Evolving to ATSPM for Safety and Mobility within Small Communities

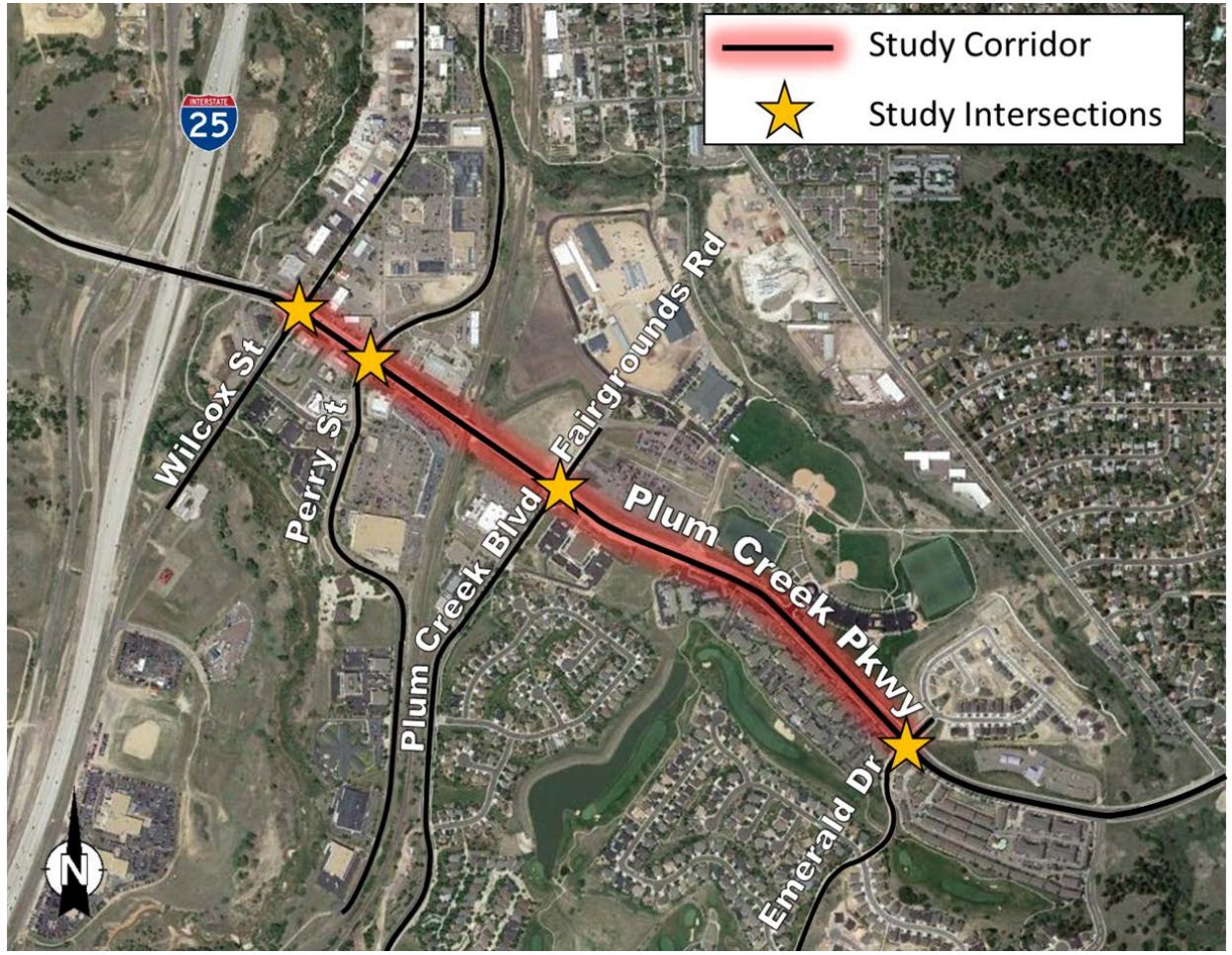
Coors Boulevard
Albuquerque, NM

Central Avenue, Albuquerque, NM

- Implementation of Bus Rapid Transit

Plum Creek Parkway, Castle Rock, CO

- Remote Server Set-up
- Implementation
- Training



I25/Rio Bravo
Interchange Reconstruction

Fitness Tracker for Traffic Signals

High Resolution Data Collection

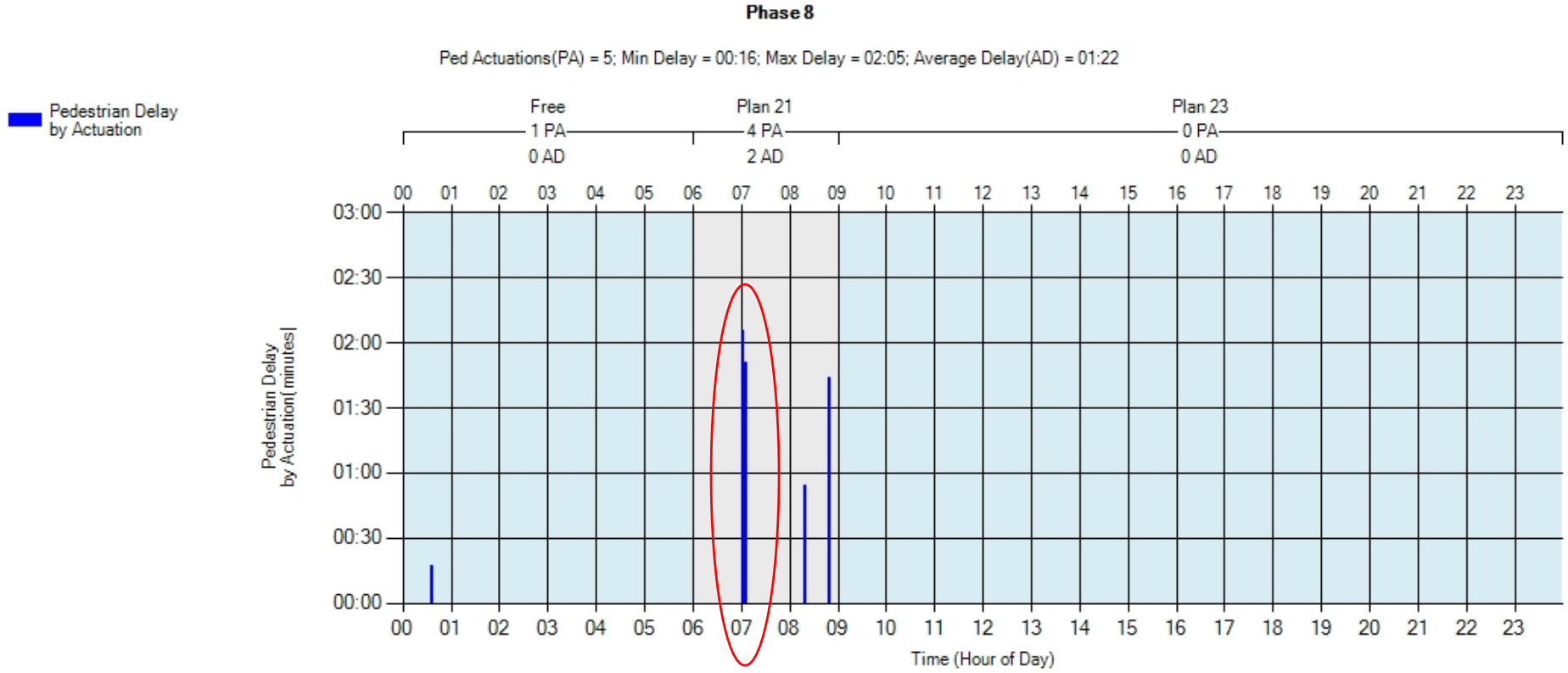
Data Analysis and Performance Report Tools

Value at Any Level

Version #	2
).19.2.204_2017_05_31_1545.dat	
Intersection #	10.19.2.204
IP Address:	10.19.2.204
MAC Address:	00:04:81:02:8b:ba
Controller Data Log Beginning:	5/31/17 3:45 PM

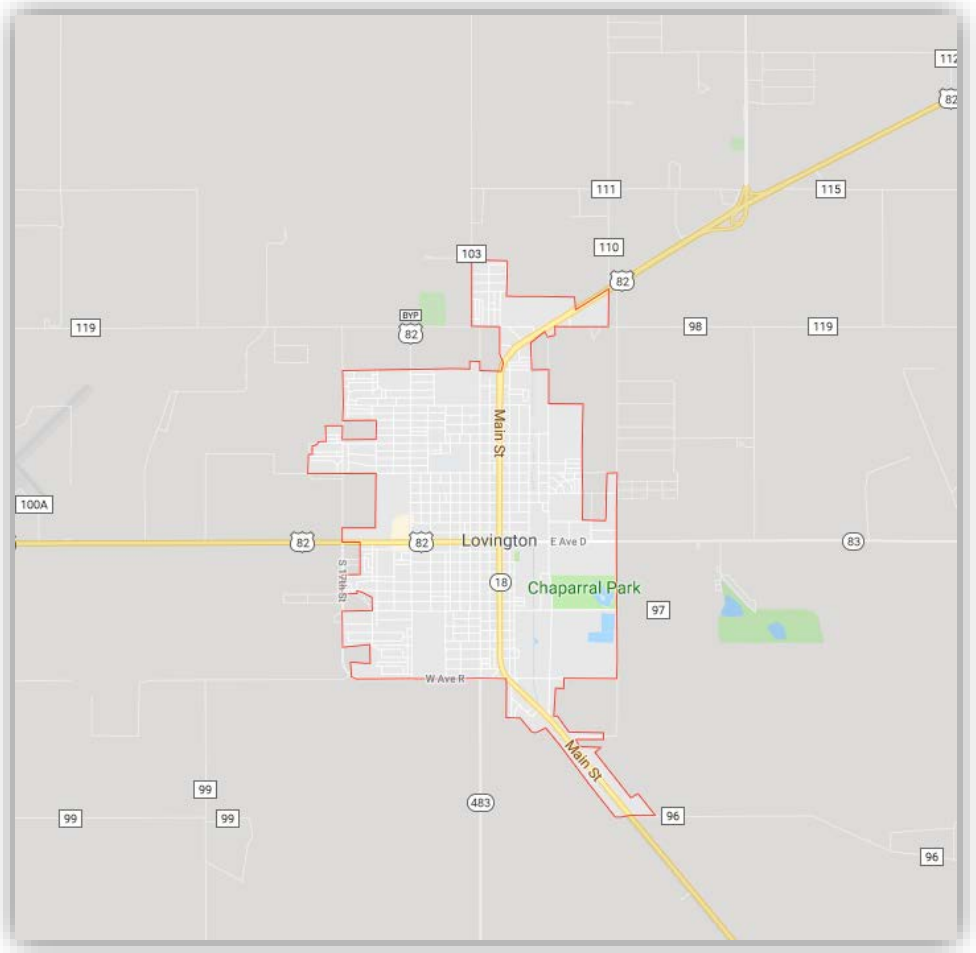
Time	EventType	Parameter	TimeAsDecimal	EventText	ParameterText	EventGroup
7:01:29 AM	90	8	7.02472	PedDetector On	DET Channel # (1- 16)	Detector
7:01:29 AM	90	8	7.02472	PedDetector On	DET Channel # (1- 16)	Detector
7:01:51 AM	90	8	7.03083	PedDetector On	DET Channel # (1- 16)	Detector
7:01:52 AM	90	8	7.03111	PedDetector On	DET Channel # (1- 16)	Detector
7:02:52 AM	90	6	7.04778	PedDetector On	DET Channel # (1- 16)	Detector
7:02:52 AM	90	6	7.04778	PedDetector On	DET Channel # (1- 16)	Detector
7:02:53 AM	90	6	7.04806	PedDetector On	DET Channel # (1- 16)	Detector
7:02:53 AM	90	6	7.04806	PedDetector On	DET Channel # (1- 16)	Detector
7:02:53 AM	90	6	7.04806	PedDetector On	DET Channel # (1- 16)	Detector
7:02:53 AM	90	6	7.04806	PedDetector On	DET Channel # (1- 16)	Detector
7:03:29 AM	90	6	7.05806	PedDetector On	DET Channel # (1- 16)	Detector
7:03:29 AM	90	6	7.05806	PedDetector On	DET Channel # (1- 16)	Detector
7:03:35 AM	90	8	7.05972	PedDetector On	DET Channel # (1- 16)	Detector
7:04:03 AM	90	6	7.06750	PedDetector On	DET Channel # (1- 16)	Detector
7:04:04 AM	90	6	7.06778	PedDetector On	DET Channel # (1- 16)	Detector
7:04:19 AM	90	6	7.07194	PedDetector On	DET Channel # (1- 16)	Detector
7:04:20 AM	90	6	7.07222	PedDetector On	DET Channel # (1- 16)	Detector
7:04:20 AM	90	6	7.07222	PedDetector On	DET Channel # (1- 16)	Detector
7:06:44 AM	90	8	7.11222	PedDetector On	DET Channel # (1- 16)	Detector

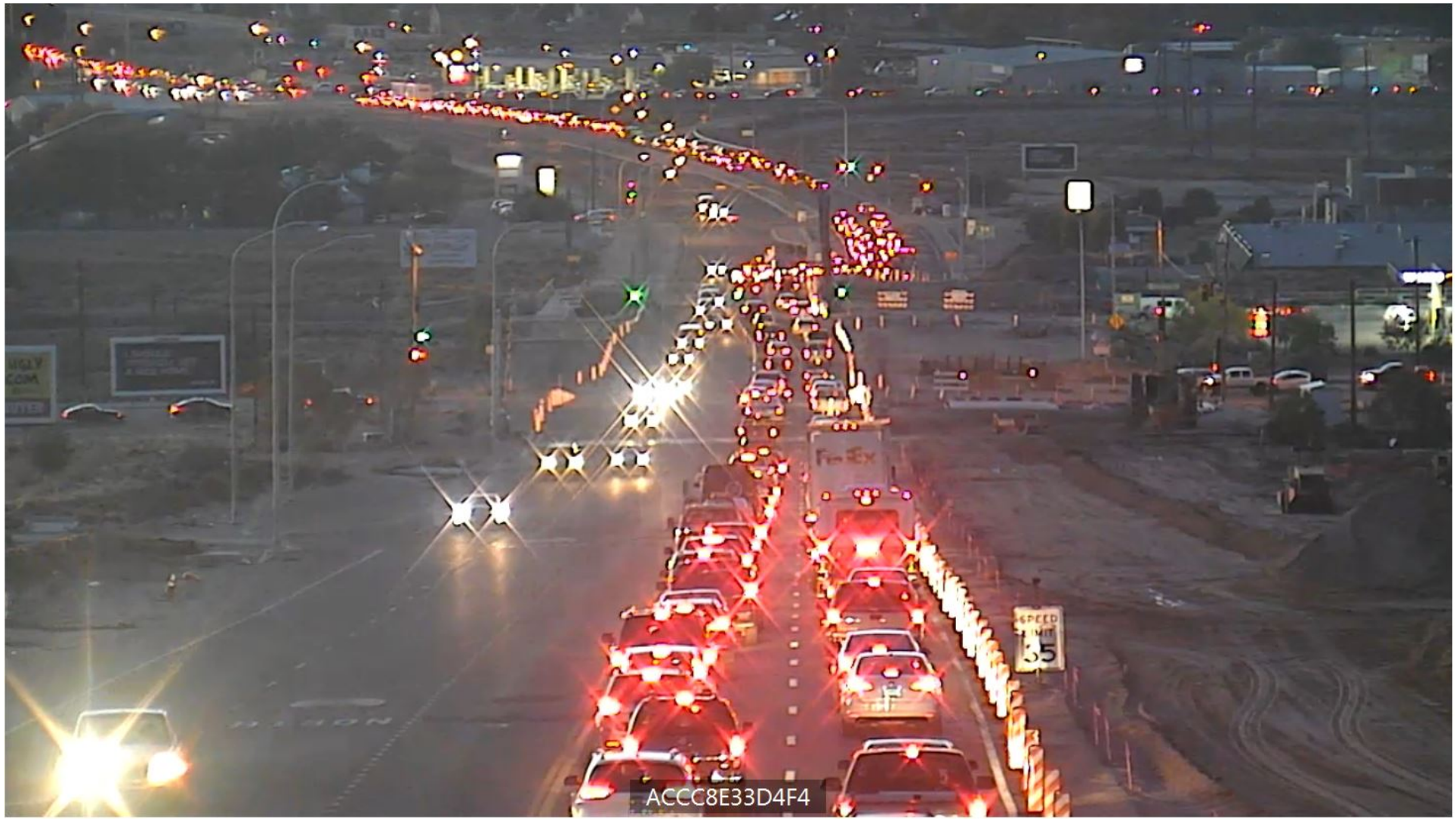
8	Timestamp	Event Typ	Paramet	Event Description
186	06/09/2017 7:01:28.7	45	8	Pedestrian Call Registered
312	06/09/2017 7:02:52.0	45	6	Pedestrian Call Registered
475	06/09/2017 7:03:34.6	21	8	Pedestrian Begin Walk
478	06/09/2017 7:03:34.8	45	8	Pedestrian Call Registered
648	06/09/2017 7:04:50.1	21	6	Pedestrian Begin Walk
913	06/09/2017 7:06:44.3	45	8	Pedestrian Call Registered
1137	06/09/2017 7:08:35.2	21	8	Pedestrian Begin Walk



Rural / Small Community Signal Timing Challenges

- Staffing
  - Availability
  - Skill set
- Remote Locations
  - Travel Time Savings
- Safety
  - Verified Functionality
  - Timely Responses

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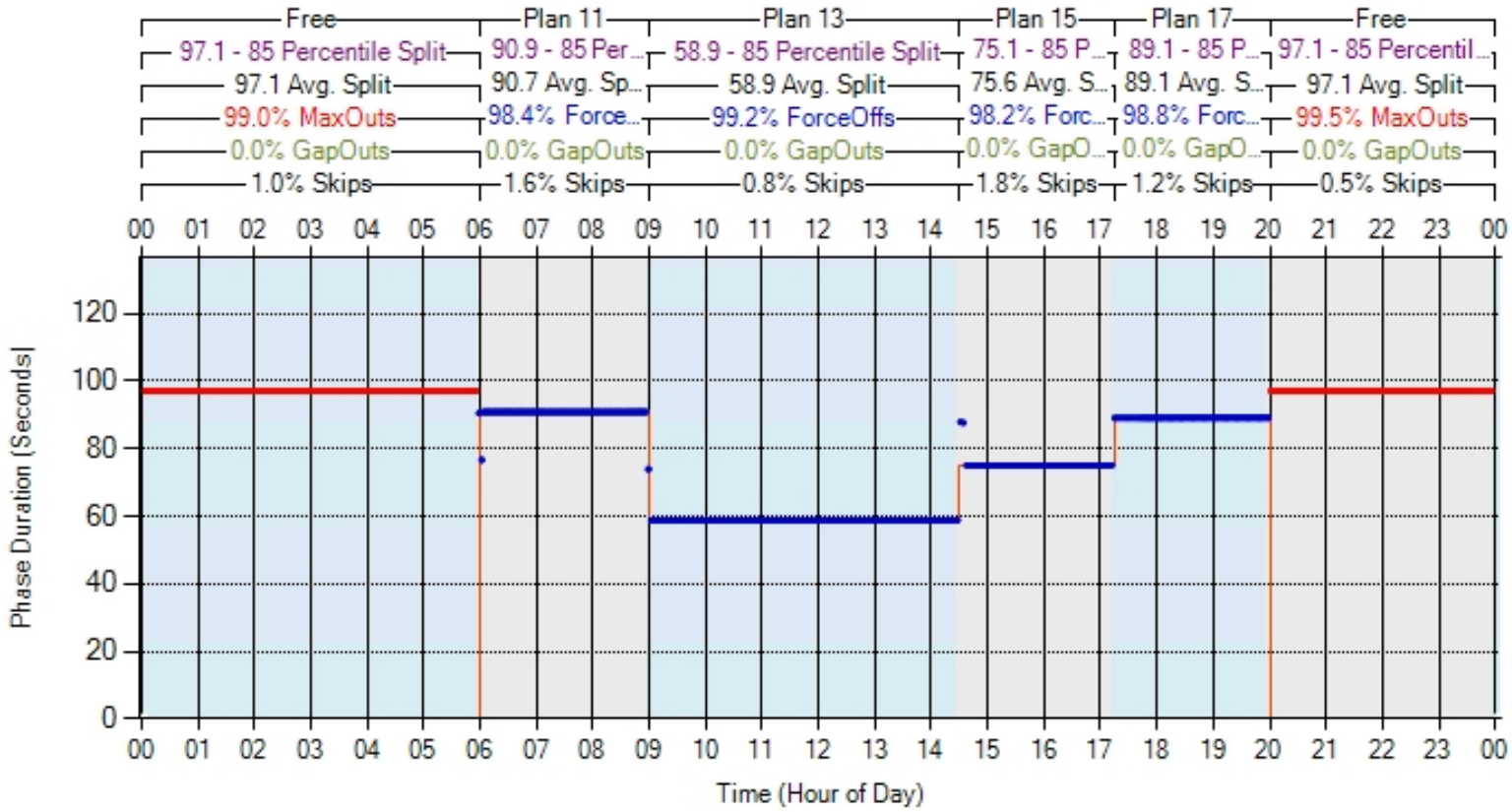
Solutions

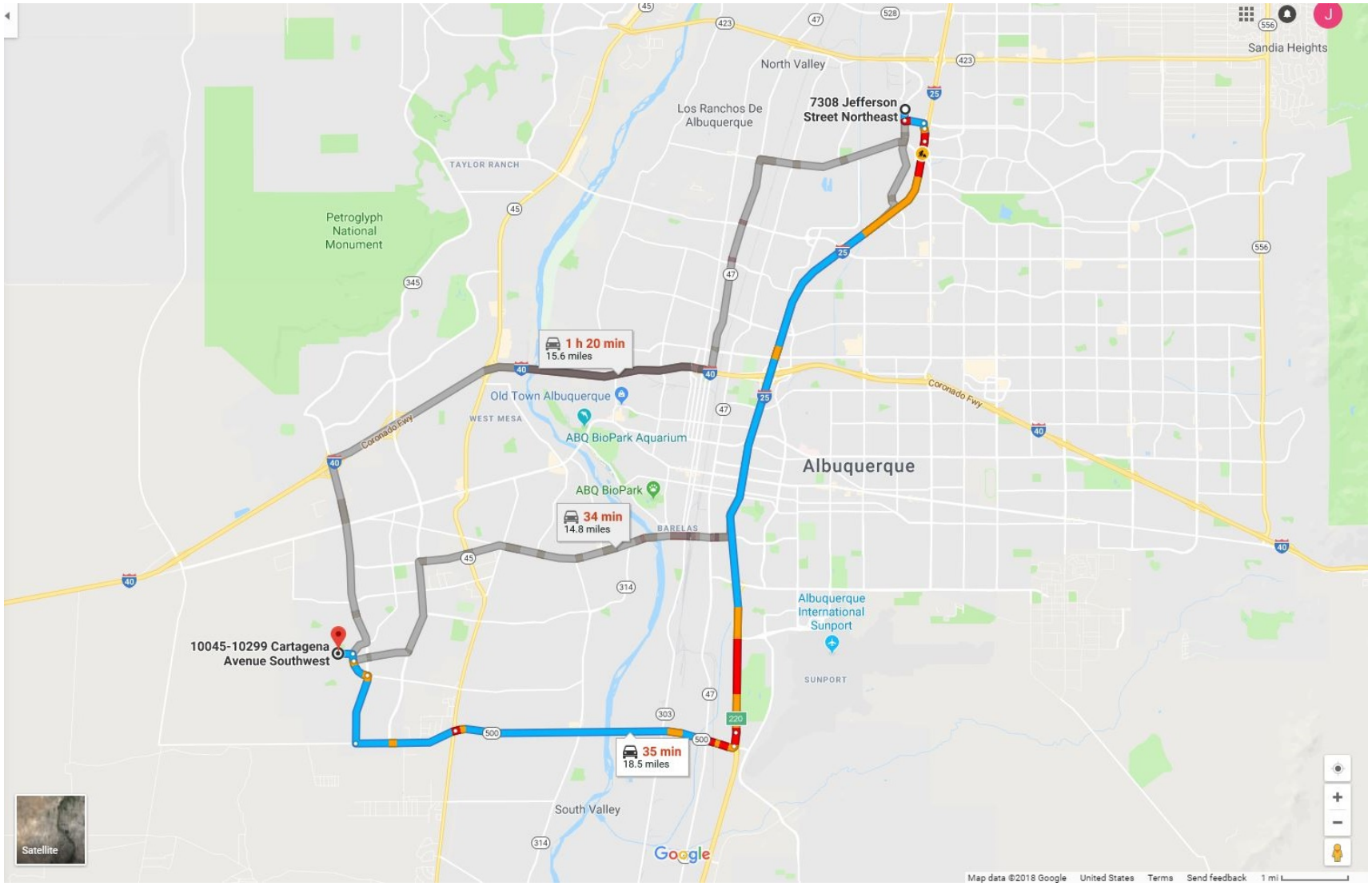
- Remote Communications
  - CDMA Modems
  - Network Switch
- CCTVs
  - Repurposed Existing Cameras
  - Early Installs
- Detection Systems
  - Cameras and Radar

Split Monitor

Rio Bravo @ Broadway - SIG#100
Thursday, March 8, 2018 12:00 AM - Thursday, March 8, 2018 11:59 PM

Phase 6




7308 Jefferson Street Northeast
10045-10299 Cartagena Avenue Southwest
1 h 20 min
15.6 miles
34 min
14.8 miles
35 min
18.5 miles
Albuquerque
North Valley
Los Ranchos De Albuquerque
Sandia Heights
Petroglyph National Monument
TAYLOR RANCH
Old Town Albuquerque
WEST MESA
ABQ BioPark Aquarium
ABQ BioPark
BARELAS
Albuquerque International Sunport
SUNPORT
South Valley
Coronado Fwy
Satellite
Google
Map data ©2018 Google
United States
Terms
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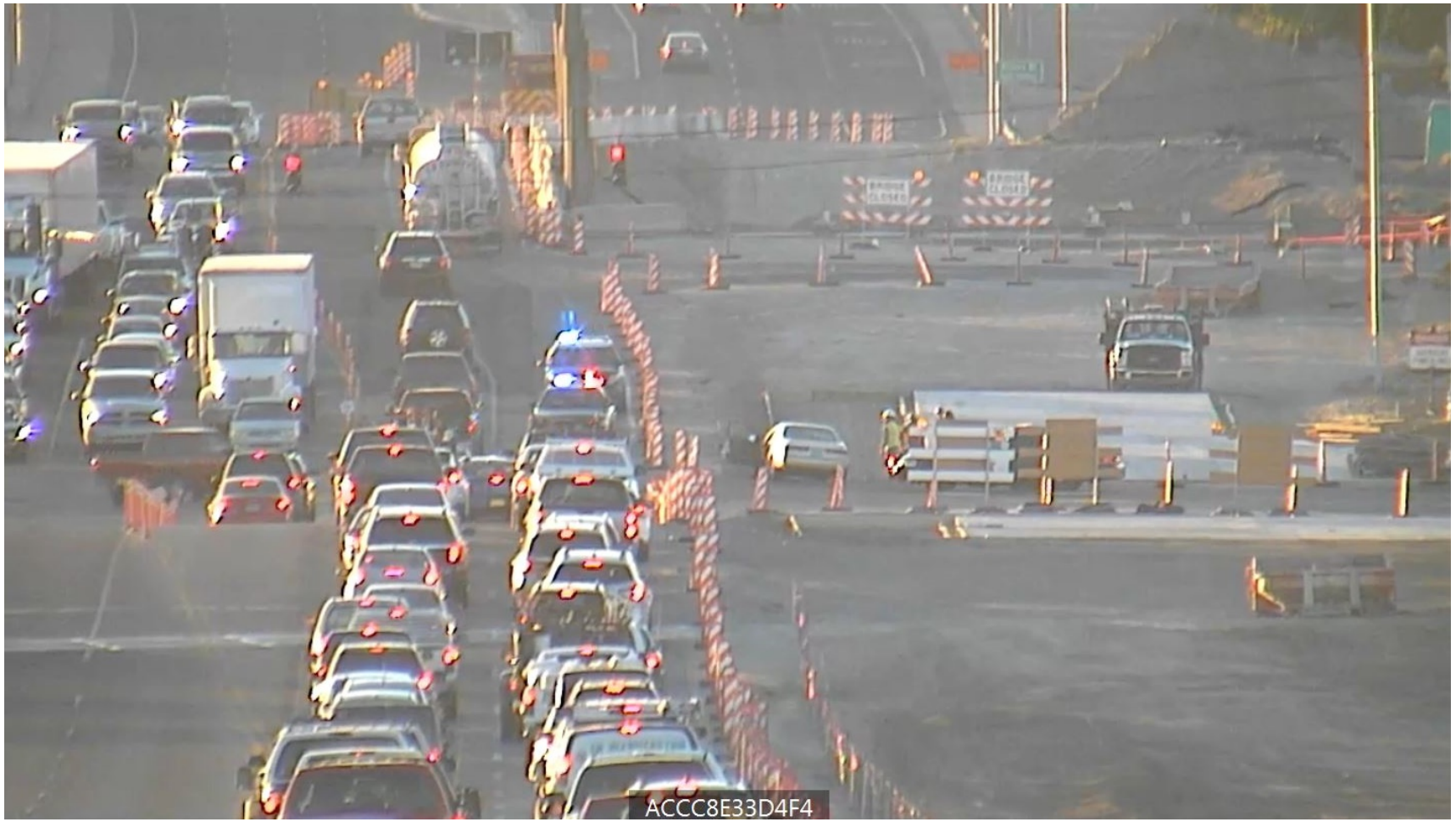
S 24.00 / D 24.00 / R 24.00 FPS QC 3.60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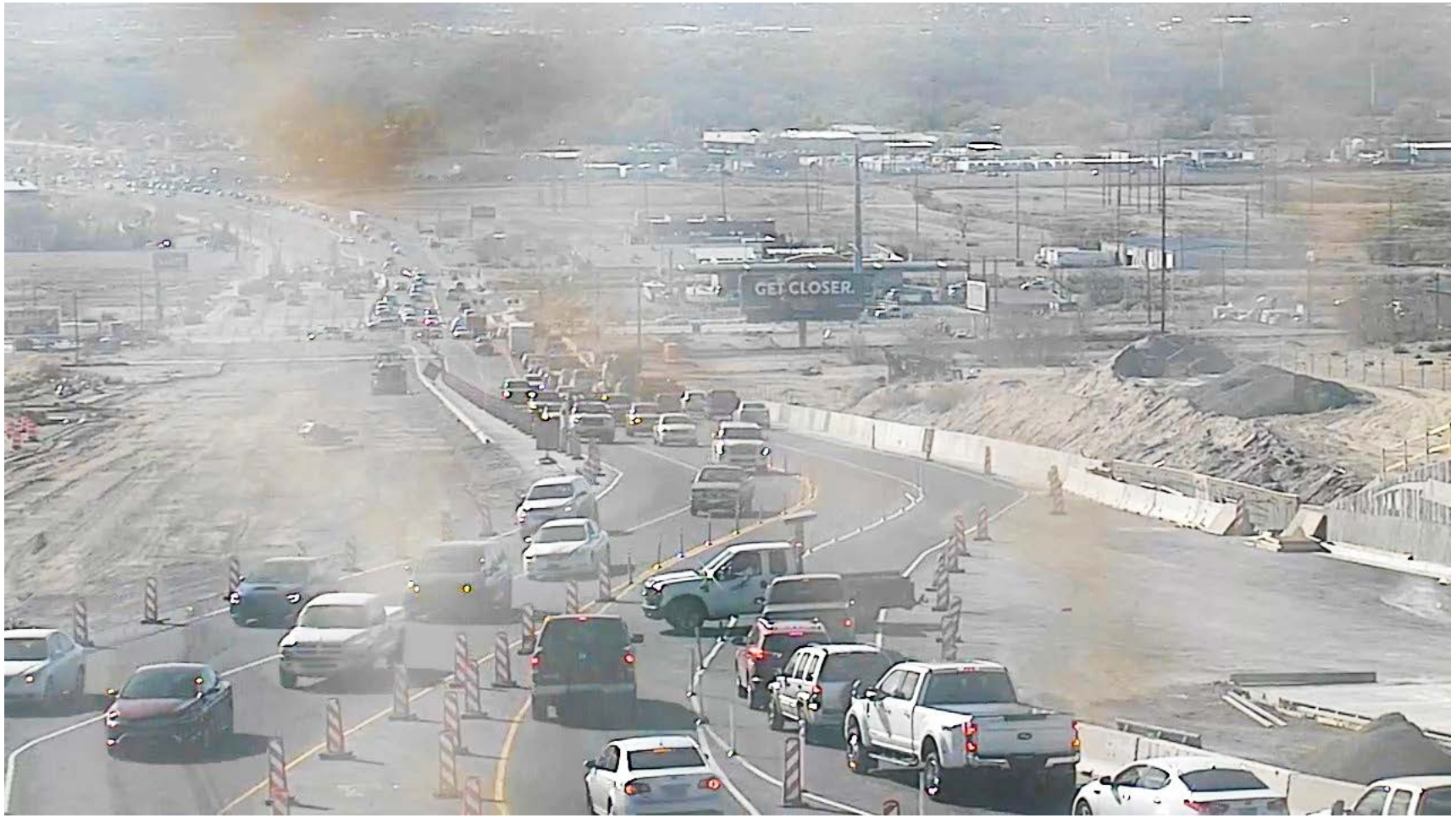
GET CLOSER

Lessons Learned

- Procurement Methods
  - Project Specifications
  - Construction Phase Services
- Contractor Motivations
- Communications are Essential
  - Active vs Passive FTP
- Value of ATSPMs are Increased with Accurate Detection

Questions

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