



# Meeting Notice

1111 Broadway, Suite 800, Oakland, CA 94607

• 510.208.7400

• [www.AlamedaCTC.org](http://www.AlamedaCTC.org)

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Arthur L. Dao

## I-580 Express Lane Policy Committee

**Monday, February 13, 2017, 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.

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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**

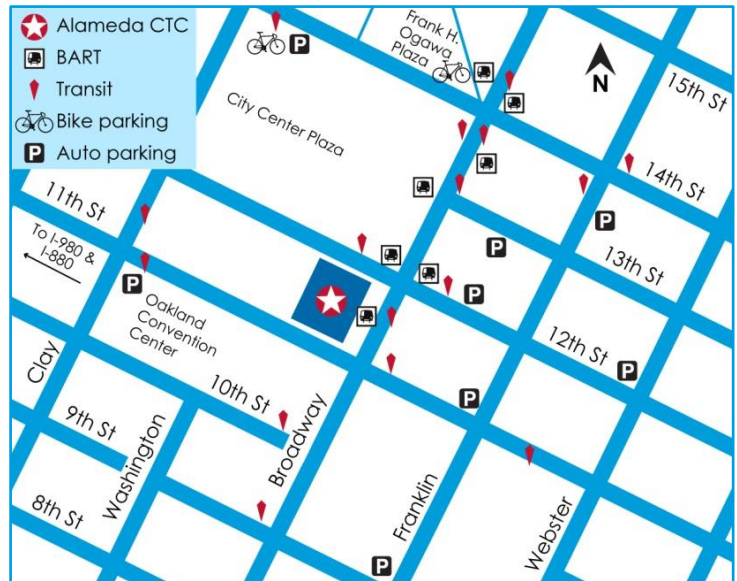
A glossary that includes frequently used acronyms is available on the Alameda CTC website at [www.AlamedaCTC.org/app\\_pages/view/8081](http://www.AlamedaCTC.org/app_pages/view/8081).

## 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, February 13, 2017, 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:** Supervisor Nate Miley, Alameda County, District 4  
**Commissioners:** Scott Haggerty, David Haubert, Jerry Thome  
**Ex-Officio Members:** Rebecca Kaplan, Richard Valle  
**Staff Liaison:** Elizabeth Rutman  
**Executive Director:** Arthur L. Dao  
**Clerk:** Vanessa Lee

1. Roll Call
2. Public Comment
3. Consent Calendar 

<b>Page</b>	<b>A/I</b>
3.1. <a href="#">Approve the January 9, 2017 I-580 Express Lane PC meeting minutes.</a>	1      A
4. Regular Matters 

4.1. <a href="#">Status update on the operation of I-580 Express Lane</a>	3      I
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5. Committee Member Reports
6. Staff Reports
7. Adjournment

**Next Meeting:** March 13, 2017

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, January 9, 2017, 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 Miley.

### Subsequent to the roll call:

Commissioner Miley 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 November 14, 2016 Meeting Minutes

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

Yes: Marchand, Haggerty, Thorne, Kaplan

No: None

Abstain: None

Absent: Miley

## 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 months of October and November 2016, including aggregated information for the prior six months. She shared information on the corridors performance specifically average daily trips by month, Express Lane transaction breakdowns and speed/density data locations for both months. Liz also covered speed and density heat maps, average daily toll rates and cumulative gross revenue.

Commissioner Haubert asked if the length of the I-580 express lane segment is the same as length of I-680 lanes. Liz stated that the length of the lanes are comparable.

Commissioner Haubert asked if data was collected to see how many users are tolling through both I-580 west from San Joaquin County to I-680 south in Fremont. Liz stated that the two systems are separate which restricts the agency from being able to collect that data.

Commissioner Haggerty wanted more information on the percentage of toll violators in the lane. Liz stated roughly 10% of user are violators, with a small amount being caught through CHP enforcement.

Commissioner Haggerty asked how many trips have we had in the I-680 corridor since the opening. Liz stated that approximately 5 million toll trips in the corridor.

*This item was for information only.*

**5. Committee Member Reports**

There were no committee member reports.

**6. Staff Reports**

There were no staff reports.

**7. Adjournment/ Next Meeting**

The next meeting is:

Date/Time: Monday, February 13, 2017 at 10:00 a.m.

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

Attested by:



Vanessa Lee, Clerk of the Commission



**DATE:** February 6, 2017

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

**RECOMMENDATION:** Status update on the operation of I-580 Express Lane

## Summary

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

The December 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 of 5 to 23 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 Attachment A for express lane operation limits. 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.

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.

**December 2016 Operation Update:** Nearly 640,000 express lane trips were recorded during operational hours in December. 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 FasTrak toll tag then the vehicle is either assessed a toll by means of an existing FasTrak account or issuing a notice of toll evasion violation to the registered vehicle owner based on the license plate read by the Electronic Tolling System. Of those motorists without a toll tag, approximately 12% of total trips were matched to existing FasTrak accounts by means of license plate information. The percentage of trips resulting in violation notices is thus less than 13%.

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

Trip Classification		Percent of Trips
By Type	HOV-eligible with FasTrak flex tag	34%
	SOV with FasTrak standard or flex tag	41%
	No Tag or Invalid Tag	25%
By Direction	Westbound	44%
	Eastbound	56%

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).

Table 2 summarizes the average speed differentials and LOS at four locations in each of the westbound and eastbound directions during respective commute hours for December.

Attachment B presents the speed and density heat maps for the I-580 corridor during revenue hours for the six-month period from July – December 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 July through December, the average speeds in the westbound express lane ranged from 50 to 70 mph during the morning commute hours (5 am to 11 am) with lower speeds occurring between Isabel Avenue and Santa Rita Road; average speeds throughout the rest of the day exceeded 70 mph. The express lane operated at LOS B or better at all times, with LOS B occurring only for a short period of time in the middle of the corridor (Isabel Avenue to Santa Rita Road). By comparison, the general purpose lanes experienced speeds as low as 35 mph and LOS D for much



longer periods of time, throughout a greater portion of the corridor. During the evening commute, the westbound lanes experience a small period reverse-commute congestion between San Ramon Road and Hacienda Road from 5 pm to 6 pm, though the express lane continued to operate at LOS B or better during this time.

Table 2. Speed Differentials and Level of Service for December 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	5 - 8	7	A	C
	North Livermore Ave	4 - 6	5	A	C
	Fallon Road	5 - 9	6	B	C
	Santa Rita Road	9 - 12	11	B	C
Eastbound Evening Commute: 2 pm – 7 pm	Hacienda Road	18 - 28	23	C	E
	Airway Blvd	9 - 13	11	B	C
	North First Street	4 - 8	6	B	C
	Vasco Road	8 - 20	13	B	C

In the eastbound direction, average express lane speeds from July through December 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. 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 4 pm and 6 pm; average LOS B or better was realized throughout the rest of the day in all locations. By comparison, the general purpose lanes experienced lower speeds and LOS F at the western end of the corridor, and speeds and LOS similar to the express lanes but for a longer period of time at the eastern end of the corridor, during the evening commute hours.

Table 3 presents the maximum posted toll rates to travel the entire corridor in each direction, along with the average toll assessed to non-HOV users, for December 2016.

Table 3. Toll Rate Data for December 2016

Direction	Maximum Posted Toll (Travel Entire Corridor)	Average Assessed Toll (All Trips)
Westbound	\$7.25	\$1.45
Eastbound	\$6.25	\$1.82

Through December 2016, the I-580 Express Lanes have recorded over 6.8 million total trips. Total gross revenues received include over \$7.4 million in gross toll revenues and nearly \$913,000 in violation penalties.

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.

**Attachments**

- A. I-580 Corridor Express Lane Location Map
- B. I-580 Corridor Heat Maps July – December 2016

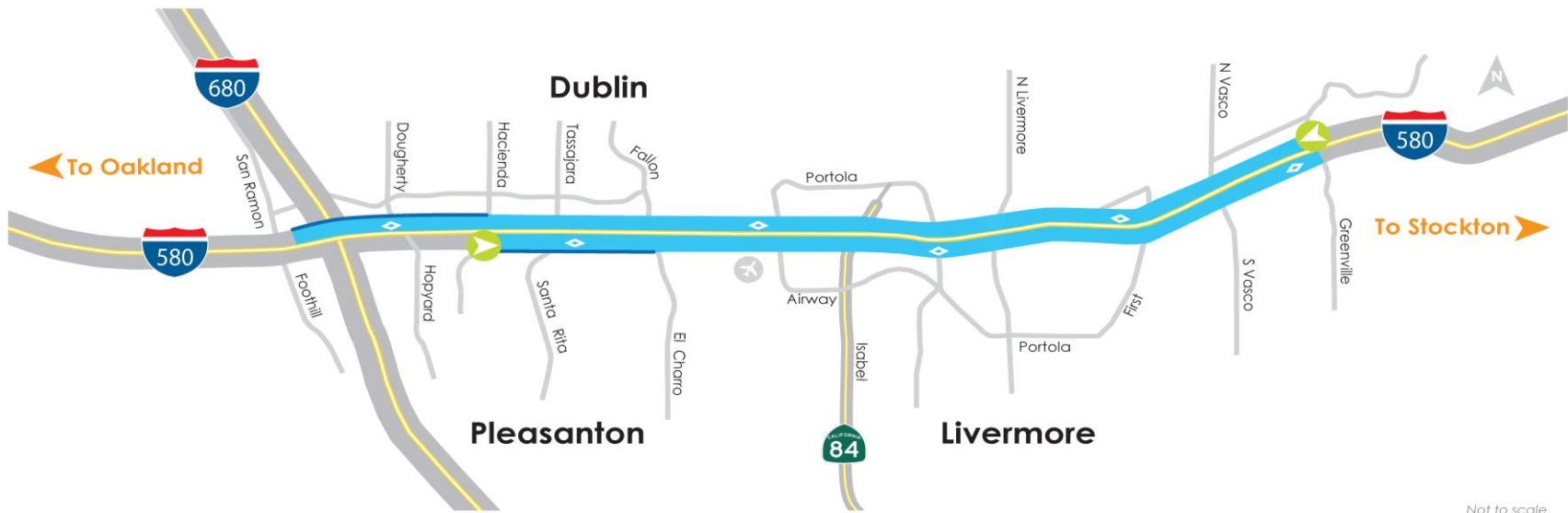
**Staff Contact**

[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

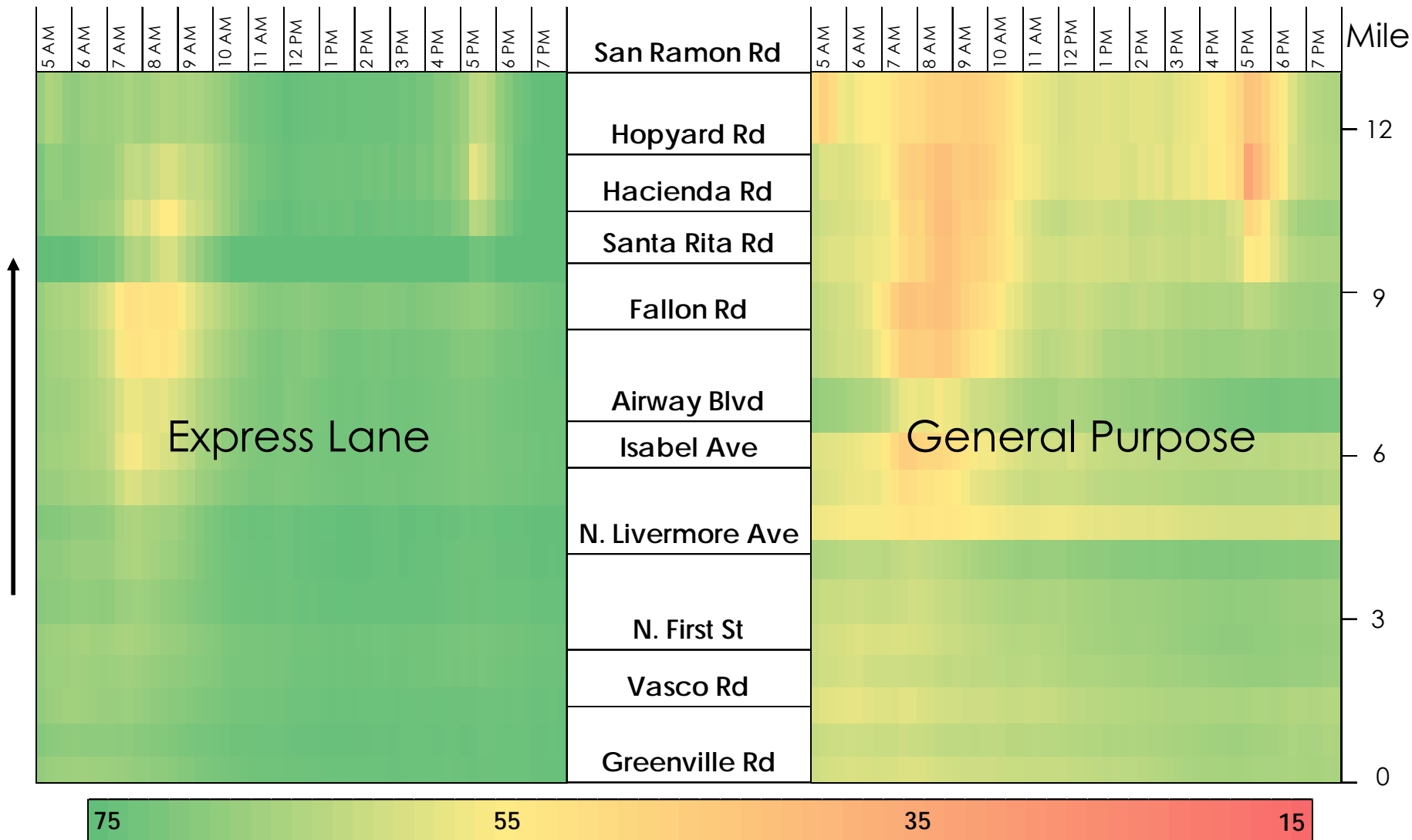
No entry/exit from westbound express lane from Hacienda to end.

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

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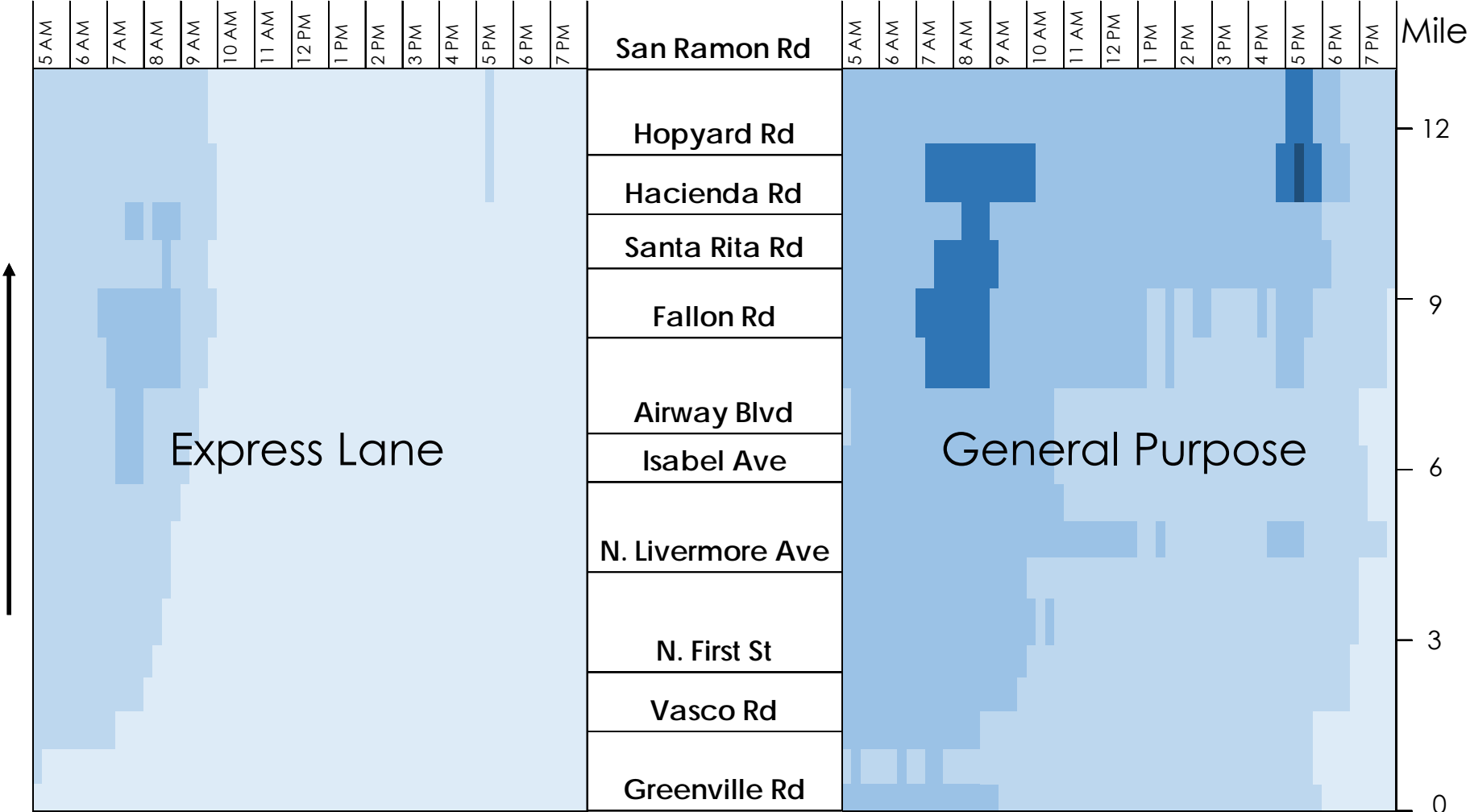
# Westbound I-580 Corridor Speed Heat Maps

Monday-Friday, July 2016 – December 2016



# Westbound I-580 Corridor Density Heat Maps

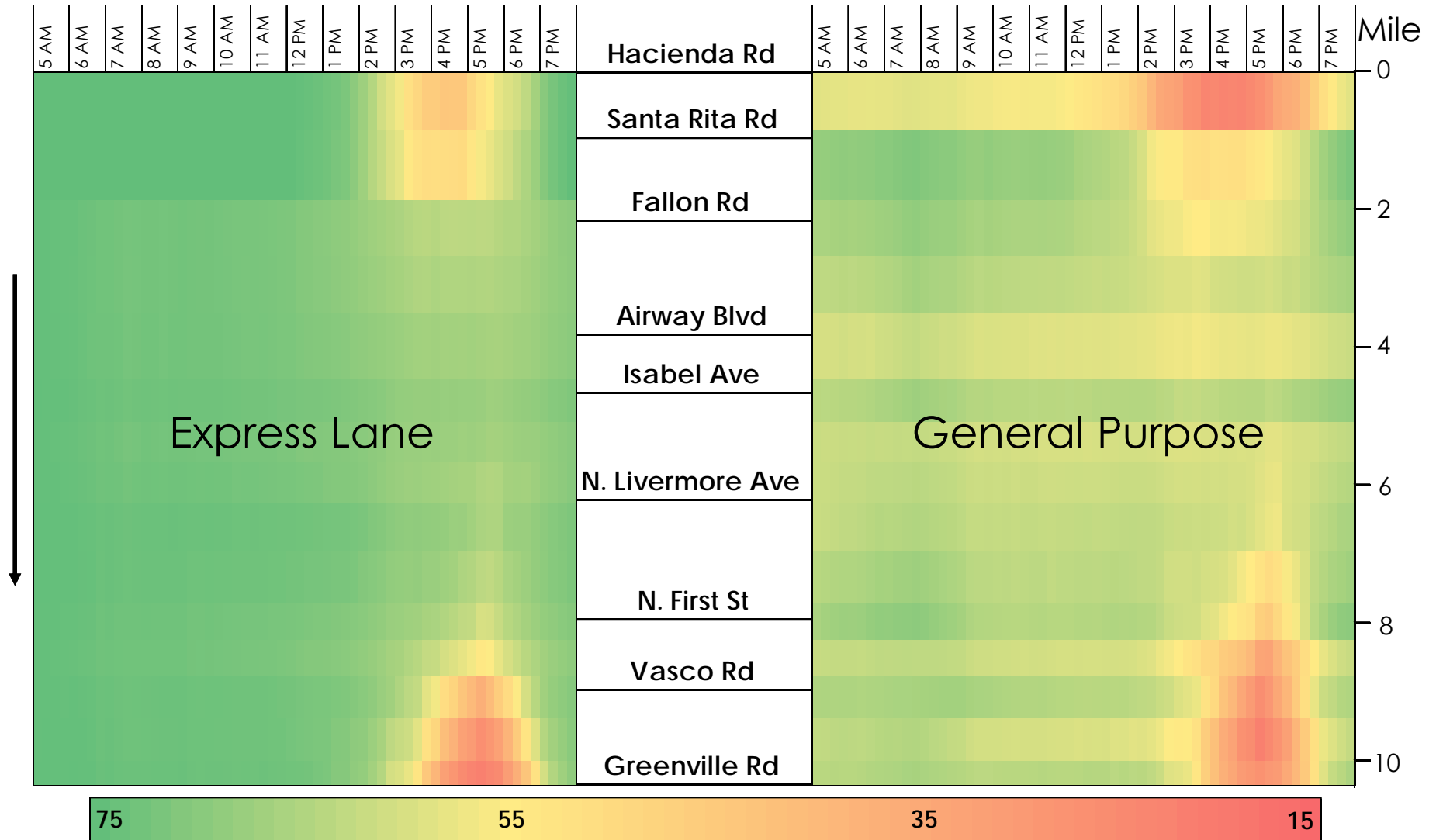
Monday-Friday, July 2016 – December 2016



LOS A	LOS B	LOS C	LOS D	LOS E	LOS F
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# Eastbound I-580 Corridor Speed Heat Maps

Monday-Friday, July 2016 – December 2016



# Eastbound I-580 Corridor Density Heat Maps

Monday-Friday, July 2016 – December 2016

