



J Street and Folsom Boulevard Lane Conversion Project (T15125400)
“Before” and “After” Traffic Evaluation

Prepared by Transportation Division

June 2014

Executive Summary

On February 12, 2013, the City of Sacramento approved the J Street and Folsom Boulevard Lane Conversion project (T15125400). In August of 2013, the lane conversions were implemented, changing the streets from four lanes to two lanes with a center two-way left turn lane.

This report has been prepared to provide travel data for the two roadways with emphasis on Average Daily Traffic (ADT) volumes, travel time and travel speed, for Folsom Boulevard and J Street within the project limits.

A summary of the report findings are as follows:

- The project provided the design features for a complete street that balances the needs of all roadway users.
- Overall public response has been positive for the changes on Folsom Boulevard although some feel that there is increased traffic congestion on J Street and Folsom Boulevard which may cause traffic diversion to other streets.
- Bicyclists, including Sacramento Area Bicycle Advocacy (SABA), raised concerns and requested bike lanes to be installed along J Street.
- Travel time on Folsom Boulevard (34th Street to 47th Street) and J Street (42nd Street to 56th Street) has decreased by 21% to 35% during the peak periods, except for J Street where travel time increased on the westbound direction by 16% during the AM peak period and 8% increase during the PM peak period.
- Average Traffic Volume increased by 2% on Folsom Boulevard and 6% on J Street therefore there were no significant changes on traffic patterns within the project area or redistribution of traffic to parallel streets.
- The 85th-percentile speed has declined by 3%-4% after the implementation of the project.
- There is not sufficient information to determine whether there has been a reduction in the number of crashes on J Street and Folsom Boulevard. It is expected that crash data for at least two to three years, after the implementation of the project, will be needed for proper evaluation.

Background information

In 2013 the City of Sacramento approved the J Street and Folsom Boulevard Lane Conversion project (T15125400). The project was an anticipated subsequent project identified in the 2030 General Plan Master EIR to reduce the number of through lanes from four to two travel lanes, with a center two-way left turn lane in conjunction with signal timing upgrade and adding side street detections on several intersections. The project limits are: Folsom Boulevard between 34th Street and 47th Street and J Street between 42nd Street and 56th Street.

The goals of this project were to provide for a complete street that balances the needs of all roadway users; and to improve safety, convenience, and quality of service for all modes of transportation.

As a part of the Mitigated Negative Declaration, the Department of Public Works (DPW), Transportation Division of City of Sacramento prepared a traffic impact study and analyzed the impacts of the project on study intersections, transit, pedestrian and bicycle facilities within the project vicinity. Travel time for the project roadway sections was measured in the field during the AM and PM peak periods.

The project was implemented in August, 2013 as a part of the annual street resurfacing program.

Figure 1 shows J Street (42nd Street to 56th Street) lane configuration before and after the project implementation. **Figure 2** shows Folsom Boulevard (34th Street to 47th Street) lane configuration before and after the project implementation.



J Street Before Project



J Street After Project

Figure 1. J Street – “Before” and “After” Project



Folsom Boulevard Before Project



Folsom Boulevard After Project

Figure 2. Folsom Boulevard – “Before” and “After” Project

Public Feedback

Following the implementation of the project, the City received several correspondences from the public about the project. Several supported the project while others raised complaints, requested changes, or did not support the lane conversions. The following is a summary of the feedback received about the project:

- Folsom Boulevard is working well and is safer for bicyclists and motorists.
- Motorist movements on Folsom Boulevard are easier after the project.
- Traffic congestion on Folsom Boulevard is causing traffic diversion to other streets such as M Street and T Street, causing congestion on those streets.
- Concerns that conversions did more harm than good and are not successful.
- Request to return to the original 4 lane roadway on Folsom Boulevard due to congestion on eastbound traffic in the area of Trader Joes.
- Multiple requests for bike lanes on J Street.
- Some thought cars were parking in the “new bike lanes” on J Street; these are new parking areas provided by the project.
- Some motorists are frustrated by the traffic congestion on J Street and were potentially diverting to H Street.
- Significant traffic congestion on eastbound J Street at the east end of the project.

The DPW monitored both Folsom Boulevard and J Street, primarily during the am and pm peak periods, for several weeks after implementation. As a result, changes were made to the traffic signal timing for two signals along J Street at 55th Street and 56th Street. With the changes, traffic congestion on the east end of the project was reduced. It was also observed that Folsom Boulevard operates well, when compared to the before project conditions, with minimal traffic congestion.

Traffic along M Street and H Street was also observed during the peak period. Based on observations, it does not appear that traffic is diverting to M Street and H Street to avoid congestion on J Street or Folsom Boulevard.

Finally, the section of parking along J Street is now being considered for conversion to bike lanes. It was observed during the monitoring period that the new parking along J Street is underutilized in some areas. This change will require further study, public outreach and City Council approval.

Travel Time

A floating vehicle survey was conducted during the AM and PM peak periods to measure the travel time along the Folsom Boulevard and J Street roadway segments before and after the implementation of the project.

Before the lane conversion project, travel time runs were completed in December 2011 over a two day period during AM and PM peak periods. Travel time for the After Project conditions was conducted in February and March 2014 over a four day period. J Street travel time study boundaries were adjusted to 40th Street to the east to account for the travel time from a signalized intersection to a signalized intersection.

Table 1 summarizes the “Before” and “After” travel time study results. See Appendices for the travel time reports.

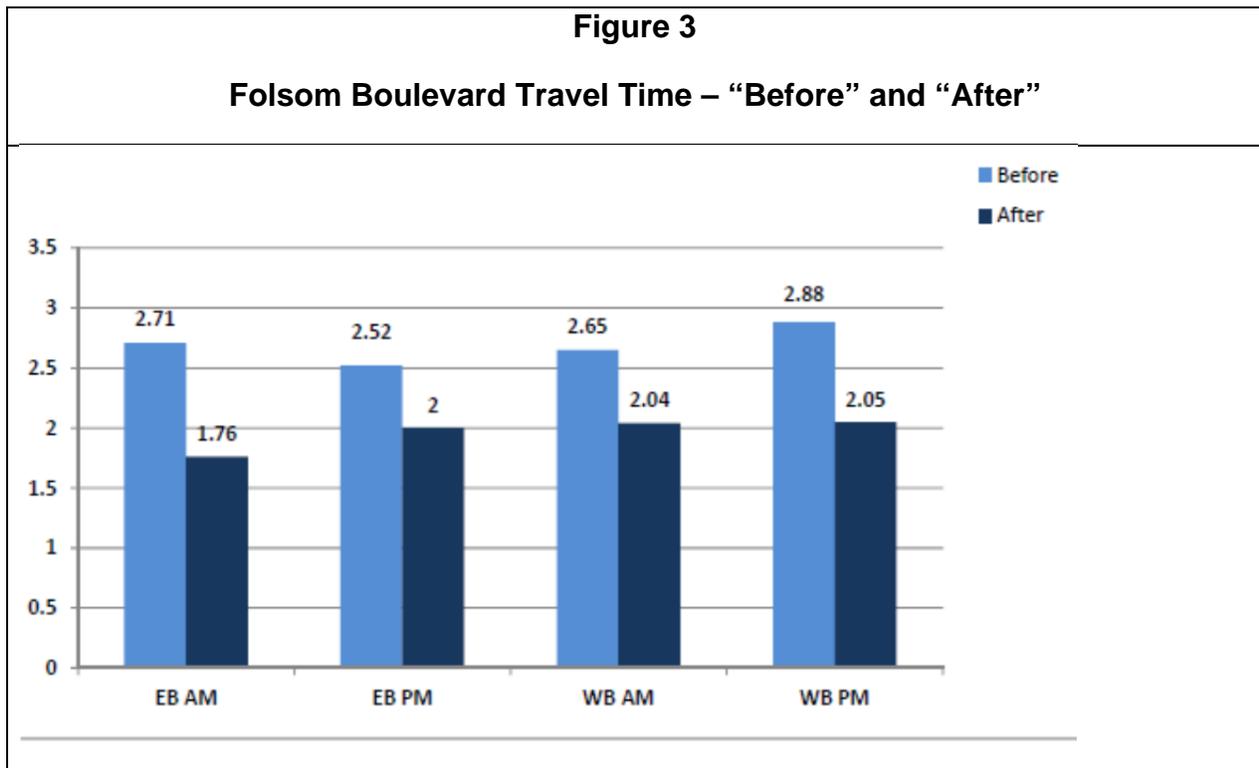
TABLE 1						
AVERAGE TRAVEL TIME – “BEFORE” AND “AFTER” LANE CONFIGURATION PROJECT						
Roadway Segment	BEFORE Travel Time (min)		AFTER Travel Time (min)		% CHANGE in Travel Time	
	AM	PM	AM	PM	AM	PM
Folsom Boulevard (34 th to 47 th Street) - Eastbound	2.71	2.52	1.76	2.0	-35%	-21%
Folsom Boulevard (34 th to 47 th Street) - Westbound	2.65	2.88	2.04	2.05	-23%	-29%
J Street (40 th to 56 th Street) – Eastbound	2.75	3.16	2.01	2.25	-27%	-29%
J Street (40 th to 56 th Street) – Westbound	2.02	2.37	2.35	2.57	+16%	+8%

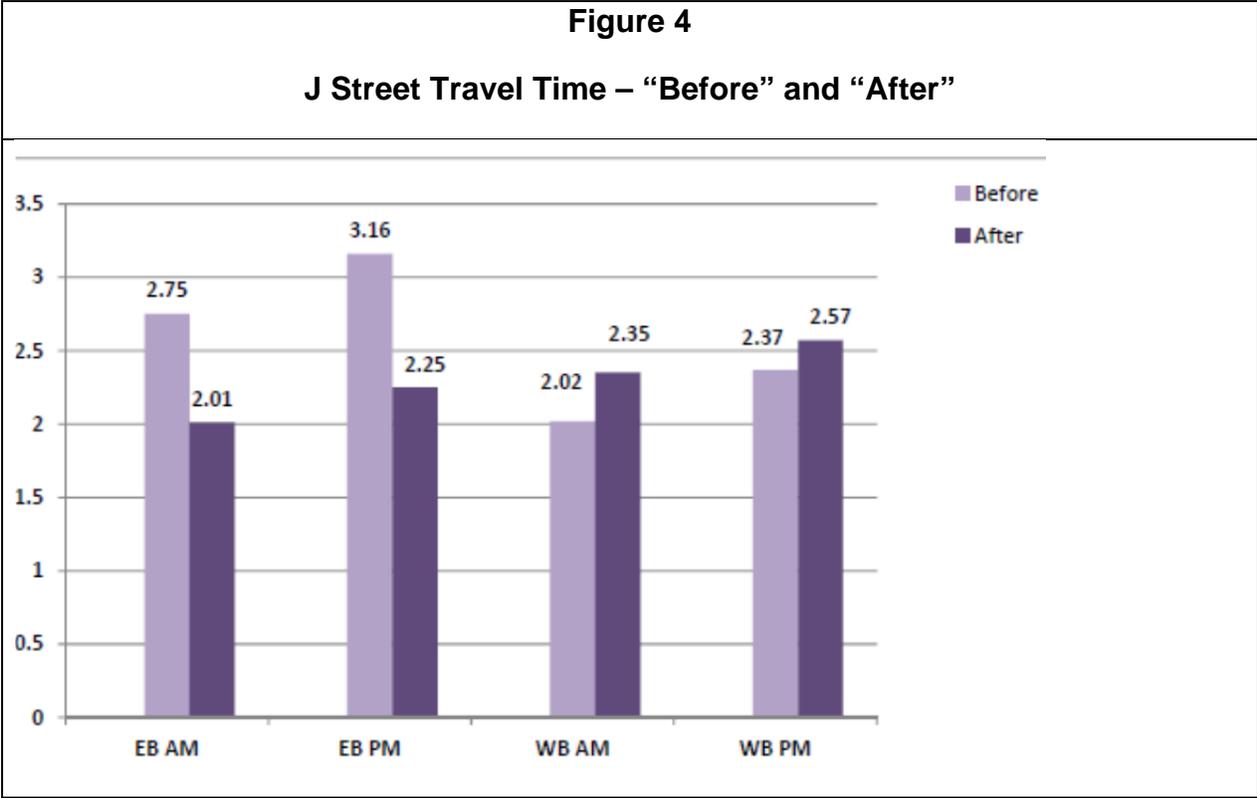
Notes: Average travel time reported in minutes.
Source: City of Sacramento Department of Public Works, Traffic Engineering Division, 2011 and 2014 travel time run results.

As shown on Table 1, travel time on Folsom Boulevard (between 34th Street and 47th Street) and J Street (between 40th Street and 56th Street) has decreased by 21% to 35% during the peak periods, except for J Street westbound direction where travel time is shown to be increased by 16% during the AM peak period and 8% during the PM peak period.

According to the information provided on Table 1, providing a center two-way left turn lane helped to improve the overall traffic operation along the roadway by providing a storage area where the left turner can wait for a traffic gap without blocking the through movements. The removal of left turns from through travel lanes has provided traffic flow improvement for the Folsom Boulevard segment in both directions and for the J Street segment in the eastbound direction.

Figure 3 and **Figure 4** depict the “Before” and “After” conditions (travel time in minutes) documented in Table 1 above.





Daily Traffic Volumes

Table 2 summarizes the “Before” and “After” daily traffic volumes (ADT). See Appendices for the ADT count data.

Table 2 shows that there was an overall increase in traffic on both Folsom Boulevard and J Street which in other words means that the project has not significantly changed the travel patterns on Folsom Boulevard (34th Street to 47th Street) and J Street (42nd Street to 56th Street) roadway sections and there was no redistribution of traffic to parallel streets. The daily traffic volume increase of 2 to 6%, as shown in Table 2, is consistent with the overall traffic volume increase patterns for a three year period.

TABLE 2				
AVERAGE DAILY TRAFFIC VOLUMES – “BEFORE” AND “AFTER” CONDITIONS				
Roadway Segment	BEFORE Daily Traffic Volume (ADT)	AFTER Daily Traffic Volume (ADT)	CHANGE in ADT	% CHANGE in ADT
Folsom Boulevard (34 th to 47 th Street) - Eastbound	7,461	7,493	32	+1%
Folsom Boulevard (34 th to 47 th Street) - Westbound	7,525	7,724	199	+3%
Total (Eastbound and Westbound)	14,986	15,217	231	+2%
J Street (40 th to 56 th Street) – Eastbound	7,238	7,914	676	+9%
J Street (40 th to 56 th Street) – Westbound	5,807	5,888	81	+1%
Total (Eastbound and Westbound)	13,045	13,802	757	+6%

Source: City of Sacramento Department of Public Works, Traffic Engineering Division, 2010; 2011, and 2014 traffic counts.

Travel Speeds

As a part of the City’s speed survey program, the City is required to reevaluate speed limits on segments of the roadways that have undergone a significant change in roadway characteristics or surrounding land uses. In order to ensure compliance with these requirements, speed surveys have been performed for Folsom Boulevard and J Street roadway sections (amongst a list of other street sections) to identify the need to change the speed limits or reestablish the existing speed limits on speed zones. Currently, the posted speed limit along Folsom Boulevard and J Street is 35 mph.

Table 3 summarizes the “Before” and “After” 85th-percentile speed on Folsom Boulevard and J Street sections.

The speed survey results indicate that the 85th-percentile speed along Folsom Boulevard decreased by 3% while the 85th-percentile speed along J Street section decreased by 4% after the implementation of the project.

TABLE 3				
85TH PERCENTILE SPEED – “BEFORE” AND “AFTER” CONDITIONS				
Roadway Segment	BEFORE 85th Percentile Speed (mph)	AFTER 85th Percentile Speed(mph)	CHANGE in Speed (mph)	% CHANGE in Speed
Folsom Boulevard (34 th to 47 th Street)	36.0 mph	34.9 mph	-1.1 mph	-3%
J Street (40 th to 56 th Street)	37.1 mph	35.7 mph	-1.4 mph	-4%

Source: City of Sacramento Department of Public Works, Traffic Engineering Division, 2010; 2012, and 2014 speed surveys.

Collisions

According to the National Research published in the Highway Safety Manual on November 2011, the conversion of a four lane undivided road to a three lane road has been shown to reduce the number of crashes by approximately 29%.

The project was implemented in August 2013 which is less than one year from the preparation of this report; therefore, there is not sufficient data available to evaluate the change in the number of crashes on J Street and Folsom Boulevard in the period before and after the project. It is expected that crash data for at least two to three years, after the implementation of the project, will be needed for proper evaluation.

Conclusions

This evaluation provides the following results:

- The project provided the design features for a complete street that balances the needs of all roadway users.
- Access from unsignalized side streets and driveways has improved by traffic having to cross only one travel lane on the main street and providing fewer turning conflicts.
- Convenience to pedestrians and bicyclists has improved due to the reduction of the number of lanes and potential conflicts.
- Overall public response has been positive for the changes on Folsom Boulevard. There are concerns about increased congestion on J Street and Folsom Boulevard and possible traffic diversion to other streets. Bicyclists, including Sacramento Area Bicycle Advocacy (SABA), raised concerns and requested bike lanes to be installed along J Street.
- Travel time on Folsom Boulevard (34th Street to 47th Street) and J Street (42nd Street to 56th Street) has decreased by 21% to 35% during the peak periods, except for J Street where travel time increased on the westbound direction by 16% during the AM peak period and 8% increase during the PM peak period.
- Average Traffic Volume increased by 2% on Folsom Boulevard and 6% on J Street. This data supports that there were no significant changes on traffic patterns within the project area or redistribution of traffic to parallel streets.
- The 85th-percentile speed has declined by 3%-4% after the implementation of the project.
- There is not sufficient information to determine whether there has been a reduction in the number of crashes on Folsom Boulevard and J Street. It is expected that crash data for at least two to three years, after the implementation of the project, will be needed for proper evaluation.

J Street and Folsom Boulevard Lane Conversion Project (T15125400)

“Before” and “After” Traffic Evaluation

Appendices

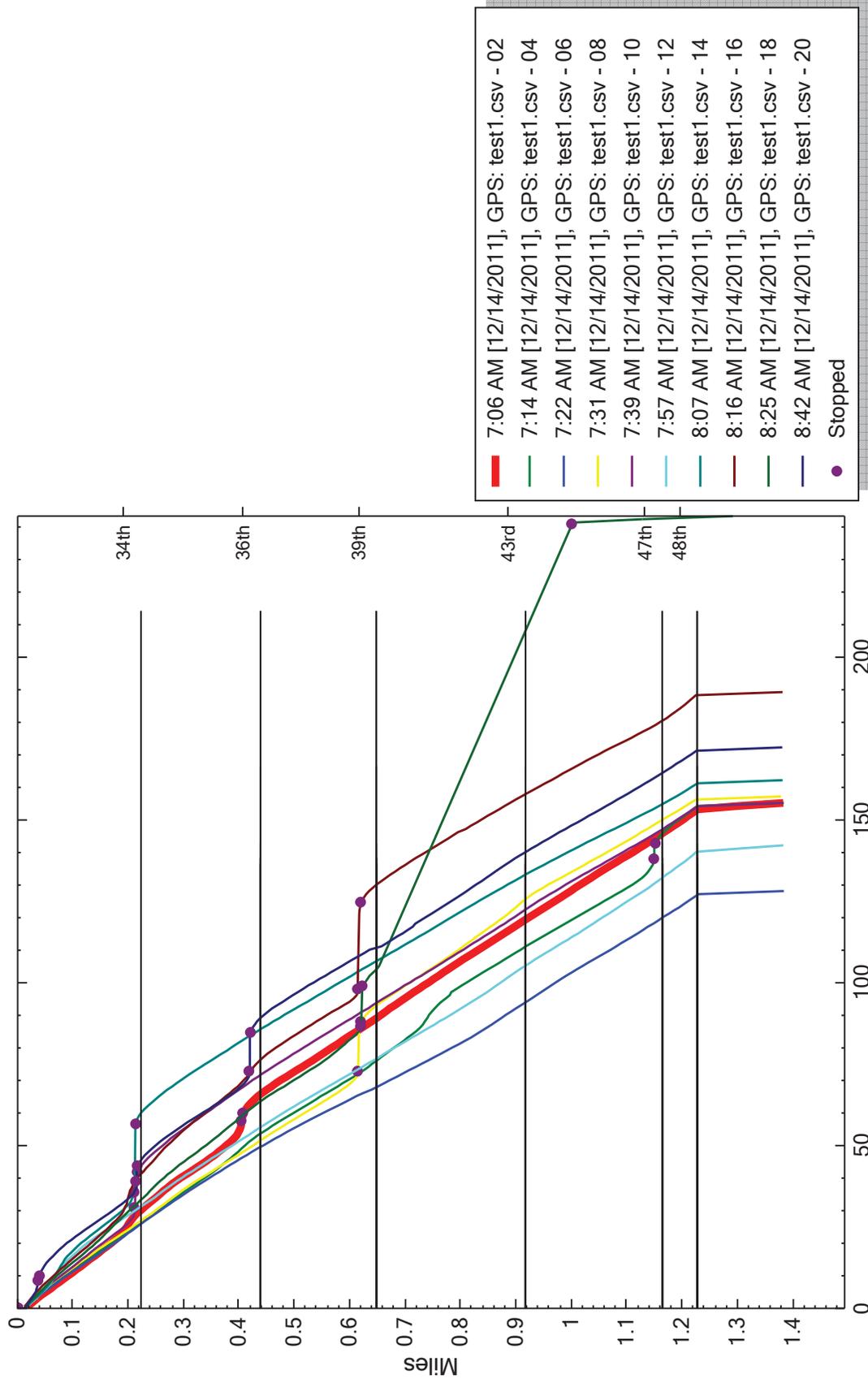
Scenario	Time Period	Route	Checkpoint	# Runs	Avg Dist	Avg Speed	Avg Tr Time	LOS
J Street	AM Peak	40st-56th	43rd	9	0.18	24.08	0.45	B
J Street	AM Peak	40st-56th	47th	9	0.25	18.63	0.8	C
J Street	AM Peak	40st-56th	48th	9	0.08	29.78	0.16	B
J Street	AM Peak	40st-56th	51st	9	0.11	17.92	0.37	D
J Street	AM Peak	40st-56th	Rodeo	9	0.11	26.58	0.25	B
J Street	AM Peak	40st-56th	55th	9	0.22	37.05	0.36	A
J Street	AM Peak	40st-56th	56th	9	0.06	9.92	0.36	F
J Street	AM Peak	40st-56th	(Route End)					
					1.01	23.42	2.75	
J Street	AM Peak	56th-40st	56th					
J Street	AM Peak	56th-40st	55th	9	0.06	20.99	0.17	C
J Street	AM Peak	56th-40st	Rodeo	9	0.22	25.66	0.51	B
J Street	AM Peak	56th-40st	51st	9	0.11	28.58	0.23	B
J Street	AM Peak	56th-40st	48th	9	0.11	32.2	0.2	A
J Street	AM Peak	56th-40st	47th	9	0.08	29.98	0.16	B
J Street	AM Peak	56th-40st	43rd	9	0.25	35.5	0.42	A
J Street	AM Peak	56th-40st	(Route End)	9	0.18	32.66	0.33	A
					1.01	29.37	2.02	
J Street	PM Peak	40st-56th	43rd	7	0.18	22.3	0.48	C
J Street	PM Peak	40st-56th	47th	7	0.25	19.23	0.78	C
J Street	PM Peak	40st-56th	48th	7	0.08	25.35	0.19	B
J Street	PM Peak	40st-56th	51st	7	0.11	11.74	0.56	E
J Street	PM Peak	40st-56th	Rodeo	7	0.11	27.95	0.24	B
J Street	PM Peak	40st-56th	55th	7	0.22	26.07	0.51	B
J Street	PM Peak	40st-56th	56th	7	0.06	9.11	0.4	F
J Street	PM Peak	40st-56th	(Route End)					
					1.01	20.25	3.16	
J Street	PM Peak	56th-40st	56th					
J Street	PM Peak	56th-40st	55th	7	0.06	21.19	0.17	C
J Street	PM Peak	56th-40st	Rodeo	7	0.22	23.4	0.56	C
J Street	PM Peak	56th-40st	51st	7	0.11	26.76	0.25	B
J Street	PM Peak	56th-40st	48th	7	0.11	29.34	0.22	B
J Street	PM Peak	56th-40st	47th	7	0.08	29.54	0.16	B
J Street	PM Peak	56th-40st	43rd	7	0.25	32.29	0.46	A
J Street	PM Peak	56th-40st	(Route End)	7	0.18	19.52	0.55	C
					1.01	26	2.37	

Scenario	Time Period	Route	Checkpoint	# Runs	Distance	Avg Speed	Avg Travel Time	LOS
Folsom B	AM Peak	47th - 34th	47th					
Folsom B	AM Peak	47th - 34th	43rd	11	0.25	30.2	0.5	A
Folsom B	AM Peak	47th - 34th	39th	11	0.27	27.57	0.59	B
Folsom B	AM Peak	47th - 34th	36th	11	0.21	31.28	0.4	A
Folsom B	AM Peak	47th - 34th	34th	11	0.22	30.03	0.44	A
Folsom B	AM Peak	47th - 34th	(Route End)	11	0.22	18.27	0.72	C
					1.17	27.47	2.65	
Folsom B	AM Peak	34th-47th	34th	10	0.22	21.02	0.63	C
Folsom B	AM Peak	34th-47th	36th	10	0.22	26.3	0.5	B
Folsom B	AM Peak	34th-47th	39th	10	0.21	26.6	0.47	B
Folsom B	AM Peak	34th-47th	43rd	10	0.27	32.96	0.49	A
Folsom B	AM Peak	34th-47th	47th	10	0.25	24.37	0.62	B
					1.17	26.25	2.71	
Folsom B	PM Peak	47th - 34th	47th					
Folsom B	PM Peak	47th - 34th	43rd	9	0.25	35.88	0.42	A
Folsom B	PM Peak	47th - 34th	39th	9	0.27	28.85	0.56	B
Folsom B	PM Peak	47th - 34th	36th	9	0.21	29.7	0.42	B
Folsom B	PM Peak	47th - 34th	34th	9	0.22	23.49	0.56	C
Folsom B	PM Peak	47th - 34th	(Route End)	9	0.22	14.35	0.92	D
					1.17	26.45	2.88	
Folsom B	PM Peak	34th-47th	34th	8	0.22	21.11	0.63	C
Folsom B	PM Peak	34th-47th	36th	8	0.22	24.4	0.54	B
Folsom B	PM Peak	34th-47th	39th	8	0.21	29.82	0.42	B
Folsom B	PM Peak	34th-47th	43rd	8	0.27	32.59	0.5	A
Folsom B	PM Peak	34th-47th	47th	8	0.25	34.62	0.43	A
					1.17	28.51	2.52	

City of Sacramento

Space/Time Trajectories - Alhambra-49th

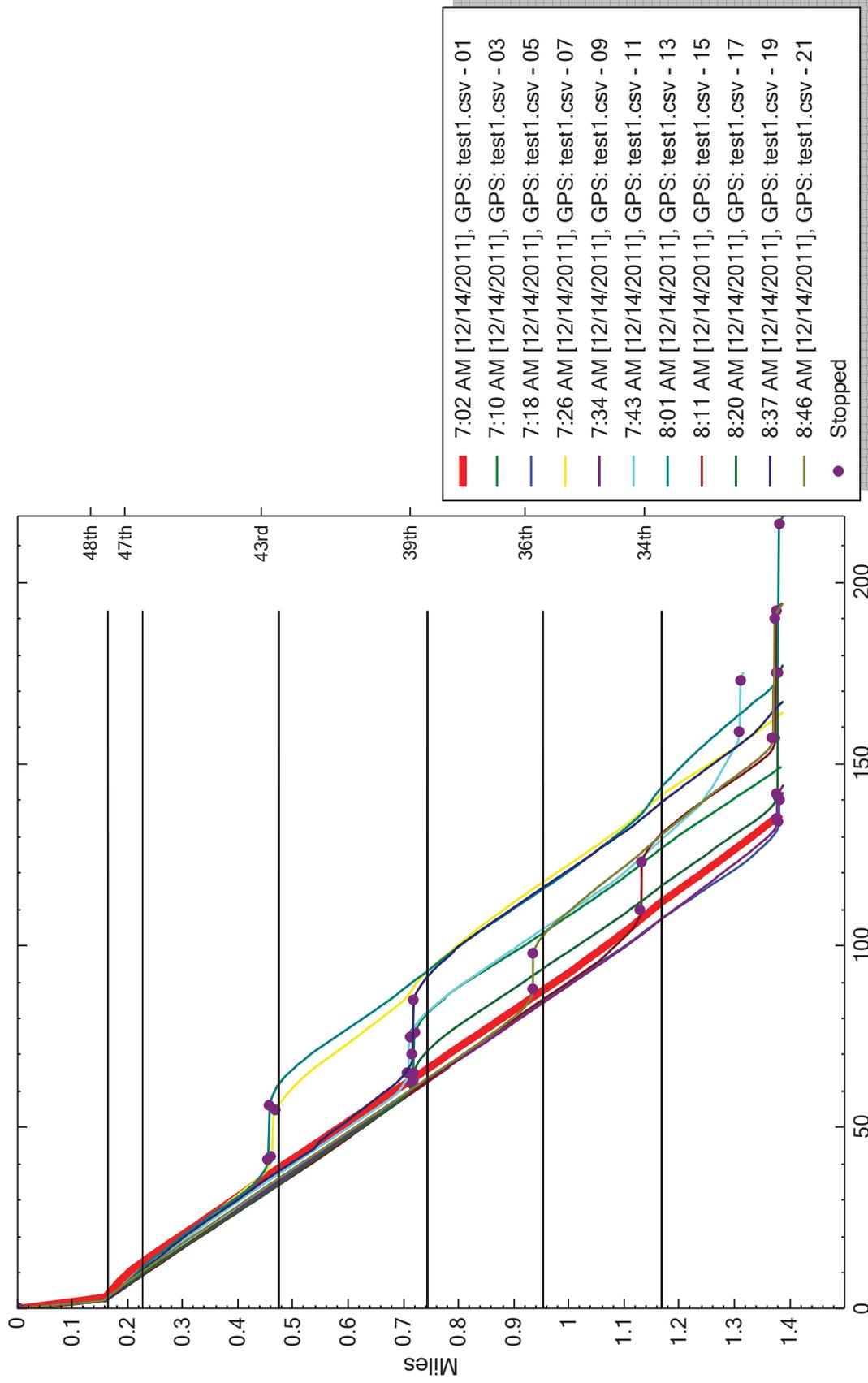
Folsom Blvd Travel Times



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Space/Time Trajectories - 49th - Alhambra

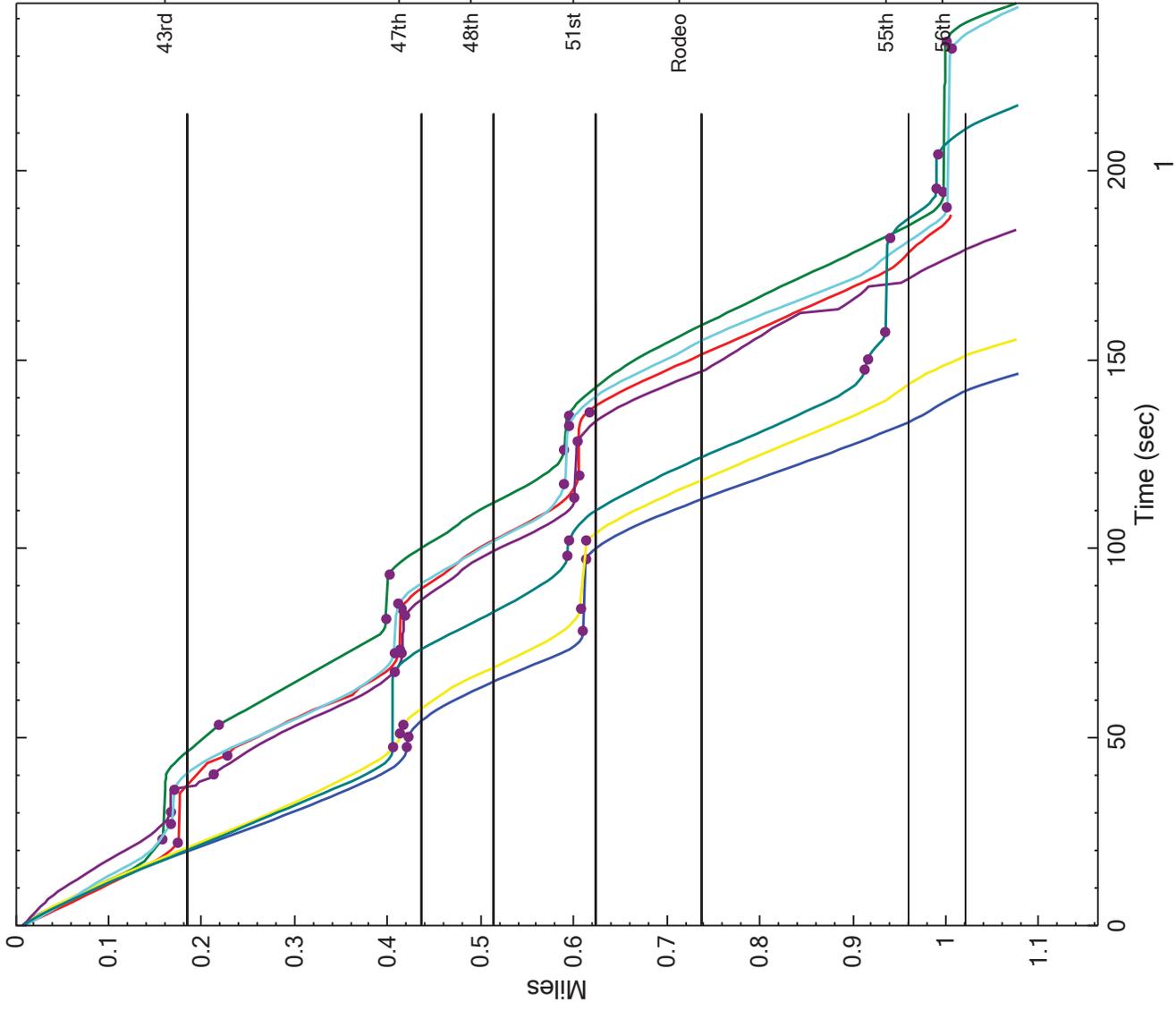
Folsom Blvd Travel Times



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Space/Time Trajectories - 41st-56th

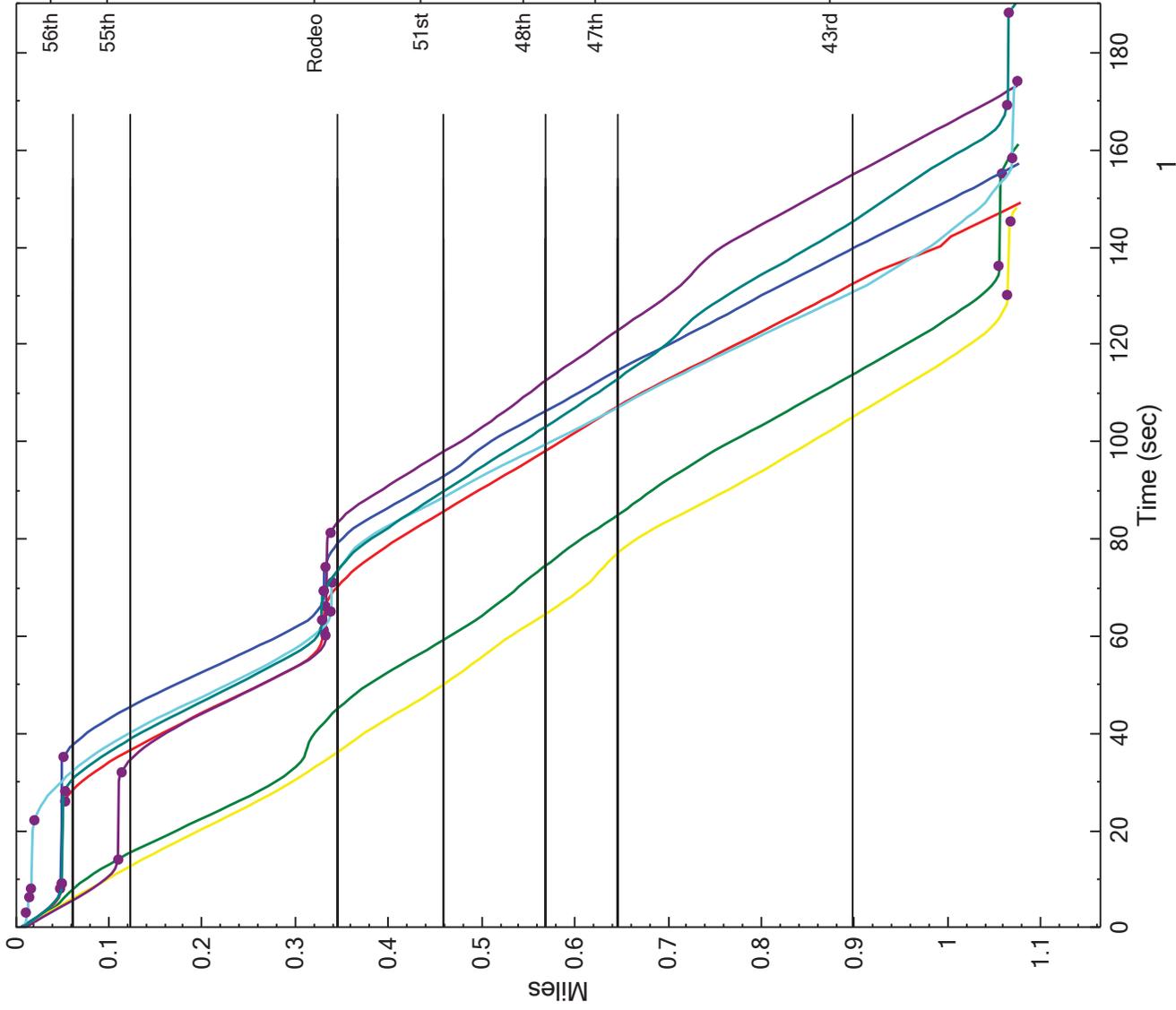
J St Travel Times



City of Sacramento

Space/Time Trajectories - 56th-41st

J St Travel Times



J ST & FOLSOM BLVD (7-9AM) TRAFFIC OBSERVATIONS. 2/25/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
EB J @ Alhambra-	33 rd St,	36 th St,	39 th St,	40 th St,	43 rd St,	47 th St,	48 th St,	51 st St,	Rodeo,	55 th St,	56 th St,	Through 56 th
6:52AM						(2.31/40 th -56 th)			S			4.05 MINUTES
7:13AM						(1.43/40 th -56 th)			(1.85)			3.33 MINUTES
7:37AM	S	S				(1.59/40 th -56 th)						3.38 MINUTES
8:00AM	S					(2.09/40 th -56 th)				S		4.03 MINUTES
8:25AM							S		(2.09/40 th -56 th)			3.49 MINUTES
8:48AM		S				(2.06/40 th -56 th)		S				3.59 MINUTES
Parking on J Street AT 43RD- 1 vehicle / 53RD - 1 vehicle (black prius)												

WB IST @ 56 th	55 th St,	Rodeo,	51 st St,	48 th St,	47 th St,	43 rd St,	40 th St,	39 th St,	36 th St,	33 rd St,	Alhambra	Through Alhambra
6:57AM	S			(2.02/56 th -40 th)	S	S					S	4.33 MINUTES
7:20AM				(2.37/56 th -40 th)								4.17 MINUTES
7:42AM				(2.04/56 th -40 th)							S	4.27 MINUTES
8:06AM			(3.30/56 th -40 th)	S		S					S	6.26 MINUTES
8:31AM	S			(2.22/56 th -40 th)							S	5.16 MINUTES
8:55AM				(1.58/56 th -40 th)							S	3.45 MINUTES

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SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
E/B Folsom @ Alhambra,	34 th St,	36 th St,	39 th St,	43rd St,	47 th St,	51 st St,	55 th St,	56 th St,			Through 56 th St	
7:03AM					(1.37/34 th -47 th)				S			3.09 MINUTES
7:25AM	S				(1.39/34 th -47 th)				(1.57)	S		3.42 MINUTES
7:48AM			S		(2.07/34 th -47 th)	S						4.18 MINUTES
8:14AM			S		(1.51/34 th -47 th)					S		3.35 MINUTES
8:38AM	S				(1.53/34 th -47 th)							4.06 MINUTES

WB Folsom @ 56 th St,	55 th St,	51 st St,	47 th St,	43 rd St,	39 th St,	36 th St,	34 th St,	Alhambra			Through Alhambra
7:08AM		S	S				S	(2.12/47 th -34 th)			4.26 MINUTES
7:31AM			S				(1.46/47 th -34 th)				3.48 MINUTES
7:53AM			S				(2.28/47 th -34 th)	S	S	(1.97)	4.47 MINUTES
8:20AM							(2.22/47 th -34 th)	S			4.06 MINUTES
8:43AM	S		S				S	(1.53/47 th -34 th)	S		4.28 MINUTES

J ST & FOLSOM BLVD (7-9AM) TRAFFIC OBSERVATIONS. 2/27/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.	TIME TAKEN
EB J @ Alhambra- 33 rd St, 36 th St, 39 th St, 40 th St, 43 rd St, 47 th St, 48 th St, 51 st St, Rodeo, 55 th St, 56 th St, Through 56 th		
7:13AM	S (2.15 40 TH -56 TH)	4.19 MINUTES
7:47AM	(2.36 40 TH -56 TH) (2.19) S S	4.10 MINUTES
8:31AM	(2.06 40 TH -56 TH)	3.38 MINUTES

WB JST @ 56TH 55 th St, Rodeo, 51 st St, 48 th St, 47 th St, 43 rd St, 40 th St, 39 th St, 36 th St, 33 rd St, Alhambra Through Alhambra		
7:20AM	S S (3.06 40 TH -56 TH) S S S	5.12 MINUTES
7:53AM	(2.50 40 TH -56 TH) S S (2.68) S,S	7.30 MINUTES
8:36AM	(2.50 40 TH -56 TH) S S S S	4.38 MINUTES

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.	TIME TAKEN
E/B Folsom @ Alhambra, 34 th St, 36 th St, 39 th St, 43 rd St, 47 th St, 51 st St, 55 th St, 56 th St, Through 56 th St		
7:27AM	(1.56 34 TH - 47 TH) S	3.53 MINUTES
8:02AM	(2.12 34 TH - 47 TH) S (1.91)	4.07 MINUTES
8:41AM	(2.06 34 TH -47 TH) S	3.36 MINUTES

WB Folsom @ 56TH St, 55 th St, 51 st St, 47 th St, 43 rd St, 39 th St, 36 th St, 34 th St, Alhambra Through Alhambra		
7:40AM	(2.07 34 TH - 47 TH) S S	4.06 MINUTES
8:12AM	(2.11 34 TH -47 TH) S (2.10)	4.08 MINUTES
8:51AM	S S S S	4.47 MINUTES
	(2.14 34 TH -47 TH)	

J ST & FOLSOM BLVD (7-9AM) TRAFFIC OBSERVATIONS. 3/6/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.	TIME TAKEN
EB J @ Alhambra- 33 rd St, 36 th St, 39 th St, 40 th St, 43 rd St, 47 th St, 48 th St, 51 st St, Rodeo, 55 th St, 56 th St, Through 56 th		
7:14AM	(1.57/40 th -56 th)	3.18 MINUTES
7:39AM	(2.22/40 th -56 th) (1.94)	S 3.53 MINUTES
8:17AM	S (2.11/40 th -56 th)	3.52 MINUTES

WB JST @ 56 th St, 55 th St, Rodeo, 51 st St, 48 th St, 47 th St, 43 rd St, 40 th St, 39 th St, 36 th St, 33 rd St, Alhambra Through Alhambra	SIGNALIZED INTERSECTION- CONGESTION OR NOT.	TIME TAKEN
7:19AM	(2.58/56 th -40 th) S S S	S,S 5.48 MINUTES
7:46AM	S (2.20/56 th -40 th) (2.32) S (2.97)	S 5.50 MINUTES
8:23AM	(2.19/56 th -40 th) S	S,S 5.29 MINUTES

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.	TIME TAKEN
E/B Folsom @ Alhambra, 34 th St, 36 th St, 39 th St, 43 rd St, 47 th St, 51 st St, 55 th St, 56 th St, Through 56 th St		
7:01AM	(1.58/34 th -47 th) S	3.25 MINUTES
7:28AM	S (2.03/34 th -47 th) S (1.95)	3.56 MINUTES
7:55AM	S (2.03/34 th -47 th)	3.59 MINUTES
8:49AM	S (2.17/34 th -47 th) S	4.04 MINUTES

WB Folsom @ 56 th St, 55 th St, 51 st St, 47 th St, 43 rd St, 39 th St, 36 th St, 34 th St, Alhambra Through Alhambra	SIGNALIZED INTERSECTION- CONGESTION OR NOT.	TIME TAKEN
7:08AM	(2.01/47 th -34 th) S	3.40 MINUTES
7:33AM	(1.42/47 th -34 th) (2.09)	S 3.32 MINUTES
8:08AM	(2.46/47 th -34 th) S S S	5.19 MINUTES
8:55AM	(2.47/47 th -34 th) S S S	4.41 MINUTES

J ST & FOLSOM BLVD (7-9AM) TRAFFIC OBSERVATIONS. 03/06/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
EB J @ Alhambra-	33 rd St,	36 th St,	39 th St,	40 th St,	43 rd St,	47 th St,	48 th St,	51 st St,	Rodeo,	55 th St,	56 th St,	Through 56 th
6:55AM				(1.57/40 th -56 th)								3.30 MINUTES
7:20AM	S	S1	S	(2.31/40 th -56 th)					S1			4.55 MINUTES
7:51AM			S	(2.33/40 th -56 th)					S1			4.22 MINUTES
8:18AM				(2.04/40 th -56 th)								3.56 MINUTES
8:44AM				(2.01/40 th -56 th)					S1			3.57 MINUTES
Parking on J Street AT 43RD- 1 vehicle / 53RD - 1 vehicle (black prius)												

WB JST @ 56 TH	55 th St,	Rodeo,	51 st St,	48 th St,	47 th St,	43 rd St,	40 th St,	39 th St,	36 th St,	33 rd St,	Alhambra	Through Alhambra
7:00AM				(2.20/56 th -40 th)			S					4.05 MINUTES
7:28AM	S1	S1		(2.37/56 th -40 th)					S			5.10 MINUTES
7:58AM				(2.02/56 th -40 th)				S				5.26 MINUTES
8:24AM				(2.07/56 th -40 th)			S					5.04 MINUTES
8:50AM		S1		(2.17/56 th -40 th)				S				5.08 MINUTES

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
E/B Folsom @ Alhambra,	34 th St,	36 th St,	39 th St,	43 rd St,	47 th St,	51 st St,	55 th St,	56 th St,				Through 56 th St
7:07AM	S			(1.56/34 th -47 th)								3.38 MINUTES
7:36AM				S	(2.20/34 th -47 th)	S	S					4.19 MINUTES
8:06AM					(1.46/34 th -47 th)							3.24 MINUTES
8:30AM	S			(1.45/34 th -47 th)		S						3.40 MINUTES
8:57AM				(1.50/34 th -47 th)		S						3.50 MINUTES

WB Folsom @ 56 TH St,	55 th St,	51 st St,	47 th St,	43 rd St,	39 th St,	36 th St,	34 th St,	Alhambra				Through Alhambra
7:12AM			S1	(2.01/47 th -34 th)		S	S					3.56 MINUTES
7:42AM				(2.30/47 th -34 th)		S						4.32 MINUTES
8:11AM				(2.00/47 th -34 th)		S						4.02 MINUTES
8:36AM	S		S1	(2.09/47 th -34 th)		S						4.19 MINUTES
9:03AM			S1	(2.00/47 th -34 th)								4.00 MINUTES

S1 – Stopped for no reason (no pedestrians or vehicles)

J ST & FOLSOM BLVD (4-6PM) TRAFFIC OBSERVATIONS. 2/25/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN
EB J @ Alhambra- 33 rd St, 36 th St, 39 th St, 40 th St, 43 rd St, 47 th St, 48 th St, 51 st St, Rodeo, 55 th St, 56 th St, Through 56 th											
3:58PM										S	4.47 MINUTES
4:24PM		S									3.40 MINUTES
4:49PM		S	S						S	(2.19)	4.53 MINUTES
5:19PM										S	4.42 MINUTES
5:48PM	S										4.06 MINUTES

Parking on J Street: $40^{TH}-47^{TH} = 0 / 47^{TH} - 51^{ST} = 6$ VEHICLES / $51^{ST}-56^{TH} = 1$ VEHICLE (black prius)

2.19 ✓

WB JST @ 56 TH 55 th St, Rodeo, 51 st St, 48 th St, 47 th St, 43 rd St, 40 th St, 39 th St, 36 th St, 33 rd St, Alhambra Through Alhambra											
4:06PM		S							S		5.36 MINUTES
4:30PM	S		S						S	(2.42)	6.01 MINUTES
4:57PM	S		S						S	S	6.00 MINUTES
5:28PM		S	(3.28/56 TH -40 TH)	S	S	S			S	S	6.46 MINUTES

2.63

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN
E/B Folsom @ Alhambra, 34 th St, 36 th St, 39 th St, 43 rd St, 47 th St, 51 st St, 55 th St, 56 th St, Through 56 th St											
4:14PM		S							S		4.16 MINUTES
4:37PM									S	(2.05)	3.56 MINUTES
5:04PM	S	S							S		7.04 MINUTES
5:35PM									S		5.08 MINUTES

✓

WB Folsom @ 56 TH St, 55 th St, 51 st St, 47 th St, 43 rd St, 39 th St, 36 th St, 34 th St, Alhambra Through Alhambra											
4:19PM	S										4.02 MINUTES
4:43PM		S							S	(2.03)	4.49 MINUTES
5:12PM									S		4.49 MINUTES
5:42PM	S								S	S	4.46 MINUTES

✓

J ST & FOLSOM BLVD (4-6PM) TRAFFIC OBSERVATIONS. 2/27/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
EB J @ Alhambra-	33 rd St,	36 th St,	39 th St,	40 th St,	43 rd St,	47 th St,	48 th St,	51 st St,	Rodeo,	55 th St,	56 th St,	Through 56 th
4:12PM					S (2.03 40 TH -56 TH)							4.04 MINUTES
4:47PM					S (3.15 40 TH -56 TH)		(2.45)		S			5.40 MINUTES
5:13PM					(2.11 40 TH -56 TH)							3.39 MINUTES
5:44PM					(2.53 40 TH -56 TH)				S	S		4.34 MINUTES

WB JST @ 56TH	55 th St,	Rodeo,	51 st St,	48 th St,	47 th St,	43 rd St,	40 th St,	39 th St,	36 th St,	33 rd St,	Alhambra	Through Alhambra
4:17PM		S			(2.09 40 TH -56 TH)		S					4.18 MINUTES
4:55PM		S			(2.22 40 TH -56 TH)				(2.57)		S	5.20 MINUTES
5:19PM		S			(2.50 40 TH -56 TH)		S				S	6.51 MINUTES
5:53PM					S (3.30 40 TH -56 TH)				S	S		5.15 MINUTES

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
E/B Folsom @ Alhambra,	34 th St,	36 th St,	39 th St,	43 rd St,	47 th St,	51 st St,	55 th St,	56 th St,				Through 56 th St
3:58PM					(1.37 34 TH - 47 TH)	S			S			4.04 MINUTES
4:25PM		S			S (2.06 34 TH - 47 TH)	S					(1.97)	4.57 MINUTES
5:01PM					(2.22 34 TH -47 TH)	S			S			4.23 MINUTES
5:27PM					S (2.24 34 TH -47 TH)		S					4.50 MINUTES

WB Folsom @ 56TH St,	55 th St,	51 st St,	47 th St,	43 rd St,	39 th St,	36 th St,	34 th St,	Alhambra				Through Alhambra
4:06PM					(2.11 34 TH - 47 TH)		S					4.08 MINUTES
4:41PM					(1.41 34 TH -47 TH)						(1.97)	3.30 MINUTES
5:07PM					(2.40 34 TH -47 TH)			S	S			4.25 MINUTES
5:34PM		S			(*** 34 TH -47 TH)	S			S			5.10 MINUTES

J ST & FOLSOM BLVD (4-6PM) TRAFFIC OBSERVATIONS. 3/05/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
EB J @ Alhambra-	33 rd St,	36 th St,	39 th St,	40 th St,	43 rd St,	47 th St,	48 th St,	51 st St,	Rodeo,	55 th St,	56 th St,	Through 56 th
3:55PM					(2.02 40 TH -56 TH)							3.48 MINUTES
4:20PM					(1.58 40 TH -56 TH)							3.40 MINUTES
4:44PM					(2.29 40 TH -56 TH)						S	4.11 MINUTES
5:23PM					(2.13 40 TH -56 TH)					S		5.08 MINUTES

WB JST @ 56 TH	55 th St,	Rodeo,	51 st St,	48 th St,	47 th St,	43 rd St,	40 th St,	39 th St,	36 th St,	33 rd St,	Alhambra	Through Alhambra	
4:01PM						(2.37 40 TH -56 TH)			S	S	S	S	6.23 MINUTES
4:25PM	S		S			(2.50 40 TH -56 TH)		S			S	4.55 MINUTES	
4:50PM		S				(2.59 40 TH -56 TH)	S				S	5.24 MINUTES	
5:31PM						(2.53 40 TH -56 TH)	S			S	S	5.56 MINUTES	

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
E/B Folsom @ Alhambra,	34 th St,	36 th St,	39 th St,	43 rd St,	47 th St,	51 st St,	55 th St,	56 th St,				Through 56 th St
4:09PM						(1.41 34 TH - 47 TH)				S		3.37 MINUTES
4:31PM						(2.14 34 TH - 47 TH)		S				4.32 MINUTES
4:58PM						(2.26 34 TH -47 TH)	S	S				4.42 MINUTES
5:40PM						(2.08 34 TH -47 TH)		S			S	5.57 MINUTES

WB Folsom @ 56 TH St,	55 th St,	51 st St,	47 th St,	43 rd St,	39 th St,	36 th St,	34 th St,	Alhambra				Through Alhambra
4:14PM						(2.01 34 TH - 47 TH)				S		4.34 MINUTES
4:37PM						(1.56 34 TH -47 TH)						3.48 MINUTES
5:14PM	S		S			(2.17 34 TH -47 TH)		S			S	6.08 MINUTES
5:48PM		S				(2.29 34 TH -47 TH)				S		4.24 MINUTES

J ST & FOLSOM BLVD (4-6PM) TRAFFIC OBSERVATIONS. 3/6/2014

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN	
EB J @ Alhambra-	33 rd St,	36 th St,	39 th St,	40 th St,	43 rd St,	47 th St,	48 th St,	51 st St,	Rodeo,	55 th St,	56 th St,	Through 56 th
3:54PM					(2.12/40 TH -56 TH)							4.18 MINUTES
4:24PM					(2.27/40 TH -56 TH)	S						3.59 MINUTES
4:55PM					(2.14/40 TH -56 TH)						(2.39)	4.03 MINUTES
5:26PM			S*		(3.03/40 TH -56 TH)					S		5.49 MINUTES

*Stopped @Santa Yanez for the signal on 39th (red)

WB JST @ 56 TH	55 th St,	Rodeo,	51 st St,	48 th St,	47 th St,	43 rd St,	40 th St,	39 th St,	36 th St,	33 rd St,	Alhambra	Through Alhambra
4:33PM		S		(3.10/56 TH -40 TH)	S					S		5.46 MINUTES
5:02PM			S		(2.45/56 TH -40 TH)	S				(2.67)	S	5.30 MINUTES
5:34PM					(2.46/56 TH -40 TH)					S*		5:51 MINUTES

*Stopped @42nd Street for the signal on 39th (red)

SEGMENT/START TIME.	SIGNALIZED INTERSECTION- CONGESTION OR NOT.										TIME TAKEN
E/B Folsom @ Alhambra,	34 th St,	36 th St,	39 th St,	43 rd St,	47 th St,	51 st St,	55 th St,	56 th St,			Through 56 th St
4:08PM				(2.19/34 TH -47 TH)	S					S	4.21 MINUTES
4:41PM		S			S(1.50/34 TH -47 TH)	S				(2.03)	4.57 MINUTES
5:10PM		S*			S (2.40/34 TH -47 TH)					S	5.59 MINUTES

*Stopped @ 32nd Street for signal on 34th (red) 2 cycles to get through

WB Folsom @ 56 TH St,	55 th St,	51 st St,	47 th St,	43 rd St,	39 th St,	36 th St,	34 th St,	Alhambra			Through Alhambra
4:18PM				S(2.12/47 TH -34 TH)							3.46 MINUTES
4:48PM		S			S(2.21/47 TH -34 TH)			S		(2.21)	4.49 MINUTES
5:18PM					S(2.30/47 TH -34 TH)	S					4.52 MINUTES

Daily Traffic Volume Data from City of Sacramento Traffic Engineering
Traffic Count Database
("Before" Conditions)

04/29/2010	FOLSOM BL	43RD ST	47TH ST	WB	7,525	660	661
04/29/2010	FOLSOM BL	43RD ST	47TH ST	EB/WB	14,986	1,099	1,512
04/29/2010	FOLSOM BL	43RD ST	47TH ST	EB	7,461	476	882

05/18/2011	J ST	44TH ST	45TH ST	WB	5,807	472	503
05/18/2011	J ST	44TH ST	45TH ST	EB	7,238	492	708
05/18/2011	J ST	44TH ST	45TH ST	EB/WB	13,045	899	1,211

Prepared by NDS/ATD

Volumes for: Thursday, April 03, 2014

City: Sacramento

Project #: 14-7205-003

Location: Folsom Boulevard between 44th Street and 45th Street

Start Time	Eastbound		Hour Totals		Westbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	10	123			9	110				
12:15	4	136			3	106				
12:30	7	119			4	146				
12:45	7	165	28	543	3	134	19	496	47	1039
1:00	5	128			4	132				
1:15	3	131			0	133				
1:30	5	129			4	127				
1:45	2	132	15	520	3	150	11	542	26	1062
2:00	3	114			0	118				
2:15	2	146			4	157				
2:30	4	118			6	127				
2:45	1	148	10	526	0	152	10	554	20	1080
3:00	1	154			2	125				
3:15	1	144			0	146				
3:30	3	165			1	156				
3:45	2	156	7	619	7	153	10	580	17	1199
4:00	4	178			3	145				
4:15	1	150			4	166				
4:30	2	179			8	176				
4:45	4	210	11	717	11	179	26	666	37	1383
5:00	5	223			5	188				
5:15	4	224			17	200				
5:30	10	212			17	183				
5:45	12	190	31	849	24	152	63	723	94	1572
6:00	11	168			22	161				
6:15	18	136			32	144				
6:30	25	127			54	116				
6:45	39	102	93	533	53	121	161	542	254	1075
7:00	48	101			83	110				
7:15	75	114			112	86				
7:30	111	87			141	103				
7:45	149	82	383	384	162	81	498	380	881	764
8:00	122	79			175	112				
8:15	101	74			165	82				
8:30	96	63			129	60				
8:45	115	47	434	263	109	66	578	320	1012	583
9:00	92	35			106	59				
9:15	71	62			94	40				
9:30	98	38			85	37				
9:45	71	19	332	154	97	29	382	165	714	319
10:00	115	26			85	47				
10:15	95	24			79	17				
10:30	107	19			96	31				
10:45	113	12	430	81	112	17	372	112	802	193
11:00	115	19			96	17				
11:15	113	20			110	14				
11:30	120	16			136	10				
11:45	117	10	465	65	123	8	465	49	930	114
Total	2239	5254	2239	5254	2595	5129	2595	5129	4834	10383
Combined Total	7493		7493		7724		7724		15217	
AM Peak	11:30 AM				7:30 AM					
Vol.	496				643					
P.H.F.	0.912				0.919					
PM Peak	4:45 PM				4:45 PM					
Vol.	869				750					
P.H.F.	0.970				0.938					
Percentage	29.9%	70.1%			33.6%	66.4%				

Volumes for: Thursday, April 03, 2014

City: Sacramento

Project #: 14-7205-006

Location: J Street between 44th Street and 45th Street

Start Time	Eastbound		Hour Totals		Westbound		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	7	127			5	107				
12:15	15	122			3	94				
12:30	9	114			4	89				
12:45	4	173	35	536	2	103	14	393	49	929
1:00	1	174			2	91				
1:15	4	132			3	101				
1:30	4	140			2	115				
1:45	3	125	12	571	2	99	9	406	21	977
2:00	10	120			1	89				
2:15	3	135			5	115				
2:30	6	133			3	107				
2:45	3	157	22	545	4	103	13	414	35	959
3:00	0	158			2	113				
3:15	2	184			1	113				
3:30	2	160			1	125				
3:45	3	164	7	666	3	111	7	462	14	1128
4:00	2	177			1	123				
4:15	1	199			2	114				
4:30	0	184			6	123				
4:45	7	199	10	759	4	115	13	475	23	1234
5:00	8	188			3	123				
5:15	7	224			8	155				
5:30	12	200			10	113				
5:45	20	149	47	761	12	88	33	479	80	1240
6:00	16	132			27	105				
6:15	20	118			15	119				
6:30	47	94			31	75				
6:45	53	87	136	431	51	84	124	383	260	814
7:00	65	88			55	93				
7:15	86	99			80	68				
7:30	119	85			100	66				
7:45	138	82	408	354	150	82	385	309	793	663
8:00	106	78			100	66				
8:15	127	67			95	49				
8:30	123	79			97	44				
8:45	114	64	470	288	107	60	399	219	869	507
9:00	118	72			94	46				
9:15	93	47			82	52				
9:30	117	46			72	27				
9:45	113	50	441	215	98	36	346	161	787	376
10:00	107	59			90	27				
10:15	110	40			77	26				
10:30	111	37			108	22				
10:45	117	32	445	168	78	18	353	93	798	261
11:00	109	25			81	9				
11:15	126	20			88	8				
11:30	138	17			96	9				
11:45	127	25	500	87	99	8	364	34	864	121
Total	2533	5381	2533	5381	2060	3828	2060	3828	4593	9209
Combined Total	7914		7914		5888		5888		13802	
AM Peak	11:15 AM				7:30 AM					
Vol.	518				445					
P.H.F.	0.938				0.742					
PM Peak	4:45 PM				4:30 PM					
Vol.	811				516					
P.H.F.	0.905				0.832					
Percentage	32.0%	68.0%			35.0%	65.0%				