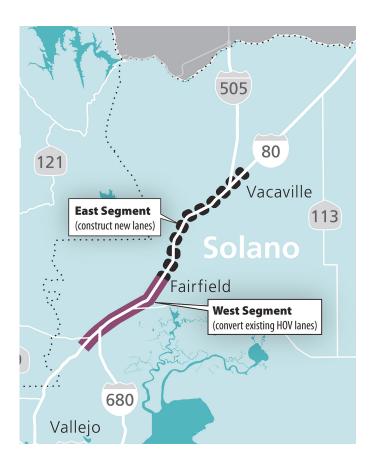
The project will also construct new eastbound and westbound lanes between Air Base Parkway and I-505 in Vacaville. In this section, the highway will be widened along with the installation of express lane striping, signage and equipment. The project will result in 36 miles of express lanes on I-80 in Solano County.

The Solano Transportation Authority (STA) is the lead agency for environmental clearance and civil design.

Caltrans will advertise and award the construction contract, and a blended Caltrans/STA team will administer construction. MTC will install toll and communications equipment and will operate the express lanes.

Project Highlights and Progress

- A public open house was held in August 2015.
- The preliminary engineering report and environmental document were completed in December 2015.
- The final design document was approved by Caltrans in March 2018.
- The project reached the Ready-to-List milestone in April 2018.
- The California Transportation Commission awarded \$123 million of Senate Bill 1 competitive funds to the project in November 2020. The project funding plan is now complete, subject to the availability of \$85 million of Regional Measure 3 Express Lane Program funds pending litigation.



Current Project Activities

- The Solano Transportation Authority (STA) will revalidate the environmental clearance approval to coincide with the anticipated construction period.
- BAIFA is coordinating with STA to update design documents to reflect current standards for design elements and specifications for the toll collection system.
- BAIFA is coordinating on funding strategies to backfill Regional Measure 3 Express Lane Program funds in the budget.
- BAIFA is negotiating contractual terms with the Toll System Integrator for design, implementation, and operations & maintenance.
- Staff is re-engaging with AT&T to confirm the original design for fiber and network equipment to the Backhaul hubs in Fairfield and Vacaville.

Project Schedule by Phase



^{*} Funding for these activities is not yet secured.

Project Cost

Cost Reg	Regional	Other	BAIFA	Express Lane F	unds ⁽³⁾	Percent	
Total Cost Estimate ⁽¹⁾	Estimate, Funded Phases ⁽²⁾	Measure 2 Funds (allocated)	Funding (allocated)	July 2018 Amendment	Sept. 2018 Amendment	Expended as of 12/31/20	Complete as of 12/31/20 ⁽⁴⁾
274.9	32.5	14.4		19.0	18.1	11.7	20%

The cost estimate for this project includes planning, design, construction, utilities, backhaul communications and toll system integration.

Costs shown in millions of escalated dollars.

- Total Cost Estimate represents current estimated cost to complete each project.
- (2) Cost Estimate, Funded Phases represents current estimated cost to complete phases that are funded for each project.
- ⁽³⁾ BAIFA Express Lane Funds represent the funds that have been allocated from the BAIFA budget.
- (4) Percent complete shown is based on the achievement of major milestones whether those milestones were completed using BAIFA funds or other funds.

IV. OPERATIONS

I-680 Contra Costa Express Lanes

The I-680 Contra Costa Express Lanes opened October 9, 2017. The lanes run 11 miles northbound from Alcosta Boulevard to Livorna Road and 12 miles southbound from Rudgear Road to Alcosta Boulevard. Regional Operations Center staff monitor equipment and lane performance, make toll rate adjustments, and coordinate with the California Highway Patrol (CHP) and Caltrans on incident management. The FasTrak® Customer Service Center issues toll tags, handles toll invoicing and collections, and provides customer service. Toll tag and vehicle occupancy requirements are enforced automatically by the

toll system and manually by the CHP under contract to BAIFA. A 'backhaul' fiber network and supplemental leased-line services offer fast and secure transfer of tolling data. Roadway maintenance is also funded by the express lanes. Program and contractor staff perform public outreach and education, track and report on program performance and analyze traffic, and support operations in other ways as needed. Operating revenue and expenses are reported quarterly to BAIFA.

See **Appendix C** for a summary of this quarter's express lanes performance.



expresslanes.511.org • mtc.ca.gov/express-lanes

Rules of the Road

- Hours are Monday through Friday, 5 a.m. – 8 p.m.
- Tolls change based on traffic congestion; there is no maximum toll
- All vehicles in the express lane must use a FasTrak® or FasTrak Flex® toll tag
- Carpools of 2 or more people, eligible clean air vehicles, motorcycles and transit buses travel toll-free with a properly set FasTrak Flex® toll tag
- Learn more at expresslanes.511.org

I-880 Alameda Express Lanes

The I-880 Alameda Express Lanes opened October 2, 2020. The lanes run 20 miles northbound from Dixon Landing Road to Lewelling Boulevard and 25 miles southbound from Hegenberger Road to Dixon Landing Road. Regional Operations Center staff monitor equipment and lane performance, make toll rate adjustments, and coordinate with the California Highway Patrol (CHP) and Caltrans on incident management. The FasTrak® Customer Service Center issues toll tags, handles toll invoicing and collections, and provides customer service. Toll tag and vehicle occupancy requirements are enforced automatically

by the toll system and manually by the CHP under contract to BAIFA. A 'backhaul' fiber network and supplemental leased-line services offer fast and secure transfer of tolling data. Roadway maintenance is also funded by the express lanes. Program and contractor staff perform public outreach and education, track and report on program performance and analyze traffic, and support operations in other ways as needed. Operating revenue and expenses are reported quarterly to BAIFA.

See **Appendix D** for a summary of this quarter's express lanes performance.



expresslanes.511.org • mtc.ca.gov/express-lanes

Rules of the Road

- Hours are Monday through Friday, 5 a.m. – 8 p.m.
- Tolls change based on traffic congestion; there is no maximum toll
- All vehicles in the express lane must use a FasTrak® or FasTrak Flex® toll tag
- Carpools of 3 or more people, motorcycles and transit buses travel toll-free with a properly set FasTrak Flex toll tag
- 2-person carpools and eligible clean air vehicles (CAVs) pay a half-price toll with a properly set FasTrak Flex or FasTrak CAV toll tag, respectively
- Learn more at expresslanes.511.org

APPENDICES

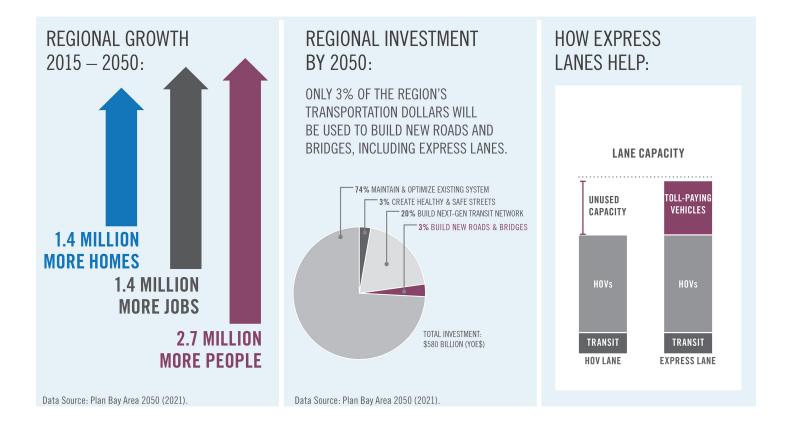
APPENDIX A

Express Lanes Overview

1. Why Express Lanes?

The Bay Area lacks the necessary transportation funding and land to build enough transportation capacity to keep up with regional growth. Bay Area Express Lanes maximize use of our highways by A) filling any empty space in existing HOV lanes,

B) improving operations in existing HOV lanes through better carpool enforcement and strategies to prevent lane slowdowns, and C) filling gaps in the HOV lane system to encourage more carpooling.

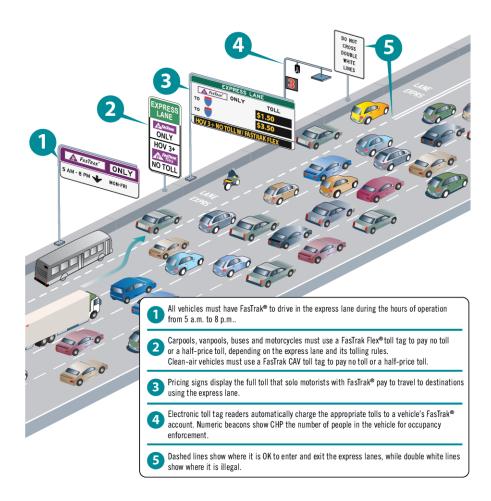


2. How Express Lanes Work

MTC Express Lanes give everyone with FasTrak® the option for a more reliable and faster trip than regular highway lanes. Overhead electronic pricing signs display toll rates, which may change every few minutes with traffic. Tolls are collected electronically, the same as on Bay Area toll bridges.

Solo motorists pay tolls with either a standard FasTrak® toll tag or a FasTrak Flex® toll tag set to "1" person. Carpools, vanpools and buses must use a FasTrak Flex® toll tag set to "2" or "3+" people to pay no toll or a half-price toll, depending on the express lane and its tolling rules. Motorcycles must use a FasTrak Flex toll tag set to "3+" people to pay no toll. Qualifying clean air vehicles (CAVs) must use a FasTrak CAV toll tag set to the number of people in the vehicle to pay no toll or a half-price toll. Drivers should always set the switch before driving.





The figure to the left explains how to use Bay Area Express Lanes. MTC Express Lanes will be "open" access to the extent possible, meaning drivers will enter and exit the express lanes similar to how they enter and exit HOV lanes today. Areas prone to weaving or other safety concerns may have access restrictions to control entry and exit at these locations. Signage and lane striping will identify these entry and exit locations. Limiting access is a way to improve travel speeds in express lanes.

3. System Technology and Elements

MTC Express Lanes are implemented by overlaying communications equipment on new and existing freeway infrastructure. Express lanes implementation requires four discrete elements that are integrated through design, construction and operations, including:

Civil Infrastructure (Highway Modifications)

For lane conversions, the civil infrastructure consists of sign structures, sign panels, lane striping, and conduit work for power and communications. For gap closure and extension projects, the civil infrastructure includes highway widening to add lanes as well as the signage and communications equipment required for conversions.

The civil contractor will put in place the foundations and structures upon which the toll systems contractor will install the toll equipment. In addition, the civil contractor will construct the infrastructure necessary to provide power and communications to the toll system.

Toll System

The toll system consists of two components, the in-lane system and the back-end "host" system. The lane system consists of

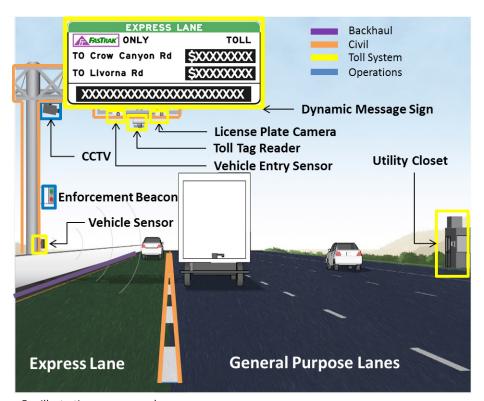
all the equipment on the highway needed to operate the toll system including toll tag readers, cameras and vehicle detection. The host system serves as the brain of the toll system, which collects and processes all the data from the highway and sends it to the regional customer service center for billing.

Backhaul Communications Network

The backhaul network is the communication line along which data collected in the lanes is sent to the toll host system, operations center and regional customer service center. The backhaul contractor will install new conduit and communications fiber as well as utilize existing Caltrans, BART and other infrastructure to build the network. The backhaul network is being designed with the expectation that it will become part of a broader regional communications network.

Operations

The operations element consists of everything that is needed to successfully operate the express lanes including: an operations center, the regional customer service center, enforcement, public outreach, performance monitoring and ongoing maintenance. An express lanes Regional Operations Center has been established in the Bay Area Metrocenter building in San Francisco where operators actively monitor the condition of the lanes and coordinate with Caltrans and the California Highway Patrol to ensure that the lanes operate efficiently.



For illustrative purposes only

APPENDIX B

Completed Capital Project Summaries

I-680 Contra Costa Southern Segment (CC-680 South)

Walnut Creek to San Ramon

Livorna Road/Rudgear Road to Alcosta Boulevard

Total Program Estimate

\$55.6 million

Open Date

Fall 2017

Project Description

The project converts existing HOV lanes to express lanes on I-680 from Rudgear Road to Alcosta Boulevard in the southbound direction and from Alcosta Boulevard to Livorna Road in the northbound direction. It will result in 23 express lane miles through San Ramon, Danville, Alamo and southern Walnut Creek. No widening or additional lanes will be added to the freeway.

This conversion project includes striping lanes and installing sign gantries, signs, FasTrak® toll tag readers, and traffic monitoring video cameras. In addition, the project installs equipment and observation areas to help the California Highway Patrol enforce proper use of the lanes.

Project Highlights and Progress

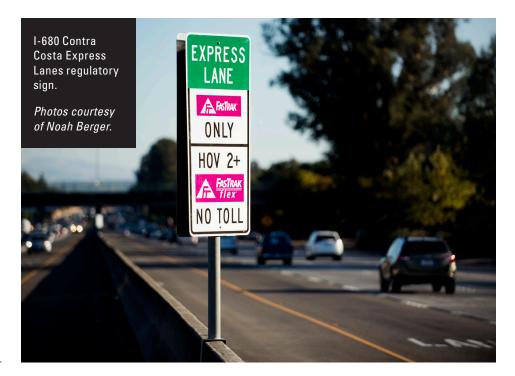
- Public open house was held in March 2014.
- Preliminary engineering report and environmental document were completed in August 2014.
- Final design for both the backhaul communication network and the toll system were completed in December 2015.
- Final roadway design was completed in April 2015. Civil construction was completed in May 2017.
- Backhaul contractor completed installation of 26 miles of fiber optic cable in June 2017.
- Corridor Testing was completed in August 2017.
- Toll system equipment and software was finalized and tested in September 2017.



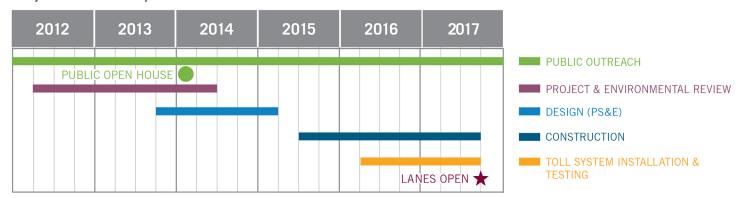
- Backhaul operations and maintenance started in October 2017.
- The toll system went live to the public on October 9, 2017.

Current Project Activities

- The integrator is fine tuning field equipment and addressing punch list items in preparation for Operations Testing in summer of 2018. This test verifies the toll system meets all specifications and leads to the maintenance phase of operations.
- The Backhaul contractor completed project 'as-built' documentation and is performing ongoing operations of the communications network.
- Beginning in this Quarterly Report, since civil construction is complete and the express lanes are open, this capital project will be archived in Appendix B and no further updates will be made to the project summary.



Project Schedule by Phase



Project Cost

		Regional	BAIF	A Express Lane I	Funds ⁽³⁾	
Program Estimate ⁽¹⁾	Cost Forecast ⁽²⁾	Measure 2 Funds (allocated)	Dec. 2015 Amendment	June 2017 Amendment	Expended through 3/31/18	Physical % Complete ⁽⁴⁾
55.6	55.6		55.6	55.6	49.7	98%

The program estimate for this project includes planning, design, construction, utilities, backhaul communications and toll system integration.

Costs shown in millions of escalated dollars.

- Program estimate represents current estimated cost to complete each project.
- ⁽²⁾ Cost forecast represents current estimated cost to complete phases that are funded for each project.
- BAIFA Express Lane Funds represent the funds that have been allocated from the BAIFA budget.
- (4) Physical percent complete shown is based on the achievement of major milestones whether those milestones were completed using BAIFA funds or other funds.

I-880 Alameda (ALA-880) Oakland to Milpitas

Hegenberger Road/Lewelling Boulevard to Dixon Landing Road

Total Cost Estimate

\$139.1 million

Scheduled Open Date

Fall 2020

Project Description

The project converts the existing I-880 HOV lanes that run from Hegenberger Road to Dixon Landing Road in the southbound direction and from Dixon Landing Road to Lewelling Boulevard in the northbound direction to express lanes.

The conversion involves lane striping and installing sign structures, signs, FasTrak® toll tag readers, traffic monitoring video cameras, lighting, a data communications network and California Highway Patrol observation areas. The highway is also being widened in three locations to accommodate merge lanes into and out of the express lanes. It will result in 51 express lane miles between Oakland and Milpitas.

The express lanes conversion project was coordinated with a median barrier reconstruction project and a pavement resurfacing project, both led by Caltrans. The median barrier reconstruction project installed foundations and other infrastructure required for the express lanes for a large portion of the corridor.

Project Highlights and Progress

- Public open houses were held in March 2015.
- Preliminary engineering report and environmental document were completed in October 2016.
- The express lanes civil contractor began construction in September 2017.
- Caltrans approved the toll system design and issued the encroachment permit for the toll system integrator in March 2018.
- MTC's express lanes scope of work delivered through Caltrans' median barrier contract was completed in the second quarter of 2018, including barrier demolition, express lane sign structure foundations and light foundations.



- Caltrans completed its technical review to determine I-880 hours of operation (5am to 8pm, Monday through Friday) and high occupancy vehicle threshold (3 or more persons) in fall 2018.
- Caltrans finalized the design of fiber laterals to connect its freeway management equipment to the communications backhaul in December 2018. Construction work commenced on the Caltrans fiber laterals in October 2019.
- In March 2019, the civil contractor successfully removed two existing overhead sign bridge structures at the SR-92 interchange and installed two new ones.
- The backhaul contractor connected the backhaul corridor hubs to the toll system host and operations datacenters in Martinez, Oakland and San Francisco in October 2019. The toll system integrator approved the I-880 backhaul fiber in November 2019.

Bay Area Infrastructure Financing Authority

- All PG&E service connections are complete.
- In June 2020, the civil contractor completed new restricted access striping on the corridor and installed some signage.
 A public information campaign explained the changes.
- Final signing and pavement marking civil work to transition the HOV lanes to express lanes was completed in August and September. Until tolling begins, the lanes will function as HOV 2+ only lanes.
- The toll system integrator finished equipment installation in August 2020 and toll system testing in September 2020.
- At strategic points in the project timeline, staff performed outreach and education about I-880 design, construction and proposed operations including with members of lowincome communities (2012); corridor city staff (2015 & 2019); and corridor elected officials (2017, 2019 & 2020).

Current Project Activities

- On October 2, 2020, BAIFA began tolling on the I-880 Express Lanes.
- Beginning the fourth quarter of 2020, since civil construction is complete and the express lanes are open, this capital project will be archived in Appendix B and no further updates will be made to the project summary.

Project Schedule by Phase



^{*}Includes I-880 median barrier improvements.

Project Cost

	Cost Regional	ΙITηΔΥ		BAIFA	Percent		
Total Cost Estimate ⁽¹⁾	Estimate, Funded Phases ⁽²⁾	Measure 2 Funds (allocated)	Funding (allocated)	July 2018 Amendment	Sept. 2018 Amendment	Expended as of 9/30/20	Complete as of 9/30/20 ⁽⁴⁾
139.1	139.1			135.5	139.1	119.0	99%

The cost estimate for this project includes planning, design, construction, utilities, backhaul communications and toll system integration.

Costs shown in millions of escalated dollars.

- Total Cost Estimate represents current estimated cost to complete each project.
- (2) Cost Estimate, Funded Phases represents current estimated cost to complete phases that are funded for each project.
- BAIFA Express Lane Funds represent the funds that have been allocated from the BAIFA budget.
- Percent complete shown is based on the achievement of major milestones whether those milestones were completed using BAIFA funds or other funds.

APPENDIX C

I-680 Contra Costa Express Lanes Operations Report

I-680 Contra Costa Express Lanes Performance 1st Quarter 2021: January - March





METROPOLITAN TRANSPORTATION COMMISSION

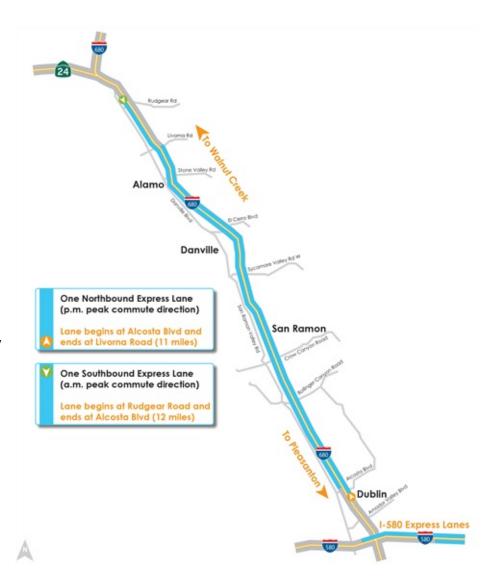




Bay Area Infrastructure Financing Authority

Rules of the Road

- Hours: 5 a.m. to 8 p.m. Monday Friday
- FasTrak® required
- Carpools (2+) and motorcycles travel toll-free with FasTrak Flex® toll tags.
- Solo-drivers in eligible clean-air vehicles pay half-price tolls with FasTrak CAV toll tags.*
- * Prior to October 1, 2020 all eligible clean air vehicle drivers traveled toll-free.





Summary of Performance Highlights

Trips & Revenue

- 1.2 million express lane trips were taken in Q1 2021. By the end of the quarter (March), express lane usage and tolls reached their highest points since the start of the COVID-19 pandemic. However, they are still considerably lower than Q1 2020 pre-COVID levels.
- The share of toll-free trips (carpools and non-revenue tags) was 37%, lower than the pre-COVID average of 41%. The share of toll violation trips (trips with no FasTrak account) was 11%, higher than the pre-COVID average of 6%, but lower than the prior two quarters.
- Q1 2021 toll revenue fell 63% from Q1 2020 due to an 18% decline in the number of paid trips and a 60% decline in average toll paid. Revenues grew 9% from Q4 2020 as average toll paid increased 9% even though paid trips fell 3%.

Speeds & Volumes

- Northbound peak hour (5 6 p.m) corridor-length average speed was up 9 mph in general purpose lanes and 8 mph in the express lane from a year ago. In the southbound peak hour (8 9 a.m.), it was up 11 mph in the general purpose lane and 12 mph in the express lane.
- At the most congested locations in the corridor, express lanes speeds were 45 mph or better on 80% of the days in the quarter NB and 97% SB. This is an improvement over the 48% of days in Q1 2020 due to COVID-19-induced lighter traffic.
- In the NB Livorna toll zone in the p.m. peak hour, which is the most congested location and time in the corridor, average maximum vehicle volume fell 33% in the express lane and 6% in the general purpose lanes from Q1 2020.

Tolls

- Monthly average tolls paid peaked at \$4.40 (northbound p.m.), while a.m. tolls did not exhibit peaking in either direction of travel. Peak hour average tolls were \$3.20 to \$5.00 lower than Q1 2020. Demand for northbound express lane travel increased over the quarter as evidenced by paid tolls which never reached \$10 in January, yet did so on half of tolling days in the second half of the quarter.
- About 3% of tolled trips paid \$10, while 89% paid \$2 or less. In Q1 2020, 11% of tolled trips paid \$10 tolls, while 60% paid \$2 or less.

Enforcement

• CHP made 723 enforcement contacts in Q1 2021, 19% of which resulted in HOV occupancy citations. BAIFA requested 41% fewer enforcement hours in Q1 2021 than in Q1 2020 due to COVID-19-related traffic decreases, and CHP filled 90% of the hours.

Lane Users

- In Q1 2021, about 300,000 unique vehicles made trips in the express lanes. Of these, about half (49%) carried FasTrak toll tags, while the other half (51%) did not, and their trips were captured by license plate reads. The share of vehicles without tags was an 8% greater share of express lane users than the 43% Q1 2020 share.
- Vehicles carrying FasTrak toll tags made an average of 4.7 trips per vehicle in the quarter, while vehicles identified by license plate made an average of 2.7 trips. As a result about 37% of trips were captured by license plate and 63% were captured by toll tag.



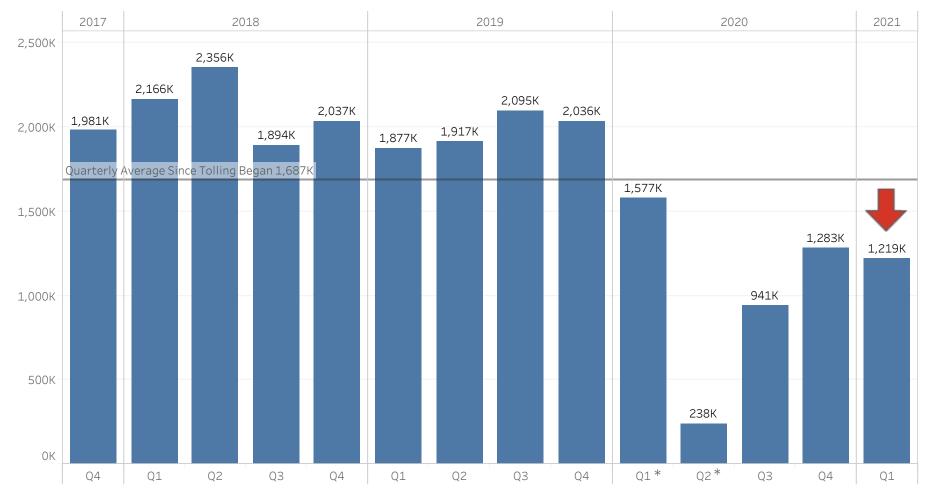


Express Lane Trips

In Q1 2021, about 1.2 million express lane trips were recorded, a 5% decline from Q4 2020. The first quarter of CY20 and CY19 also had fewer trips than their prior quarters (Q4 2019 and Q4 2018, respectively). Q1 2021 trips are down 23% from Q1 2020.

In Q1 2021, average daily express lane trips (ADT) were 19,000, down 41% from the pre-pandemic ADT average of 32,100 (October 2017 through March 19, 2020*), but up 11% from the pandemic ADT average of 17,100 (June 1, 2020* through March 31, 2021).

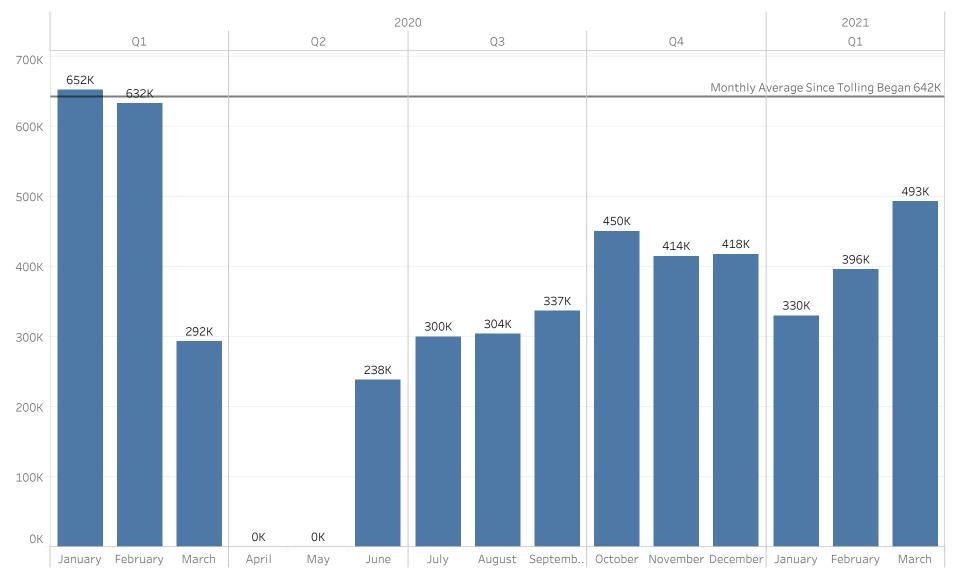
^{*} Express lanes did not toll from March 20, 2020 through May 31, 2020 during the initial outbreak of COVID-19.



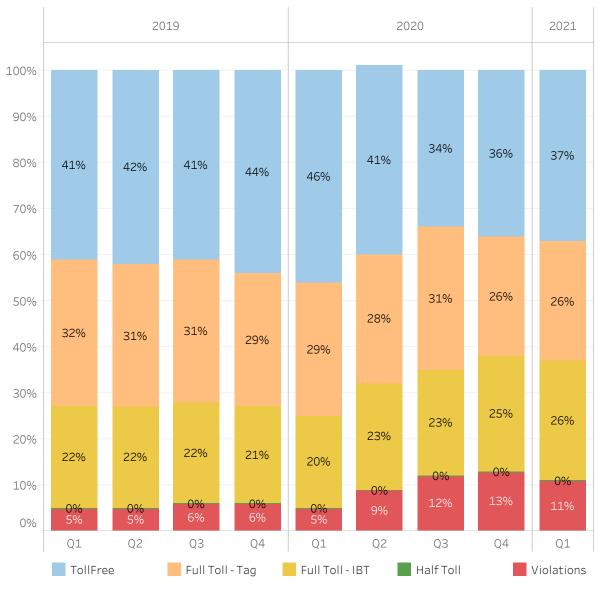


Express Lane Trips

March 2021 trips were higher than in any month since the pandemic began and were off less than 25% from trips in the pre-pandemic months.



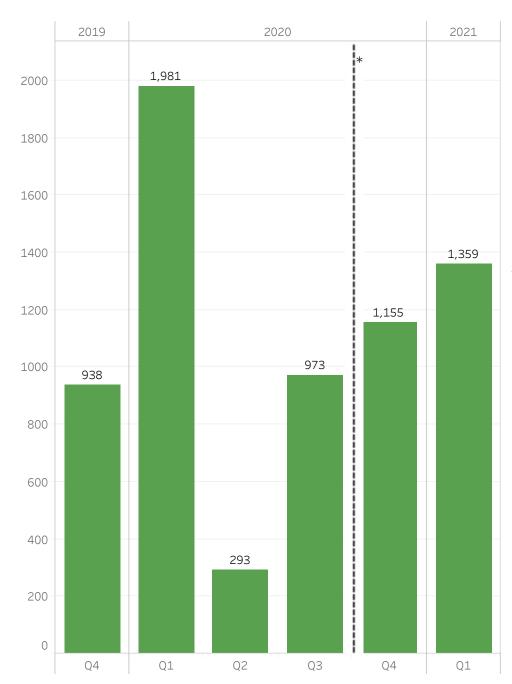
Express Lane Trip Types



- The share of toll-free trips made by carpools was 37% in Q1 2021; lower than the 41% pre-COVID average share.
- Full-toll trips were 52% of the express lane trips made this quarter 26% by drivers with toll tags and 26% by drivers whose license plates were captured and matched to FasTrak accounts (Image-based Trips or IBT).
- Violations occur when image-based trips are not matched to FasTrak accounts. In Q1 2021, 11% of trips were violations, a slight improvement over the prior two quarters.
- Starting October 2, 2020, drivers of eligible Clean Air Vehicles were required to use FasTrak CAV tags. Set in the "1" position, solo CAV drivers pay half-price tolls. In Q1 2021, CAVs made fewer than 1% of trips. The number of CAV trips is shown in more detail on the following page.

[&]quot;Toll Free" and "Full Toll-Tag" trips are recorded by toll tag settings. "Full Toll-IBT" trips are license plate images matched to FasTrak accounts. "Half-Toll" trips are recorded by CAV tags. CAV half-price tolling began October 2, 2020. "Violations" trips are license plate images not matched to FasTrak accounts.

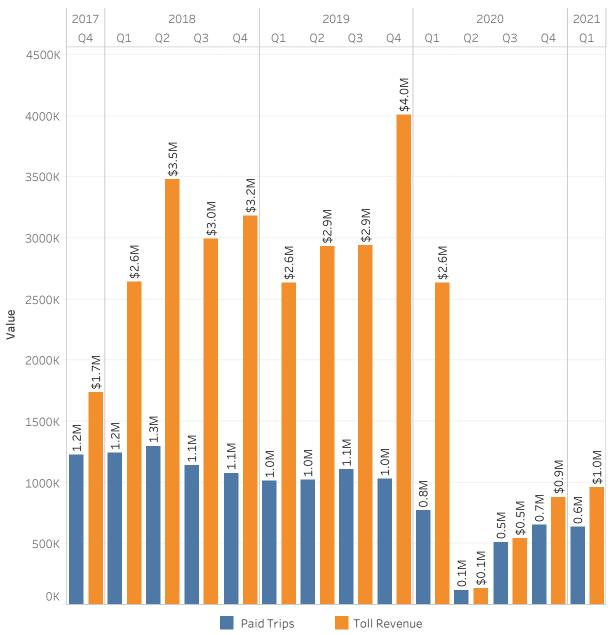
Express Lane Clean Air Vehicle Trips



In Q1 2021, about 1,360 FasTrak CAV tag trips were recorded. These tags could have been set in the 1, 2 or 3+ position.

FasTrak Clean Air Vehicle (CAV) toll tags were introduced in the Bay Area in Fall 2019. Their use on the I-680 Contra Costa express lanes became required as of October 2, 2020*, when toll policy changed to charge single-occupant CAVs half-price tolls. FasTrak CAV toll tags are necessary for successful implementation of the CAV toll policy.

Express Lane Toll Revenue & Paid Trips



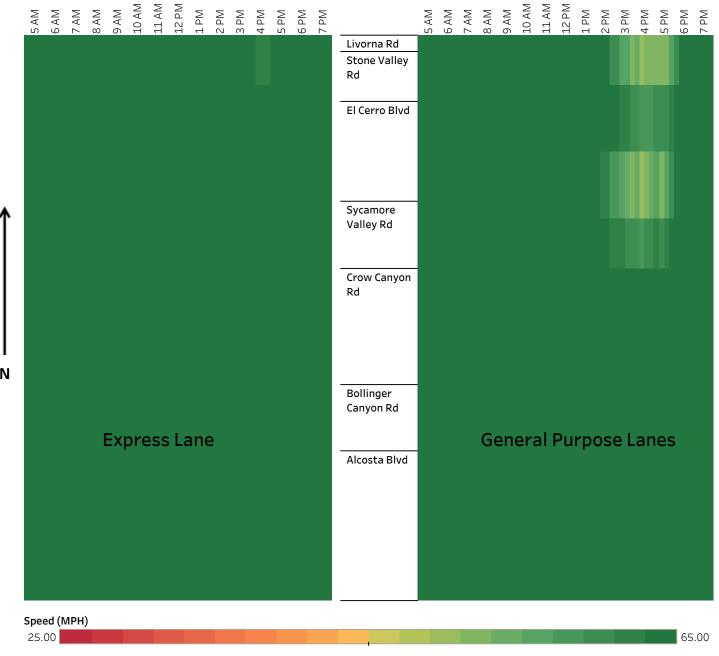
- Q1 2021 toll revenue was \$1.0M, a 63% decline from Q1 2020 due to an 18% decline in paid trips and and a 60% decline in average toll paid.
- Q1 2021 toll revenue increased 9% from Q4 2020. Although paid trips fell 3%, average toll paid increased 9%.

Notes

Toll revenue represents tolls collected and does not include violation fees.

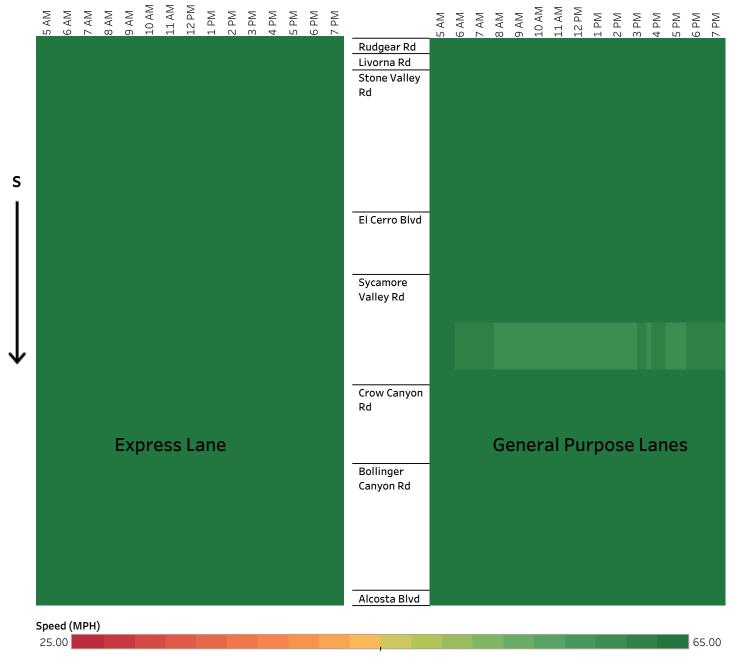
Quaterly revenue reflects the date revenue was recorded in MTC's financial system, which can lag from the time the trip was made.

Northbound Speeds by Location & Time



In Q1 2021, northbound express lane average speeds were 65 mph or better from 5 a.m. to 8 p.m. at all corridor locations. Northbound, general purpose lane average speeds fell to lows of around 50 mph at the north end of the corridor in the afternoon.

Southbound Speeds by Location & Time



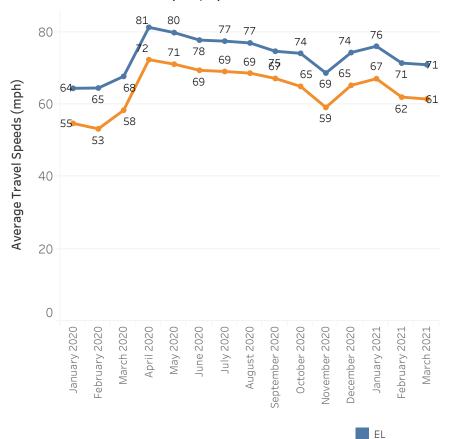
In Q1 2021, southbound express lane and general purpose lane average speeds were 65 mph or better from 5 a.m. to 8 p.m. at all corridor locations.

Peak Hour Average Corridor Speeds

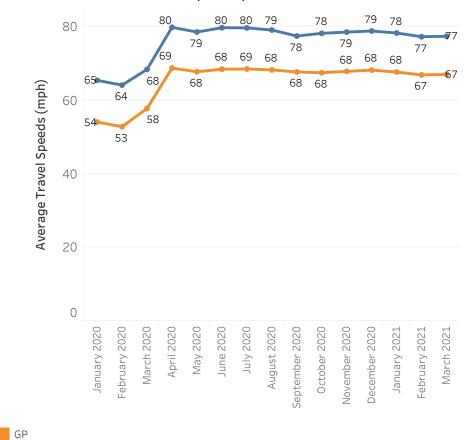
Peak-hour monthly average speeds for the length of the corridor spiked in April 2020 at the beginning of the COVID-19 pandemic. Northbound, speeds have been generally declining since their highs of 81 mph in the express lane and 72 mph in the general purpose lane. Southbound, speeds have remained relatively consistent since April 2020 at 67 to 69 mph in the GP lanes and 77 to 80 mph in the express lane.

The average historical peak hour speed differential between the express lanes and the general purpose lanes is 10 mph northbound and 11 mph southbound. In Q1 2020, the average differential was 9 mph northbound and 10 mph southbound.

Northbound P.M. Peak Hour (5 - 6pm) - Corridor



Southbound A.M. Peak Hour (8 - 9am) - Corridor



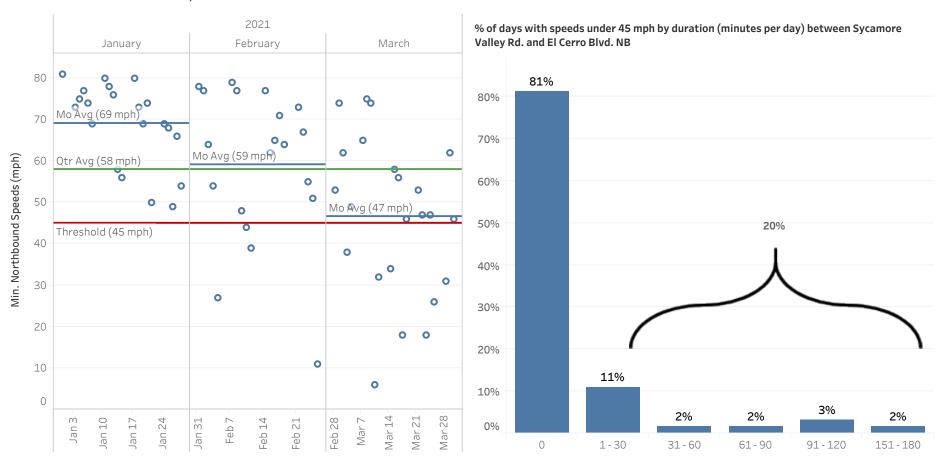
Speeds are averaged over the distance of the express lane. Peak hours are defined as the hours with lowest average corridor speeds across all lanes.

Lowest NB Exp Lane Speed - near El Cerro

Northbound express lane traffic speeds are typically slowest between Sycamore Valley Rd. and El Cerro Blvd. At this location, the lowest daily express lane speed averaged 58 mph for the quarter compared to 45 mph a year ago. It fell below 45 mph on 12 of the 64 days (19%) in the quarter (compared to 65% of Q1 2020 days).

Express lane speed at this location slowed over the course of the quarter. In January, the lowest daily average speed was 69 mph; in March it was 49 mph. Speeds never fell below 45 mph in January, but did so on 8 days in March.

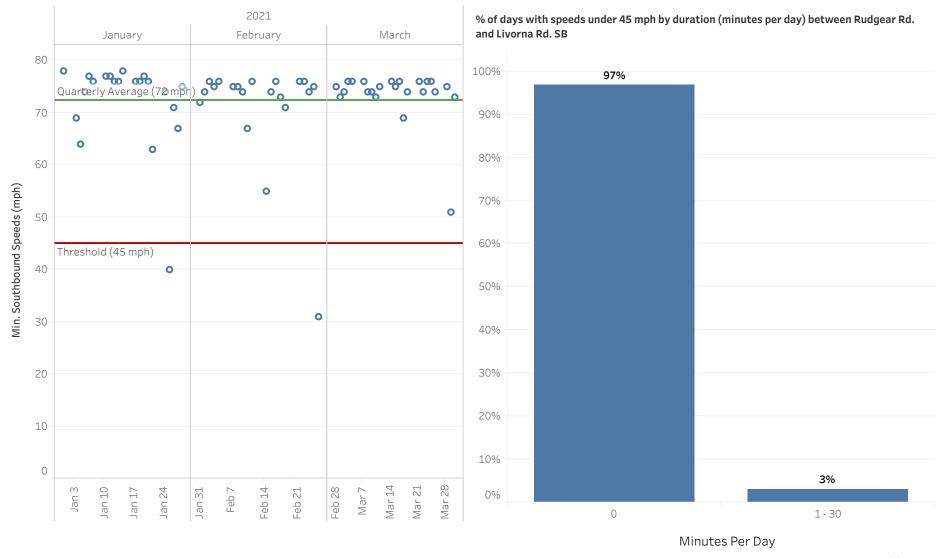
The duration of the slow speed incidences was short, with about 9% lasting longer than 30 minutes (compared to 32% lasting longer than 30 minutes in Q1 2020).



Minutes Per Day (%s do not = 100 due to rounding)

Lowest SB Exp Lane Speed - near Livorna

Southbound express lane traffic speeds are typically slowest between Rudgear Rd. and Livorna Rd. Southbound traffic remained light due to COVID-19, and the lowest daily speed at this location averaged 72 mph over the quarter (compared to 54 mph in Q1 2020) and fell below 45 mph on just 2 of the 64 days (3%) in the quarter (compared to 52% of days in Q1 2020). Q1 2021 slow speeds were due to traffic incidents and lasted 1 to 30 minutes.

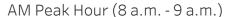


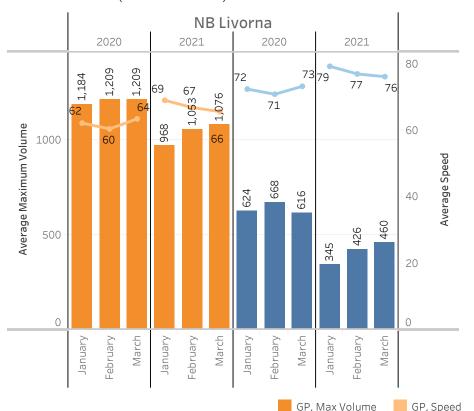
COVID-19 Traffic Impacts - a.m. peak hour

The graphs below explain traffic changes from Q1 2020 to Q1 2021 in the AM peak hour (8 - 9 a.m) in the two busiest zones - NB Livorna on the left and SB Crow Canyon on the right. Bars show average maximim vehicle volumes and lines show average speeds.

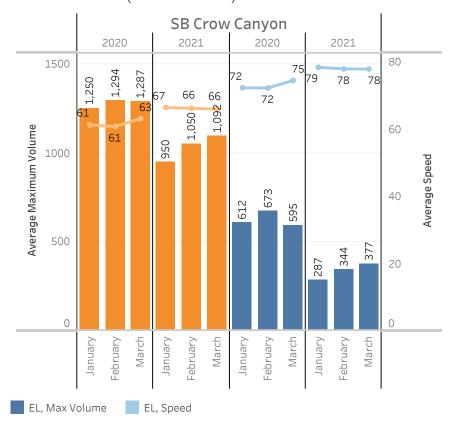
In the NB Livorna Zone, general purpose lane average maximum volume fell 14% (orange bars) and average speed rose from 62 to 67 mph (orange lines). Express lane average maximum volume fell 36% (blue bars) and averge speed rose from 72 to 77 mph (blue lines).

In the SB Crow Canyon Zone, general purpose lane average maximum volume fell 19% (orange bars) and average speed rose from 62 to 66 mph (orange lines). Express lane average maximum volume fell 47% (blue bars) and average speed rose from 73 to 78 mph (blue lines).





AM Peak Hour (8 a.m. - 9 a.m.)



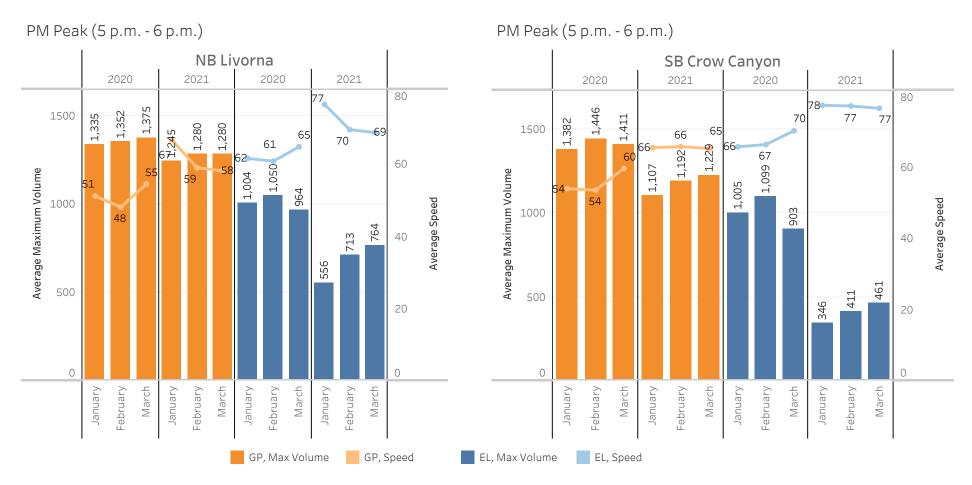


COVID-19 Traffic Impacts - p.m. peak hour

The graphs below explain traffic changes from Q1 2020 to Q1 2021 in the PM peak hour (5 - 6 p.m) in the two busiest toll zones - NB Livorna on the left and SB Crow Canyon on the right. Bars show average maximum vehicle volumes and lines show average speeds.

In the NB Livorna Zone, general purpose lane average maximum volume fell 6% (orange bars) and average speed rose from 51 to 61 mph (orange lines). Express lane average maximum volume fell 33% (blue bars) and average speed rose from 62 to 72 mph (blue lines).

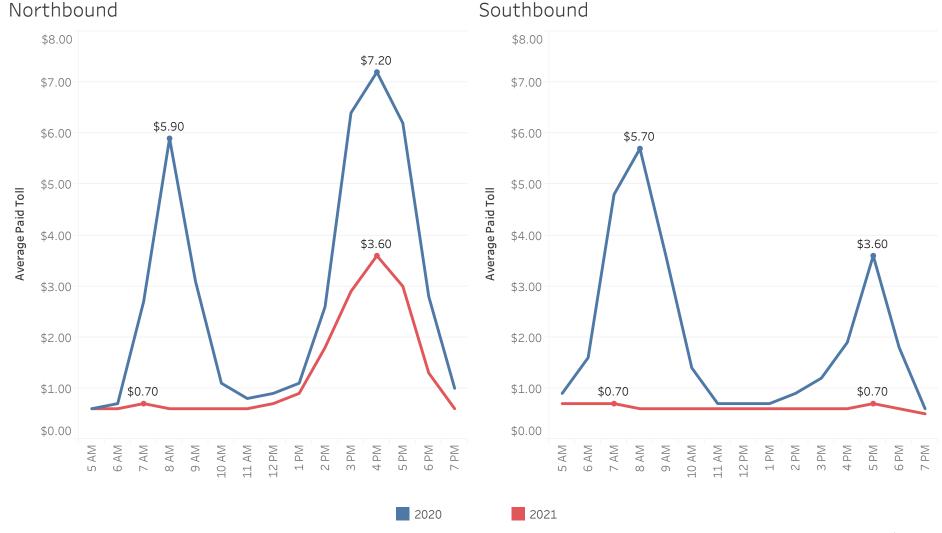
In the SB Crow Canyon Zone, general purpose lane average maximum volume fell 16% (orange bars) and average speed rose from 56 to 66 mph (orange lines). Express lane average maximum volume fell 60% (blue bars) and average speed rose from 68 to 77 mph (blue lines).



Quarterly Average Tolls Paid - Year Over Year

Q1 2021 average tolls paid northbound peaked at \$3.60 in the 4 to 5 p.m. hour, half the \$7.20 peak in Q1 2020.

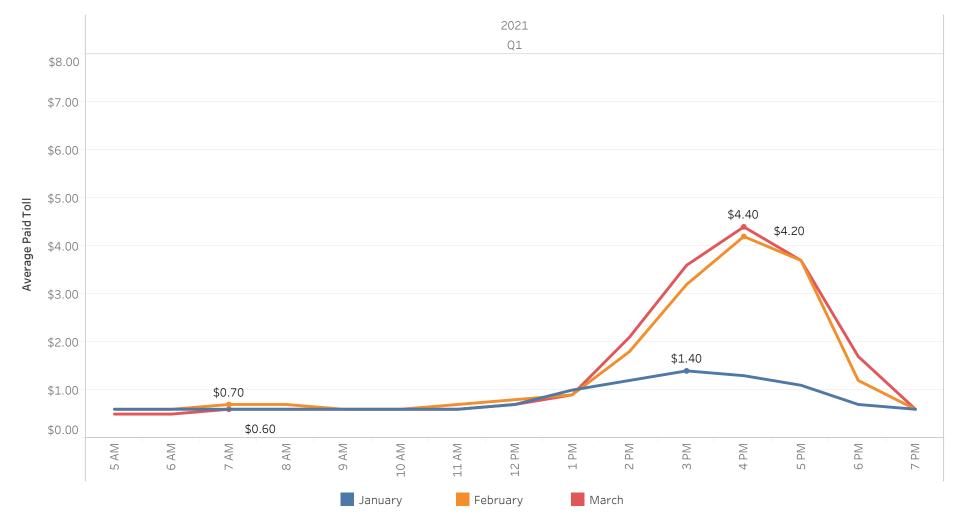
Typically, the southbound peak period occurs in the a.m. Like the prior two quarters, this was not observed in Q1 2021 due to reduced commuting during COVID-19. The Q1 2021 southbound a.m. peak toll was \$0.70 compared to \$5.70 in Q1 2020.



Northbound Tolls

The tolls drivers pay depend on traffic conditions and the distances traveled. Northbound average tolls paid peaked at \$4.40 in the 4 to 5 p.m. hour in Q1 2021, which is higher than in Q4 2020 (\$3.70) or Q3 2020 (\$2.10), but still lower than typical pre-COVID conditions, when the peak northbound average tolls paid were greater than \$5.

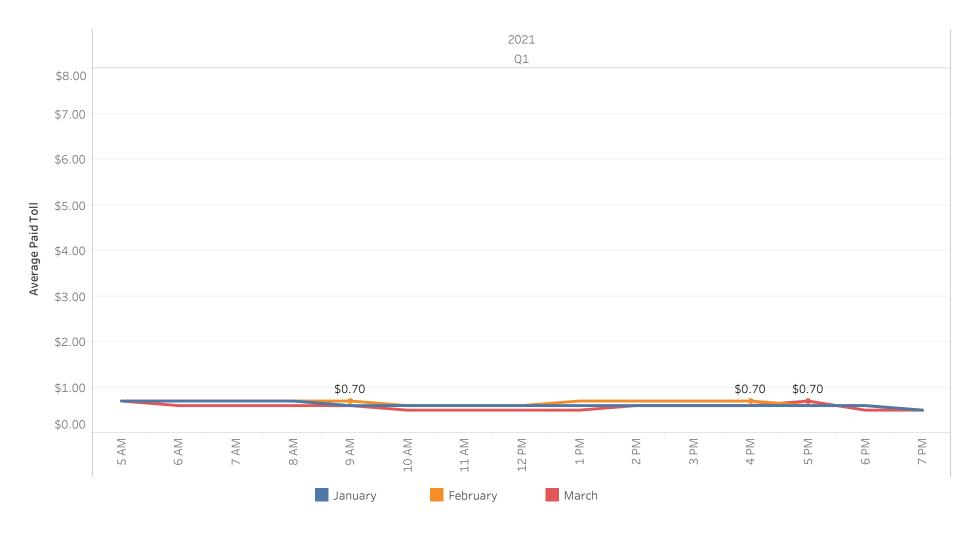
Demand for northbound express lane travel increased over the quarter. While northbound tolls paid to travel the entire corridor never reached \$10 in January, they did so on half of the tolling days in the second half of the quarter. Most (56%) of instances of \$10 tolls occurred between 4 and 6 p.m.



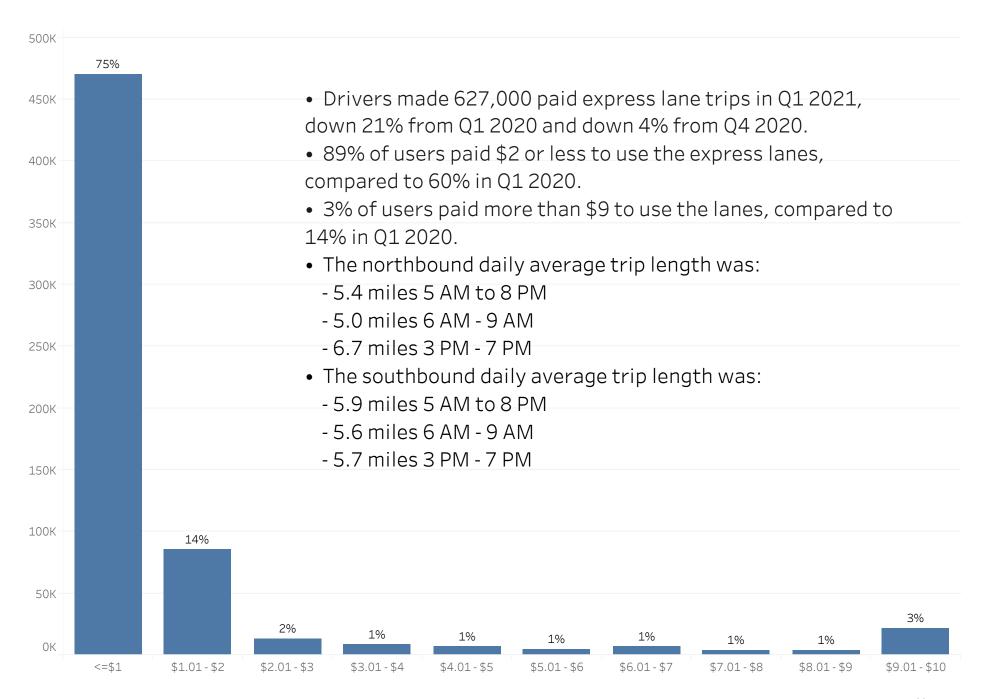
Southbound Tolls

The tolls drivers pay depend on traffic conditions and the distances traveled. Q1 2021 southbound average tolls paid were similar to Q4 2020 at \$0.50 to \$0.70.

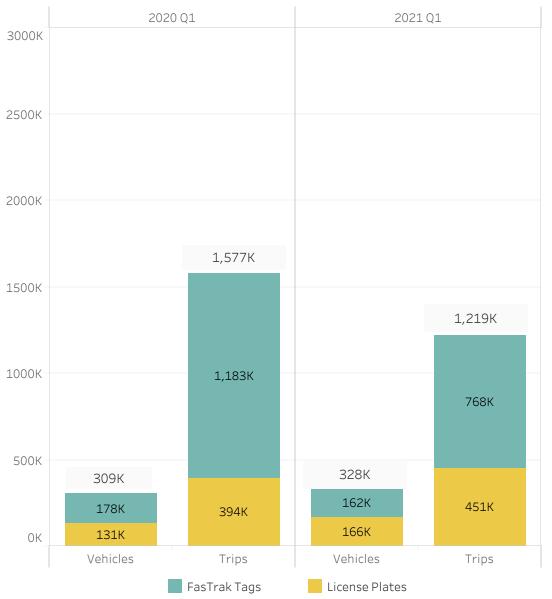
Easily flowing traffic due to COVID-19 kept southbound tolls consistently below \$1.75 throughout 90% of the tolling days in the quarter.



Toll Distribution



How Drivers Use the Lanes



In Q1 2021, 328,000 unique vehicles made about 1.2 million express lane trips. 162,000 of these vehicles (49%) carried toll tags and made 768,000 express lane trips (63% of trips) for an average of 4.7 trips per user. 166,000 of the unique vehicles (51%) did not carry toll tags and made 451,000 express lane trips (37% of trips) for an average of 2.7 trips per user. These trips were captured by license plate reads.

The 51% share of vehicles relying on license plate reads grew 8% from 43% in Q1 2020. The 37% share of trips made with license plate reads grew 12% from Q1 2020 when 25% of trips were license plate based. While the Q1 2021 shares are greater than Q1 2020, they are down from Q4 2020; -8% for vehicles and -1% for trips.

Of the 451,000 license plate trips made, about 30% were not matched to FasTrak accounts resulting in the 11% violation rate shown on page 5.



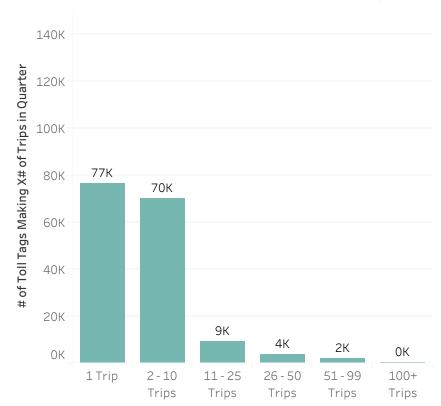
Lane Use Frequency

The graphs below show how frequently users made express lane trips.

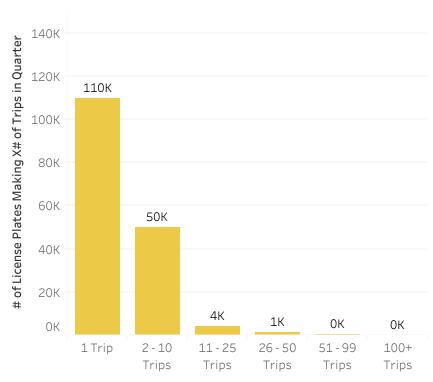
Of the 162,000 FasTrak tags observed in Q1 2021, 77,000 (48%) made just one trip, while another 70,000 (43%) made 2 to 10 trips in the quarter. Of the 166,000 license plates (without toll tags)* observed in Q1 2021, 127,000 (76%) made just one trip, while another 66,000 (39%) made 2 to 10 trips in the quarter.

Over 300 vehicles with toll tags made over 100 trips, and 71 license plate-only lane users made over 100 trips.

Toll Tag Lane Users - Trips Made per Tag



License Plate Lane Users* - Trips Made per Plate



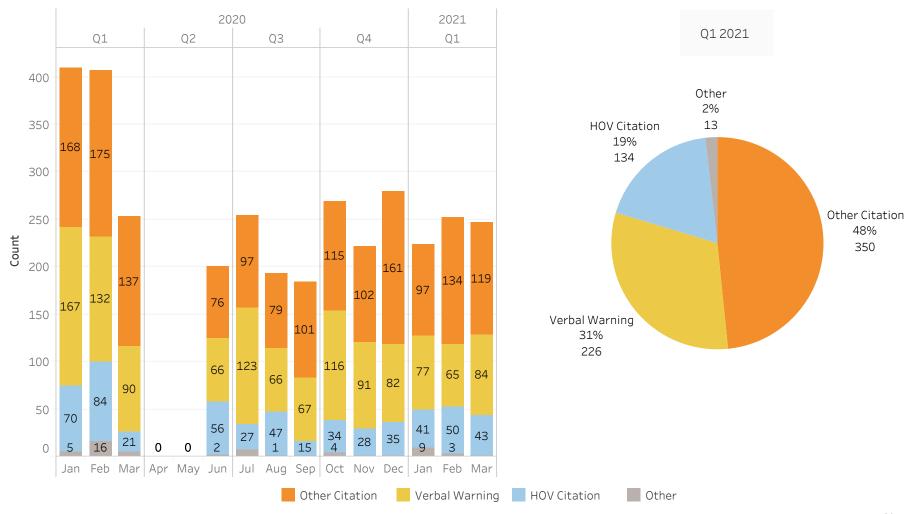


^{*}Includes violators and license plates matched to toll accounts.

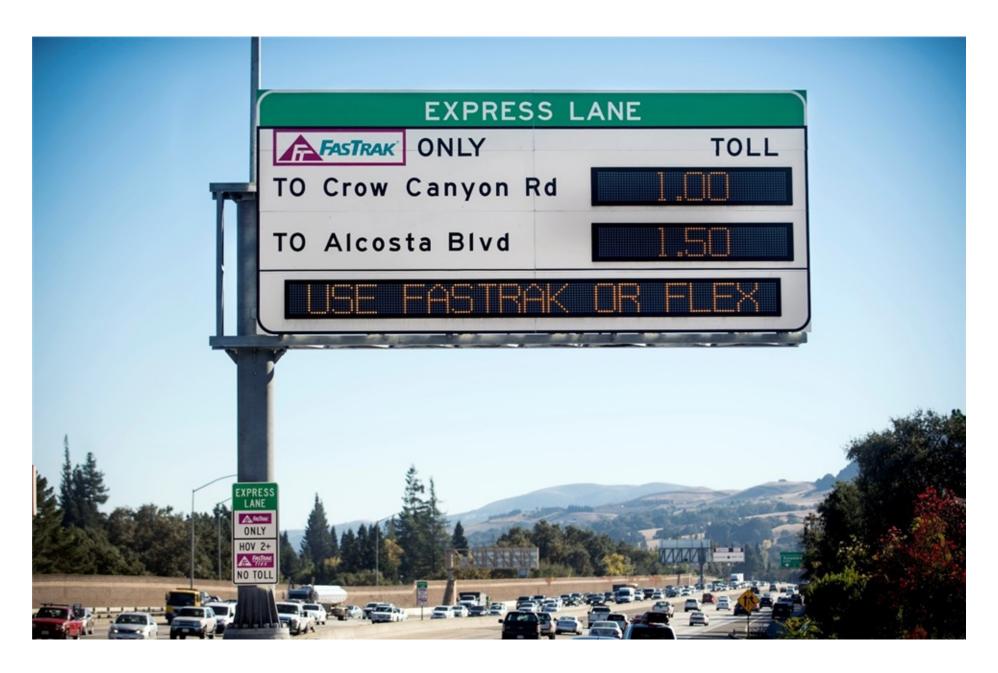
CHP Enforcement

CHP made 723 enforcement contacts in Q1 2021, 134 of them (19%) resulting in HOV occupancy citations. There were 32% fewer contacts and 23% fewer HOV occupancy citations than Q1 2020.

BAIFA requested fewer enforcement hours in Q1 2021 than in Q1 2020 due to COVID-19 related traffic decreases. CHP filled 90% of the requested hours resulting in 34% fewer enforcement hours in Q1 2021 than in Q1 2020. The Q1 2021 enforcement costs were \$72,115 for an average cost per enforcement contact of ~\$100.



For more information, go to: mtc.ca.gov/express-lanes

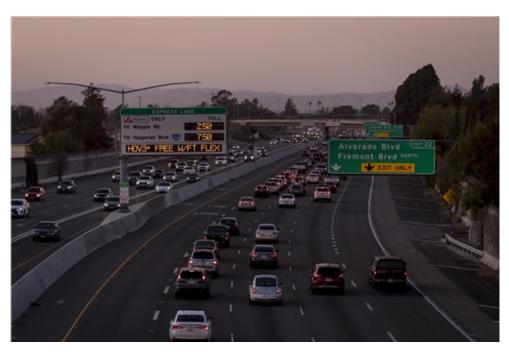


APPENDIX D

I-880 Alameda Express Lanes Operations Report

I-880 Express Lanes Performance 1st Quarter 2021: January - March





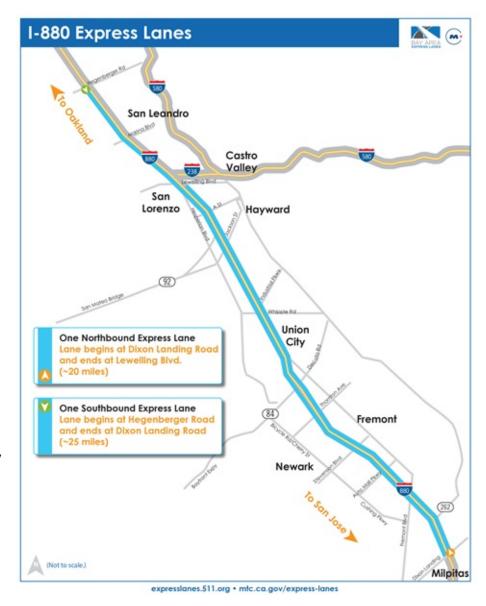






Rules of the Road

- Hours: 5 a.m. to 8 p.m. Monday Friday
- FasTrak® required
- Carpools (3+) and motorcycles travel toll-free with FasTrak Flex® toll tags.
- Carpools (2) pay half-price tolls with FasTrak Flex toll tags.
- Solo-drivers in eligible clean-air vehicles pay half-price tolls with FasTrak CAV toll tags.



Summary of Performance Highlights

Trips & Revenue

- In Q1 2021, about 2.6 million express lane trips were recorded in the I-880 Express Lanes, a slight decline from Q4 2020. Of these, 1.5 million were tolled trips that generated \$4.4 million in toll revenue.
- 24% of trips were toll-free, 9% were half-toll, 50% were full toll and 17% were toll violators without FasTrak. The violation rate, while high, fell from 22% in the prior quarter. High violation rates are common when express lanes are new and drivers are learning the tolling rules.



Speeds & Volumes

- Northbound, in the peak hour, express lane corridor-long average speeds were 20 to 23 mph faster than the general purpose lane speeds. Southbound, they were 14 to 16 mph faster.
- At the most congested northbound location, express lanes speeds dropped below 45 mph on 29 of the 64 days (45%) in the quarter. Southbound, the most congested location saw express lane speeds drop below 45 mph on 5 days (8%).
- In the most congested northbound toll zone, maximum lane volumes rose over Q4 2020 3% in the general purpose lanes and 6% in the express lane. Southbound, they rose 2% in the general purpose lanes but fell 5% in the express lane.

Tolls

- Average monthly tolls paid peaked northbound from 3 4 p.m. between \$3.10 and \$4.40. Southbound, they peaked from 6 7 a.m. between \$2.20 and \$3.00.
- Tolls to travel the whole corridor exceeded \$15 in both the north and southbound directions, but fewer than 1% of drivers paid this price. 52% of tolled trips were \$2 or less.



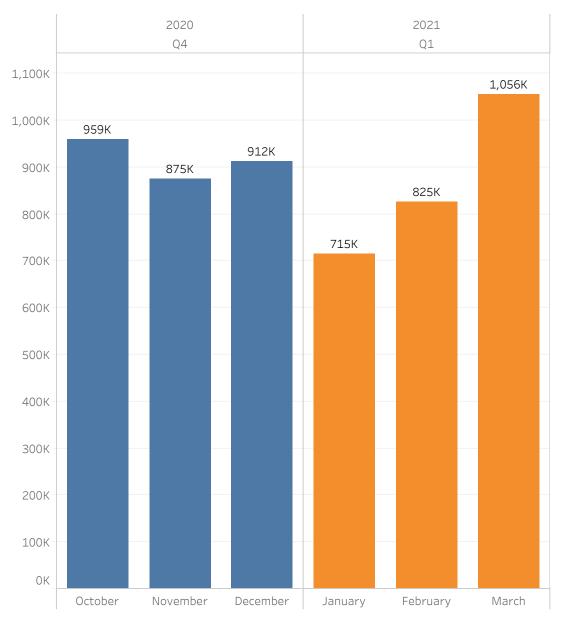
Enforcement

• CHP made 1,832 enforcement contacts in Q1 2021, 6% of which resulted in HOV occupancy citations and 29% in double-white line citations. CHP filled 57% of the hours requested by BAIFA.

Lane Users

- An estimated 512,000 unique vehicles made trips in the 880 express lanes; 48% (247,000) with a toll tag in the vehicle and 52% (265,000) without. License plates were used to record trips of the latter.
- Vehicles carrying FasTrak toll tags made an average of 6.6 trips per vehicle in the quarter, while vehicles identified by license plate made an average of 3.6 trips.

Express Lane Trips

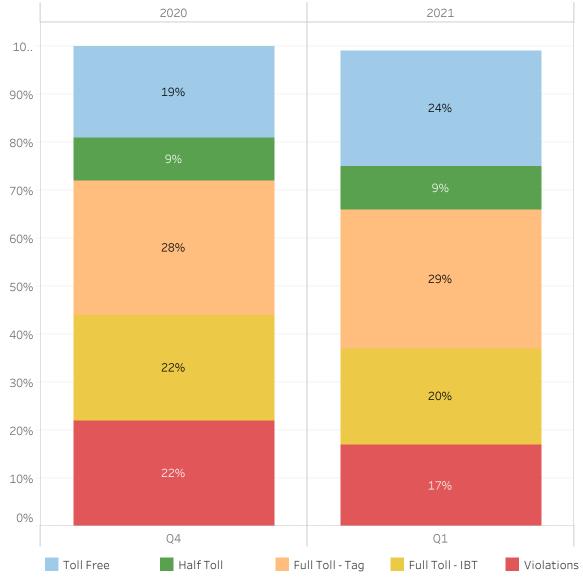


In the first six months of express lane operations on I-880, about 5.3 million express lane trips have been made, an average of 42,000 daily trips.

5% fewer trips were taken in Q1 2021 than in Q4 2020. COVID-19 stay-at-home orders affected both quarters for equal durations*, so the reason for the decline is unclear. March 2021, however, recorded the highest number of monthly express lane trips since tolling began.

*Orders were announced December 3, 2020 and lifted January 25, 2021

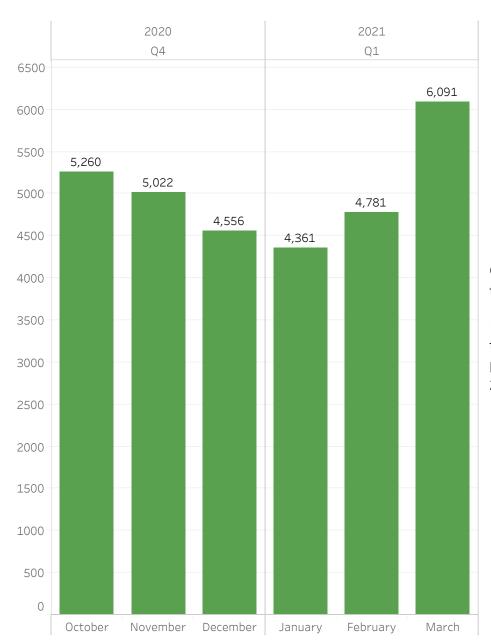
Express Lane Trip Types



- The share of toll-free trips was 24% in Q1 2021, up from 19% in Q4 2020. Toll-free trips are made by 3+ carpools, motorcycles, and vehicles with non-revenue toll tags (e.g., police vehicles).
- Half-toll trips were 9% of trips. Half-toll trips are made by single-occupant Clean Air Vehicles (CAV) and 2-person carpools.
- Full-toll trips were 49% of the express lane trips made this quarter 29% by drivers with toll tags and 20% by drivers whose license plates were captured and matched to FasTrak accounts (Image-based Trips or IBT). Full-toll trips are made by non-CAV single-occupant vehicles.
- Violations occur when image-based trips are not matched to FasTrak accounts. In Q1 2021, 17% of trips were violations, a decline from 22% in Q4 2020. High violation rates are typical when express lanes are new and drivers are learning the rules.

[&]quot;Toll Free" trips are recorded by FasTrak Flex tags set at 3+. "Half-Toll" trips are recorded by FasTrak Flex tags set at 2 or by CAV tags. "Full Toll - Tag" trips are recorded by FasTrak Flex tags set at 1 or standard FasTrak tags. "Full Toll - IBT" trips are license plate images matched to FasTrak accounts. "Violations" trips are license plate images not matched to FasTrak accounts.

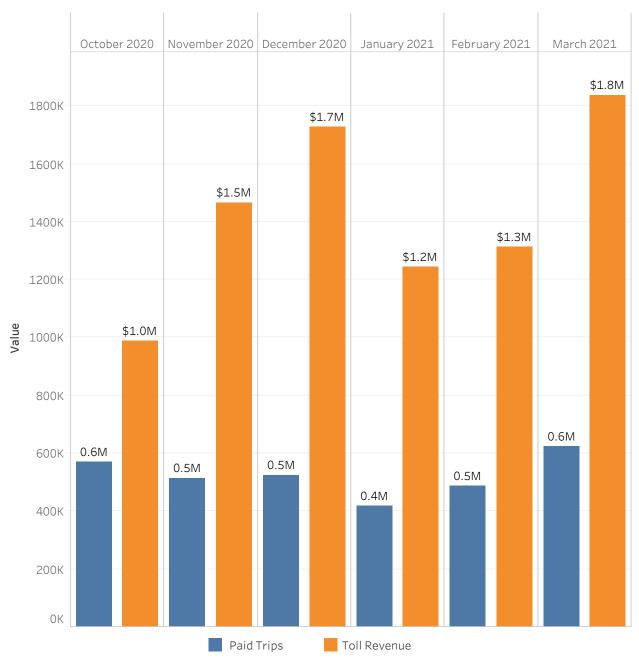
Express Lane Clean Air Vehicle Trips



Clean Air Vehicles (CAV) are required to carry FasTrak CAV toll tags to use the I-880 Express Lanes at a discount.

In Q1 2021, about 15,000 FasTrak CAV tag trips were recorded, less than 1% of all trips. These tags could have been set in the 1, 2 or 3+ position based on the number of people in the car. Solo and 2-person CAVs pay half-price tolls. 3+ person CAVs travel toll free.

Express Lane Toll Revenue & Paid Trips



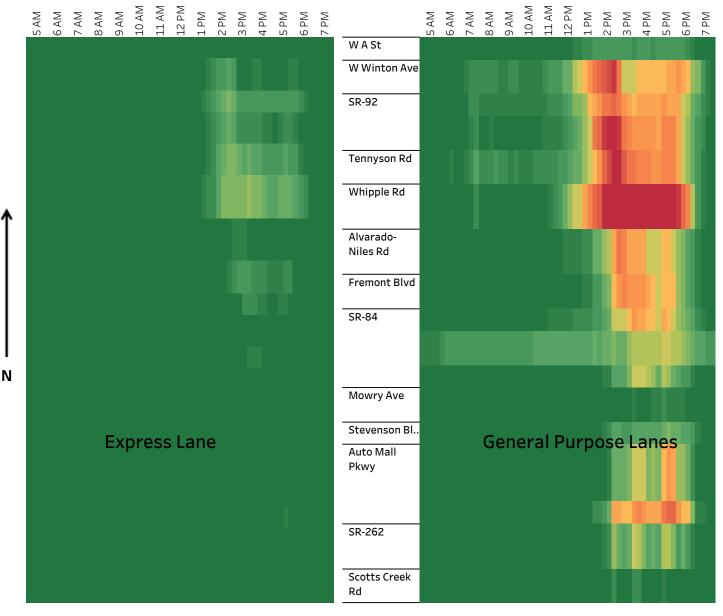
- In Q1 2021, 1.5 million paid express lane trips generated \$4.4 million in toll revenue.
- In Q4 2020, 1.6 million paid express lane trips generated \$4.2 million in toll revenue.

Notes

Toll revenue represents tolls collected and does not include violation fees.

Quaterly revenue reflects the date revenue was recorded in MTC's financial system, which can lag from the time the trip was made.

Northbound Speeds by Location & Time



Northbound Q1 2021 average express lane speeds were 50 mph or better.

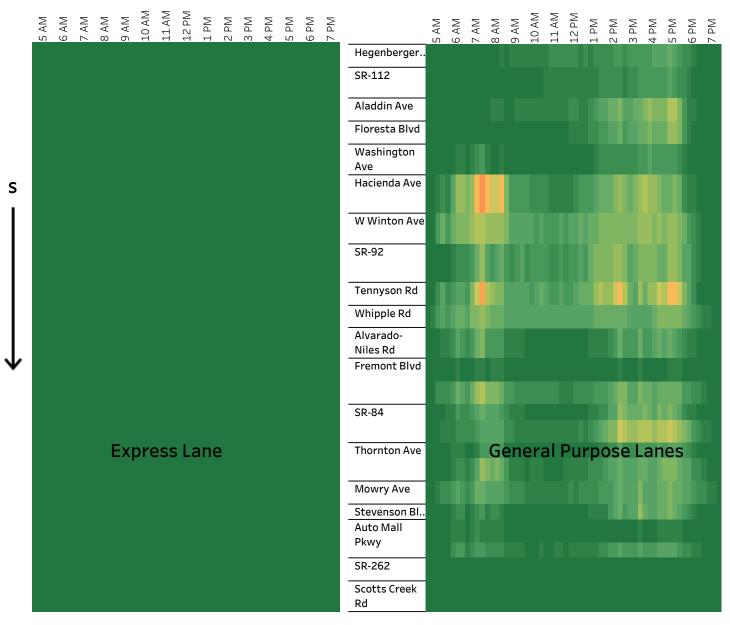
Northbound Q1 average general purpose lane speeds were lowest at the northern end of the corridor in the p.m. hours, especially around Whipple Rd., often falling to the high 20's mph range as early as 1 p.m.

Speed (MPH)

25.00

65.00

Southbound Speeds by Location & Time



Southbound Q1 2021 average express lane speeds did not dip below 65 mph.

Southbound Q1 2021 average general purpose lane speeds occasionally fell into the 40 mph range in select locations in both the a.m. and p.m. There was no pronounced southbound peak.

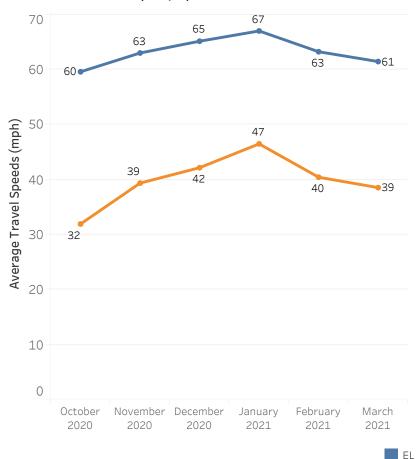
Speed (MPH)

25.00

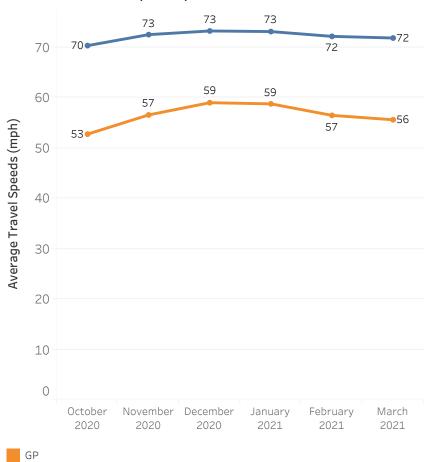
Peak Hour Average Corridor Speeds

The northbound peak traffic occurred between 3 and 4 p.m. Southbound, it occurred between 8 and 9 a.m. In Q1 2021, northbound peak hour average express lane corridor speeds were 20 to 23 mph faster than the average general purpose lane corridor speeds. Southbound, they were 14 to 16 mph faster.

Northbound Peak Hour (3 - 4pm) - Corridor



Southbound Peak Hour (8 - 9am) - Corridor



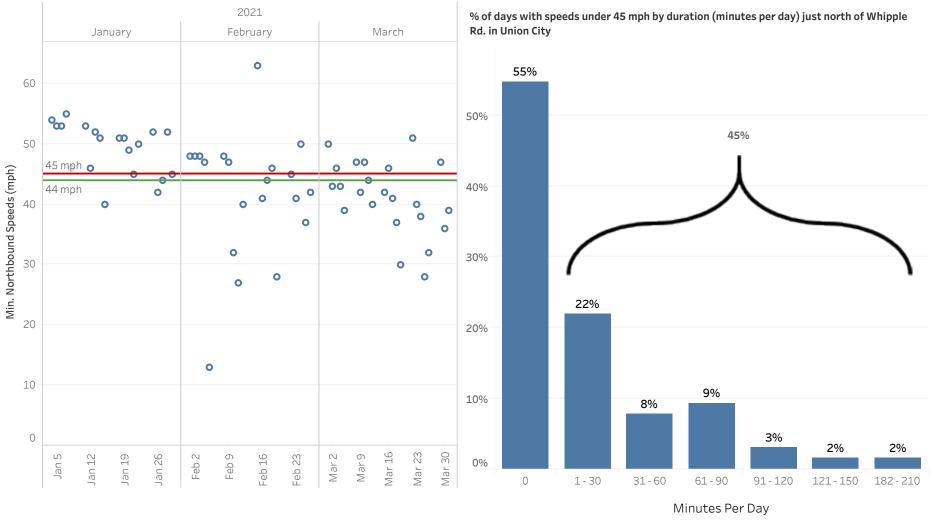
Speeds are averaged over the distance of the express lane. Peak hours are defined as the hours with lowest average corridor speeds across all lanes.



Lowest NB Exp Lane Speed - Whipple Rd.

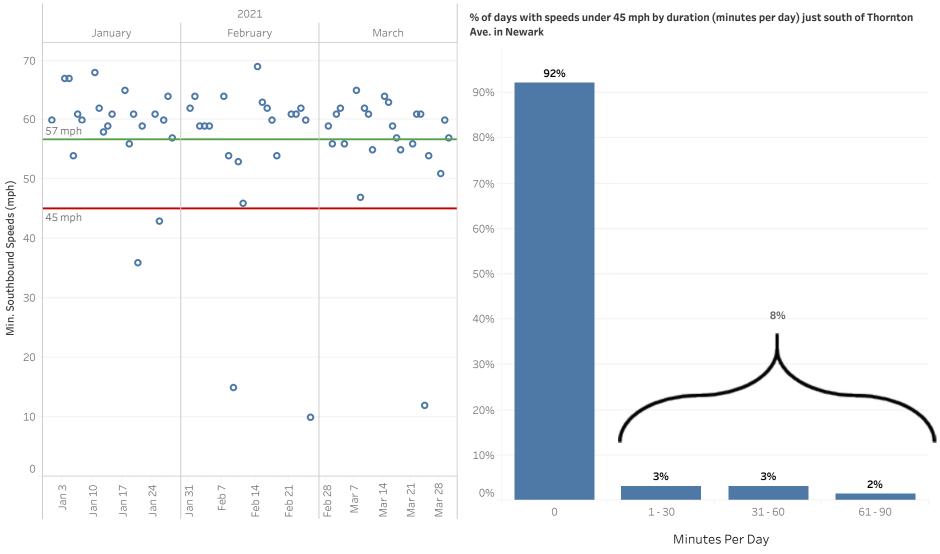
Northbound express lane traffic speeds were slowest around Whipple Rd. At this location, the lowest daily express lane speed averaged 44 mph and fell below 45 mph on 29 of the 64 days (45%) in the quarter. The heat map on page 7 shows that general purpose lane average speeds at this location were below 30 mph for most of the p.m. hours.

The incidences of slow speeds increased over the course of the quarter, a 4.3 fold increase in March compared to January. The incidences lasted longer than an hour on 16% of days in the quarter.



Lowest SB Exp Lane Speed - Thornton Ave.

Southbound express lane traffic speeds were slowest around Thornton Ave. The lowest daily express lane speed at this location averaged 57 mph and fell below 45 mph on 5 of the 64 days (8%) in the quarter. The speed decline lasted 1 to 30 minutes on 3% of days and between 61 to 90 minutes on 5% of days.



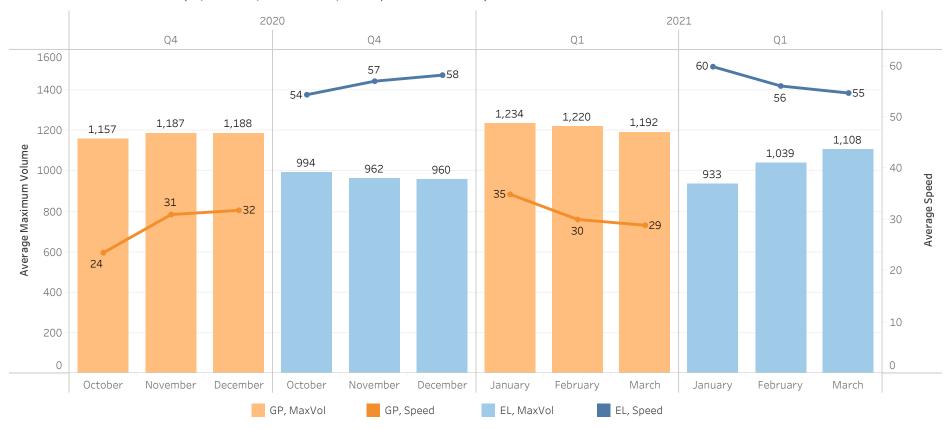
NB Peak Traffic - Volume & Speed

The graphs below show maximum traffic volume and speed in the general purpose lanes (orange bars and lines) and the express lane (blue bars and lines) in the most congested northbound toll zone in the most congested hour (Whipple Rd. to Hesperian Blvd.; 3 - 4 p.m.). Bars show average maximim vehicle volumes and lines show average speeds.

The general purpose lanes exhibit low speeds (orange lines) coupled with lane volumes below capacity (orange bars), indicating that traffic was very heavy at this hour in this toll zone. The express lane (blue), however, flowed well with Q1 2021 average maximum lane volumes about 15% lower and speeds 84% higher than the general purpose lanes.

From Q4 2020 to Q1 2021, average maximum volume increased 3% in the general purpose lanes and 6% in the express lane.

Northbound Peak Hour (3 p.m. - 4 p.m. in Hesperian/238 Toll Zone)





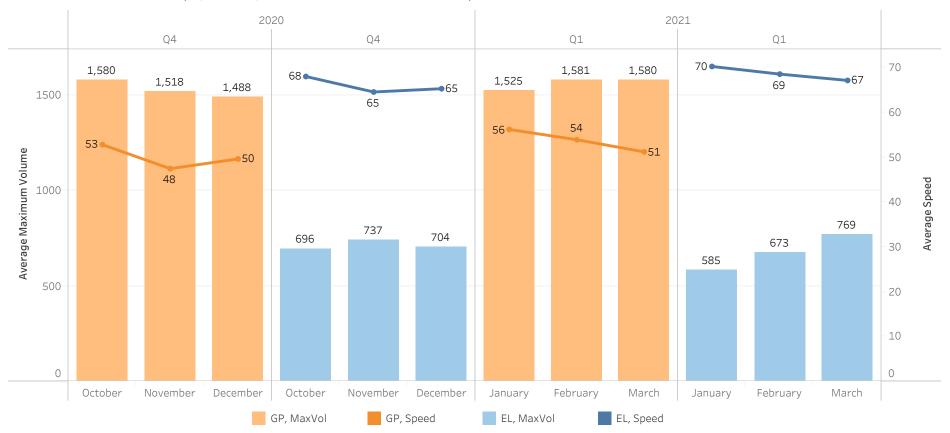
SB Peak Traffic - Volume & Speed

The graphs below show maximum traffic volume and speed in the general purpose lanes (orange bars and lines) and the express lane (blue bars and lines) in the most congested southbound toll zone in the most congested hour (Thornton Ave. to Auto Mall Parkway; 5 - 6 p.m.). Bars show average maximim vehicle volumes and lines show average speeds.

Express lane average maximum volume was less than half than in the general purpose lanes, and the the express lane traveled 28% faster than the general purpose lanes.

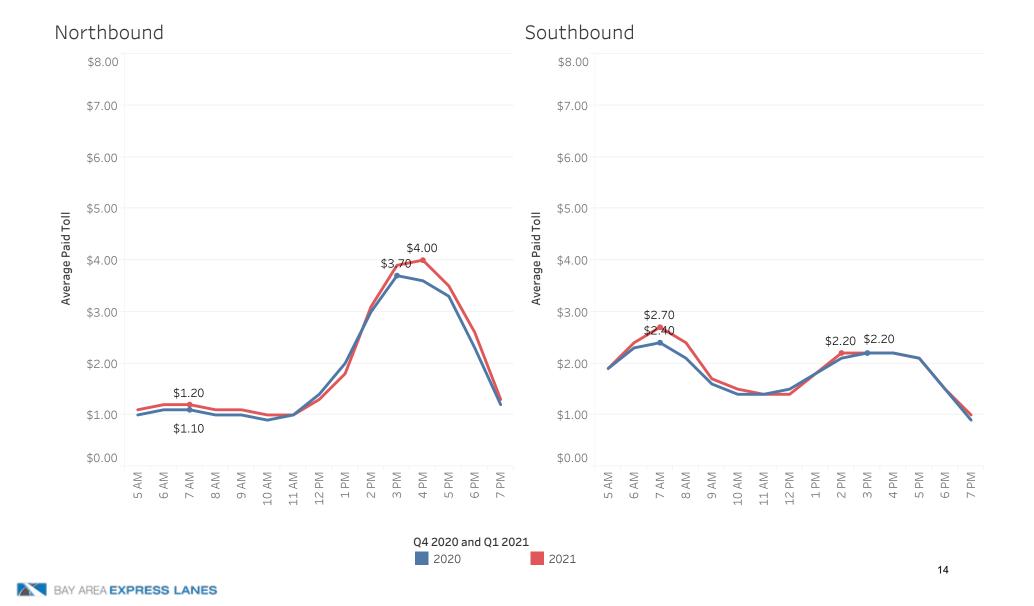
From Q4 2020 to Q1 2021, average maximum volume increased 2% in the genral purpose lanes and fell 5% in the express lane.

Southbound Peak Hour (5 p.m. - 6 p.m. in Auto Mall SB Toll Zone)



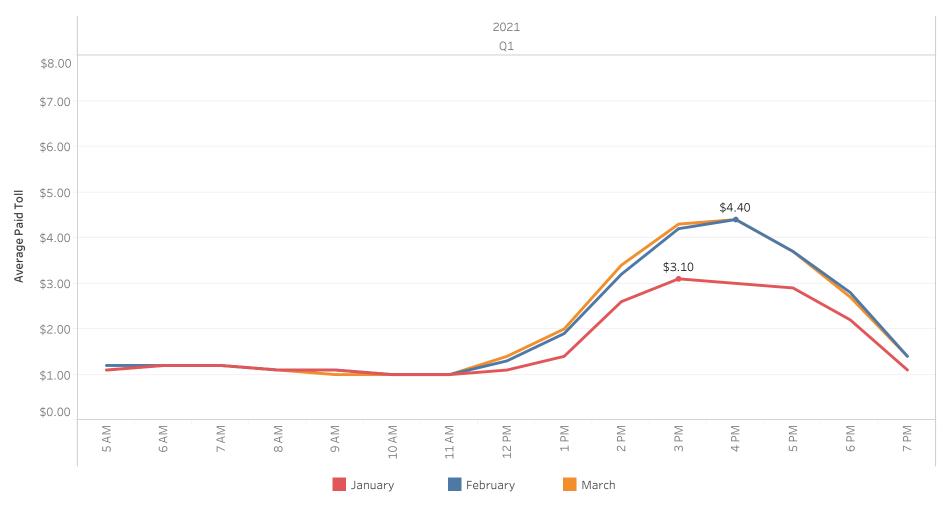
Quarterly Average Tolls Paid

Q1 2021 average tolls paid northbound peaked at \$4.00 in the 4 to 5 p.m. hour, slightly higher than in Q4 2020 (\$3.70 between 3 and 4 p.m). The southbound a.m. highest average tolls paid were \$2.70, also slightly higher than in Q4 2020 (\$2.40). The highest southbound tolls paid occurred between 7 and 8 a.m.



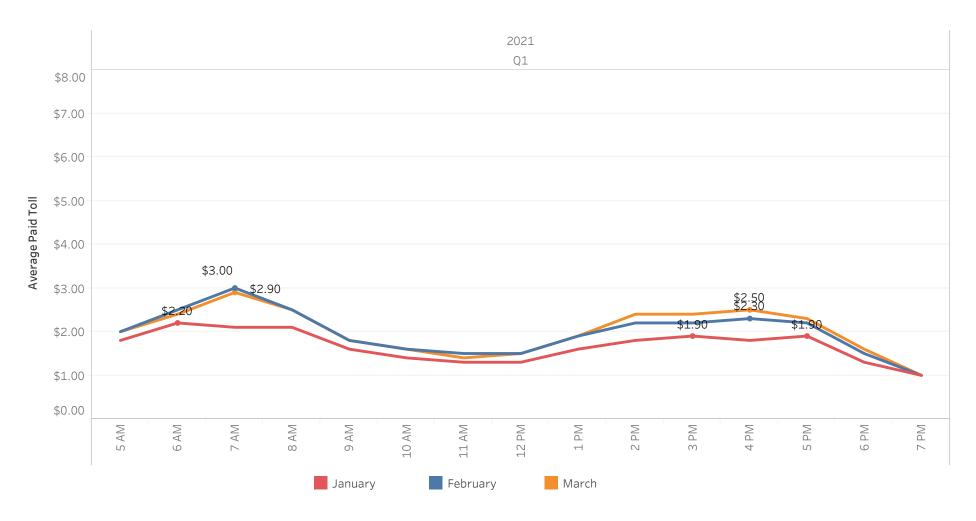
Northbound Tolls

The tolls drivers pay depend on traffic conditions and the distances traveled. Northbound, average tolls paid peaked between \$3.10 (January) and \$4.40 (February & March) between 3 and 5 p.m. Traveling the entire corridor northbound, the highest paid tolls exceeded \$15 on 16 of the 64 tolling days in the quarter. The highest paid tolls occurred between 3 and 5 p.m.

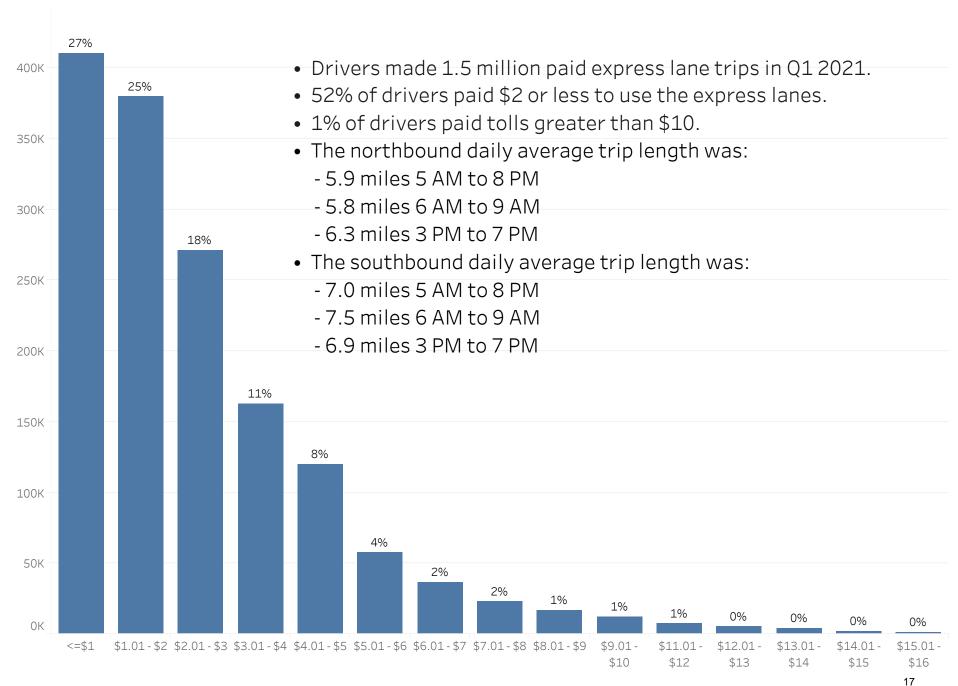


Southbound Tolls

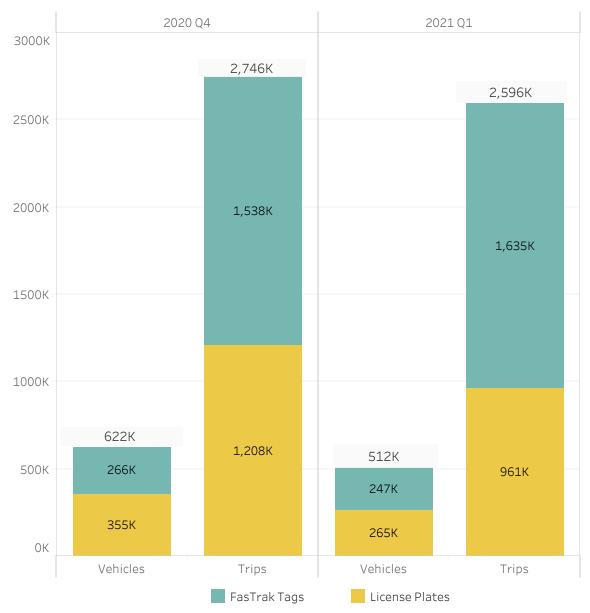
The tolls drivers pay depend on traffic conditions and the distances traveled. Southbound tolls paid peaked between \$2.20 (January) and \$3.00 (February) between 6 and 8 a.m. Traveling the entire corridor southbound, drivers paid tolls greater than \$15 on 4 of the 64 tolling days in the quarter. The highest tolls paid occurred between 7 and 8 a.m. and between 2 and 5 p.m.



Toll Distribution



How Drivers Use the Lanes



In Q1 2021, 512,000 unique vehicles made about 2.6 million express lane trips. 247,000 of these vehicles (48%) carried toll tags and made 1,635,000 express lane trips (63% of trips) for an average of 6.6 trips per user. 265,000 of the unique vehicles (52%) did not carry toll tags and made 961,000 express lane trips (37% of trips) for an average of 3.6 trips per user. These trips were captured by license plate reads.

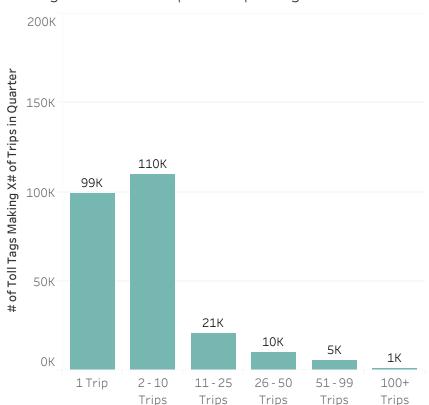
Vehicles relying on license plate reads fell 25% from Q4 2020, but continued to represent over half of lane users. Of the 961,000 license plate trips made by these drivers, almost half were not matched to FasTrak accounts resulting in the 17% violation rate shown on page 4. High violation rates are typical of new toll lanes as drivers get used to the rules. The high rates could also be influenced by the unique COVID environment where less CHP enforcement could be lessening rule compliance.

Lane Use Frequency

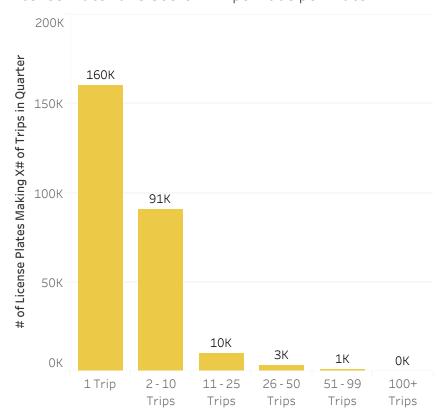
The graphs below show how frequently users made express lane trips.

Of the 247,000 FasTrak tags observed in Q1 2021, 99,000 (40%) made just one trip, while another 110,000 (45%) made 2 to 10 trips in the quarter. Of the 265,000 license plates (without toll tags)* observed in Q1 2021, 160,000 (60%) made just one trip, while another 91,000 (34%) made 2 to 10 trips in the quarter. Over 1,100 vehicles with toll tags made over 100 trips, and 164 license plate-only lane users made over 100 trips.

Toll Tag Lane Users - Trips Made per Tag



License Plate Lane Users* - Trips Made per Plate



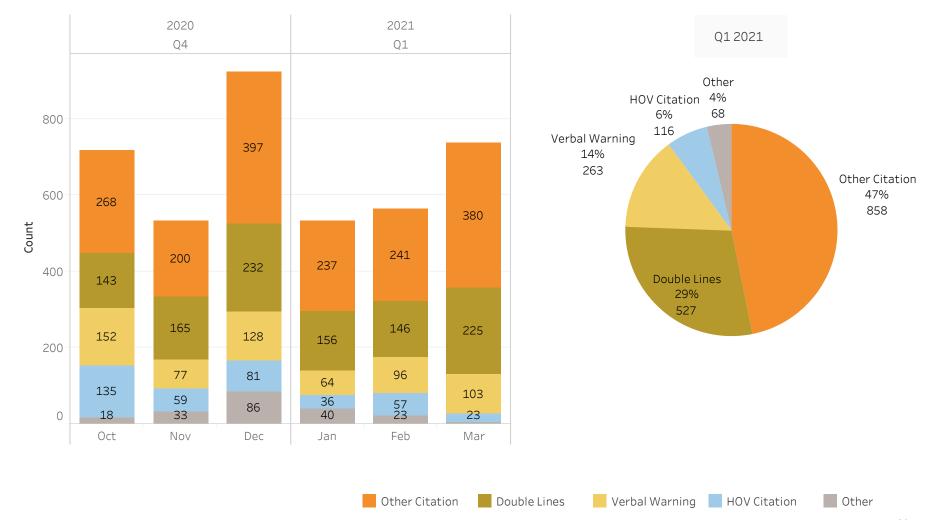


^{*}Includes violators and license plates matched to toll accounts.

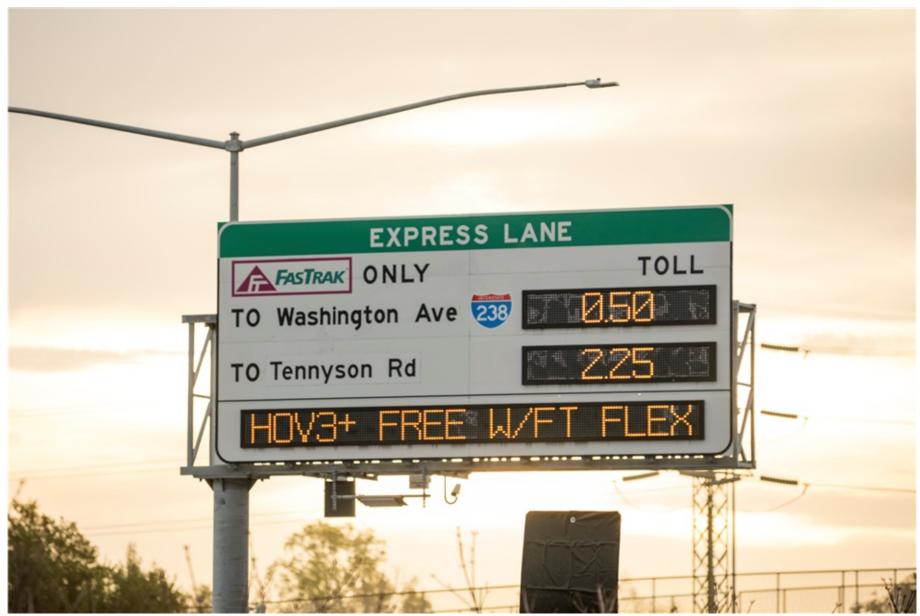
CHP Enforcement

CHP made 1,832 enforcement contacts in Q1 2021, 116 of them (6%) resulting in HOV occupancy citations and 527 of them (29%) resulting in citations for crossing double-white lines.

CHP filled 57% of the hours requested by BAIFA. The Q1 2021 enforcement costs were around \$178,000, for an average cost per enforcement contact of ~\$97.



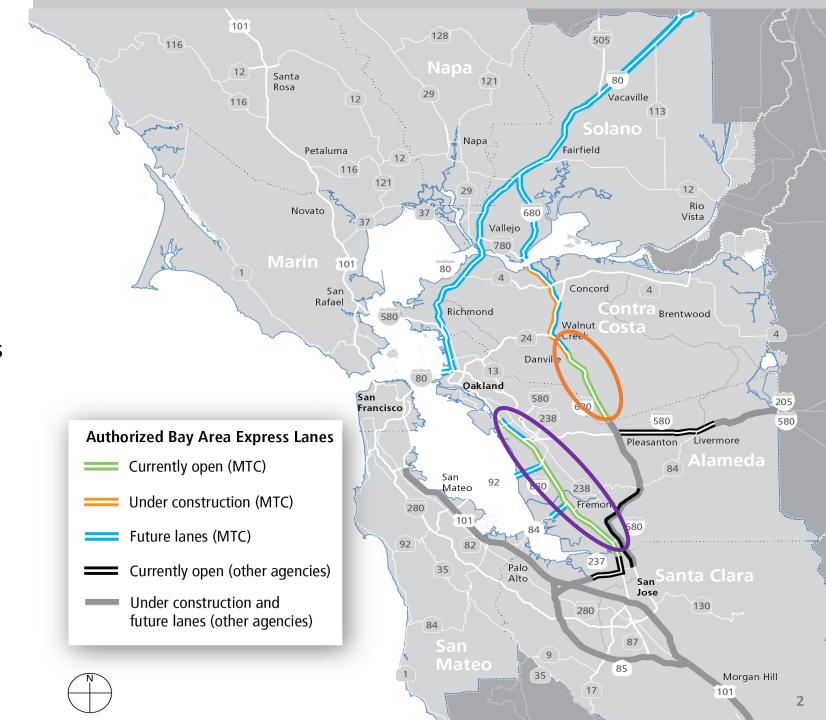
For more information, go to: mtc.ca.gov/express-lanes





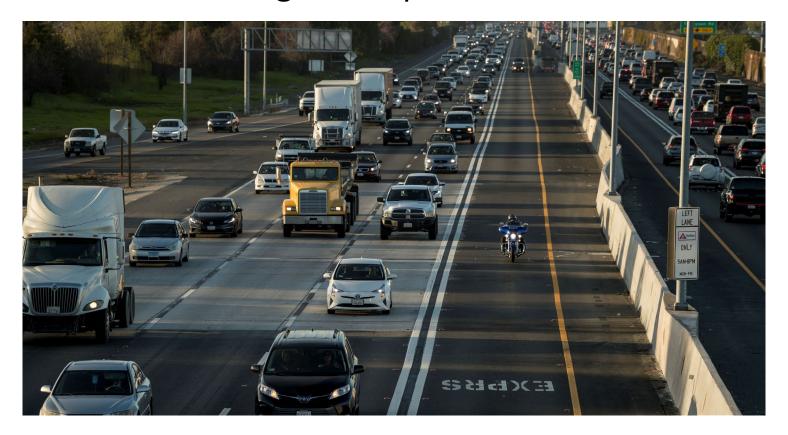
Overview

- I-880 Express Lanes
 - Early pre- and post-tolling data
- I-680 Contra Costa Express Lanes
 - Impact of COVID
- Next steps



BAIFA Express Lanes Operational Goal

Provide a reliable, congestion-free lane for buses, carpools and toll-paying single-occupant vehicles



I-880 Managed Lanes Policies

	Before October 2, 2020	Present Condition	
Managed Lane Status	HOV Lanes	Express Lanes	
Occupancy Policy	2+ carpools	3+ toll free; 2-person: half toll; Solo drivers: full toll	
Clean Air Vehicle (CAV) Policy	CAV – allowed	CAV must use FasTrak; Solo CAV driver: half toll	
Hours	Monday – Friday: 5 – 9 AM & 3 – 7 PM	Monday – Friday: 5 AM – 8 PM	
FasTrak Policy	No FasTrak tag requirements	Discounted travelers require FasTrak Flex or FasTrak CAV tag	
Lane Access Restrictions	None – dashed line	Double white lines for approximately half the corridor length	

880 Lane Performance Measures

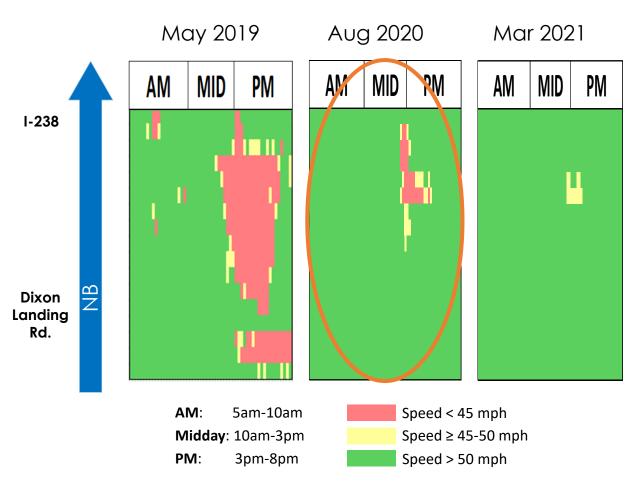
Measure	Data Source	Data Notes
1. Traffic Speed	Toll System Data (Wavetronix)	System data – Reliable
2. Vehicle Throughput	Toll System Data	System data – Reliable
3. Vehicle Occupancy & Vehicle Type (observed)	Manual Vehicle Occupancy Counts	Challenging to collect with 100% accuracy
4. Vehicle Occupancy (declared)	Toll System Data	System data – Reliable Declaration itself relies on driver honesty

Before Data: August 2020

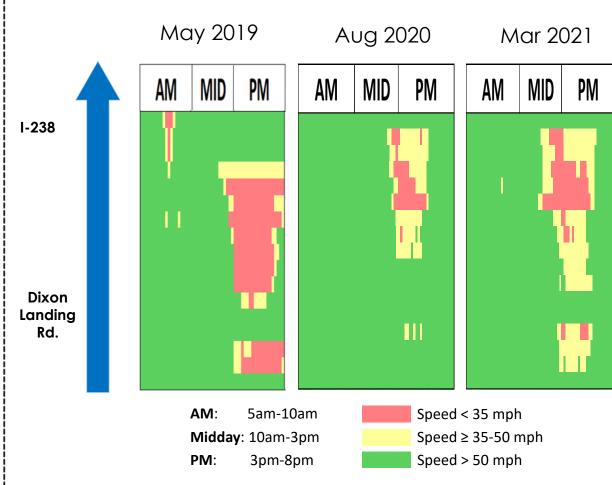
After Data: March 2021

Northbound Managed Lane Speed Increased

Managed Lane



General Purpose Lanes

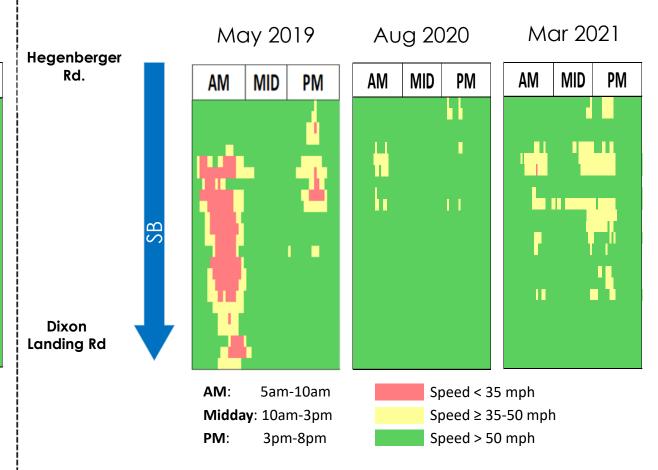


^{*} Based on Wavetronix toll system data for typical weekdays (Tuesdays-Thursdays)

Southbound Managed Lane Speed Maintained

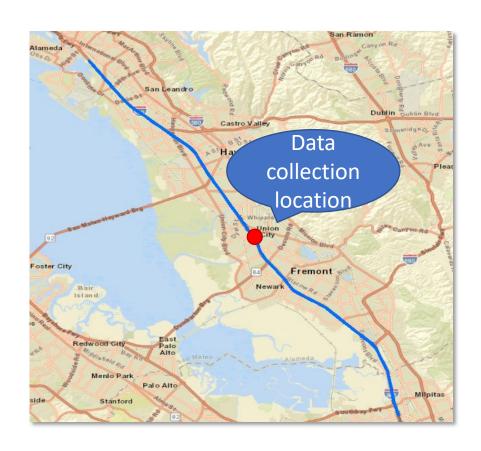
Managed Lane May 2019 Aug 2020 Mar 2021 Hegenberger MID AM MID PM MID PM AM PM AM Rd. ш **Dixon Landing Rd** AM: 5am-10am Speed < 45 mph Midday: 10am-3pm Speed ≥ 45-50 mph PM: 3pm-8pm Speed > 50 mph

General Purpose Lanes



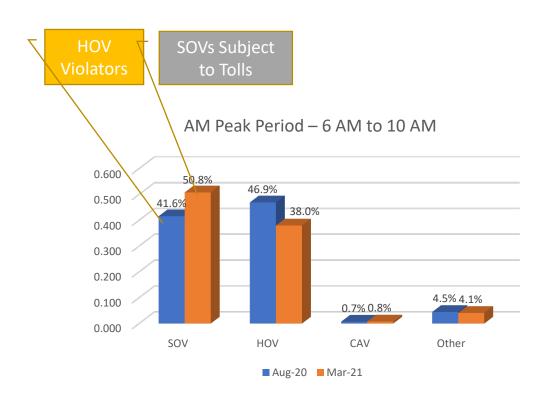
^{*} Based on Wavetronix toll system data for typical weekdays (Tuesdays-Thursdays)

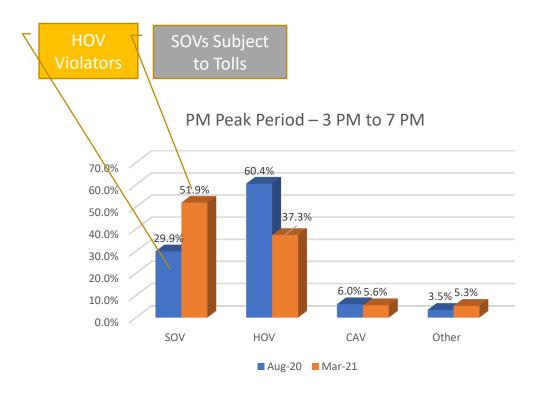
Vehicle Throughput Maintained; Vehicle Shift in Lanes



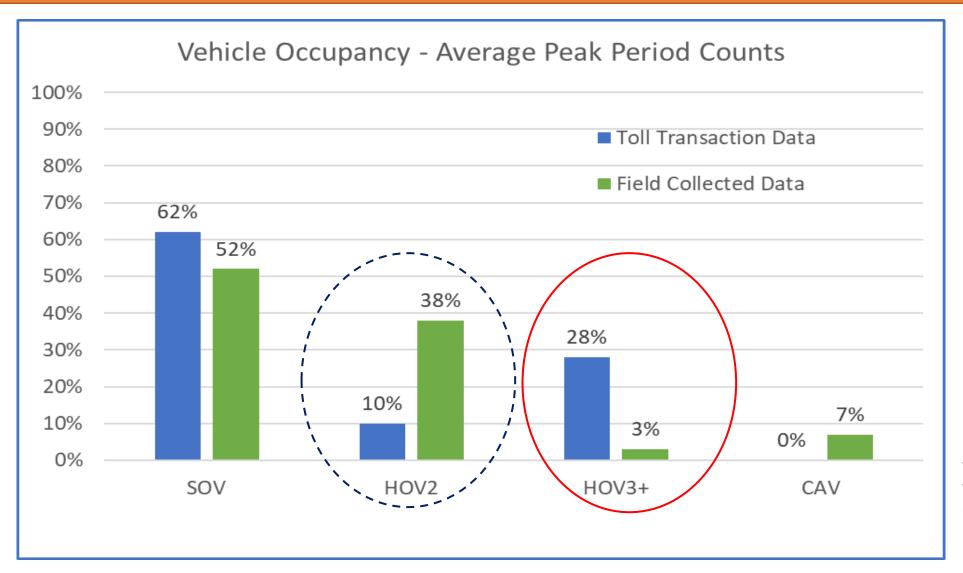
AM Peak Period (6-10a)				
	Lane Group	Throughput (Veh/Hr)		
	Latte Group	Aug-20	Mar-21	Difference
Northbound	EL	2.4 K	1.6 K	-34%
	GP	18.0 K	19.7 K	9%
	Corridor	20.4 K	21.2 K	4%
Southbound (peak dir)	EL	4.6 K	4.3 K	-7%
	GP	21.7 K	22.2 K	2%
	Corridor	26.3 K	26.5 K	1%
PM Peak Period (3-7p)				
	Lane Group	Throughput (Veh/Hr)		
	Latte Group	Aug-20	Mar-21	Difference
Northbound (peak dir)	HOV/EL	5.6 K	4.7 K	-16%
	GP	22.0 K	22.3 K	1%
	Corridor	27.6 K	27.0 K	-2%
Southbound	EL	3.8 K	3.2 K	-16%
	GP	20.8 K	21.0 K	1%
	Corridor	24.6 K	24.2 K	-2%

Managed Lane Vehicle Occupancy - High HOV violations before tolling and carpool decline after tolling





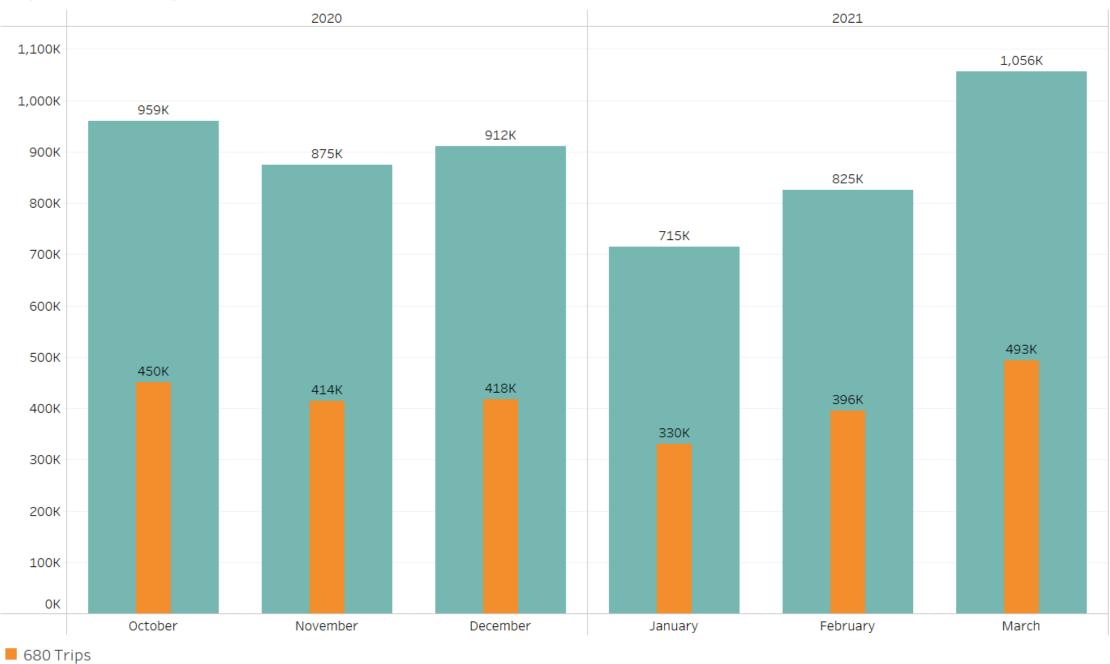
Express Lane Vehicle Occupancy - More claim toll-free status than observed



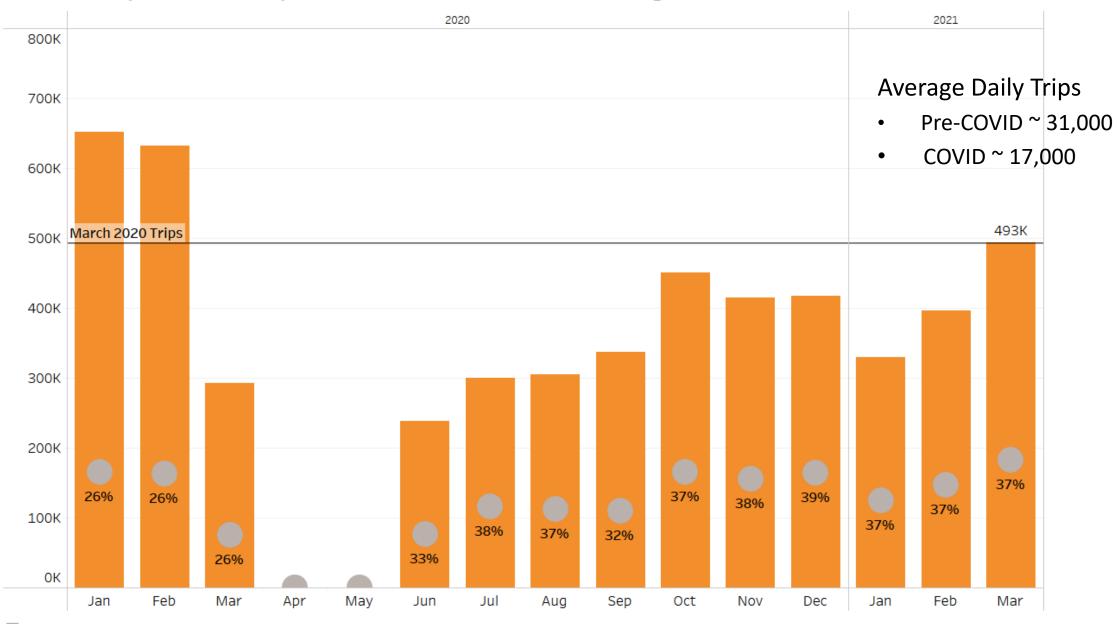
Note: License Plate trips registered by the toll system are counted as SOV trips

Express Lane Trips: I-680 CC and I-880

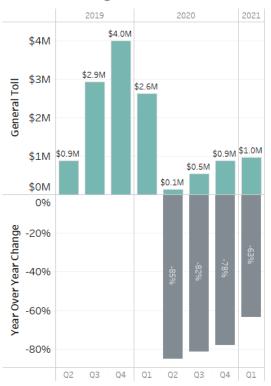
■ 880 Trips

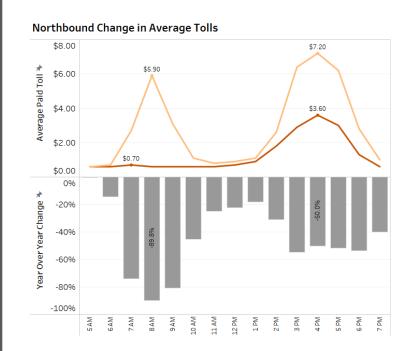


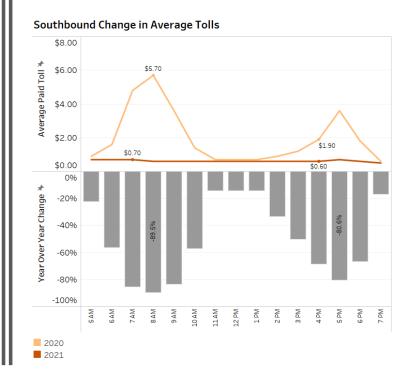
I-680 CC Express Lane Trips + Share Made Without a Toll Tag



Quarterly General Toll Revenue & Year Over Year Change







680 Tolls

680 Contra Costa General Toll Revenue & Fees



Violation Fees



 The I-880 Express Lanes are congestion free and faster than the general purpose lanes, offering an advantage to carpools and buses

As expected, incorrect toll tag settings is a challenge

 Toll tag use is declining relative to license plate reads



Action Items







- On-corridor messaging
- Marketing: GET, SET, GO!
- CHP Partnership
- FasTrak Equity Action Plan















BAIFA Express Lanes Performance

