



I-580 Express Lane Policy Committee Special Meeting Agenda Monday, October 14, 2019, 10:00 a.m.

Committee Chair:	Nate Miley, Alameda County, District 4	Executive Director:	Arthur L. Dao
Vice Chair:	David Haubert, City of Dublin	Staff Liaison:	Elizabeth Rutman
Members:	Scott Haggerty, John Marchand, Jerry Thorne	Clerk of the Commission:	Vanessa Lee
Ex-Officio:	Richard Valle, Pauline Cutter		

1. Call to Order/Pledge of Allegiance

2. Roll Call

3. Public Comment

4. Consent Calendar

Page/Action

4.1. [Approve September 9, 2019 I-580 Express Lane PC Meeting Minutes](#) 1 A

5. Regular Matters

5.1. [I-580 Express Lanes \(PN 1373.002\): Monthly Operations Update](#) 5 I

6. Committee Member Reports

7. Staff Reports

8. Adjournment

Next Meeting: Monday, January 13, 2020

Notes:

- All items on the agenda are subject to action and/or change by the Commission.
- To comment on an item not on the agenda (3-minute limit), submit a speaker card to the clerk.
- Call 510.208.7450 (Voice) or 1.800.855.7100 (TTY) five days in advance to request a sign-language interpreter.
- If information is needed in another language, contact 510.208.7400. Hard copies available only by request.
- Call 510.208.7400 48 hours in advance to request accommodation or assistance at this meeting.
- Meeting agendas and staff reports are available on the [website calendar](#).
- Alameda CTC is located near 12th St. Oakland City Center BART station and AC Transit bus lines. [Directions and parking information](#) are available online.



Alameda CTC Schedule of Upcoming Meetings for October 2019 through December 2019

Commission Chair

Supervisor Richard Valle, District 2

Commission Vice Chair

Mayor Pauline Cutter,
City of San Leandro

AC Transit

Board Vice President Elsa Ortiz

Alameda County

Supervisor Scott Haggerty, District 1
Supervisor Wilma Chan, District 3
Supervisor Nate Miley, District 4
Supervisor Keith Carson, District 5

BART

Vice President Rebecca Saltzman

City of Alameda

Mayor Marilyn Ezzy Ashcraft

City of Albany

Mayor Rochelle Nason

City of Berkeley

Mayor Jesse Arreguin

City of Dublin

Mayor David Haubert

City of Emeryville

Councilmember John Bauters

City of Fremont

Mayor Lily Mei

City of Hayward

Mayor Barbara Halliday

City of Livermore

Mayor John Marchand

City of Newark

Councilmember Luis Freitas

City of Oakland

Councilmember At-Large
Rebecca Kaplan
Councilmember Sheng Thao

City of Piedmont

Mayor Robert McBain

City of Pleasanton

Mayor Jerry Thorne

City of Union City

Mayor Carol Dutra-Vernaci

Executive Director

Arthur L. Dao

Commission and Committee Meetings

Time	Description	Date
8:30 a.m.	Finance and Administration Committee (FAC)	November 18, 2019
9:30 a.m.	I-680 Sunol Smart Carpool Lane Joint Powers Authority (I-680 JPA)	November 18, 2019 Cancelled
10:00 a.m.	I-580 Express Lane Policy Committee (I-580 PC)	
10:30 a.m.	Planning, Policy and Legislation Committee (PPLC)	
12:00 p.m.	Programs and Projects Committee (PPC)	
2:00 p.m.	Alameda CTC Commission Meeting	October 24, 2019 December 5, 2019

Advisory Committee Meetings

1:30 p.m.	Alameda County Technical Advisory Committee (ACTAC)	November 7, 2019
5:30 p.m.	Independent Watchdog Committee (IWC)	November 18, 2019
5:30 p.m.	Bicycle and Pedestrian Advisory Committee (BPAC)	November 21, 2019
1:30 p.m.	Paratransit Advisory and Planning Committee (PAPCO)	November 25, 2019

All meetings are held at Alameda CTC offices located at 1111 Broadway, Suite 800, Oakland, CA 94607. Meeting materials, directions and parking information are all available on the [Alameda CTC website](http://www.AlamedaCTC.org).



1. Call to Order/Pledge of Allegiance

2. Roll Call

A roll call was conducted. All members were present with the exception of Commissioner Valle.

3. Public Comment

There were no public comments.

4. Consent Calendar

4.1. Approve the July 8, 2019 I-580 Express Lane PC meeting minutes.

Commissioner Haggerty moved to approve the consent calendar.

Commissioner Haubert seconded the motion. The motion passed with the following votes:

Yes: Cutter, Haggerty, Haubert, Marchand, Miley, Thorne

No: None

Abstain: None

Absent: Valle

5. Regular Matters

5.1. I-580 Express Lanes: Approve Amendment No. 1 to Cooperative Agreement with the Bay Area Toll Authority for Regional Customer Service Center Services for the I-580 Express Lanes

Gary Huisingsh provided a history on legislation for tolling requirements with the Bay Area Toll Authority (BATA) and introduced Liz Rutman, who recommended that the Commission approve Amendment No. 1 to Cooperative Agreement with the Bay Area Toll Authority for Regional Customer Service Center Services for the I-580 Express Lanes to extend the term of the Agreement until March 30, 2022 and amend the terms of reimbursable costs. Ms. Rutman stated that the current BATA agreement will expire on September 30, 2019 and BATA is requesting that the agreement be extended until March 30, 2022. BATA also requested modifying the terms of the agreement related to specific reimbursement costs. BATA provides customer service center services for all of the Bay Area Express Lanes. The terms were negotiated with BATA in coordination with the other Bay Area express lane operating agencies. Ms. Rutman reviewed the amendments and the cost formula with the Authority.

Commissioner Cutter asked if clean air vehicles will need to register the vehicle and get a new toll tag. Ms. Rutman said that customers will need to register in order to get a clean air vehicle toll tag, and then use the tag to indicate occupancy. If they are a solo driver, they would be entitled to whatever clean air discount is offered.

There was a public comment on this item by Kelly Abreu regarding the goals of Alameda CTC and redundancies between committee meetings.

Commissioner Haubert moved to approve this item. Commissioner Haggerty seconded the motion. The motion passed with the following votes:

Yes: Cutter, Haggerty, Haubert, Marchand, Miley, Thorne
No: None
Abstain: None
Absent: Valle

5.2. I-580 Express Lanes Toll System Upgrade: Approve Cooperative Agreement with Caltrans

Liz Rutman recommended that the Commission approve a cooperative agreement with Caltrans for the I-580 Express Lanes Toll System Upgrade Project. The Project will replace and/or upgrade most of the tolling equipment to improve enforcement and toll operations and make minor modifications to the associated toll signage. The Project is funded by I-580 Toll Revenues. Ms. Rutman stated that a Cooperative Agreement is required to delineate the roles and responsibilities between Alameda CTC and Caltrans for the design and construction phases of the project, obtain necessary project approvals from Caltrans, and obtain the encroachment permit necessary for the Toll System Integrator to install the new toll equipment. The total cost of this Cooperative Agreement has a not-to-exceed budget of \$185,000.

Commissioner Haggerty asked can staff consider marketing initiatives to promote carpooling during the time that the lane temporarily stops tolling. He also noted that staff should coordinate with CHP on these efforts. Ms. Rutman confirmed there would be no down time related to the I-580 Toll System Upgrade.

Commissioner Haubert moved to approve this item. Commissioner Haggerty seconded the motion. The motion passed with the following votes:

Yes: Cutter, Haggerty, Haubert, Marchand, Miley, Thorne
No: None
Abstain: None
Absent: Valle

5.3. I-580 Express Lanes: Monthly Operations Status Update

Ashley Tam presented the I-580 Express Lanes monthly operations update. The update covered average trips by month, user trip breakdown, corridor speed and density heat maps for both directions of travel, and historical toll rates. She concluded by reviewing estimated gross toll revenues versus forecasted operating budget.

Commission Haggerty asked if the CHP was enforcing new regulations regarding temporary license plates and dealer plates. Captain Sherry with the California Highway Patrol answered that CHP officers do pull over vehicles with dealer plates.

This item was for information only.

6. Committee Member Reports

There were no committee reports.

7. Staff Reports

Art Dao gave the committee members an update on several meetings including the East 14th/Mission Boulevard and San Pablo Avenue Corridor project briefings and provided an update on the Executive Director recruitment. He also provided information on other partner agency upcoming events.

8. Adjournment/ Next Meeting

The next meeting is:

Monday, October 14, 2019 at 10:00a.m.

Location: Alameda CTC Offices, 1111 Broadway, Suite 800, Oakland, CA 94607

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Memorandum

5.1

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DATE: October 7, 2019

TO: I-580 Express Lane Policy Committee

FROM: Ashley Tam, Associate Transportation Engineer
Liz Rutman, Director of Express Lanes Implementation and Operations

SUBJECT: I-580 Express Lanes (PN 1373.002): Monthly Operation Update

Recommendation

This item is to provide the Commission with an update on the operation of the I-580 Express Lanes. This item is for information only.

Summary

The Alameda CTC is the project sponsor of the I-580 Express Lanes, located in the Tri-Valley corridor through the cities of Dublin, Pleasanton, and Livermore, which opened to traffic on February 19th and 22nd of 2016. See Attachment A for express lane operation limits.

The August 2019 operations report indicates that the express lane facility continues to provide travel time savings and travel reliability throughout the day. Express lane users typically experienced higher speeds and lower average lane densities than the general purpose lanes, resulting in a more comfortable drive and travel time savings for express lane users.

Background

The I-580 Express Lanes, extending from Hacienda Drive to Greenville Road in the eastbound direction and from Greenville Road to the I-680 Interchange in the westbound direction, were opened to traffic on February 19th and 22nd of 2016 in the eastbound and westbound directions, respectively. Motorists using the I-580 Express Lanes facility benefit from travel time savings and travel reliability as the express lanes optimize the corridor capacity by providing a choice to drivers. Single occupancy vehicles (SOVs) may choose to pay a toll and travel within the express lanes, while carpools, clean-air vehicles, motorcycles, and transit vehicles enjoy the benefits of toll-free travel in the express lanes.

An All Electronic Toll (AET) collection method has been employed to collect tolls. Toll rates are calculated based on real-time traffic conditions (speed and volume) in express and

general purpose lanes and can change as frequently as every three minutes. California Highway Patrol (CHP) officers provide enforcement services and the California Department of Transportation (Caltrans) provides roadway maintenance services through reimbursable service agreements.

August 2019 Operations Update:

Approximately 820,000 express lane trips were recorded during operational hours in August, which is an average of approximately 37,300 daily trips. Table 1 presents the breakdown of trips based on toll classification and direction of travel. Pursuant to the Commission-adopted "Ordinance for Administration of Tolls and Enforcement of Toll Violations for the I-580 Express Lanes," if a vehicle uses the express lanes without a valid FasTrak® toll tag then the license plate read by the Electronic Tolling System is used to assess a toll either by means of an existing FasTrak account to which the license plate is registered or by issuing a notice of toll evasion violation to the registered vehicle owner. Approximately 75 percent of all trips by users without a toll tag are assessed tolls via FasTrak account.

Table 1. Express Lane Trips by Type and Direction

Trip Classification		Percent of Trips ¹
		August
By Type	HOV-eligible with FasTrak flex tag	47%
	SOV with FasTrak standard or flex tag	34%
	No valid toll tag in vehicle	19%
By Direction	Westbound	43%
	Eastbound	57%

1. Excludes "trips" by users that had no toll tag and either no license plate or one that could not be read by the Electronic Tolling System with sufficient accuracy that a toll could be assessed.

Express lane users typically experience higher speeds and lower lane densities than the general purpose lanes. Lane density is measured by the number of vehicles per mile per lane and reported as Level of Service (LOS). LOS is a measure of freeway performance based on vehicle maneuverability and driver comfort levels, graded on a scale of A (best) through F (worst).

Attachment B presents the speed and density heat maps for the I-580 corridor during revenue hours for the six-month period from January 2019 through June 2019. These heat maps are a graphical representation of the overall condition of the corridor, showing the average speeds and densities along the express lane corridor and throughout the day for both the express and general purpose lanes, and are used to evaluate whether the express lanes are meeting both federal and state performance standards. During these six months, the average speeds at each traffic sensor location in the westbound express lane ranged from 50 to over 70 mph during the morning commute hours (5 am to 11 am) with the lower speeds occurring between Isabel Avenue and Santa Rita Road. The

express lane operated at LOS C or better at most times, with a short period of LOS D experienced near Fallon Road in the morning commute. By comparison, the general purpose lanes experienced average speeds as low as 45 mph and LOS D throughout longer sections of the corridor for longer periods of time. During this six-month period, the evening westbound reverse-commute congestion between Hacienda Road and San Ramon Road improved such that, outside of the commute hours, westbound express lane users experience average speeds of 65 mph or higher and average LOS A.

In the eastbound direction, average express lane speeds from January 2019 through June 2019 ranged from 20 to 70 mph during the evening commute hours (2 pm – 7 pm) with the lowest speeds occurring at the eastern terminus of the express lanes, between Vasco Road and Greenville Road. Average express lane speeds throughout the rest of the day exceeded 65 mph. Most of the express lane corridor operates at LOS C or better during the evening commute hours, with limited sections of degraded LOS at the western end of the express lanes between 3 pm and 6 pm and at the eastern terminus between 3 pm and 7 pm. The express lanes averaged LOS B or better throughout the rest of the day in all locations. By comparison, the general purpose lanes experienced lower speeds and degraded levels of services for longer periods of time than the express lanes during the evening commute hours.

Table 2 presents the maximum posted toll rates to travel the entire corridor in each direction in August 2019, along with the average toll assessed to toll-paying users.

Table 2. Toll Rate Data

Month	Direction	Maximum Posted Toll (Travel Entire Corridor)	Average Assessed ¹ Toll (All Toll Trips)
August	Westbound	\$13.00 (6 of 22 days)	\$3.02
	Eastbound	\$12.00 (18 of 22 days)	\$3.59

¹ Assessed toll is the toll rate applied to non-toll-free trips and reflects potential revenue generated by the trip. Not all potential revenue results in actual revenue received.

In Fiscal Year 2019-20, the I-580 Express Lanes recorded nearly 1.57 million total trips so far. Total gross revenues received include \$2.35 million in toll revenues and \$500,000 in violation fees and penalties; the pro-rated forecast operating budget is \$1.03 million.

Fiscal Impact: There is no fiscal impact associated with the requested action.

Attachments:

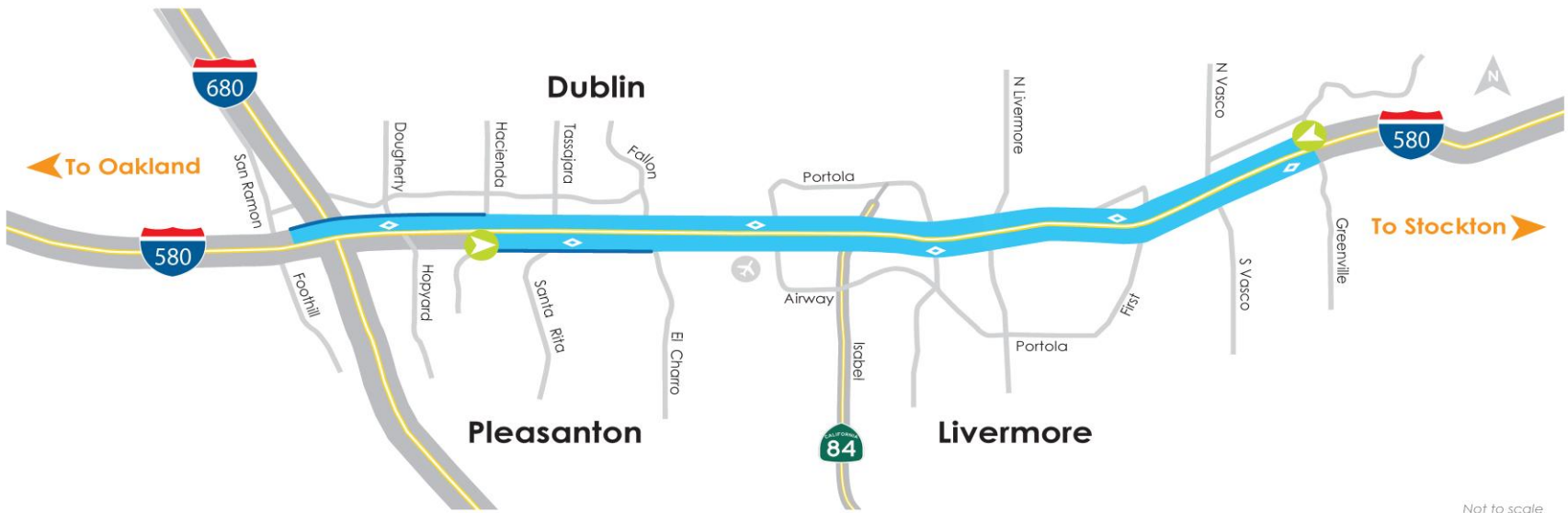
- A. I-580 Express Lanes Location Map
- B. I-580 Corridor Express Lanes Heat Maps January 2019 – June 2019

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I-580 Express Lanes Location Map

5.1A



Not to scale

Two Eastbound Express Lanes
Lanes begin at Hacienda
 No entry/exit from eastbound express lanes from Hacienda to Fallon / El Charro.
Please note: For access to Santa Rita Road, do not enter express lanes.

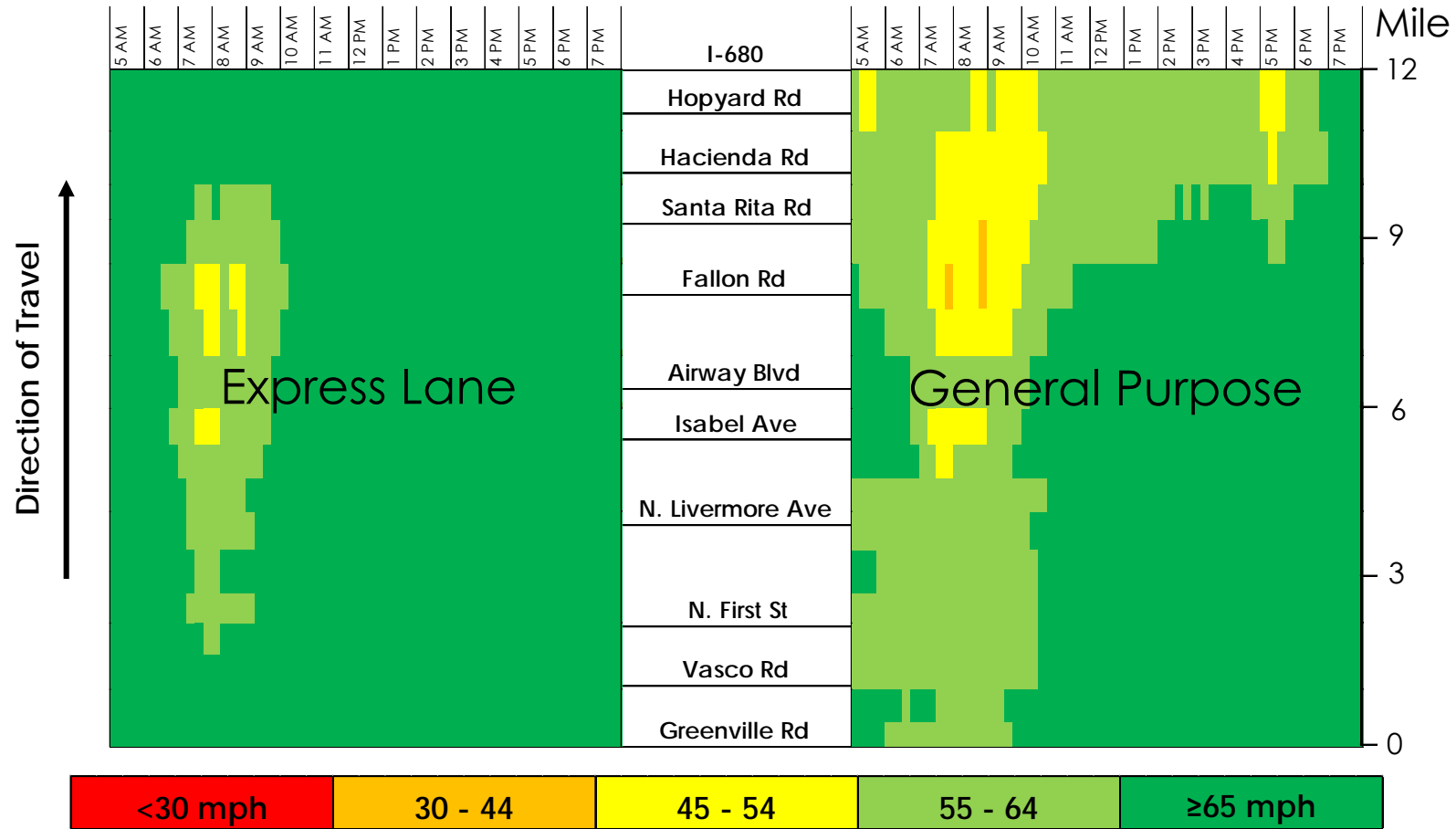
One Westbound Express Lane
Lane begins at Greenville
 No entry/exit from westbound express lane from Hacienda to end.
Please note: For access to I-680 or Dougherty, exit express lane before Hacienda.



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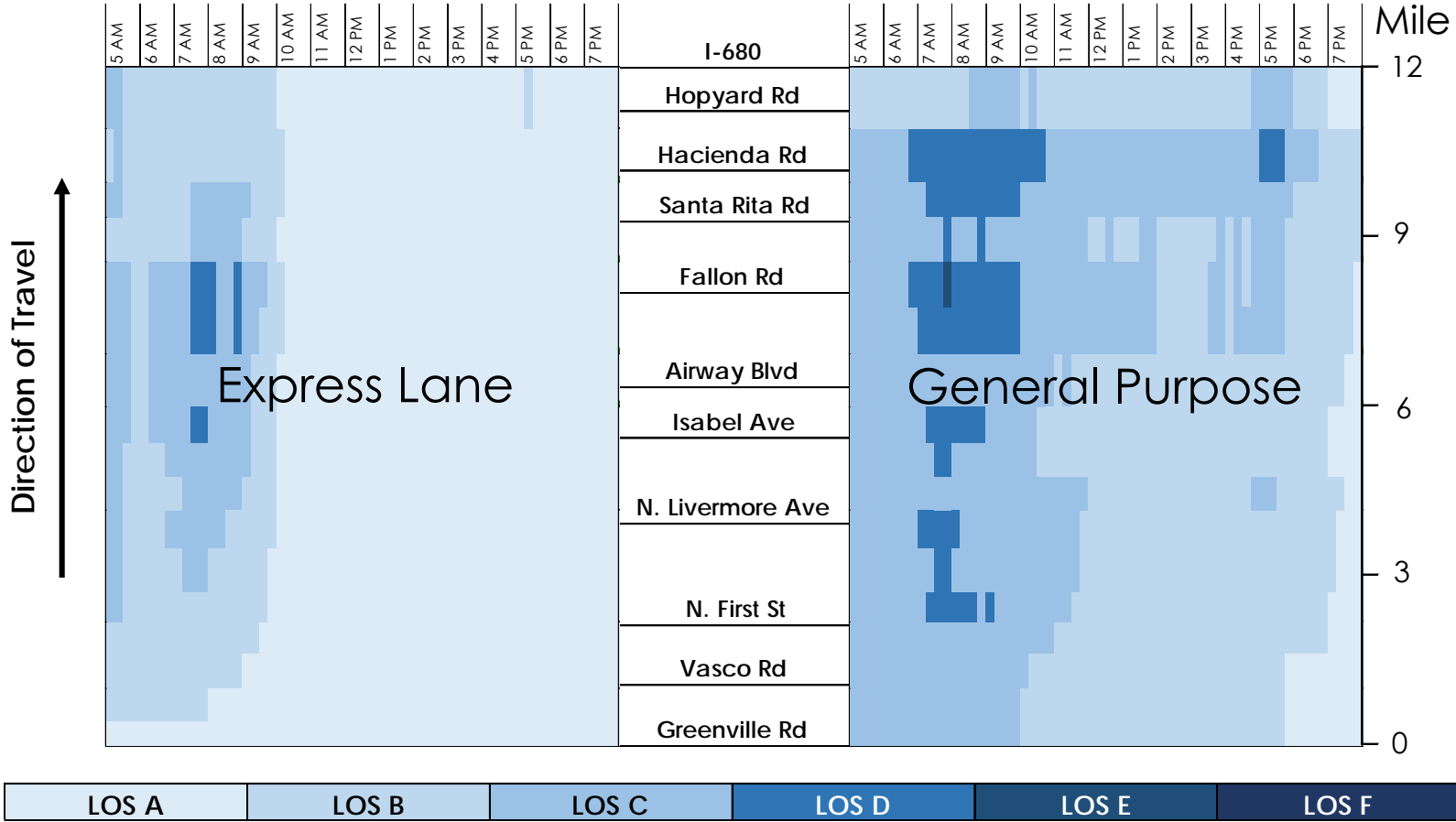
Westbound I-580 Corridor Speed Heat Maps

Monday-Friday, January 2019 – June 2019



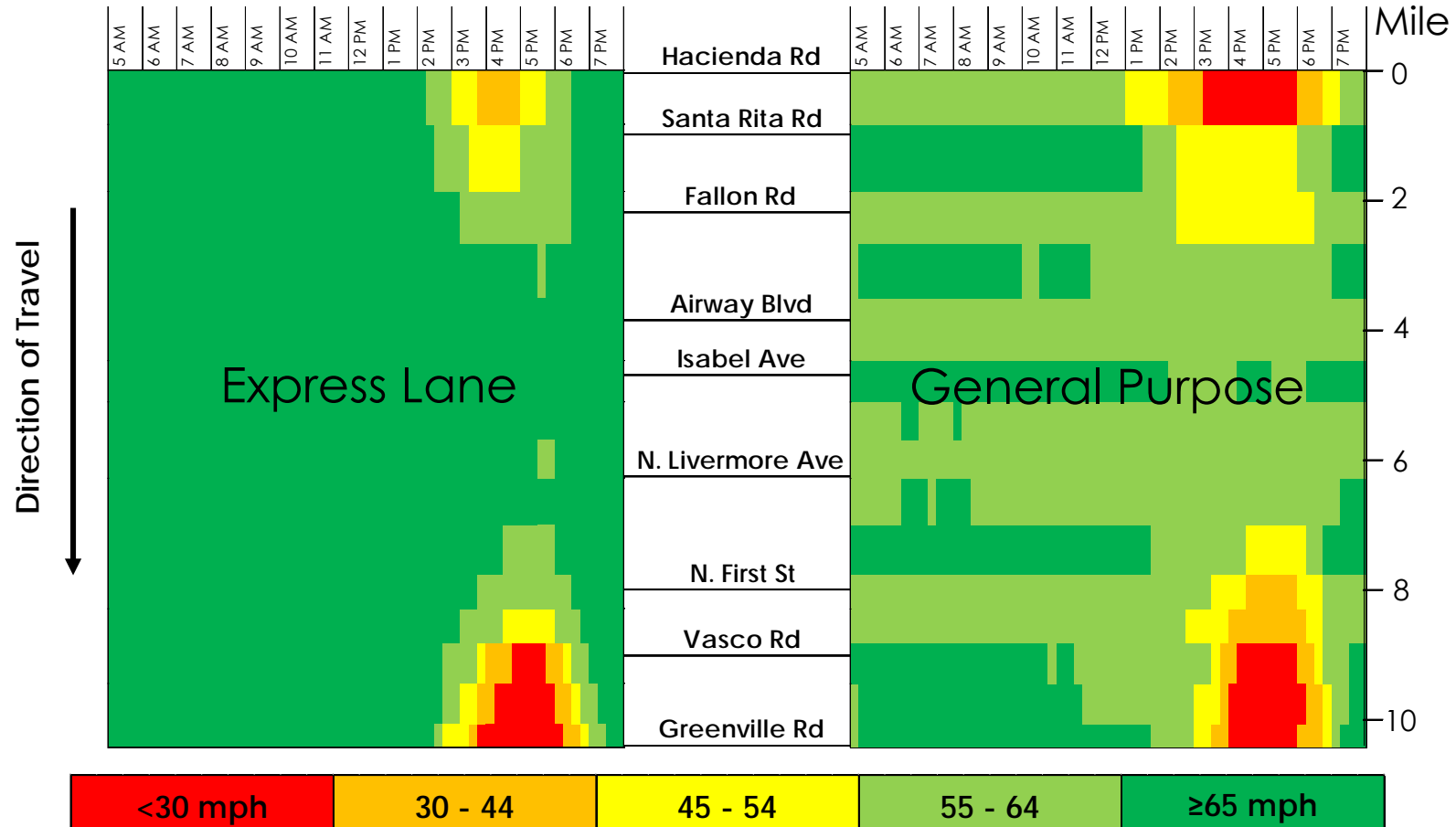
Westbound I-580 Corridor Density Heat Maps

Monday-Friday, January 2019 – June 2019



Eastbound I-580 Corridor Speed Heat Maps

Monday-Friday, January 2019 – June 2019



Eastbound I-580 Corridor Density Heat Maps

Monday-Friday, January 2019 – June 2019

