



I-580 Express Lane Policy Committee Meeting Agenda Monday, November 19, 2018, 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 October 8, 2018 I-580 Express Lane PC Meeting Minutes](#) 1 A

5. Regular Matters

5.1. [I-580 Express Lanes: Monthly Operations Status Update](#) 5 1

6. Committee Member Reports

7. Staff Reports

8. Adjournment

Next Meeting: Monday, January 14, 2019

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:

Commission Chair
Supervisor Richard Valle, District 2

Commission Vice Chair
Mayor Pauline Cutter,
City of San Leandro

AC Transit
Board 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
Director Rebecca Saltzman

City of Alameda
Mayor Trish Spencer

City of Albany
Councilmember Peter Maass

City of Berkeley
Mayor Jesse Arreguin

City of Dublin
Mayor David Haubert

City of Emeryville
Mayor 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 Dan Kalb

City of Piedmont
Vice Mayor Teddy Gray King

City of Pleasanton
Mayor Jerry Thorne

City of Union City
Mayor Carol Dutra-Vernaci

Executive Director
Arthur L. Dao

Description	Date	Time
Paratransit Technical Advisory Committee (ParaTAC)	January 8, 2019	9:30 a.m.
Alameda County Technical Advisory Committee (ACTAC)	January 10, 2019	1:30 p.m.
Finance and Administration Committee (FAC)	January 14, 2019	8:30 a.m.
I-680 Sunol Smart Carpool Lane Joint Powers Authority (I-680 JPA)		9:30 a.m.
I-580 Express Lane Policy Committee (I-580 PC)		10:00 a.m.
Planning, Policy and Legislation Committee (PPLC)		10:30 a.m.
Programs and Projects Committee (PPC)		12:00 p.m.
Independent Watchdog Committee (IWC)	January 14, 2019	5:30 p.m.
Alameda CTC Commission Meeting	January 24, 2019	2:00 p.m.
Paratransit Advisory and Planning Committee (PAPCO)	January 28, 2019	1:30 p.m.
Bicycle and Pedestrian Community Advisory Committee (BPAC)	February 21, 2019	5:30 p.m.

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).



I-580 Express Lane Policy Committee Meeting Minutes Monday, October 8, 2018, 10:00 a.m.

4.1

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1. Call to Order/Pledge of Allegiance

2. Roll Call

A roll call was conducted. All members were present.

3. Public Comment

There were no public comments.

4. Consent Calendar

4.1. Approve the September 10, 2018 I-580 Express Lane PC meeting minutes.

Commissioner Haubert moved to approve Consent Calendar. Commissioner Marchand seconded the motion. The motion passed with the following votes:

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

No: None

Abstain: None

Absent: None

5. Regular Matters

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

Ashley Tam presented the I-580 Express Lanes monthly operations update for the month of August. 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 approved fiscal year budget.

Commissioner Haggerty requested staff to include I-580 in the discussion on tolls that was brought up in the I-680 meeting. Mr. Dao said the discussion will include both I-580 and I-680.

Commissioner Haggerty asked on an average how many cars are paying \$12. Ms. Rutman said the number is relatively small and staff will confirm. She stated that the users paying \$12 are going from end to end of the corridor and during the peak evening commute time.

Commissioner Cutter asked what the plans are for the funds being generated that exceed the budget. Ms. Rutman stated that an expenditure plan was brought to committee in April 2018 that established the funds in excess will be held in reserve for maintenance and operational risk. Mr. Dao noted that in terms of project and programs, the Commission adopted three areas of priority for future investments: Adequate funding to maintain and upkeep the lanes, expansion of additional lanes, and transit expansion.

Commissioner Cutter asked what the plans are for the Dublin Grade. Mr. Dao stated that the Commission directed staff to perform an initial study, which is a Design Alternative Assessment, to see what can be done to relieve congestion over the Dublin Grade.

Commissioner Haggerty stated that he did not recall the policy stating that I-580 revenues will go toward transit and suggested for the Commission to have a policy discussion to release money to LAVTA to show the voters that promises are being kept. Mr. Dao said that staff will bring this discussion as a future agenda item.

This item was for information only.

5.2. Approve the Draft I-580 Express Lanes After Study Report to the Legislature

Liz Rutman stated that at the September 10, 2018 meeting, staff presented the key findings of the I-580 Express Lanes After Study. Ms. Rutman stated that Alameda CTC has been operating express lanes along I-580 since February 2016. An After Study is a requirement under AB 2032, which authorized Alameda CTC to operate the I-580 Express Lanes. Since last month's meeting, feedback has been received from both Caltrans and the California Highway Patrol, and staff has finalized the report. The legislative report expands upon the key findings presented in September and provides information on project goals, evaluation methodology, results by evaluation measure, and a conclusion of how the I-580 Express Lanes performed against the project goals. Ms. Rutman recommended that the Commission approve the Draft I-580 Express Lanes After Study Report to the Legislature.

Commissioner Haubert moved to approve Consent Calendar. Commissioner Thorne seconded the motion. The motion passed with the following votes:

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

6. Committee Member Reports

Commissioner Haubert thanked Commissioner Miley for moderating the Bay East Association of Realtors panel on October 3, 2018, which involved Tri-Valley leaders discussing traffic problems and solutions. Commissioner Haubert stated that an item that came out of the discussion was the impact of trucks and rail. He requested staff to bring an update on rail. Mr. Dao said staff will bring information on rail to either the I-580 PC or PPLC.

Commissioner Miley stated that panelists also included Assemblywoman Baker, Commissioner Haggerty, Commissioner Haubert, Commissioner Marchand, BART Director McPartland and Commissioner Thorne. He mentioned that an attendee asked with the population growing, what will be done when the region is unable to expand. Mr. Dao said mass transit is the answer because the freeways can no longer be expanded.

6. Staff Reports

There were no staff reports.

7. Adjournment/ Next Meeting

The next meeting is:

Date/Time: Monday, November 19, 2018 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: November 13, 2018

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 September 2018 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 lesser 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 new 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.

September 2018 Operations Update:

Over 670,000 express lane trips were recorded during operational hours in September, an average of approximately 35,300 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 60 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
		September
By Type	HOV-eligible with FasTrak flex tag	45%
	SOV with FasTrak standard or flex tag	35%
	No valid toll tag in vehicle	20%
By Direction	Westbound	47%
	Eastbound	53%

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 lesser 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 April 2018 – September 2018. 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 lane is 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 55 to 70 mph during the morning commute hours (5 am to 11 am) with the lower speeds occurring between Isabel Avenue and Hacienda Road. The express lane operated at LOS C or better at most times, with a 90-minute period of LOS D experienced near Fallon Road and a 30-minute period of LOS D experienced near Isabel Ave in the morning commutes. By comparison, the general purpose lanes experienced average speeds as low as 45 mph and LOS D throughout longer sections of the corridor. During the evening commute, a small period of westbound reverse-commute congestion between Hacienda Road and San Ramon Road is observed from 4 pm to 6 pm, though the express lane continued to operate at LOS B or better during this time. Outside of the commute hours, westbound express lane users experience average speeds of 70 mph or higher and average LOS A.

In the eastbound direction, average express lane speeds from April 2018 through September 2018 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 70 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 September 2018, 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)
September	Westbound	\$13.00 (6 of 19 days)	\$2.88
	Eastbound	\$12.00 (14 of 19 days)	\$3.65

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.

Through September of Fiscal Year 2018-19, the I-580 Express Lanes recorded almost 2.25 million total trips. Total gross revenues received include \$3.9 million in toll revenues and \$820,000 in violation fees and penalties.

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

Attachments:

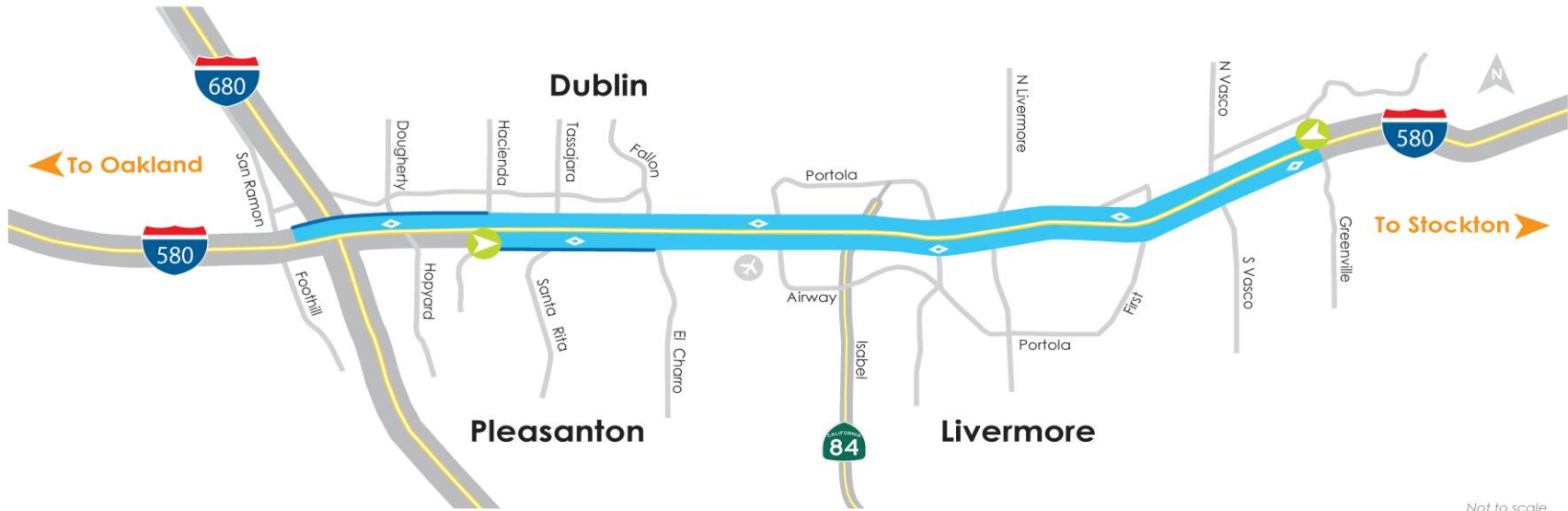
- A. I-580 Express Lanes Location Map
- B. I-580 Corridor Express Lanes Heat Maps April 2018 – September 2018

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I-580 Express Lanes Project Location Map

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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.

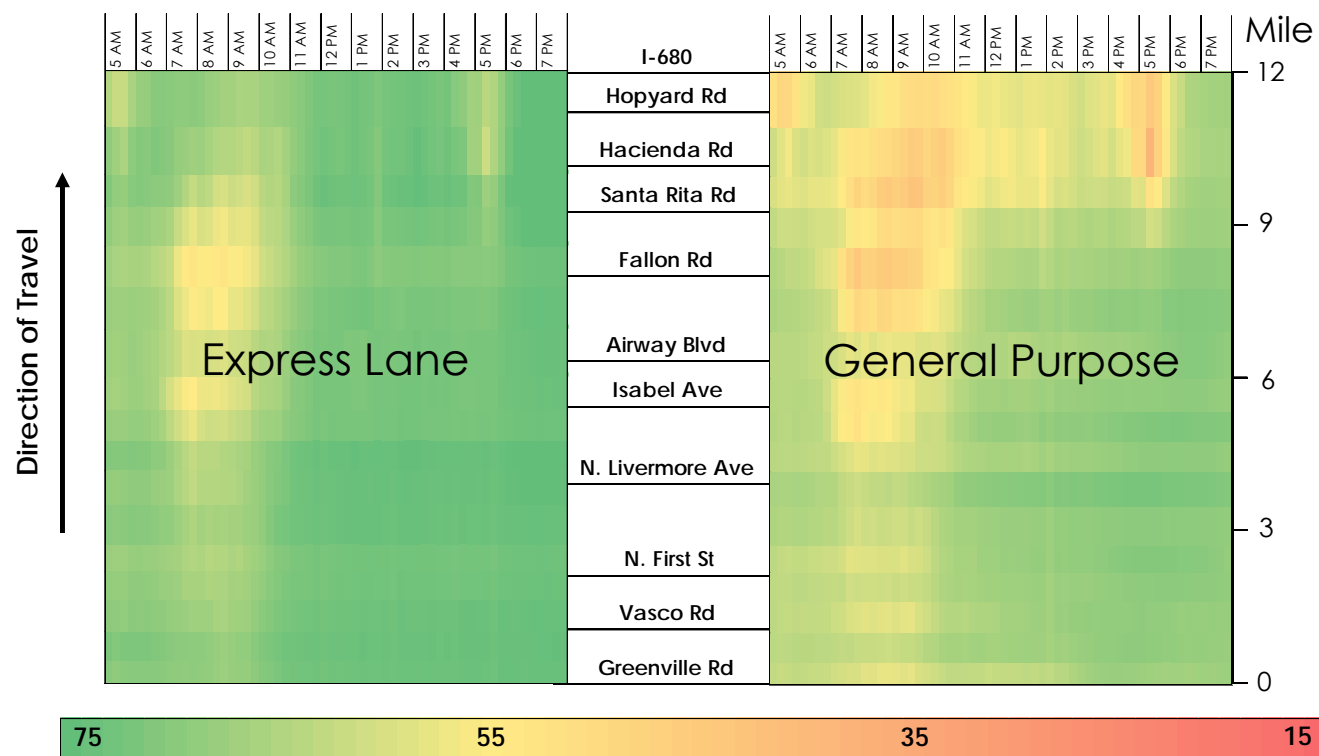
Please note: For access to I-680 or Dougherty, exit express lane before Hacienda.



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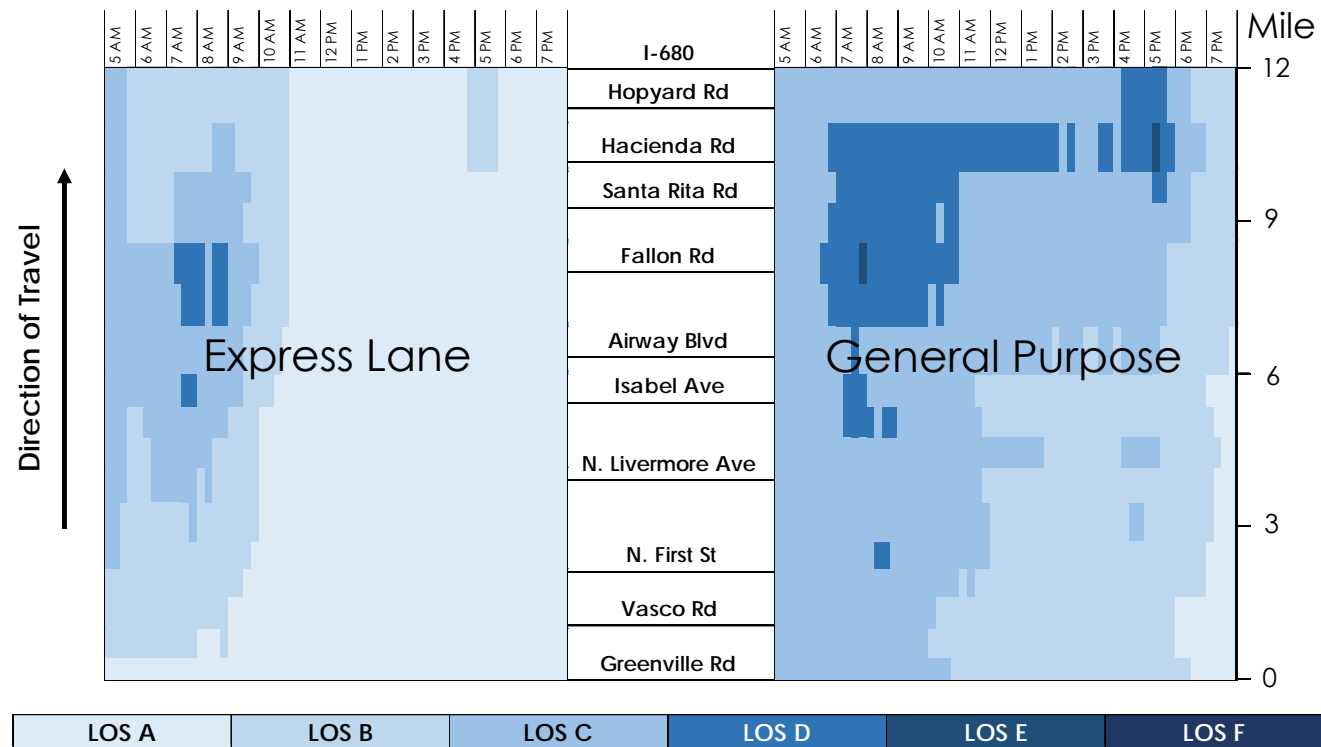
Westbound I-580 Corridor Speed Heat Maps

Monday-Friday, April 2018 – September 2018



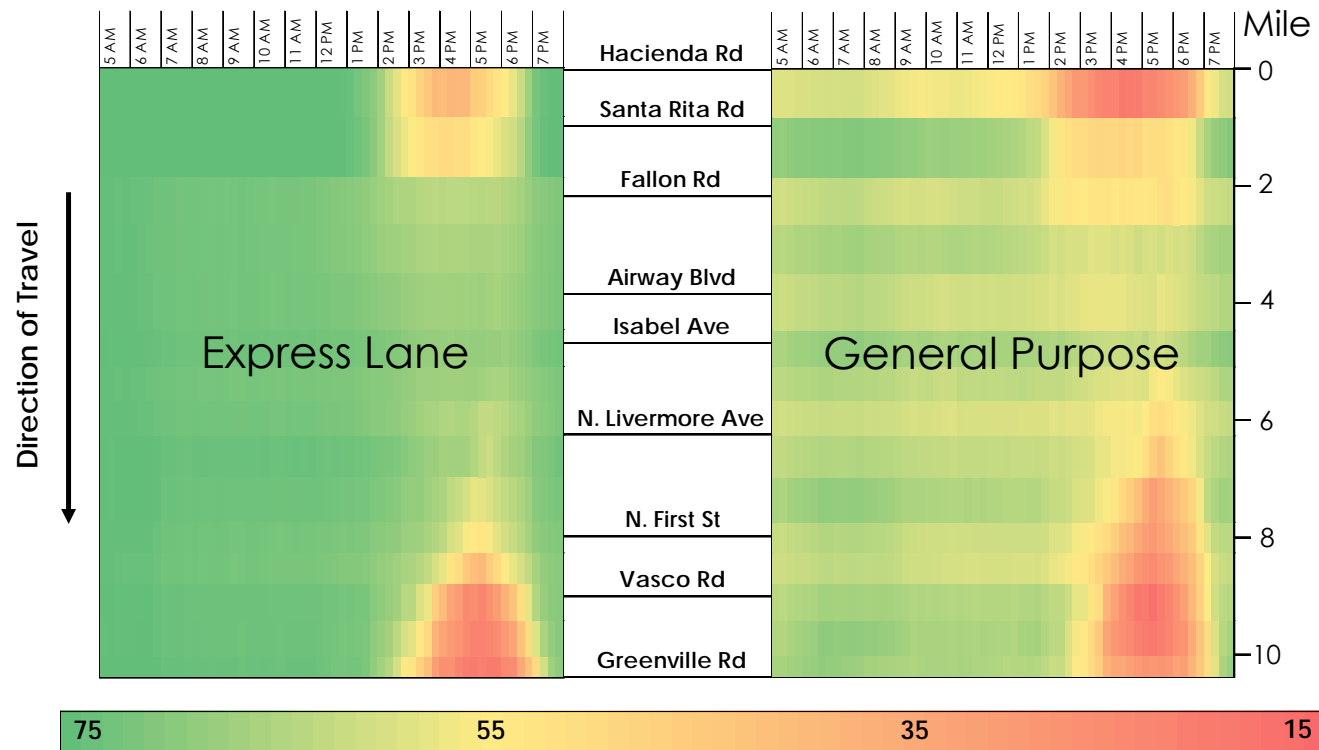
Westbound I-580 Corridor Density Heat Maps

Monday-Friday, April 2018 – September 2018



Eastbound I-580 Corridor Speed Heat Maps

Monday-Friday, April 2018 – September 2018



Eastbound I-580 Corridor Density Heat Maps

Monday-Friday, April 2018 – September 2018

