

AGENDA

PARKING AND TRAFFIC COMMISSION of the CITY OF HANFORD

**COUNCIL CHAMBERS
400 N. Douty St.
5:30 PM, Thursday, March 23, 2017**

CALL TO ORDER

ROLL CALL

FLAG SALUTE

MINUTES APPROVAL

1. Approve Minutes from January, 26 2017 Parking & Traffic Commission Meeting

PUBLIC COMMENT

*This is the time for citizens to comment on subject matters not on the agenda and that are within the jurisdiction of the Commission. A maximum of **five minutes** is allowed for each speaker. Please begin your comments by stating your name and providing your city of residence.*

STAFF REPORTS

2. Crosswalk on Florinda Street at Sequoia Circle: This item was tabled at the January 26, 2017 Meeting
3. Crosswalk on Centennial Drive at the Softball Complex
4. Flashing Beacons on Harris Street Crossing at Saint Rose McCarthy School

STAFF COMMUNICATION

5. City Council Actions

COMMISSIONERS ITEMS OF INTEREST

ADJOURNMENT

Materials related to an item on this Agenda submitted to the Parking & Traffic Commission after distribution of the agenda packet are available to public inspection in the Public Works Office located at 900 S. 10th Avenue, Hanford, California 93230, during normal business hours. Such documents are also available at the city's website, www.cityofhanfordca.com subject to staff's ability to post documents before the meeting.

If you need a disability-related modification or accommodation, including auxiliary aids or services, to participate in this meeting, please contact the Public Works office, 559-585-7166, 900 S. 10th Avenue, Hanford, California 93230, at least 2 days prior to the meeting {28 CFR 35.102.35.104 ADA Title II}



**AGENDA
STAFF REPORT**

MEETING DATE: 3/23/2017	AGENDA SECTION: 1
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SUBJECT:

Approve Minutes from January, 26 2017 Parking & Traffic Commission Meeting

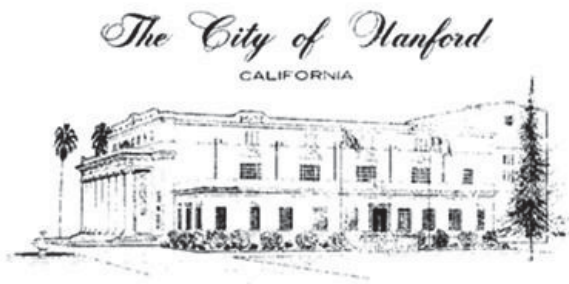
RECOMMENDATION:

That the Parking & Traffic Commission, by motion, approve the January 26, 2017 Parking & Traffic Minutes.

FISCAL IMPACT:

ATTACHMENTS:

1.26.17 minutes



MINUTES
PARKING AND TRAFFIC COMMISSION
of the
CITY OF HANFORD

COUNCIL CHAMBERS
400 N. Douty St.
5:30 PM, Thursday, January 26, 2017

CALL TO ORDER

Vice-Chairman MacLELLAN called the meeting to order at 5:30 pm.

ROLL CALL

Attendee Name	Title	Status	Arrived
Glenda Dwyer	Commissioner	Present	
James MacLellan	Vice-Chairman	Present	
Demeatrus Robinson	Commissioner	Absent	
Alex Dwiggins	Commissioner	Present	
Jeffrey Porterfield	Commissioner	Present	

Also in attendance:

Gerry Mulligan, Director of Facilities & Operations, Hanford Elementary School District

Joy Gabler, Superintendent, Hanford Elementary School District

Kevin McAlister, Director, Kings County Public Works

FLAG SALUTE

Vice-Chairman MacLELLAN lead the flag salute.

MINUTES APPROVAL

- 1. Approve Minutes from October, 27 2016 Parking & Traffic Commission Meeting**

Attachment: 1.26.17 minutes (1903 : 1.26.17 minutes)

RESULT:	APPROVED [3 TO 0]
MOVER:	Alex Dwiggins, Commissioner
SECONDER:	Glenda Dwyer, Commissioner
AYES:	Dwyer, MacLellan, Dwiggins
ABSTAIN:	Porterfield
ABSENT:	Robinson

PUBLIC COMMENT

*This is the time for citizens to comment on subject matters not on the agenda and that are within the jurisdiction of the Commission. A maximum of **five minutes** is allowed for each speaker. Please begin your comments by stating your name and providing your city of residence.*

There were no comments given.

STAFF REPORTS

2. Crosswalk on Florinda Street at Sequoia Circle

Staff presented a request by Hanford Elementary School District for a crosswalk on Florinda Street at Sequoia Circle. Staff conducted a traffic study at this intersection and determined that the intersection did not meet the warrants for a crosswalk. Gerry Mulligan, Director of Facilities & operations for Hanford Elementary School District and Joy Gable, Superintendent of Hanford Elementary School District both spoke in favor of the crosswalk. Staff responded to questions and comments from Commissioners. Commissioner DWIGGINS made a motion to table this item until better weather and another pedestrian study can be conducted and to have this item brought back to the Commission for future review.

RESULT:	TABLED [UNANIMOUS]	Next: 3/23/2017 5:30 PM
MOVER:	Alex Dwiggins, Commissioner	
SECONDER:	Jeffrey Porterfield, Commissioner	
AYES:	Dwyer, MacLellan, Dwiggins, Porterfield	
ABSENT:	Robinson	

3. Install All-way Stop on 12th Avenue at Flint Avenue

Staff presented a request for an All-way Stop at the intersection of 12th Avenue at Flint Avenue by Kings County Public Works. Kevin McAlister, Director of Public Works for Kings County was introduced to Commissioners for further information. Staff answered questions and comments from Commissioners. Commissioner DWIGGINS made a motion to recommend that City Council allow the Kings County Public Works project to make 12th Avenue at Flint Avenue an All-way Stop intersection and to change section 10.32.010 of the Municipal Code to include this intersection as an All-way Stop.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Alex Dwiggins, Commissioner
SECONDER:	Glenda Dwyer, Commissioner
AYES:	Dwyer, MacLellan, Dwiggins, Porterfield
ABSENT:	Robinson

STAFF COMMUNICATION

4. City Council Actions

Attachment: 1.26.17 minutes (1903 : 1.26.17 minutes)

Staff commented briefly on Actions of the City Council.

COMMISSIONERS ITEMS OF INTEREST

ADJOURNMENT

Vice-Chairman MacLELLAN adjourned the meeting at 7:02 pm.

Respectfully submitted,

Shawn Dailey, Secretary
Engineering Technician, II

Attachment: 1.26.17 minutes (1903 : 1.26.17 minutes)



AGENDA STAFF REPORT

MEETING DATE: 3/23/2017	AGENDA SECTION: 2
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SUBJECT:

Crosswalk on Florinda Street at Sequoia Circle: This item was tabled at the January 26, 2017 Meeting

RECOMMENDATION:

That a crosswalk not be placed on Florinda Street at Sequoia Circle.

BACKGROUND:

Parking & Traffic Commissioners tabled this item at the January 26, 2017 meeting asking that staff bring this item back to the Commission after another pedestrian count could be completed. Another morning and afternoon pedestrian count was conducted on Thursday, February 23, 2017. The re-count netted 40 pedestrians which is 9 more than the last count. Based on the re-count the crosswalk does not meet warrants.

Original Report:

Staff received a request from Hanford Elementary School District asking if a crosswalk could be placed on Florinda Street at Sequoia Circle. It was stated that students are crossing at this intersection. To address this concern, staff conducted an intersection study of the location.

Florinda Street is an east-west bound two-lane residential street with a curb to curb width of 60 feet. This width is adequate for a single lane in each direction with room for street parking with Florinda Street having the thru movement. Sequoia Circle is a north-south bound two-lane residential street with a curb to curb width of 38 feet. This width is adequate for two lanes in each direction with room for parking with Sequoia Circle having to stop.

The speed limit on Florinda Street is 30 MPH on Sequoia Circle it is prima facie 25 MPH. The 85th percentile speed on Florinda Street is 34 MPH with the majority of the traffic volume being on Florinda Street. In the last five years, there have been 1 accident reported at the intersection

which evolved a single vehicle hitting a fire hydrant. . The sight stopping distance at the intersection is adequate for north bound Sequoia Circle and westbound Florinda Street however, the sight stopping distance for east bound Florinda Street does not meet the required sight distance and would require additional traffic controls for the condition.

There are 2 schools in the vicinity of the intersection and crosswalks are located approximately 500 feet east and 500' west of the intersection. The crossing to the west is a controlled crossing location. Students from Lee Richmond Elementary School and John F. Kennedy Junior High School are provided a Suggested Routes to School map at the beginning of the school year which directs them to the crosswalks previously mentioned

The warrant for a crosswalk was checked, and the intersection does not meet the four basic warrants based on the low pedestrian counts, sight visibility for east bound traffic, existing crosswalks in close proximity, and adequate gaps provided.

A gap study was performed to determine the number of opportunities a pedestrian has to cross Florinda Street in the morning and afternoon vehicle peak hours. Based on calculations, a pedestrian will take 15 seconds to cross Florinda Street. The gap study shows that there are 4.5 opportunities in a 5 minute period during the peak vehicle hours for a pedestrian to safely cross the road.

Based on the crosswalk study not meeting the basic warrants, Staff recommends that no additional intersection controls be placed at this time. Attached is an aerial photo of the area, warrant for pedestrian crosswalks, and the entering volume summary.

Respectfully submitted,

Shawn Dailey
Engineering Technician, II

FISCAL IMPACT:

ATTACHMENTS:

JFK crosswalk study
2.23.17 report

Request for Crosswalk



Google Earth



LOCATION: FLORINDA ST. AT SEQUOIA CIR.WARRANTS FOR PEDESTRIAN CROSSWALKS

In order to qualify for a marked crosswalk, a location must: (A) meet the following basic warrants, and (B) rate 16 points or more under the following point system:

A) Basic WarrantsSATISFIEDPedestrian Volume Warrant

Yes No

Are there more than 20 pedestrians crossing during peak hour?

Crosswalks will not be installed where the pedestrian volume is less than 20 pedestrians per hour (pph) during the peak pedestrian hour.

☒ ☐Approach Speed Warrant**Is the 85 percentile less than 45 mph?**

Crosswalks will not be installed on roadways where the 85th percentile approach speeds are in excess of 45 mph. The approach speeds shall be determined by approved engineering speed study techniques. All crosswalks installed on roadways in excess of 40 mph will require additional safety improvements (ie. traffic-calming treatments, flashing beacons, and/or rapid flashings signs, etc.)

☒ ☐Visibility Warrant**Is visibility clear for 200'?**

Crosswalks will not be installed unless the motorist has an unrestricted view of all pedestrians at the proposed crosswalk site, for a distance not less than 200' approaching from each direction. Sites with grades, curves and other sight-restrictive features will require special attention.

☐ ☒Illumination Warrant

Proposed crosswalk site must have adequate crosswalk lighting in existence or scheduled for installation prior to the installation of the crosswalk.

☐ ☒**Is there adequate lighting at the site?**B) Warrant point system

Children under 13 years of age, adults over 64 years of age, or disabled persons count as 1.5 pedestrians.

Pedestrian Volume WarrantCriterion

Point Assignment
Pedestrian Total Points

The total number of pedestrians crossing the street under study during the peak pedestrian hour. This includes pedestrians in both crosswalks at an intersection. Crosswalks will not be installed where the pedestrian volume is 20 pph or less.

0-20	0
21-40	2
41-60	4
61-90	6
91-100	8
Over 100	10
Maximum	10

31 TOTAL
PEDESTRIANS

2

General Conditions Warrant

	Points
(a) Will clarify and define pedestrian routes across a complex Intersection.	2 ☒
(b) Will channelize pedestrians into a significantly shorter path.	2 ☐
(c) Will position pedestrians to be seen better by motorists.	2 ☐
(d) Will position pedestrians to expose them to fewer vehicles.	2 ☐
(e) Is located within the Central Business District.	2 ☐
(f) Is <u>adjacent</u> to a pedestrian generating facility (i.e. school, park, shopping district, etc.)	4 ☒
Maximum	10 <u>6</u>

Gap Time Warrant

Criterion	Point Assignment	
	Average number of gaps per five-minute period	Points
The number of unimpeded vehicle time gaps equal to or exceeding the required pedestrian crossing time (PCT) in an average five minute period during the peak vehicle hour.	0 – 0.99	10 ☐
	1 – 1.99	8 ☐
	2 – 2.99	6 ☐
	3 – 3.99	4 ☐
	4 – 4.99	2 ☒
	5 or over	0 ☐
	Maximum	10

2

Computations:

$$(1) \text{ Pedestrian crossing time} = \frac{\text{Street width curb to curb}}{4.0 \text{ feet per second}}$$

$$60' = 15 \text{ sec.}$$

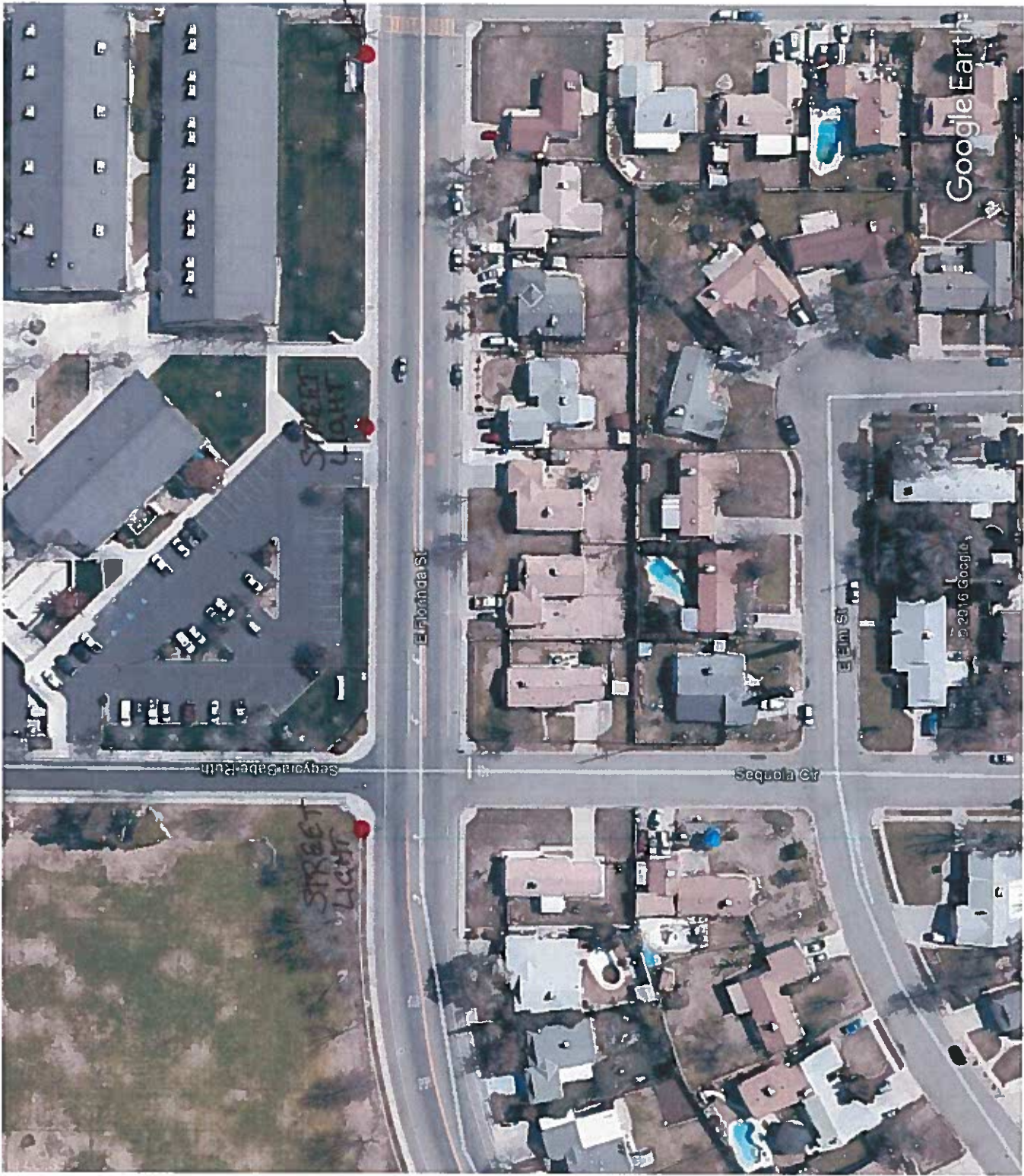
$$(2) \text{ Average number of gaps per five-minute period} = \frac{\text{Total gaps/hr} > \text{required PCT}}{12}$$

$$\frac{54}{12} = 4.5$$

Provisions:

- (1) The above criterion is based on a one hour field survey.
- (2) All roadways having a raised median or a painted median (4 foot minimum width) will be considered as two separate roadways, if the pedestrian has a protected place to stand out of the path of traffic.

10 pts.



600
200

feet
meters

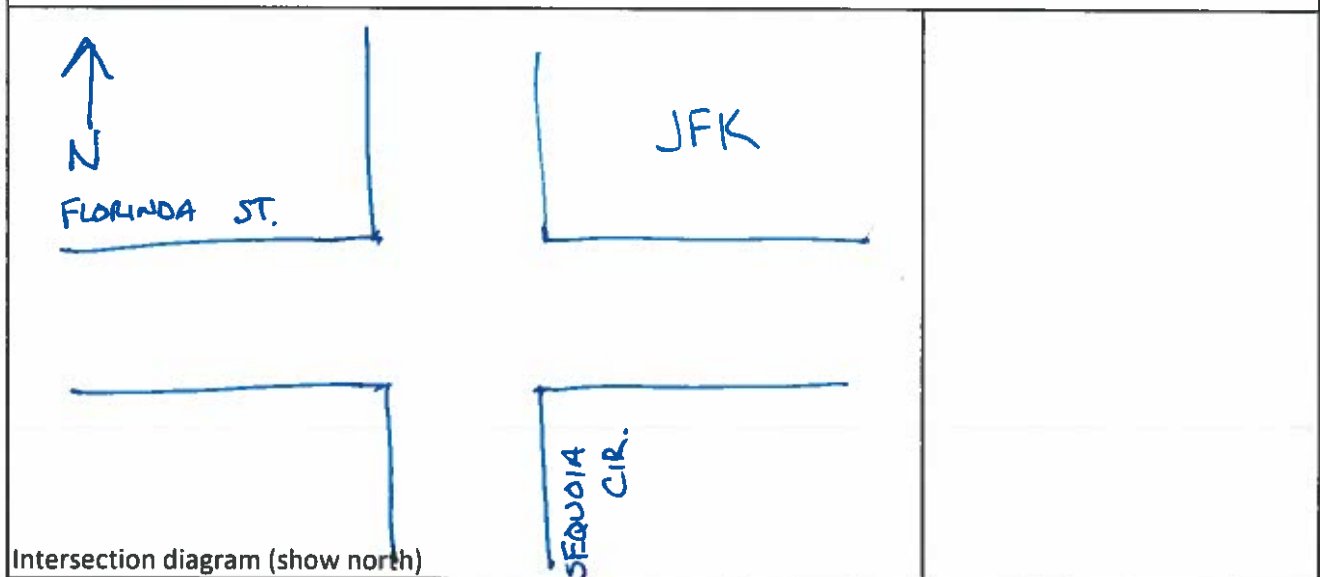
Google Earth

Weather OVERCASTTime Interval (2 hours) 7-9 AMLocation FLORINDA ST. AND SEQUOIA CIR.

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
7:15	NNEW	WN			
7:30	EWEWWNNPEWN NWEWWNNNN WE	WW			
7:45	EEEEEEEEEEWW WEEEEEENEW WWNEEEENEW	W			
8:00	EEEEEEWNEE EENNEEE	WE			
8:15	NEE				
8:30	E				
8:45					
9:00					
	(20) (x1.5)= 30	1	(x1.5)=	(x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below

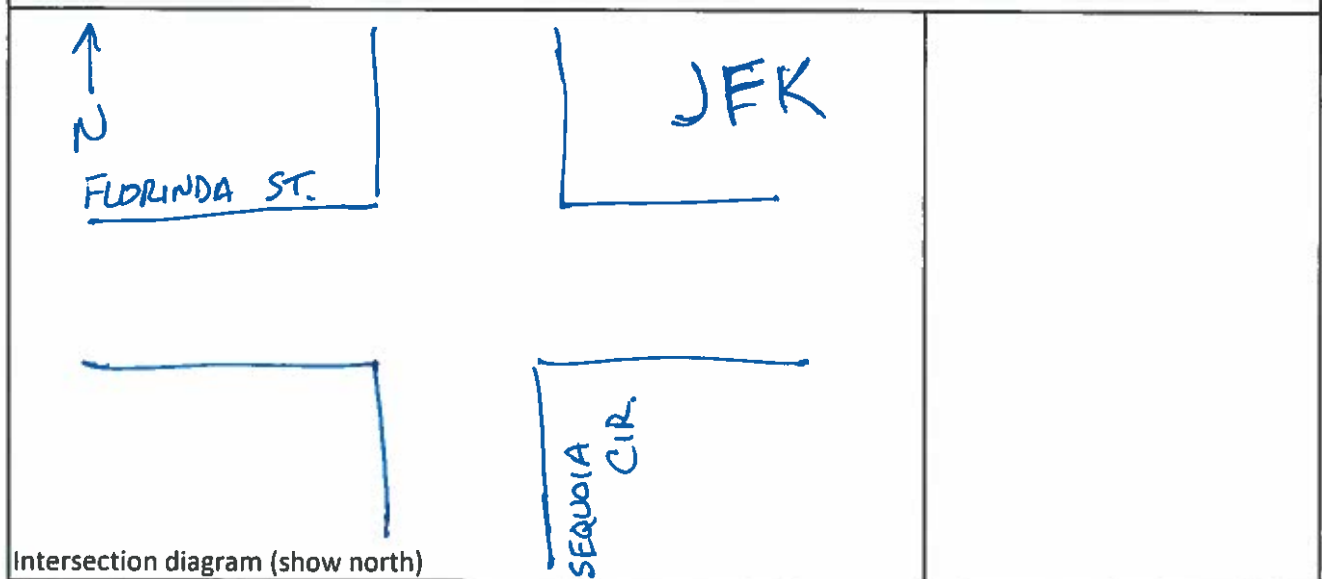


Weather OVERCASTTime Interval (2 hours) 2-4 PMLocation FLORINDA ST. AND SEQUOIA CIR.

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
2:15	W	FEW			
2:30	S	EES			
2:45	SE	N			
3:00	EWEESEEESEF-SW ESSWEEWENWNN WNNWSSWS				
3:15	WNNWNNWSSWNN WNNWNNWNNWNN WNNWNNWNNWNN WSSWNNWNNWNN				
3:30	WNNWNNWNNWNN EESEWNSSEEE E	EE			
3:45	EEWWWE	EEW			
4:00	E	E			
	(17) (x1.5)= 25.5	3	(x1.5)=	(x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below



City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 EB
Florinda St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th	95th
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Percent	Percent
08/31/16		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00		5	4	15	21	12	6	2	0	0	0	0	0	0	0	65	34	38
12 PM		11	6	17	40	16	5	1	0	0	0	0	0	0	0	96	32	36
13:00		2	3	15	20	17	8	0	0	0	0	0	0	0	0	65	34	37
14:00		1	4	10	18	9	13	0	0	0	0	0	0	0	0	55	36	38
15:00		2	4	15	27	24	10	0	0	0	0	0	0	0	0	82	34	37
16:00		2	1	19	21	26	9	3	1	0	0	0	0	0	0	82	35	39
17:00		1	3	20	32	22	15	1	0	0	0	0	0	0	0	94	35	38
18:00		3	3	13	30	23	6	0	0	0	0	0	0	0	0	78	33	36
19:00		3	4	14	30	17	7	0	0	0	0	0	0	0	0	75	33	37
20:00		10	7	15	18	12	10	0	0	0	0	0	0	0	0	72	34	38
21:00		3	3	16	18	8	3	1	0	0	0	0	0	0	0	52	32	37
22:00		2	2	10	7	9	1	0	1	0	0	0	0	0	0	32	33	37
23:00		1	1	5	10	5	2	0	0	0	0	0	0	0	0	24	33	36
Total		46	45	184	292	200	95	8	2	0	0	0	0	0	0	872		
Percent		5.3%	5.2%	21.1%	33.5%	22.9%	10.9%	0.9%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak		11:00	11:00	11:00	11:00	11:00	11:00	11:00								11:00		
Vol.		5	4	15	21	12	6	2								65		
PM Peak		12:00	20:00	17:00	12:00	16:00	17:00	16:00	16:00							12:00		
Vol.		11	7	20	40	26	15	3	1							96		

Attachment: JFK crosswalk study (1796 : Florinda-Sequia crosswalk)

City of Hanford

900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 EB
Florida St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	85th	95th
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999	Percent	Percent
09/01/16		1	0	0	2	3	1	1	0	0	0	0	0	0	0	8	42
01:00		0	0	1	0	1	3	0	0	0	0	0	0	0	0	5	39
02:00		1	1	1	0	0	1	0	0	0	0	0	0	0	0	4	39
03:00		1	0	1	0	1	0	0	0	0	0	0	0	0	0	3	34
04:00		0	0	1	4	0	0	0	0	0	0	0	0	0	0	5	29
05:00		1	2	2	9	4	3	1	0	0	0	0	0	0	0	22	39
06:00		1	3	7	5	7	5	2	0	0	1	0	0	0	0	31	43
07:00		3	4	18	30	24	7	1	1	0	0	0	0	0	0	88	38
08:00		4	1	14	15	13	8	0	0	0	0	0	0	0	0	55	38
09:00		2	0	7	10	17	1	2	0	0	0	0	0	0	0	39	40
10:00		2	1	3	18	16	8	0	0	0	0	0	0	0	0	48	38
11:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total		16	12	55	93	86	37	7	1	0	1	0	0	0	0	308	
Percent		5.2%	3.9%	17.9%	30.2%	27.9%	12.0%	2.3%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%		
AM Peak		08:00	07:00	07:00	07:00	07:00	08:00	06:00	07:00							07:00	
Vol.		4	4	18	30	24	8	2	1		1					88	
PM Peak																	
Vol.																	
Total		62	57	239	385	286	132	15	3	0	1	0	0	0	0	1180	
Percent		5.3%	4.8%	20.3%	32.6%	24.2%	11.2%	1.3%	0.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%		

Stats

10 MPH Pace Speed : 26-35 MPH
Number in Pace : 671
Percent in Pace : 56.9%
Number of Vehicles > 30 MPH : 437
Percent of Vehicles > 30 MPH : 37.0%
Mean Speed(Average) : 28 MPH

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 WB
Florida St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th	95th
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	Percent	Percent	Percent
08/31/16																		
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	1	9	21	15	9	6	0	0	0	0	0	0	0	0	0	61	33	37
12 PM	13	21	30	31	13	3	1	0	0	0	0	0	0	0	0	112	30	34
13:00	3	7	18	23	19	3	2	0	0	0	0	0	0	0	0	75	33	37
14:00	7	5	11	13	14	4	1	1	1	0	0	0	0	0	0	56	34	39
15:00	2	4	15	12	17	14	4	1	1	0	0	0	0	0	0	69	38	41
16:00	3	4	15	17	19	6	1	0	0	0	0	0	0	0	0	65	34	38
17:00	2	5	20	24	24	10	1	1	0	0	0	0	0	0	0	87	34	38
18:00	2	6	30	29	18	8	2	0	0	0	0	0	0	0	0	95	33	38
19:00	8	5	14	18	6	5	0	0	0	0	0	0	0	0	0	56	32	37
20:00	2	5	12	25	5	1	1	0	0	0	0	0	0	0	0	52	30	37
21:00	2	2	14	15	14	3	0	0	0	0	0	0	0	0	0	50	33	35
22:00	0	2	9	8	2	2	0	0	0	0	0	0	0	0	0	23	31	37
23:00	0	1	7	4	2	1	0	2	0	0	0	0	0	0	0	17	37	47
Total	45	76	216	234	162	66	13	5	0	0	0	0	0	0	0	818		
Percent	5.5%	9.3%	26.4%	28.6%	19.8%	8.1%	1.6%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	11:00	11:00	11:00	11:00										11:00		
Vol.	1	9	21	15	9	6										61		
PM Peak	12:00	12:00	12:00	12:00	17:00	15:00	15:00	23:00		20:00						12:00		
Vol.	13	21	30	31	24	14	4	2		1						112		

Attachment: JFK crosswalk study (1796 : Florida-Sequia crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 WB
Florida St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent	95th Percent
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999				
09/01/16	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	3	47	49
01:00	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3	32	34
02:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	38	39
03:00	0	1	0	1	2	1	0	0	0	0	0	0	0	0	0	5	36	38
04:00	2	1	4	4	1	1	1	0	0	0	0	0	0	0	0	14	34	41
05:00	2	5	10	6	2	3	0	0	0	0	0	0	0	0	0	28	32	37
06:00	0	3	16	12	4	4	4	1	0	0	0	0	0	0	0	44	38	43
07:00	2	11	34	53	35	10	1	0	0	0	0	0	0	0	0	146	33	36
08:00	3	2	15	15	14	12	3	0	0	0	0	0	0	0	0	64	37	39
09:00	4	2	12	15	10	5	2	0	0	0	0	0	0	0	0	50	34	39
10:00	1	4	7	13	12	5	2	0	0	0	0	0	0	0	0	44	35	39
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	14	29	99	122	81	43	13	2	0	0	0	0	0	0	0	403		
Percent	3.5%	7.2%	24.6%	30.3%	20.1%	10.7%	3.2%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	09:00	07:00	07:00	07:00	07:00	08:00	06:00	00:00								07:00		
Vol.	4	11	34	53	35	12	4	1								146		
PM Peak																		
Vol.																		
Total	59	105	315	356	243	109	26	7	0	0	1	0	0	0	0	1221		
Percent	4.8%	8.6%	25.8%	29.2%	19.9%	8.9%	2.1%	0.6%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 20 MPH
50th Percentile : 26 MPH
85th Percentile : 34 MPH
95th Percentile : 38 MPH

Stats
10 MPH Pace Speed : 21-30 MPH
Number in Pace : 671
Percent in Pace : 55.0%
Number of Vehicles > 30 MPH : 386
Percent of Vehicles > 30 MPH : 31.6%
Mean Speed(Average) : 27 MPH

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 EB
Florida St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1	Start		7		9		11		13		15		17		19		21		23		25		27		999
	Time		5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
08/31/16																									
01:00																									
02:00																									
03:00																									
04:00																									
05:00																									
06:00																									
07:00																									
08:00																									
09:00																									
10:00																									
11:00																									
12 PM																									
13:00																									
14:00																									
15:00																									
16:00																									
17:00																									
18:00																									
19:00																									
20:00																									
21:00																									
22:00																									
23:00																									
Total																									

Attachment: JFK crosswalk study (1796 : Florida-Sequia crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 EB
Florinda St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1	1	5	7	9	11	13	15	17	19	21	23	25	27	29
Start Time	4	6	8	10	12	14	16	18	20	22	24	26	28	999
09/01/16	0	0	0	0	0	0	0	0	0	0	0	0	0	8
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00	0	0	0	0	0	1	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	5
05:00	0	0	2	0	1	0	0	0	0	1	0	0	0	18
06:00	2	0	0	0	0	0	0	0	0	1	1	0	1	26
07:00	9	6	4	2	6	5	3	4	4	2	1	1	3	38
08:00	9	2	2	1	2	0	0	4	1	2	2	0	2	28
09:00	0	0	0	1	3	2	1	0	0	2	1	1	1	27
10:00	4	3	3	1	0	0	0	0	0	1	1	1	0	34
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	24	11	11	5	12	8	4	8	5	9	6	3	7	195
Grand Total	123	56	38	40	34	35	27	27	29	31	27	22	22	669

Attachment: JFK crosswalk study (1796 : Florinda-Sequia crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 WB
Florida St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1		1	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Start Time																													999
08/31/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	4	4	4	10	3	7	3	1	5	2	7	1	1	4	2	0	4	1	1	2	2	4	0	1	1	1	1	37	
12 PM	24	9	5	4	4	7	4	3	3	3	3	2	2	1	1	4	4	1	1	4	4	1	3	1	1	1	1	42	
13:00	8	4	4	0	4	0	4	4	3	2	3	0	0	0	0	1	1	2	2	1	1	0	2	2	2	2	2	30	
14:00	3	2	2	2	3	2	3	3	5	2	0	3	1	5	3	1	1	1	1	3	5	3	1	1	1	1	1	41	
15:00	4	3	3	6	11	3	3	2	2	1	1	4	1	3	3	1	1	4	1	0	0	2	2	0	0	1	1	36	
16:00	7	11	7	10	3	10	3	3	2	2	2	3	3	4	5	1	1	3	3	0	0	3	3	0	0	3	3	48	
17:00	11	5	7	0	5	0	0	2	2	0	0	1	1	0	0	0	0	2	2	2	2	1	1	2	2	2	2	41	
18:00	5	4	5	0	7	0	0	3	3	0	0	1	1	0	0	1	1	2	0	0	0	1	1	1	1	0	0	36	
19:00	4	2	0	2	0	0	0	2	2	0	0	0	0	0	0	1	1	0	0	2	2	1	1	1	1	0	0	35	
20:00	2	0	0	0	0	2	0	0	0	1	0	1	1	1	1	0	0	1	1	0	0	1	1	2	2	0	0	37	
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	21	
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	37	
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
Total	81	57	34	33	20	17	25	11	11	17	20	18	14	14	12	12	12	12	12	12	12	12	12	14	14	12	12	459	

Attachment: JFK crosswalk study (1796 : Florida-Sequia crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 WB
Florinda St. e. of Lassen Dr.
Date Start: 31-Aug-16

Direction 1 Start Time	1	5	7	9	11	13	15	17	19	21	23	25	27	29
	4	6	8	10	12	14	16	18	20	22	24	26	28	999
09/01/16	0	0	0	0	0	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	5
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	13
05:00	1	0	0	1	0	1	0	0	0	0	0	1	0	24
06:00	3	1	2	1	0	1	2	0	1	1	2	1	0	29
07:00	31	12	15	8	9	9	3	4	2	4	7	4	3	35
08:00	6	3	3	1	2	1	2	3	0	4	0	0	1	38
09:00	5	2	0	2	0	0	0	2	3	1	3	0	0	32
10:00	1	3	1	1	0	2	0	1	0	0	2	0	2	31
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	48	21	21	14	11	14	7	10	6	10	14	6	6	215
Grand Total	129	78	55	47	31	31	32	21	23	30	32	20	18	674

Attachment: JFK crosswalk study (1796 : Florinda-Sequia crosswalk)

City of Hanford

900 S. 10th Avenue
Hanford, CA 93230Site Code: 064 FY EB
Florinda St. e. of Lassen Dr.
Date Start: 31-Aug-16

Start Time	Mon 29-Aug-16	Tue	Wed	Thu	Fri	Average Day	Sat	Sun	Week Average
12:00 AM	*	*	*	8	*	8	*	*	8
01:00	*	*	*	5	*	5	*	*	5
02:00	*	*	*	4	*	4	*	*	4
03:00	*	*	*	3	*	3	*	*	3
04:00	*	*	*	5	*	5	*	*	5
05:00	*	*	*	22	*	22	*	*	22
06:00	*	*	*	31	*	31	*	*	31
07:00	*	*	*	88	*	88	*	*	88
08:00	*	*	*	55	*	55	*	*	55
09:00	*	*	*	39	*	39	*	*	39
10:00	*	*	*	48	*	48	*	*	48
11:00	*	*	65	*	*	65	*	*	65
12:00 PM	*	*	96	*	*	96	*	*	96
01:00	*	*	65	*	*	65	*	*	65
02:00	*	*	55	*	*	55	*	*	55
03:00	*	*	82	*	*	82	*	*	82
04:00	*	*	82	*	*	82	*	*	82
05:00	*	*	94	*	*	94	*	*	94
06:00	*	*	78	*	*	78	*	*	78
07:00	*	*	75	*	*	75	*	*	75
08:00	*	*	72	*	*	72	*	*	72
09:00	*	*	52	*	*	52	*	*	52
10:00	*	*	32	*	*	32	*	*	32
11:00	*	*	24	*	*	24	*	*	24
Total	0	0	872	308	0	1180	0	0	1180
% Avg. WkDay	0.0%	0.0%	73.9%	26.1%	0.0%	100.0%			
% Avg. Week	0.0%	0.0%	73.9%	26.1%	0.0%	100.0%	0.0%	0.0%	
AM Peak	-	-	11:00	07:00	-	07:00	-	-	07:00
Vol.	-	-	65	88	-	88	-	-	88
PM Peak	-	-	12:00	-	-	12:00	-	-	12:00
Vol.	-	-	96	-	-	96	-	-	96
Total	0	0	872	308	0	1180	0	0	1180
ADT	ADT 1,120		AADT 1,120						

City of Hanford900 S. 10th Avenue
Hanford, CA 93230

Site Code: 064 FY16 WB

Date Start: 31-Aug-16

Start Time	Mon 29-Aug-16	Tue	Wed	Thu	Fri	Average Day	Sat	Sun	Week Average
12:00 AM	*	*	*	3	*	3	*	*	3
01:00	*	*	*	3	*	3	*	*	3
02:00	*	*	*	2	*	2	*	*	2
03:00	*	*	*	5	*	5	*	*	5
04:00	*	*	*	14	*	14	*	*	14
05:00	*	*	*	28	*	28	*	*	28
06:00	*	*	*	44	*	44	*	*	44
07:00	*	*	146	*	*	146	*	*	146
08:00	*	*	*	64	*	64	*	*	64
09:00	*	*	*	50	*	50	*	*	50
10:00	*	*	*	44	*	44	*	*	44
11:00	*	*	61	*	*	61	*	*	61
12:00 PM	*	*	112	*	*	112	*	*	112
01:00	*	*	75	*	*	75	*	*	75
02:00	*	*	56	*	*	56	*	*	56
03:00	*	*	69	*	*	69	*	*	69
04:00	*	*	65	*	*	65	*	*	65
05:00	*	*	87	*	*	87	*	*	87
06:00	*	*	95	*	*	95	*	*	95
07:00	*	*	56	*	*	56	*	*	56
08:00	*	*	52	*	*	52	*	*	52
09:00	*	*	50	*	*	50	*	*	50
10:00	*	*	23	*	*	23	*	*	23
11:00	*	*	17	*	*	17	*	*	17
Total	0	0	818	403	0	1221	0	0	1221
% Avg. WkDay	0.0%	0.0%	67.0%	33.0%	0.0%	100.0%			
% Avg. Week	0.0%	0.0%	67.0%	33.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	-	-	11:00	07:00	-	07:00	-	-	07:00
Vol.	-	-	61	146	-	146	-	-	146
PM Peak	-	-	12:00	-	-	12:00	-	-	12:00
Vol.	-	-	112	-	-	112	-	-	112
Total	0	0	818	403	0	1221	0	0	1221
ADT	ADT 1,156		AADT 1,156						

Case Number: 161336	Date: 3/5/2016
Location: Florinda and Sequoia	
Description: By 1472	

LOCATION: FLORINDA ST. AT SEQUOIA CIK.
2/24/17

WARRANTS FOR PEDESTRIAN CROSSWALKS

In order to qualify for a marked crosswalk, a location must: (A) meet the following basic warrants, and (B) rate 16 points or more under the following point system:

A) Basic Warrants

SATISFIED

Pedestrian Volume Warrant

Yes No

Are there more than 20 pedestrians crossing during peak hour?

Crosswalks will not be installed where the pedestrian volume is less than 20 pedestrians per hour (pph) during the peak pedestrian hour.

☒ ☐

Approach Speed Warrant

Is the 85 percentile less than 45 mph?

Crosswalks will not be installed on roadways where the 85th percentile approach speeds are in excess of 45 mph. The approach speeds shall be determined by approved engineering speed study techniques. All crosswalks installed on roadways in excess of 40 mph will require additional safety improvements (ie. traffic-calming treatments, flashing beacons, and/or rapid flashings signs, etc.)

☒ ☐

Visibility Warrant

Is visibility clear for 200'?

Crosswalks will not be installed unless the motorist has an unrestricted view of all pedestrians at the proposed crosswalk site, for a distance not less than 200' approaching from each direction. Sites with grades, curves and other sight-restrictive features will require special attention.

☐ ☒

Illumination Warrant

Proposed crosswalk site must have adequate crosswalk lighting in existence or scheduled for installation prior to the installation of the crosswalk.

☐ ☒

Is there adequate lighting at the site?

B) Warrant point system

Children under 13 years of age, adults over 64 years of age, or disabled persons count as 1.5 pedestrians.

Pedestrian Volume Warrant

Criterion

Point Assignment Pedestrian Total Points

The total number of pedestrians crossing the street under study during the peak pedestrian hour. This includes pedestrians in both crosswalks at an intersection.

Crosswalks will not be installed where the pedestrian volume is 20 pph or less.

0-20	0
21-40	2
41-60	4
61-90	6
91-100	8
Over 100	10
Maximum	10

Total
Pedestrians

2 pts.

40

General Conditions Warrant

	Points
(a) Will clarify and define pedestrian routes across a complex Intersection.	2 ☒
(b) Will channelize pedestrians into a significantly shorter path.	2 ☐
(c) Will position pedestrians to be seen better by motorists.	2 ☐
(d) Will position pedestrians to expose them to fewer vehicles.	2 ☐
(e) Is located within the Central Business District.	2 ☐
(f) Is <u>adjacent</u> to a pedestrian generating facility (i.e. school, park, shopping district, etc.)	4 ☒
Maximum	10 <u>6</u> pts.

Gap Time Warrant

Criterion	Point Assignment	Points
	Average number of gaps per five-minute period	
The number of unimpeded vehicle time gaps equal to or exceeding the required pedestrian crossing time (PCT) in an average five minute period during the peak vehicle hour.	0 – 0.99	10 ☐
	1 – 1.99	8 ☐
	2 – 2.99	6 ☐
	3 – 3.99	4 ☐
	4 – 4.99	2 ☒
	5 or over	0 ☐
	Maximum	10 <u>2</u> pts.

Computations:

(1) Pedestrian crossing time = $\frac{\text{Street width curb to curb}}{4.0 \text{ feet per second}}$ 60' = 15 sec.

(2) Average number of gaps per five-minute period = $\frac{\text{Total gaps/hr} > \text{required PCT}}{12}$ $\frac{54}{12} = 4.5$

Provisions:

- (1) The above criterion is based on a one hour field survey.
- (2) All roadways having a raised median or a painted median (4 foot minimum width) will be considered as two separate roadways, if the pedestrian has a protected place to stand out of the path of traffic.

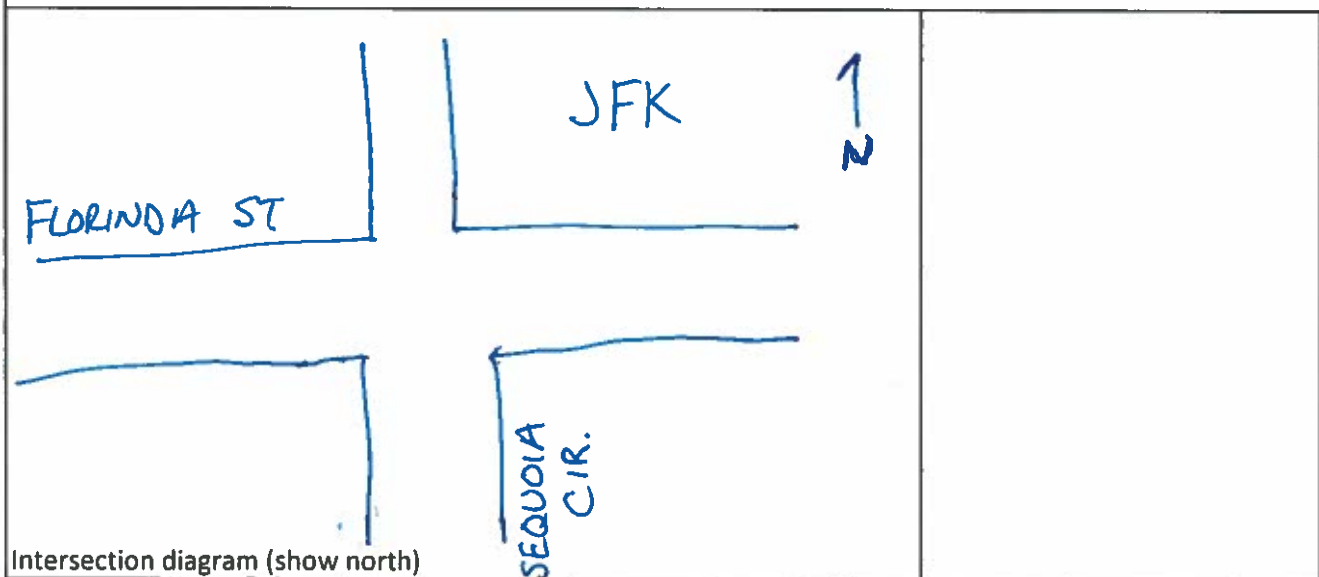
10 pts.

Weather SUNNY/DRY/CLR Time Interval (2 hours) 7-9 AMLocation FLORINDA ST AT SEQUOIA CIR

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
7:00 7:15	EEWWEE	WW			
7:16 7:30	EEEESEWNNEEEEWWWW EEEE	WW			
7:31 7:45	NEEENNEEEWWNEEEEE ENNEEEEEEEEEEW EN	WWWE			
7:46 8:00	WEFEEFEEWNNWWWW EEEEEEENN	WWE			
8:01 8:15	EENNE	E			
8:16 8:30					
8:31 8:45	E	N			
8:46 9:00		W			
	15 (x1.5)= 22.5	1	(x1.5)=	(x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below

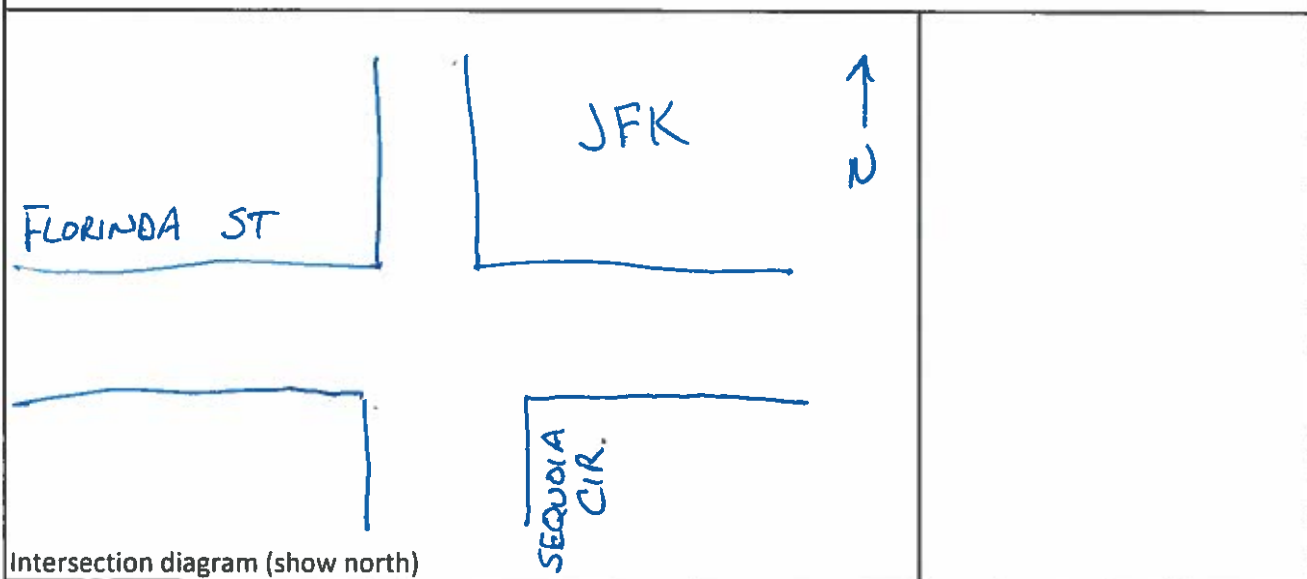


Weather SUNNY/DRY/CLR Time Interval (2 hours) 2-4 PMLocation FLORIDA ST AT SEQUOIA CIR.

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
2:00 2:15					
2:30		NWW			
2:45	SSE	SNSW			
3:00	SSEEEEEEEEEEEEEES WWWWWWWWWWWWWWWW S	WENS			
3:15	NWN SSWWWWWWWWWW NWNWWWW N SSS WWWW NWNWWWW WWWW WWWW SSWWWWWWWWWWWWWW SSWWWWWWWWWWWWWW WWWWSSWWSSWSSWEE NEEWWCEE WWWWWWWW	S			
3:30	WWNN	NEEEE			
3:45		ESEEE	E		
4:00		SSNN EEEENWE			
	18 (x1.5)= 27	13	(x1.5)=	(x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below





AGENDA STAFF REPORT

MEETING DATE: 3/23/2017	AGENDA SECTION: 3
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SUBJECT:

Crosswalk on Centennial Drive at the Softball Complex

RECOMMENDATION:

That a crosswalk not be placed on Centennial Drive at Softball Complex.

BACKGROUND:

Staff received a request from Commissioner asking if a crosswalk could be placed on Centennial Drive at the Softball Complex. It was stated that students are crossing in this area. To address this concern, staff conducted an intersection study of the location.

Centennial Drive is a north-south bound two-lane arterial street with a curb to curb width of 63 feet. This width is adequate for a single lane in each direction with room for street parking on both sides.

The speed limit on Centennial Drive is 45 MPH and the 85th percentile speed is 47 MPH. In the last five years, there have been 0 accidents reported. The sight stopping distance at the intersection is adequate for north and south bound traffic. There are no schools in this area. The nearest school, Sierra Pacific High School, is located on 13th Avenue.

A gap study was performed to determine the number of opportunities a pedestrian has to cross Centennial Drive in the morning and afternoon vehicle peak hours. Based on calculations, a pedestrian will take 16 seconds to cross Centennial Drive. The gap study shows that there are 6.0 opportunities in a 5 minute period during the peak vehicle hours for a pedestrian to safely cross the road.

Based on the crosswalk study this crosswalk location does not meet the basic warrants, Staff recommends that a crosswalk not be placed at this time. Attached is an aerial photo of the area,

warrant for pedestrian crosswalks, and the entering volume summary.

Respectfully submitted,

Shawn Dailey
Engineering Technician, II

FISCAL IMPACT:

ATTACHMENTS:

Study
aerial

LOCATION: CENTENNIAL DRIVE AT SOFTBALL COMPLEXWARRANTS FOR PEDESTRIAN CROSSWALKS

In order to qualify for a marked crosswalk, a location must: (A) meet the following basic warrants, and (B) rate 16 points or more under the following point system:

A) Basic WarrantsSATISFIEDPedestrian Volume Warrant

Yes No

Are there more than 20 pedestrians crossing during peak hour?

Crosswalks will not be installed where the pedestrian volume is less than 20 pedestrians per hour (pph) during the peak pedestrian hour.

☐☒Approach Speed Warrant**Is the 85 percentile less than 45 mph?**

Crosswalks will not be installed on roadways where the 85th percentile approach speeds are in excess of 45 mph. The approach speeds shall be determined by approved engineering speed study techniques. All crosswalks installed on roadways in excess of 40 mph will require additional safety improvements (ie. traffic-calming treatments, flashing beacons, and/or rapid flashings signs, etc.)

☐☒Visibility Warrant**Is visibility clear for 200'?**

Crosswalks will not be installed unless the motorist has an unrestricted view of all pedestrians at the proposed crosswalk site, for a distance not less than 200' approaching from each direction. Sites with grades, curves and other sight-restrictive features will require special attention.

☒☐Illumination Warrant

Proposed crosswalk site must have adequate crosswalk lighting in existence or scheduled for installation prior to the installation of the crosswalk.

☐☒**Is there adequate lighting at the site?**B) Warrant point system

Children under 13 years of age, adults over 64 years of age, or disabled persons count as 1.5 pedestrians.

Pedestrian Volume WarrantCriterion

Point Assignment
Pedestrian Total Points

The total number of pedestrians crossing the street under study during the peak pedestrian hour. This includes pedestrians in both crosswalks at an intersection.

Crosswalks will not be installed where the pedestrian volume is 20 pph or less.

0-20	0
21-40	2
41-60	4
61-90	6
91-100	8
Over 100	10
Maximum	10

Total
Pedestrians

Ø pts.

6

General Conditions Warrant

- (a) Will clarify and define pedestrian routes across a complex Intersection.
 (b) Will channelize pedestrians into a significantly shorter path.
 (c) Will position pedestrians to be seen better by motorists.
 (d) Will position pedestrians to expose them to fewer vehicles.
 (e) Is located within the Central Business District.
 (f) Is adjacent to a pedestrian generating facility (i.e. school, park, shopping district, etc.)

Points

2 ☐
 2 ☐
 2 ☐
 2 ☐
 2 ☐
 4 ☒

Maximum

10

4 pts.

Gap Time WarrantCriterionPoint Assignment

Average number of gaps
 per five-minute period Points

The number of unimpeded vehicle time gaps equal to or exceeding the required pedestrian crossing time (PCT) in an average five minute period during the peak vehicle hour.

0 – 0.99 10 ☐
 1 – 1.99 8 ☐
 2 – 2.99 6 ☐
 3 – 3.99 4 ☐
 4 – 4.99 2 ☐
 5 or over 0 ☒
 Maximum 10

0

Computations:

(1) Pedestrian crossing time = $\frac{\text{Street width curb to curb}}{4.0 \text{ feet per second}} = \frac{63'}{4} = 15.75$

(2) Average number of gaps per five-minute period = $\frac{\text{Total gaps/hr} > \text{required PCT}}{12} = \frac{72}{12} = 6.0$

Provisions:

- (1) The above criterion is based on a one hour field survey.
 (2) All roadways having a raised median or a painted median (4 foot minimum width) will be considered as two separate roadways, if the pedestrian has a protected place to stand out of the path of traffic.

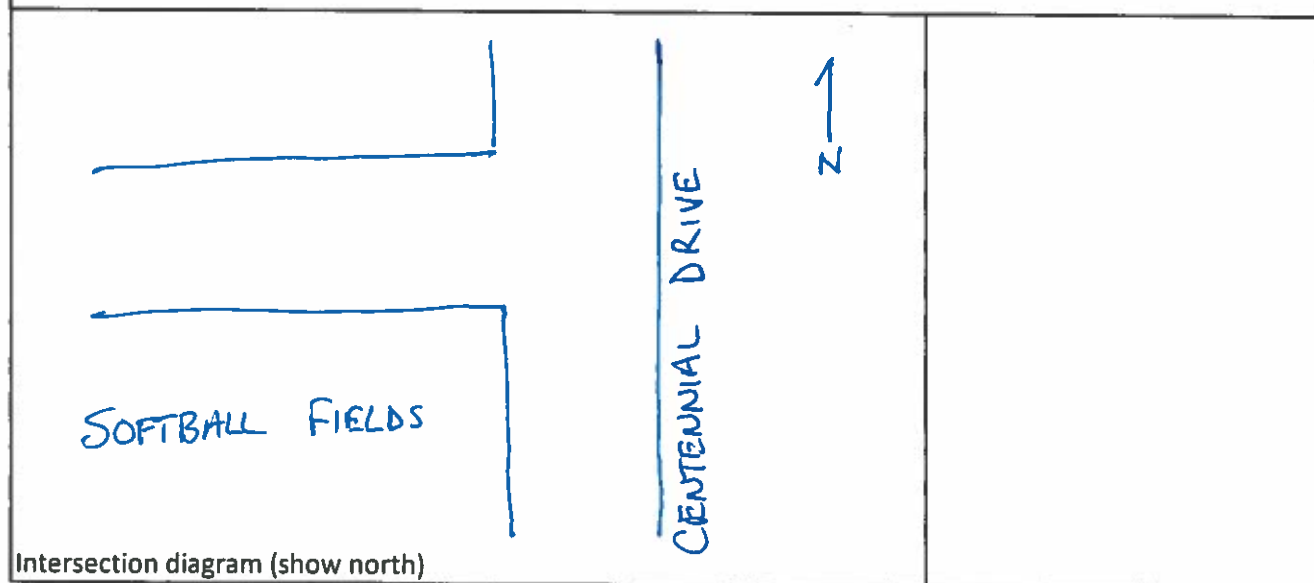
4 pts.

Weather CLR/DRY/SUNNY Time Interval (2 hours) 6-8 AMLocation CENTENNIAL DRIVE AT SOFTBALL FIELDS

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
6:15					
6:30					
6:45		NN			
7:00					
7:15		WNNS			
7:30		WWWW			
7:45		NN			
8:00					
	(x1.5)=	5	(x1.5)=	(x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below

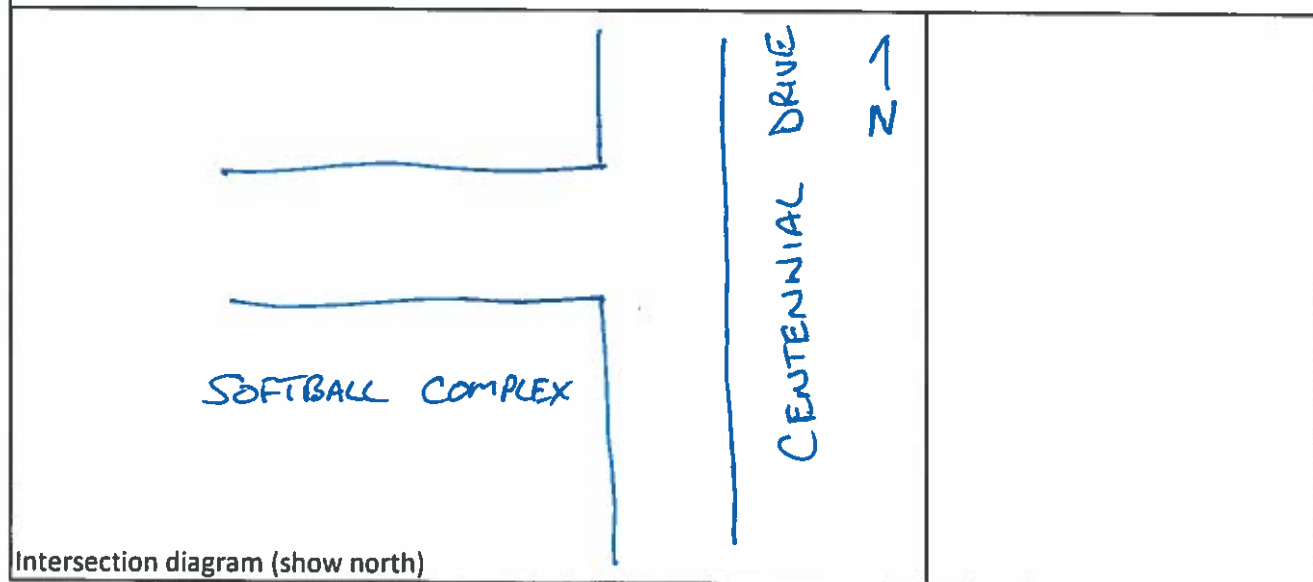


Weather CLR/DRY/SUNNY Time Interval (2 hours) 4-6 PM.Location CENTENNIAL DRIVE AT SOFTBALL FIELDS

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
4:15		NS			
4:30		EEESNE			
4:45		ESNNNS			
5:00		NS			
5:15		N			
5:30		NN			
5:45					
6:00		SE			
	(x1.5)=	6	(x1.5)=	(x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below



City of Hanford

900 S. 10th Avenue
Hanford, CA 93230Site Code: 046 FY16 NB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Start Time	Mon 04-Apr-16	Tue	Wed	Thu	Fri	Average Day	Sat	Sun	Week Average
12:00 AM	*	*	13	*	*	13	*	*	13
01:00	*	*	3	*	*	3	*	*	3
02:00	*	*	2	*	*	2	*	*	2
03:00	*	*	4	*	*	4	*	*	4
04:00	*	*	8	*	*	8	*	*	8
05:00	*	*	17	*	*	17	*	*	17
06:00	*	*	45	*	*	45	*	*	45
07:00	*	*	153	*	*	153	*	*	153
08:00	*	*	104	*	*	104	*	*	104
09:00	*	*	79	*	*	79	*	*	79
10:00	*	81	*	*	*	81	*	*	81
11:00	*	120	*	*	*	120	*	*	120
12:00 PM	*	121	*	*	*	121	*	*	121
01:00	*	127	*	*	*	127	*	*	127
02:00	*	174	*	*	*	174	*	*	174
03:00	*	193	*	*	*	193	*	*	193
04:00	*	148	*	*	*	148	*	*	148
05:00	*	227	*	*	*	227	*	*	227
06:00	*	158	*	*	*	158	*	*	158
07:00	*	169	*	*	*	169	*	*	169
08:00	*	117	*	*	*	117	*	*	117
09:00	*	102	*	*	*	102	*	*	102
10:00	*	30	*	*	*	30	*	*	30
11:00	*	20	*	*	*	20	*	*	20
Total	0	1787	428	0	0	2215	0	0	2215
% Avg. WkDay	0.0%	80.7%	19.3%	0.0%	0.0%	100.0%			
% Avg. Week	0.0%	80.7%	19.3%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	-	11:00	07:00	-	-	07:00	-	-	07:00
Vol.	-	120	153	-	-	153	-	-	153
PM Peak	-	17:00	-	-	-	17:00	-	-	17:00
Vol.	-	227	-	-	-	227	-	-	227
Total	0	1787	428	0	0	2215	0	0	2215
ADT	ADT 2,215		AADT 2,215						

City of Hanford

900 S. 10th Avenue
Hanford, CA 93230Site Code: 046 FY16 SB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Start Time	Mon 04-Apr-16	Tue	Wed	Thu	Fri	Average Day	Sat	Sun	Week Average
12:00 AM	*	*	12	*	*	12	*	*	12
01:00	*	*	2	*	*	2	*	*	2
02:00	*	*	2	*	*	2	*	*	2
03:00	*	*	2	*	*	2	*	*	2
04:00	*	*	14	*	*	14	*	*	14
05:00	*	*	25	*	*	25	*	*	25
06:00	*	*	46	*	*	46	*	*	46
07:00	*	*	153	*	*	153	*	*	153
08:00	*	*	198	*	*	198	*	*	198
09:00	*	*	87	*	*	87	*	*	87
10:00	*	94	*	*	*	94	*	*	94
11:00	*	106	*	*	*	106	*	*	106
12:00 PM	*	108	*	*	*	108	*	*	108
01:00	*	102	*	*	*	102	*	*	102
02:00	*	151	*	*	*	151	*	*	151
03:00	*	182	*	*	*	182	*	*	182
04:00	*	148	*	*	*	148	*	*	148
05:00	*	223	*	*	*	223	*	*	223
06:00	*	167	*	*	*	167	*	*	167
07:00	*	129	*	*	*	129	*	*	129
08:00	*	82	*	*	*	82	*	*	82
09:00	*	36	*	*	*	36	*	*	36
10:00	*	25	*	*	*	25	*	*	25
11:00	*	14	*	*	*	14	*	*	14
Total	0	1567	541	0	0	2108	0	0	2108
% Avg. WkDay	0.0%	74.3%	25.7%	0.0%	0.0%	100.0%			
% Avg. Week	0.0%	74.3%	25.7%	0.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	-	11:00	08:00	-	-	08:00	-	-	08:00
Vol.	-	106	198	-	-	198	-	-	198
PM Peak	-	17:00	-	-	-	17:00	-	-	17:00
Vol.	-	223	-	-	-	223	-	-	223
Total	0	1567	541	0	0	2108	0	0	2108
ADT	ADT 2,108		AADT 2,108						

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 NB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th	95th
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Percent	Percent
04/05/16																		
	01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	10:00	0	0	2	2	9	33	29	4	2	0	0	0	0	0	81	43	47
	11:00	1	0	0	2	7	48	45	17	0	0	0	0	0	0	120	44	48
	12 PM	1	0	0	2	13	52	43	9	1	0	0	0	0	0	121	44	47
	13:00	1	0	0	2	23	54	37	9	1	0	0	0	0	0	127	43	47
	14:00	1	0	0	4	21	84	58	6	0	0	0	0	0	0	174	43	44
	15:00	1	0	0	8	25	90	56	9	3	1	0	0	0	0	193	43	46
	16:00	0	0	0	2	13	57	56	20	0	0	0	0	0	0	148	44	48
	17:00	0	0	0	2	22	116	83	3	0	1	0	0	0	0	227	43	44
	18:00	1	0	0	3	19	59	59	16	1	0	0	0	0	0	158	44	47
	19:00	0	0	3	12	55	66	25	7	1	0	0	0	0	0	169	41	44
	20:00	0	0	0	3	36	52	20	5	1	0	0	0	0	0	117	42	45
	21:00	0	0	2	9	33	37	15	6	0	0	0	0	0	0	102	41	45
	22:00	0	0	0	0	3	8	12	6	1	0	0	0	0	0	30	47	49
	23:00	0	0	0	0	1	11	8	0	0	0	0	0	0	0	20	43	44
Total		6	0	7	51	280	767	546	117	11	2	0	0	0	0	1787		
Percent	0.3%		0.0%	0.4%	2.9%	15.7%	42.9%	30.6%	6.5%	0.6%	0.1%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00			10:00	10:00	10:00	11:00	11:00	11:00	10:00						11:00		
Vol.	1			2	2	9	48	45	17	2						120		
PM Peak	12:00			19:00	19:00	19:00	17:00	17:00	16:00	15:00						17:00		
Vol.	1			3	12	55	116	83	20	3	1					227		

Attachment: Study (1898 : Centennial-softball crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 NB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th	95th
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Percent	Percent
04/06/16		0	0	0	0	0	6	5	0	2	0	0	0	0	0	13	50	53
01:00		0	0	0	0	1	2	0	0	0	0	0	0	0	0	3	38	39
02:00		0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	39	39
03:00		0	0	0	0	0	2	0	2	0	0	0	0	0	0	4	48	49
04:00		0	0	0	0	0	2	3	3	0	0	0	0	0	0	8	48	49
05:00		0	0	0	0	4	4	8	0	0	1	0	0	0	0	17	44	55
06:00		0	0	0	1	9	14	13	7	1	0	0	0	0	0	45	45	49
07:00		1	0	0	0	6	57	71	16	2	0	0	0	0	0	153	44	48
08:00		0	0	0	2	20	39	30	12	1	0	0	0	0	0	104	44	48
09:00		1	0	0	0	12	34	26	4	2	0	0	0	0	0	79	43	47
10:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total		2	0	0	3	52	162	156	44	8	1	0	0	0	0	428		
Percent	0.5%	0.0%	0.0%	0.7%	12.1%	37.9%	36.4%	10.3%	1.9%	1.9%	0.2%	0.0%	0.0%	0.0%	0.0%			
AM Peak	07:00				08:00	08:00	07:00	07:00	07:00	00:00	05:00					07:00		
Vol.	1				2	20	57	71	16	2	1					153		
PM Peak																		
Vol.																		
Total	8	0	7	54	332	929	702	161	19	0.9%	0.1%	0.0%	0.0%	0.0%	0.0%	2215		
Percent	0.4%	0.0%	0.3%	2.4%	15.0%	41.9%	31.7%	7.3%	0.9%									

Stats
10 MPH Pace Speed : 36-45 MPH
Number in Pace : 1631
Percent in Pace : 73.6%
Number of Vehicles > 45 MPH : 183
Percent of Vehicles > 45 MPH : 8.3%
Mean Speed(Average) : 39 MPH

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 NB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1	1	5	7	9	11	13	15	17	19	21	23	25	27	29
Start Time	4	6	8	10	12	14	16	18	20	22	24	26	28	30
04/05/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	12	2	5	2	1	2	3	1	4	2	1	0	0	46
11:00	23	8	9	4	4	5	5	4	1	4	1	4	2	46
12 PM	27	6	6	5	4	1	4	5	7	2	2	2	6	44
13:00	26	11	4	6	3	5	7	5	4	2	4	0	1	49
14:00	45	8	9	7	7	8	5	12	5	4	7	4	6	47
15:00	45	18	15	13	13	11	6	8	7	2	6	4	1	44
16:00	36	10	4	3	5	9	4	9	8	6	6	4	3	41
17:00	67	28	16	13	10	11	3	8	4	4	10	3	5	45
18:00	32	12	12	7	5	6	3	9	4	7	7	3	3	48
19:00	38	20	16	9	10	7	10	4	5	1	2	2	3	42
20:00	17	10	11	9	2	4	2	1	1	2	4	3	4	47
21:00	13	4	6	4	7	7	1	3	6	2	2	2	3	42
22:00	1	0	1	0	0	0	0	0	1	0	1	0	1	25
23:00	1	0	1	1	0	0	0	0	0	0	1	0	1	15
Total	383	137	115	83	71	76	53	69	57	38	54	31	39	581

Attachment: Study (1898 : Centennial-softball crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 NB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1 Start Time	1		5		7		9		11		13		15		17		19		21		23		25		27		29		
	4	2	6	1	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
04/06/16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07:00	29	11	11	11	10	8	9	6	8	2	11	3	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
08:00	7	7	7	7	7	2	3	8	3	5	6	1	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
09:00	10	5	5	5	1	5	2	2	2	6	0	3	3	1	6	1	0	0	1	3	2	1	1	1	2	2	2	2	2
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	50	26	163	133	133	99	87	93	68	83	76	45	65	38	47	8	7	11	7	7	11	7	7	8	8	204	204	204	204
Grand Total	433	163	163	133	133	99	87	93	68	83	76	45	65	38	47	8	7	65	38	45	65	38	38	47	47	785	785	785	785

Attachment: Study (1898 : Centennial-softball crosswalk)

City of Hanford

900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 SB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent	95th Percent
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85			
04/05/16																		
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	0	0	0	0	1	26	46	16	3	1	1	1	0	0	0	94	47	50
11:00	0	0	0	0	8	18	52	21	6	0	1	1	0	0	0	106	47	51
12 PM	0	0	0	0	6	23	45	27	7	0	0	0	0	0	0	108	48	51
13:00	0	0	1	0	5	22	52	21	1	0	0	0	0	0	0	102	46	49
14:00	1	0	0	0	11	33	71	30	5	0	0	0	0	0	0	151	47	49
15:00	1	0	0	0	11	72	67	25	6	0	0	0	0	0	0	182	45	49
16:00	0	0	0	0	5	31	77	32	3	0	0	0	0	0	0	148	47	49
17:00	0	0	0	3	15	85	81	31	7	1	0	0	0	0	0	223	45	49
18:00	0	0	0	0	3	52	74	31	6	0	0	0	1	0	0	167	47	49
19:00	0	0	0	1	13	42	53	15	4	0	0	0	1	0	0	129	45	49
20:00	0	0	0	1	6	17	37	20	1	0	0	0	0	0	0	82	47	49
21:00	0	0	0	2	2	8	13	7	2	1	0	0	1	0	0	36	49	56
22:00	0	0	0	0	2	3	10	9	1	0	0	0	0	0	0	25	48	49
23:00	0	0	0	0	0	5	7	2	0	0	0	0	0	0	0	14	44	48
Total	2	0	1	7	88	437	685	287	52	3	2	2	3	0	0	1567		
Percent	0.1%	0.0%	0.1%	0.4%	5.6%	27.9%	43.7%	18.3%	3.3%	0.2%	0.1%	0.1%	0.2%	0.0%	0.0%			
AM Peak					11:00	10:00	11:00	11:00	11:00	10:00	10:00	10:00				11:00		
Vol.					8	26	52	21	6	1	1	1				106		
PM Peak	14:00		13:00	17:00	17:00	17:00	17:00	16:00	12:00	17:00			18:00			17:00		
Vol.	1		1	3	15	85	81	32	7	1			1			223		

Attachment: Study (1898 : Centennial-softball crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 SB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent	95th Percent
Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85			
04/06/16	0	0	0	0	0	2	6	3	1	0	0	0	0	0	0	12	48	51
01:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	48	49
02:00	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	43	44
03:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	48	49
04:00	0	0	0	0	0	0	7	4	2	1	0	0	0	0	0	14	52	56
05:00	0	0	0	0	0	3	12	8	2	0	0	0	0	0	0	25	48	51
06:00	0	0	0	0	1	8	22	9	6	0	0	0	0	0	0	46	49	53
07:00	0	0	0	0	1	17	55	64	11	3	2	0	0	0	0	153	49	53
08:00	1	0	0	1	7	43	91	43	10	1	1	0	0	0	0	198	47	51
09:00	0	0	0	1	6	25	37	14	4	0	0	0	0	0	0	87	46	49
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	1	0	0	2	15	101	231	147	36	5	3	0	0	0	0	541		
Percent	0.2%	0.0%	0.0%	0.4%	2.8%	18.7%	42.7%	27.2%	6.7%	0.9%	0.6%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00			08:00	08:00	08:00	08:00	07:00	07:00	07:00	07:00					08:00		
PM Peak	1			1	7	43	91	64	11	3	2					198		
Vol.																		
Vol.																		
Total	3	0	1	9	103	538	916	434	88	8	5	3	0	0	0	2108		
Percent	0.1%	0.0%	0.0%	0.4%	4.9%	25.5%	43.5%	20.6%	4.2%	0.4%	0.2%	0.1%	0.0%	0.0%	0.0%			

Stats		10 MPH Pace Speed :		36-45 MPH	
		Number in Pace :		1454	
		Percent in Pace :		69.0%	
		Number of Vehicles > 45 MPH :		538	
		Percent of Vehicles > 45 MPH :		25.5%	
		Mean Speed(Average) :		43 MPH	

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 SB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1		1	5	7	9	11	13	15	17	19	21	23	25	27	29
Start Time	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
04/05/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	9	7	3	1	1	3	1	2	5	4	5	4	2	2	47
11:00	12	9	5	2	9	4	3	4	2	3	2	3	1	1	47
12 PM	18	6	7	4	6	3	5	1	3	1	3	3	3	3	45
13:00	20	4	4	4	5	2	5	2	1	2	2	2	3	2	46
14:00	46	12	7	13	3	6	3	5	5	2	4	1	1	0	44
15:00	77	11	7	4	12	8	3	7	2	2	2	4	5	4	36
16:00	49	8	8	5	3	7	3	5	0	4	4	3	3	2	48
17:00	88	13	14	9	8	11	7	3	3	5	5	3	2	5	52
18:00	56	11	7	10	7	8	1	2	5	8	8	2	2	4	44
19:00	32	13	2	4	1	4	2	7	0	4	4	2	7	5	46
20:00	14	3	4	4	0	4	1	1	0	0	0	3	1	3	44
21:00	0	0	2	1	2	1	0	0	0	1	1	0	2	0	27
22:00	2	0	0	0	0	0	1	0	0	2	2	0	0	1	19
23:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13
Total	423	98	70	61	57	61	35	39	26	38	33	36	32	32	558

Attachment: Study (1898 : Centennial-softball crosswalk)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: 046 FY16 SB
Centennial Dr. s. of Grangeville Blvd.
Date Start: 05-Apr-16

Direction 1	1	5	7	9	11	13	15	17	19	21	23	25	27	29
Start	4	6	8	10	12	14	16	18	20	22	24	26	28	999
Time														
04/06/16	0	0	0	0	1	0	0	0	0	0	0	0	0	11
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:00	1	0	0	0	0	0	1	0	0	0	0	0	0	12
05:00	2	0	0	2	0	0	2	0	0	0	0	0	0	19
06:00	4	1	1	1	0	2	2	1	0	0	2	0	1	31
07:00	45	5	15	5	5	6	5	2	5	2	7	3	0	48
08:00	62	12	11	7	10	3	9	10	10	3	6	6	4	45
09:00	13	5	2	2	4	2	5	5	3	1	3	2	1	39
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	127	23	29	17	20	13	24	18	18	6	18	11	6	211
Grand Total	550	121	99	78	77	74	59	57	44	44	51	47	38	769

Attachment: Study (1898 : Centennial-softball crosswalk)

CITY OF HANFORD

Public Works - Engineering

Location : Centennial Dr. s. of Grangeville Blvd.

Station : 46

Weather : Clear & Dry

Start Date : 04/05/16

Operator : SPD

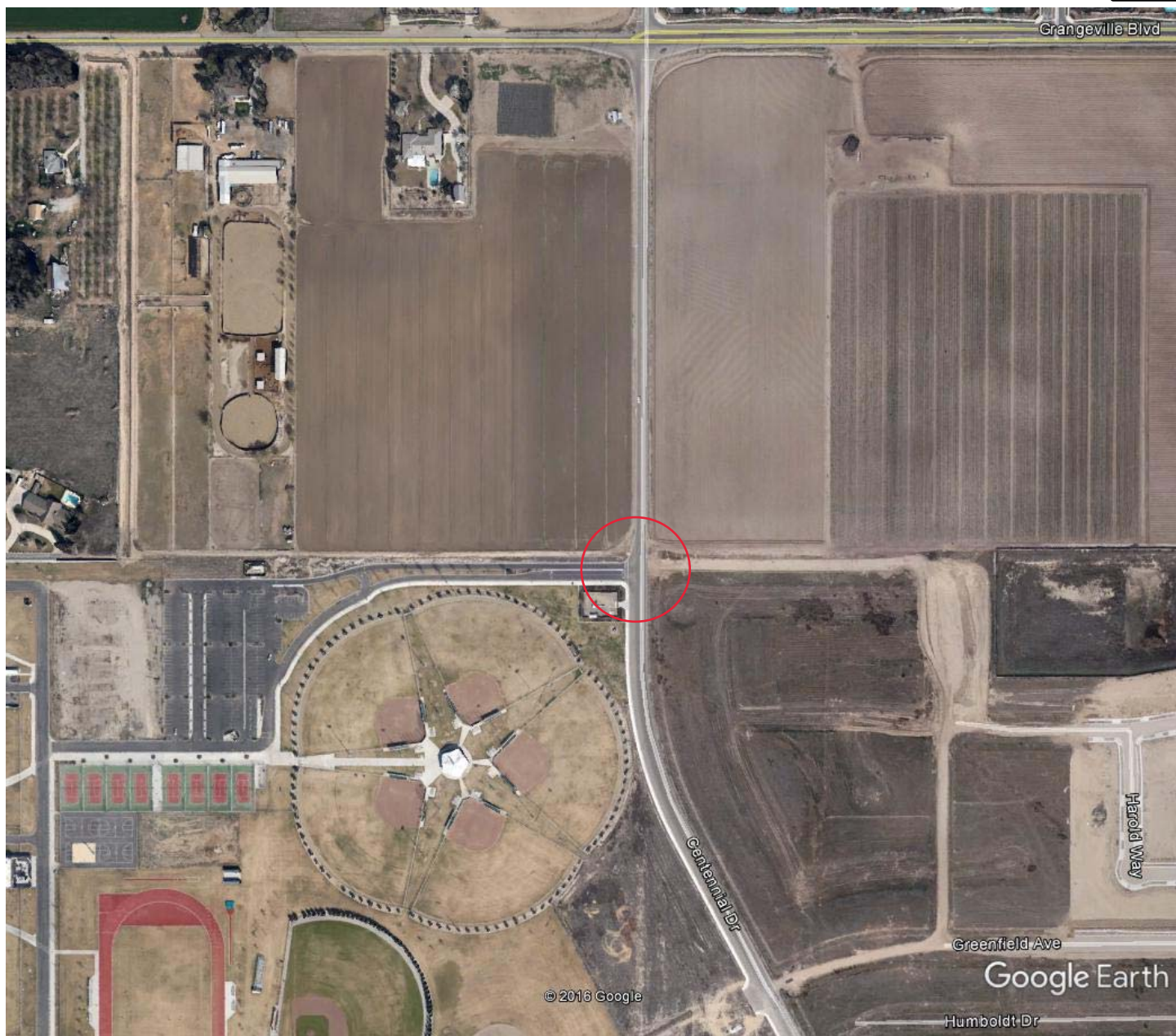
Day : Tuesday

Begin Time	NB	SB	EB	WB	Total
12:00 AM	13	12	0	0	25
1:00	3	2	0	0	5
2:00	2	2	0	0	4
3:00	4	2	0	0	6
4:00	8	14	0	0	22
5:00	17	25	0	0	42
6:00	45	46	0	0	91
7:00	153	153	0	0	306
8:00	104	198	0	0	302
9:00	79	87	0	0	166
10:00	81	94	0	0	175
11:00	120	106	0	0	226
12:00 PM	121	108	0	0	229
1:00	127	102	0	0	229
2:00	174	151	0	0	325
3:00	193	182	0	0	375
4:00	148	148	0	0	296
5:00	227	223	0	0	450
6:00	158	167	0	0	325
7:00	169	129	0	0	298
8:00	117	82	0	0	199
9:00	102	36	0	0	138
10:00	30	25	0	0	55
11:00	20	14	0	0	34

Daily Totals	2,215	2,108	4,323	0	0	0	4,323
Split %	51.2	48.8		0.0	0.0		

AM Peak 7:00 am
Volume 306

PM Peak 5:00 pm
Volume 450



Google Earth



Attachment: aerial (1898 : Centennial-softball crosswalk)



AGENDA STAFF REPORT

MEETING DATE: 3/23/2017	AGENDA SECTION: 4
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SUBJECT:

Flashing Beacons on Harris Street Crossing at Saint Rose McCarthy School

RECOMMENDATION

That a Flashing Beacons not be placed at the crosswalk on Harris Street at Saint Rose McCarthy School.

DISCUSSION

Staff received a request from Ronnie Wrest asking if flashing beacons could be placed at the crosswalk located on Harris Street at Saint Rose McCarthy School. Mr. Wrest stated that students are crossing at various times of the day all day. To address this concern, staff conducted an intersection study of the location.

Harris Street is a north-south bound two-lane residential street with a curb to curb width of 36 feet. This width is adequate for a single lane in each direction with room for street parking. The speed limit on Harris Street is prima facie 25 MPH. The 85th percentile speed on Harris Street is 28 MPH. The sight stopping distance at the crossing is adequate for north and south bound traffic.

This crosswalk is unique in that the school uses adult crossing guards as well as teachers to cross their students. The crossing guards and teachers check traffic before continuing and then the students cross in groups of 15 to 25 at a time. The crossings do occur at various times all day.

The warrant for a flashing beacon was checked, and the crosswalk does not meet the warrant based on low vehicle volume, Staff recommends that Flashing beacons not be placed at this time.

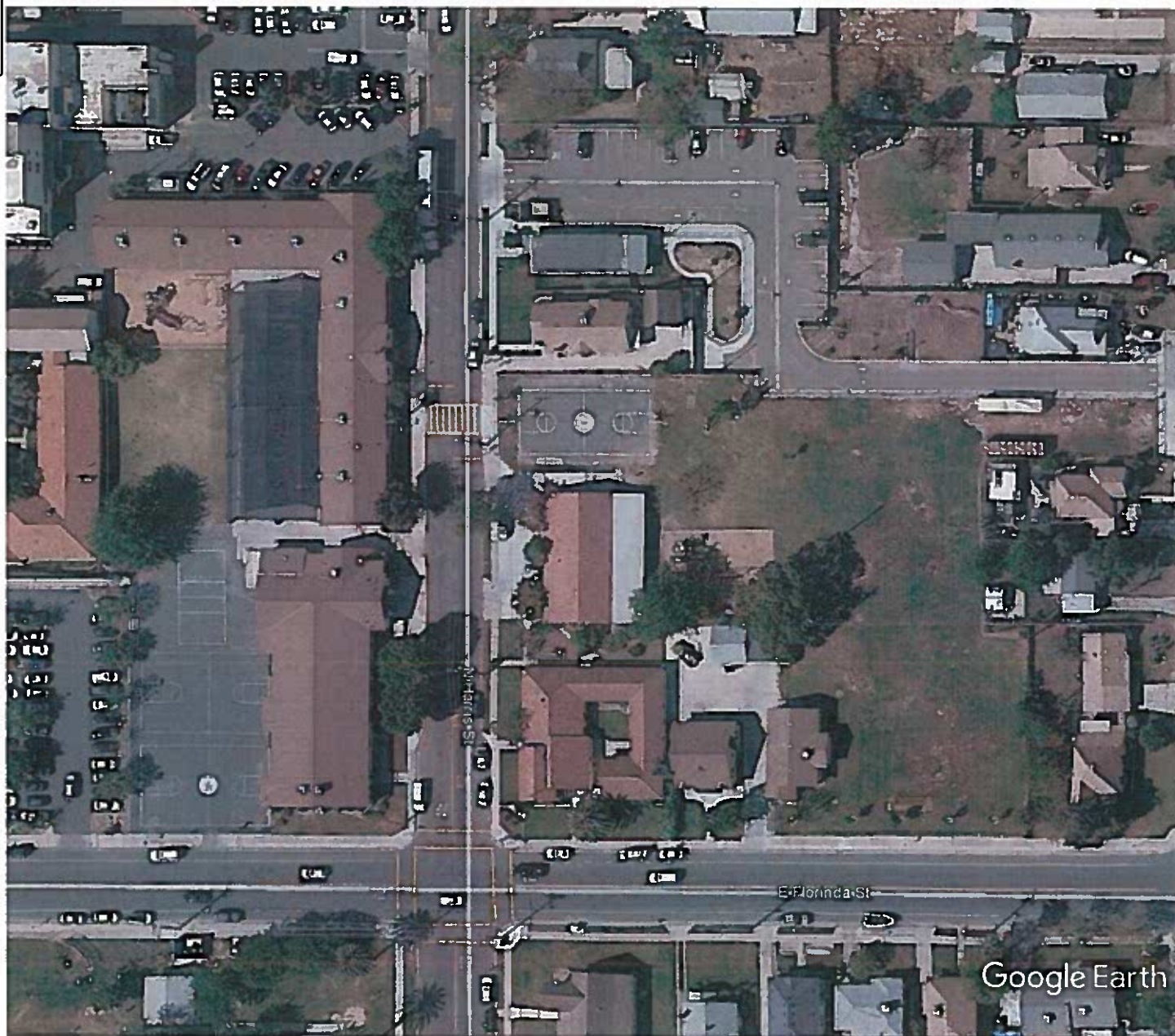
Attached is an aerial photo of the area, warrant for flashing beacon, pedestrian counts and the entering volume summary.

Respectfully submitted,

Shawn Dailey
Engineering Technician, II

FISCAL IMPACT:

ATTACHMENTS:



Google Earth



City of Hanford900 S. 10th Avenue
Hanford, CA 93230Site Code: HARRIS ST NB
Harris St at McCarthy School
Date Start: 22-Feb-17

Start Time	Mon 20-Feb-17	Tue	Wed	Thu	Fri	Average Day	Sat	Sun	Week Average
12:00 AM	*	*	*	3	*	3	*	*	3
01:00	*	*	*	2	*	2	*	*	2
02:00	*	*	*	1	*	1	*	*	1
03:00	*	*	*	2	*	2	*	*	2
04:00	*	*	*	2	*	2	*	*	2
05:00	*	*	*	3	*	3	*	*	3
06:00	*	*	*	9	*	9	*	*	9
07:00	*	*	*	7	*	7	*	*	7
08:00	*	*	*	104	*	104	*	*	104
09:00	*	*	*	85	*	85	*	*	85
10:00	*	*	68	*	*	68	*	*	68
11:00	*	*	70	*	*	70	*	*	70
12:00 PM	*	*	75	*	*	75	*	*	75
01:00	*	*	85	*	*	85	*	*	85
02:00	*	*	72	*	*	72	*	*	72
03:00	*	*	91	*	*	91	*	*	91
04:00	*	*	136	*	*	136	*	*	136
05:00	*	*	109	*	*	109	*	*	109
06:00	*	*	108	*	*	108	*	*	108
07:00	*	*	48	*	*	48	*	*	48
08:00	*	*	25	*	*	25	*	*	25
09:00	*	*	24	*	*	24	*	*	24
10:00	*	*	10	*	*	10	*	*	10
11:00	*	*	11	*	*	11	*	*	11
Total	0	0	932	218	0	1150	0	0	1150
% Avg. WkDay	0.0%	0.0%	81.0%	19.0%	0.0%	100.0%			
% Avg. Week	0.0%	0.0%	81.0%	19.0%	0.0%	100.0%	0.0%	0.0%	
AM Peak	-	-	11:00	08:00	-	08:00	-	-	08:00
Vol.	-	-	70	104	-	104	-	-	104
PM Peak	-	-	16:00	-	-	16:00	-	-	16:00
Vol.	-	-	136	-	-	136	-	-	136
Total	0	0	932	218	0	1150	0	0	1150
ADT	ADT 1,151		AADT 1,151						

City of Hanford900 S. 10th Avenue
Hanford, CA 93230Site Code: HARRIS ST SB
Harris St at McCarthy School
Date Start: 22-Feb-17

Start Time	Mon 20-Feb-17	Tue	Wed	Thu	Fri	Average Day	Sat	Sun	Week Average
12:00 AM	*	*	*	7	*	7	*	*	7
01:00	*	*	*	3	*	3	*	*	3
02:00	*	*	*	1	*	1	*	*	1
03:00	*	*	*	2	*	2	*	*	2
04:00	*	*	*	1	*	1	*	*	1
05:00	*	*	*	1	*	1	*	*	1
06:00	*	*	*	7	*	7	*	*	7
07:00	*	*	*	11	*	11	*	*	11
08:00	*	*	110	*	*	110	*	*	110
09:00	*	*	*	54	*	54	*	*	54
10:00	*	*	55	*	*	55	*	*	55
11:00	*	75	*	*	*	75	*	*	75
12:00 PM	*	*	67	*	*	67	*	*	67
01:00	*	*	70	*	*	70	*	*	70
02:00	*	*	62	*	*	62	*	*	62
03:00	*	*	64	*	*	64	*	*	64
04:00	*	143	*	*	*	143	*	*	143
05:00	*	*	125	*	*	125	*	*	125
06:00	*	*	119	*	*	119	*	*	119
07:00	*	*	43	*	*	43	*	*	43
08:00	*	*	16	*	*	16	*	*	16
09:00	*	*	11	*	*	11	*	*	11
10:00	*	*	11	*	*	11	*	*	11
11:00	*	*	7	*	*	7	*	*	7
Total	0	0	868	197	0	1065	0	0	1065
% Avg. WkDay	0.0%	0.0%	81.5%	18.5%	0.0%	100.0%			
% Avg. Week	0.0%	0.0%	81.5%	18.5%	0.0%	100.0%	0.0%	0.0%	
AM Peak	-	-	11:00	08:00	-	08:00	-	-	08:00
Vol.	-	-	75	110	-	110	-	-	110
PM Peak	-	-	16:00	-	-	16:00	-	-	16:00
Vol.	-	-	143	-	-	143	-	-	143
Total	0	0	868	197	0	1065	0	0	1065
ADT	ADT 1,034		AADT 1,034						

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST NB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent	95th Percent
	15	20	25	30	35	40	45	50	55	60	65	70	75	999			
02/22/17																	
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	11	18	22	14	3	0	0	0	0	0	0	0	0	0	68	27	29
11:00	7	17	30	12	4	0	0	0	0	0	0	0	0	0	70	27	30
12 PM	22	13	13	22	2	3	0	0	0	0	0	0	0	0	75	28	33
13:00	14	19	28	18	6	0	0	0	0	0	0	0	0	0	85	28	31
14:00	10	17	27	11	7	0	0	0	0	0	0	0	0	0	72	28	32
15:00	27	17	17	22	7	1	0	0	0	0	0	0	0	0	91	28	32
16:00	61	40	18	16	1	0	0	0	0	0	0	0	0	0	136	24	28
17:00	32	23	18	26	10	0	0	0	0	0	0	0	0	0	109	28	32
18:00	52	17	23	14	2	0	0	0	0	0	0	0	0	0	108	24	28
19:00	0	6	14	16	10	1	1	0	0	0	0	0	0	0	48	32	34
20:00	1	2	7	7	7	1	0	0	0	0	0	0	0	0	25	33	34
21:00	1	1	10	10	2	2	0	0	0	0	0	0	0	0	24	29	31
22:00	0	1	1	7	1	0	0	0	0	0	0	0	0	0	10	29	32
23:00	1	1	2	3	3	1	0	0	0	0	0	0	0	0	11	33	37
Total	239	192	230	198	65	7	1	0	0	0	0	0	0	0	932		
Percent	25.6%	20.6%	24.7%	21.2%	7.0%	0.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	10:00	10:00	11:00	10:00	11:00										11:00		
Vol.	11	18	30	14	4										70		
PM Peak	16:00	16:00	13:00	17:00	17:00	12:00	19:00								16:00		
Vol.	61	40	28	26	10	3	1								136		

Attachment: report (1902 : Beacons-St. Rose McCarthy)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST NB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total	85th Percent	95th Percent
02/23/17	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3	28	29
01:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	33	34
02:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	29	29
03:00	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	28	29
04:00	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	43	44
05:00	0	0	1	1	0	0	1	0	0	0	0	0	0	0	3	42	44
06:00	0	3	2	2	1	1	0	0	0	0	0	0	0	0	9	33	37
07:00	1	2	1	3	0	0	0	0	0	0	0	0	0	0	7	28	29
08:00	44	18	17	16	8	1	0	0	0	0	0	0	0	0	104	27	32
09:00	22	25	20	12	6	0	0	0	0	0	0	0	0	0	85	27	31
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	68	48	43	39	16	2	2	0	0	0	0	0	0	0	218		
Percent	31.2%	22.0%	19.7%	17.9%	7.3%	0.9%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	09:00	09:00	08:00	08:00	06:00	04:00								08:00		
Vol.	44	25	20	16	8	1	1								104		

PM Peak

		Vol.																											
Total	Percent	307	240	273	237	81	9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1150
		26.7%	20.9%	23.7%	20.6%	7.0%	0.8%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Stats

10 MPH Pace Speed : 16-25 MPH
Number in Pace : 513
Percent in Pace : 44.6%
Number of Vehicles > 25 MPH : 330
Percent of Vehicles > 25 MPH : 28.7%
Mean Speed(Average) : 20 MPH

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST SB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1

Start Time	15	16	20	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th Percent	95th Percent
02/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	7	19	19	19	6	4	0	0	0	0	0	0	0	0	0	55	26	31
11:00	21	28	20	20	5	1	0	0	0	0	0	0	0	0	0	75	23	27
12 PM	25	24	13	13	5	0	0	0	0	0	0	0	0	0	0	67	23	26
13:00	23	12	28	28	6	1	0	0	0	0	0	0	0	0	0	70	24	27
14:00	8	28	18	18	6	2	0	0	0	0	0	0	0	0	0	62	24	29
15:00	18	24	13	13	9	0	0	0	0	0	0	0	0	0	0	64	24	28
16:00	77	42	18	18	5	1	0	0	0	0	0	0	0	0	0	143	20	24
17:00	65	27	23	23	10	0	0	0	0	0	0	0	0	0	0	125	23	26
18:00	72	23	16	16	7	1	0	0	0	0	0	0	0	0	0	119	21	26
19:00	4	5	19	19	10	5	0	0	0	0	0	0	0	0	0	43	29	32
20:00	1	2	7	7	6	0	0	0	0	0	0	0	0	0	0	16	28	29
21:00	0	2	3	3	5	1	0	0	0	0	0	0	0	0	0	11	29	32
22:00	0	1	3	3	7	0	0	0	0	0	0	0	0	0	0	11	28	29
23:00	0	2	0	0	4	1	0	0	0	0	0	0	0	0	0	7	29	33
Total	321	239	200	200	91	17	0	0	0	0	0	0	0	0	0	868		
Percent	37.0%	27.5%	23.0%	23.0%	10.5%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	11:00	11:00	11:00	11:00	10:00	10:00										11:00		
Vol.	21	28	20	20	6	4										75		
PM Peak	16:00	16:00	13:00	13:00	17:00	19:00										16:00		
Vol.	77	42	28	28	10	5										143		

Attachment: report (1902 : Beacons-St. Rose McCarthy)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST SB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1		1	16	21	26	31	36	41	46	51	56	61	66	71	76	Total	85th	95th
Start	Time	15	20	25	30	35	40	45	50	55	60	65	70	75	999		Percent	Percent
02/23/17	0	3	1	3	3	0	0	0	0	0	0	0	0	0	0	7	28	29
01:00	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	3	27	29
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	24	24
03:00	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	28	29
04:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	44	44
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	19	19
06:00	0	1	1	1	3	2	0	0	0	0	0	0	0	0	0	7	32	34
07:00	0	2	1	7	7	1	0	0	0	0	0	0	0	0	0	11	29	32
08:00	61	13	20	13	13	3	0	0	0	0	0	0	0	0	0	110	24	29
09:00	19	16	13	4	4	2	0	0	0	0	0	0	0	0	0	54	24	29
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	82	37	37	32	32	8	0	1	0	0	0	0	0	0	0	197		
Percent	41.6%	18.8%	18.8%	16.2%	16.2%	4.1%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
AM Peak	08:00	09:00	08:00	08:00	08:00	08:00		04:00								08:00		
Vol.	61	16	20	13	13	3		1								110		
PM Peak																		
Vol.																		

Total	403	276	237	123	25	25	0	1	0	0	0	0	0	0	0	1065
Percent	37.8%	25.9%	22.3%	11.5%	2.3%	2.3%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Stats

10 MPH Pace Speed : 16-25 MPH

Number in Pace : 513

Percent in Pace : 48.2%

Number of Vehicles > 25 MPH : 149

Percent of Vehicles > 25 MPH : 14.0%

Mean Speed(Average) : 17 MPH

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST NB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1		1	5	7	9	11	13	15	17	19	21	23	25	27	29
Start Time	4	6	8	10	12	14	16	18	20	22	24	26	28	30	
02/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	5	2	5	4	2	1	1	2	2	2	2	3	1	36	36
11:00	15	2	0	2	2	2	4	1	2	2	0	2	2	3	34
12 PM	14	5	1	4	0	1	1	0	1	1	4	2	2	0	40
13:00	13	6	2	1	2	4	3	1	3	3	2	1	0	2	45
14:00	8	3	5	1	3	4	0	4	4	3	1	0	1	2	37
15:00	15	4	5	0	4	1	5	2	3	3	1	2	1	2	46
16:00	31	8	7	12	5	3	8	2	5	0	2	8	9	36	36
17:00	22	5	6	5	7	3	3	6	1	3	3	2	2	2	41
18:00	24	9	3	6	2	1	3	3	3	0	6	2	3	3	43
19:00	2	1	4	2	1	0	0	0	2	1	1	1	2	2	31
20:00	0	2	0	0	0	0	0	0	0	0	1	0	1	1	21
21:00	1	0	1	1	0	0	0	0	0	0	0	0	0	0	21
22:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9
23:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10
Total	150	48	39	39	28	20	28	21	25	14	20	23	27	450	

90

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST NB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1 Start Time	1	5	7	9	11	13	15	17	19	21	23	25	27	29
	4	6	8	10	12	14	16	18	20	22	24	26	28	999
02/23/17	0	0	0	0	0	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	8
07:00	0	0	0	0	0	0	0	0	0	0	0	0	1	6
08:00	22	10	7	4	3	6	3	1	0	1	6	1	3	37
09:00	20	3	2	4	1	2	1	3	0	2	2	0	0	45
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	43	13	9	8	4	8	4	4	0	3	8	1	4	109
Grand Total	193	61	48	47	32	28	32	25	25	17	28	24	31	559

65

Attachment: report (1902 : Beacons-St. Rose McCarthy)

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST SB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1 Start Time	1		5		7		9		11		13		15		17		19		21		23		25		27		29	
	4	*	6	*	8	*	10	*	12	*	14	*	16	*	18	*	20	*	22	*	24	*	26	*	28	*	999	*
02/22/17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	4	*	5	*	2	*	1	*	2	*	0	*	1	*	1	*	0	*	2	*	1	*	1	*	1	*	34	*
11:00	8	*	4	*	6	*	3	*	0	*	0	*	4	*	2	*	2	*	2	*	3	*	0	*	1	*	40	*
12 PM	10	*	3	*	3	*	1	*	1	*	1	*	0	*	3	*	1	*	1	*	2	*	1	*	1	*	40	*
13:00	7	*	4	*	3	*	1	*	3	*	2	*	0	*	3	*	1	*	2	*	0	*	1	*	4	*	40	*
14:00	8	*	2	*	1	*	1	*	3	*	1	*	3	*	0	*	3	*	2	*	0	*	2	*	0	*	34	*
15:00	5	*	2	*	1	*	0	*	2	*	4	*	2	*	4	*	3	*	3	*	1	*	2	*	1	*	34	*
16:00	38	*	15	*	7	*	8	*	4	*	7	*	5	*	3	*	2	*	4	*	1	*	4	*	3	*	42	*
17:00	27	*	7	*	8	*	5	*	10	*	1	*	3	*	5	*	3	*	4	*	5	*	1	*	4	*	42	*
18:00	31	*	5	*	9	*	6	*	5	*	0	*	3	*	0	*	4	*	1	*	5	*	4	*	3	*	43	*
19:00	1	*	0	*	3	*	1	*	0	*	1	*	3	*	0	*	0	*	2	*	1	*	2	*	1	*	28	*
20:00	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	16	*
21:00	0	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	10	*
22:00	0	*	0	*	0	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	10	*
23:00	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	7	*
Total	139		47		44		27		31		17		24		21		18		24		19		18		19		420	

63

City of Hanford
900 S. 10th Avenue
Hanford, CA 93230

Site Code: HARRIS ST SB
Harris St at McCarthy School
Date Start: 22-Feb-17

Direction 1	1	5	7	9	11	13	15	17	19	21	23	25	27	29
Start Time	4	6	8	10	12	14	16	18	20	22	24	26	28	999
02/23/17	0	0	0	0	0	0	0	1	0	0	0	0	0	6
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	7
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	11
08:00	23	10	3	4	7	5	6	5	2	3	2	1	4	35
09:00	6	3	2	4	0	1	2	1	0	2	0	1	0	32
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	29	13	5	8	7	6	8	7	2	5	2	2	4	99
Grand Total	168	60	49	35	38	23	32	28	20	29	21	20	23	519

74

CITY OF HANFORD

Public Works - Engineering

Location : Harris St. at McCarthy School
 Weather : Clear & Dry
 Operator : SPD

Station : 0
 Start Date : 02/22/17
 Day : Wednesday

Begin Time	NB	SB	EB	WB	Total
12:00 AM	3	7			10
1:00	2	3			5
2:00	1	1			2
3:00	2	2			4
4:00	2	1			3
5:00	3	1			4
6:00	9	7			16
7:00	7	11			18
8:00	104	110			214
9:00	85	54			139
10:00	68	55			123
11:00	70	75			145
12:00 PM	75	67			142
1:00	85	70			155
2:00	72	62			134
3:00	91	64			155
4:00	136	143			279
5:00	109	125			234
6:00	108	119			227
7:00	48	43			91
8:00	25	16			41
9:00	24	11			35
10:00	10	11			21
11:00	11	7			18
Daily Totals	1,150	1,065	0	0	2,215
Split %	51.9	48.1	0.0	0.0	

AM Peak 8:00 am
 Volume 214

PM Peak 4:00 pm
 Volume 279

Weather CLR/DRY/SUNNY Time Interval (2 hours) 7-9 AM
 Location HARRIS ST AT ST. ROSE MCCARTHY

Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
7:15		EWE			
7:30		WEW			
7:45	EEWWWWNWEWEE WWWWNENWWWWWW WWWEWENWWWW WWWWNUNWEE	ENEEEENWENW WEWEWE			
8:00	(W-21)EW(W-11)	WWEWWWWWW EWEEW			
8:15		WE		WE	
8:30	(E-13)(E-15)(E-24)	NEEEEF			
8:45	(E-9)	EEEEWW			
	143 (x1.5)= 214.5	53	(x1.5)=	2 3 (x1.5)=	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below

Intersection diagram (show north)

Weather CLR/DRY/SUNNY Time Interval (2 hours) 2-4 PMLocation HARRIS ST. AT ST. ROSE MCCARTHY

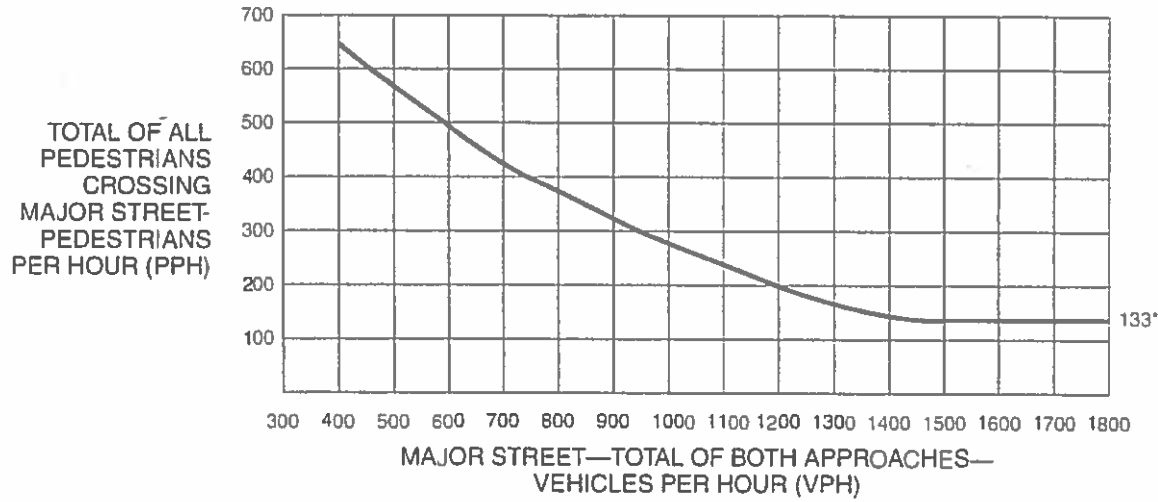
Time (15 minute interval)	Children (thru middle school)	High School & Adults	Seniors (64+)	Disabled	Total Counts
2:15	(W-15) (E-20) (E-7) (W-20)	WEEW			
2:30	E (E-15)	WWEWEE			
2:45	(E-5) WW(W-15)	EWEEW		E	
3:00	(W-7) E	W EEEEEEW			
3:15	W(E-24) WEEEEEE EEEEEWEE (E-6) NE WEEEEEE (W-5) WWWW EEFWEEWW	EEEW WWWW			
3:30	EE WEE	W WEEE			
3:45	W	WW			
	198 (x1.5)= 297	38	(x1.5)=	1 (x1.5)= 1.5	

- count and designate which leg of the intersection is being crossed in the boxes above with a N, S, E, or W

- draw and label intersection below

Intersection diagram (show north)

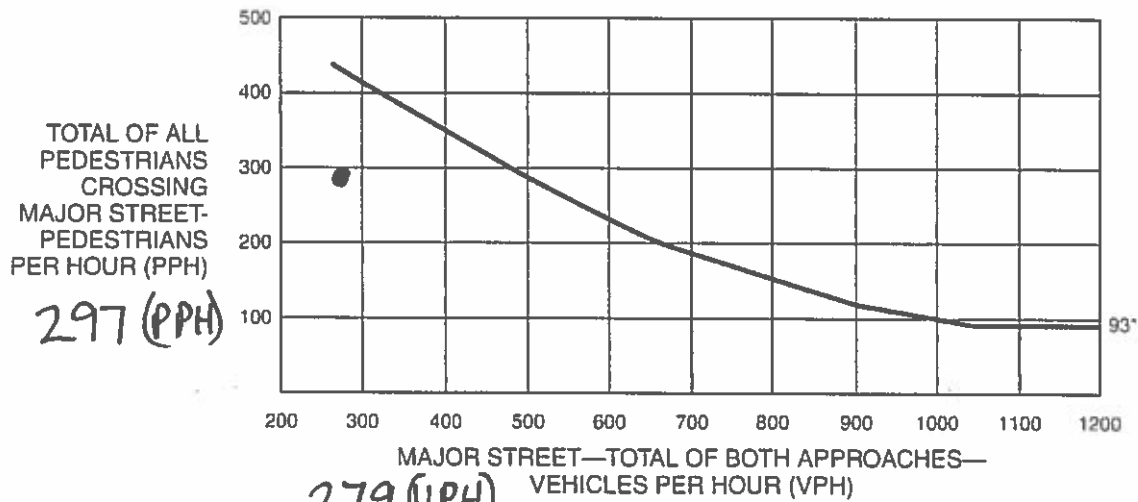
Figure 4C-7. Warrant 4, Pedestrian Peak Hour



*Note: 133 pph applies as the lower threshold volume.

2/22/17

Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



*Note: 93 pph applies as the lower threshold volume.



**AGENDA
STAFF REPORT**

MEETING DATE: 3/23/2017

AGENDA SECTION:

SUBJECT:
City Council Actions

FISCAL IMPACT:

ATTACHMENTS:

CITY COUNCIL ACTIONS

Special Meeting of February 2, 2017

None to report

Special Meeting of February 3, 2017

None to report

Special Meeting of February 6, 2017

None to report

Meeting February 7, 2017

None to report

Meeting February 21, 2017

None to report

Meeting March 7, 2017

1. Award contract to Agee Construction Corporation, of Clovis, CA for the Sixth Street Parking Lot Improvement Project.