



smart corridor

INTERSTATE 80
INTEGRATED CORRIDOR MOBILITY

WCCTAC BOARD

September, 23 2016



CONTRA COSTA
transportation
authority

I-80 SMART CORRIDOR RIBBON CUTTING

SEPTEMBER 19, 2016



STATUS AND UPCOMING SCHEDULE

- Sequenced Activation (Go Live)
 - July 13: Traffic Information Boards - **Announcement Message**
 - July 19: Ramp Meters - **Rest in Green**
 - July 26: Ramp Meters - **ON**
 - September 1: Lane Use and Speed Signs and Information Boards w/ Traveler Info - **ON**
 - Late September: All Strategies ON
- Signal Retiming: November 2016 to April 2017
- After Studies: November 2016 to May 2017

OPERATING HOURS

- Ramp Metering:

5AM - 8PM **ON**

8PM - 5AM **OFF** *except during incidents*

- Information Display Boards:

5AM - 8PM **ON**

8PM - 5AM **OFF** *except during incidents*

- Active Traffic Management:

- Variable Advisory Speed Signs
- Lane Use Signs
- Trailblazer Signs
- Traffic Signals

Available 24 /7: **ON** *during Incidents*





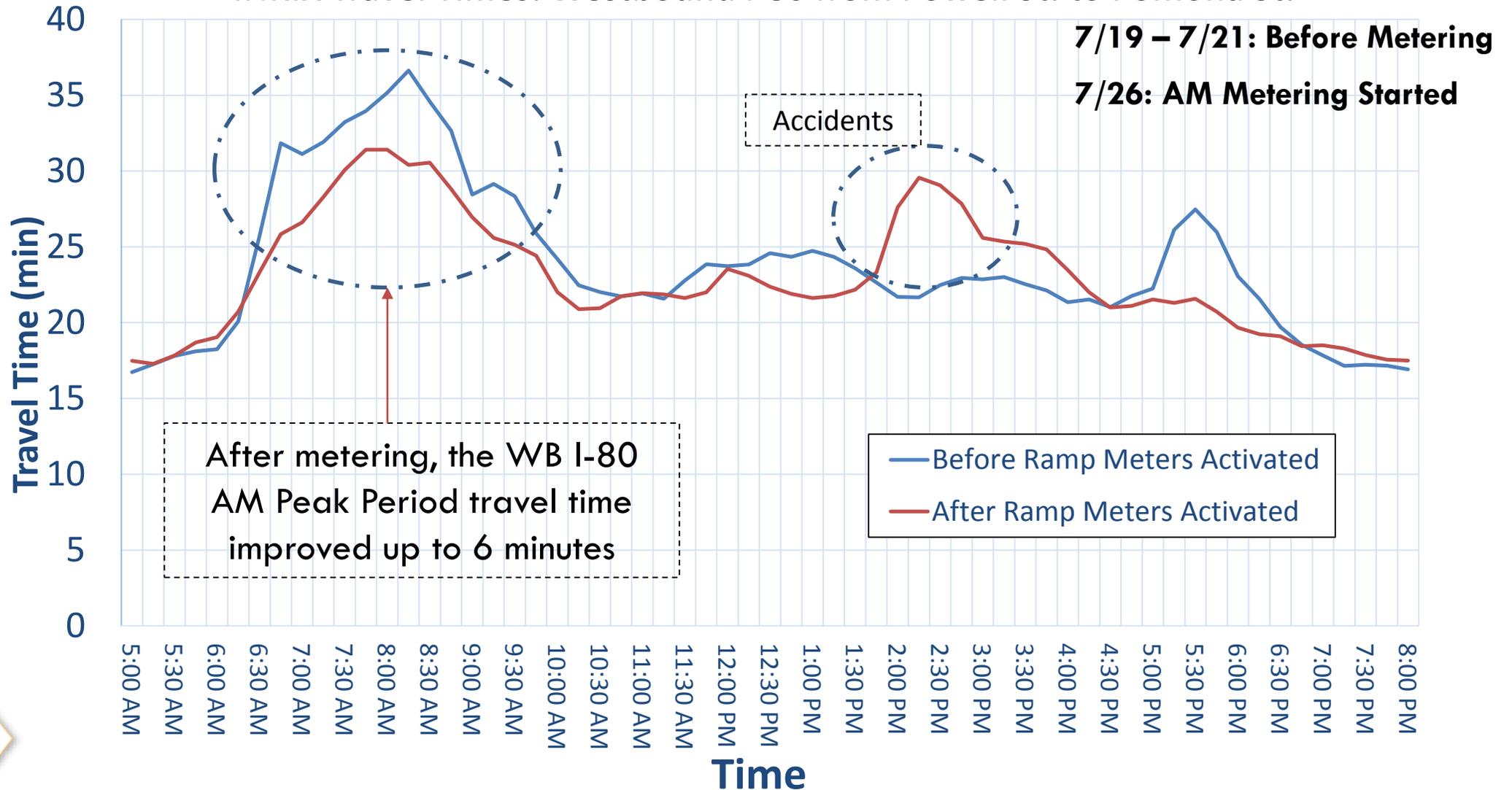
- Started Operations of Lane Use and Speed Signs on August 25, 2016
 - 10 Lane Blocking Incidents
 - 3 EB
 - 7 WB
 - 1 – 3 Lanes Blocked
 - No reported/observed secondary accidents

RAMP METERING UPDATE JULY/AUGUST

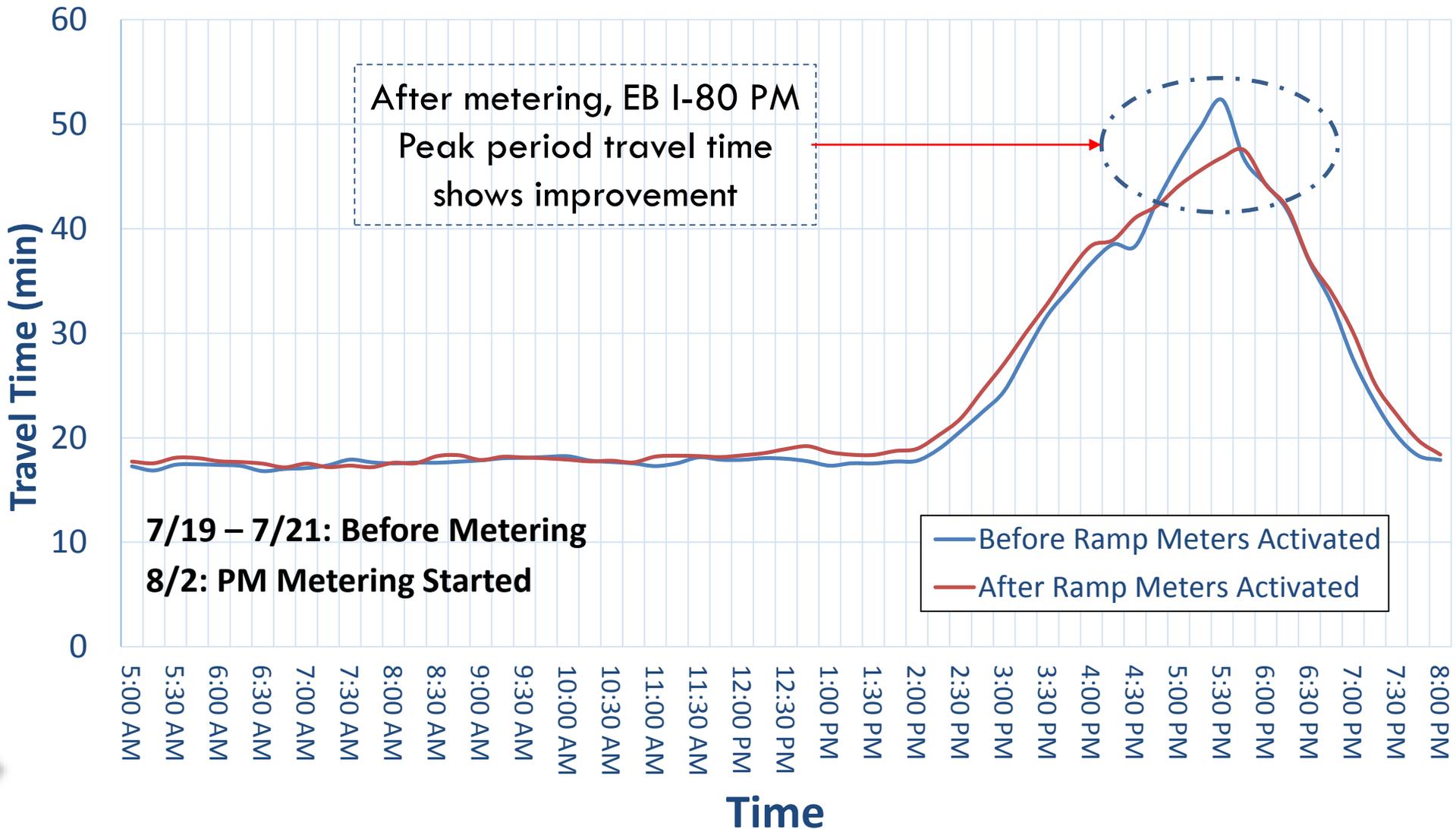
- 8 – 12 engineers in the field during initial activation
 - All onramps were monitored
- Operated as expected
 - Typical driver behavior
- Onramp queues were contained to ramps
- Ramp Metering Works
 - Improved freeway performance for both peak periods

RAMP METERING WORKS

INRIX Travel Times: Westbound I-80 from Powell St. to Pomona St.



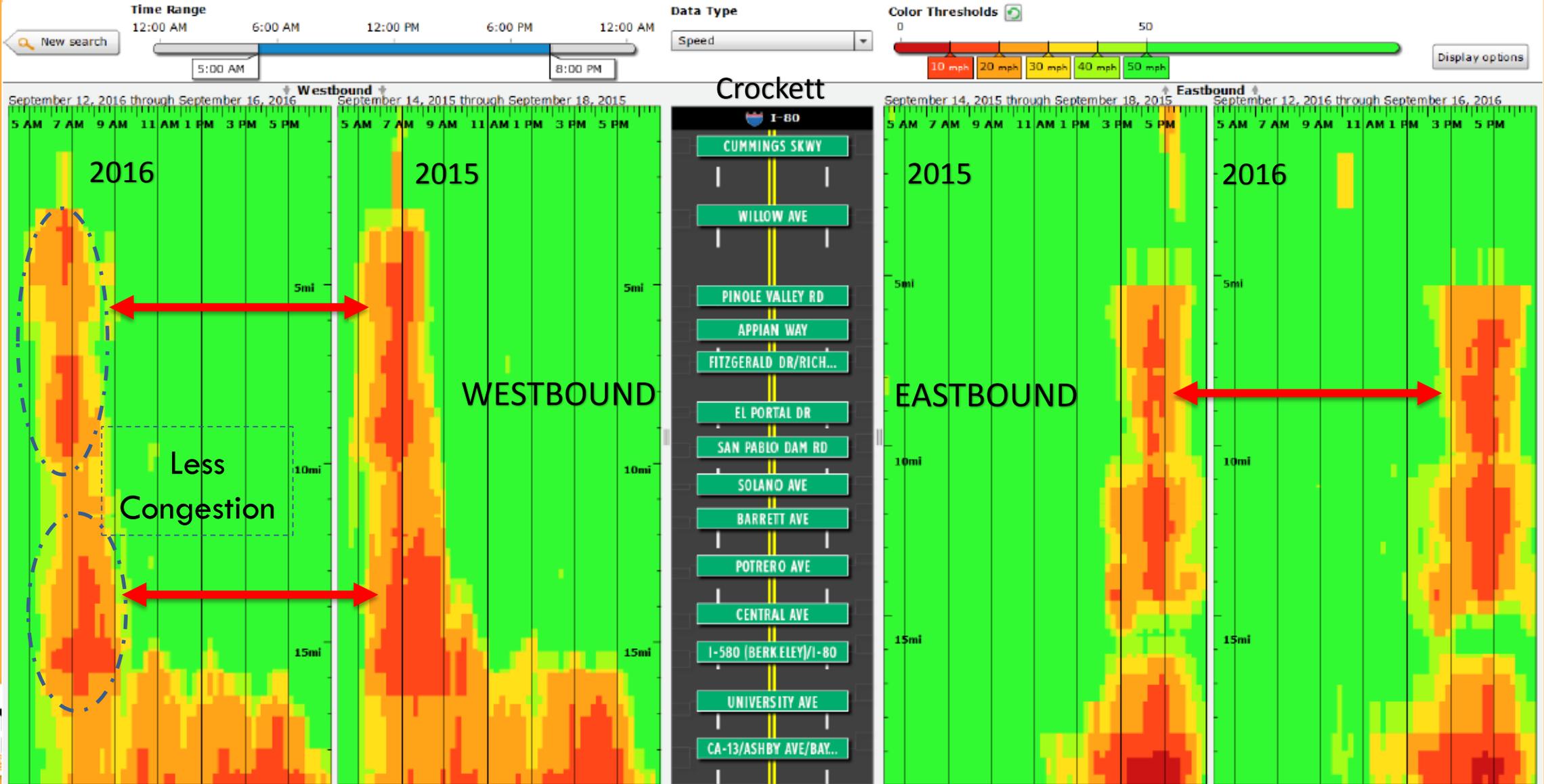
INRIX Travel Times: Eastbound I-80 from Powell St. to Pomona St.



RAMP METERING UPDATE AUGUST/SEPTEMBER

- Regular monitoring and adjustments
- Typical Fall traffic patterns returned at end of August
- Potential Trends:
 - Traffic volumes up compared to 2014 – 2015
 - PM Peak period expanding
 - Metering improved off-peak, AM WB commutes
 - Impacts at select locations on San Pablo Ave
 - Need more data and larger measurement period

I-80 CONGESTION MAP (9/2016 vs 9/2015)

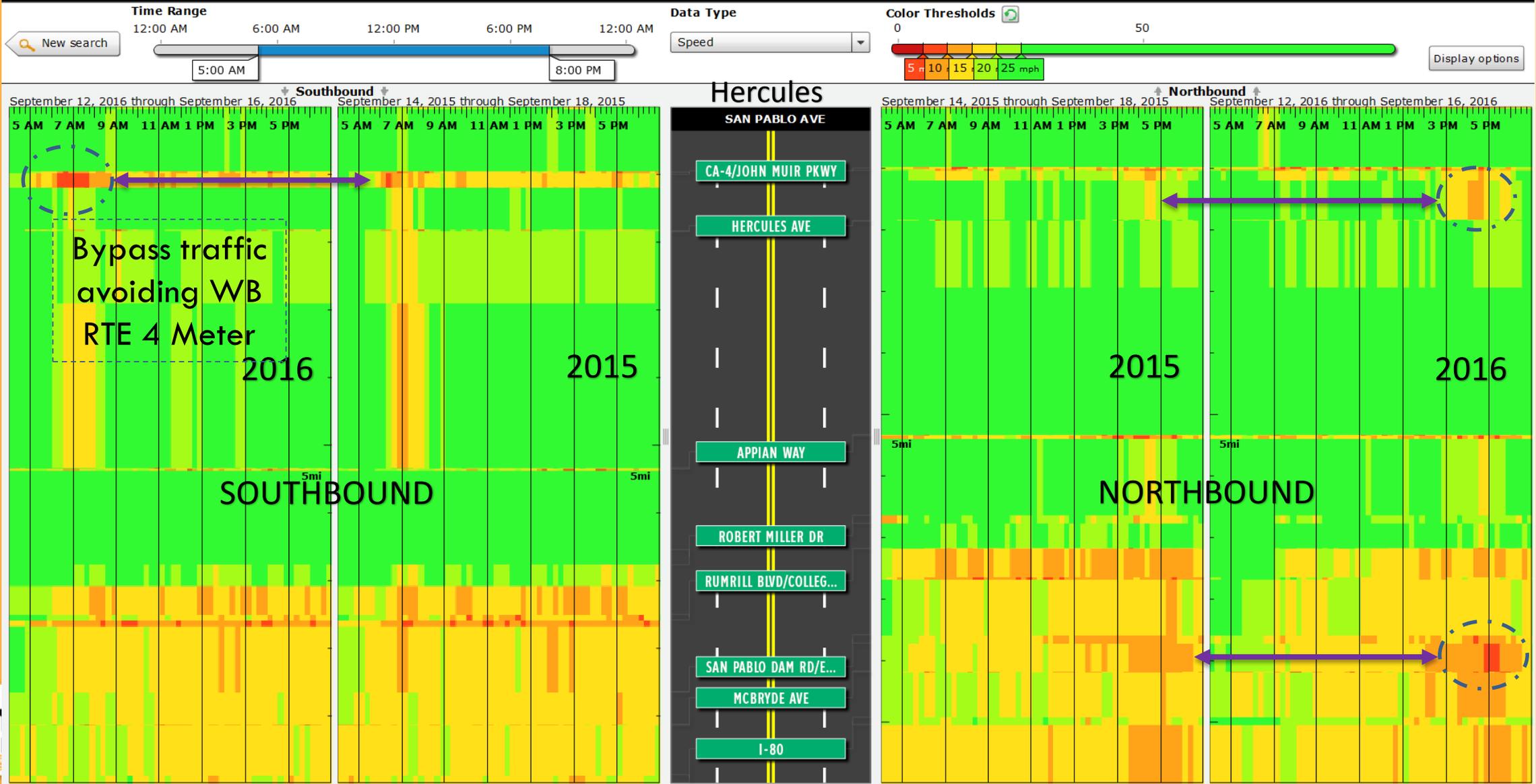


Source: Inrix

Emeryville



SAN PABLO AVE CONGESTION MAP (9/2016 vs 9/2015)



Source: Inrix

Richmond

AREAS OF INTEREST

- Public Responses Addressed
 - 39 Voicemails on Hotline
 - 15 Inquires via Website
- Ramp Backups/Queues
 - WB RTE 4 (AM)
 - WB Pinole Valley Rd (AM)
 - EB Pinole Valley Rd (PM)
 - WB Appian Way (AM)
 - EB Appian Way (PM)
 - EB Richmond Parkway (PM)
 - EB Hilltop Dr (PM)
- Bypass Traffic Using On/Off Ramps Causing Ramp Backups
 - WB / EB Pinole Valley Rd
 - WB / EB Appian Rd
- Acceleration Concerns
 - WB El Portal Ave
 - WB Pomona St
 - EB Pinole Valley Rd
- San Pablo Ave Congestion near RTE 4 (AM Commute)

MOVING FORWARD

WE ARE HERE TO HELP

- Activate of San Pablo Ave incident management strategies
 - Late September
- Monitor corridor performance and optimize metering rates for fall traffic patterns
 - Monitor and evaluate all ramps
 - Evaluate 2 Cars per Green @ WB RTE 4
 - Late September to early October
- Review reported safety complaints and develop action plans as needed
- Implement bypass restrictions at affected off/on ramps
 - Request CHP and local PD to enforce
 - Late 2016
- Collect traffic counts and develop traffic models for San Pablo Ave for traffic signal optimization
 - Late 2016 to early 2017

QUESTIONS ?

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Ramp Metering Hotline
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