



# Meeting Notice

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**Executive Director**  
Arthur L. Dao

## I-580 Express Lane Policy Committee

Monday, October 10, 2016, 10:00 a.m.

1111 Broadway, Suite 800  
Oakland, CA 94607

### Mission Statement

The mission of the Alameda County Transportation Commission (Alameda CTC) is to plan, fund, and deliver transportation programs and projects that expand access and improve mobility to foster a vibrant and livable Alameda County.

### Public Comments

Public comments are limited to 3 minutes. Items not on the agenda are covered during the Public Comment section of the meeting, and items specific to an agenda item are covered during that agenda item discussion. If you wish to make a comment, fill out a speaker card, hand it to the clerk of the Commission, and wait until the chair calls your name. When you are summoned, come to the microphone and give your name and comment.

### Recording of Public Meetings

The executive director or designee may designate one or more locations from which members of the public may broadcast, photograph, video record, or tape record open and public meetings without causing a distraction. If the Commission or any committee reasonably finds that noise, illumination, or obstruction of view related to these activities would persistently disrupt the proceedings, these activities must be discontinued or restricted as determined by the Commission or such committee (CA Government Code Sections 54953.5-54953.6).

### Reminder

Please turn off your cell phones during the meeting. Please do not wear scented products so individuals with environmental sensitivities may attend the meeting.

### Glossary of Acronyms

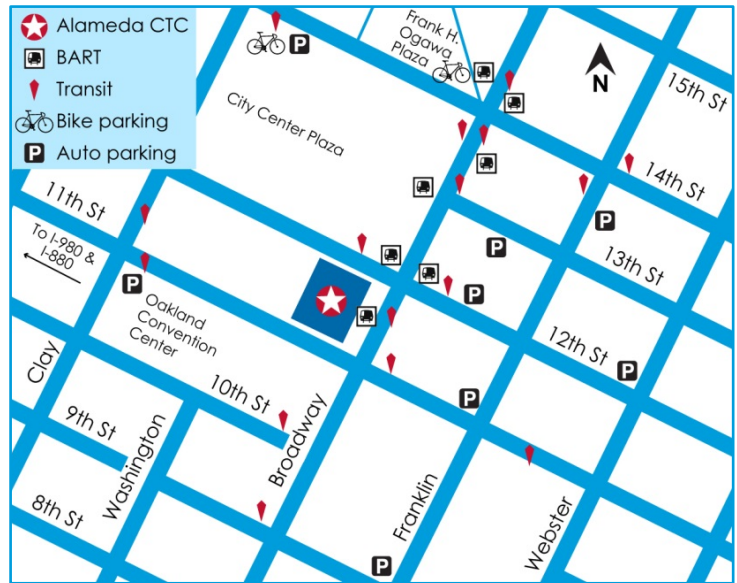
A glossary that includes frequently used acronyms is available on the Alameda CTC website at [www.AlamedaCTC.org/app\\_pages/view/8081](http://www.AlamedaCTC.org/app_pages/view/8081).

## Location Map

### Alameda CTC

1111 Broadway, Suite 800  
Oakland, CA 94607

Alameda CTC is accessible by multiple transportation modes. The office is conveniently located near the 12th Street/City Center BART station and many AC Transit bus lines. Bicycle parking is available on the street and in the BART station as well as in electronic lockers at 14th Street and Broadway near Frank Ogawa Plaza (requires purchase of key card from bikelink.org).



Garage parking is located beneath City Center, accessible via entrances on 14th Street between 1300 Clay Street and 505 14th Street buildings, or via 11th Street just past Clay Street. To plan your trip to Alameda CTC visit [www.511.org](http://www.511.org).

## Accessibility

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## Meeting Schedule

The Alameda CTC meeting calendar lists all public meetings and is available at [www.AlamedaCTC.org/events/upcoming/now](http://www.AlamedaCTC.org/events/upcoming/now).

## Paperless Policy

On March 28, 2013, the Alameda CTC Commission approved the implementation of paperless meeting packet distribution. Hard copies are available by request only. Agendas and all accompanying staff reports are available electronically on the Alameda CTC website at [www.AlamedaCTC.org/events/month/now](http://www.AlamedaCTC.org/events/month/now).

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# I-580 Express Lane Policy Committee Meeting Agenda Monday, October 10, 2016, 10:00 a.m.\*

\*Or immediately following the I-680 Sunol SMART Carpool Lane Joint Powers Authority meeting

1111 Broadway, Suite 800, Oakland, CA 94607 • 510.208.7400 • www.AlamedaCTC.org

**Chair:** Mayor John Marchand, City of Livermore  
**Vice Chair:** Mayor David Haubert, City of Dublin  
**Commissioners:** Scott Haggerty, Rebecca Kaplan, Bill Harrison, Jerry Thorne, Nate Miley  
**Staff Liaison:** Elizabeth Rutman  
**Executive Director:** Arthur L. Dao  
**Clerk:** Vanessa Lee

- |                                                                                               | Page | A/I |
|-----------------------------------------------------------------------------------------------|------|-----|
| 1. Roll Call                                                                                  |      |     |
| 2. Public Comment                                                                             |      |     |
| 3. Consent Calendar                                                                           |      |     |
| 3.1. <a href="#">Approval of the I-580 Express Lane PC September 12, 2016 Meeting Minutes</a> | 1    | A   |
| 4. Regular Matters                                                                            |      |     |
| 4.1. <a href="#">Receive a status update on the operation of I-580 HOV/Express Lane</a>       | 3    | I   |
| 5. Committee Member Reports (Verbal)                                                          |      |     |
| 6. Staff Reports (Verbal)                                                                     |      |     |
| 7. Adjournment                                                                                |      |     |

**Next Meeting:** November 14, 2016

All items on the agenda are subject to action and/or change by the Committee.

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# I-580 Express Lane Policy Committee Meeting Minutes

Monday, September 12, 2016, 10:00 a.m. **3.1**

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## 1. Roll Call

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

### Subsequent to the roll call:

Commissioner Haubert arrived during item 4.1.

## 2. Public Comment

There were no public comments.

## 3. Consent Calendar

### 3.1. Approval of the I-580 Express Lane PC July 11, 2016 Meeting Minutes

*Commissioner Kaplan moved to approve the Consent Calendar. Commissioner Harrison seconded the motion. The motion passed with the following vote:*

Yes: *Marchand, Haggerty, Kaplan, Harrison, Thorne, Miley*

No: *None*

Abstain: *None*

Absent: *Haubert*

## 4. Regular Matters

### 4.1. Receive a status update on the operation of I-580 HOV/Express Lane

Liz Rutman provided an update on the I-580 HOV/Express Lane for the month of June and July 2016. She shared the corridor performance information such as the total express lane trip totals, along with the breakdown of types of toll tags, and trips broken down in the westbound and eastbound direction, month-over-month express lane trips, including the average daily trips, express lane transactions breakdown by toll tag type, speed/density data location, average travel speeds, and lane density as well as average daily toll rates and revenue. She introduced two new corridor "heat" maps that depict the overall health of the corridor. Liz concluded by providing information on re-paving work in 2017.

Commissioner Haubert asked if the paving addresses westbound I-580 up the Altamont Pass going into Livermore. Liz stated that paving would be completed east of the express lanes in both directions.

*This item was for information only.*

## 5. Committee Member Reports

There were no committee member reports.

## 6. Staff Reports

Art Dao stated that the Commission retreat had been scheduled for November 18, 2016.

**7. Adjournment/ Next Meeting**

The next meeting is:

Date/Time: Monday, October 10, 2016 @ 10:00 a.m.

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

Attested by:



\_\_\_\_\_  
Vanessa Lee, Clerk of the Commission



**DATE:** October 3, 2016

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

**RECOMMENDATION:** Receive a status update on the operation of I-580 Express Lane

## Summary

The Alameda CTC is the project sponsor of the I-580 Corridor Express Lane Projects along the I-580 corridor in the Tri-Valley that are now in operation, opened to traffic on February 19<sup>th</sup> and 22<sup>nd</sup> of 2016. See Attachment A – Project Location Map for express lane operational limits.

The August 2016 operations report indicates that the new express lane facility continues to provide travel time savings and travel reliability throughout the day. Express lane users experienced average speeds up to 26 mph greater than the average speeds in the general purpose lanes, along with lesser average lane densities than the general purpose lanes, in the most congested segments of the corridor.

## Background

The I-580 Corridor Express Lanes, extending from Hacienda Drive to Greenville Road in the eastbound direction and from Greenville Road to San Ramon Road/Foothill Road in the westbound direction, were opened to traffic on February 19 and 22, 2016 in the eastbound and westbound directions, respectively. See Appendix A for a location map. Motorists using the I-580 Express Lanes facility enjoy travel time savings and travel reliability benefits 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 carpool, clean-air vehicles, motorcycles, and transit vehicles enjoy the benefits of toll-free travel in the express lanes. As anticipated, lane use continues to ramp up and is expected to stabilize over time.

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 purposes lanes. California Highway Patrol officers provide enforcement services and Caltrans provides roadway maintenance services through reimbursable service agreements.

**August 2016 Operation Update:** During the 23 days of August express lane operations, there were approximately 715,000 total express lane trips recorded. Table 1 presents the breakdown of trips based on toll classification and direction of travel. The percent of users without FasTrak® flex tags dropped from 32% in July to just 26% in August, with a corresponding increase toll tag usage by both HOV and SOV express lane users of about 3% in each category. 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 FasTrak toll tag then our customer service representatives either assess tolls to the matching FasTrak account or issues a notice of toll evasion violation to the registered vehicle owner. Of those motorists without a toll tag, approximately 56% of the trips were matched to existing FasTrak account by means of license plate information – an increase over the 50% reported for July 2016.

Table 1. Express Lane Trips by Type and Direction for August 2016

Trip Classification		Trip Number (%)
By Type	HOV-eligible with FasTrak flex tag	226,000 (32%)
	SOV with FasTrak standard or flex tag	302,000 (42%)
	No Tag or Invalid Tag	187,000 (26%)
By Direction	Westbound	338,000
	Eastbound	377,000
TOTAL		715,000

Express lane users generally 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).

During August 2016, express lane users experienced average travel speeds up to 26 mph greater than the average speeds in the general purpose lanes, with greater speed differentials in the more congested segments of the corridor. Express lanes also operate at better Level of Service (LOS) than adjacent general purpose lanes during commute times. Table 2 summarizes the speed differentials and LOS at four locations in each of the westbound and eastbound directions during the morning and evening commute hours, respectively.



Table 2. Speed Differentials and Level of Service for August 2016

Direction	I-580 in the Vicinity of	Speed Differential Range (mph)	Average Speed Differential (mph)	Average Express Lane LOS	Average General Purpose Lane LOS
Westbound Morning Commute: 5 am – 11 am	North First Street	11 - 13	12	A	B
	North Livermore Ave	3 - 6	4	B	C
	Fallon Road	4 - 18	10	C	D
	Santa Rita Road	9 - 20	13	B	C
Eastbound Evening Commute: 2 pm – 7 pm	Hacienda Road	18 - 26	22	C	E
	Airway Blvd	7 - 11	9	B	C
	North First Street	6 - 9	7	A	C
	Vasco Road	9 - 24	14	B	C

Attachment B presents the speed and density heat maps for the I-580 corridor during revenue hours for the five-month period from April – August 2016. 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. From April through August, the average speeds in the westbound express lane ranged from 55 to 70 mph during the morning commute hours (5 am to 11 am) with lower speeds occurring between Isabel Avenue and Fallon Road; average speeds throughout the rest of the day exceeded 70 mph. The express lane operated at LOS C or better at all times, with LOS C occurring only for a short period of time in the middle of the corridor (Isabel Avenue to Fallon Road). By comparison, the general purpose lanes experienced speeds as low as 40 mph and LOS D for much longer periods of time throughout a greater portion of the corridor.

In the eastbound direction, average corridor speeds from April through August ranged from 20 to 70 mph during the evening commute hours (2 pm – 7 pm) with the lowest speeds occurring only at the eastern terminus of the express lanes, between North First Street and Greenville Road; average speeds throughout the rest of the day exceeded 70 mph. The express lane operated primarily at LOS B or C from during the evening commute hours, with small sections of degraded LOS at the eastern terminus of the express lanes between 3 pm and 6:30 pm; average LOS B or better was realized throughout the rest of the day in all locations. By comparison, the general purpose lanes experienced similar low speeds but with LOS F for much longer periods of time throughout a greater portion of the corridor. The degraded service at the east end of the corridor improved for both the express and general purpose lanes when Caltrans opened a new general purpose lane on June 30, 2016 from Greenville Road to Flynn Road. Future heat maps will reflect

significant improvement for express lane performance, though congestion between Greenville Road and I-205 during the evening commute causes almost daily queues that extend into the eastbound express lanes.

Posted toll rates have yet to hit the operational maximum toll rates to travel the entire length of the corridor, which is currently set at \$13.00 and \$9.00 for westbound and eastbound, respectively. Table 2 presents the maximum posted toll rates to travel the entire corridor in each direction, along with the average toll assessed to non-HOV users.

Table 3. Toll Rate Data for August 2016

Direction	Maximum Posted Toll (Travel Entire Corridor)	Average Assessed Toll (All Trips)
Westbound	\$7.25	\$1.84
Eastbound	\$6.25	\$1.73

Through August 2016, the I-580 Express Lanes have recorded over 3.9 million total trips and generated nearly \$4.4 million in gross toll revenues.

Public outreach and education activities continue throughout the I-580 corridor commute shed. These efforts are planned through the end of Fiscal Year 2016/17 in order to increase awareness of the express lanes, promote the benefits of the lanes, emphasize proper use of the facility, and encourage the public to obtain FasTrak® and FasTrak® flex toll tags. Current activities include outreach via social media and advertising on Waze.

**Fiscal Impact:** There is no fiscal impact due to this item

#### **Attachments**

- A. I-580 Corridor Express Lane Projects – Location Map
- B. I-580 Corridor Heat Maps April – August 2016

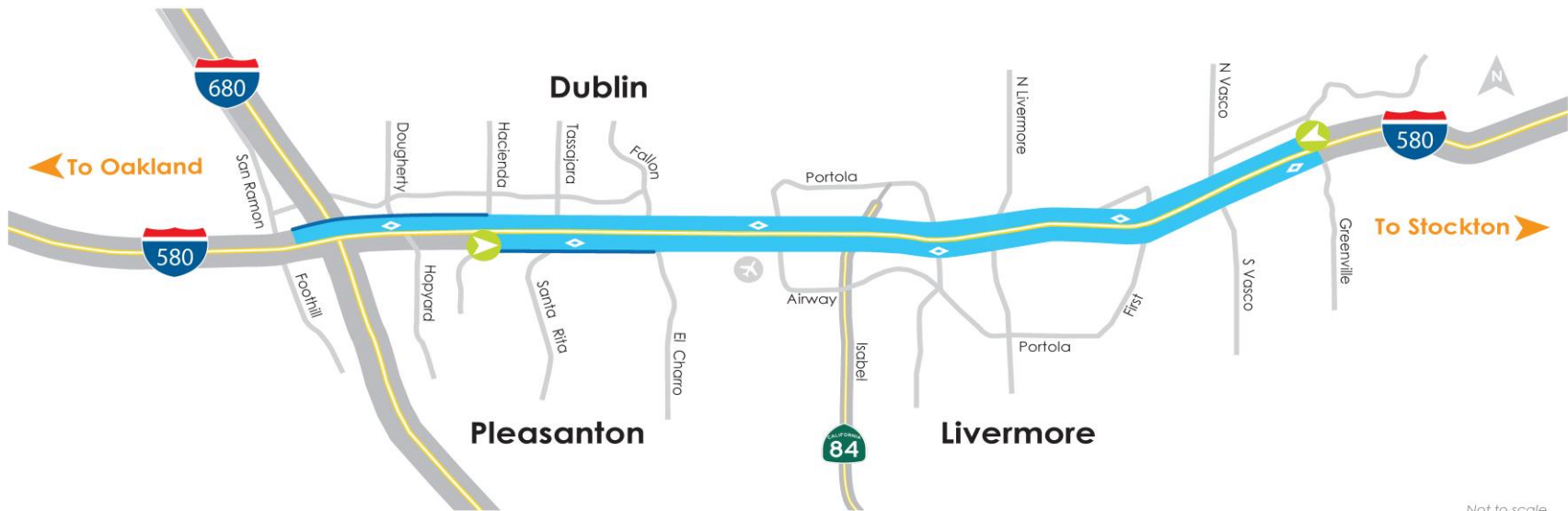
#### **Staff Contact**

[Liz Rutman](#), Express Lanes Operation and Maintenance Manager



# I-580 Express Lanes Project Location Map

4.1A



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

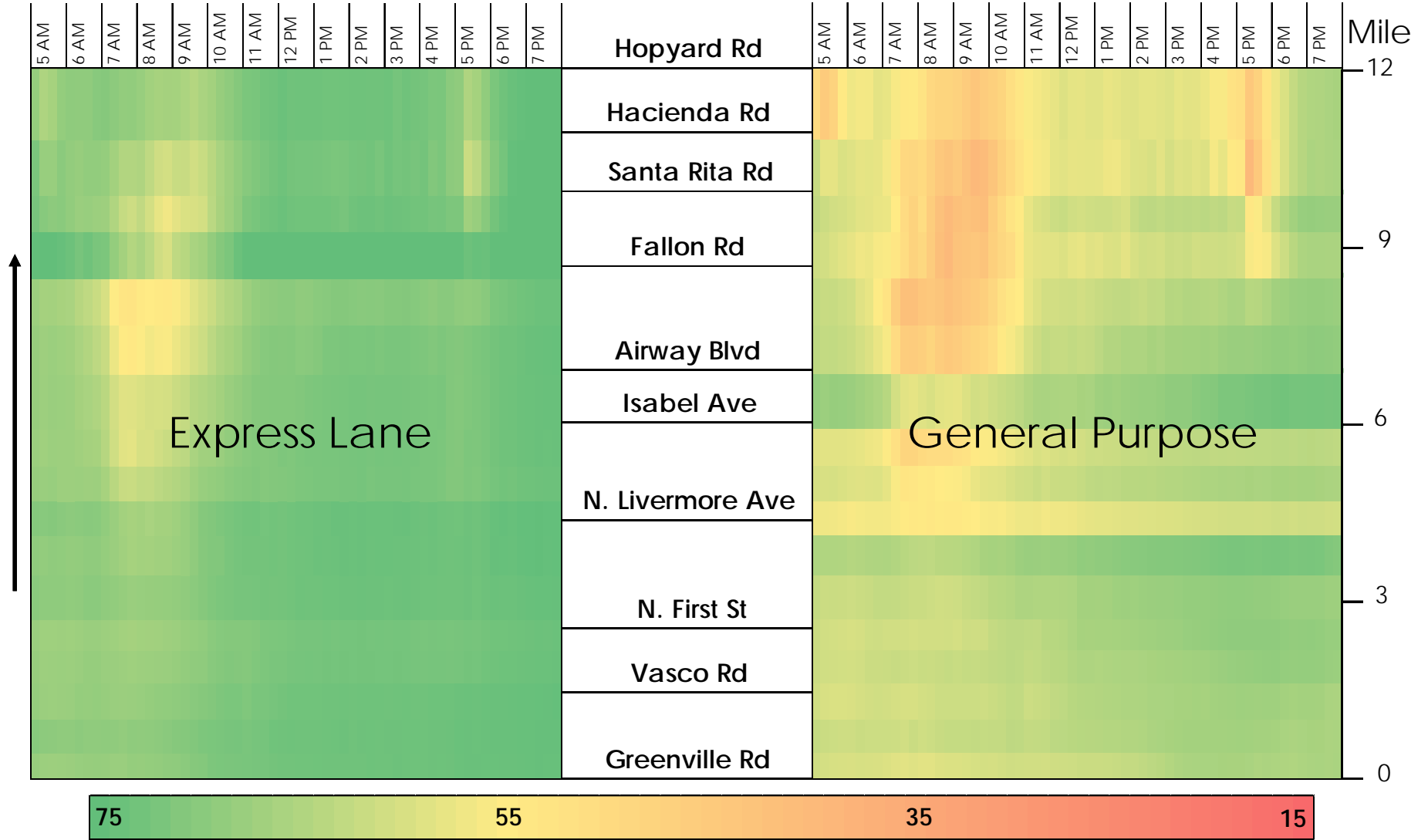
No entry/exit from westbound express lane from Hacienda to end.

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

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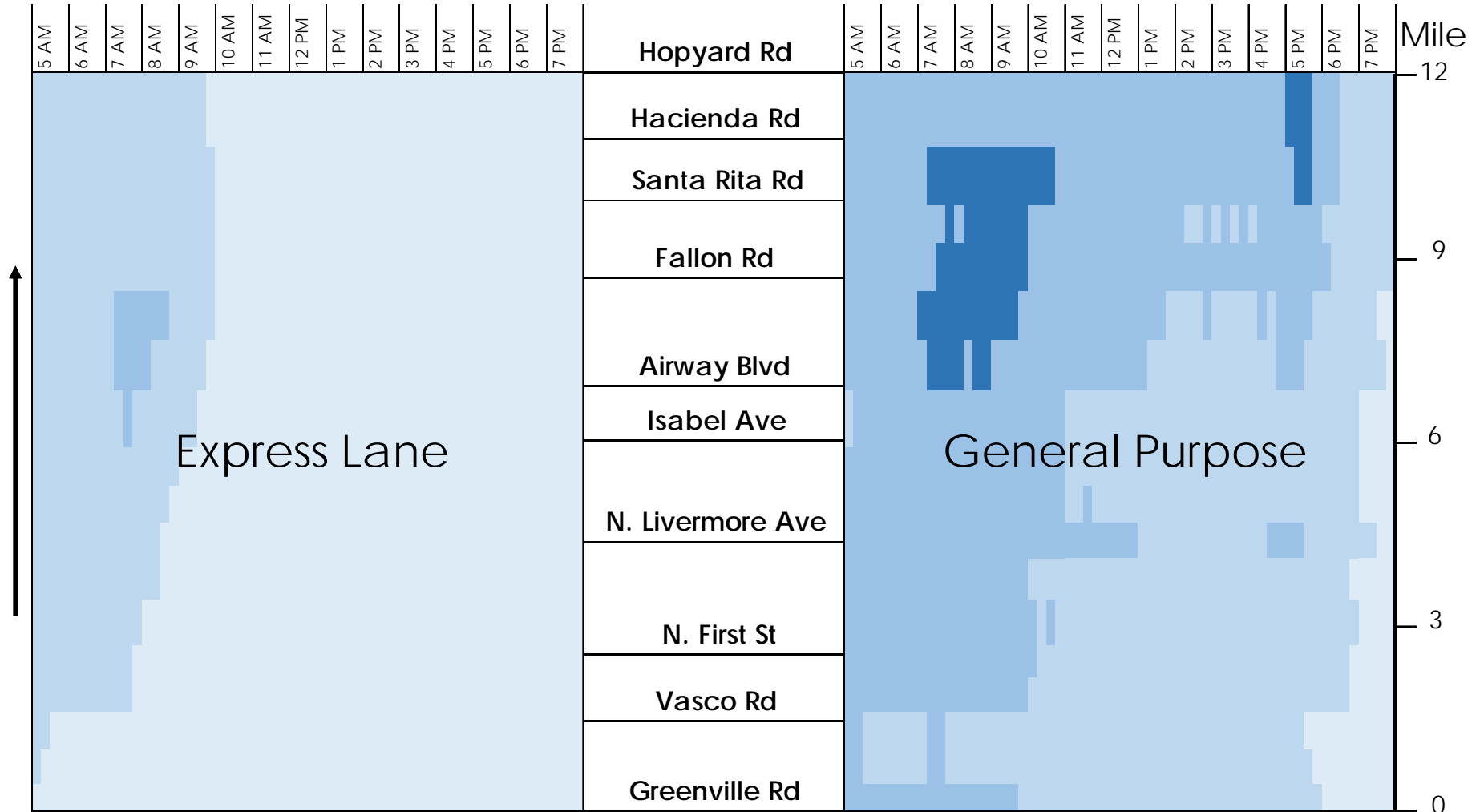
# Westbound Corridor Speed Heat Maps

Monday-Friday, April 2016 – August 2016



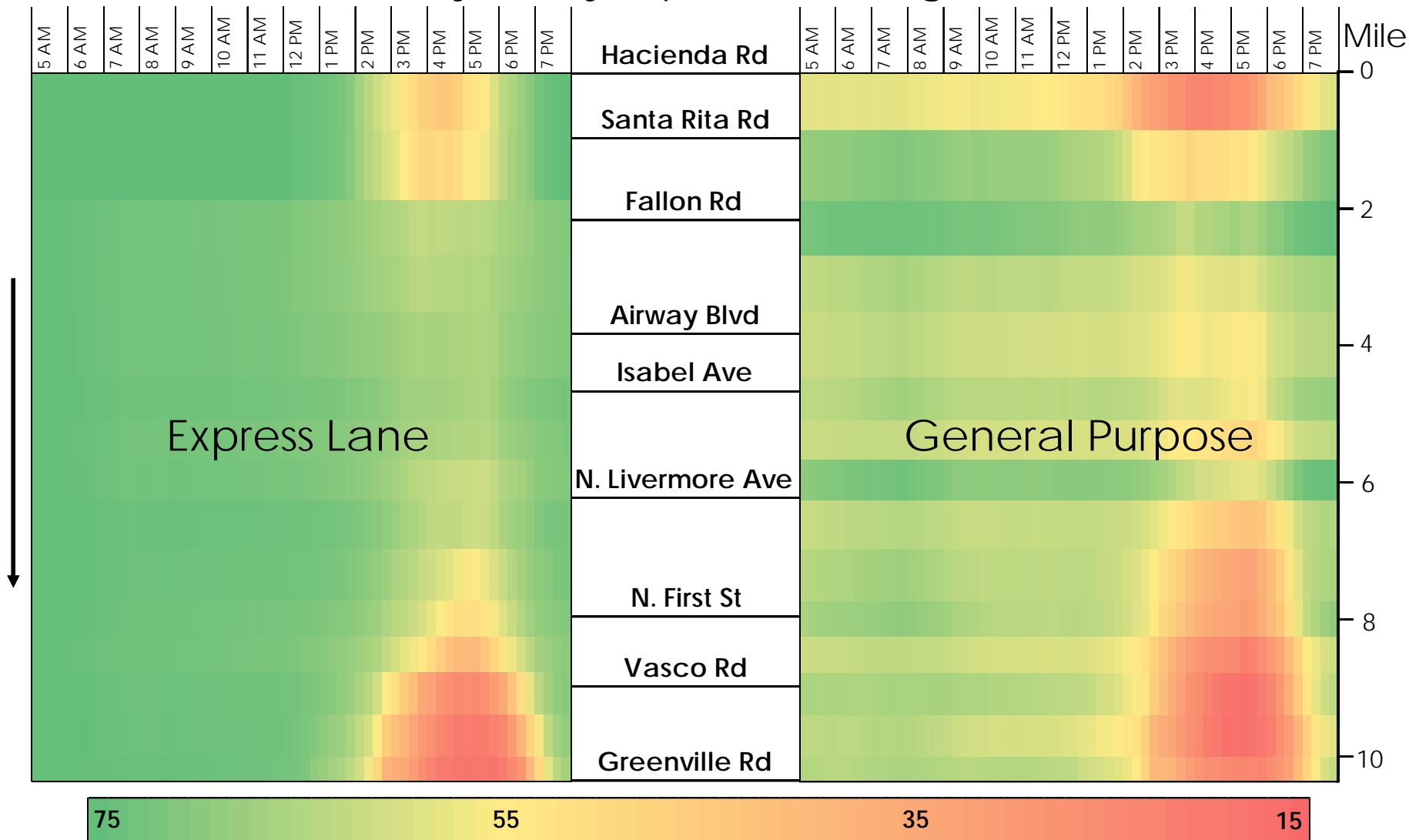
# Westbound Corridor Density Heat Maps

Monday-Friday, April 2016 – August 2016



# Eastbound Corridor Speed Heat Maps

Monday-Friday, April 2016 – August 2016



# Eastbound Corridor Density Heat Maps

Monday-Friday, April 2016 – August 2016

