FINAL REPORT

2011 ENGINEERING AND TRAFFIC SURVEYS

For

CITY OF BANNING

Prepared by

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For

CITY OF BANNING
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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May 2012

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EXECUTIVE SUMMARY

The 2011 Engineering and Traffic Surveys report provides the basis for the certification of the speed limits of radar enforceable speed zones in the City of Banning, California. The purpose of this report is to recertify the speed limits established by the City in November 2006. A total of forty-six (46) speed zones have been surveyed, of which forty-two (42) existing speed zones were recertified between July and September 2011. Three (3) additional speed zones were added in October 2011 and a special speed zone was established in December 2011 during the study process. The scope of speed surveys and speed zone limits are shown in Table 1. Table 2, Speed Zone Survey Summary, summarizes the results of the speed surveys and the recertification of the forty-six (46) speed zones. Individual engineering and traffic surveys and speed zone location maps are presented in the Appendix.

California Vehicle Code (CVC) Section 40801 prohibits the use of any evidence by a peace officer collected in a "speed trap." CVC Section 40802 defines a speed trap and set requirements for the establishment of a speed limit. One of the requirements is the use of an "Engineering and Traffic Survey" of the speed zone to establish the speed limit to be enforced with radar or other electronic means. The procedures used in the 2011 engineering and traffic speed surveys for City of Banning conform to the requirements stated in CVC Section 627. The speed limits established and recertified in this report do not constitute as "speed trap" and they are enforceable by radar or other electronic means that are authorized by the City of Banning.

The results of 2011 Engineering and Traffic Surveys reveal that the majority of the existing speed limits and speed zones remain the same as they were established in 2006. The three (3) new speed zones added include Alessandro Road both north and south of Wilson Street and the extended coverage of Hargrave Street from Ramsey to Wesley Streets. Sun Lakes Boulevard between Highland Springs Avenue and Country Club Drive was the special speed zone added to examine if a lower speed limit would be warranted to accommodate the slow-moving golf carts driven by senior local residents in mixed traffic flow to and from shopping centers nearby.

The speed limits along Highland Springs Avenue were reconciled with City of Beaumont during the recertification process. It is agreed that the speed limits for Highland Springs Avenue between two jurisdictions should be made identical for both northbound and southbound directions for consistency and effective enforcement purposes. Therefore, a 50 mph speed limit for segment north of Wilson Street to North City Limit and a 35 mph speed limit for segment south of Wilson Street to the South City Limit have been recommended for both Cities to consider.

The resulting speed limit changes between 2006 and 2011 speed surveys and the recommended speed limit certification of 2011 are summarized in the following tables for City Council approval and adoption.

RECOMMENDED SPEED LIMIT CHANGES
May 2012

ZONE	Street Name	From	To	EXISTING POSTED SPEED		PROPOSED SPEED	
				NB	**SB**	**NB**	**SB**
6	Mountain Ave	Mockingbird Lane	Wilson St	40	40	**35**	**35**
7	Highland Springs Ave (Northbound)	N. City Limit	Oak Valley Pkwy	50	55 (Beaumont)	50	**50*** (Beaumont)
8	Highland Springs Ave (Northbound)	Oak Valley Pkwy	Wilson St	50	55 (Beaumont)	50	**50*** (Beaumont)
9	Highland Springs Ave (Northbound)	Wilson St	Sun Lakes Bl	30	30 (Beaumont)	**35**	**35* (**Beaumont)
10	Highland Spring Ave (Northbound)	Sun Lakes Bl	S. City Limit	35	30 (Beaumont)	35	**35* (**Beaumont)
11	San Gorgonio Ave	Lombardy Lane	Wilson St	35	35	**30**	**30**
12	San Gorgonio Ave	Wilson St	Ramsey St	25	25	**30**	**30**
13	San Gorgonio Ave	Ramsey St	Lincoln St	25	25	**30**	**30**
17	Hargrave Street	Wesley St	Ramsey St	n/a	n/a	**35**	**35**
19	Alessandro Rd	Repplier Rd	Wilson St	35	35	**30**	**30**
20	Alessandro Rd	Wilson St	Ramsey St	30	25	**30**	**30**
				EB	**WB**	**EB**	**WB**
27	Ramsey St	Sunset Ave	22nd St	35	35	**40**	**40**
28	Ramsey St	22nd St	8th St	35	35	**40**	**40**
37	Wilson St	Sunset Ave	16th St	35	35	**45**	**45**

(*) – City of Beaumont has agreed to keep speed limits consistent with City of Banning

2011 SPEED LIMIT RECERTIFICATION

Banning, California

(P. 1/2)

No	Street Name	From	To	RECOMMENDED SPEED NB	RECOMMENDED SPEED SB
1	8th St	Gilman St	I-10	**30**	**30**
2	22nd St	Ramsey St	Westward Ave	**35**	**35**
3	Highland Home Road	Wilson St	Ramsey St	**40**	**40**
4	Hathaway St	Hoffer St	Ramsey St	**35**	**35**
5	Hathaway St	Lincoln St	Wesley St	**35**	**35**
6	Mountain Ave	Mockingbird Lane	Wilson St	**35**	**35**
7	Highland Springs Ave (Northbound)	N. City Limit	Oak Valley Pkwy	**50**	**50*** Beaumont
8	Highland Springs Ave (Northbound)	Oak Valley Pkwy	Wilson St	**50**	**50*** Beaumont
9	Highland Springs Ave (Northbound)	Wilson St	Sun Lakes Bl	**35**	**35*** Beaumont
10	Highland Spring Ave (Northbound)	Sun Lakes Bl	S. City Limit	**35**	**35*** Beaumont
11	San Gorgonio Ave	Lombardy Lane	Wilson St	**30**	**30**
12	San Gorgonio Ave	Wilson St	Ramsey St	**30**	**30**
13	San Gorgonio Ave	Ramsey St	Lincoln St	**30**	**30**
14	Sunset Ave	Wilson St	Ramsey St	**35**	**35**
15	Sunset Ave	Ramsey St	Westward Ave	**35**	**35**
16	Hargrave St	Wilson St	Ramsey St	**30**	**30**
17	Hargrave St	Ramsey St	Wesley St	**35**	**35**
18	Omar St	Ramsey St	Wilson St	**25**	**25**
19	Alessandro Rd	Repplier Rd	Wilson St	**30**	**30**
20	Alessandro Rd	Wilson St	Ramsey St	**30**	**30**

(*) - City of Beaumont has agreed to keep speed limits consistent with City of Banning

2011 SPEED LIMIT RECERTIFICATION

Banning, California

No	Street Name	From	To	RECOMMENDED SPEED	
				EB	WB
21	Lincoln St	Sunset Ave	22nd St	**40**	**40**
22	Lincoln St	22nd St	8th St	**40**	**40**
23	Lincoln St	8th St	San Gorgonio Ave	**40**	**40**
24	Lincoln St	San Gorgonio Ave	Hathaway St	**40**	**40**
25	Ramsey St	Highland Springs Ave	Highland Home Rd	**50**	**50**
26	Ramsey St	Highland Home Rd	Sunset Ave	**50**	**50**
27	Ramsey St	Sunset Ave	22nd St	**40**	**40**
28	Ramsey St	22nd St	8th St	**40**	**40**
29	Ramsey St	8th St	Hargrave St	**25**	**25**
30	Ramsey St	Hargrave St	I-10 Ramps	**40**	**40**
31	Nicolet St	Sunset Ave	22nd St	**35**	**35**
32	Nicolet St	22nd St	4th St	**35**	**35**
33	Nicolet St	4th St	Hargrave St	**25**	**25**
34	Nicolet St	Hargrave St	Hathaway St	**25**	**25**
35	Wilson St	Highland Springs Ave	Highland Home Rd	**45**	**45**
36	Wilson St	Highland Home Rd	Sunset Ave	**45**	**45**
37	Wilson St	Sunset Ave	16th St	**45**	**45**
38	Wilson St	16th St	San Gorgonio Ave	**35**	**35**
39	Wilson St	San Gorgonio Ave	Hargrave St	**35**	**35**
40	Sun Lakes Bl	Country Club Drive	Highland Home Rd	**35**	**35**
41	Westward Ave	Sunset Ave	San Gorgonio Ave	**35**	**35**
42	Williams St	Sunset Ave	Hathaway St	**25**	**25**
43	George St	Sunset Ave	Woodland Ave	**25**	**25**
44	George St	20th St	8th St	**25**	**25**
45	George St	8th St	San Gorgonio Ave	**25**	**25**
46	Sun Lakes Bl	Highland Springs Ave	Country Club Drive	**35**	**35**

2011 ENGINEERING AND TRAFFIC SURVEYS

For

CITY OF BANNING, CALIFORNIA

I. INTRODUCTION

In compliance with the State of 2011 California Vehicle Code (CVC) Sections 40801, 40802 and 627, engineering and traffic surveys were conducted to recertify the existing forty-two (42) speed zones previously approved in November 2006. This report represents a five (5) year update of the radar enforceable speed zones in the City of Banning. A total of forty-two (42) existing speed zones and four (4) additional speed zones in the City of Banning have been surveyed, certified and documented in this report.

The CVC requires that posted speed limits on the streets of a community be based upon measurements of prevailing speeds, reviews of the accident data, and a rational evaluation of roadway and roadside conditions before radar or any other electronic means can be used for speed enforcement.

Generally speaking, traffic laws that reflect the behavior of the majority of motorists are found to be most successful. Laws that arbitrarily restrict the majority of drivers encourage intentional violations, lack public support and usually fail to bring about desirable changes in driving behavior. This is especially true of speed limits posted on public streets. The report presents the findings and recommendations of the engineering and traffic surveys and provides the basis for radar speed limit enforcements.

II. SCOPE OF SPEED SURVEYS

The streets surveyed and their current posted speed limits are summarized in Table 1, Scope of Speed Surveys. A total of nineteen (19) city streets were selected by the City Police and Public Works Departments. Some streets are divided into shorter segments, speed zones, due to differences in roadway and traffic characteristics. The scope of speed surveys consists of a total of forty-six (46) speed zones. They are listed as follows:

Zone 1: 8th Street from Gilman Street to I – 10 Interchange

Zone 2: 22nd Street from Ramsey Street to Westward Avenue

Zone 3: Highland Home Road from Wilson Street to Ramsey Street

Zone 4: Hathaway Street from Hoffer Street to Ramsey Street

Zone 5: Hathaway Street from Lincoln Street to Wesley Street

Zone 6: Mountain Avenue from Mockingbird Lane to Wilson Street

Zone 7: Highland Springs Avenue from N. City Limit to Oak Valley Parkway

Zone 8: Highland Springs Avenue from Oak Valley Parkway to Wilson Street

Zone 9: Highland Springs Avenue from Wilson Street to Sun Lakes Boulevard

Zone 10: Highland Springs Avenue from Sun Lakes Boulevard to S. City Limit

Zone 11: San Gorgonio Avenue from Lombardy Lane to Wilson Street

Zone 12: San Gorgonio Avenue from Wilson Street to Ramsey Street

Zone 13: San Gorgonio Avenue from Ramsey Street to Lincoln Street

Zone 14: Sunset Avenue from Wilson Street to Ramsey Street

Zone 15: Sunset Avenue from Ramsey Street to Westward Avenue

Zone 16: Hargrave Street from Wilson Street to Ramsey Street

Zone 17: Hargrave Street from Ramsey Street to Wesley Street

Zone 18: Omar Street from Ramsey Street to Wilson Street

Zone 19: Alessandro Road from Repplier Street to Wilson Street

Zone 20: Alessandro Road from Wilson Street to Ramsey Street

Zone 21: Lincoln Street from Sunset Avenue to 22nd Street

Zone 22: Lincoln Street from 22nd Street to 8th Street

Zone 23: Lincoln Street from 8th Street to San Gorgonio Avenue

Zone 24: Lincoln Street from San Gorgonio Avenue to Hathaway Street

Zone 25: Ramsey Street from Highland Springs Avenue to Highland Home Road

Zone 26: Ramsey Street from Highland Home Road to Sunset Avenue

Zone 27: Ramsey Street from Sunset Avenue to 22nd Street

Zone 28: Ramsey Street from 22nd Street to 8th Street

Zone 29: Ramsey Street from 8th Street to Hargrave Street

Zone 30: Ramsey Street from Hargrave Street to I-10 Ramp

Zone 31: Nicolet Street from Sunset Avenue to 22nd Street

Zone 32: Nicolet Street from 22nd Street to 4th Street

Zone 33: Nicolet Street from 4th Street to Hargrave Street

Zone 34: Nicolet Street from Hargrave Street to Hathaway Street

Zone 35: Wilson Street from Highland Springs Avenue to Highland Home Road

Zone 36: Wilson Street from Highland Home Road to Sunset Avenue

Zone 37: Wilson Street from Sunset Avenue to 16th Street

Zone 38: Wilson Street from 16th Street to San Gorgonio Avenue

Zone 39: Wilson Street from San Gorgonio Avenue to Hargrave Street

Zone 40: Sun Lakes Boulevard from Country Club Drive to Highland Home Road

Zone 41: Westward Avenue from Sunset Avenue to San Gorgonio Avenue

Zone 42: Williams Street from Sunset Avenue to Hathaway Street

Zone 43: George Street from Sunset Avenue to Woodland Avenue

Zone 44: George Street from 20th Street to 8th Street

Zone 45: George Street from 8th Street to San Gorgonio Avenue

Zone 46: Sun Lakes Boulevard from Highland Springs Avenue to Country Club Drive

III. STUDY PROCEDURE

This study followed the procedures and requirements described in CVC Section 627 and California MUTCD 2010.

A fixed-mount radar, model KR-10SP made by Kustom Signals, Inc. and a hand held radar from Banning Police Department were used for conducting the speed surveys. Both radar units were properly calibrated and tested by the field engineer before the surveys. Speed survey locations were selected to avoid the influences of traffic signal and stop controls. All speed measures were conducted between July and September, 2011 during free-flow conditions inside an unmarked vehicle. Field speed measurements are recorded to obtain critical speeds, pace speeds and other statistic speed data.

Since traffic accident reports in recent years are not available from the City, it was decided that the traffic accident information used in the 2006 speed zone survey is still a valid representation of the current traffic conditions and will be utilized in the 2011 speed zone update.

Traffic volumes were compiled from the latest recorded volumes obtained from the City and traffic counts conducted by recent traffic impact study reports. Roadway conditions and characteristics were compiled from field observations and recorded documents.

Accident data, traffic volumes, and roadway conditions and characteristics were used as references to determine proper speed limits.

IV. ESTABLISHING SPEED ZONES

The purpose of speed zoning is to establish proper and realistic speed limits to:

- Encourage voluntary compliance by a majority of drivers,
- Provide an enforcement tool that effectively separates the occasional violator from the reasonable majority,
- Facilitate the safe and orderly traffic flow.

Two measurements extracted from the speed survey data are key to the establishment of reasonable speed limits – the 85th Percentile Speed and the Pace Speed. Speed limits are established at or near the 85th Percentile Speed, which is defined as that speeds at or below which 85 percent of the traffic is moving. The 85th Percentile Speed is often referred to as the Critical Speed or the Prevailing Speed.

Pace Speed is defined as the 10 mph increment of speed containing the largest number of observed vehicles. The lower limit of the pace is plotted on the Speed Zone Survey Sheets as an aid in determining the proper zone limits.

Unless accident history or unexpected roadway and/or roadside conditions dictate otherwise, speed limits should be set at or near the Critical Speed. Speed limits established on the basis of the 85th Percentile Speed conform to the consensus of those who drive roadways as to what speed is reasonable and prudent, and are not dependent on the judgment of one or a few individuals.

Speed limits higher than the 85th Percentile Speed are not generally considered reasonable nor prudent. Speed limits below the 85th Percentile Speed do not ordinarily facilitate the orderly movement of traffic and require constant enforcement to maintain compliance.

V. SPEED ZONE SURVEY RESULTS

Table 2, Speed Zone Survey Summary, summarizes the existing posted speed limits; the surveyed Critical Speeds, Pace Speeds; and the proposed speed limits for each speed zone. It consists of the data that was obtained during the engineering and traffic survey of each radar enforceable speed zone.

VI. ENGINEERING AND TRAFFIC SURVEY DATA AND MAPS

Table 3 summarizes accident data, traffic volumes, and roadway characteristics. The Engineering and Traffic Survey data and location maps for each speed zone are presented in the Appendix. The Appendix can be used as a quick reference in response to inquiries while determining the official speed limits on a particular public street in the City.

Table 1 - SCOPE OF SPEED SURVEYS

No.	SPEED ZONE LIMITS			EXISTING SPEED	
	Street Name	From	To	NB	SB
1	8th St	Gilman St	I-10	30	30
2	22nd St	Ramsey St	Westward Ave	35(*)	35(*)
3	Highland Home Road	Wilson St	Ramsey St	40(*)	40(*)
4	Hathaway St	Hoffer St	Ramsey St	35	35(*)
5	Hathaway St	Lincoln St	Wesley St	35(*)	35
6	Mountain Ave	Mockingbird Lane	Wilson St	40(*)	40(*)
7	Highland Springs Ave (Northbound)	Oak Valley Pkwy	N. City Limit	50	55 Beaumont
8	Highland Springs Ave (Northbound)	Oak Valley Pkwy	Wilson St	50	55 Beaumont
9	Highland Springs Ave (Northbound)	Wilson St	Sun Lakes Bl	30	30 Beaumont
10	Highland Spring Ave (Northbound)	Sun Lakes Bl	S. City Limit	35	30 Beaumont
11	San Gorgonio Ave	Lombardy Lane	Wilson St	35	35
12	San Gorgonio Ave	Wilson St	Ramsey St	25(*)	25
13	San Gorgonio Ave	Ramsey St	Lincoln St	25(*)	25(*)
14	Sunset Ave	Wilson St	Ramsey St	35	35
15	Sunset Ave	Ramsey St	Westward Ave	35(*)	35
16	Hargrave St	Wilson St	Ramsey St	30(*)	30(*)
17	Hargrave St	Ramsey St	Wesley St	35	35
18	Omar St	Ramsey St	Wilson St	25(*)	25(*)
19	Alessandro Rd	Repplier Rd	Wilson St	35	35
20	Alessandro Rd	Wilson St	Ramsey St	30	25
				EB	**WB**
21	Lincoln St	Sunset Ave	22nd St	40	40
22	Lincoln St	22nd St	8th St	40	40
23	Lincoln St	8th St	San Gorgonio Ave	40	40
24	Lincoln St	San Gorgonio Ave	Hathaway St	40	40
25	Ramsey St	Highland Springs Ave	Highland Home Rd	50	50
26	Ramsey St	Highland Home Rd	Sunset Ave	50	50
27	Ramsey St	Sunset Ave	22nd St	35	35
28	Ramsey St	22nd St	8th St	35	35
29	Ramsey St	8th St	Hargrave St	25	25
30	Ramsey St	Hargrave St	I-10 Ramps	40(*)	40(*)
31	Nicolet St	Sunset Ave	22nd St	35	35
32	Nicolet St	22nd St	4th St	35	35
33	Nicolet St	4th St	Hargrave St	25	25
34	Nicolet St	Hargrave St	Hathaway St	25	25
35	Wilson St	Highland Springs Ave	Highland Home Rd	45	45
36	Wilson St	Highland Home Rd	Sunset Ave	45	45
37	Wilson St	Sunset Ave	16th St	35	35
38	Wilson St	16th St	San Gorgonio Ave	35	35
39	Wilson St	San Gorgonio Ave	Hargrave St	35	35
40	Sun Lakes Bl	Contry Club Drive	Highland Home Rd	35	35
41	Westward Ave	Sunset Ave	San Gorgonio Ave	35	35
42	Williams St	Sunset Ave	Hathaway St	25	25
43	George St	Sunset Ave	Woodland Ave	25	25
44	George St	20th St	8th St	25	25
45	George St	8th St	San Gorgonio Ave	25	25
46	Sun Lakes Bl	Highland Springs Ave	Contry Club Drive	35	35

(*) - Speed Limit Sign Missing

Table 2 - Speed Zone Survey Summary

No	Street Name	From	To	EXISTING POST SPEED		CRITICAL SPEED (85th Percentile Speed)		10 MPH PACE SPEED				RECOMMENDED SPEED	
				NB	SB	NB	SB	NB	%	SB	%	NB	SB
1	8th St	Gilman St	I-10	30	30	34	35	25-34	84	24-33	76	**30**	**30**
2	22nd St	Ramsey St	Westward Ave	35(*)	35(*)	36	37	29-38	89	29-38	92	**35**	**35**
3	Highland Home Road	Wilson St	Ramsey St	40(*)	40(*)	41	40	32-41	76	32-41	85	**40**	**40**
4	Hathaway St	Hoffer St	Ramsey St	35	35(*)	39	39	31-40	73	30-39	79	**35**	**35**
5	Hathaway St	Lincoln St	Wesley St	35(*)	35(*)	39	38	31-40	85	29-38	84	**35**	**35**
6	Mountain Ave	Mockingbird Lane	Wilson St	40(*)	40(*)	39	39	30-39	81	32-41	88	**35**	**35**
7	Highland Springs Ave (Northbound)	N. City Limit	Oak Valley Pkwy	50	55 Beaumont	54	Beaumont	47-56	76	Beaumont	Beaumont	**50**	**50** (**) Beaumont
8	Highland Springs Ave (Northbound)	Oak Valley Pkwy	Wilson St	50	55 Beaumont	51	Beaumont	41-50	66	Beaumont	Beaumont	**50**	**50** (**) Beaumont
9	Highland Springs Ave (Northbound)	Wilson St	Sun Lakes Bl	30	30 Beaumont	35	Beaumont	26-35	82	Beaumont	Beaumont	**35**	**35** (**) Beaumont
10	Highland Spring Ave (Northbound)	Sun Lakes Bl	S. City Limit	35	30 Beaumont	38	Beaumont	30-39	86	Beaumont	Beaumont	**35**	**35** (**) Beaumont
11	San Gorgonio Ave	Lombardy Lane	Wilson St	35	35	34	34	26-35	89	26-35	91	**30**	**30**
12	San Gorgonio Ave	Wilson St	Ramsey St	25(*)	25	30	30	22-31	93	23-32	92	**30**	**30**
13	San Gorgonio Ave	Ramsey St	Lincoln St	25(*)	25(*)	33	33	25-34	91	26-35	92	**30**	**30**
14	Sunset Ave	Wilson St	Ramsey St	35	35	39	38	32-41	89	31-40	82	**35**	**35**
15	Sunset Ave	Ramsey St	Westward Ave	35(*)	35	38	38	29-38	81	30-39	87	**35**	**35**
16	Hargrave St	Wilson St	Ramsey St	30(*)	30(*)	34	34	26-35	87	27-36	84	**30**	**30**
17	Hargrave St	Ramsey St	Wesley St	35	35	34	34	26-35	81	26-35	82	**35**	**35**
18	Omar St	Ramsey St	Wilson St	25(*)	25(*)	29	31	22-31	91	22-31	87	**25**	**25**
19	Alessandro Rd	Repplier Rd	Wilson St	35	35	30	30	22-31	88	23-32	88	**30**	**30**
20	Alessandro Rd	Wilson St	Ramsey St	30	25	30	31	22-31	90	24-33	90	**30**	**30**

(*) - Speed Limit Sign Missing

(**) - City of Beaumont has agreed to keep speed limits consistent with City of Banning

Table 2 - Speed Zone Survey Summary (Continued)

No	Street Name	From	To	EXISTING POST SPEED		CRITICAL SPEED (85th Percentile Speed)		10 MPH PACE SPEED				RECOMMENDED SPEED	
				EB	WB	EB	WB	EB	%	WB	%	EB	WB
21	Lincoln St	Sunset Ave	22nd St	40	40	43	43	34-43	76	32-41	74	**40**	**40**
22	Lincoln St	22nd St	8th St	40	40	44	43	34-43	75	34-43	80	**40**	**40**
23	Lincoln St	8th St	San Gorgonio Ave	40	40	43	43	34-43	76	35-44	76	**40**	**40**
24	Lincoln St	San Gorgonio Ave	Hathaway St	40	40	42	43	30-39	67	34-43	78	**40**	**40**
25	Ramsey St	Highland Springs Ave	Highland Home Rd	50	50	53	52	44-53	70	41-50	73	**50**	**50**
26	Ramsey St	Highland Home Rd	Sunset Ave	50	50	53	53	45-54	73	43-52	65	**50**	**50**
27	Ramsey St	Sunset Ave	22nd St	35	35	41	41	32-41	85	32-41	77	**40**	**40**
28	Ramsey St	22nd St	8th St	35	35	41	40	31-40	77	31-40	79	**40**	**40**
29	Ramsey St	8th St	Hargrave St	25	25	33	32	27-36	89	25-34	89	**25**	**25**
30	Ramsey St	Hargrave St	I-10 Ramps	40(*)	40(*)	40	42	32-41	87	30-39	70	**40**	**40**
31	Nicolet St	Sunset Ave	22nd St	35	35	39	38	30-39	73	28-37	76	**35**	**35**
32	Nicolet St	22nd St	4th St	35	35	39	38	29-38	73	28-37	73	**35**	**35**
33	Nicolet St	4th St	Hargrave St	25	25	29	29	22-31	92	22-31	91	**25**	**25**
34	Nicolet St	Hargrave St	Hathaway St	25	25	28	28	21-30	92	22-31	91	**25**	**25**
35	Wilson St	Highland Springs Ave	Highland Home Rd	45	45	48	50	38-47	72	40-49	65	**45**	**45**
36	Wilson St	Highland Home Rd	Sunset Ave	45	45	49	49	40-49	74	37-46	63	**45**	**45**
37	Wilson St	Sunset Ave	16th St	35	35	46	45	36-45	67	35-44	73	**45**	**45**
38	Wilson St	16th St	San Gorgonio Ave	35	35	35	36	27-36	80	27-36	74	**35**	**35**
39	Wilson St	San Gorgonio Ave	Hargrave St	35	35	37	38	27-36	71	29-38	69	**35**	**35**
40	Sun Lakes Bl	Country Club Drive	Highland Home Rd	35	35	38	38	28-37	76	30-39	73	**35**	**35**
41	Westward Ave	Sunset Ave	San Gorgonio Ave	35	35	38	38	28-37	77	28-37	72	**35**	**35**
42	Williams St	Sunset Ave	Hathaway St	25	25	28	29	21-30	91	21-30	88	**25**	**25**
43	George St	Sunset Ave	Woodland Ave	25	25	29	29	21-30	89	21-30	88	**25**	**25**
44	George St	20th St	8th St	25	25	29	29	21-30	89	22-31	88	**25**	**25**
45	George St	8th St	San Gorgonio Ave	25	25	29	29	23-32	95	22-31	88	**25**	**25**
46	Sun Lakes Bl	Highland Springs Ave	Country Club Drive	35	35	28	28	21-30	96	22-31	97	**35**	**35**

(*) - Speed Limit Sign Missing

Table 3 - Engineering and Traffic Survey Data Summary

No	Street Name	From	To	Traffic Volumes (ADT)	N0. of Accidents 07/01/05 to 06/30/06	Roadway Characteristics Length (Mile)	Width (ft)	Hrz. Alignment	Roadside
1	8th St	Gilman St	I-10	7,300	29	1.0	44	Tangent	Urban Residential, Some Open/Agriculture
2	22nd St	Ramsey St	Westward Ave	8,300	13	0.5	86	Tangent	Urban Residential, Some Open/Agriculture
3	Highland Home Road	Wilson St	Ramsey St	3,300	3	0.4	86	Curved/Tangent	Urban residential, control access points, no direct driveways
4	Hathaway St	Hoffer St	Ramsey St	2,700	4	0.6	40	Tangent	Rural residential, industrial, open/agriculture
5	Hathaway St	Lincoln St	Wesley St	2,400	2	0.8	30	Tangent	Rural residential, industrial, open/agriculture
6	Mountain Ave	Mockingbird Lane	Wilson St	1,600	0	2.0	40	Tangent	Rural Residential, Open
7	Highland Springs Ave (Northbound)	Oak Valley Pkwy	N. City Limit	2,100	0	1.3	40	Tangent	Open/agriculture
8	Highland Springs Ave (Northbound)	Oak Valley Pkwy	Wilson St	3,000	3	0.75	64	Tangent	Rural residential with open/agriculture
9	Highland Springs Ave (Northbound)	Wilson St	Sun Lakes Bl	13,700	34	0.5	64	Tangent	Urban commercial
10	Highland Spring Ave (Northbound)	Sun Lakes Bl	S. City Limit	1,800	0	2.0	40	Curved/Tangent	Rural Open
11	San Gorgonio Ave	Lombardy Lane	Wilson St	2,100	2	0.8	44	Tangent	Urban Residential
12	San Gorgonio Ave	Wilson St	Ramsey St	3,300	5	0.5	44	Tangent	Urban Residential
13	San Gorgonio Ave	Ramsey St	Lincoln St	3,300	4	0.25	44	Tangent	Urban Commercial
14	Sunset Ave	Wilson St	Ramsey St	12,400	5	0.5	64	Tangent	Urban Residential/Commercial
15	Sunset Ave	Ramsey St	Westward Ave	10,500	16	0.5	44	Tangent	Rural Commercial
16	Hargrave St	Wilson St	Ramsey St	6,100	4	0.25	44	Tangent	Urban Residential
17	Hargrave St	Ramsey St	Wesley St	N/A	N/A	0.9	40	Tangent	Open/Mixed use
18	Omar St	Ramsey St	Wilson St	1,600	0	0.5	40	Tangent	Rural Residential
19	Alessandro Rd	Repplier Rd	Wilson St	N/A	N/A	0.6	36	Tangent	Urban Residential
20	Alessandro Rd	Wilson St	Ramsey St	N/A	N/A	0.5	36	Tangent	Urban Residential
21	Lincoln St	Sunset Ave	22nd St	2,500	2	0.6	64	Tangent	Rural Residential
22	Lincoln St	22nd St	8th St	2,500	2	0.9	64	Tangent	Rural Residential
23	Lincoln St	8th St	San Gorgonio Ave	3,300	6	1.0	44/Var.	Tangent	Industrial, Open
24	Lincoln St	San Gorgonio Ave	Hathaway St	4,100	3	1.0	44	Tangent	Rural Residential w/ Industrial, Open
25	Ramsey St	Highland Springs Ave	Highland Home Rd	19,500	16	1.0	86	Curved/Tangent	Urban Commercial
26	Ramsey St	Highland Home Rd	Sunset Ave	19,500	34	1.0	86	Tangent	Urban Commercial
27	Ramsey St	Sunset Ave	22nd St	12,800	16	0.6	44	Tangent	Urban Commercial
28	Ramsey St	22nd St	8th St	5,000	45	0.9	44	Tangent	Urban Commercial
29	Ramsey St	8th St	Hargrave St	13,500	12	1.0	64	Tangent	Urban Commercial
30	Ramsey St	Hargrave St	I-10 Ramps	13,500	3	0.75	44	Tangent	Urban Commercial & Industrial
31	Nicolet St	Sunset Ave	22nd St	2,200	1	0.6	44	Tangent	Urban Residential
32	Nicolet St	22nd St	4th St	2,200	4	0.9	44	Tangent	Urban Residential
33	Nicolet St	4th St	Hargrave St	2,200	11	0.5	44	Tangent	Urban Residential
34	Nicolet St	Hargrave St	Hathaway St	2,200	2	0.4	36	Tangent	Rural Residential
35	Wilson St	Highland Springs Ave	Highland Home Rd	9,000	11	1.0	64	Tangent	Mixed Uses
36	Wilson St	Highland Home Rd	Sunset Ave	9,000	4	1.0	64	Tangent	Mixed Uses
37	Wilson St	Sunset Ave	16th St	5,700	10	1.5	64	Tangent	Rural Residential, Open
38	Wilson St	16th St	San Gorgonio Ave	5,700	2	0.5	64	Tangent	Urban Residential, Open
39	Wilson St	San Gorgonio Ave	Hargrave St	2,100	2	0.5	64	Tangent	Urban Residential, Open
40	Sun Lakes Bl	Country Club Dr	Highland Home Rd	5,400	0	1.0	86	Curved/Tangent	Rural Residential
41	Westward Ave	Sunset Ave	San Gorgonio Ave	2,100	6	2.0	44	Tangent	Rural Residential
42	Williams St	Sunset Ave	Hathaway St	2,800	7	2.5	40	Tangent	Urban Residential, Mixed Use
43	George St	Sunset Ave	Woodland Ave	1,800	1	0.4	46	Tangent	Urban Residential
44	George St	20th St	8th St	1,800	2	0.8	36	Tangent	Urban Residential
45	George St	8th St	San Gorgonio Ave	1,800	2	0.5	36	Tangent	Urban Residential
46	Sun Lakes Bl	Highland Springs Ave	Country Club Dr	5,400	0	1.0	86	Curved/Tangent	Rural Residential

This is to certify that the 2011 Engineering and Traffic Survey Report for City of Banning, California is prepared in compliance with 2010 Manual of Uniform Traffic Control Device (MUTCD) published by California State Department of Transportation.

Submitted by:

5/9/2012

Peter H. Liu, R.T.E. #1386 Date
Peter Liu Consulting

REGISTERED PROFESSIONAL ENGINEER
PETER H. LIU
No. 1386
Exp. Date 12/31/13
TRAFFIC ENGINEERING
STATE OF CALIFORNIA

Approved by:

5/10/2012

Kahono Oei, R.C.E. # 52652 Date
City Engineer, City of Banning

APPENDIX

FOURTY-SIX (46) INDIVIDUAL SPEED ZONES

Each individual speed zone contains the following information:

(1) Engineering and Traffic Survey Data Summary
(2) Speed Zone Location Map
(3) Speed Zone Survey Sheet

Listing of Individual Speed Zones

Zone 1: 8th Street from Gilman Street to I-10 ……. 1
Zone 2: 22nd Street from Ramsey Street to Westward Avenue …… 6
Zone 3: Highland Home Road from Wilson Street to Ramsey Street …… 11
Zone 4: Hathaway Street from Hoffer Street to Ramsey Street …… 16
Zone 5: Hathaway Street from Lincoln Street to Wesley Street ……..21
Zone 6: Mountain Avenue from Mockingbird Lane to Wilson Street …… 26
Zone 7: Highland Springs Avenue from Oak Valley Parkway to N. City Limit….. 31
Zone 8: Highland Springs Avenue from Oak Valley Parkway to Wilson Street ….. 34
Zone 9: Highland Springs Avenue from Wilson Street to Sun Lakes Boulevard….. 37
Zone 10: Highland Springs Avenue from Sun Lakes Boulevard to S. City Limit…….40
Zone 11: San Gorgonio Avenue from Lombardy Lane to Wilson Street …….. 43
Zone 12: San Gorgonio Avenue from Wilson Street to Ramsey Street …….. 48
Zone 13: San Gorgonio Avenue from Ramsey Street to Lincoln Street …….. 53
Zone 14: Sunset Avenue from Wilson Street to Ramsey Street …….. 58
Zone 15: Sunset Avenue from Ramsey Street to Westward Avenue …….. 63
Zone 16: Hargrave Street from Wilson Street to Ramsey Street …….. 68
Zone 17: Hargrave Street from Ramsey St to Wesley St …… 73
Zone 18: Omar Street from Ramsey Street to Wilson Street ……..…… 78
Zone 19: Alessandro Road from Repplier Rd to Wilson St …… 83
Zone 20: Alessandro Road from Wilson St to Ramsey St …… 88
Zone 21: Lincoln Street from Sunset Avenue to 22nd Street ……..…. 93
Zone 22: Lincoln Street from 22nd Street to 8th Street ……..……98
Zone 23: Lincoln Street from 8th Street to San Gorgonio Avenue …….. 103
Zone 24: Lincoln Street from San Gorgonio Avenue to Hathaway Street …….. 108
Zone 25: Ramsey Street from Highland Springs Avenue to Highland Home Road…..113
Zone 26: Ramsey Street from Highland Home Road to Sunset Avenue ……118
Zone 27: Ramsey Street from Sunset Avenue to 22nd Street …….……123
Zone 28: Ramsey Street from 22nd Street to 8th Street …….……128
Zone 29: Ramsey Street from 8th Street to Hargrave Street ……..…133
Zone 30: Ramsey Street from Hargrave Street to I-10 Ramp ……..…138
Zone 31: Nicolet Street from Sunset Avenue to 22nd Street ……..…143
Zone 32: Nicolet Street from 22nd Street to 4th Street …….148
Zone 33: Nicolet Street from 4th Street to Hargrave Street …….153
Zone 34: Nicolet Street from Hargrave Street to Hathaway Street ……158
Zone 35: Wilson Street from Highland Springs Avenue to Highland Home Road…..163
Zone 36: Wilson Street from Highland Home Road to Sunset Avenue ……168
Zone 37: Wilson Street from Sunset Avenue to 16th Street ……173
Zone 38: Wilson Street from 16th Street to San Gorgonio Avenue ……178
Zone 39: Wilson Street from San Gorgonio Avenue to Hargrave Street ……183
Zone 40: Sun Lakes Blvd from Country Club Drive to Highland Home Road …...….188
Zone 41: Westward Avenue from Sunset Avenue to San Gorgonio Avenue ……193
Zone 42: Williams Street from Sunset Avenue to Hathaway Street …….198
Zone 43: George Street from Sunset Avenue to Woodland Ave …….203
Zone 44: George Street from 20th Street to 8th Street …….208
Zone 45: George Street from 8th Street to San Gorgonio Avenue …….213
Zone 46: Sun Lakes Blvd from Highland Springs Ave to Country Club Drive...…….218

City of Banning
Engineering and Traffic Survey Summary

Zone "01"
8th Street - From Gilman St To I-10

Location: 8th Street - Gilman St To I-10	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/18/2011	85th %tile Speed: 35 mph
Posted Speed Limit: 30 mph	Average Speed: 31 mph
10 mph Pace Speed: 26 - 35 mph	Percent in Pace Speed: 80%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 29	At Intersections: 28	Mid-block: 1
Collision Rate: 10.94 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

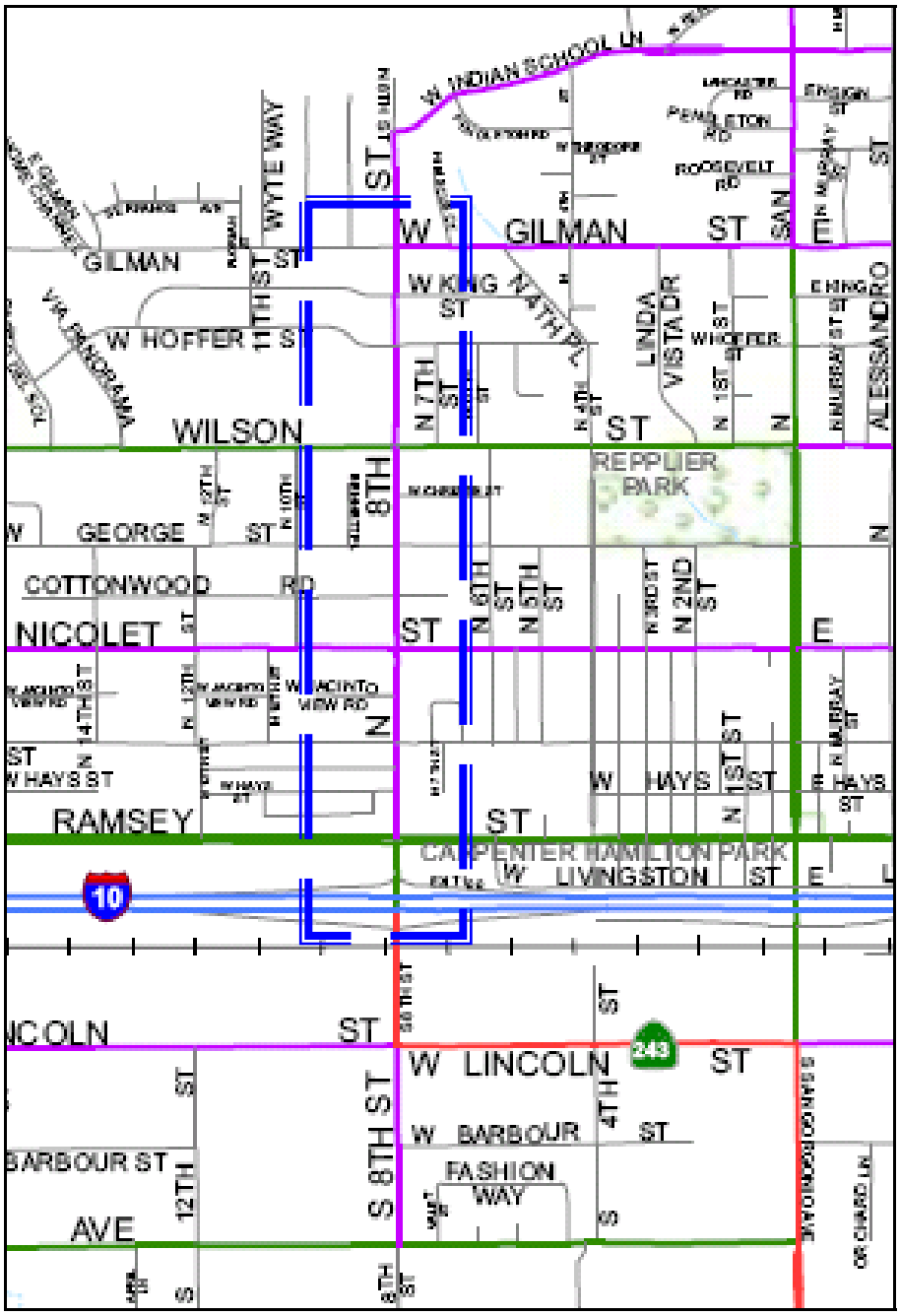
Roadway:	1 mile, 44-ft wide, straight roadway
Traffic:	7,260 ADT
Roadside:	Urban residential, some open/agriculture
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit: **30 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 01
8th Street – From Gilman St. to I-10



Zone 01

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

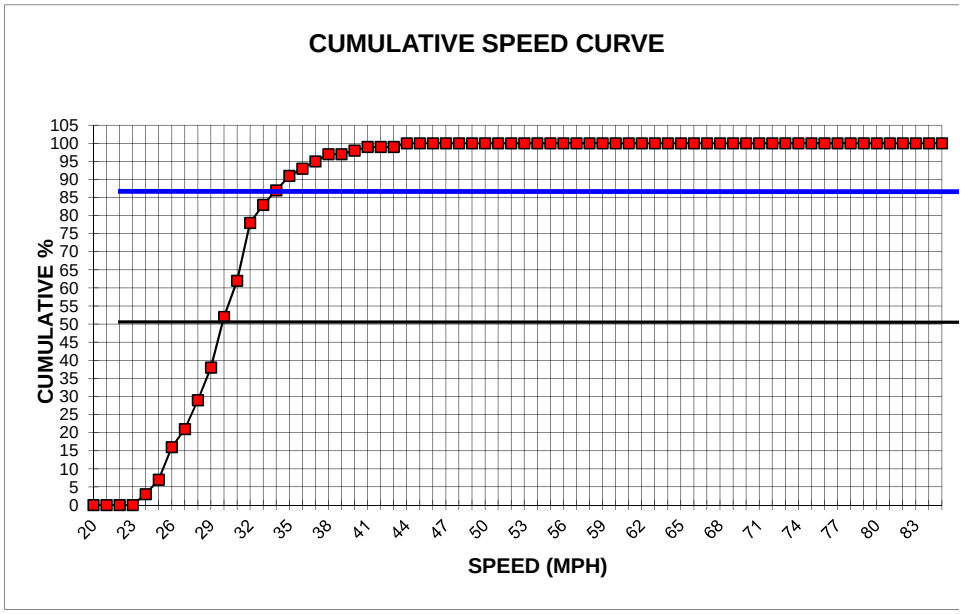
Street **8th Street**
Segment: **From Gilman St. to I-10**
DIRECTION: **NB**
POSTED SPEED LIMITS: **30 MPH**
WEATHER: Clear

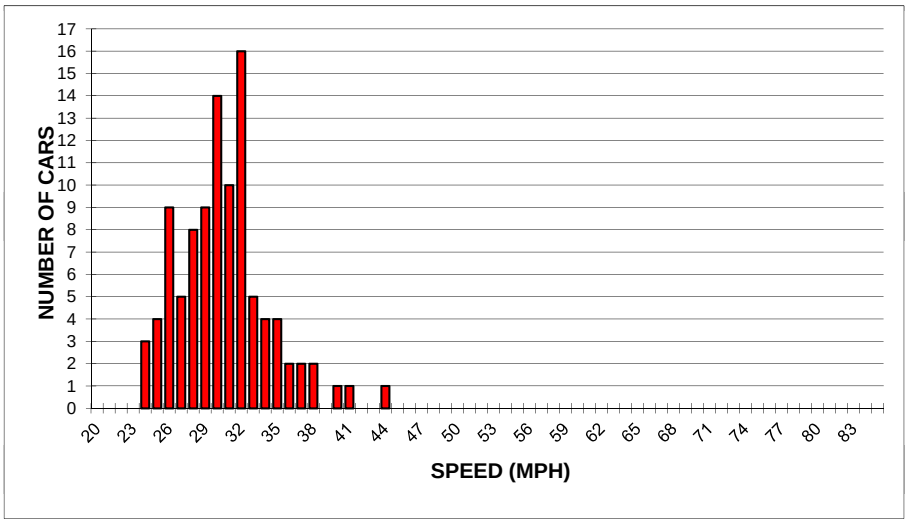
DATE: 07/18/11
TIME: 10:30 - 11:30

50th Percentile Speed			30.0
85th Percentile Speed			34.0
Number of Vehicles Observed			100
Average Speed			31
Range of Speeds	24	to	44

10 MPH Pace Speed	25	to	34
Percent in Pace Speed			84
Percent over Pace Speed			13
Percent under Pace Speed			3

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	3	3	3
25	4	4	7
26	9	9	16
27	5	5	21
28	8	8	29
29	9	9	38
30	14	14	52
31	10	10	62
32	16	16	78
33	5	5	83
34	4	4	87
35	4	4	91
36	2	2	93
37	2	2	95
38	2	2	97
39	0	0	97
40	1	1	98
41	1	1	99
42	0	0	99
43	0	0	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 01 NB

SPEED ZONE SURVEY SHEET

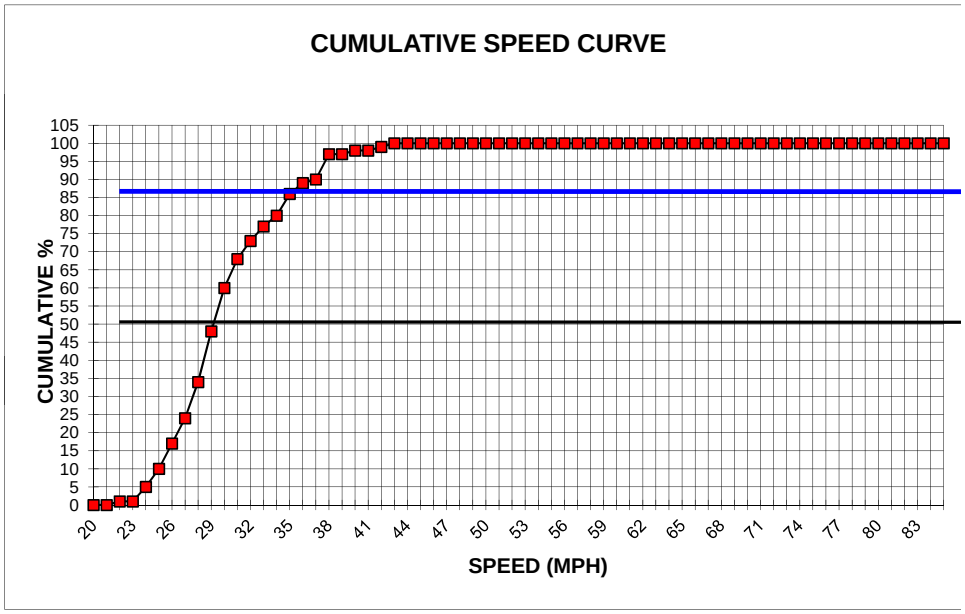
City of Banning
Public Works Department
Kahono Oei, City Engineer

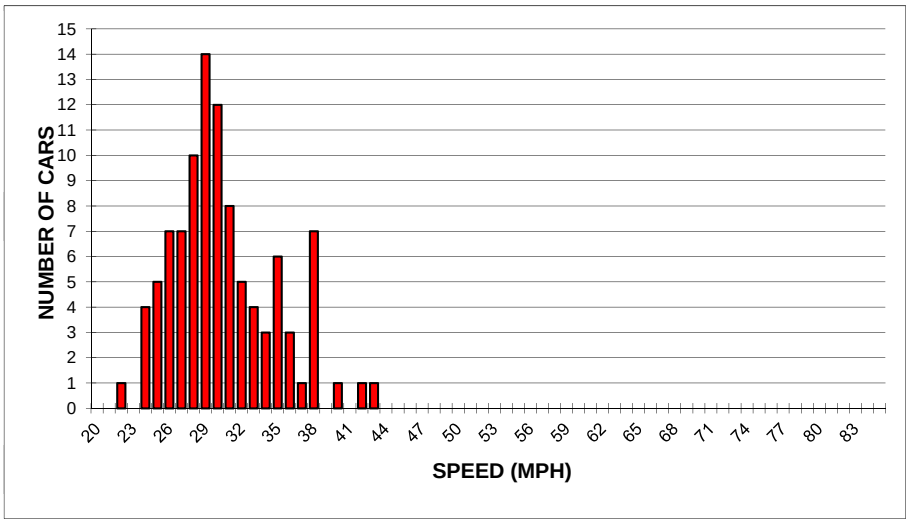
Roadway: **8th Street**
Segment: **From Gilman St. to I-10**
DIRECTION: **SB**
POSTED SPEED LIMITS: **30 MPH**
WEATHER: Clear

DATE: 7/18/11
TIME: 09:00 - 10:00

50th Percentile Speed	30.0	10 MPH Pace Speed	24 to 33
85th Percentile Speed	35.0	Percent in Pace Speed	76
Number of Vehicles Observed	100	Percent over Pace Speed	23
Average Speed	30	Percent under Pace Speed	1
Range of Speeds	22 to 43		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	1	1	1
23	0	0	1
24	4	4	5
25	5	5	10
26	7	7	17
27	7	7	24
28	10	10	34
29	14	14	48
30	12	12	60
31	8	8	68
32	5	5	73
33	4	4	77
34	3	3	80
35	6	6	86
36	3	3	89
37	1	1	90
38	7	7	97
39	0	0	97
40	1	1	98
41	0	0	98
42	1	1	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 01 SB

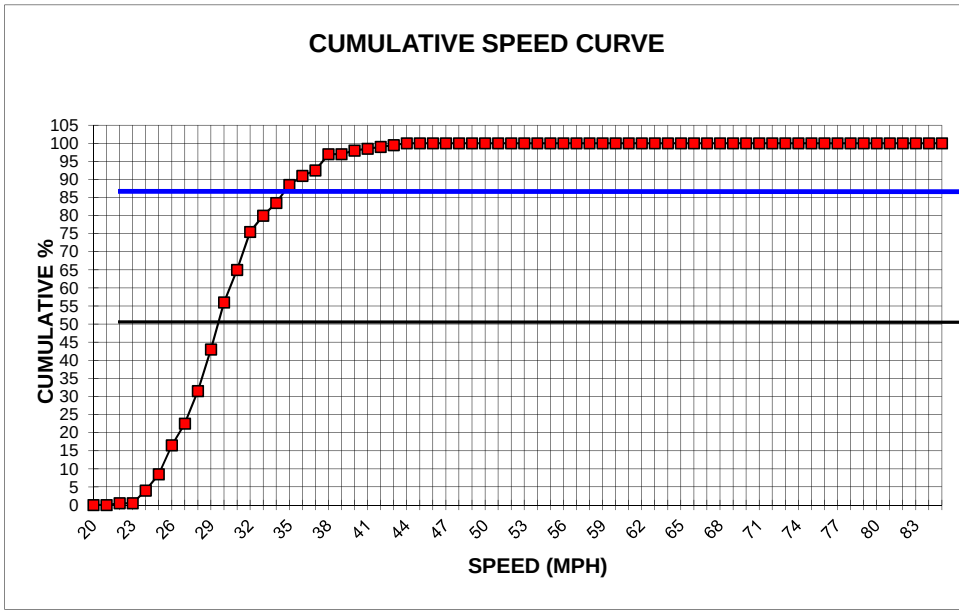
SPEED ZONE SURVEY SHEET

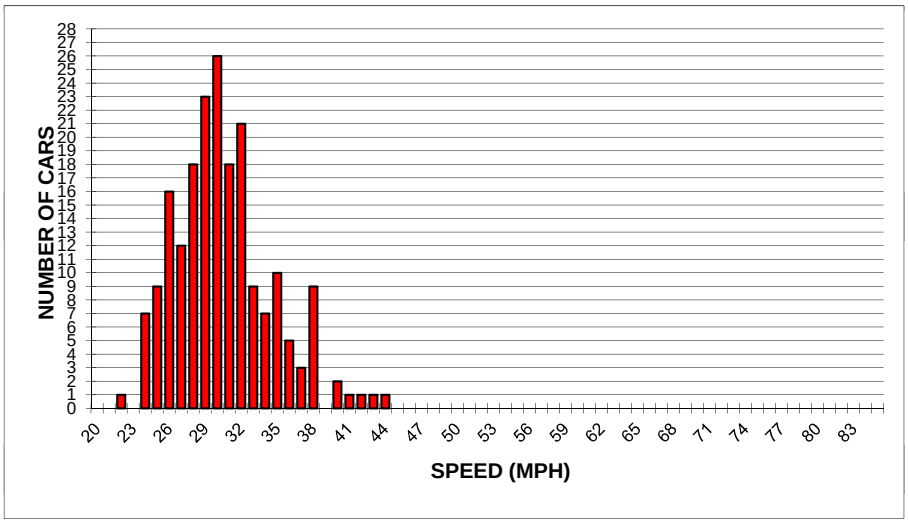
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **8th Street**
Segment: **From Gilman St. to I-10**
DIRECTION: **Both Directions** DATE: 07/18/11
POSTED SPEED LIMITS: **30 MPH** TIME: 10:30 - 11:30
WEATHER: Clear

50th Percentile Speed	30.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	35.0	Percent in Pace Speed	80
Number of Vehicles Observed	200	Percent over Pace Speed	12
Average Speed	31	Percent under Pace Speed	9
Range of Speeds	22 to 44		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	1	1	1
23	0	0	1
24	7	4	4
25	9	5	9
26	16	8	17
27	12	6	23
28	18	9	32
29	23	12	43
30	26	13	56
31	18	9	65
32	21	11	76
33	9	5	80
34	7	4	84
35	10	5	89
36	5	3	91
37	3	2	93
38	9	5	97
39	0	0	97
40	2	1	98
41	1	1	99
42	1	1	99
43	1	1	100
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 01 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "02"
22nd Street - Ramsey St to Westward Ave

Location: 22nd Street - Ramsey St to Westward Ave	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/18/2011	85th %tile Speed: 37 mph
Posted Speed Limit: 35 mph	Average Speed: 34 mph
10 mph Pace Speed: 29 - 38 mph	Percent in Pace Speed: 91%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 13	At Intersections: 13	Mid-block: 0
Collision Rate: 8.58 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 86-ft wide, straight roadway
Traffic:	8,300 ADT
Roadside:	Urban residential, some open/agriculture
Not Readily Apparent to Driver:	

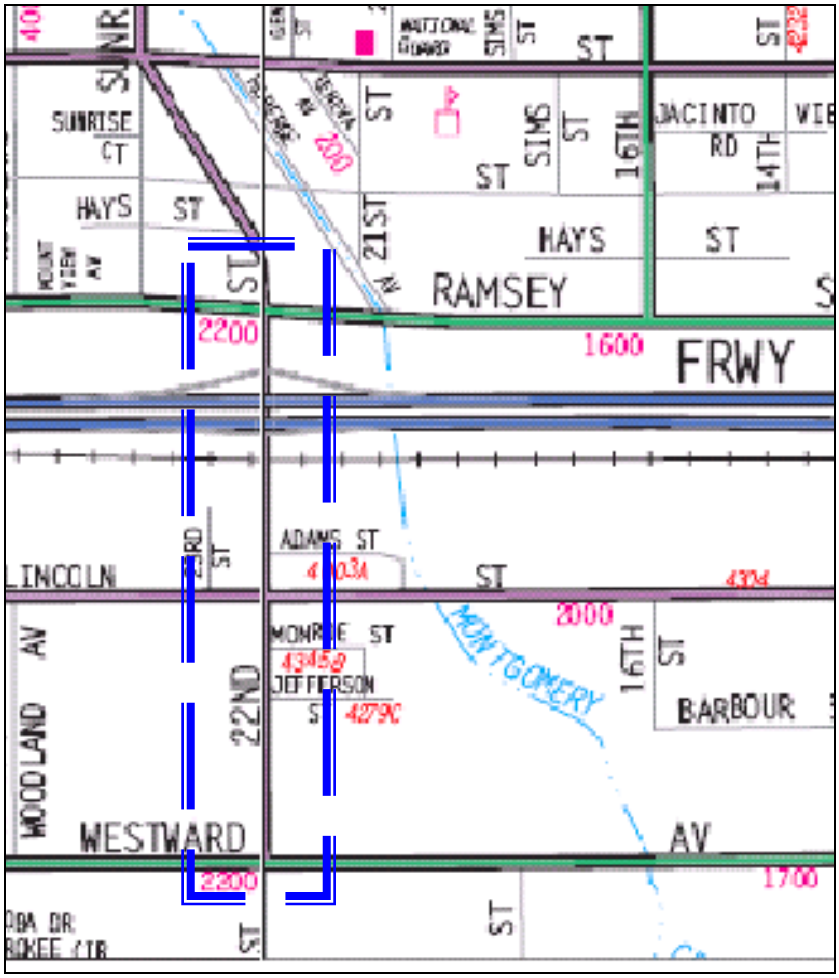
PART IV - RECOMMENDATIONS

Recommended Speed Limit: **35 mph**

(*) - No recent collision records available

ZONE "02"

Radar Enforceable Speed Zone
Zone 02
22nd Street – From Ramsey St. to Westward Ave.



Zone 02

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **22nd Street**
Segment: **From Westward Avenue to Ramsey Street**
DIRECTION: **NB** DATE: 7/18/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00-14:00
WEATHER: Clear

50th Percentile Speed	33.0	10 MPH Pace Speed	29 to 38
85th Percentile Speed	36.0	Percent in Pace Speed	89
Number of Vehicles Observed	75	Percent over Pace Speed	4
Average Speed	33	Percent under Pace Speed	7
Range of Speeds	26 to 42		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	3
28	3	4	7
29	4	5	12
30	6	8	20
31	5	7	27
32	11	15	41
33	13	17	59
34	7	9	68
35	5	7	75
36	8	11	85
37	3	4	89
38	5	7	96
39	0	0	96
40	2	3	99
41	0	0	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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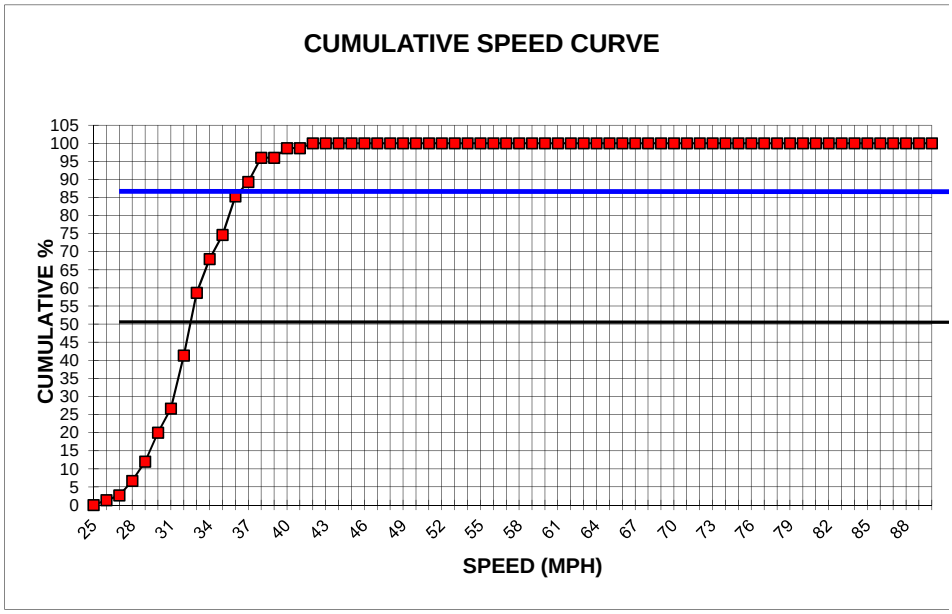
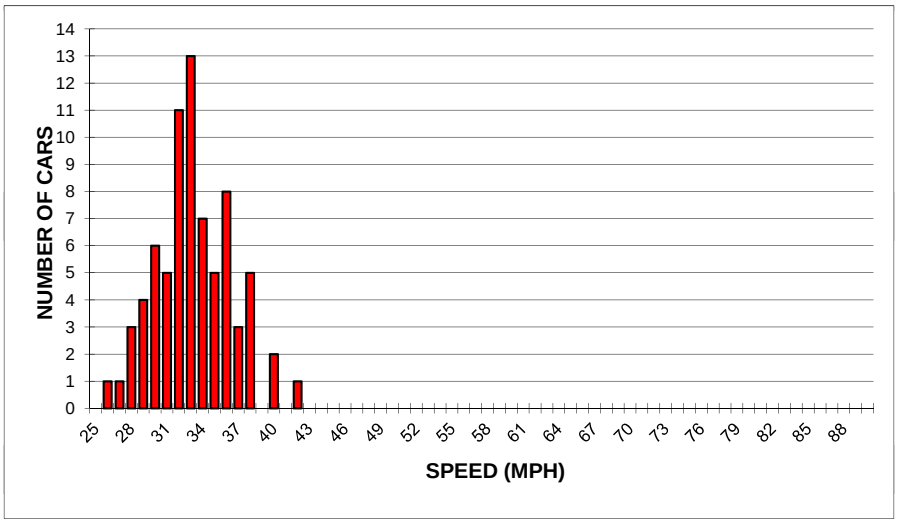
79	0	0	100
80	0	0	100





Loc 02 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **22nd Street**
Segment: **From Westward Avenue to Ramsey Street**
DIRECTION: **SB** DATE: 7/18/11
POSTED SPEED LIMITS: **35 MPH** TIME: 14:30-16:00
WEATHER: Clear

50th Percentile Speed	33.0	10 MPH Pace Speed	29 to 38
85th Percentile Speed	37.0	Percent in Pace Speed	92
Number of Vehicles Observed	75	Percent over Pace Speed	4
Average Speed	34	Percent under Pace Speed	4
Range of Speeds	28 to 42		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	3	4	4
29	1	1	5
30	5	7	12
31	7	9	21
32	10	13	35
33	11	15	49
34	7	9	59
35	5	7	65
36	11	15	80
37	3	4	84
38	9	12	96
39	1	1	97
40	0	0	97
41	1	1	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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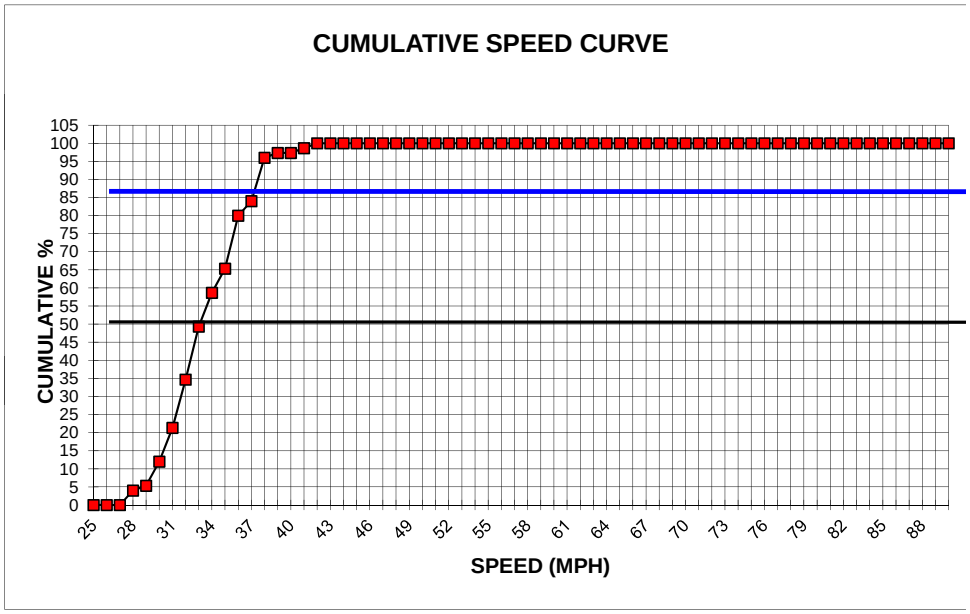
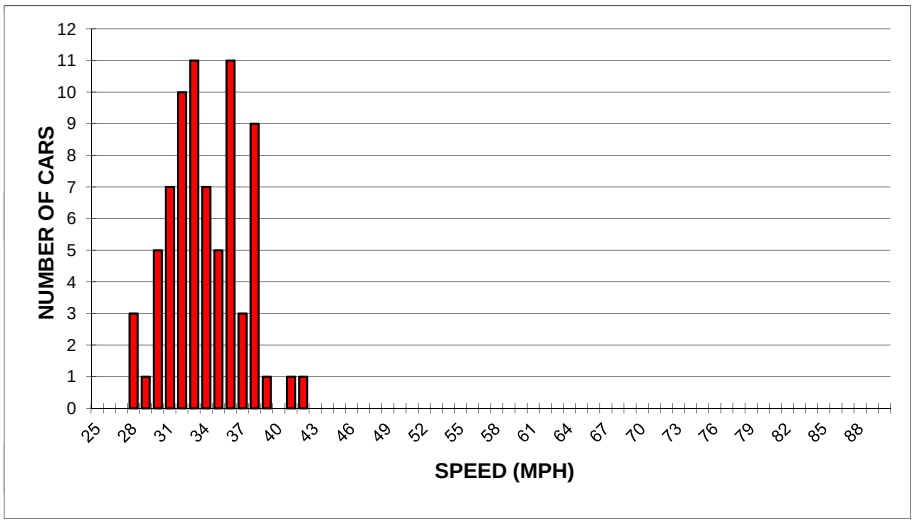
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 02 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **22nd Street**
Segment: **From Westward Avenue to Ramsey Street**
DIRECTION: **Both Directions** DATE: 7/18/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00-16:00
WEATHER: Clear

50th Percentile Speed	33.0	10 MPH Pace Speed	29 to 38
85th Percentile Speed	37.0	Percent in Pace Speed	91
Number of Vehicles Observed	150	Percent over Pace Speed	4
Average Speed	34	Percent under Pace Speed	5
Range of Speeds	26 to 42		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	1
28	6	4	5
29	5	3	9
30	11	7	16
31	12	8	24
32	21	14	38
33	24	16	54
34	14	9	63
35	10	7	70
36	19	13	83
37	6	4	87
38	14	9	96
39	1	1	97
40	2	1	98
41	1	1	99
42	2	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
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77	0	0	100
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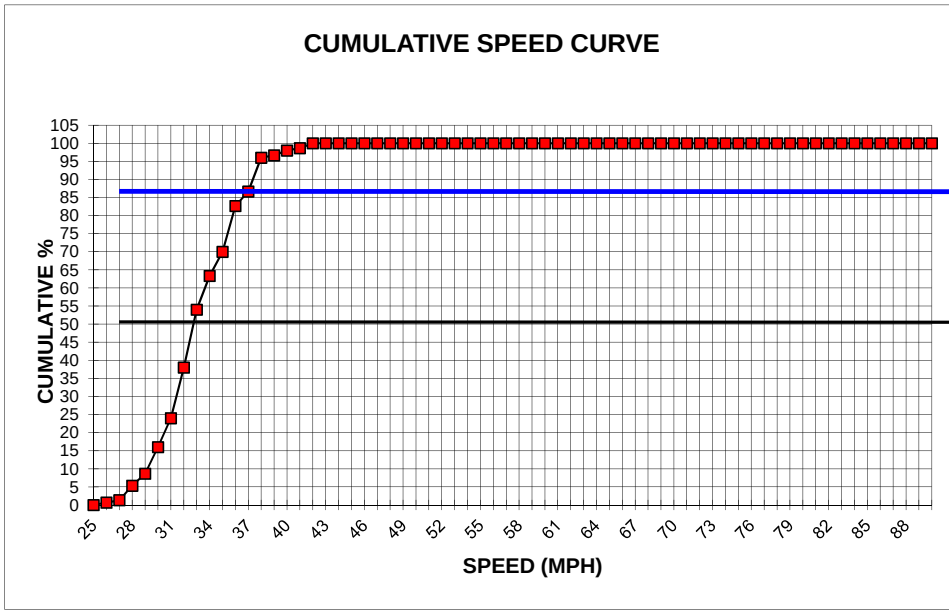
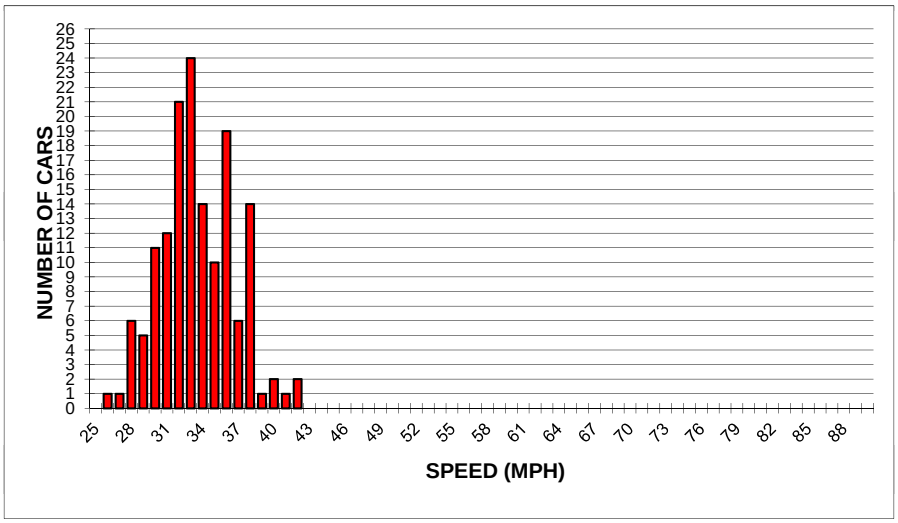
79	0	0	100
80	0	0	100





Loc 02 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "03"
Highland Home Road - From Wilson St to Ramsey St

Location: Highland Home Road - Wilson St to Ramsey St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/19/2011	85th %tile Speed: 41 mph
Posted Speed Limit: 40	Average Speed: 37 mph
10 mph Pace Speed: 32 - 41 mph	Percent in Pace Speed: 81%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 3	At Intersections: 3	Mid-block: 0
Collision Rate: 6.23 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.4 mile long, 86-ft wide with raised median, straight/curved roadway
Traffic:	3,300 ADT
Roadside:	Urban residential, control access points, no direct driveways
Not Readily Apparent to Driver:	

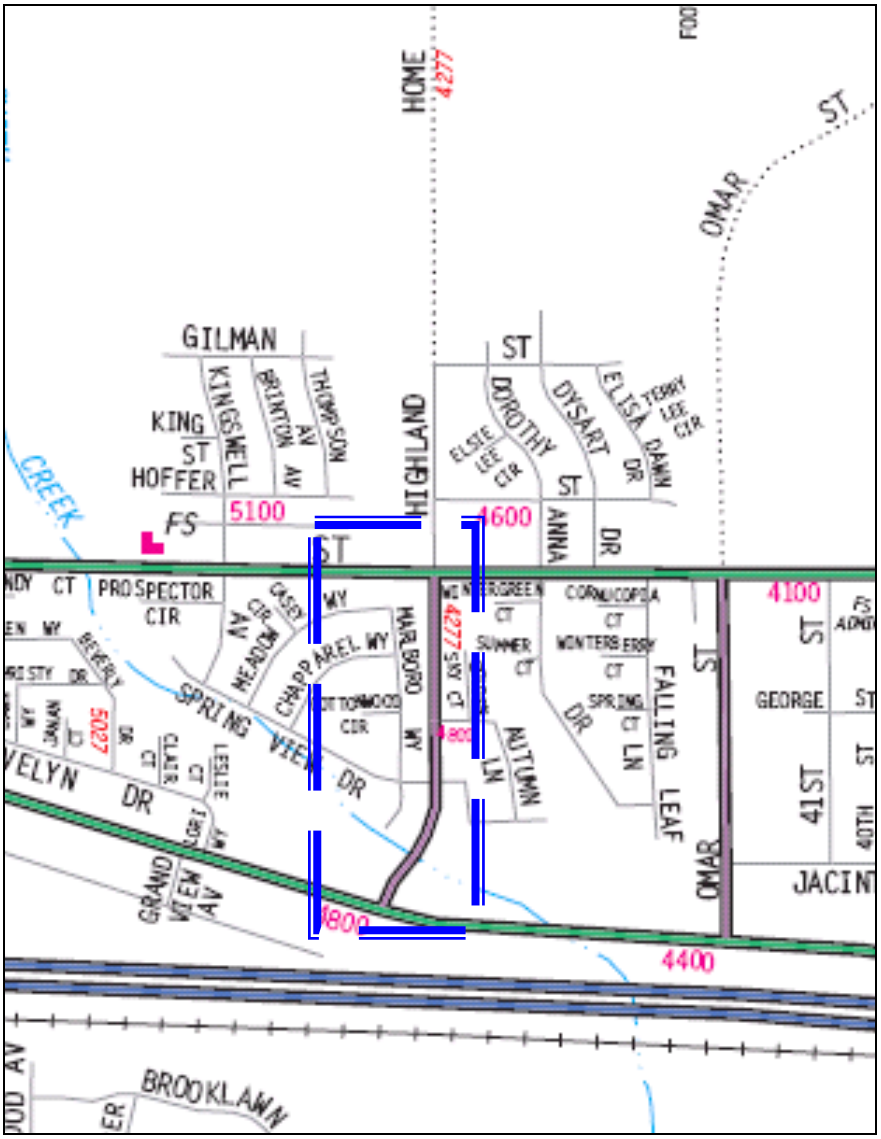
PART IV - RECOMMENDATIONS

Recommended Speed Limit: **40 mph** (If recommendation below 85%tile, state reasons below.)

(*) - No recent collision records available

ZONE "03"

Radar Enforceable Speed Zone
Zone 03
Highland Home Road – From Wilson St. to Ramsey St.



Zone 03

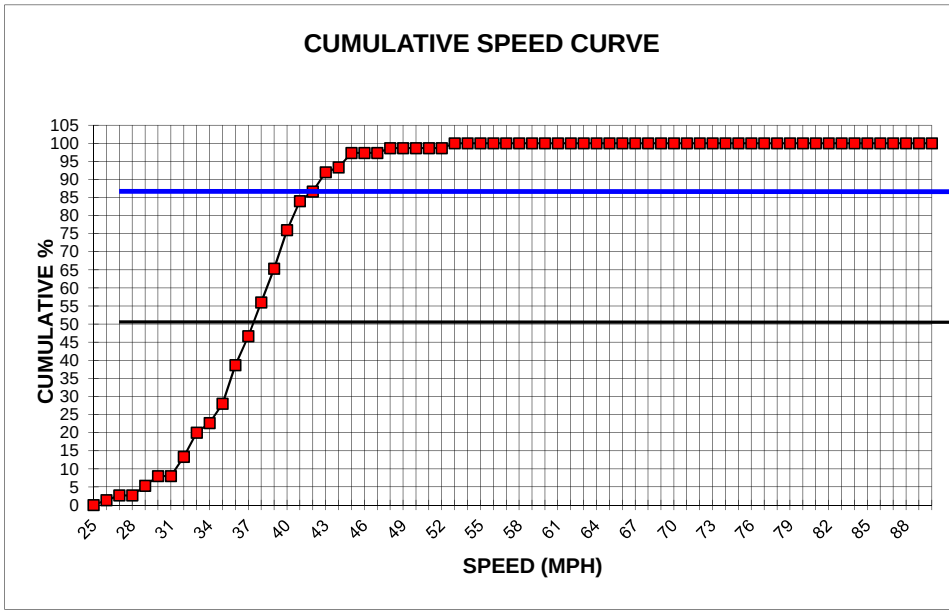
SPEED ZONE SURVEY SHEET

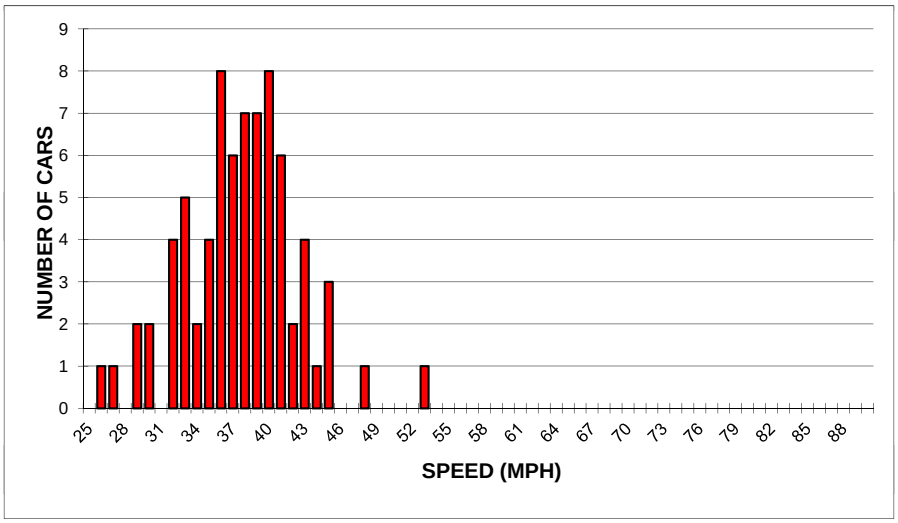
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Highland Home Road**
Segment: **From Ramsey Street to Wilson Street**
DIRECTION: **NB** DATE: 7/19/11
POSTED SPEED LIMITS: **40 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	41.0	Percent in Pace Speed	76
Number of Vehicles Observed	75	Percent over Pace Speed	16
Average Speed	38	Percent under Pace Speed	8
Range of Speeds	26 to 53		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	3
28	0	0	3
29	2	3	5
30	2	3	8
31	0	0	8
32	4	5	13
33	5	7	20
34	2	3	23
35	4	5	28
36	8	11	39
37	6	8	47
38	7	9	56
39	7	9	65
40	8	11	76
41	6	8	84
42	2	3	87
43	4	5	92
44	1	1	93
45	3	4	97
46	0	0	97
47	0	0	97
48	1	1	99
49	0	0	99
50	0	0	99
51	0	0	99
52	0	0	99
53	1	1	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 03 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Highland Home Road**
Segment: **From Ramsey Street to Wilson Street**
DIRECTION: **SB** DATE: 7/19/11
POSTED SPEED LIMITS: **40 MPH** TIME: 15:00 - 16:00
WEATHER: Clear

50th Percentile Speed	37.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	40.0	Percent in Pace Speed	85
Number of Vehicles Observed	75	Percent over Pace Speed	8
Average Speed	37	Percent under Pace Speed	7
Range of Speeds	29 to 48		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	4	5	5
30	1	1	7
31	0	0	7
32	4	5	12
33	6	8	20
34	2	3	23
35	5	7	29
36	12	16	45
37	6	8	53
38	8	11	64
39	10	13	77
40	6	8	85
41	5	7	92
42	2	3	95
43	2	3	97
44	0	0	97
45	1	1	99
46	0	0	99
47	0	0	99
48	1	1	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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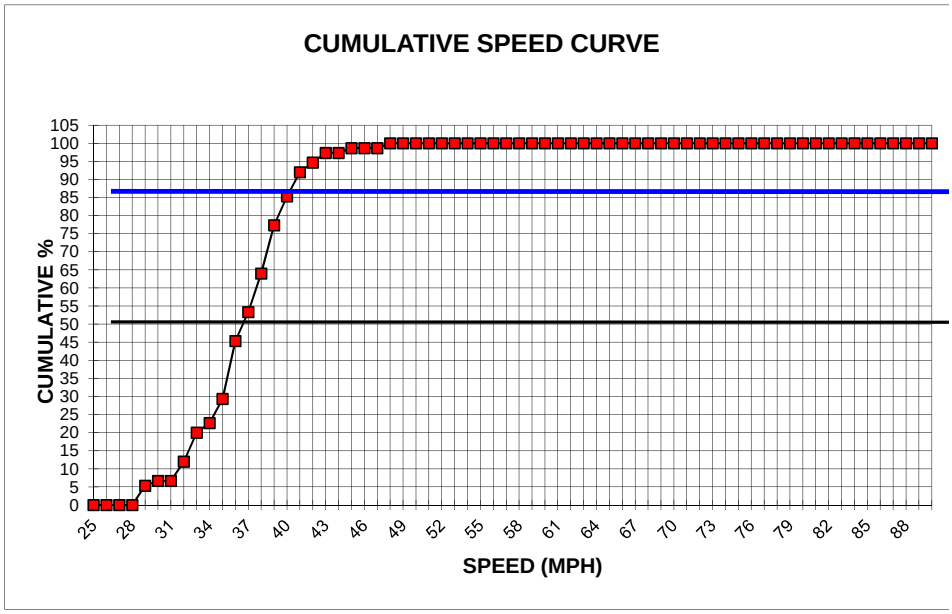
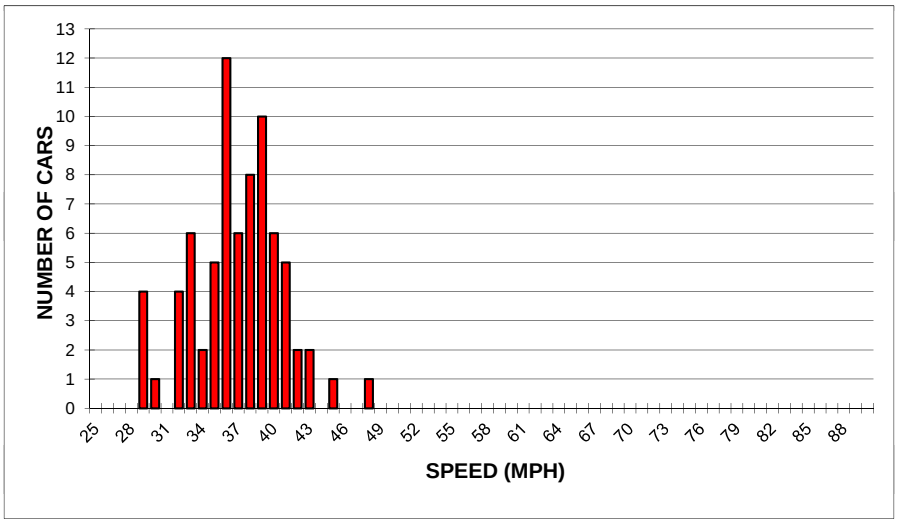
79	0	0	100
80	0	0	100





Loc 03 SB

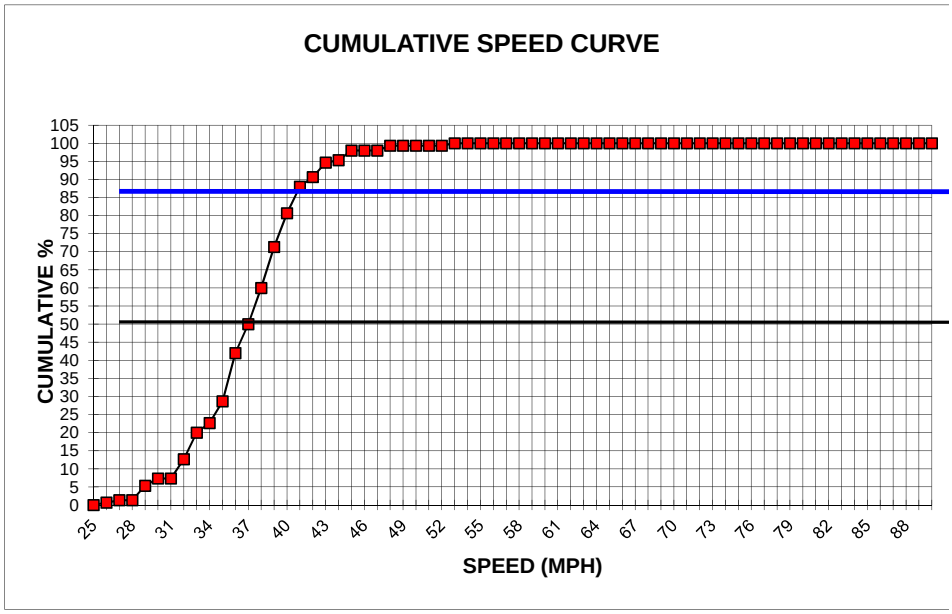
SPEED ZONE SURVEY SHEET

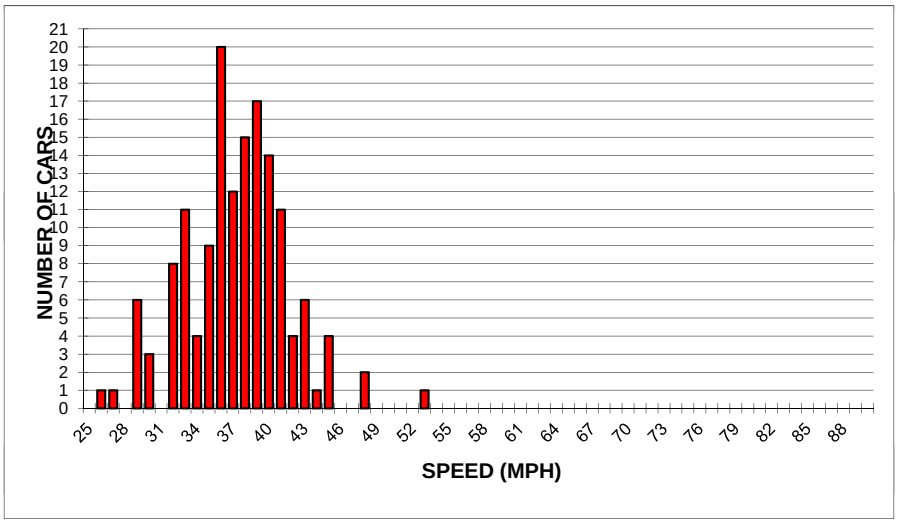
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Highland Home Road**
Segment: **From Ramsey Street to Wilson Street**
DIRECTION: **NB** DATE: 7/19/11
POSTED SPEED LIMITS: **40 MPH** TIME: 13:00 - 16:00
WEATHER: Clear

50th Percentile Speed	37.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	41.0	Percent in Pace Speed	81
Number of Vehicles Observed	150	Percent over Pace Speed	12
Average Speed	37	Percent under Pace Speed	7
Range of Speeds	26 to 53		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	1
28	0	0	1
29	6	4	5
30	3	2	7
31	0	0	7
32	8	5	13
33	11	7	20
34	4	3	23
35	9	6	29
36	20	13	42
37	12	8	50
38	15	10	60
39	17	11	71
40	14	9	81
41	11	7	88
42	4	3	91
43	6	4	95
44	1	1	95
45	4	3	98
46	0	0	98
47	0	0	98
48	2	1	99
49	0	0	99
50	0	0	99
51	0	0	99
52	0	0	99
53	1	1	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 03 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "04"
Hathaway Street - From Hoffer St to Ramsey St

Location: Hathaway Street - Hoffer St to Ramsey St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/16/2011	85th %tile Speed: 39 mph
Posted Speed Limit: 35 mph	Average Speed: 35 mph
10 mph Pace Speed: 30 - 39 mph	Percent in Pace Speed: 76%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 4	At Intersections: 1	Mid-block: 3
Collision Rate: 6.76 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.6 mile long, 40-ft wide, straight roadway
Traffic:	2,700 ADT
Roadside:	Rural residential, industrial, open/agriculture
Not Readily Apparent to Driver:	

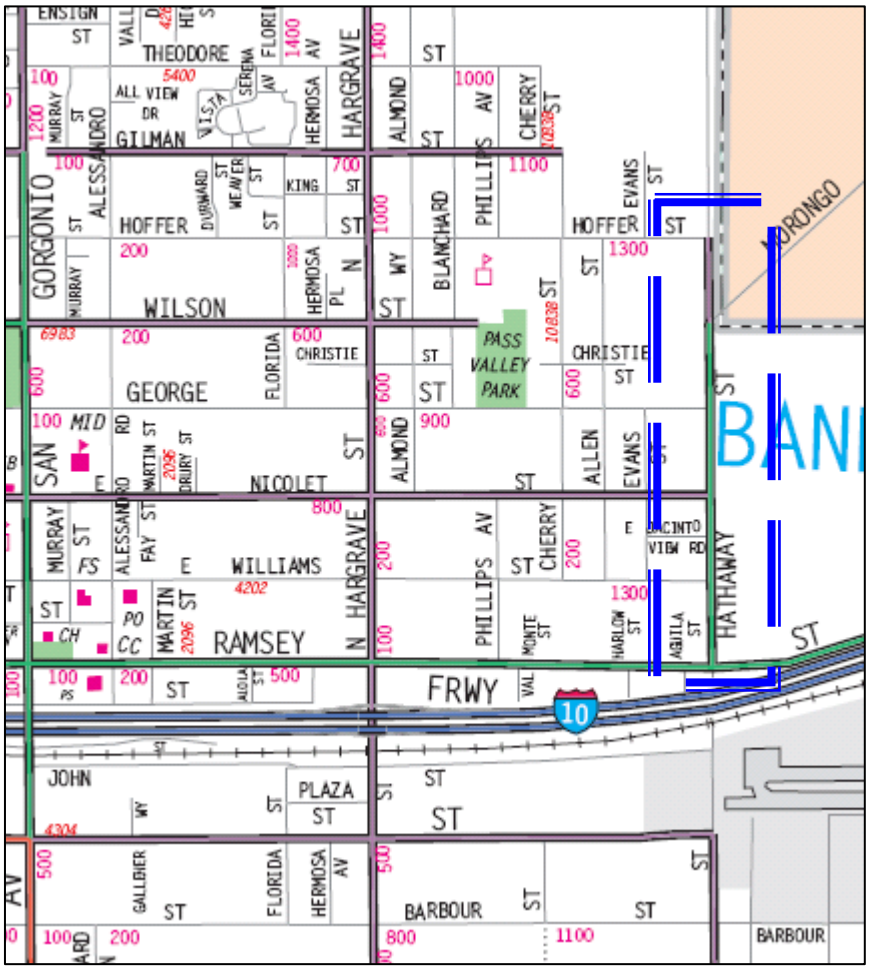
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "04"

Radar Enforceable Speed Zone
Zone 04
Hathaway Street – From Hoffer St. to Ramsey St.



Zone 04

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Hathaway Street**
Segment: **From Ramsey Street to Hoffer Street**
DIRECTION: **NB** DATE: 7/16/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:00 - 11:30
WEATHER: Clear

50th Percentile Speed	35.0	10 MPH Pace Speed	31 to 40
85th Percentile Speed	39.0	Percent in Pace Speed	73
Number of Vehicles Observed	100	Percent over Pace Speed	9
Average Speed	35	Percent under Pace Speed	18
Range of Speeds	24 to 44		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	1	1	2
26	2	2	4
27	2	2	6
28	4	4	10
29	4	4	14
30	4	4	18
31	7	7	25
32	5	5	30
33	7	7	37
34	5	5	42
35	10	10	52
36	8	8	60
37	6	6	66
38	12	12	78
39	8	8	86
40	5	5	91
41	4	4	95
42	2	2	97
43	2	2	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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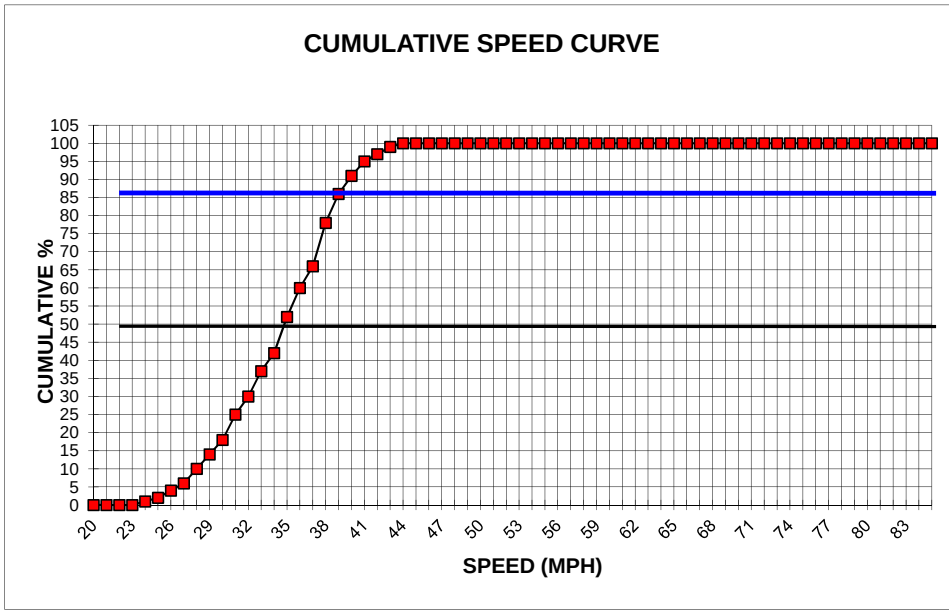
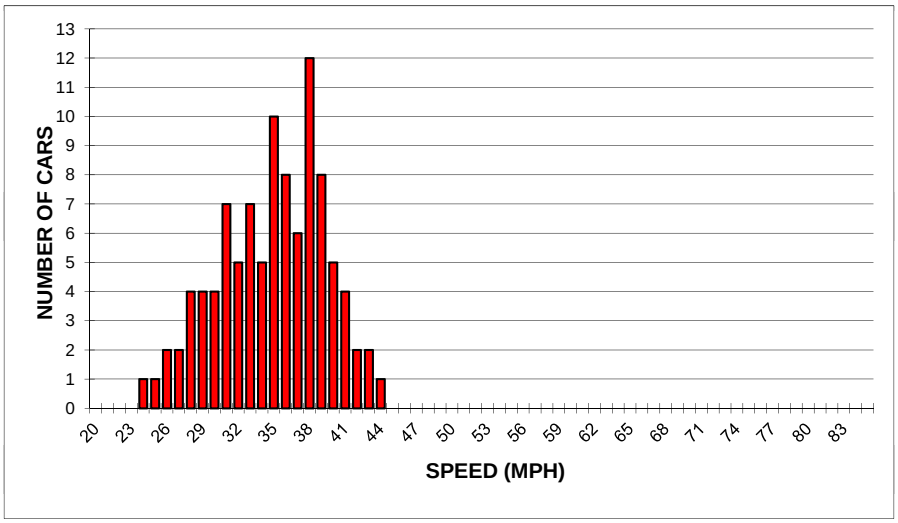
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 04 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Hathaway Street**
Segment: **From Ramsey Street to Hoffer Street**
DIRECTION: **SB** DATE: 7/16/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed	36.0	10 MPH Pace Speed	30 to 39
85th Percentile Speed	39.0	Percent in Pace Speed	79
Number of Vehicles Observed	100	Percent over Pace Speed	13
Average Speed	35	Percent under Pace Speed	8
Range of Speeds	25 to 44		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	2	2	2
26	0	0	2
27	0	0	2
28	1	1	3
29	5	5	8
30	6	6	14
31	10	10	24
32	8	8	32
33	7	7	39
34	5	5	44
35	5	5	49
36	11	11	60
37	7	7	67
38	9	9	76
39	11	11	87
40	4	4	91
41	4	4	95
42	3	3	98
43	1	1	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
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60	0	0	100
61	0	0	100
62	0	0	100
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64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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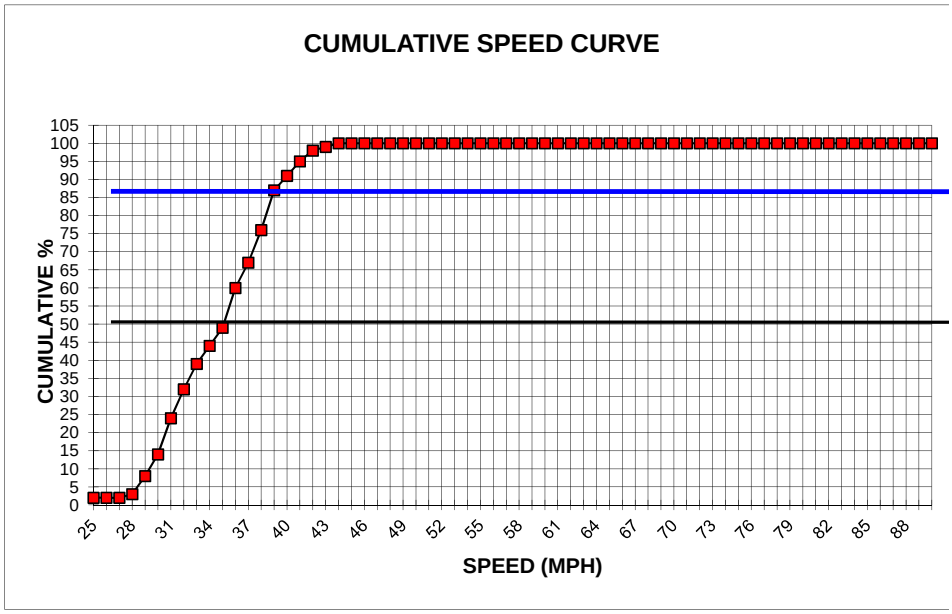
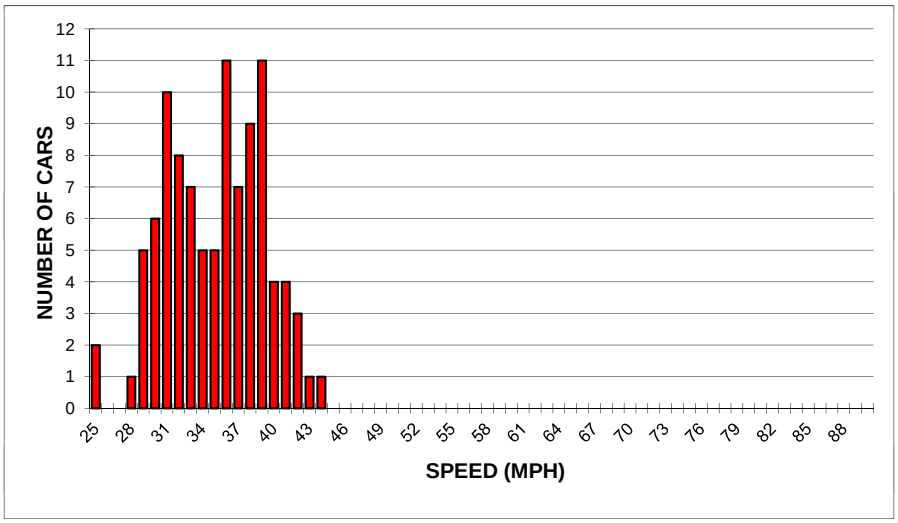
79	0	0	100
80	0	0	100





Loc 04 SB

SPEED ZONE SURVEY SHEET

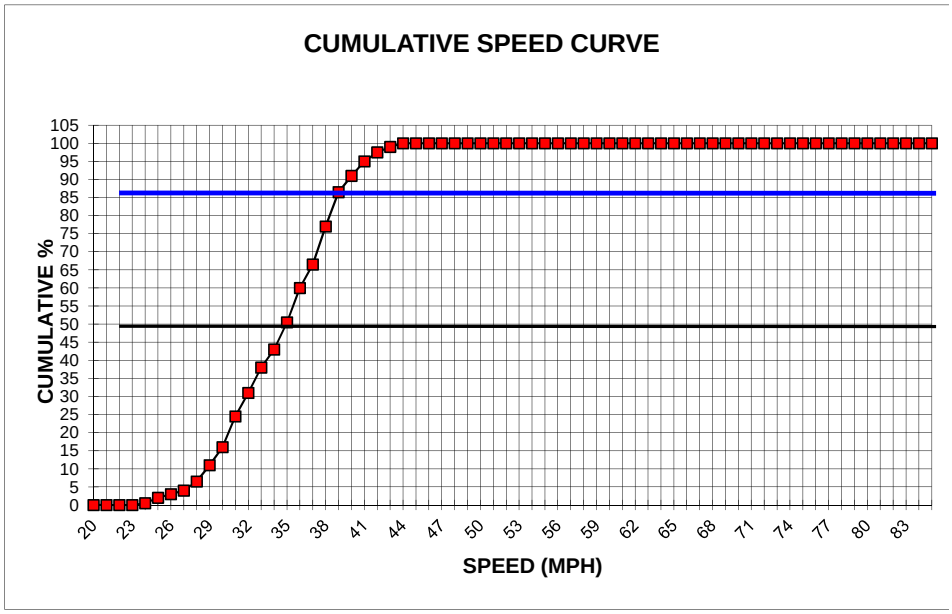
City of Banning
Public Works Department
Kahono Oei, City Engineer

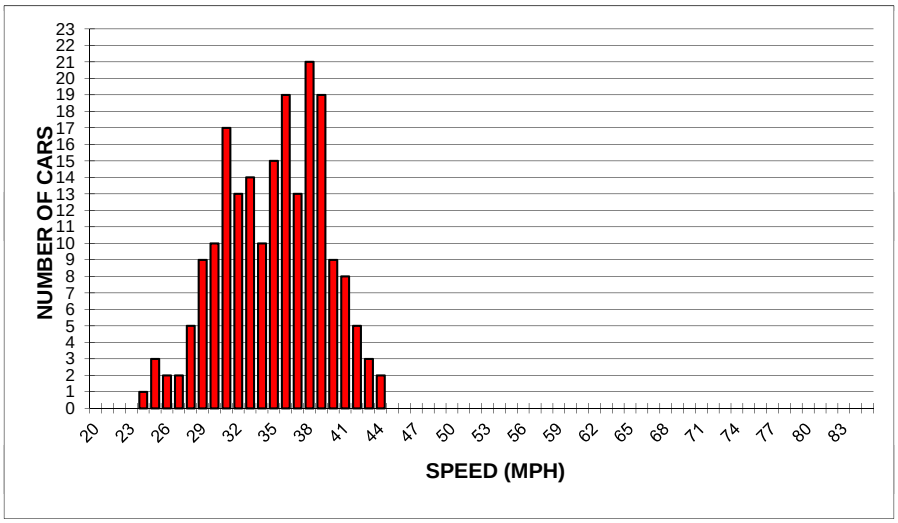
Street **Hathaway Street**
Segment: **From Ramsey Street to Hoffer Street**
DIRECTION: **Both Directions** DATE: 7/16/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:00 - 14:00
WEATHER: Clear

50th Percentile Speed			35.0
85th Percentile Speed			39.0
Number of Vehicles Observed			200
Average Speed			35
Range of Speeds	24	to	44

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			76
Percent over Pace Speed			14
Percent under Pace Speed			11

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	3	2	2
26	2	1	3
27	2	1	4
28	5	3	7
29	9	5	11
30	10	5	16
31	17	9	25
32	13	7	31
33	14	7	38
34	10	5	43
35	15	8	51
36	19	10	60
37	13	7	67
38	21	11	77
39	19	10	87
40	9	5	91
41	8	4	95
42	5	3	98
43	3	2	99
44	2	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 04 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "05"
Hathaway Street - From Lincoln St to Wesley St

Location: Hathaway Street - Lincoln St to Wesley St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/11/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 35 mph	Average Speed: 35 mph
10 mph Pace Speed: 30 - 39 mph	Percent in Pace Speed: 83%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 1	Mid-block: 1
Collision Rate: 2.85 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.8 mile long, 30-ft wide, straight roadway
Traffic:	2,400 ADT
Roadside:	Rural residential, industrial, open/agriculture
Not Readily Apparent to Driver:	

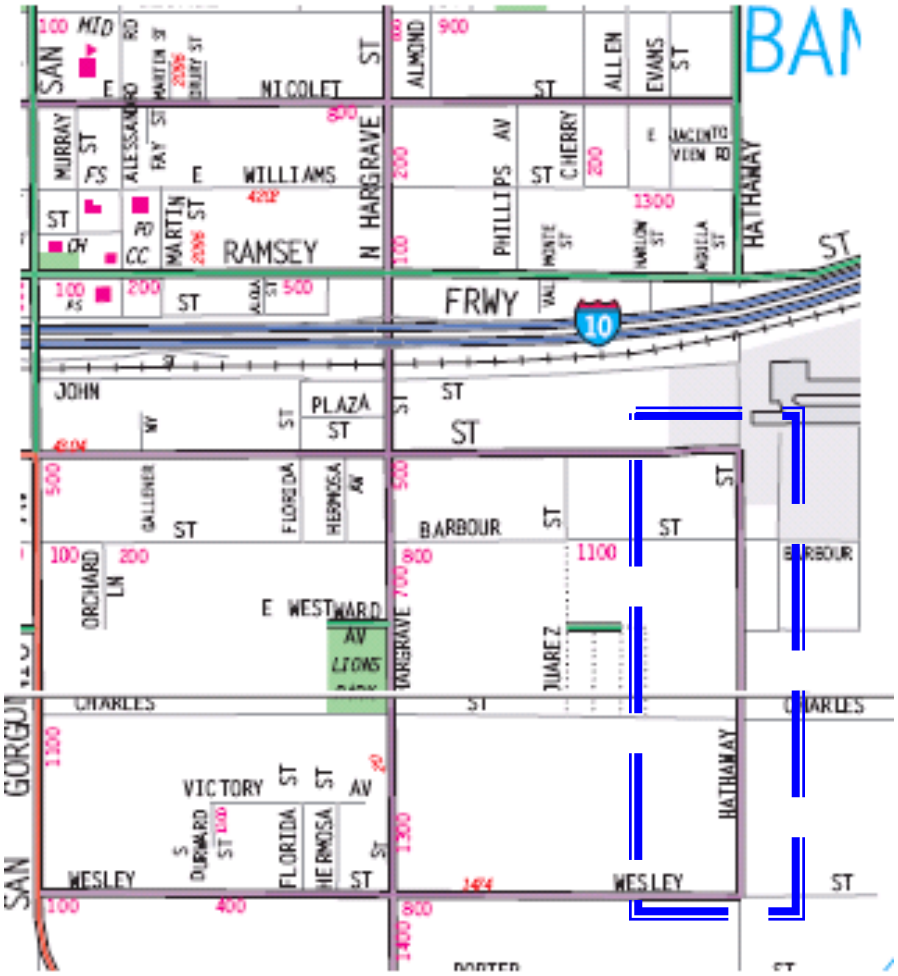
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "05"

Radar Enforceable Speed Zone
Zone 05
Hathaway Street – From Lincoln St. to Wesley St.



Zone 05

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Hathaway Street**
Segment: **From Lincoln Street to Wesley Street**
DIRECTION: **Northbound** DATE: 8/11/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed			35.0
85th Percentile Speed			39.0
Number of Vehicles Observed			75
Average Speed			35
Range of Speeds	28	to	42

10 MPH Pace Speed	31	to	40
Percent in Pace Speed			85
Percent over Pace Speed			5
Percent under Pace Speed			9

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	2	3	4
30	4	5	9
31	5	7	16
32	6	8	24
33	5	7	31
34	8	11	41
35	6	8	49
36	11	15	64
37	8	11	75
38	6	8	83
39	3	4	87
40	6	8	95
41	3	4	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
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63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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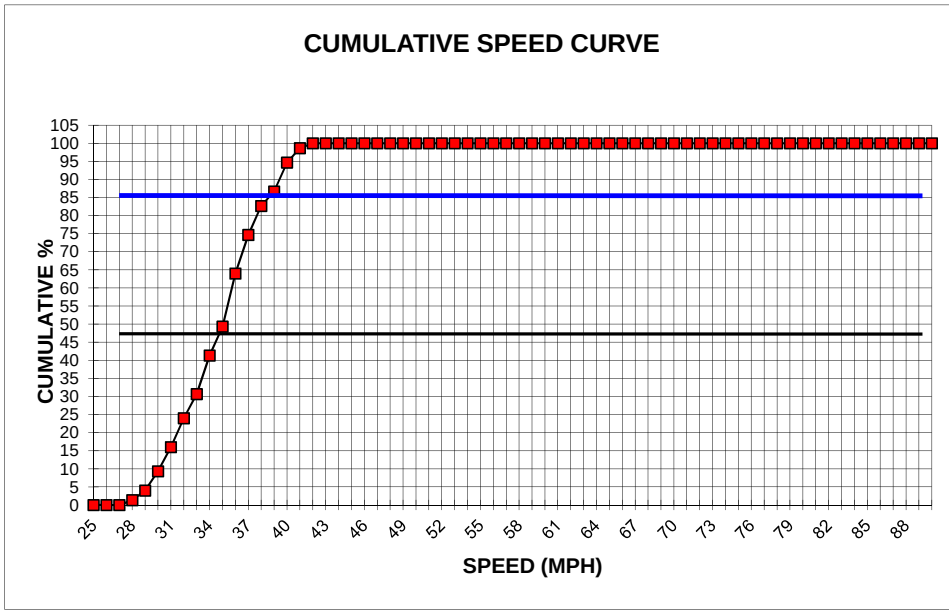
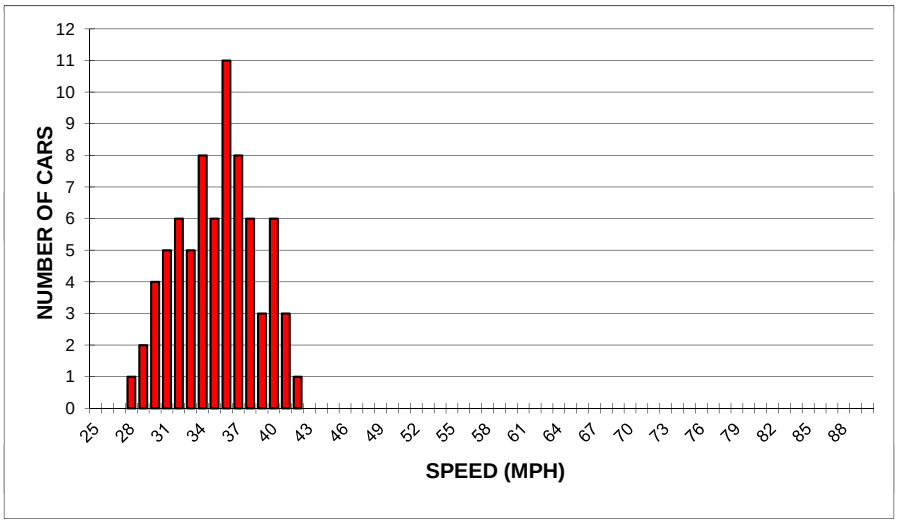
80	0	0	100





Loc 05 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Hathaway Street**
Segment: **From Lincoln Street to Wesley Street**
DIRECTION: **Southbound** DATE: 8/11/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:30 - 11:30
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	27	to	41

10 MPH Pace Speed	29	to	38
Percent in Pace Speed			84
Percent over Pace Speed			11
Percent under Pace Speed			5

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	1	1	1
28	3	4	5
29	4	5	11
30	7	9	20
31	5	7	27
32	7	9	36
33	5	7	43
34	9	12	55
35	6	8	63
36	8	11	73
37	7	9	83
38	5	7	89
39	4	5	95
40	3	4	99
41	1	1	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
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62	0	0	100
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69	0	0	100
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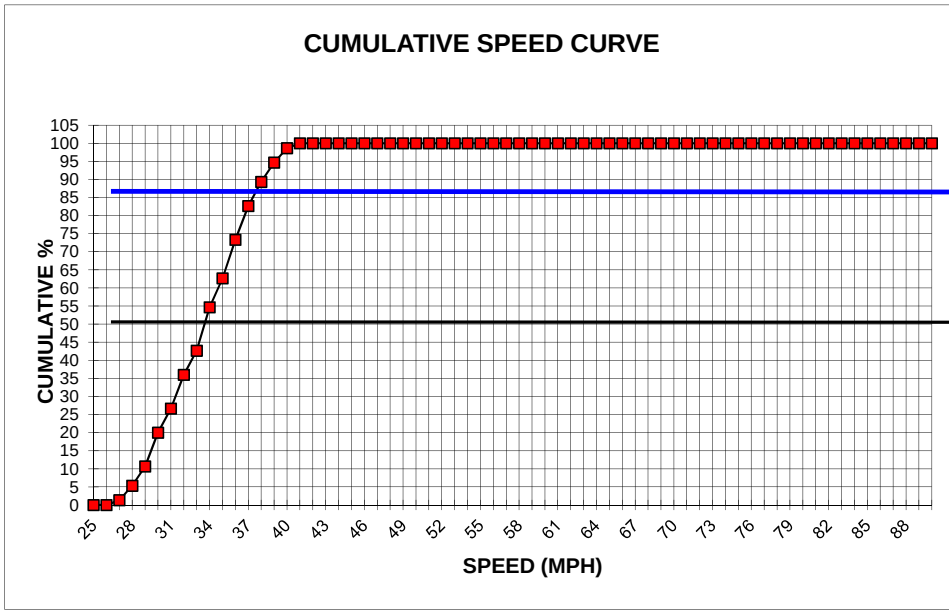
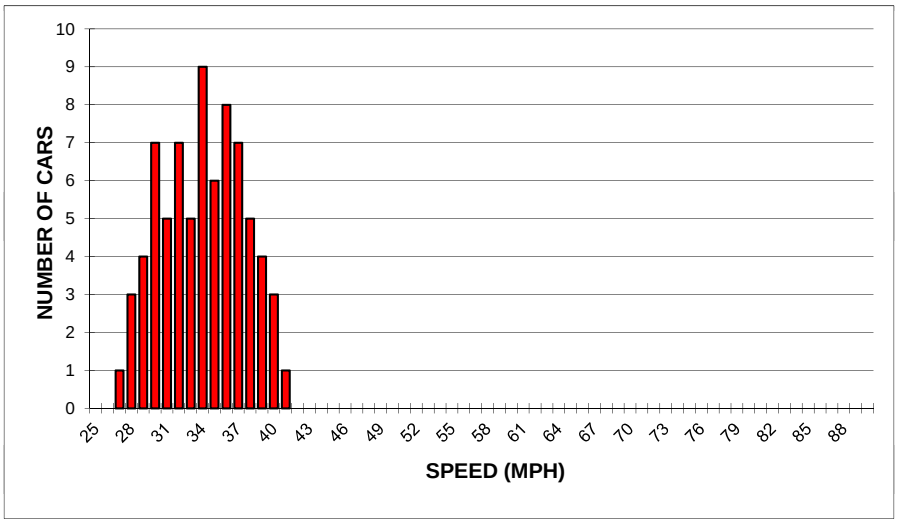
80	0	0	100





Loc 05 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Hathaway Street**
Segment: **From Lincoln Street to Wesley Street**
DIRECTION: **Both Directions** DATE: 8/11/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 11:30
WEATHER: Clear

50th Percentile Speed			35.0
85th Percentile Speed			38.0
Number of Vehicles Observed			150
Average Speed			35
Range of Speeds	27	to	42

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			83
Percent over Pace Speed			9
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	1	1	1
28	4	3	3
29	6	4	7
30	11	7	15
31	10	7	21
32	13	9	30
33	10	7	37
34	17	11	48
35	12	8	56
36	19	13	69
37	15	10	79
38	11	7	86
39	7	5	91
40	9	6	97
41	4	3	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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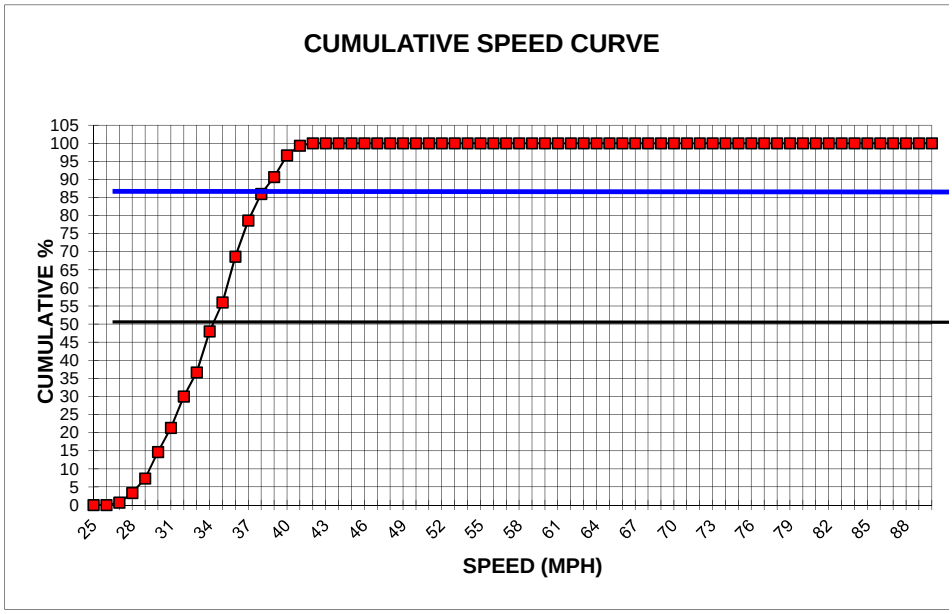
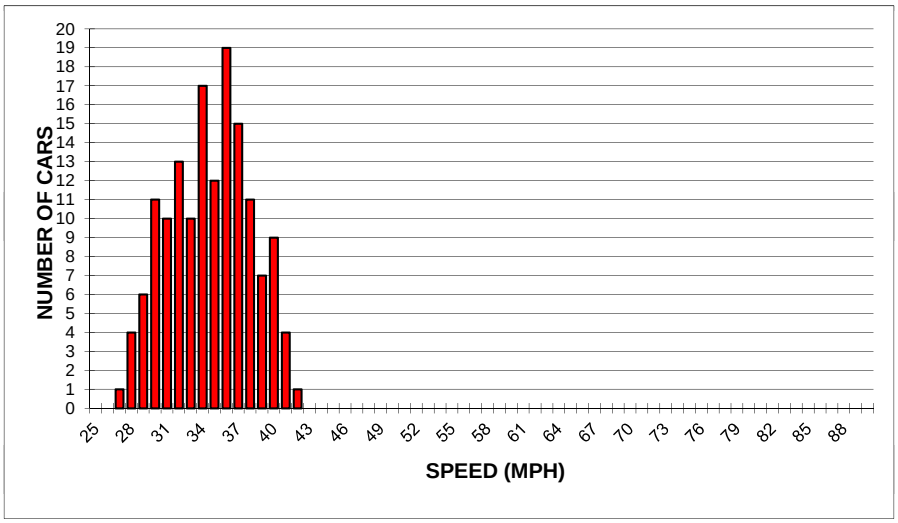
79	0	0	100
80	0	0	100





Loc 05 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "06"
Mountain Ave - From Mockingbird Lane to Wilson St

Location: Mountain Ave - Mockingbird Lane to Wilson St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/20/2011	85th %tile Speed: 39 mph
Posted Speed Limit: 40 mph	Average Speed: 36 mph
10 mph Pace Speed: 32 - 41 mph	Percent in Pace Speed: 85%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 0	At Intersections: 0	Mid-block: 0
Collision Rate: 0.00 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	2.0 mile long, 64-ft wide, straight roadway
Traffic:	1,600 ADT
Roadside:	Rural residential, mixed use, open/agriculture
Not Readily Apparent to Driver:	

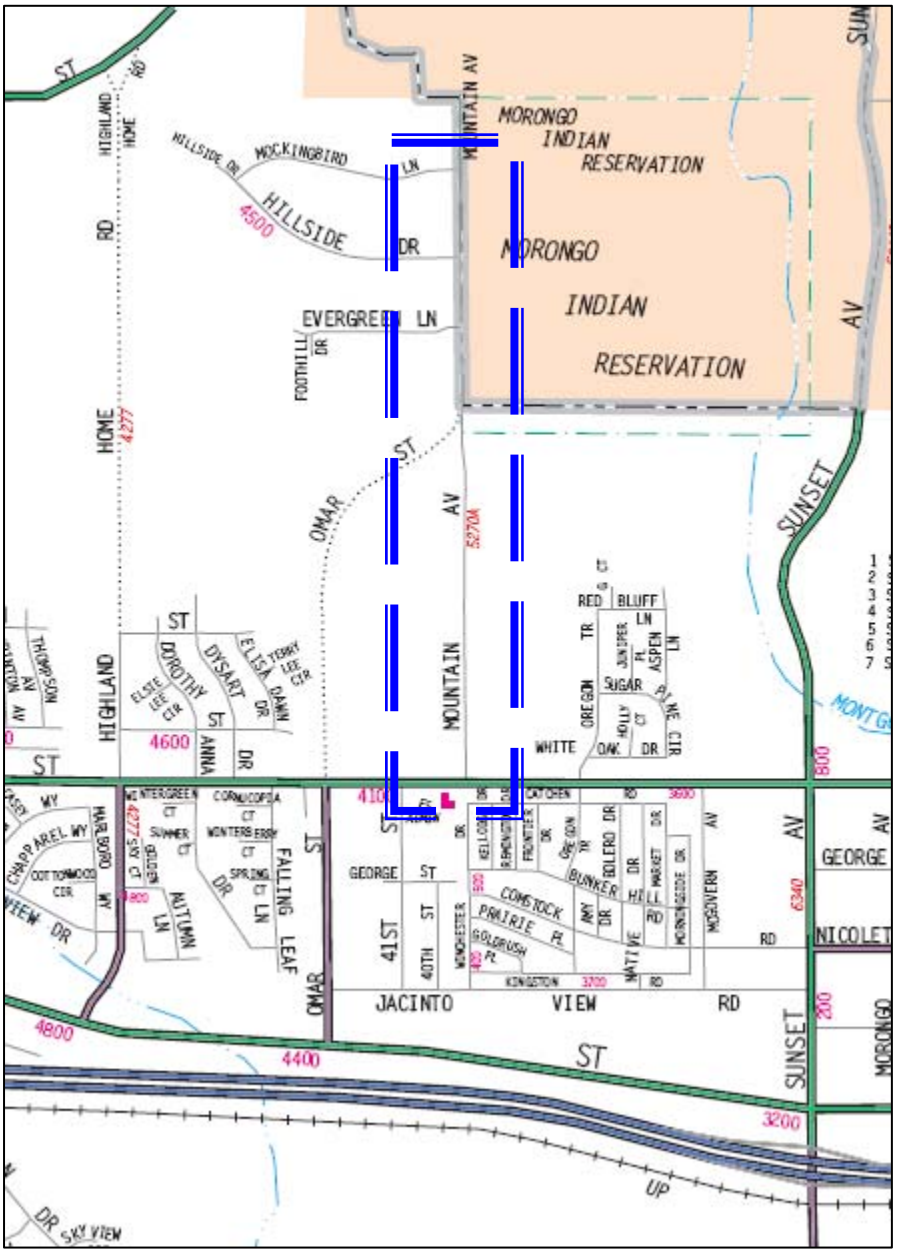
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph** (If recommendation below 85%tile, state reasons below.)

(*) - No recent collision records available

ZONE "06"

Radar Enforceable Speed Zone
Zone 06
Mountain Ave – From Mockingbird Lane to Wilson St.



Zone 06

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Mountain Avenue**
Segment: **From Wilson Street to Mockingbird Lane**
DIRECTION: **NB** DATE: 7/20/11
POSTED SPEED LIMITS: **40 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed	35.0	10 MPH Pace Speed	30 to 39
85th Percentile Speed	39.0	Percent in Pace Speed	81
Number of Vehicles Observed	75	Percent over Pace Speed	11
Average Speed	35	Percent under Pace Speed	8
Range of Speeds	27 to 43		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	1	1	1
28	3	4	5
29	2	3	8
30	5	7	15
31	2	3	17
32	5	7	24
33	6	8	32
34	8	11	43
35	10	13	56
36	9	12	68
37	6	8	76
38	5	7	83
39	5	7	89
40	4	5	95
41	3	4	99
42	0	0	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
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61	0	0	100
62	0	0	100
63	0	0	100
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66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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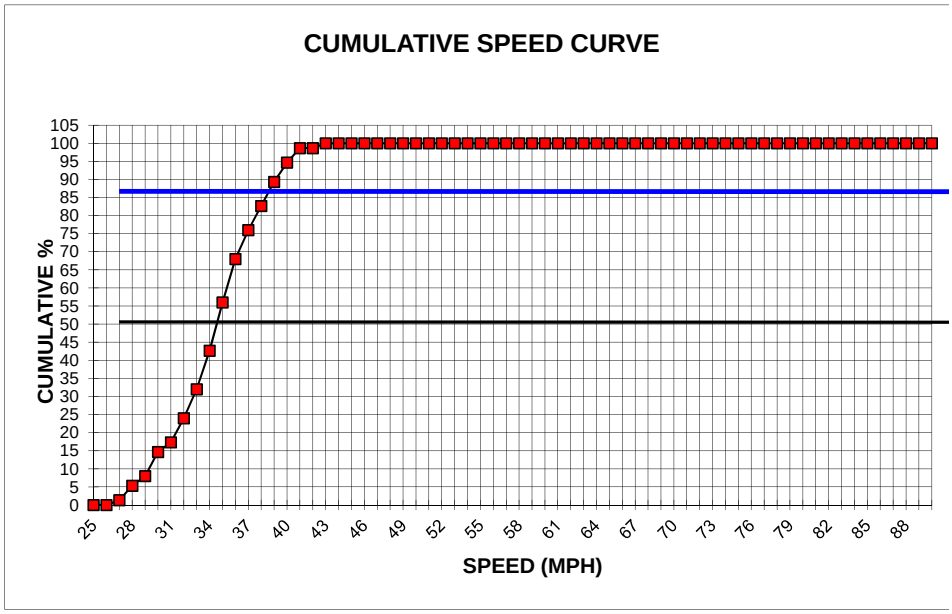
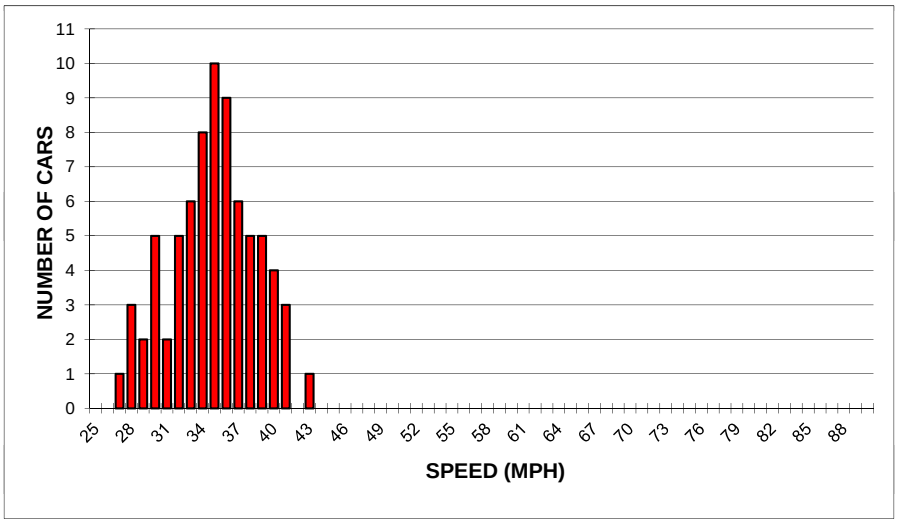
79	0	0	100
80	0	0	100





Loc 06 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Mountain Avenue**
Segment: **From Wilson Street to Mockingbird Lane**
DIRECTION: **SB** DATE: 7/20/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	37.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	39.0	Percent in Pace Speed	88
Number of Vehicles Observed	75	Percent over Pace Speed	4
Average Speed	36	Percent under Pace Speed	8
Range of Speeds	26 to 44		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	0	0	1
28	1	1	3
29	0	0	3
30	3	4	7
31	1	1	8
32	2	3	11
33	6	8	19
34	5	7	25
35	6	8	33
36	10	13	47
37	8	11	57
38	16	21	79
39	6	8	87
40	5	7	93
41	2	3	96
42	1	1	97
43	0	0	97
44	2	3	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
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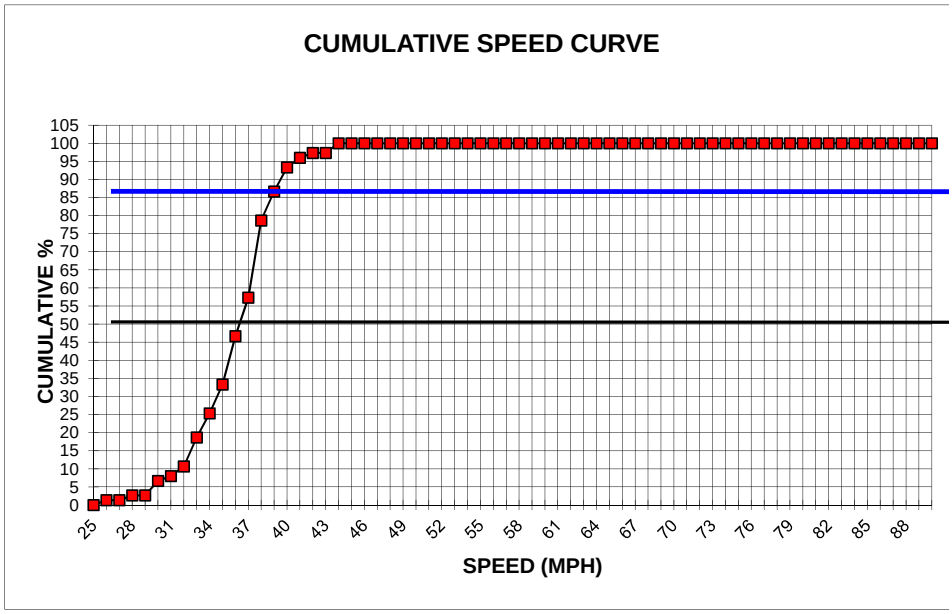

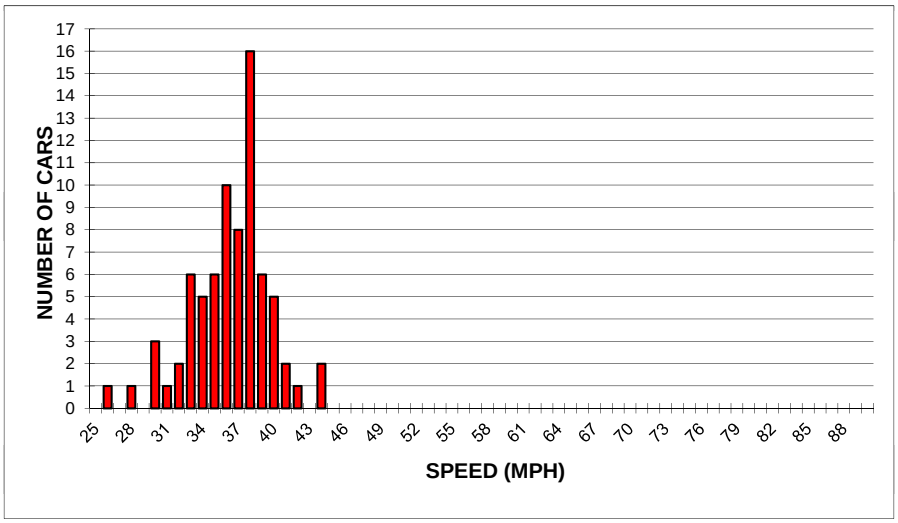

Loc 06 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Mountain Avenue**
Segment: **From Wilson Street to Mockingbird Lane**
DIRECTION: **Both Directions** DATE: 7/20/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00- 12:00
WEATHER: Clear

50th Percentile Speed	36.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	39.0	Percent in Pace Speed	85
Number of Vehicles Observed	150	Percent over Pace Speed	3
Average Speed	36	Percent under Pace Speed	13
Range of Speeds	26 to 44		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	1
28	4	3	4
29	2	1	5
30	8	5	11
31	3	2	13
32	7	5	17
33	12	8	25
34	13	9	34
35	16	11	45
36	19	13	57
37	14	9	67
38	21	14	81
39	11	7	88
40	9	6	94
41	5	3	97
42	1	1	98
43	1	1	99
44	2	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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76	0	0	100
77	0	0	100
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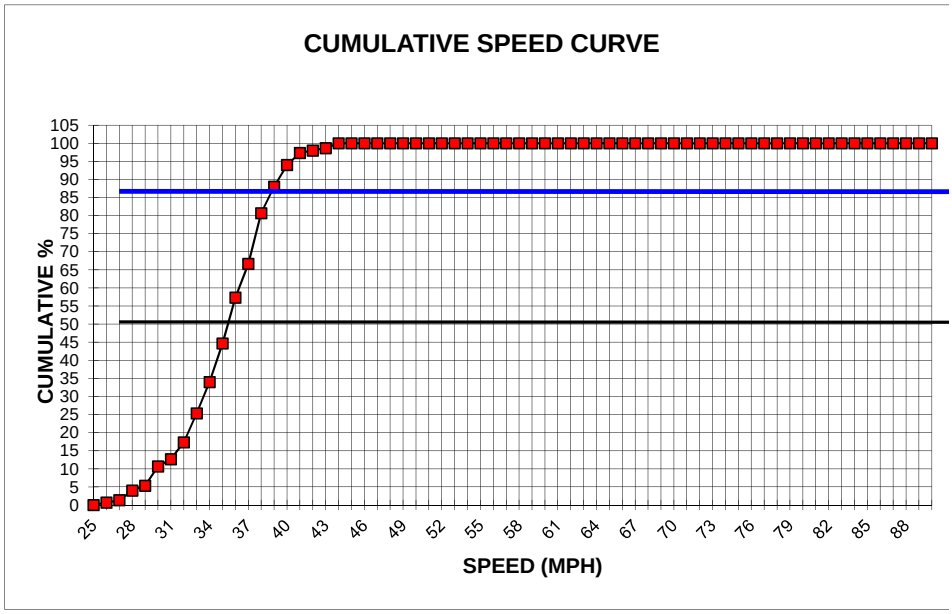
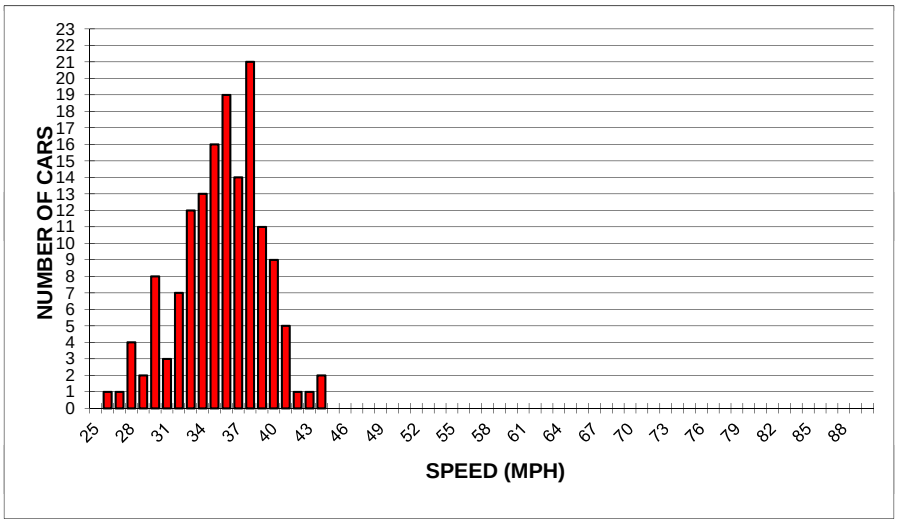
79	0	0	100
80	0	0	100





Loc 06 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "07"
Highland Springs Avenue - From Oak Valley Pkwy to N. City Limit (E. Side Only)

Highland Springs Avenue - From Oak Valley Pkwy to N. City Limit (E. Side Only)	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/20/2011	85th %tile Speed: 54 mph
Posted Speed Limit: 50 mph	Average Speed: 50 mph
10 mph Pace Speed: 45 - 54 mph	Percent in Pace Speed: 69%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 0	At Intersections: 0	Mid-block: 0
Collision Rate: 0.00 (MVM)	State Avg. Rate: 3.35 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	1.3 mile long, 64-ft wide, straight roadway
Traffic:	2,100 ADT
Roadside:	Open/agriculture
Not Readily Apparent to Driver:	Consistency with Southbound Direction (Beaumont)

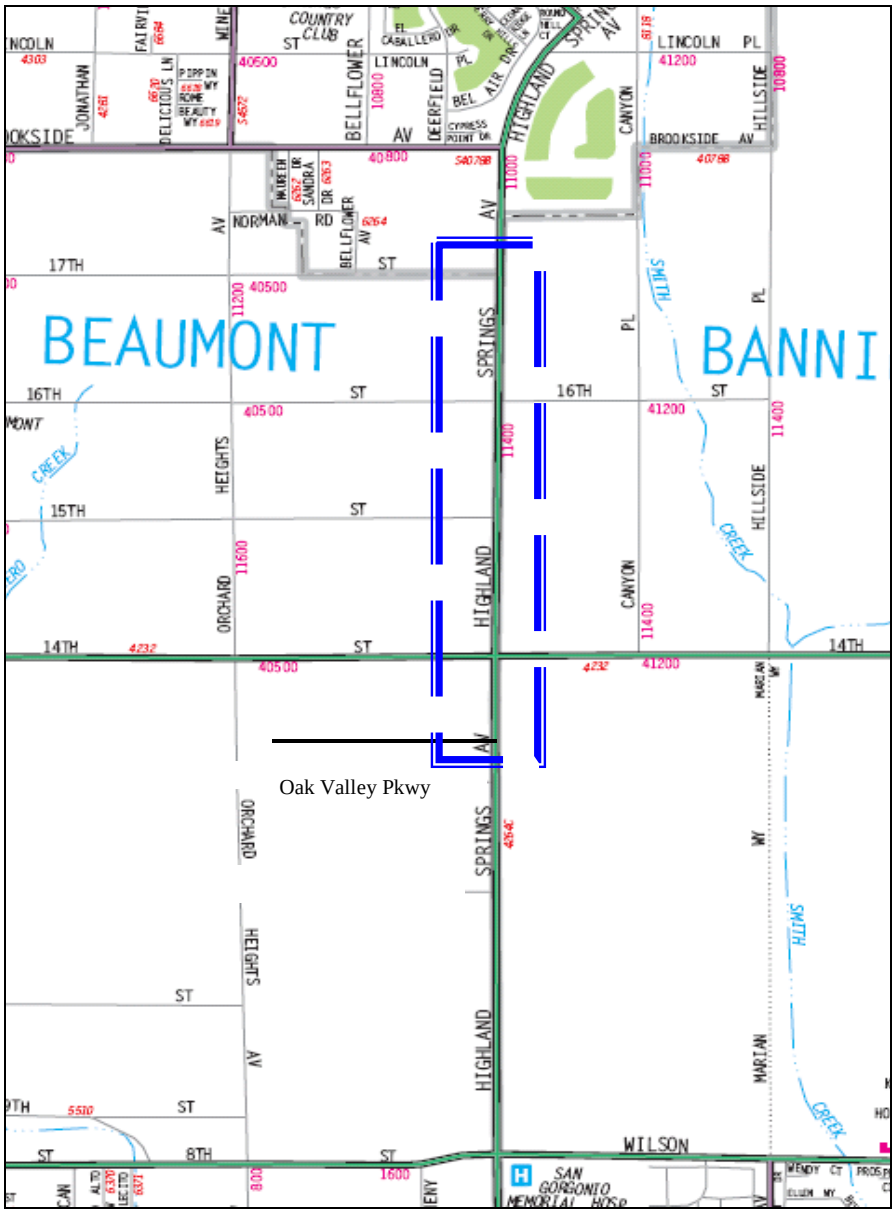
PART IV - RECOMMENDATIONS

Recommended Speed Limit: **50 mph** (If recommendation below 85%tile, state reasons below.)

(*) - No recent collision records available

ZONE "07"

Radar Enforceable Speed Zone
Zone 07
Highland Springs Ave – From Oak Valley Pkwy to N. City Limit (East Side Only)



Zone 07

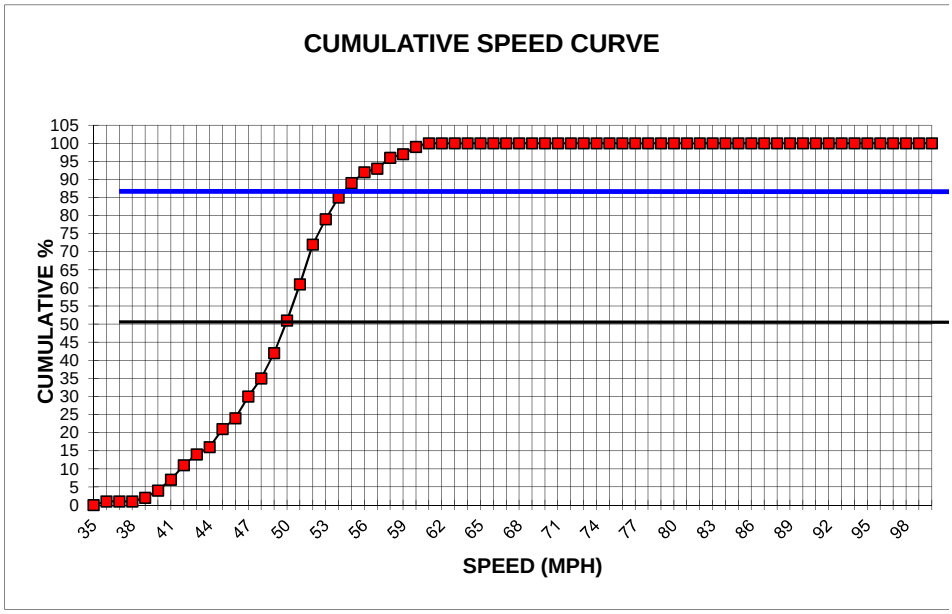
SPEED ZONE SURVEY SHEET

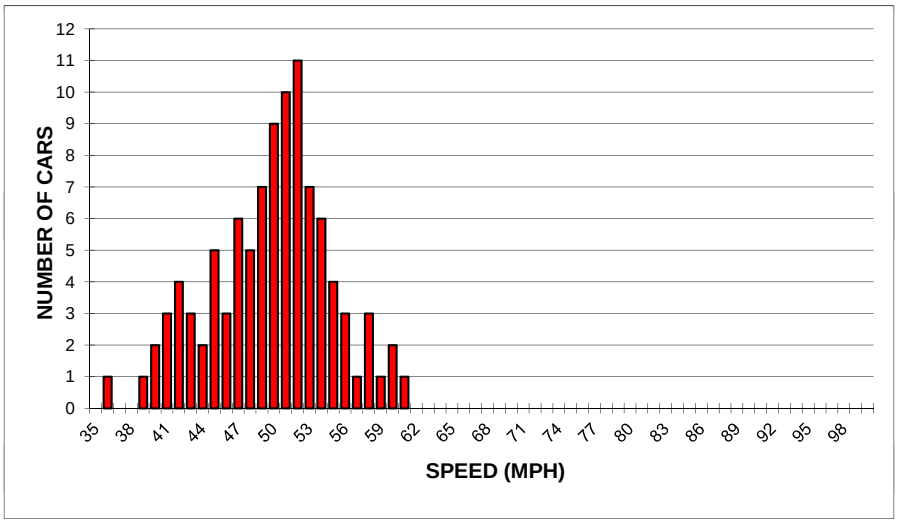
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Highland Spring Avenue**
Segment: **From Oak Valley Pkwy to N. City Limit**
DIRECTION: **NB** DATE: 7/20/11
POSTED SPEED LIMITS: **50 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed	50.0	10 MPH Pace Speed	45 to 54
85th Percentile Speed	54.0	Percent in Pace Speed	69
Number of Vehicles Observed	100	Percent over Pace Speed	15
Average Speed	50	Percent under Pace Speed	16
Range of Speeds	36 to 61		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
35	0	0	0
36	1	1	1
37	0	0	1
38	0	0	1
39	1	1	2
40	2	2	4
41	3	3	7
42	4	4	11
43	3	3	14
44	2	2	16
45	5	5	21
46	3	3	24
47	6	6	30
48	5	5	35
49	7	7	42
50	9	9	51
51	10	10	61
52	11	11	72
53	7	7	79
54	6	6	85
55	4	4	89
56	3	3	92
57	1	1	93
58	3	3	96
59	1	1	97
60	2	2	99
61	1	1	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100
86	0	0	100
87	0	0	100
88	0	0	100
89	0	0	100
90	0	0	100





Loc 07 NB

City of Banning
Engineering and Traffic Survey Summary

Zone "08"
Highland Springs Avenue - From Oak Valley Pkwy to Wilson St (E. Side Only)

Location: Highland Springs Avenue - Oak Valley Pkwy to Wilson St (E. Side Only)	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/20/2011	85th %tile Speed: 51 mph
Posted Speed Limit: 50 mph	Average Speed: 45 mph
10 mph Pace Speed: 41 - 50 mph	Percent in Pace Speed: 66%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 3	At Intersections: 3	Mid-block: 0
Collision Rate: 3.65 (MVM)	State Avg. Rate: 3.35 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.75 mile long, 64-ft wide, straight roadway
Traffic:	3,000 ADT
Roadside:	Rural residential with open/agriculture
Not Readily Apparent to Driver:	Consistency with Southbound Direction (Beaumont)

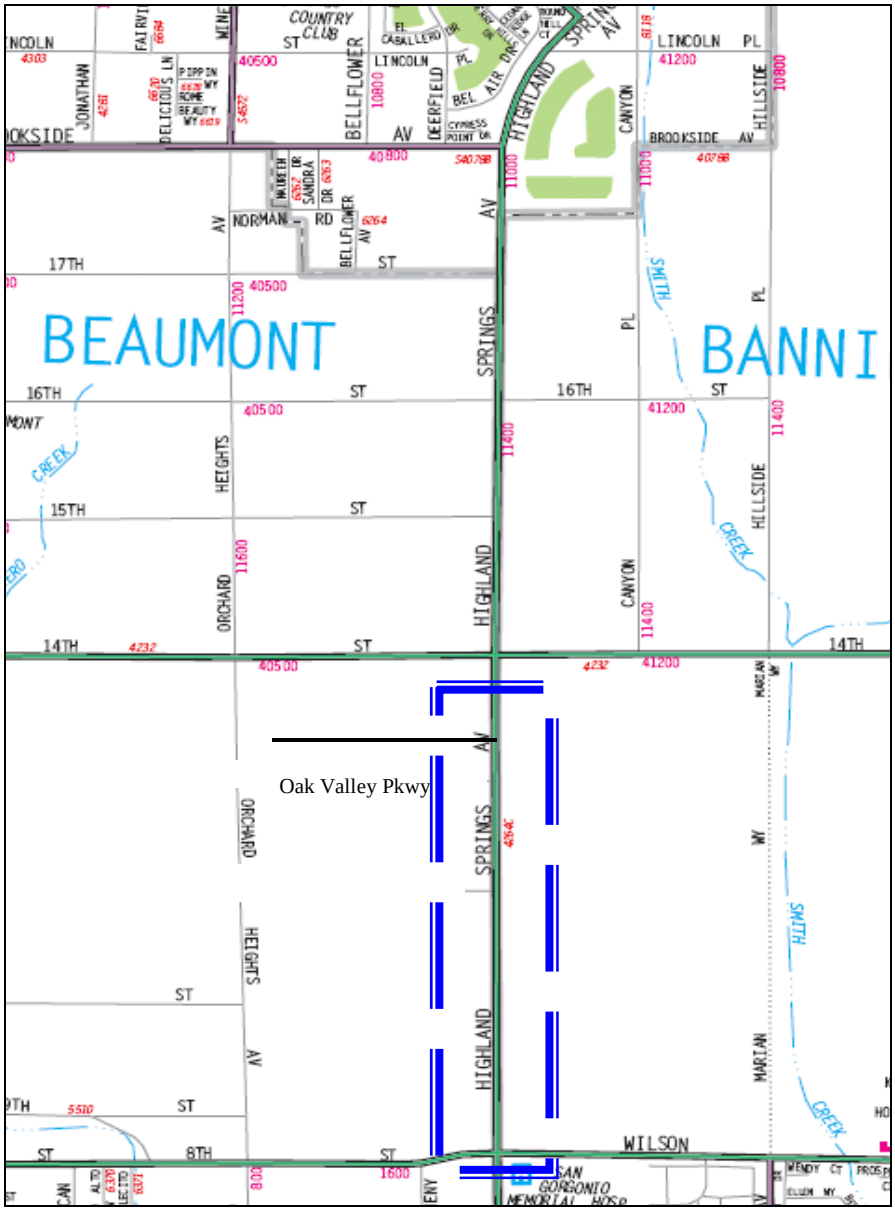
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**50 mph**

(*) - No recent collision records available

ZONE "08"

Radar Enforceable Speed Zone
Zone 08
Highland Springs Ave – From Oak Valley Pkwy. To Wilson St.



Zone 08

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Highland Spring Avenue**
Segment: **From Wilson Street to Oak Valley Parkway**
DIRECTION: **NB** DATE: 7/20/11
POSTED SPEED LIMITS: **50 MPH** TIME: 15:00 - 16:30
WEATHER: Clear

50th Percentile Speed	45.0	10 MPH Pace Speed	41 to 50
85th Percentile Speed	51.0	Percent in Pace Speed	66
Number of Vehicles Observed	100	Percent over Pace Speed	16
Average Speed	45	Percent under Pace Speed	18
Range of Speeds	30 to 62		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	1	1	1
31	0	0	1
32	0	0	1
33	0	0	1
34	1	1	2
35	2	2	4
36	1	1	5
37	2	2	7
38	3	3	10
39	3	3	13
40	5	5	18
41	6	6	24
42	6	6	30
43	12	12	42
44	5	5	47
45	8	8	55
46	5	5	60
47	9	9	69
48	4	4	73
49	5	5	78
50	6	6	84
51	5	5	89
52	6	6	95
53	2	2	97
54	1	1	98
55	0	0	98
56	0	0	98
57	1	1	99
58	0	0	99
59	0	0	99
60	0	0	99
61	0	0	99
62	1	1	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
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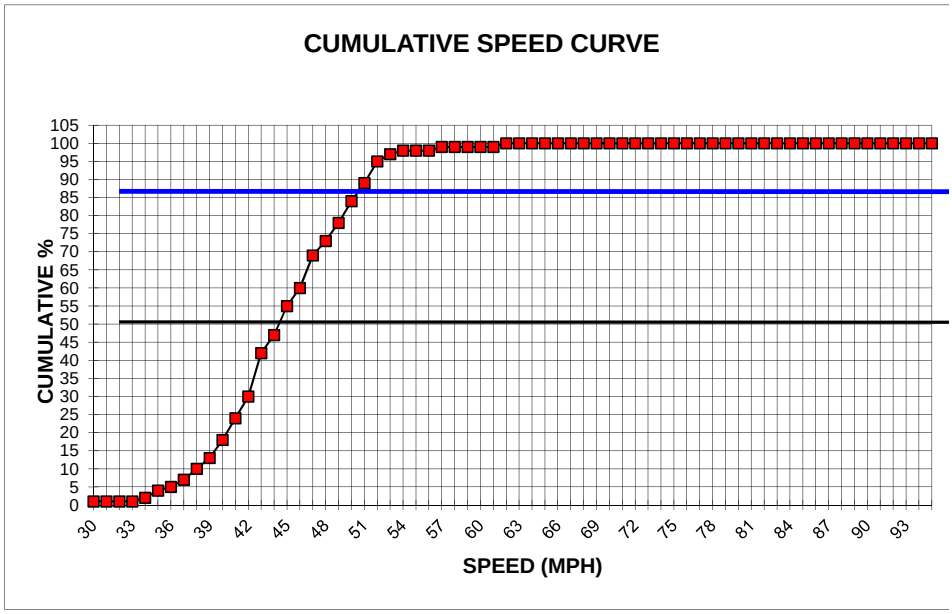
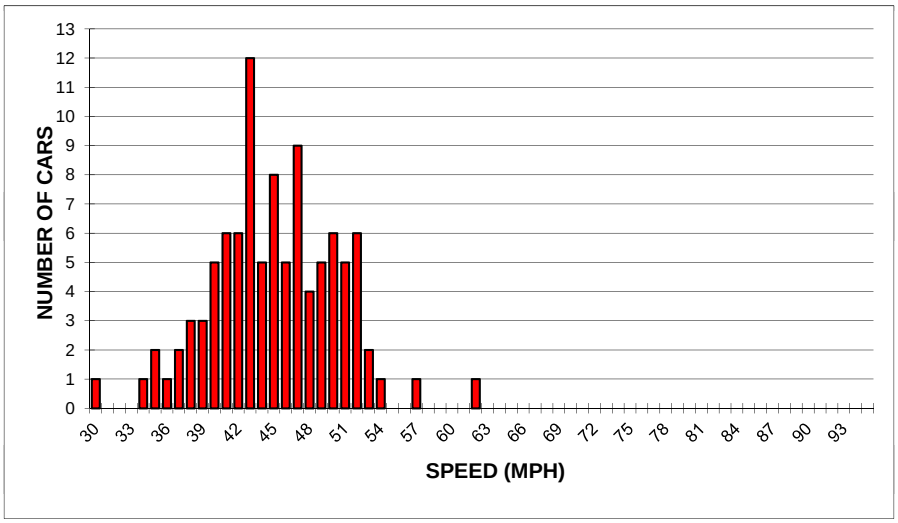
84	0	0	100
85	0	0	100





Loc 08 NB

City of Banning
Engineering and Traffic Survey Summary

Zone "09"
Highland Springs Avenue - From Wilson St to Sun Lakes Blvd (East Side Only)

Location: Highland Springs Avenue - Wilson St to Sun Lakes Blvd (East Side Only)	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/21/2011	85th %tile Speed: 35 mph
Posted Speed Limit: 30 mph	Average Speed: 31 mph
10 mph Pace Speed: 26 - 35 mph	Percent in Pace Speed: 82%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 34	At Intersections: 16	Mid-block: 18
Collision Rate: 13.60 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 64-ft wide, straight roadway
Traffic:	13,700 ADT
Roadside:	Urban commercial
Not Readily Apparent to Driver:	Consistency with Southbound Direction (Beaumont)

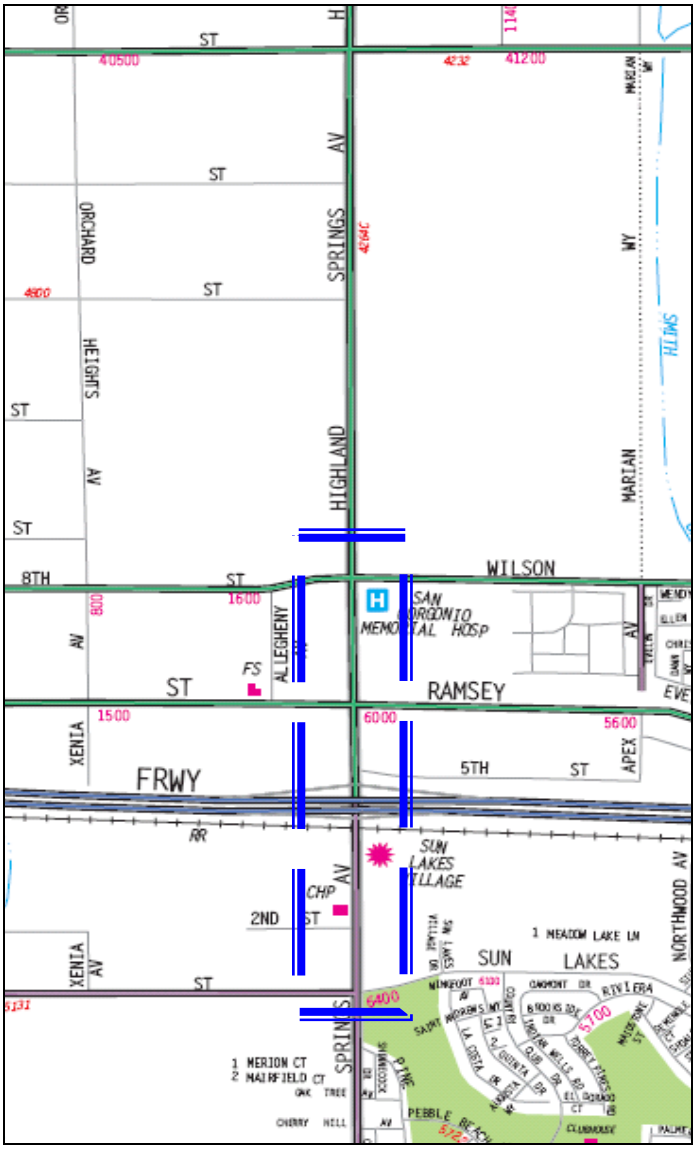
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "09"

Radar Enforceable Speed Zone
Zone 09
Highland Springs Ave – From Wilson St. To Sun Lakes Blvd.
(East Side Only)



Zone 09

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Highland Spring Avenue**
Segment: **From Sun Lakes Boulevard to Wilson Street**
DIRECTION: **NB** DATE: 7/21/11
POSTED SPEED LIMITS: **30 MPH** TIME: 10:20 - 12:00
WEATHER: Clear

50th Percentile Speed	30.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	35.0	Percent in Pace Speed	82
Number of Vehicles Observed	100	Percent over Pace Speed	10
Average Speed	31	Percent under Pace Speed	8
Range of Speeds	20 to 41		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	0	0	1
22	1	1	2
23	1	1	3
24	3	3	6
25	2	2	8
26	6	6	14
27	6	6	20
28	10	10	30
29	8	8	38
30	12	12	50
31	11	11	61
32	11	11	72
33	7	7	79
34	5	5	84
35	6	6	90
36	4	4	94
37	3	3	97
38	1	1	98
39	1	1	99
40	0	0	99
41	1	1	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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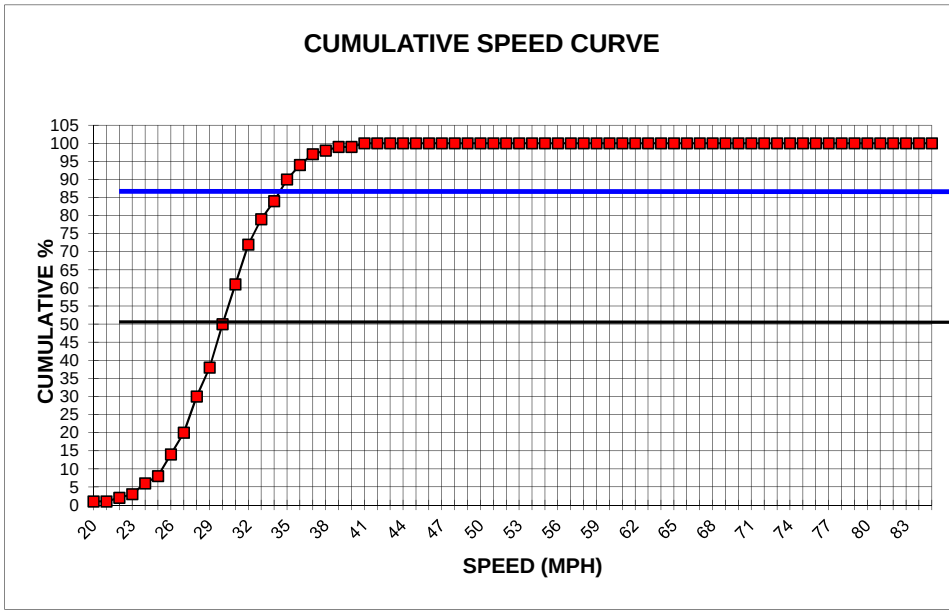
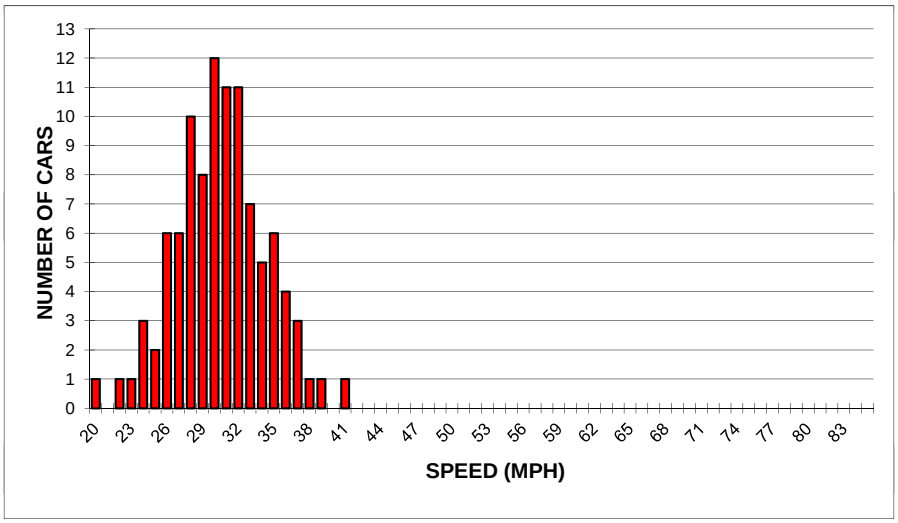
74	0	0	100
75	0	0	100





Loc 09 NB

City of Banning
Engineering and Traffic Survey Summary

Zone "10"
Highland Springs Avenue - Sun Lakes Blvd to S. City Limit (E. Side Only)

Location: Highland Springs Avenue - Sun Lakes Blvd to S. City Line (East Side Only)	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/21/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 40 mph	Average Speed: 36 mph
10 mph Pace Speed: 30 - 39 mph	Percent in Pace Speed: 86%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 0	At Intersections: 0	Mid-block: 0
Collision Rate: 0.00 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	2.0 mile long, 40-ft wide, curviliner/straight roadway
Traffic:	1,800 ADT
Roadside:	Rural Open
Not Readily Apparent to Driver:	

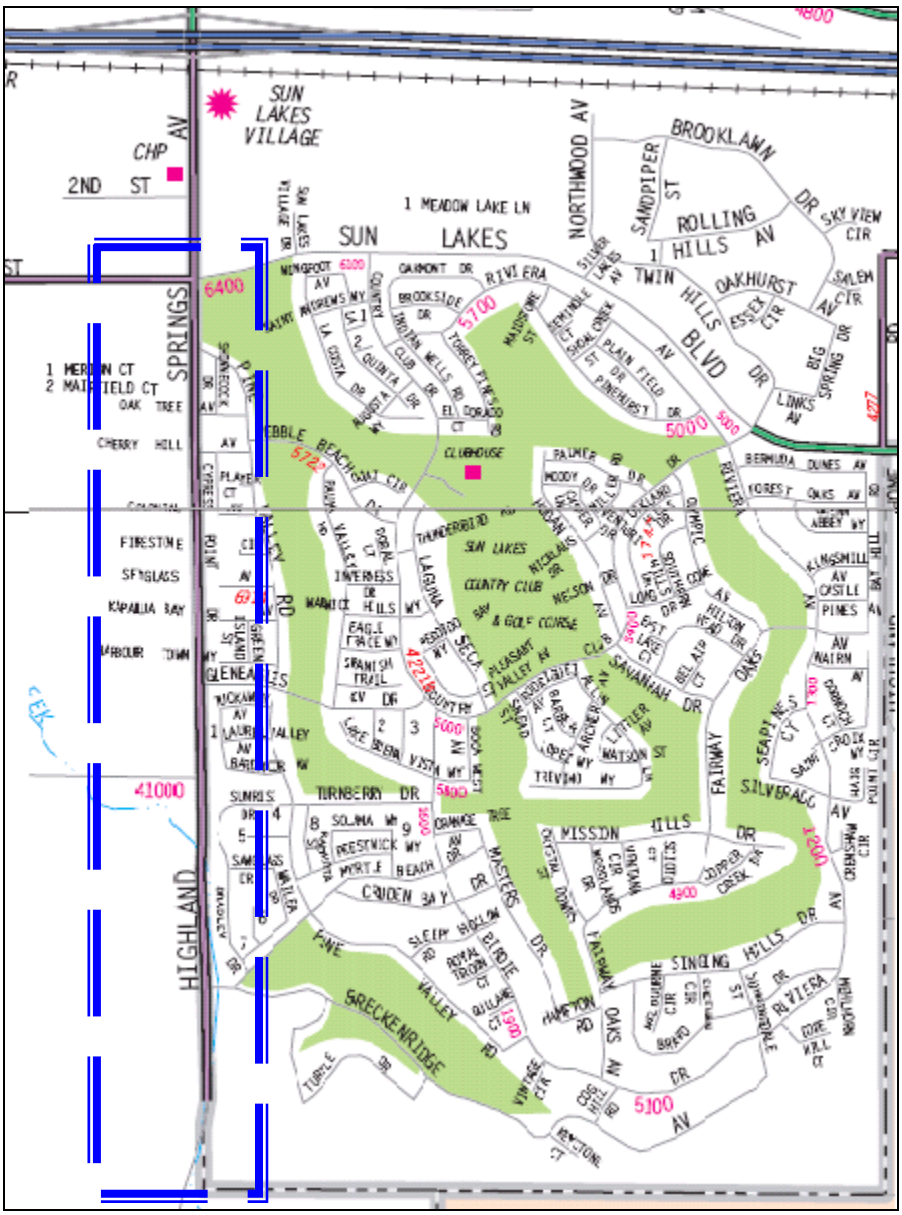
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "10"

Radar Enforceable Speed Zone
Zone 10
Highland Springs Ave – From Sun Lakes Blvd. to S. City Limit
(East Side Only)



Zone 10

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Highland Spring Avenue**
Segment: **From Sun Lakes Boulevard to South City Limit**
DIRECTION: **NB** DATE: 7/21/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	35.0	10 MPH Pace Speed	30 to 39
85th Percentile Speed	38.0	Percent in Pace Speed	86
Number of Vehicles Observed	100	Percent over Pace Speed	11
Average Speed	36	Percent under Pace Speed	3
Range of Speeds	25 to 45		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	1	1	1
26	0	0	1
27	0	0	1
28	0	0	1
29	2	2	3
30	4	4	7
31	4	4	11
32	7	7	18
33	11	11	29
34	5	5	34
35	16	16	50
36	10	10	60
37	14	14	74
38	12	12	86
39	3	3	89
40	3	3	92
41	4	4	96
42	2	2	98
43	1	1	99
44	0	0	99
45	1	1	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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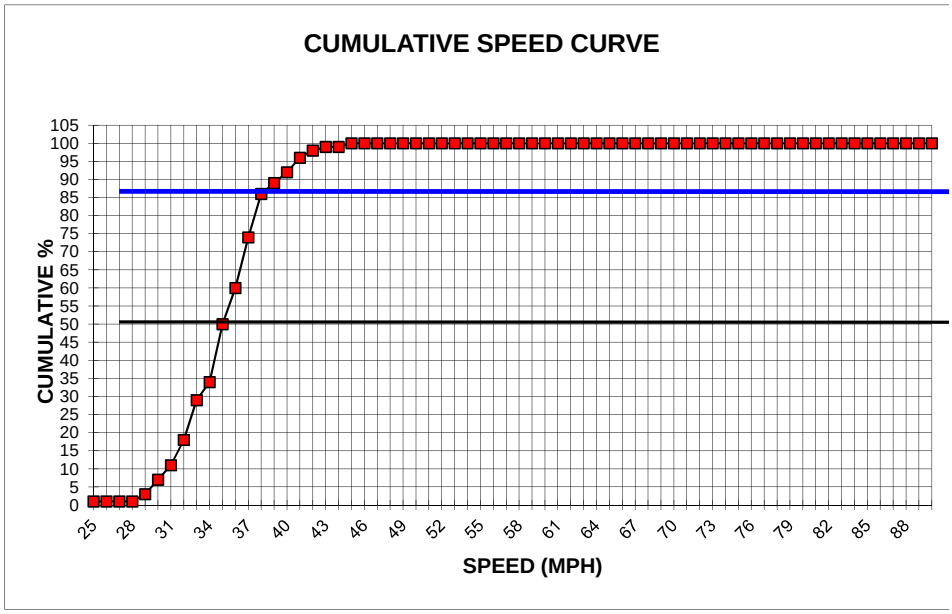
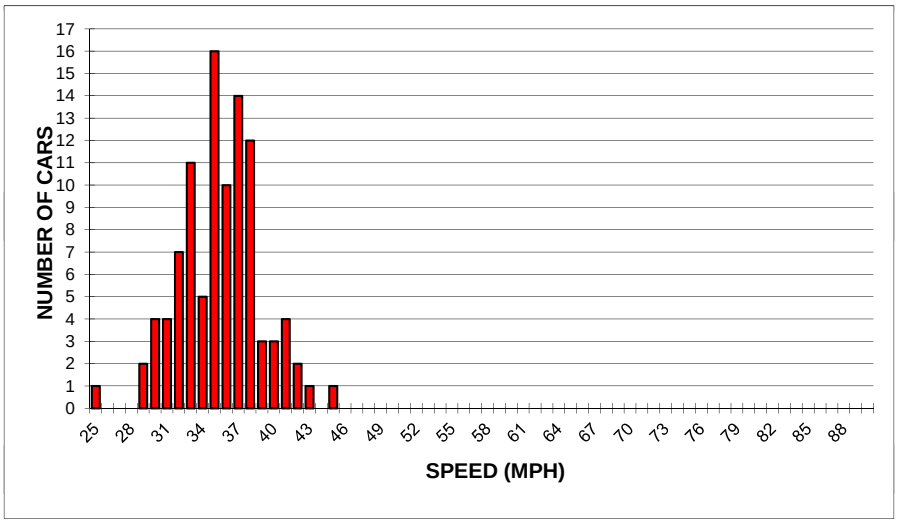
79	0	0	100
80	0	0	100





Loc 10 NB

City of Banning
Engineering and Traffic Survey Summary

Zone "11"
San Gorgonio Ave - From Lombardy Lane to Wilson St

San Gorgonio Ave - From Lombardy Lane to Wilson St	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/25/2011	85th %tile Speed: 34 mph
Posted Speed Limit: 35 mph	Average Speed: 31 mph
10 mph Pace Speed: 26 - 35 mph	Percent in Pace Speed: 89%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 2	Mid-block: 0
Collision Rate: 3.48 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.75 mile long, 44-ft wide, straight roadway
Traffic:	2,100 ADT
Roadside:	Urban residential, density meets CVC §515
Not Readily Apparent to Driver:	Narrow roadway, sharp curves, parked vehicles

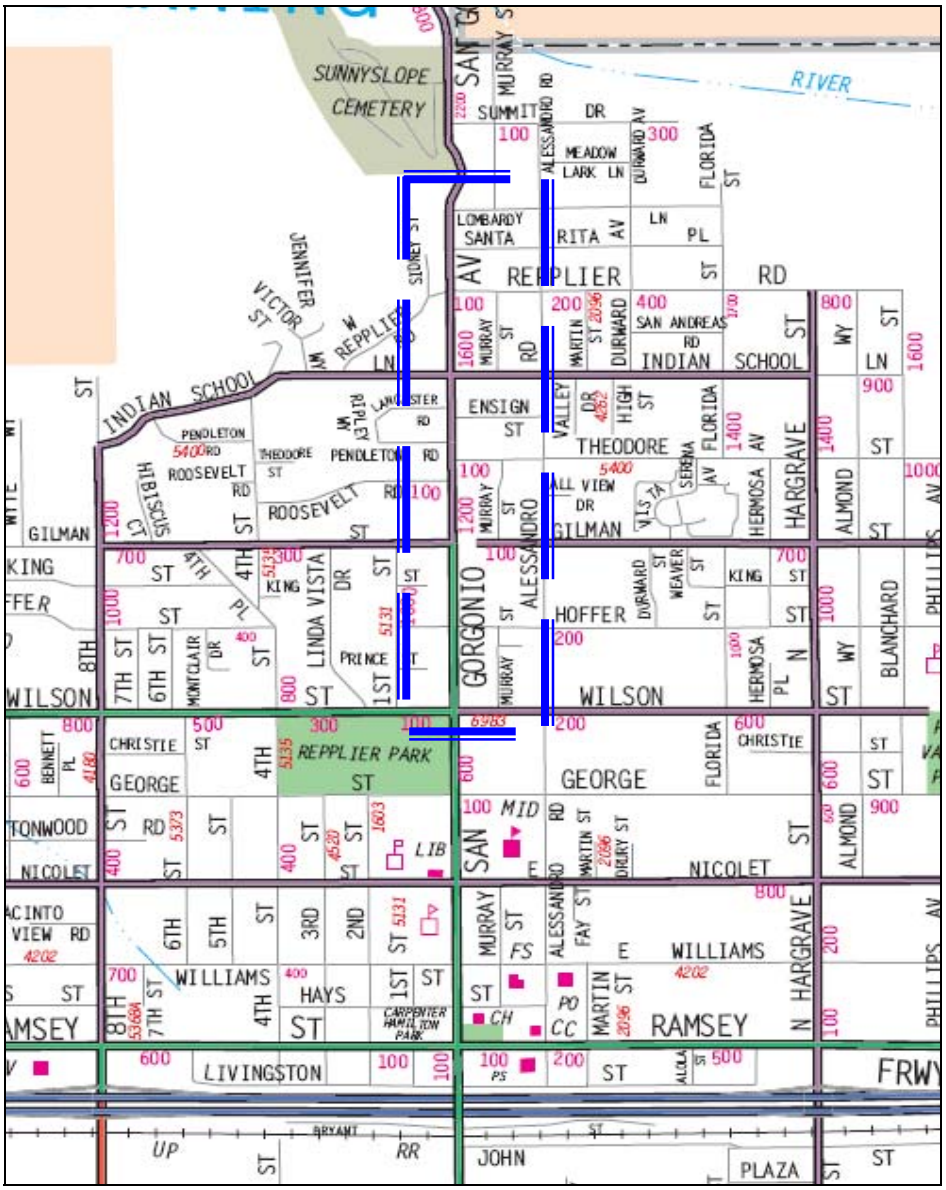
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**30 mph**

(*) - No recent collision records available

ZONE "11"

Radar Enforceable Speed Zone
Zone 11
San Gorgonio Ave – From Lombardy Lane To Wilson St.



Zone 11

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **San Gorgonio Avenue**
Segment: **From Lombardy Lane to Wilson Street**
DIRECTION: **NB** DATE: 7/25/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 10:30
WEATHER: Clear

50th Percentile Speed			31.0
85th Percentile Speed			34.0
Number of Vehicles Observed			75
Average Speed			31
Range of Speeds	25	to	40

10 MPH Pace Speed	26	to	35
Percent in Pace Speed			89
Percent over Pace Speed			8
Percent under Pace Speed			3

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	2	3	3
26	4	5	8
27	4	5	13
28	6	8	21
29	8	11	32
30	7	9	41
31	9	12	53
32	10	13	67
33	11	15	81
34	3	4	85
35	5	7	92
36	1	1	93
37	3	4	97
38	1	1	99
39	0	0	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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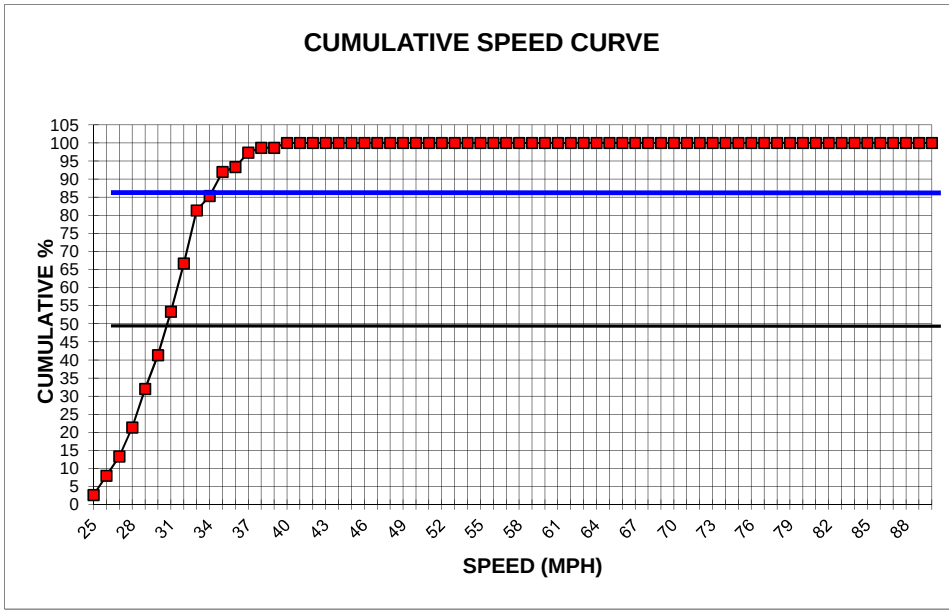
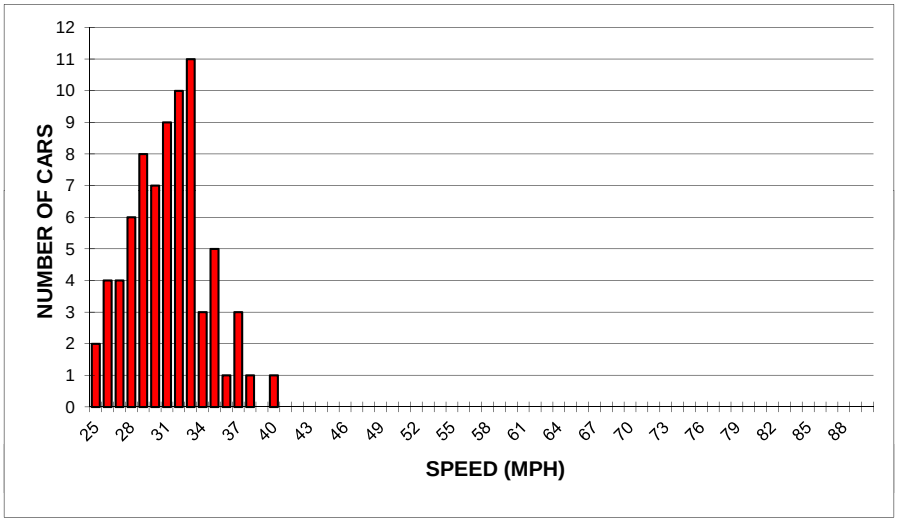
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 11 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **San Gorgonio Avenue**
Segment: **From Lombardy Lane to Wilson Street**
DIRECTION: **SB** DATE: 7/25/11
POSTED SPEED LIMITS: **35 MPH** TIME: 11:00 - 12:00
WEATHER: Clear

50th Percentile Speed			31.0
85th Percentile Speed			34.0
Number of Vehicles Observed			75
Average Speed			32
Range of Speeds	25	to	39

10 MPH Pace Speed	26	to	35
Percent in Pace Speed			91
Percent over Pace Speed			8
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	1	1	1
26	2	3	4
27	5	7	11
28	6	8	19
29	5	7	25
30	7	9	35
31	11	15	49
32	12	16	65
33	8	11	76
34	6	8	84
35	6	8	92
36	1	1	93
37	2	3	96
38	2	3	99
39	1	1	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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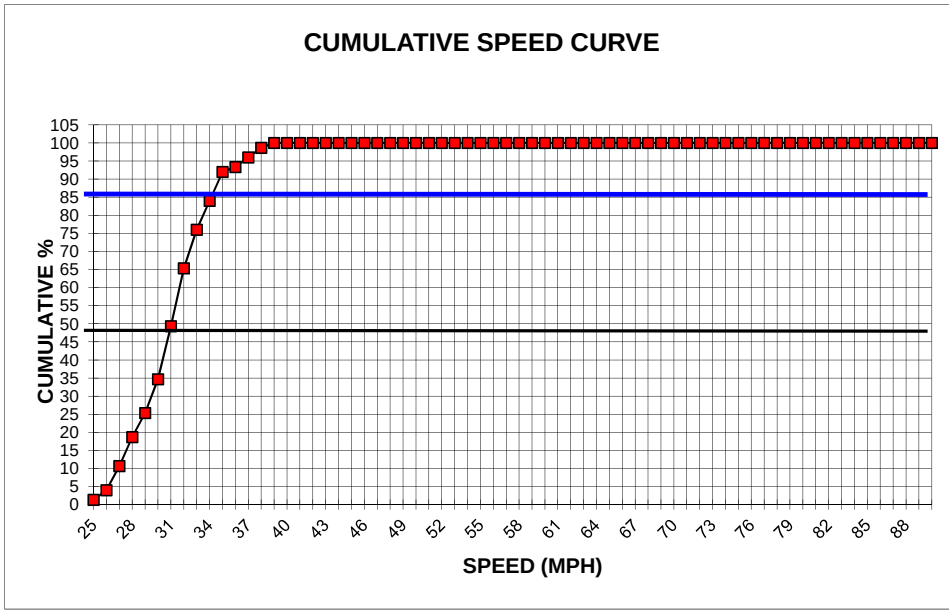
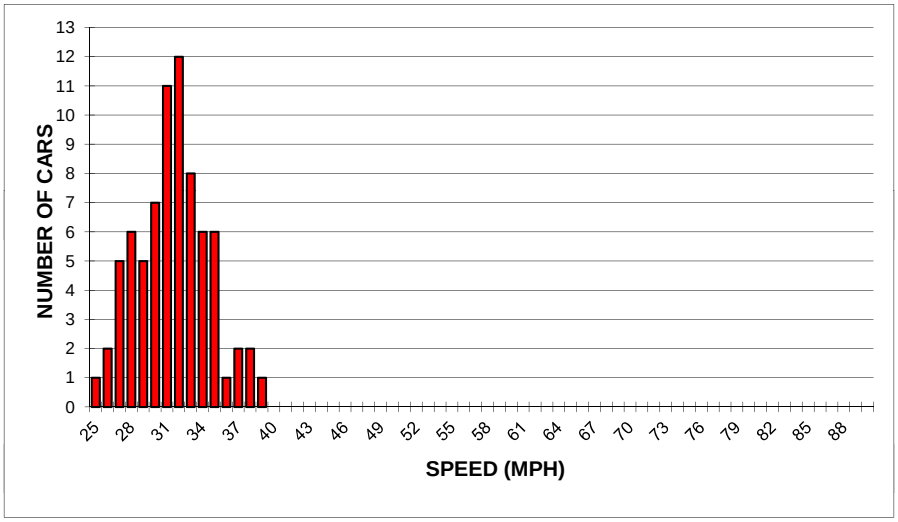
79	0	0	100
80	0	0	100





Loc 11 SB

SPEED ZONE SURVEY SHEET

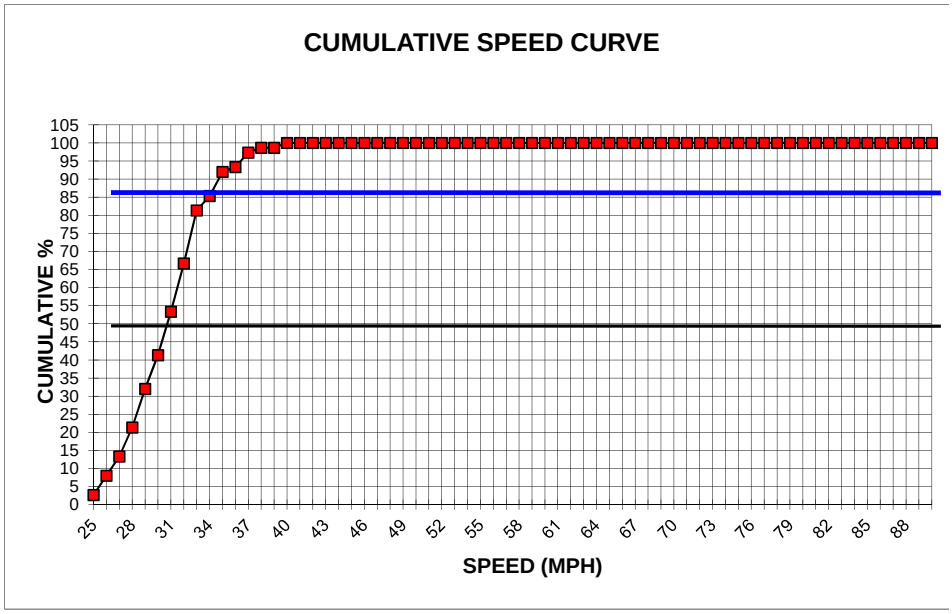
City of Banning
Public Works Department
Kahono Oei, City Engineer

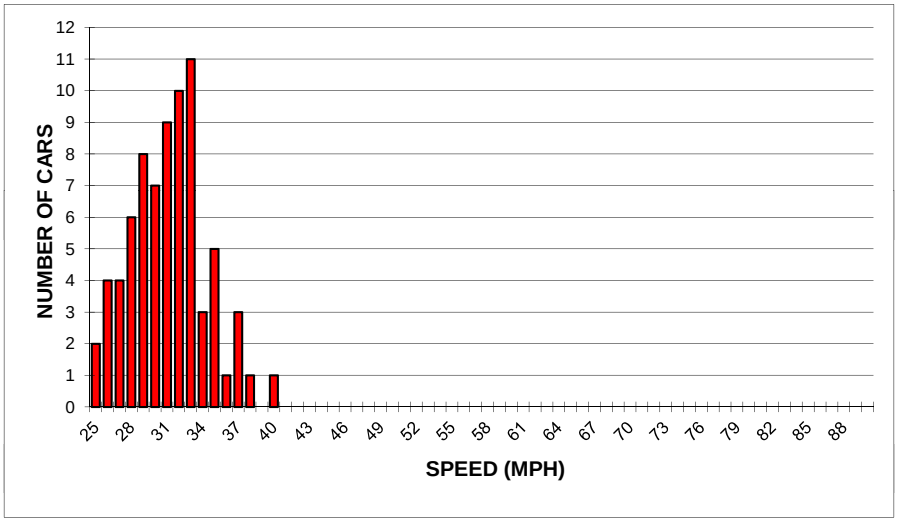
Street **San Gorgonio Avenue**
Segment: **From Lombardy Lane to Wilson Street**
DIRECTION: **Both Directions** DATE: 7/25/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 12:00
WEATHER: Clear

50th Percentile Speed			31.0
85th Percentile Speed			34.0
Number of Vehicles Observed			75
Average Speed			31
Range of Speeds	25	to	40

10 MPH Pace Speed	26	to	35
Percent in Pace Speed			89
Percent over Pace Speed			8
Percent under Pace Speed			3

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	2	3	3
26	4	5	8
27	4	5	13
28	6	8	21
29	8	11	32
30	7	9	41
31	9	12	53
32	10	13	67
33	11	15	81
34	3	4	85
35	5	7	92
36	1	1	93
37	3	4	97
38	1	1	99
39	0	0	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 11 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "12"
San Gorgonio Ave - From Wilson St to Ramsey St

Location: San Gorgonio Ave - From Wilson St to Ramsey St	Original Limits: From Wilson St to Lincoln St

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/26/2011	85th %tile Speed: 30 mph
Posted Speed Limit: 25 mph	Average Speed: 27 mph
10 mph Pace Speed: 23 - 32 mph	Percent in Pace Speed: 92%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 5	At Intersections: 5	Mid-block: 0
Collision Rate: 8.30 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 44-ft wide, straight roadway
Traffic:	3,300 ADT
Roadside:	Urban commercial and residential, density meets CVC §235
Not Readily Apparent to Driver:	Uniformity of speed zones

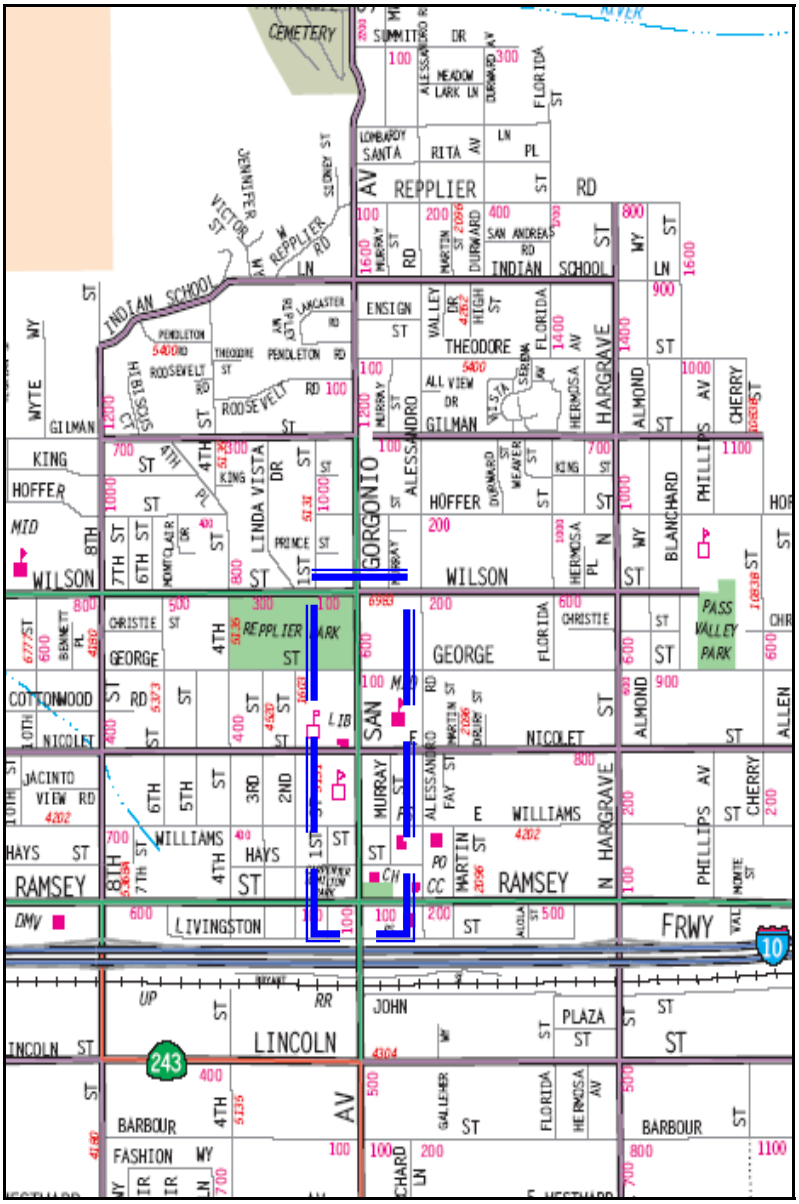
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**30 mph**

(*) - No recent collision records available

ZONE "12"

Radar Enforceable Speed Zone
Zone 12
San Gorgonio Ave – From Wilson St. to Ramsey St.



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **San Gorgonio Avenue**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **NB** DATE: 7/26/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 14:30
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			26
Range of Speeds	20	to	34

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			93
Percent over Pace Speed			3
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	3	3	4
22	4	4	8
23	12	12	20
24	7	7	27
25	16	16	43
26	8	8	51
27	13	13	64
28	12	12	76
29	9	9	85
30	8	8	93
31	4	4	97
32	2	2	99
33	0	0	99
34	1	1	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
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54	0	0	100
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58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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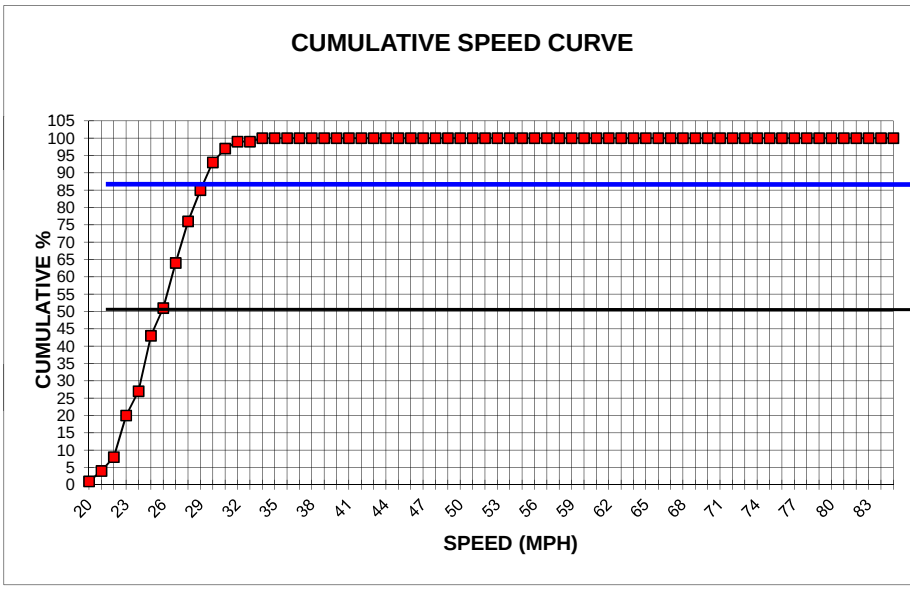
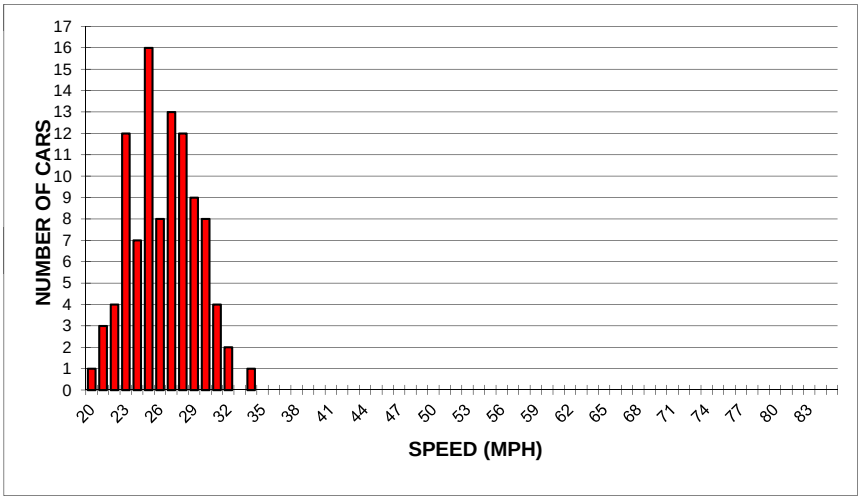
74	0	0	100
75	0	0	100





SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **San Gorgonio Avenue**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **SB** DATE: 7/26/11
POSTED SPEED LIMITS: **25 MPH** TIME: 15:00 - 16:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			30.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	21	to	34

10 MPH Pace Speed	23	to	32
Percent in Pace Speed			92
Percent over Pace Speed			3
Percent under Pace Speed			5

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	3	3	3
22	2	2	5
23	4	4	9
24	6	6	15
25	13	13	28
26	11	11	39
27	15	15	54
28	14	14	68
29	9	9	77
30	10	10	87
31	4	4	91
32	6	6	97
33	2	2	99
34	1	1	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
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60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
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66	0	0	100
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68	0	0	100
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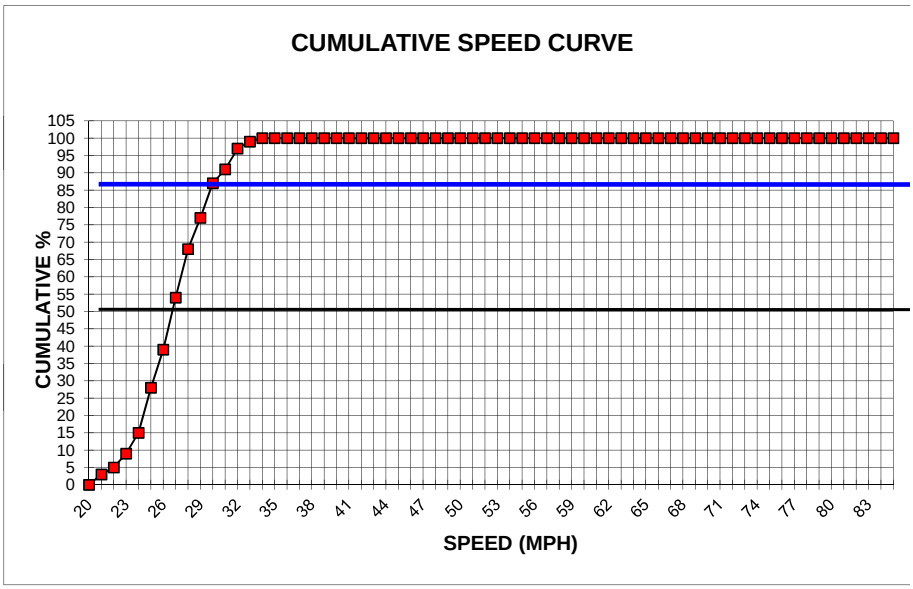
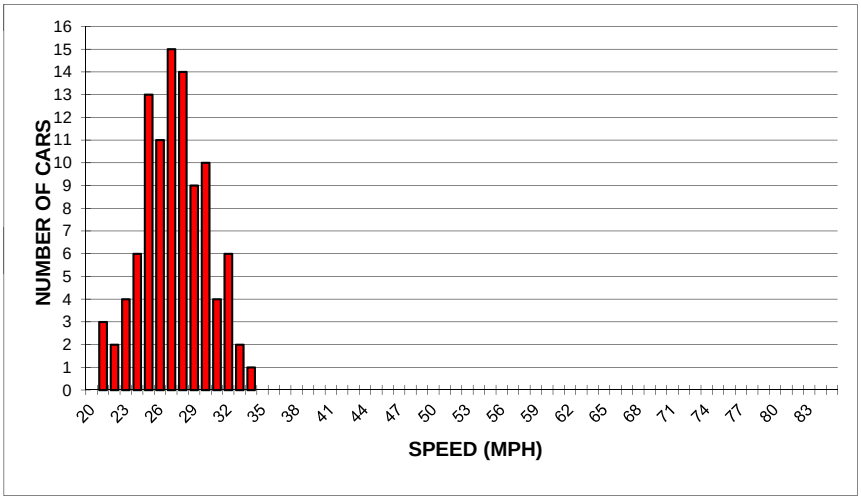
74	0	0	100
75	0	0	100





SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **San Gorgonio Avenue**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **Both Directions** DATE: 7/26/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 16:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			30.0
Number of Vehicles Observed			200
Average Speed			27
Range of Speeds	20	to	34

10 MPH Pace Speed	23	to	32
Percent in Pace Speed			92
Percent over Pace Speed			2
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	6	3	4
22	6	3	7
23	16	8	15
24	13	7	21
25	29	15	36
26	19	10	45
27	28	14	59
28	26	13	72
29	18	9	81
30	18	9	90
31	8	4	94
32	8	4	98
33	2	1	99
34	2	1	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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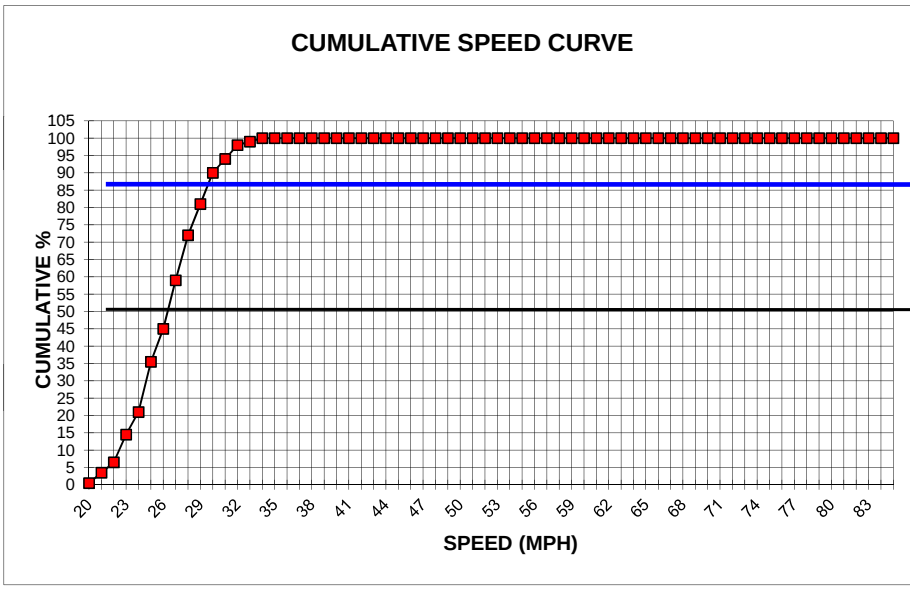
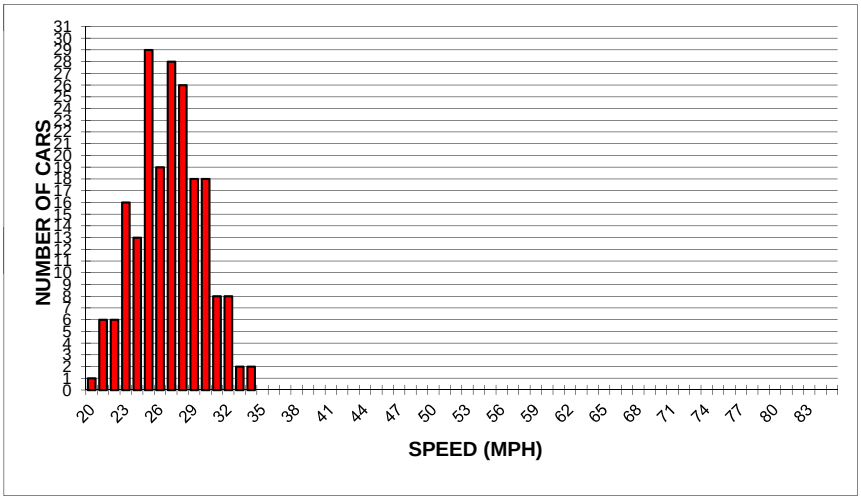
73	0	0	100
74	0	0	100
75	0	0	100





City of Banning
Engineering and Traffic Survey Summary

Zone "13"
San Gorgonio Ave - From Ramsey St to Lincoln St

Location: San Gorgonio Ave - From Ramsey St to Lincoln St	Original Limits: From Wilson St to Lincoln St

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/27/2011	85th %tile Speed: 33 mph
Posted Speed Limit: 25 mph	Average Speed: 30 mph
10 mph Pace Speed: 26 - 35 mph	Percent in Pace Speed: 91%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 4	At Intersections: 4	Mid-block: 0
Collision Rate: 13.28 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.25 mile long, 44-ft wide, straight roadway
Traffic:	3,300 ADT
Roadside:	Urban commercial and residential, density meets CVC §235
Not Readily Apparent to Driver:	

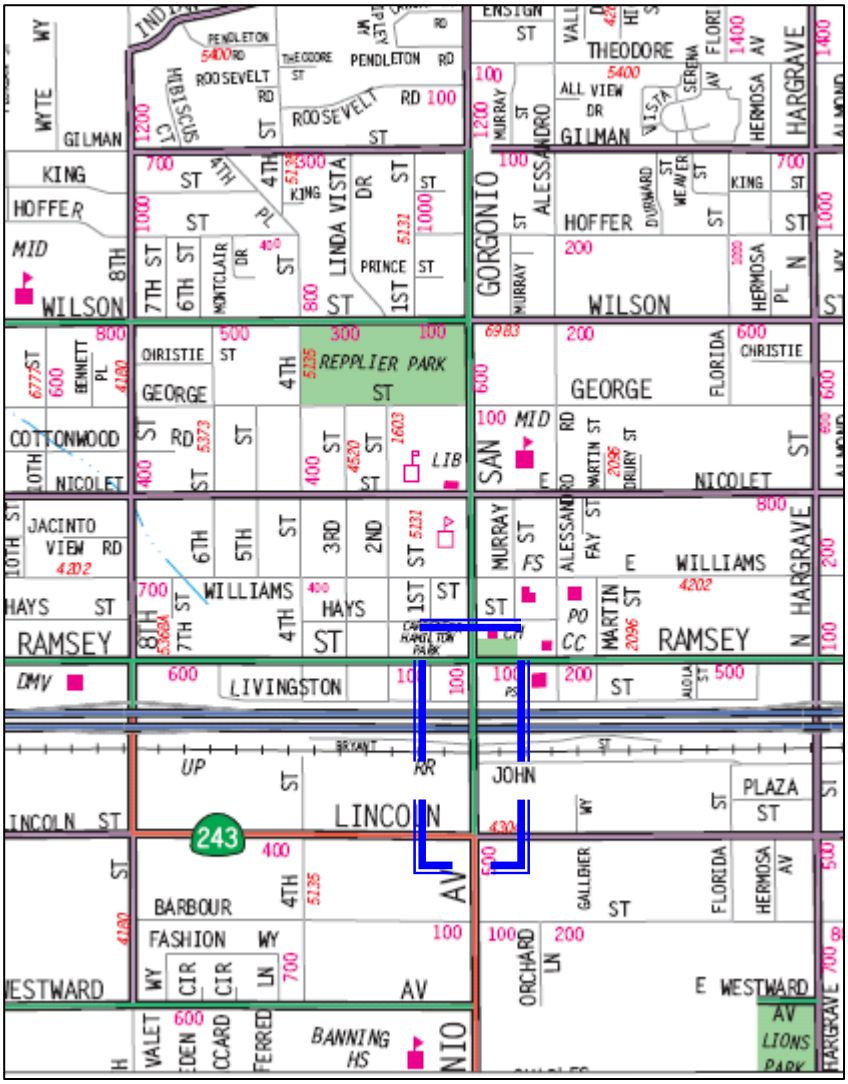
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**30 mph**

(*) - No recent collision records available

ZONE "13"

Radar Enforceable Speed Zone
Zone 13
San Gorgonio Ave – From Ramsey St. To Lincoln St.



Zone 13

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **San Gorgonio Avenue**
Segment: **From Ramsey Street to Lincoln Street**
DIRECTION: **NB** DATE: 7/27/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed			30.0
85th Percentile Speed			33.0
Number of Vehicles Observed			75
Average Speed			30
Range of Speeds	23	to	36

10 MPH Pace Speed	25	to	34
Percent in Pace Speed			92
Percent over Pace Speed			7
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	1	1	1
24	0	0	1
25	3	4	5
26	3	4	9
27	3	4	13
28	10	13	27
29	9	12	39
30	9	12	51
31	14	19	69
32	8	11	80
33	6	8	88
34	4	5	93
35	3	4	97
36	2	3	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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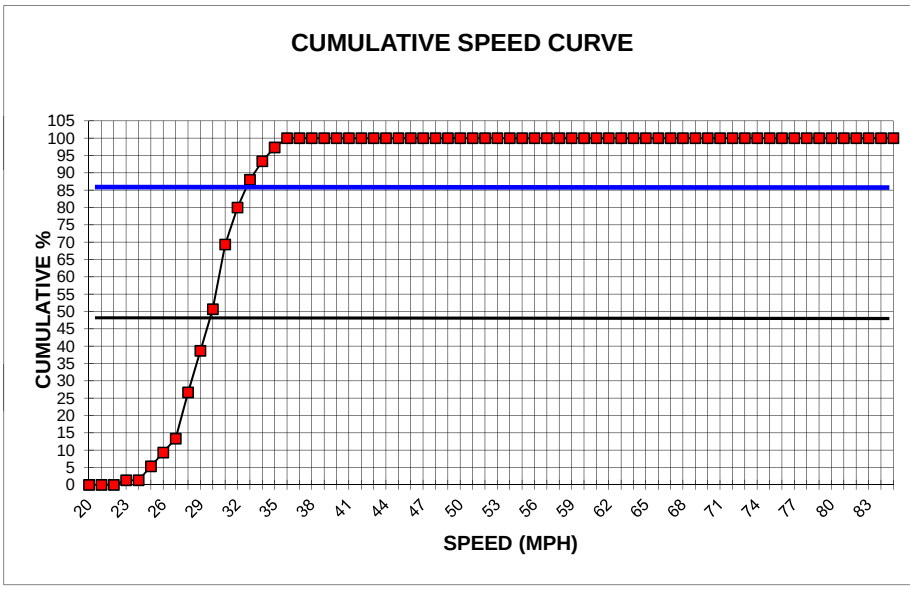
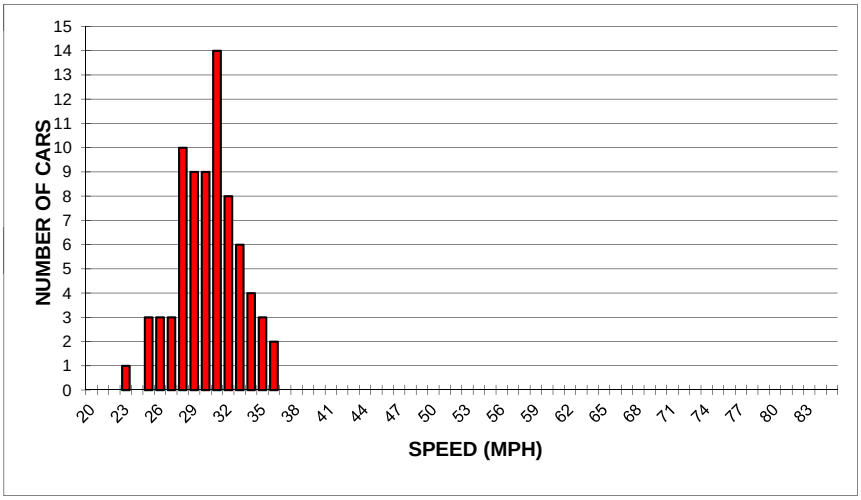
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **San Gorgonio Avenue**
Segment: **From Ramsey Street to Lincoln Street**
DIRECTION: **SB** DATE: 7/27/11
POSTED SPEED LIMITS: **25 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed			30.0
85th Percentile Speed			33.0
Number of Vehicles Observed			75
Average Speed			30
Range of Speeds	23	to	38

10 MPH Pace Speed	26	to	35
Percent in Pace Speed			92
Percent over Pace Speed			1
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	2	3	3
24	0	0	3
25	3	4	7
26	9	12	19
27	1	1	20
28	5	7	27
29	12	16	43
30	9	12	55
31	11	15	69
32	10	13	83
33	6	8	91
34	1	1	92
35	5	7	99
36	0	0	99
37	0	0	99
38	1	1	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
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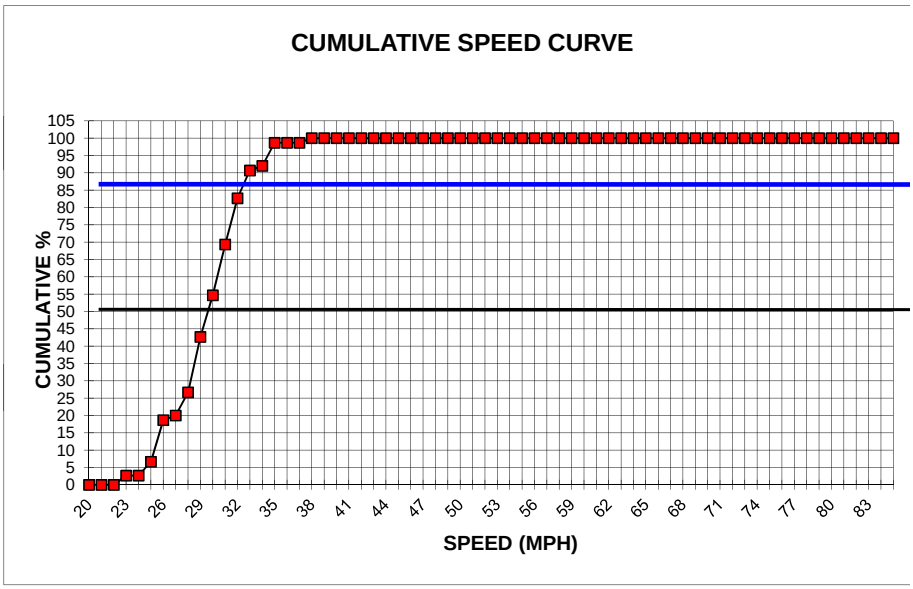

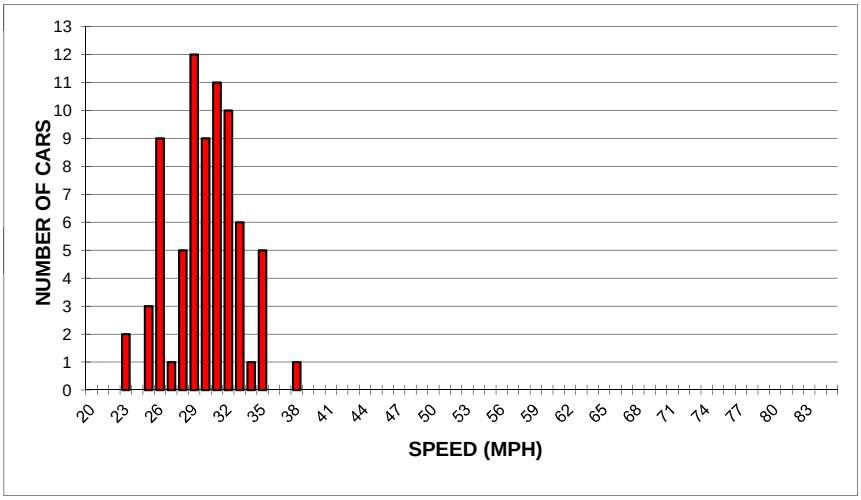

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **San Gorgonio Avenue**
Segment: **From Ramsey Street to Lincoln Street**
DIRECTION: **Both Directions** DATE: 7/27/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:00 - 12:00
WEATHER: Clear

50th Percentile Speed			30.0
85th Percentile Speed			33.0
Number of Vehicles Observed			150
Average Speed			30
Range of Speeds	23	to	38

10 MPH Pace Speed	26	to	35
Percent in Pace Speed			92
Percent over Pace Speed			2
Percent under Pace Speed			6

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	3	2	2
24	0	0	2
25	6	4	6
26	12	8	14
27	4	3	17
28	15	10	27
29	21	14	41
30	18	12	53
31	25	17	69
32	18	12	81
33	12	8	89
34	5	3	93
35	8	5	98
36	2	1	99
37	0	0	99
38	1	1	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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72	0	0	100
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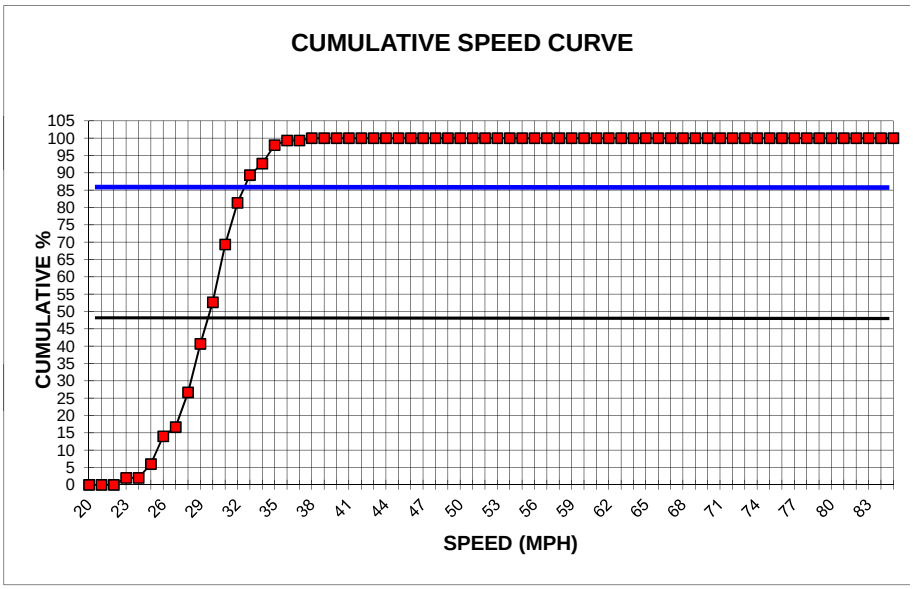
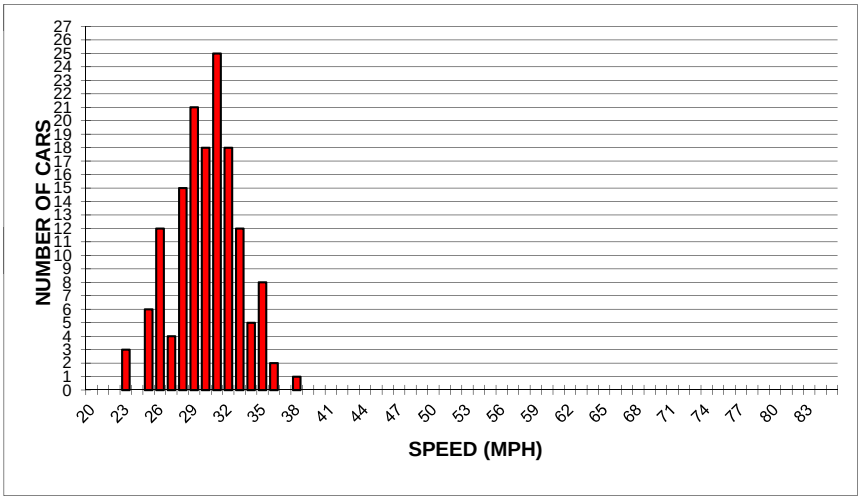
74	0	0	100
75	0	0	100





City of Banning
Engineering and Traffic Survey Summary

Zone "14"
Sunset Avenue - From Wilson St to Ramsey St

Location: Sunset Avenue - From Wilson St to Ramsey St	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/27/2011	85th %tile Speed: 39 mph
Posted Speed Limit: 35 mph	Average Speed: 35 mph
10 mph Pace Speed: 31 - 40 mph	Percent in Pace Speed: 84%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 5	At Intersections: 5	Mid-block: 0
Collision Rate: 2.21 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 64-ft wide, straight roadway
Traffic:	12,400 ADT
Roadside:	Urban commercial and residential
Not Readily Apparent to Driver:	

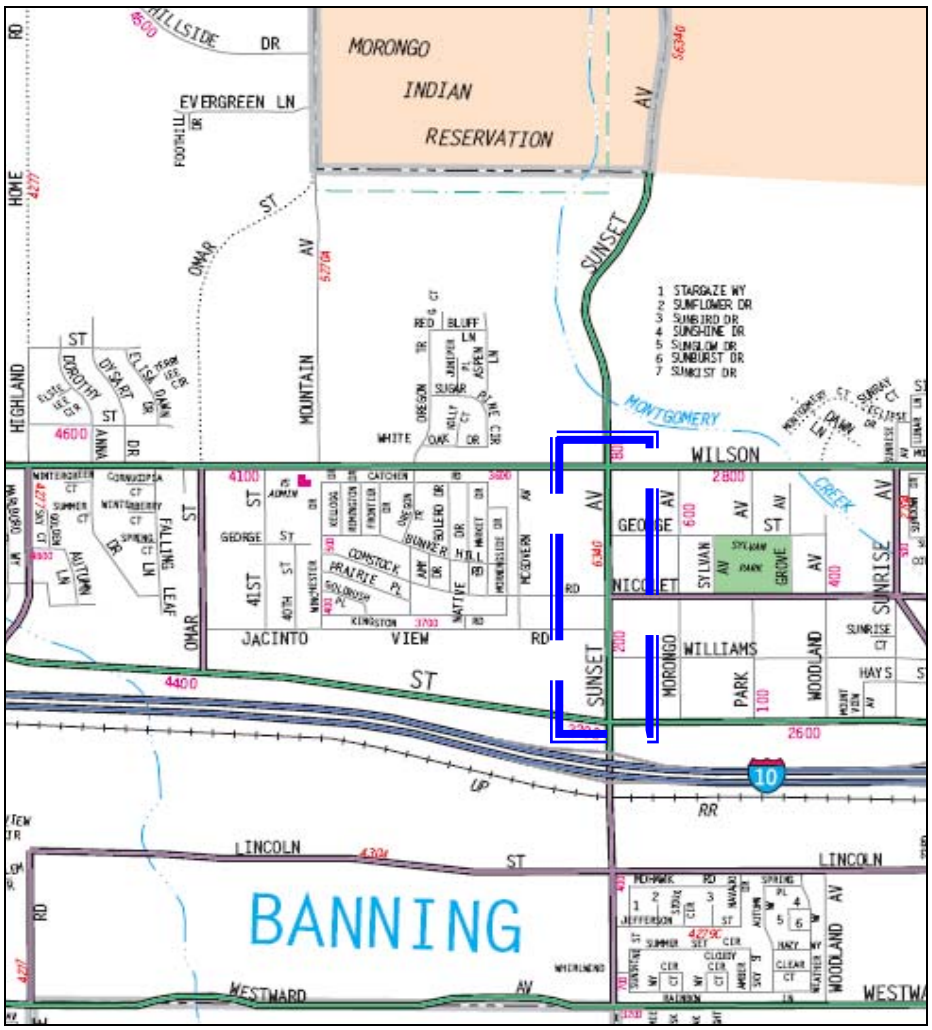
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "14"

Radar Enforceable Speed Zone
Zone 14
Sunset Ave – From Wilson St. To Ramsey St.



Zone 14

SPEED ZONE SURVEY SHEET

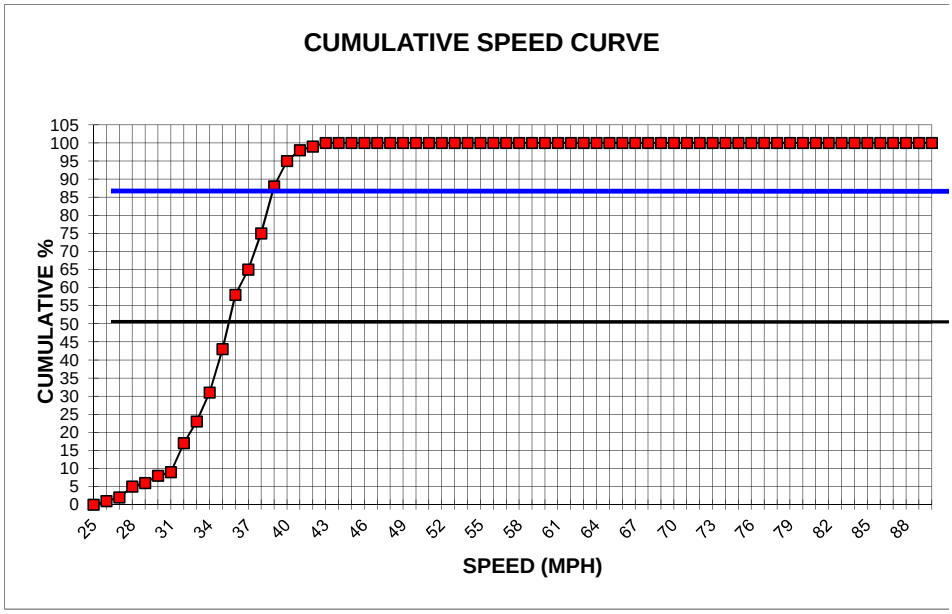
City of Banning
Public Works Department
Kahono Oei, City Engineer

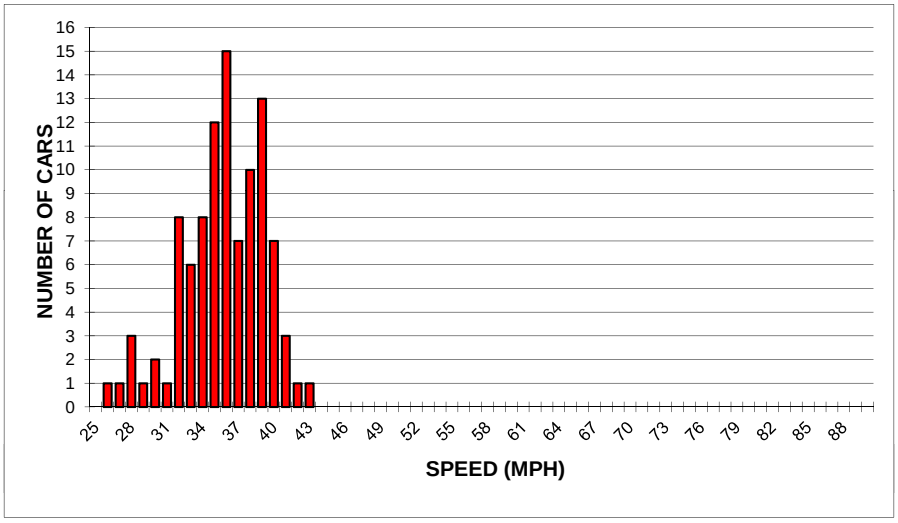
Street **Sunset Avenue**
Segment: **From Ramsey Street to Wilson Street**
DIRECTION: **NB** DATE: 7/27/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:30
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			39.0
Number of Vehicles Observed			100
Average Speed			36
Range of Speeds	26	to	43

10 MPH Pace Speed	32	to	41
Percent in Pace Speed			89
Percent over Pace Speed			2
Percent under Pace Speed			9

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	2
28	3	3	5
29	1	1	6
30	2	2	8
31	1	1	9
32	8	8	17
33	6	6	23
34	8	8	31
35	12	12	43
36	15	15	58
37	7	7	65
38	10	10	75
39	13	13	88
40	7	7	95
41	3	3	98
42	1	1	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 14 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Sunset Avenue**
Segment: **From Ramsey Street to Wilson Street**
DIRECTION: **SB** DATE: 7/27/11
POSTED SPEED LIMITS: **35 MPH** TIME: 15:00 - 16:30
WEATHER: Clear

50th Percentile Speed			35.0
85th Percentile Speed			38.0
Number of Vehicles Observed			100
Average Speed			35
Range of Speeds	26	to	43

10 MPH Pace Speed	31	to	40
Percent in Pace Speed			82
Percent over Pace Speed			3
Percent under Pace Speed			15

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	3	3	4
28	5	5	9
29	3	3	12
30	3	3	15
31	5	5	20
32	6	6	26
33	6	6	32
34	12	12	44
35	13	13	57
36	12	12	69
37	8	8	77
38	8	8	85
39	8	8	93
40	4	4	97
41	1	1	98
42	1	1	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
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56	0	0	100
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65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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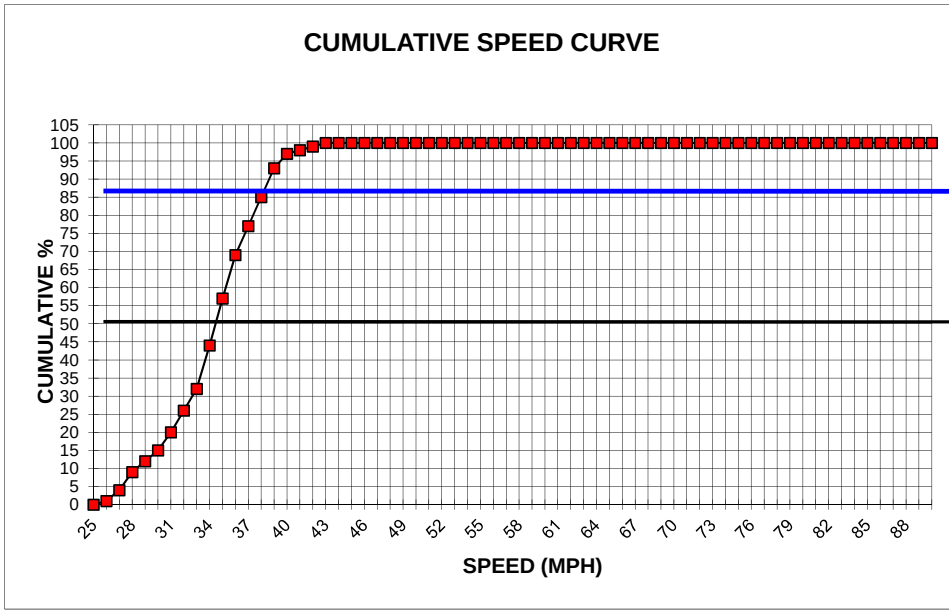
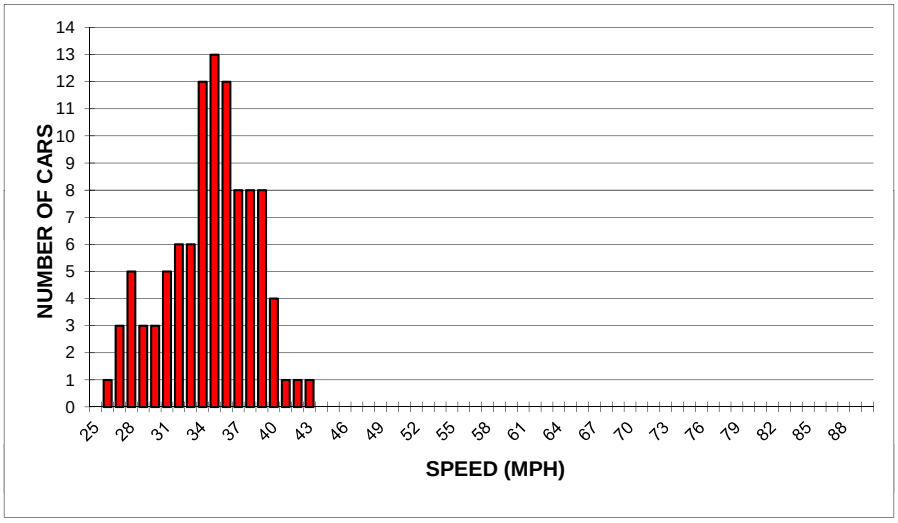
79	0	0	100
80	0	0	100





Loc 14 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Sunset Avenue**
Segment: **From Ramsey Street to Wilson Street**
DIRECTION: **Both Directions** DATE: 7/27/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 16:30
WEATHER: Clear

50th Percentile Speed			35.0
85th Percentile Speed			39.0
Number of Vehicles Observed			199
Average Speed			35
Range of Speeds	26	to	43

10 MPH Pace Speed	31	to	40
Percent in Pace Speed			84
Percent over Pace Speed			4
Percent under Pace Speed			12

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	2	1	1
27	4	2	3
28	8	4	7
29	4	2	9
30	5	3	12
31	6	3	15
32	14	7	22
33	12	6	28
34	20	10	38
35	24	12	50
36	27	14	63
37	15	8	71
38	18	9	80
39	21	11	90
40	11	6	96
41	4	2	98
42	2	1	99
43	2	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
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61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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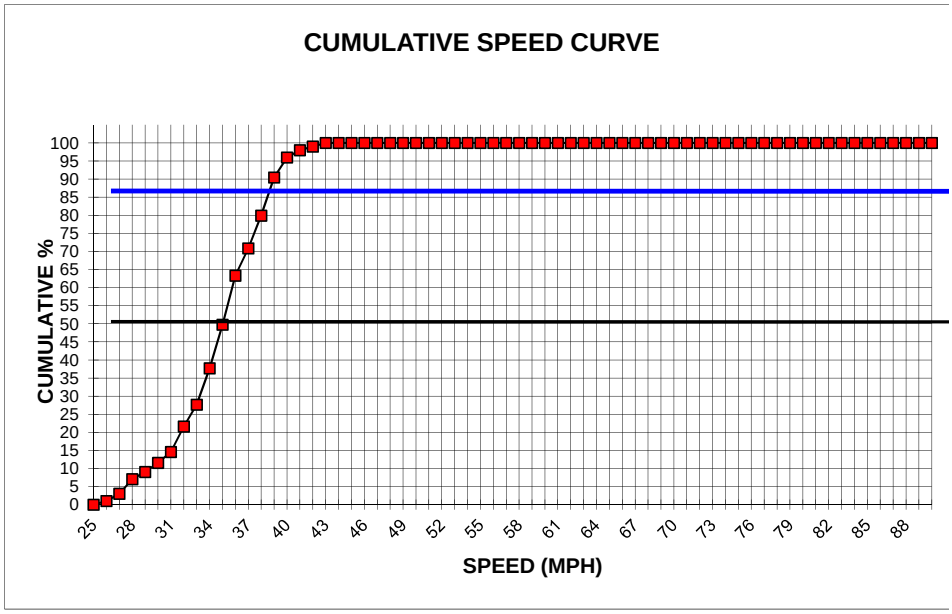
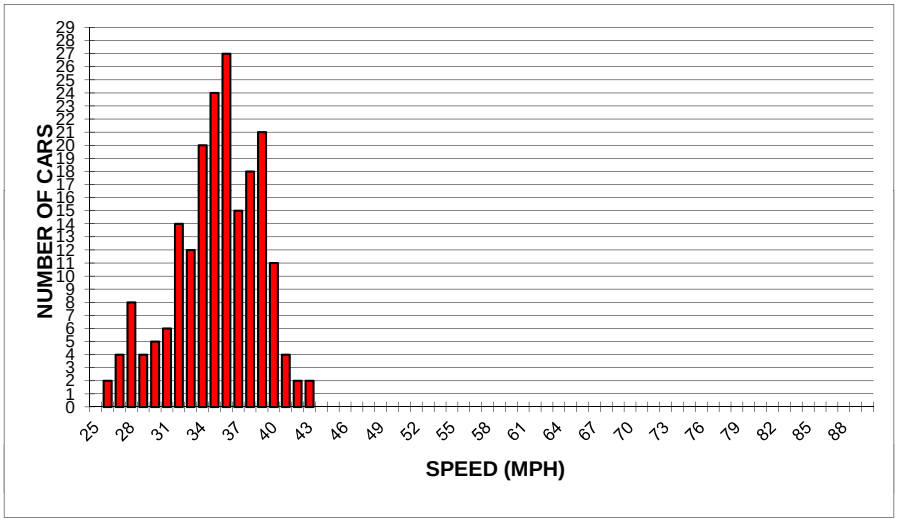
79	0	0	100
80	0	0	100





Loc 14 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "15"
Sunset Avenue - From Ramsey St to Westward Ave

Location: Sunset Avenue - From Ramsey St to Westward Ave	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/28/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 35 mph	Average Speed: 34 mph
10 mph Pace Speed: 29 - 38 mph	Percent in Pace Speed: 81%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 16	At Intersections: 16	Mid-block: 0
Collision Rate: 8.35 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 64-ft wide, straight roadway
Traffic:	10,500 ADT
Roadside:	Rural Commercial, open/agriculture
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "15"

Radar Enforceable Speed Zone
Zone 15
Sunset Ave – From Westward Ave. To Ramsey St.

Zone 15

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Sunset Avenue**
Segment: **From Westward Avenue to Ramsey Street**
DIRECTION: **NB** DATE: 7/28/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:30
WEATHER: Clear

50th Percentile Speed			33.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	24	to	43

10 MPH Pace Speed	29	to	38
Percent in Pace Speed			81
Percent over Pace Speed			15
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	0	0	1
26	1	1	3
27	0	0	3
28	1	1	4
29	5	7	11
30	11	15	25
31	2	3	28
32	9	12	40
33	7	9	49
34	7	9	59
35	5	7	65
36	4	5	71
37	3	4	75
38	8	11	85
39	2	3	88
40	6	8	96
41	1	1	97
42	1	1	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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72	0	0	100
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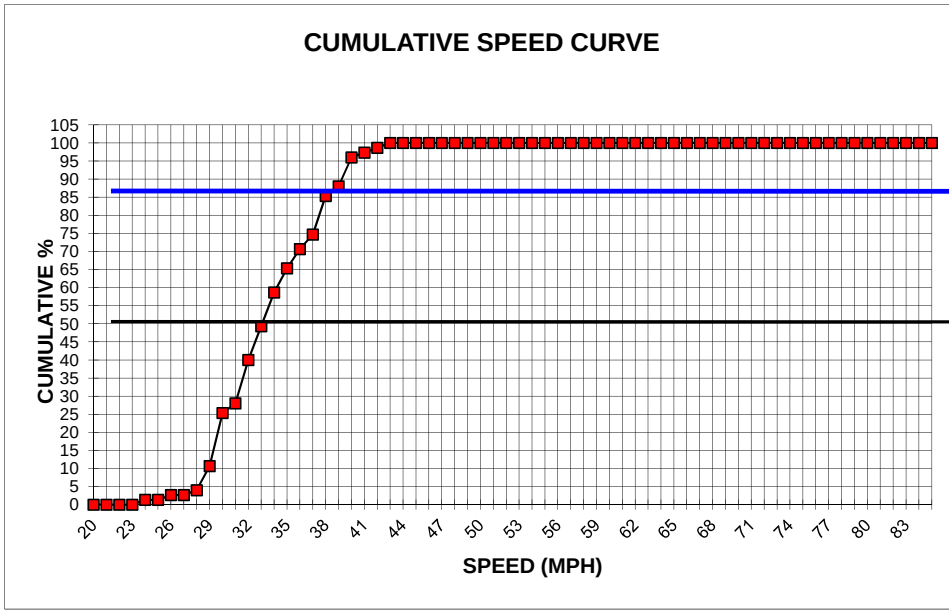
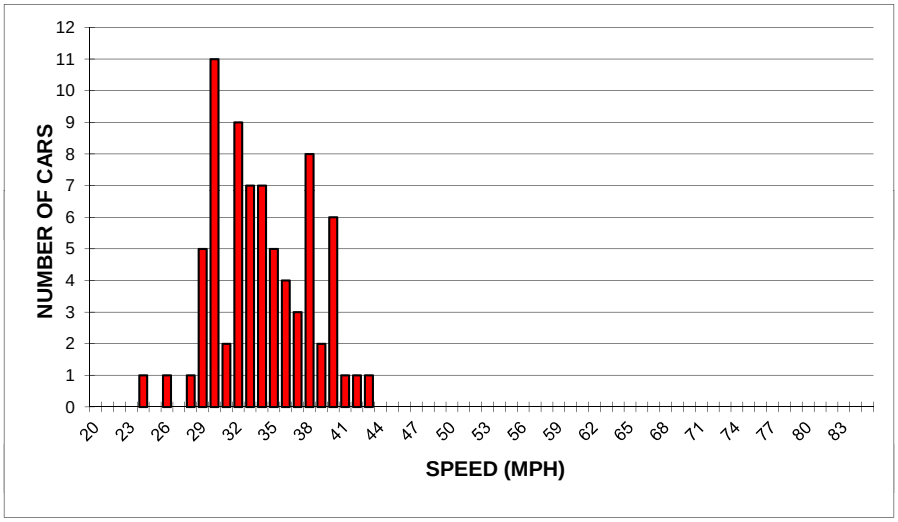
74	0	0	100
75	0	0	100





Loc 15 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Sunset Avenue**
Segment: **From Westward Avenue to Ramsey Street**
DIRECTION: **SB** DATE: 7/28/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:00 - 11:30
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			35
Range of Speeds	27	to	42

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			87
Percent over Pace Speed			9
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	1	1	1
28	0	0	1
29	2	3	4
30	4	5	9
31	5	7	16
32	8	11	27
33	8	11	37
34	9	12	49
35	6	8	57
36	8	11	68
37	4	5	73
38	10	13	87
39	3	4	91
40	3	4	95
41	3	4	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
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66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
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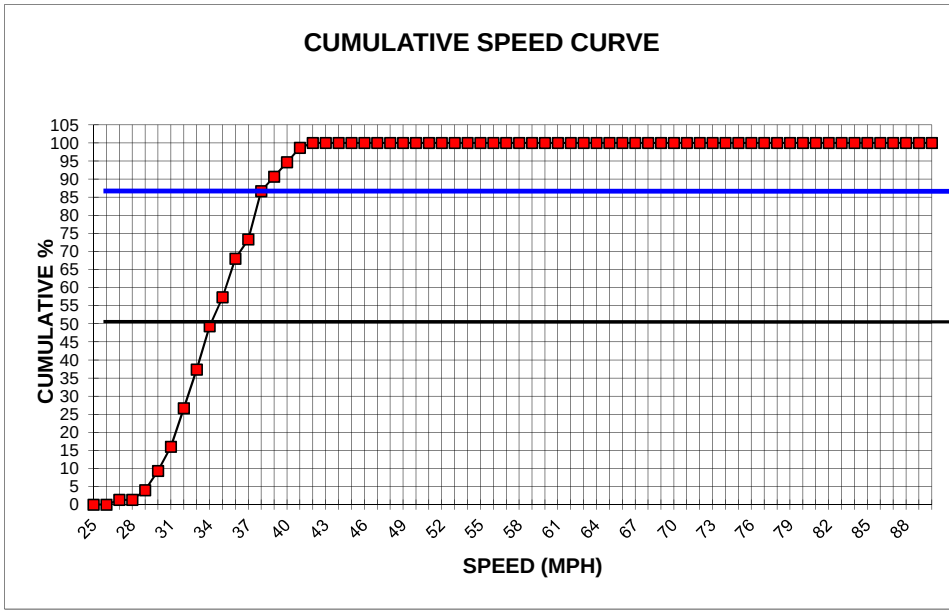

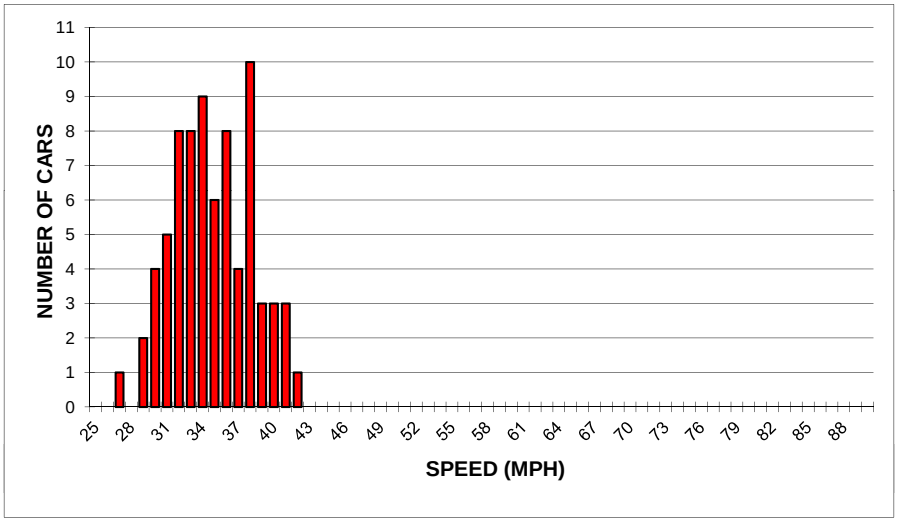

Loc 15 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Sunset Avenue**
Segment: **From Westward Avenue to Ramsey Street**
DIRECTION: **Both Directions** DATE: 7/28/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:30
WEATHER: Clear

50th Percentile Speed			33.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	24	to	43

10 MPH Pace Speed	29	to	38
Percent in Pace Speed			81
Percent over Pace Speed			15
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	0	0	1
26	1	1	3
27	0	0	3
28	1	1	4
29	5	7	11
30	11	15	25
31	2	3	28
32	9	12	40
33	7	9	49
34	7	9	59
35	5	7	65
36	4	5	71
37	3	4	75
38	8	11	85
39	2	3	88
40	6	8	96
41	1	1	97
42	1	1	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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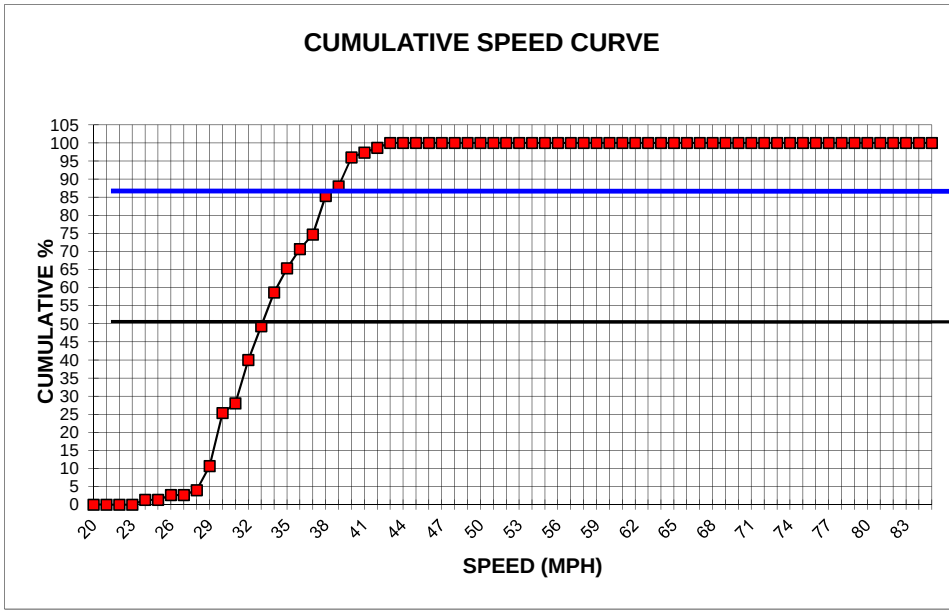
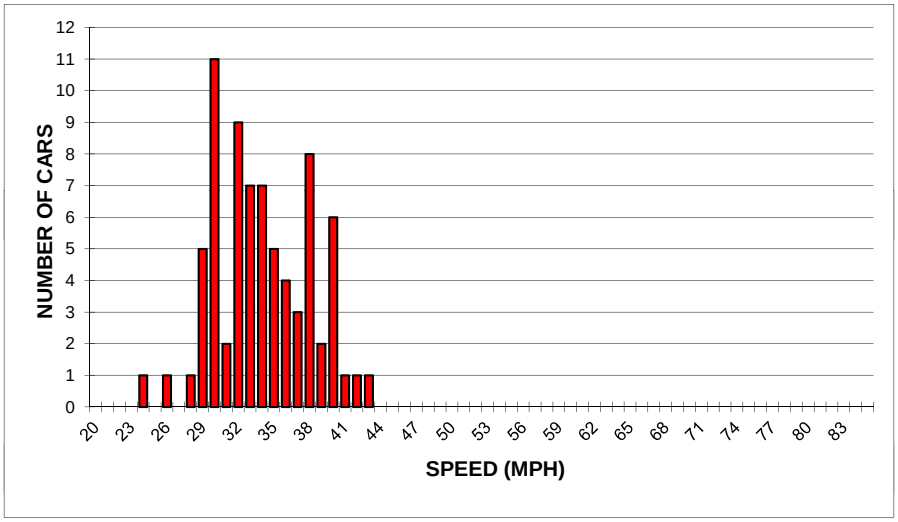
74	0	0	100
75	0	0	100





Loc 15 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "16"
Hargrave Street - Wilson St to Ramsey St

Location: Hargrave Street - Wilson St to Ramsey St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/29/2011	85th %tile Speed: 34 mph
Posted Speed Limit: 30 mph	Average Speed: 31 mph
10 mph Pace Speed: 26 - 35 mph	Percent in Pace Speed: 85%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 4	At Intersections: 3	Mid-block: 1
Collision Rate: 7.19 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.25 mile long, 44-ft wide, straight roadway
Traffic:	6,100 ADT
Roadside:	Urban residential
Not Readily Apparent to Driver:	Unimproved roadway conditions

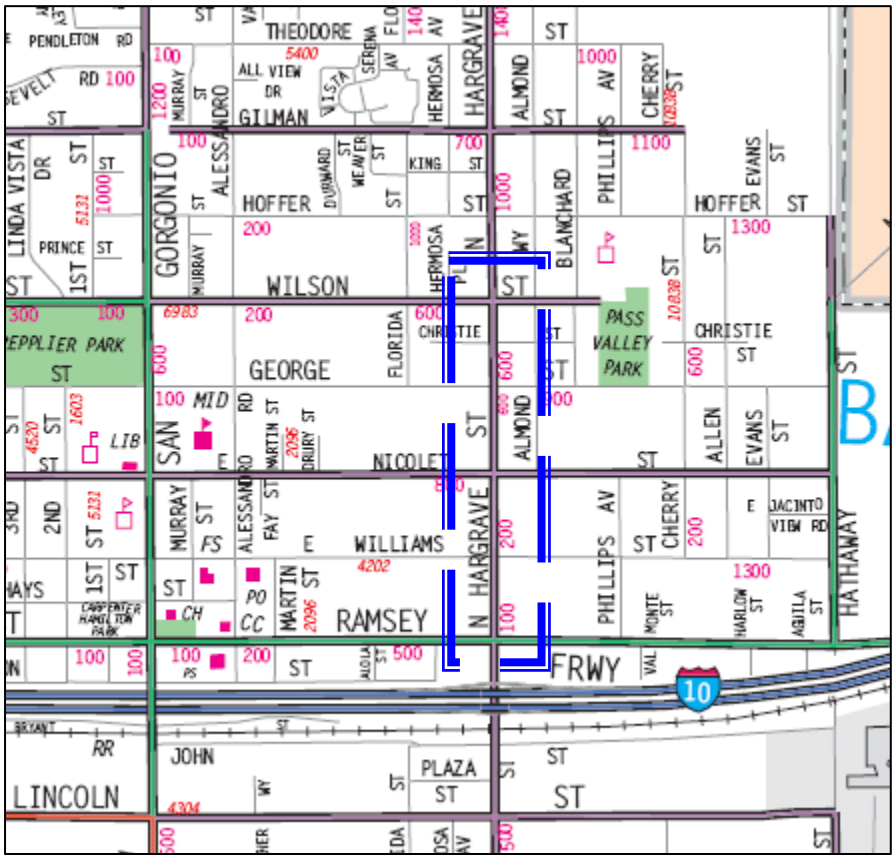
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**30 mph**

(*) - No recent collision records available

ZONE "16"

Radar Enforceable Speed Zone
Zone 16
Hargrave Street – From Wilson St. to Ramsey St.



Zone 16

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Hargrave Street**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **NB** DATE: 7/29/11
POSTED SPEED LIMITS: **30 MPH** TIME: 10:00 - 11:30
WEATHER: Clear

50th Percentile Speed	31.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	34.0	Percent in Pace Speed	87
Number of Vehicles Observed	100	Percent over Pace Speed	9
Average Speed	31	Percent under Pace Speed	4
Range of Speeds	23 to 40		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	2	2	2
24	0	0	2
25	2	2	4
26	5	5	9
27	3	3	12
28	8	8	20
29	11	11	31
30	17	17	48
31	7	7	55
32	17	17	72
33	5	5	77
34	8	8	85
35	6	6	91
36	2	2	93
37	2	2	95
38	3	3	98
39	1	1	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
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65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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71	0	0	100
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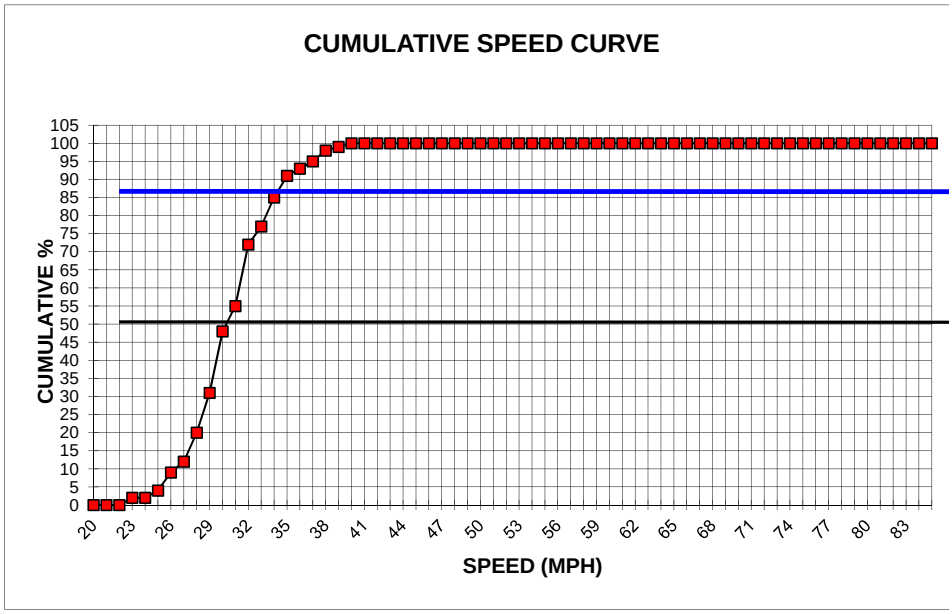
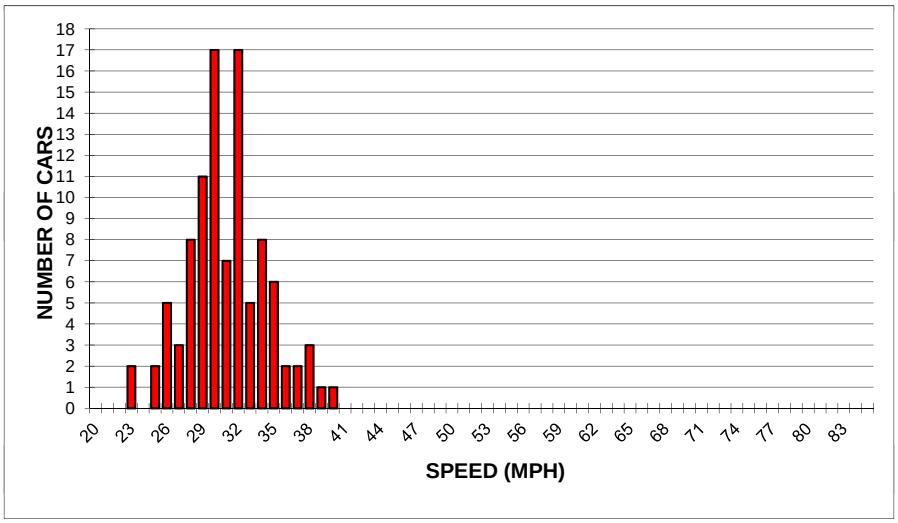
73	0	0	100
74	0	0	100
75	0	0	100





Loc 16 NB

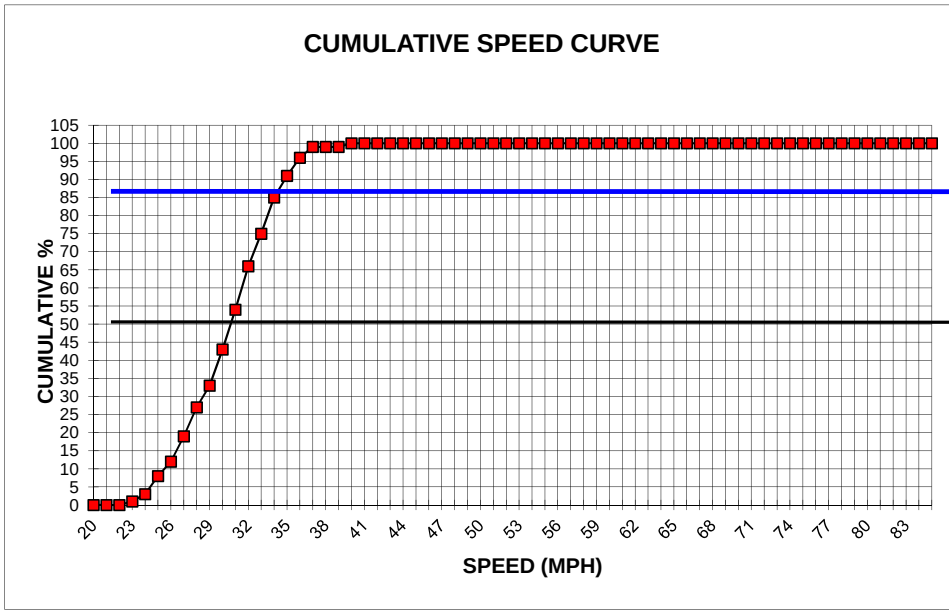
SPEED ZONE SURVEY SHEET

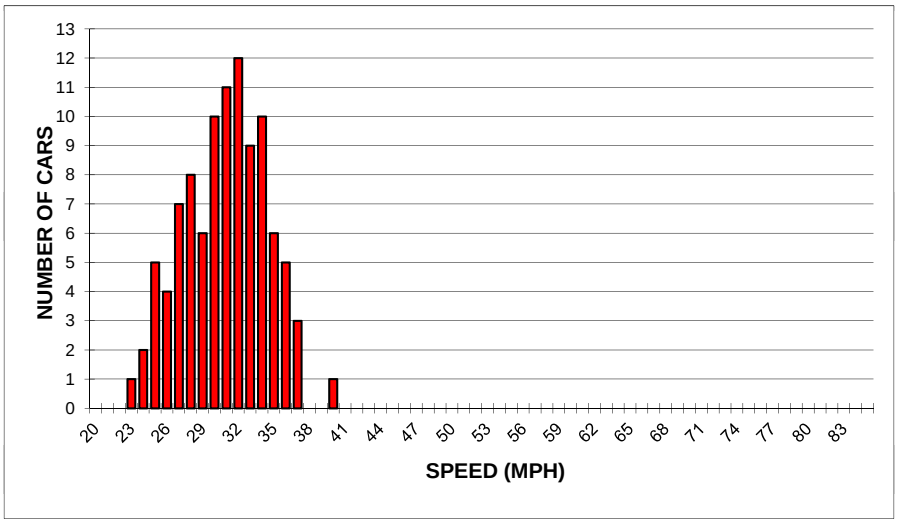
City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Hargrave Street**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **SB** DATE: 7/29/11
POSTED SPEED LIMITS: **30 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	31.0	10 MPH Pace Speed	27 to 36
85th Percentile Speed	34.0	Percent in Pace Speed	84
Number of Vehicles Observed	100	Percent over Pace Speed	4
Average Speed	31	Percent under Pace Speed	12
Range of Speeds	23 to 40		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	1	1	1
24	2	2	3
25	5	5	8
26	4	4	12
27	7	7	19
28	8	8	27
29	6	6	33
30	10	10	43
31	11	11	54
32	12	12	66
33	9	9	75
34	10	10	85
35	6	6	91
36	5	5	96
37	3	3	99
38	0	0	99
39	0	0	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 16 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Hargrave Street**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **Both Directions** DATE: 7/29/11
POSTED SPEED LIMITS: **30 MPH** TIME: 10:00 - 11:30
WEATHER: Clear

50th Percentile Speed	31.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	34.0	Percent in Pace Speed	85
Number of Vehicles Observed	200	Percent over Pace Speed	9
Average Speed	31	Percent under Pace Speed	6
Range of Speeds	23 to 40		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	3	2	2
24	2	1	3
25	7	4	6
26	9	5	11
27	10	5	16
28	16	8	24
29	17	9	32
30	27	14	46
31	18	9	55
32	29	15	69
33	14	7	76
34	18	9	85
35	12	6	91
36	7	4	95
37	5	3	97
38	3	2	99
39	1	1	99
40	2	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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74	0	0	100
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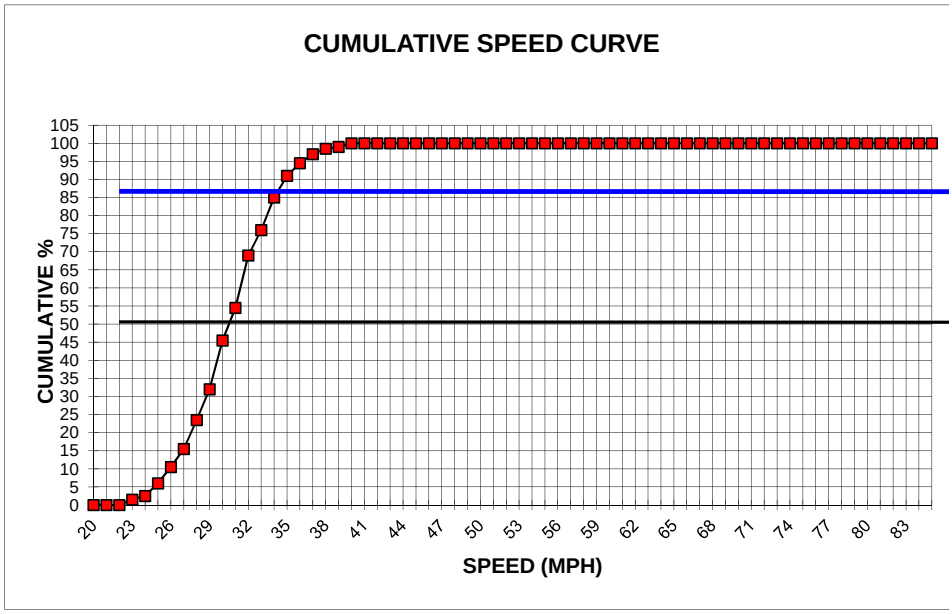
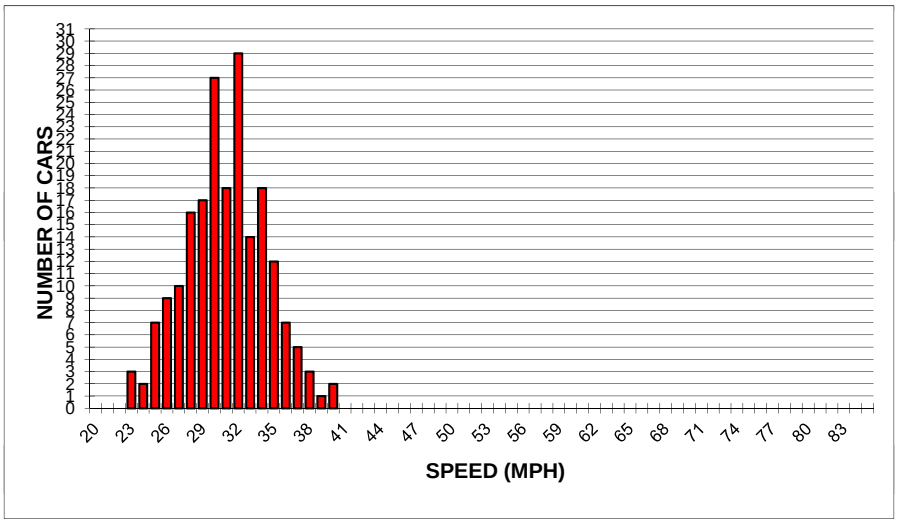




Loc 16 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "17"
Hargrave Street - Ramsey St to Wesley St

Location: Hargrave Street - Ramsey St to Wesley St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 7/29/2011	85th %tile Speed: 34 mph
Posted Speed Limit: 35 mph	Average Speed: 30 mph
10 mph Pace Speed: 26- 35 mph	Percent in Pace Speed: 81%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: N/A		
Total Collisions:	At Intersections:	Mid-block:
Collision Rate: (MVM)	State Avg. Rate:	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.9 mile long, 40-ft wide, straight roadway
Traffic:	N/A ADT
Roadside:	Open/Mixed Use
Not Readily Apparent to Driver:	

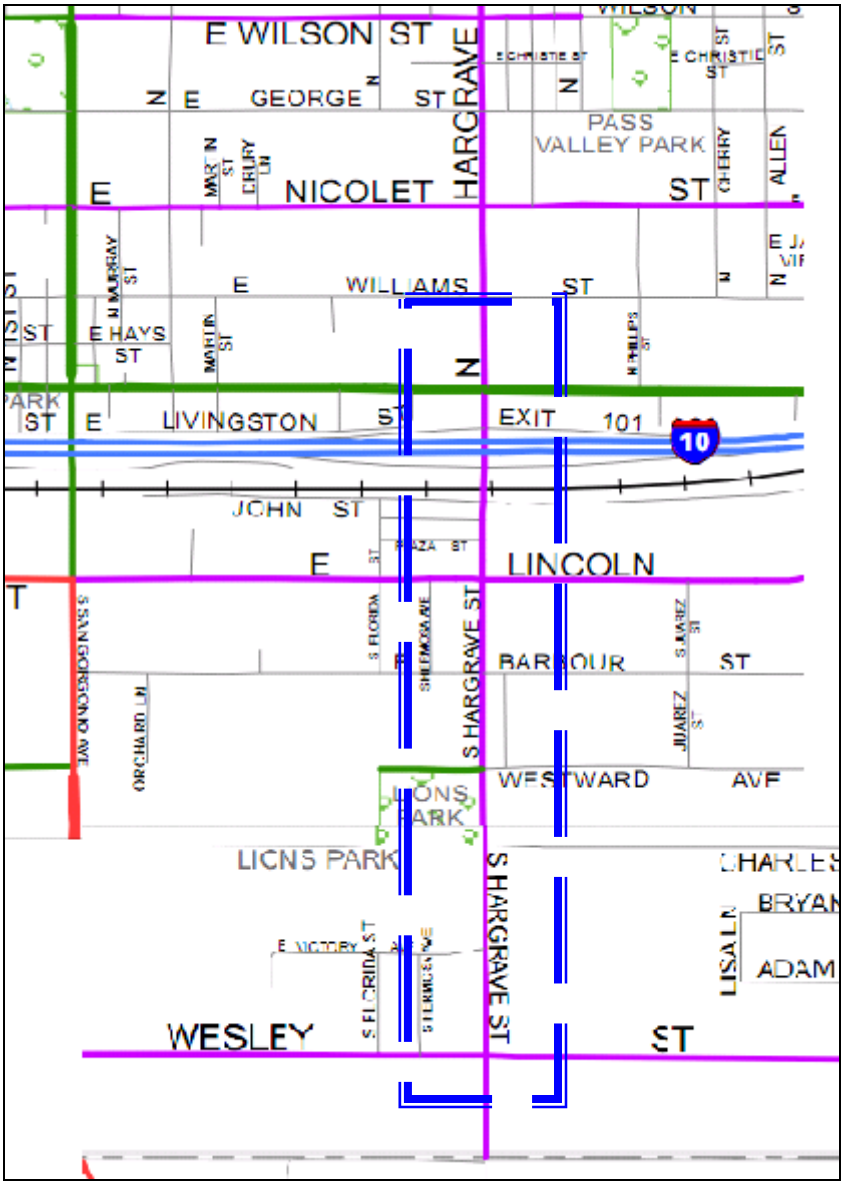
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "17"

Radar Enforceable Speed Zone
Zone 17
Hargrave Street – From Ramsey St to Wesley St



Zone 17

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Hargrave Street**
Segment: **From Ramsey Street to Wesley Street**
DIRECTION: **NB** DATE: 9/13/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	30.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	34.0	Percent in Pace Speed	81
Number of Vehicles Observed	100	Percent over Pace Speed	9
Average Speed	30	Percent under Pace Speed	10
Range of Speeds	22 to 40		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	1	1	1
23	2	2	3
24	4	4	7
25	3	3	10
26	5	5	15
27	6	6	21
28	8	8	29
29	11	11	40
30	17	17	57
31	7	7	64
32	12	12	76
33	5	5	81
34	6	6	87
35	4	4	91
36	2	2	93
37	2	2	95
38	3	3	98
39	1	1	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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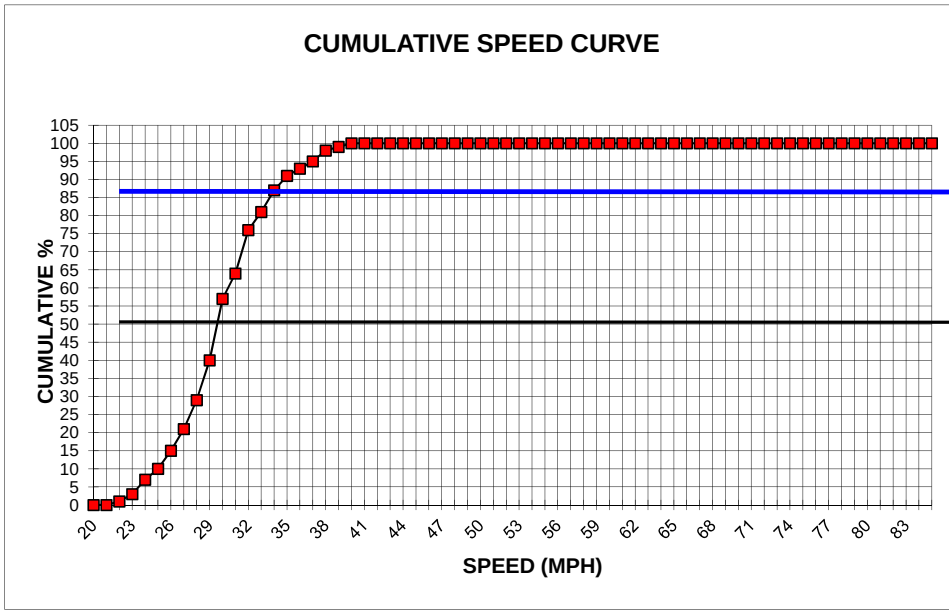
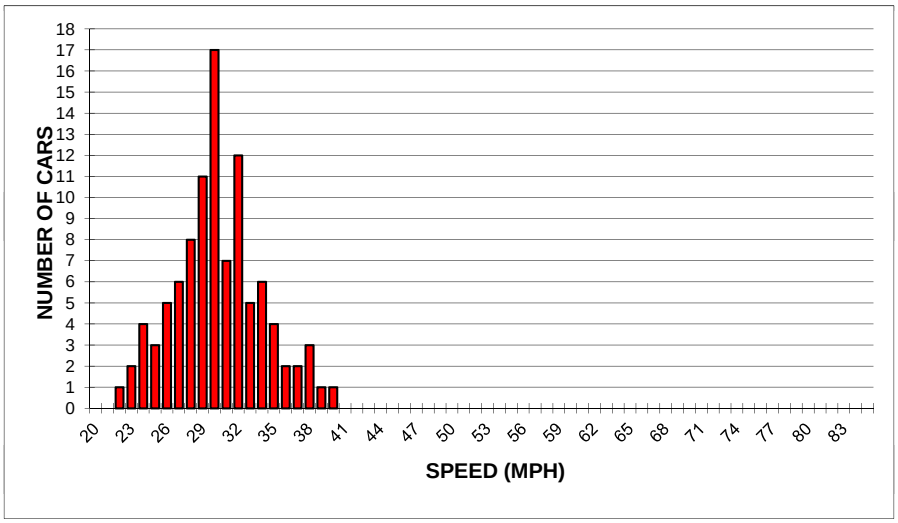
74	0	0	100
75	0	0	100





Loc 17 NB

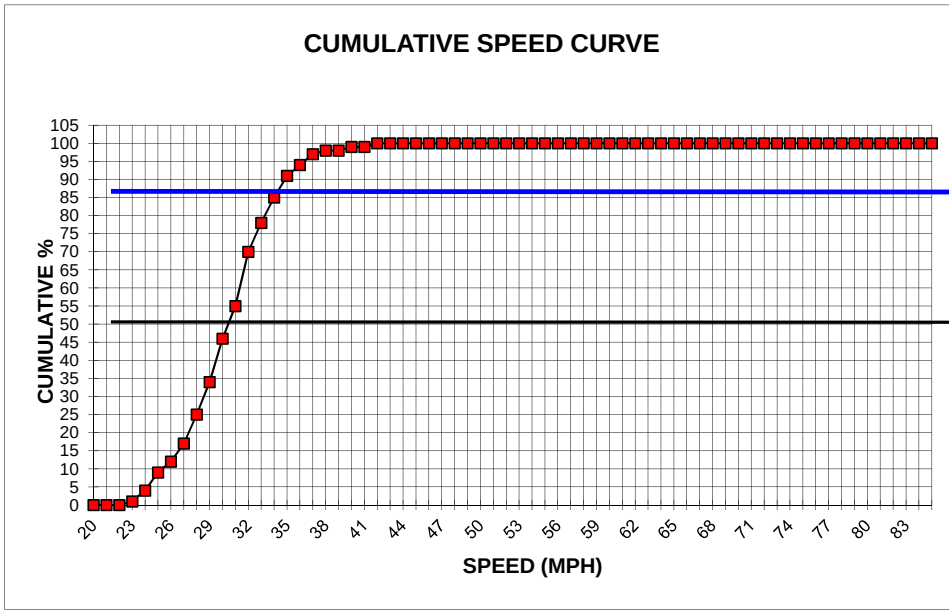
SPEED ZONE SURVEY SHEET

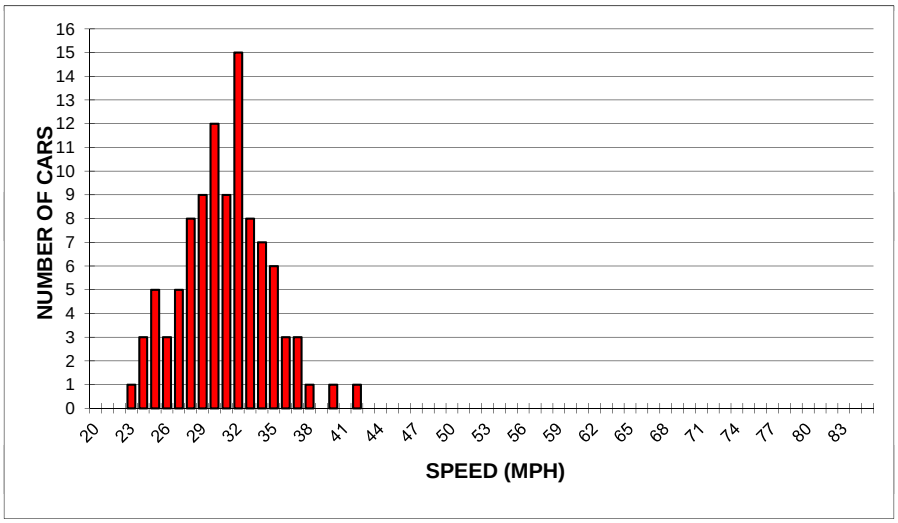
City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Hargrave Street**
Segment: **From Ramsey Street to Wesley Street**
DIRECTION: **SB** DATE: 9/13/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:30 - 11:45
WEATHER: Clear

50th Percentile Speed	31.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	34.0	Percent in Pace Speed	82
Number of Vehicles Observed	100	Percent over Pace Speed	9
Average Speed	31	Percent under Pace Speed	9
Range of Speeds	23 to 42		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	1	1	1
24	3	3	4
25	5	5	9
26	3	3	12
27	5	5	17
28	8	8	25
29	9	9	34
30	12	12	46
31	9	9	55
32	15	15	70
33	8	8	78
34	7	7	85
35	6	6	91
36	3	3	94
37	3	3	97
38	1	1	98
39	0	0	98
40	1	1	99
41	0	0	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 17 SB

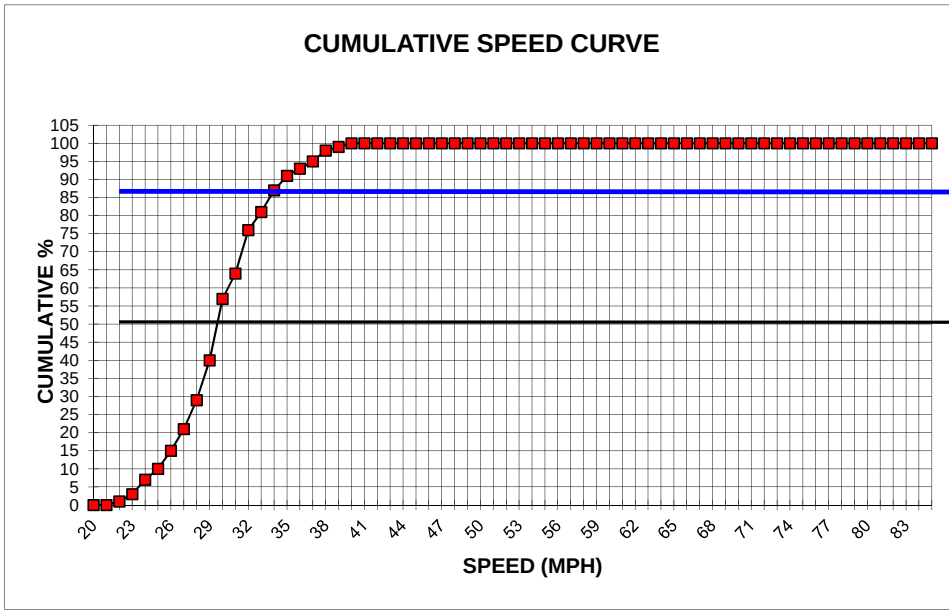
SPEED ZONE SURVEY SHEET

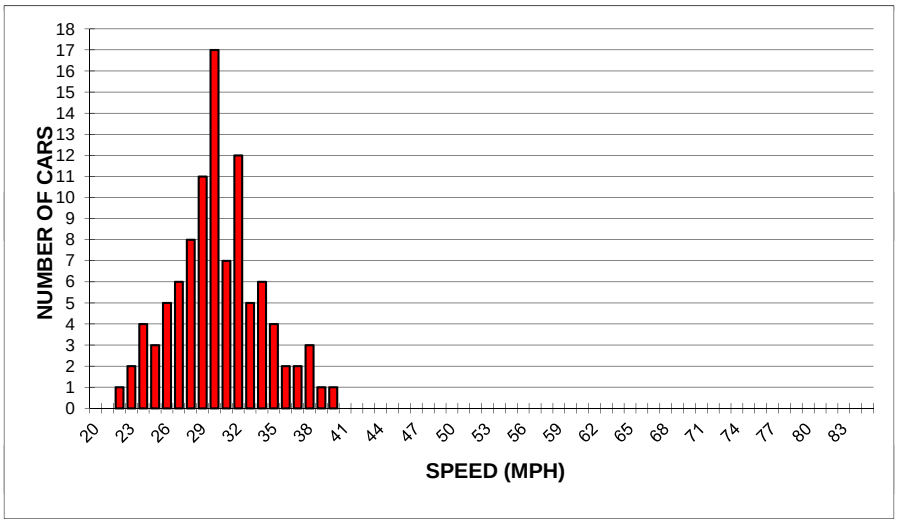
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Hargrave Street**
Segment: **From Ramsey Street to Wesley Street**
DIRECTION: **Both Directions** DATE: 9/13/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 11:45
WEATHER: Clear

50th Percentile Speed	30.0	10 MPH Pace Speed	26 to 35
85th Percentile Speed	34.0	Percent in Pace Speed	81
Number of Vehicles Observed	100	Percent over Pace Speed	9
Average Speed	30	Percent under Pace Speed	10
Range of Speeds	22 to 40		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	1	1	1
23	2	2	3
24	4	4	7
25	3	3	10
26	5	5	15
27	6	6	21
28	8	8	29
29	11	11	40
30	17	17	57
31	7	7	64
32	12	12	76
33	5	5	81
34	6	6	87
35	4	4	91
36	2	2	93
37	2	2	95
38	3	3	98
39	1	1	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 17 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "18"
Omar Street - From Ramsey St to Wilson St

Location: Omar Street - From Ramsey St to Wilson St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/11/2011	85th %tile Speed: 30 mph
Posted Speed Limit: 25 mph	Average Speed: 27 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 89%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 0	At Intersections: 0	Mid-block: 0
Collision Rate: 0.00 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 40-ft wide, straight roadway
Traffic:	1,600 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	Narrow, unimproved roadway

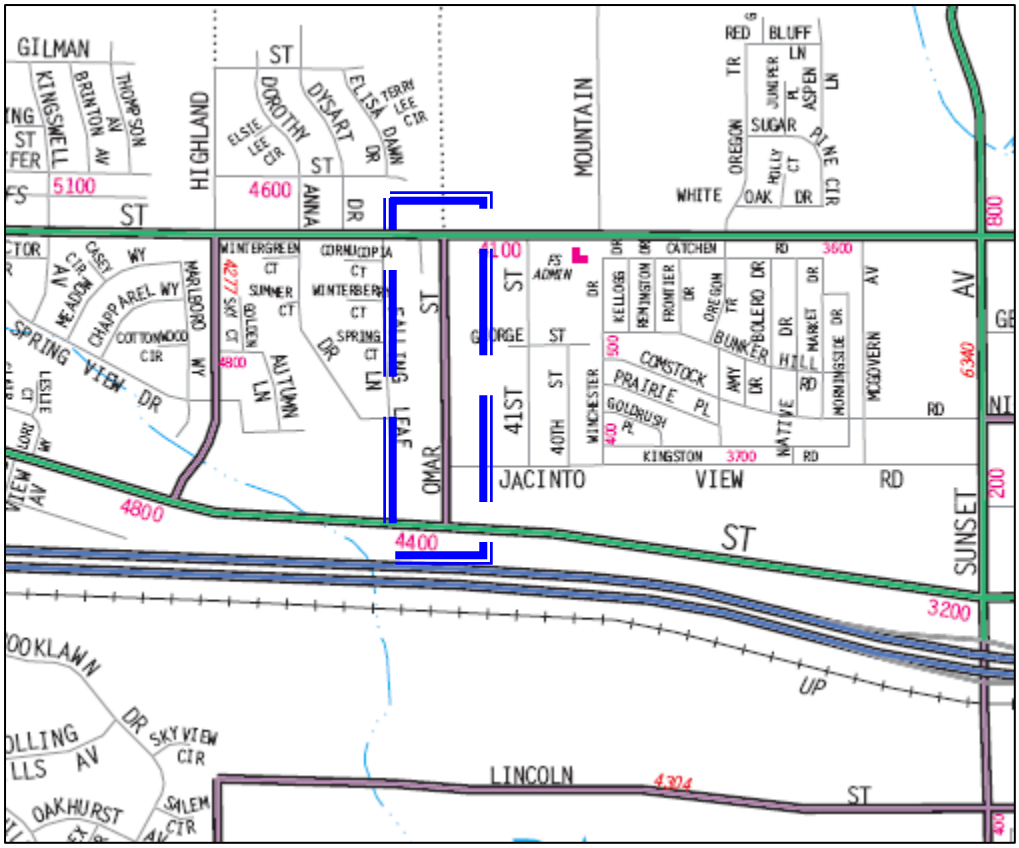
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph**

(*) - No recent collision records available

ZONE "18"

Radar Enforceable Speed Zone
Zone 18
Omar Street – From Ramsey St. to Wilson St.



Zone 18

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Omar Street**
Segment: **From Ramsey St to Wilson St**
DIRECTION: **Northbound** DATE: 8/11/11
POSTED SPEED LIMITS: **25MPH** TIME: 13:00 - 14:15
WEATHER: Clear

50th Percentile Speed	26.0	10 MPH Pace Speed	22 to 31
85th Percentile Speed	29.0	Percent in Pace Speed	91
Number of Vehicles Observed	75	Percent over Pace Speed	8
Average Speed	26	Percent under Pace Speed	1
Range of Speeds	21 to 36		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	1	1	1
22	4	5	7
23	9	12	19
24	10	13	32
25	8	11	43
26	12	16	59
27	6	8	67
28	10	13	80
29	5	7	87
30	2	3	89
31	2	3	92
32	0	0	92
33	1	1	93
34	2	3	96
35	2	3	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
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66	0	0	100
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68	0	0	100
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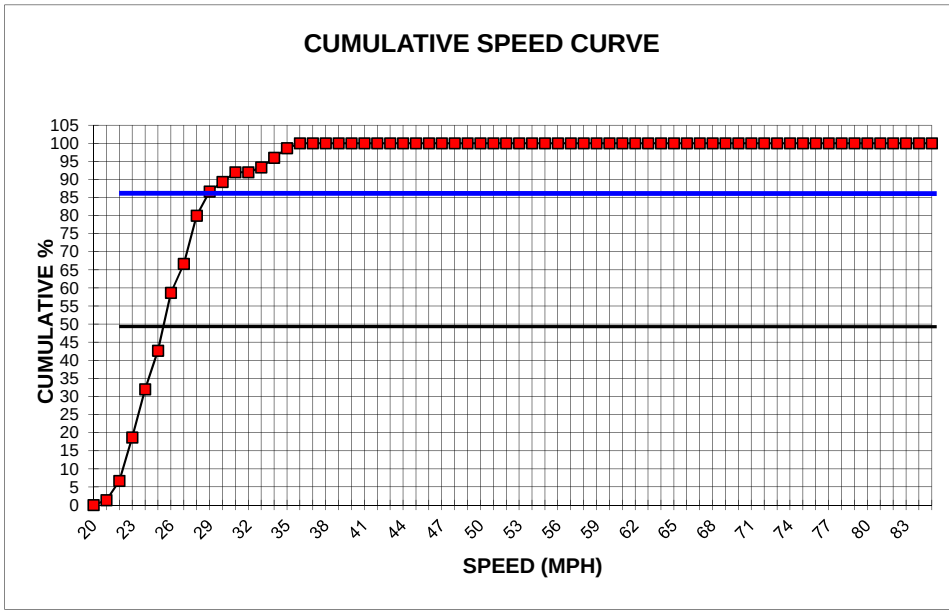
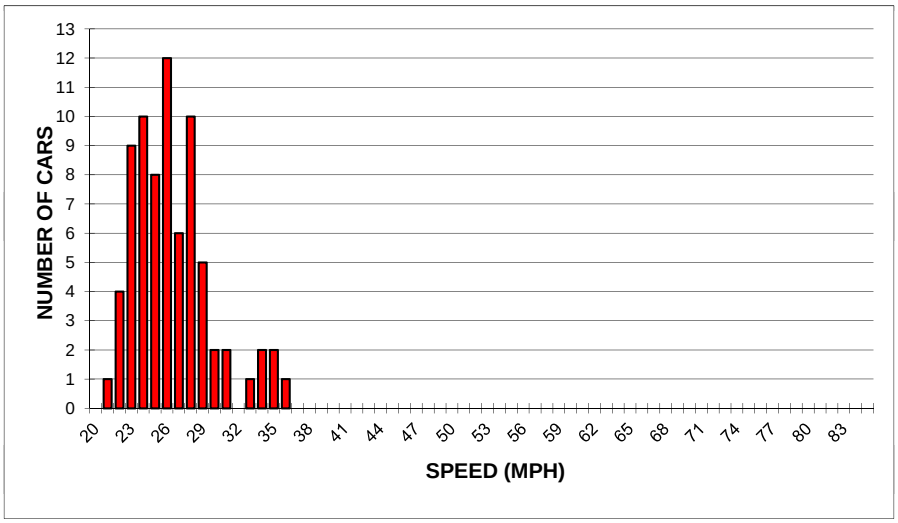
74	0	0	100
75	0	0	100





Loc 18 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Omar Street**
Segment: **From Ramsey St to Wilson St**
DIRECTION: **Southbound** DATE: 8/11/11
POSTED SPEED LIMITS: **25MPH** TIME: 14:30 - 16:00
WEATHER: Clear

50th Percentile Speed	26.0	10 MPH Pace Speed	22 to 31
85th Percentile Speed	31.0	Percent in Pace Speed	87
Number of Vehicles Observed	75	Percent over Pace Speed	12
Average Speed	27	Percent under Pace Speed	1
Range of Speeds	21 to 36		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	1	1	1
22	3	4	5
23	6	8	13
24	7	9	23
25	8	11	33
26	12	16	49
27	7	9	59
28	9	12	71
29	6	8	79
30	4	5	84
31	3	4	88
32	2	3	91
33	1	1	92
34	2	3	95
35	3	4	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
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66	0	0	100
67	0	0	100
68	0	0	100
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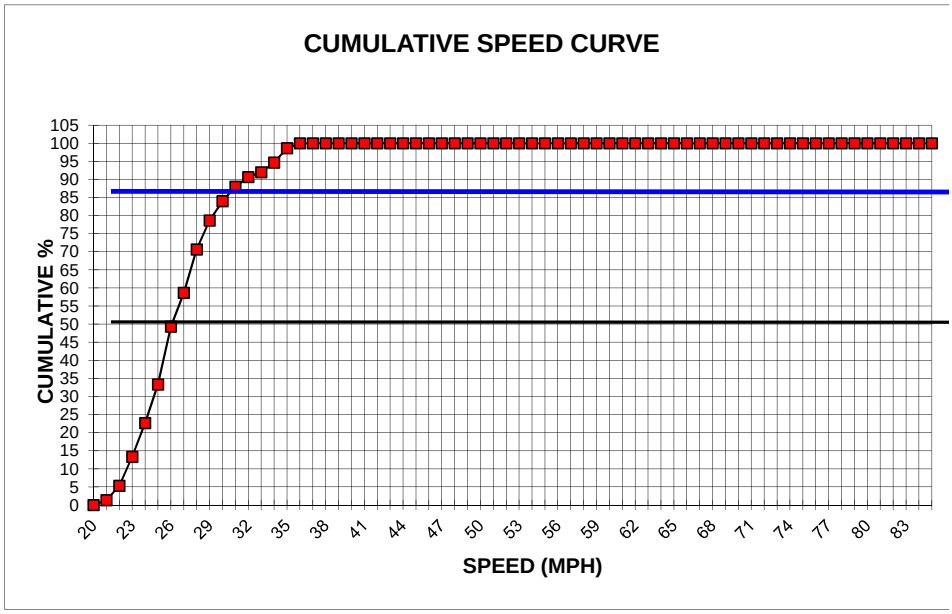
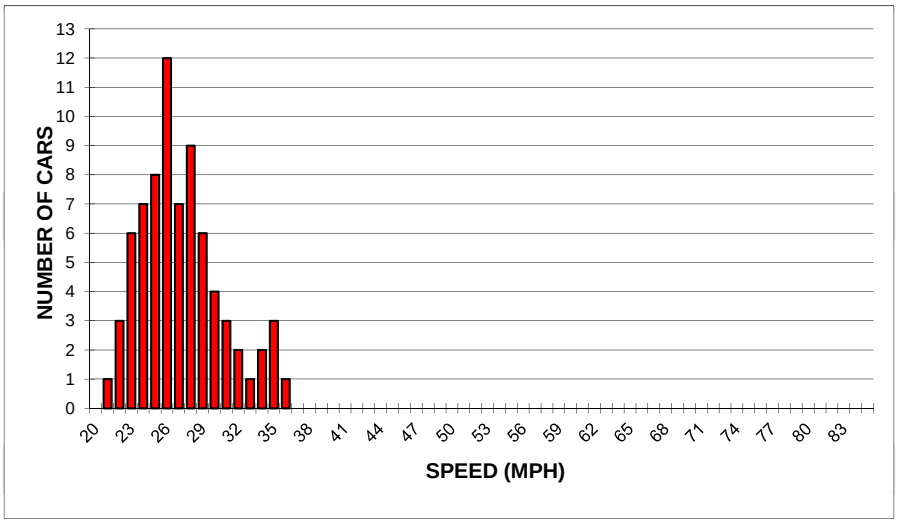
74	0	0	100
75	0	0	100





Loc 18 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Omar Street**
Segment: **From Ramsey St to Wilson St**
DIRECTION: **Both Directions** DATE: 8/11/11
POSTED SPEED LIMITS: **25MPH** TIME: 13:00 - 16:00
WEATHER: Clear

50th Percentile Speed	26.0	10 MPH Pace Speed	22 to 31
85th Percentile Speed	30.0	Percent in Pace Speed	89
Number of Vehicles Observed	150	Percent over Pace Speed	10
Average Speed	27	Percent under Pace Speed	1
Range of Speeds	21 to 36		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	2	1	1
22	7	5	6
23	15	10	16
24	17	11	27
25	16	11	38
26	24	16	54
27	13	9	63
28	19	13	75
29	11	7	83
30	6	4	87
31	5	3	90
32	2	1	91
33	2	1	93
34	4	3	95
35	5	3	99
36	2	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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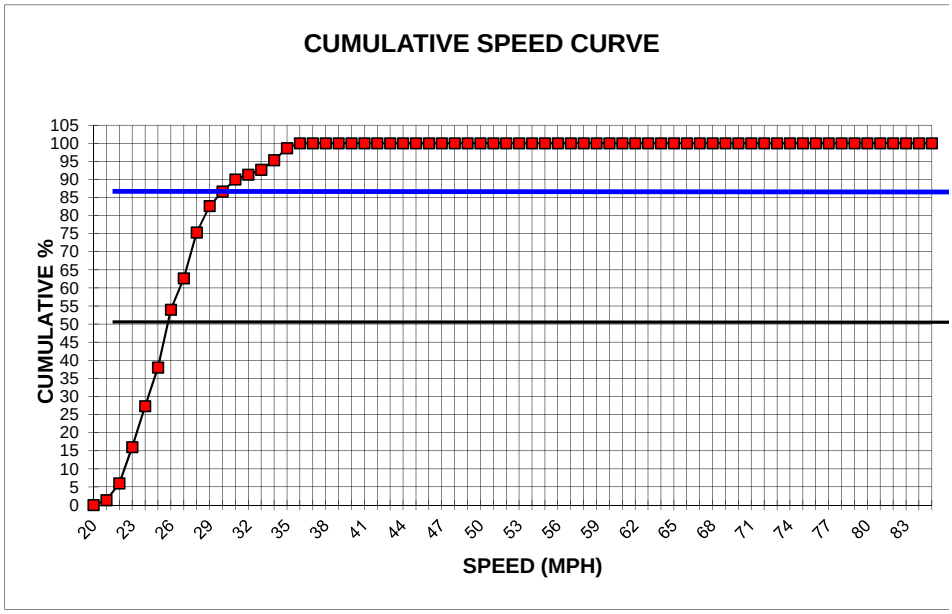
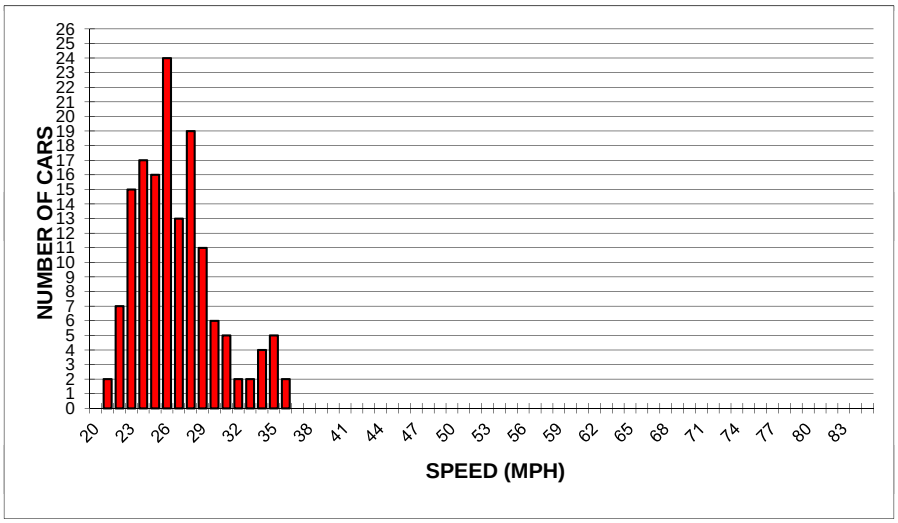
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 18 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "19"
Alessandro Rd - Repplier Rd to Wilson St

Location: Alessandro Rd - Repplier Rd to Wilson St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 10/19/2011	85th %tile Speed: 30 MPH
Posted Speed Limit: 35 MPH	Average Speed: 27 MPH
10 mph Pace Speed: 22-31 MPH	Percent in Pace Speed: 88%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: N/A		
Total Collisions:	At Intersections:	Mid-block:
Collision Rate: (MVM)	State Avg. Rate:	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 40-ft wide, straight roadway
Traffic:	N/A ADT
Roadside:	Open/Mixed Use
Not Readily Apparent to Driver:	Uniformity of speed zones

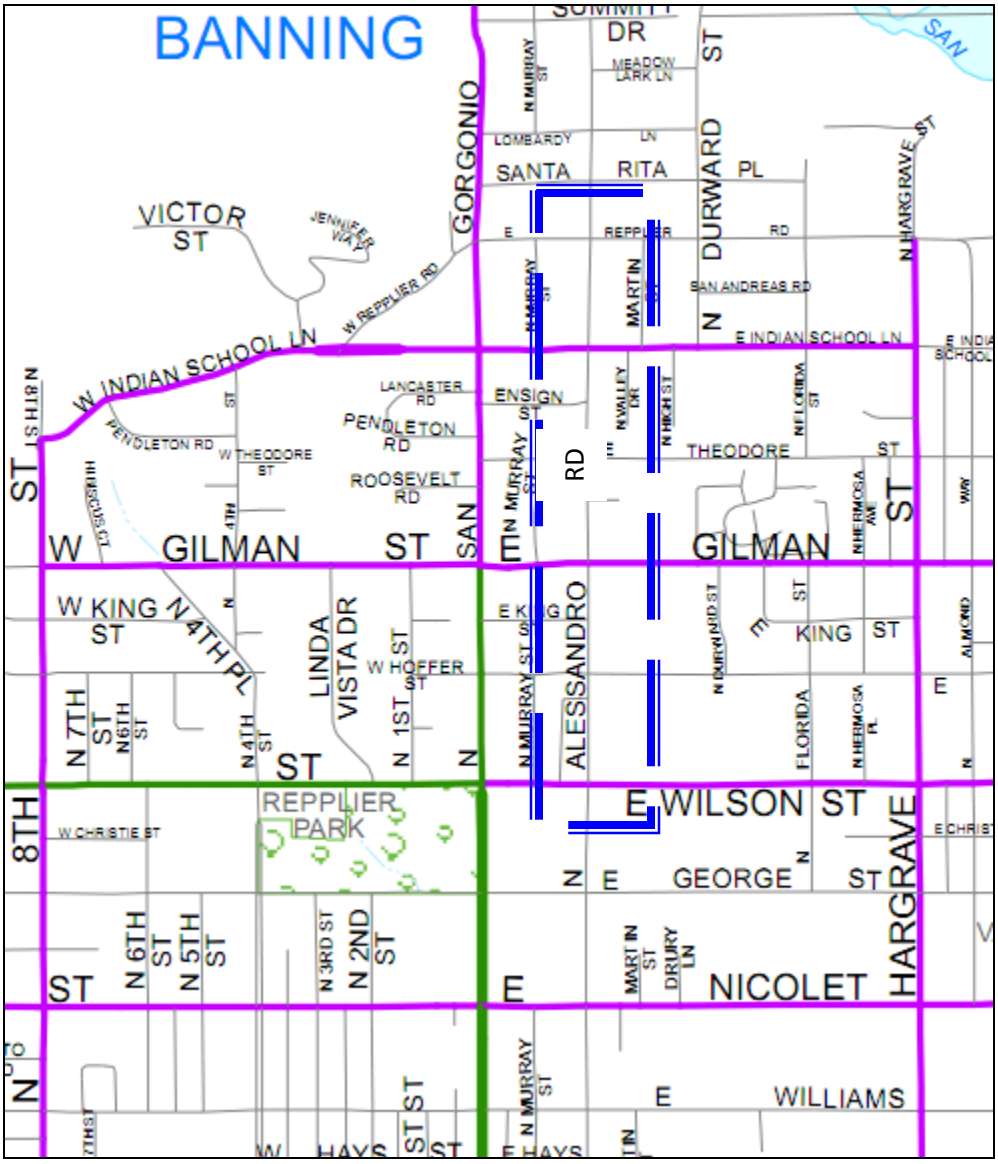
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**30 mph**

(*) - No recent collision records available

ZONE "19"

Radar Enforceable Speed Zone
Zone 19
Alessandro Rd – From Repplier Rd to Wilson St



Zone 19

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Alessandro Road**
Segment: **From Repplier Road to Wilson Street**
DIRECTION: **Northbound** DATE: 10/19/11
POSTED SPEED LIMITS: **35 MPH** TIME: 11:00 - 12:30
WEATHER: Clear

50th Percentile Speed	27.0	10 MPH Pace Speed	22 to 31
85th Percentile Speed	30.0	Percent in Pace Speed	88
Number of Vehicles Observed	100	Percent over Pace Speed	8
Average Speed	27	Percent under Pace Speed	4
Range of Speeds	20 to 36		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	3	3	4
22	4	4	8
23	10	10	18
24	9	9	27
25	13	13	40
26	8	8	48
27	10	10	58
28	10	10	68
29	11	11	79
30	9	9	88
31	4	4	92
32	3	3	95
33	1	1	96
34	2	2	98
35	1	1	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
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66	0	0	100
67	0	0	100
68	0	0	100
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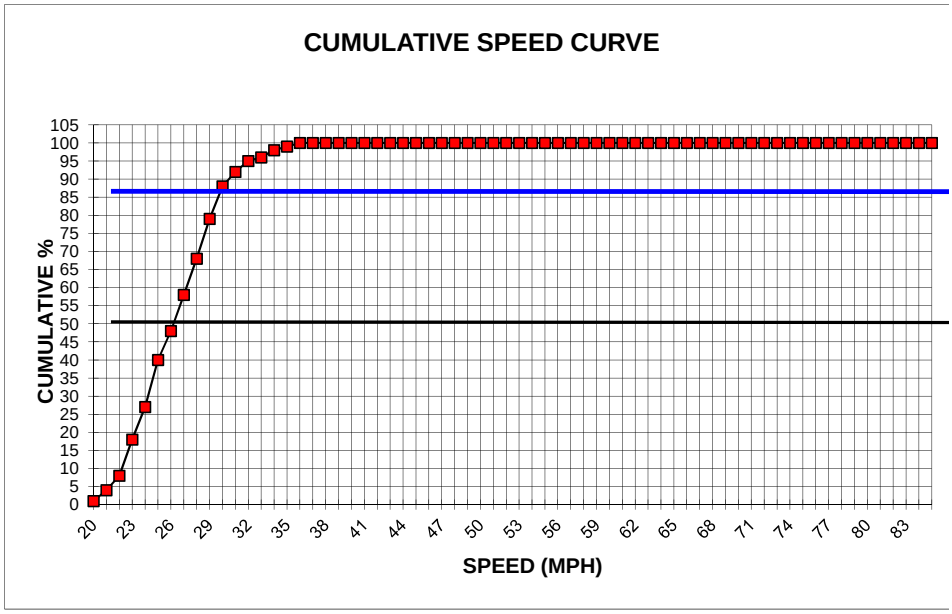

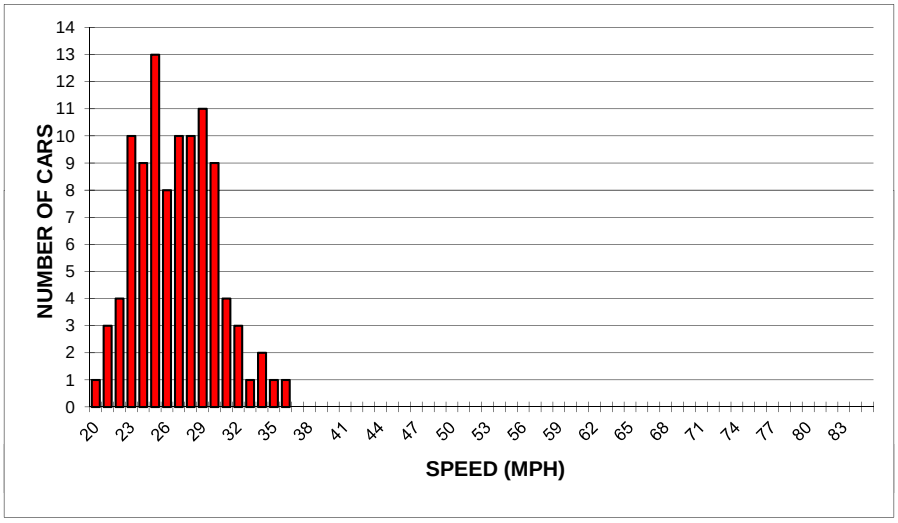

Loc 19 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Alessandro Road**
Segment: **From Repplier Road to Wilson Street**
DIRECTION: **Southbound** DATE: 10/19/11
POSTED SPEED LIMITS: **35 MPH** TIME: 11:00 - 12:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			30.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	20	to	36

10 MPH Pace Speed	23	to	32
Percent in Pace Speed			88
Percent over Pace Speed			6
Percent under Pace Speed			6

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	2	2	3
22	3	3	6
23	4	4	10
24	7	7	17
25	13	13	30
26	11	11	41
27	13	13	54
28	12	12	66
29	9	9	75
30	10	10	85
31	5	5	90
32	4	4	94
33	2	2	96
34	2	2	98
35	1	1	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
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49	0	0	100
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66	0	0	100
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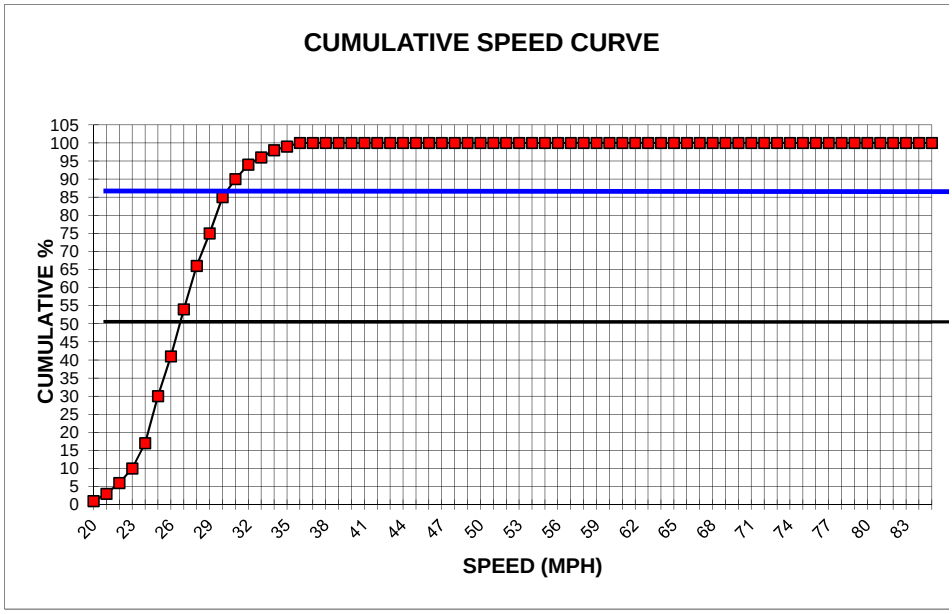
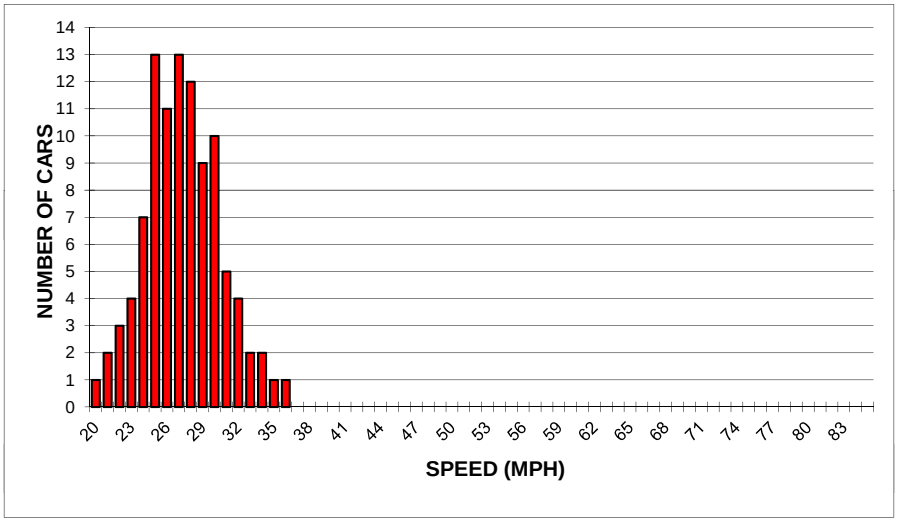
75	0	0	100





Loc 19 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Alessandro Road**
Segment: **From Repplier Road to Wilson Street**
DIRECTION: **Both Directions** DATE: 10/19/11
POSTED SPEED LIMITS: **35 MPH** TIME: 11:00 - 12:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			30.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	20	to	36

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			88
Percent over Pace Speed			8
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	3	3	4
22	4	4	8
23	10	10	18
24	9	9	27
25	13	13	40
26	8	8	48
27	10	10	58
28	10	10	68
29	11	11	79
30	9	9	88
31	4	4	92
32	3	3	95
33	1	1	96
34	2	2	98
35	1	1	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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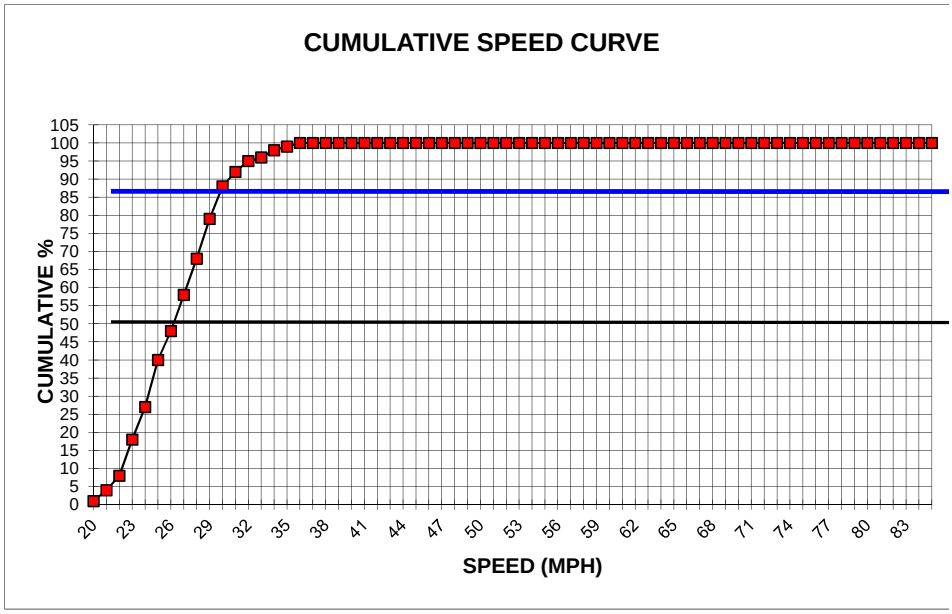
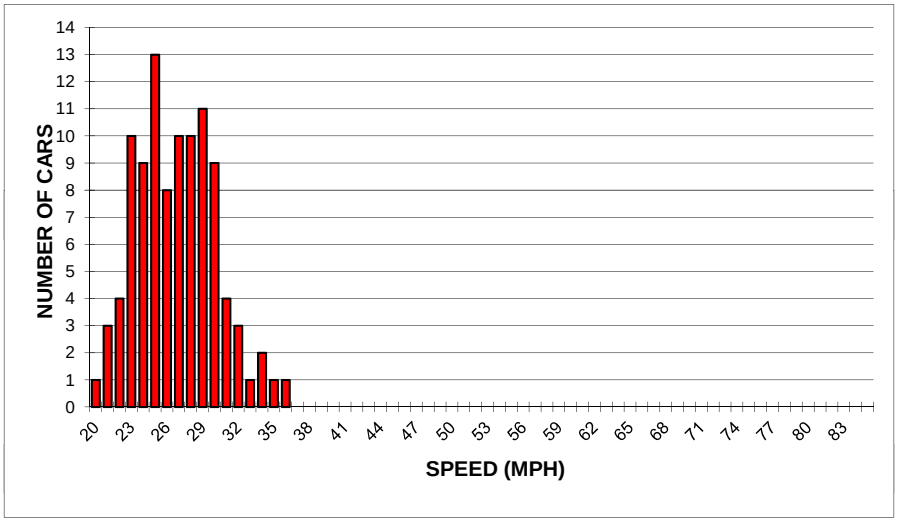
74	0	0	100
75	0	0	100





Loc 19 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "20"
Alessandro Rd - Wilson St to Ramsey St

Location: Alessandro Rd - Wilson St to Ramsey St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 10/19/2011	85th %tile Speed: 30 MPH
Posted Speed Limit: 30/25 MPH	Average Speed: 27 MPH
10 mph Pace Speed: 23-32 MPH	Percent in Pace Speed: 88%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: N/A		
Total Collisions:	At Intersections:	Mid-block:
Collision Rate: (MVM)	State Avg. Rate:	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.6 mile long, 36-ft wide, straight roadway
Traffic:	N/A ADT
Roadside:	Open/Mixed Use
Not Readily Apparent to Driver:	

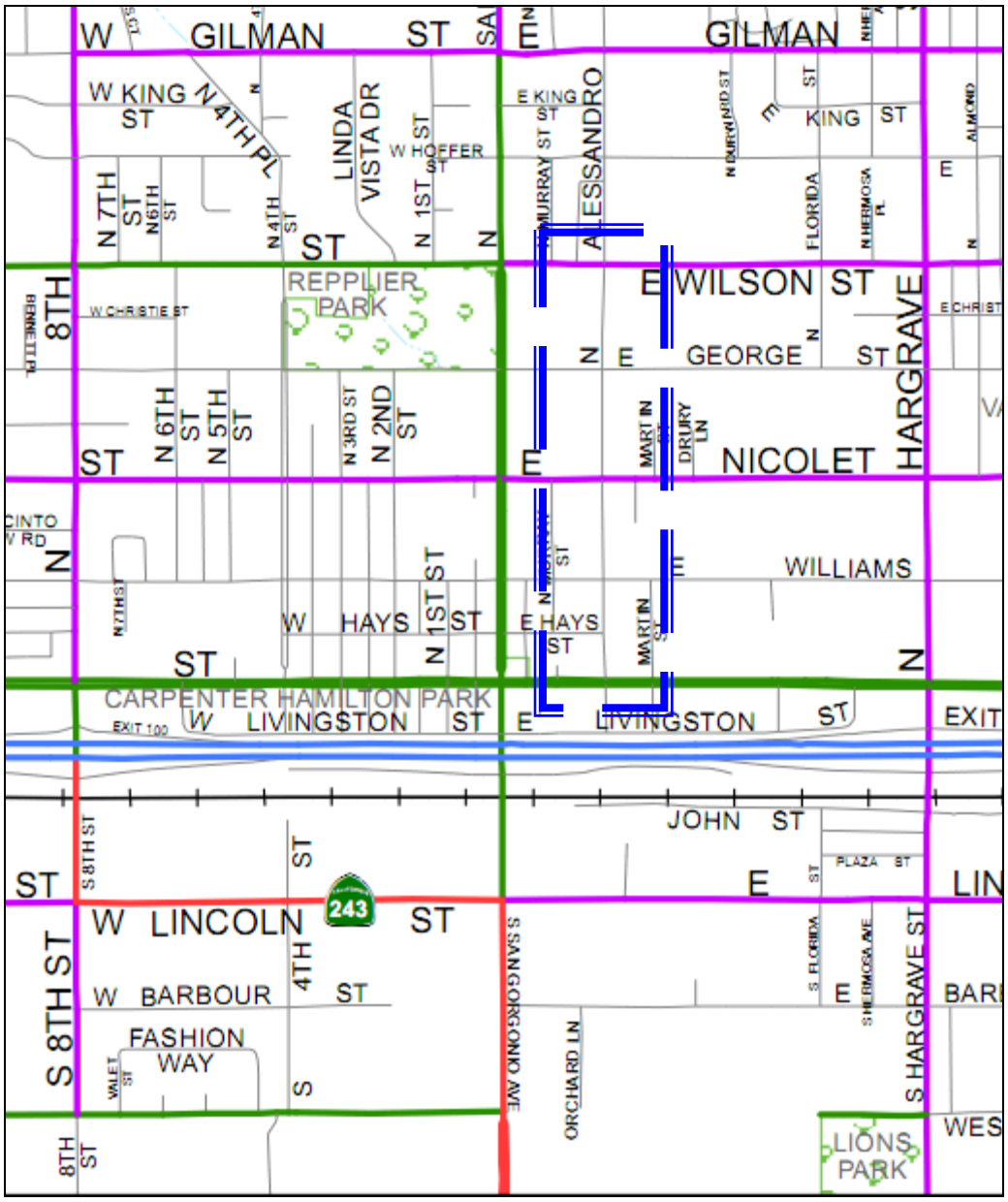
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**30 mph**

(*) - No recent collision records available

ZONE "20"

Radar Enforceable Speed Zone
Zone 20
Alessandro Road – From Wilson St to Ramsey St



Zone 20

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Alessandro Road**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **Northbound** DATE: 10/19/11
POSTED SPEED LIMITS: **30 MPH** TIME: 11:00 - 12:30
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			30.0
Number of Vehicles Observed			50
Average Speed			26
Range of Speeds	20	to	34

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			90
Percent over Pace Speed			6
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	2	2
21	1	2	4
22	2	4	8
23	6	12	20
24	6	12	32
25	7	14	46
26	4	8	54
27	4	8	62
28	5	10	72
29	5	10	82
30	4	8	90
31	2	4	94
32	1	2	96
33	1	2	98
34	1	2	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
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49	0	0	100
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52	0	0	100
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64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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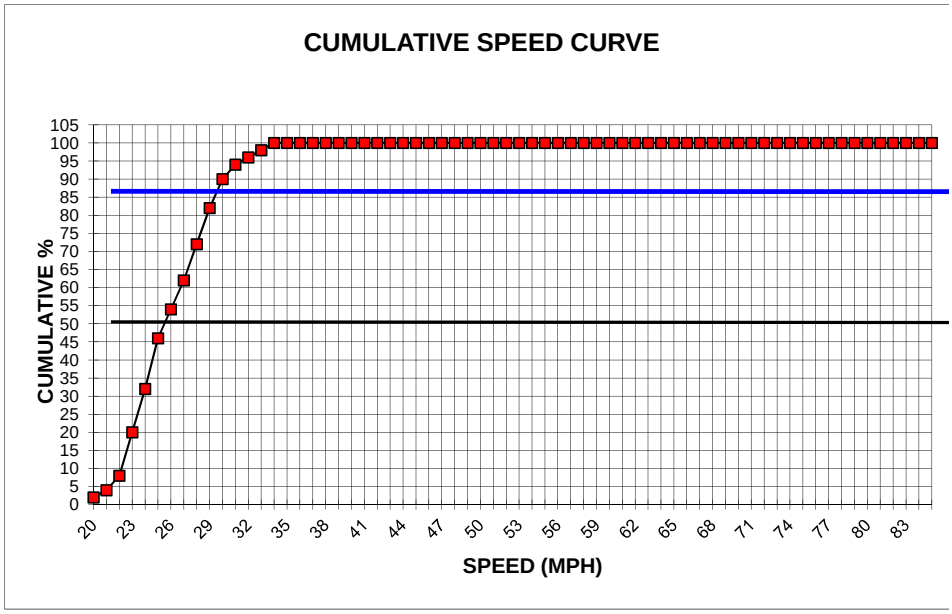
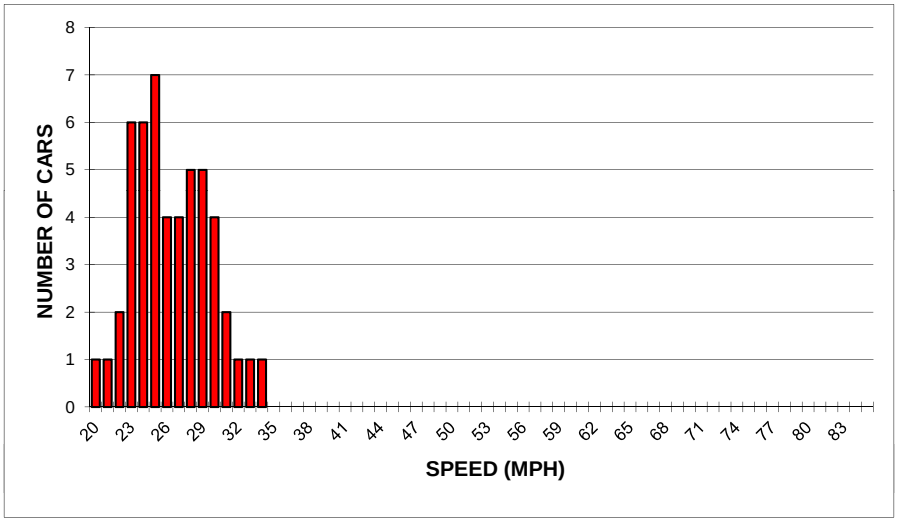
75	0	0	100





Loc 20 NB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Alessandro Road**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **Southbound** DATE: 10/19/11
POSTED SPEED LIMITS: **25MPH** TIME: 9:30 - 10:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			31.0
Number of Vehicles Observed			50
Average Speed			28
Range of Speeds	20	to	35

10 MPH Pace Speed	24	to	33
Percent in Pace Speed			90
Percent over Pace Speed			2
Percent under Pace Speed			8

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	2	2
21	1	2	4
22	1	2	6
23	1	2	8
24	2	4	12
25	7	14	26
26	6	12	38
27	7	14	52
28	5	10	62
29	4	8	70
30	5	10	80
31	4	8	88
32	3	6	94
33	2	4	98
34	0	0	98
35	1	2	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
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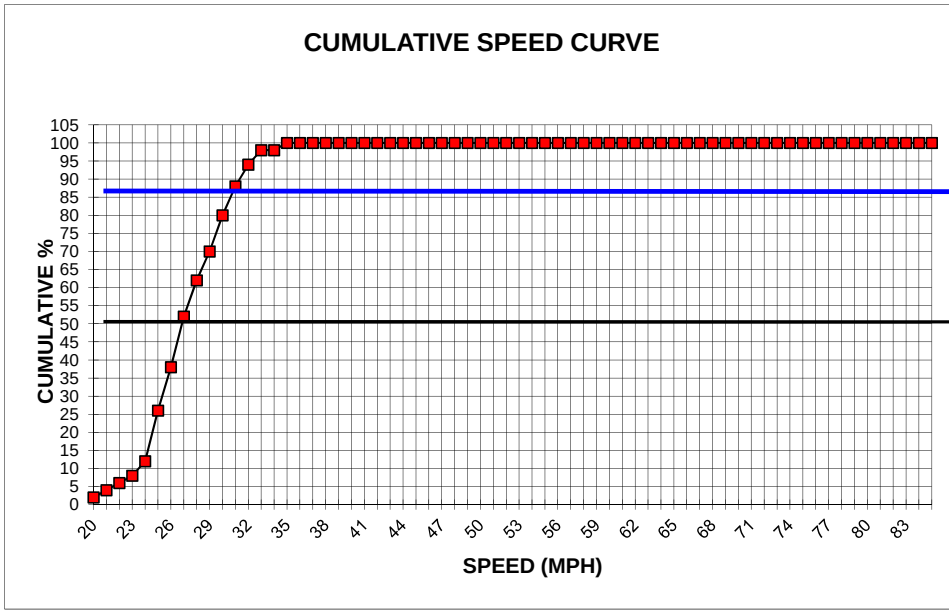

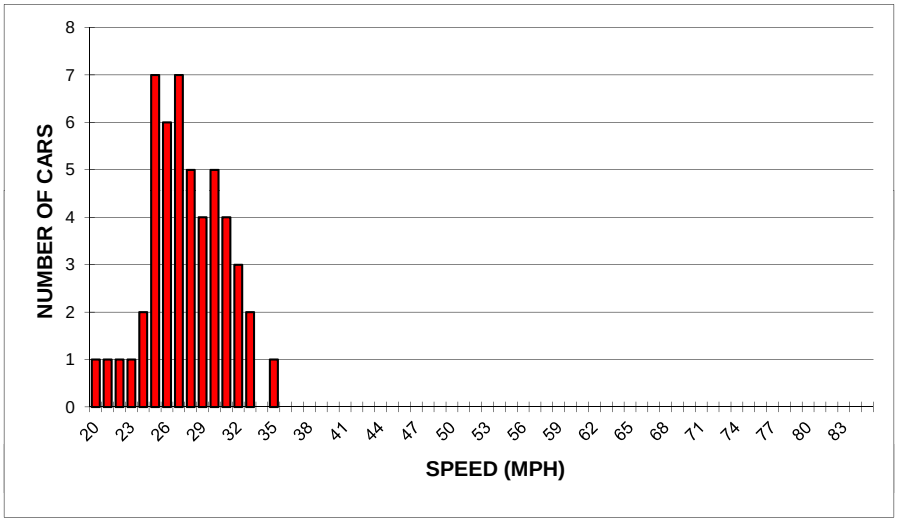

Loc 20 SB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Alessandro Road**
Segment: **From Wilson Street to Ramsey Street**
DIRECTION: **Both Directions** DATE: 10/19/11
POSTED SPEED LIMITS: **30 /25MPH** TIME: 09:30 - 12:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			30.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	20	to	35

10 MPH Pace Speed	23	to	32
Percent in Pace Speed			88
Percent over Pace Speed			5
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	2	2	2
21	2	2	4
22	3	3	7
23	7	7	14
24	8	8	22
25	14	14	36
26	10	10	46
27	11	11	57
28	10	10	67
29	9	9	76
30	9	9	85
31	6	6	91
32	4	4	95
33	3	3	98
34	1	1	99
35	1	1	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
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60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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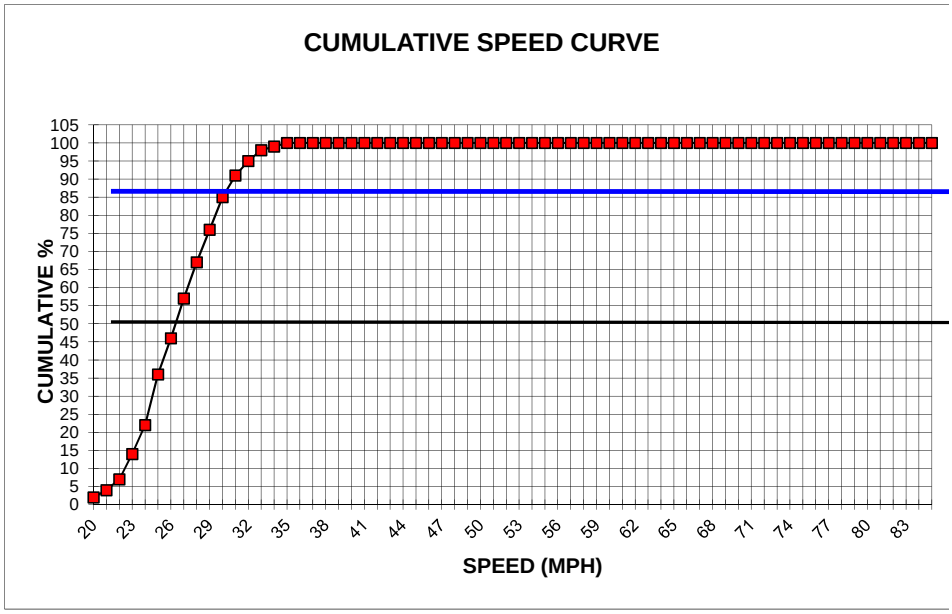
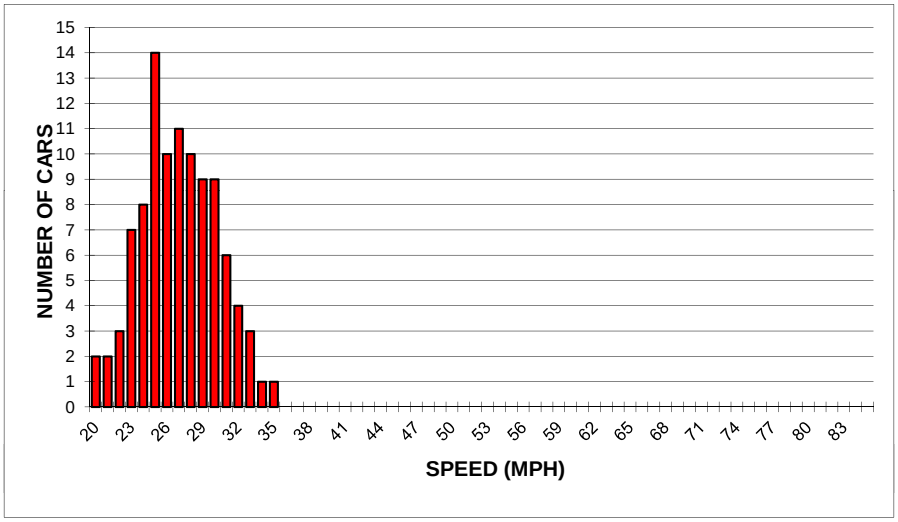
74	0	0	100
75	0	0	100





Loc 20 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "21"
Lincoln Street - Sunset Ave to 22nd St

Location: Lincoln Street - Sunset Ave to 22nd St	Original Limits: Sunset Ave to 8th St

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/1/2011	85th %tile Speed: 43 mph
Posted Speed Limit: 40 mph	Average Speed: 38 mph
10 mph Pace Speed: 34 - 43 mph	Percent in Pace Speed: 75%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 2	Mid-block: 0
Collision Rate: 3.65 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.6 mile long, 64-ft wide, straight roadway
Traffic:	2,500 ADT
Roadside:	Rural residential
Not Readily Apparent to Driver:	

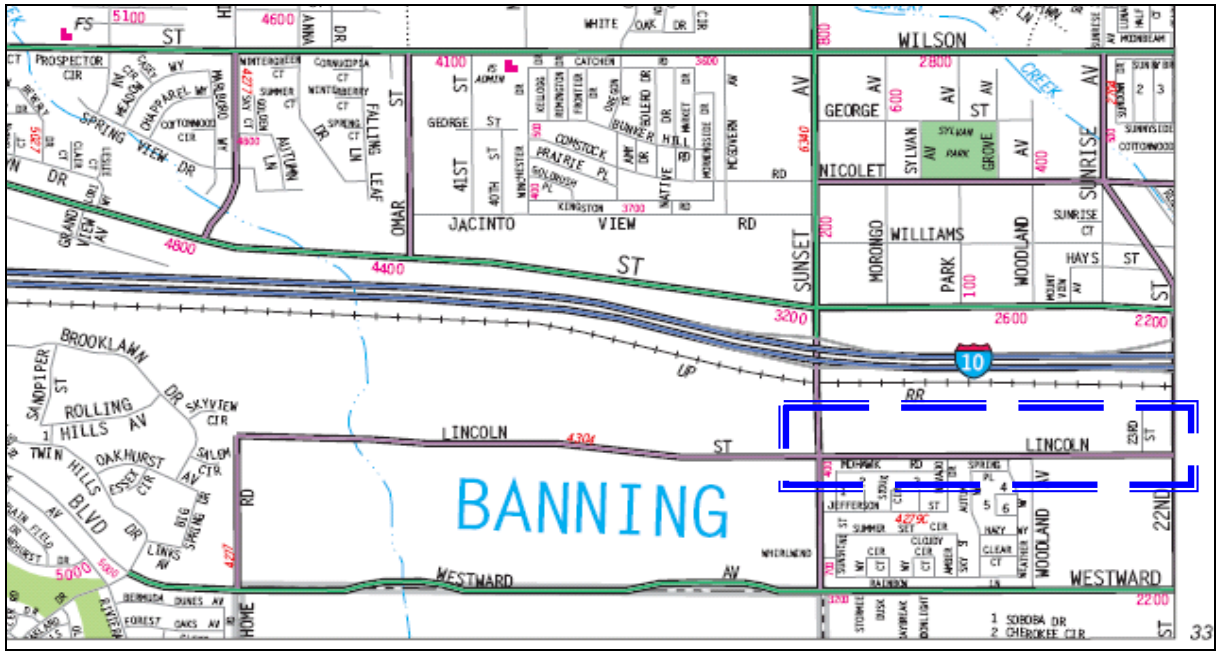
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**40 mph**

(*) - No recent collision records available

ZONE "21"

Radar Enforceable Speed Zone
Zone 21
Lincoln Street – From Sunset Ave to 22nd St



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Lincoln Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **EB** DATE: 8/1/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	34 to 43
85th Percentile Speed	43.0	Percent in Pace Speed	76
Number of Vehicles Observed	100	Percent over Pace Speed	12
Average Speed	39	Percent under Pace Speed	12
Range of Speeds	29 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	1	1	1
30	1	1	2
31	1	1	3
32	3	3	6
33	6	6	12
34	4	4	16
35	1	1	17
36	16	16	33
37	12	12	45
38	11	11	56
39	5	5	61
40	7	7	68
41	10	10	78
42	3	3	81
43	7	7	88
44	2	2	90
45	3	3	93
46	2	2	95
47	2	2	97
48	1	1	98
49	1	1	99
50	0	0	99
51	0	0	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
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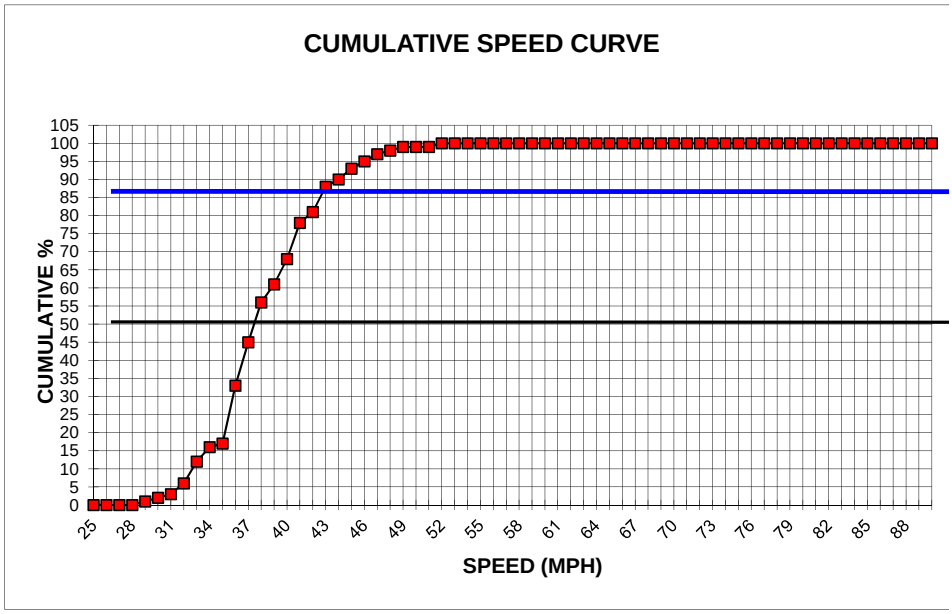

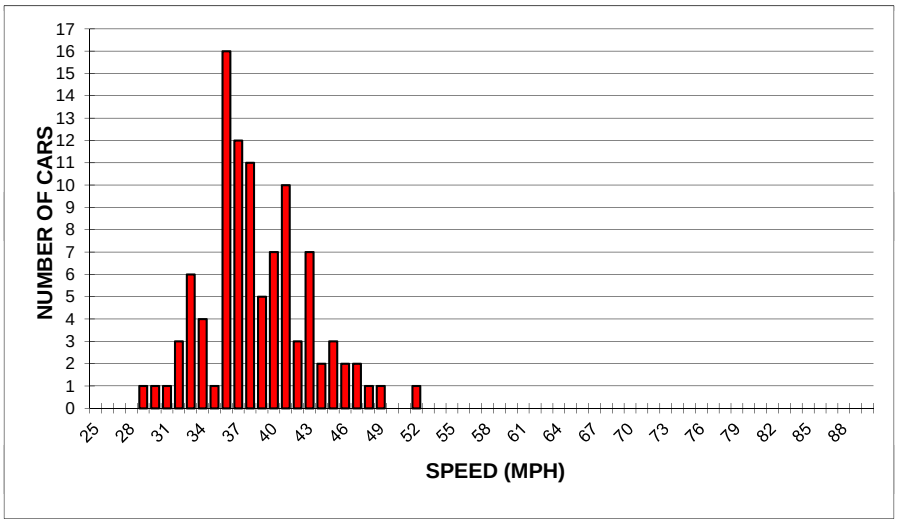

Loc 21 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Lincoln Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **WB** DATE: 8/1/11
POSTED SPEED LIMITS: **40 MPH** TIME: 10:30 - 11:30
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	43.0	Percent in Pace Speed	74
Number of Vehicles Observed	100	Percent over Pace Speed	20
Average Speed	38	Percent under Pace Speed	6
Range of Speeds	28 to 51		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	3	3	4
30	1	1	5
31	1	1	6
32	4	4	10
33	6	6	16
34	2	2	18
35	9	9	27
36	15	15	42
37	5	5	47
38	9	9	56
39	9	9	65
40	5	5	70
41	10	10	80
42	4	4	84
43	6	6	90
44	1	1	91
45	3	3	94
46	3	3	97
47	1	1	98
48	1	1	99
49	0	0	99
50	0	0	99
51	1	1	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
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73	0	0	100
74	0	0	100
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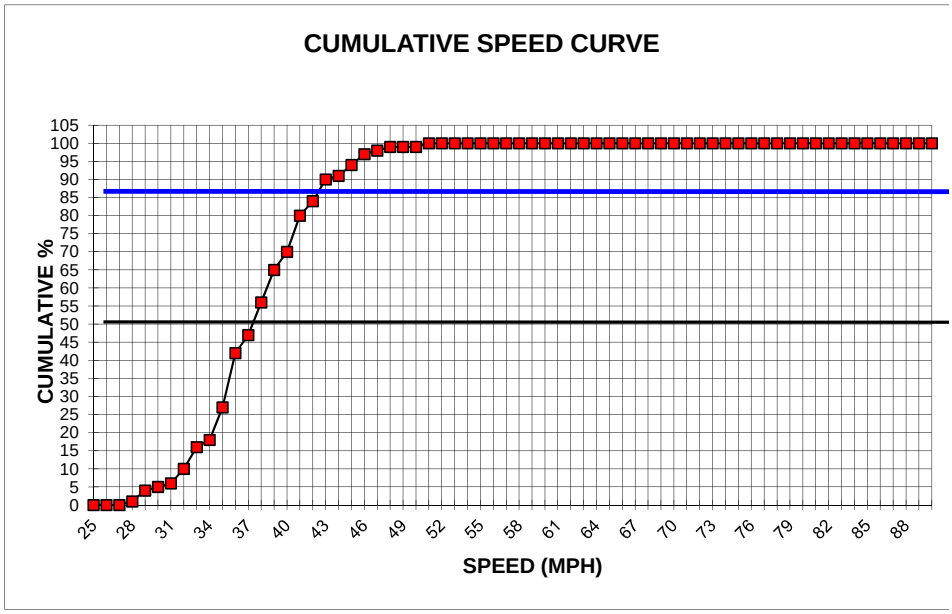
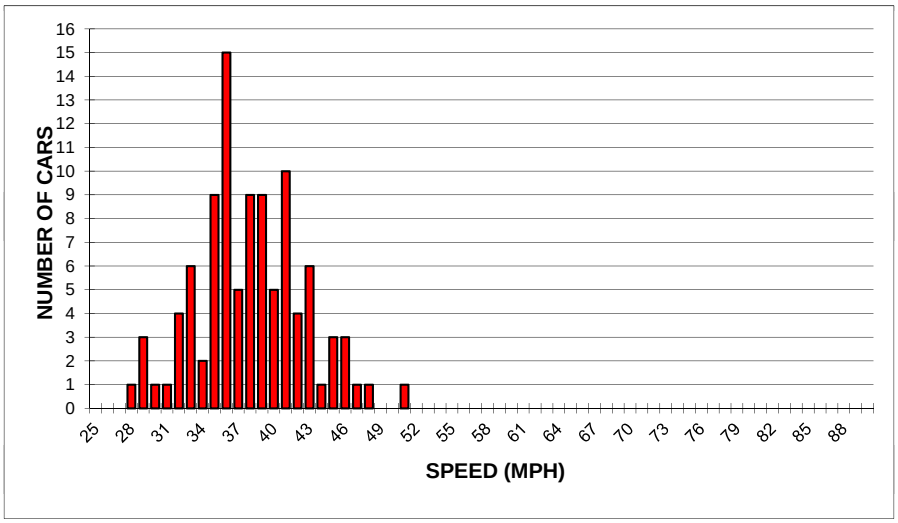
79	0	0	100
80	0	0	100





Loc 21 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Lincoln Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **Both Directions** DATE: 8/1/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00 - 11:30
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	34 to 43
85th Percentile Speed	43.0	Percent in Pace Speed	75
Number of Vehicles Observed	200	Percent over Pace Speed	11
Average Speed	38	Percent under Pace Speed	14
Range of Speeds	28 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	4	2	3
30	2	1	4
31	2	1	5
32	7	4	8
33	12	6	14
34	6	3	17
35	10	5	22
36	31	16	38
37	17	9	46
38	20	10	56
39	14	7	63
40	12	6	69
41	20	10	79
42	7	4	83
43	13	7	89
44	3	2	91
45	6	3	94
46	5	3	96
47	3	2	98
48	2	1	99
49	1	1	99
50	0	0	99
51	1	1	100
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
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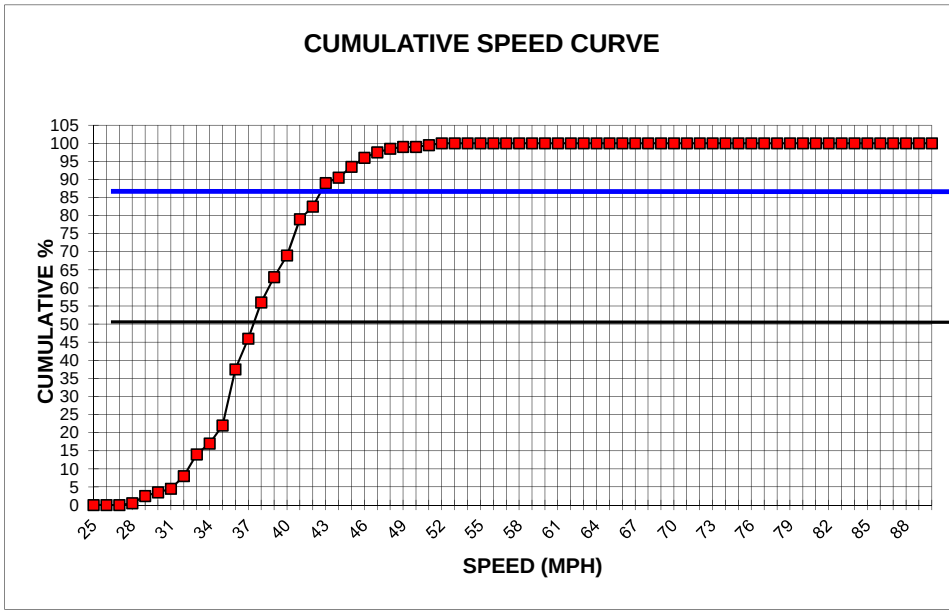
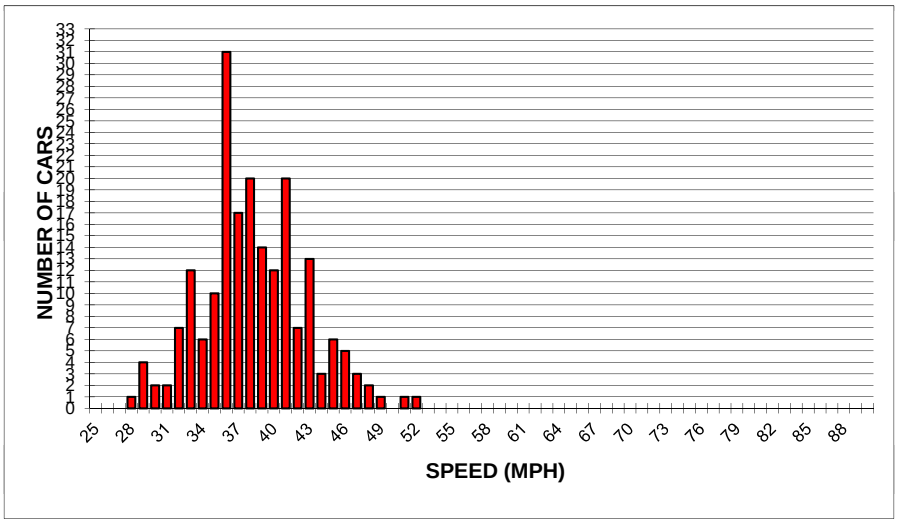
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 21 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "22"
Lincoln Street - 22nd St to 8th St

Location: Lincoln Street - 22nd St to 8th St	Original Limits: Sunset Ave to 8th St

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/2/2011	85th %tile Speed: 44 mph
Posted Speed Limit: 40 mph	Average Speed: 39 mph
10 mph Pace Speed: 34 - 43 mph	Percent in Pace Speed: 75%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 2	Mid-block 0
Collision Rate: 3.65 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.9 mile long, 64-ft wide, straight roadway
Traffic:	2,500 ADT
Roadside:	Rural residential
Not Readily Apparent to Driver:	

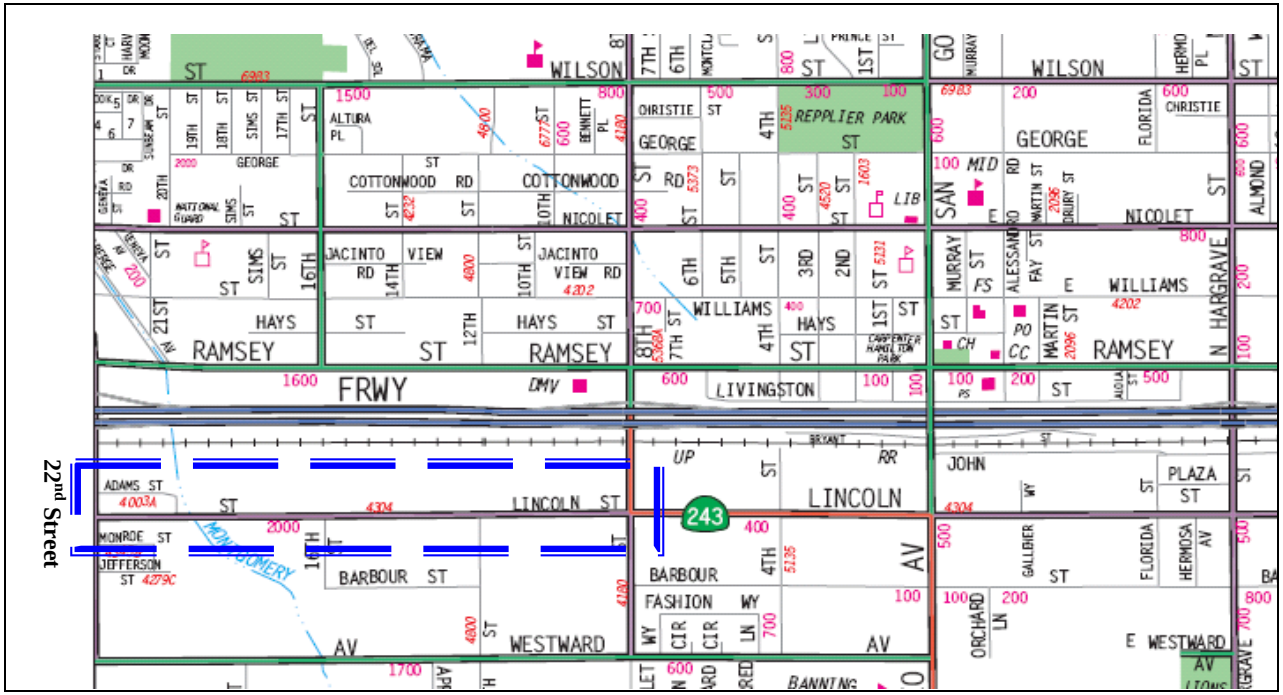
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**40 mph**

(*) - No recent collision records available

ZONE "22"

Radar Enforceable Speed Zone
Zone 22
Lincoln Street – From 22nd St to 8th St



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Lincoln Street**
Segment: **From 22nd Street to 8th Street**
DIRECTION: **EB** DATE: 8/2/11
POSTED SPEED LIMITS: **40 MPH** TIME: 15:00 - 16:00
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	34 to 43
85th Percentile Speed	44.0	Percent in Pace Speed	75
Number of Vehicles Observed	75	Percent over Pace Speed	16
Average Speed	39	Percent under Pace Speed	9
Range of Speeds	30 to 50		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	1	1	1
31	1	1	3
32	3	4	7
33	2	3	9
34	5	7	16
35	3	4	20
36	10	13	33
37	5	7	40
38	8	11	51
39	4	5	56
40	3	4	60
41	8	11	71
42	4	5	76
43	6	8	84
44	3	4	88
45	4	5	93
46	2	3	96
47	1	1	97
48	1	1	99
49	0	0	99
50	1	1	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
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82	0	0	100
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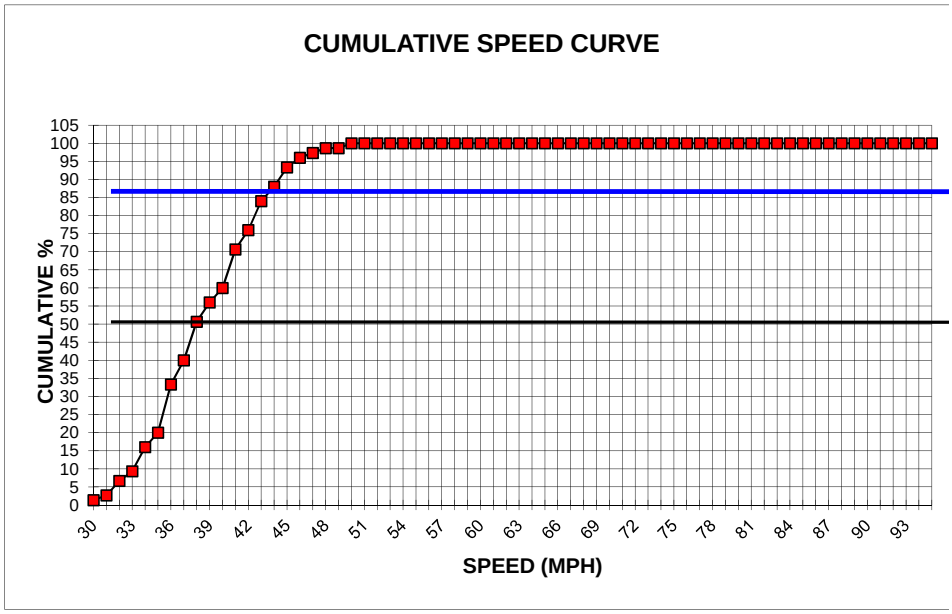
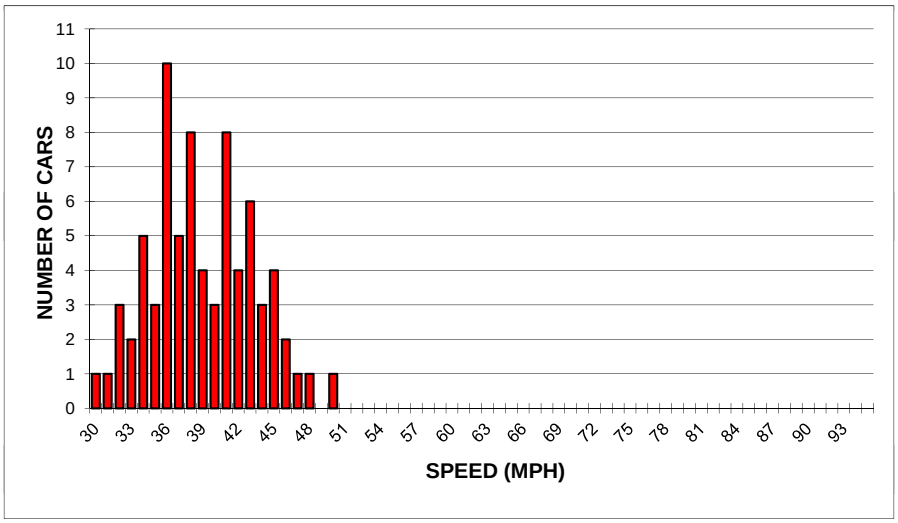
84	0	0	100
85	0	0	100





Loc 22 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Lincoln Street**
Segment: **From 22nd Street to 8th Street**
DIRECTION: **WB** DATE: 8/2/11
POSTED SPEED LIMITS: **40 MPH** TIME: 13:00 - 14:30
WEATHER: Clear

50th Percentile Speed	39.0	10 MPH Pace Speed	34 to 43
85th Percentile Speed	43.0	Percent in Pace Speed	80
Number of Vehicles Observed	75	Percent over Pace Speed	15
Average Speed	40	Percent under Pace Speed	5
Range of Speeds	32 to 54		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	1	1	1
33	3	4	5
34	2	3	8
35	1	1	9
36	8	11	20
37	7	9	29
38	9	12	41
39	14	19	60
40	7	9	69
41	6	8	77
42	2	3	80
43	4	5	85
44	1	1	87
45	1	1	88
46	1	1	89
47	3	4	93
48	0	0	93
49	1	1	95
50	1	1	96
51	2	3	99
52	0	0	99
53	0	0	99
54	1	1	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
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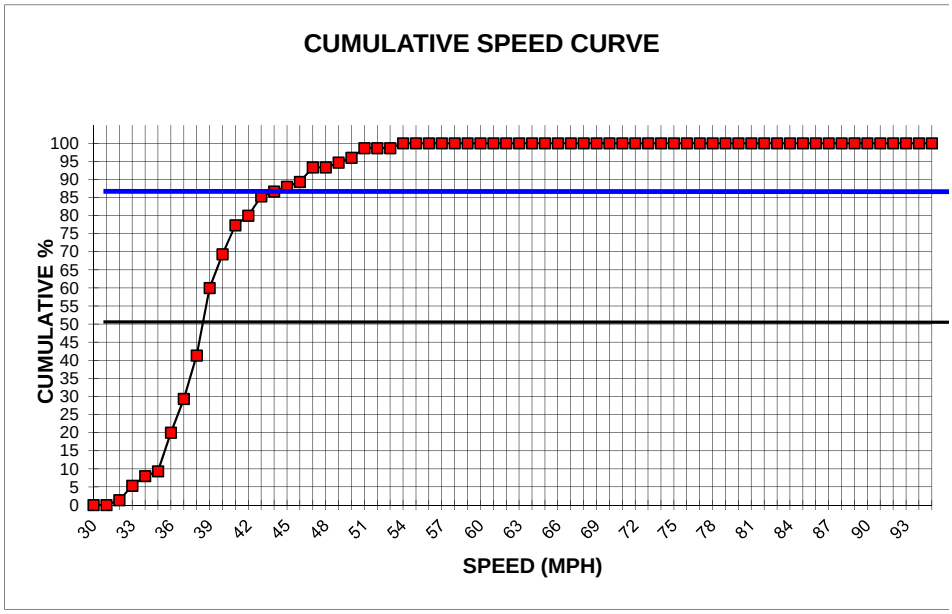
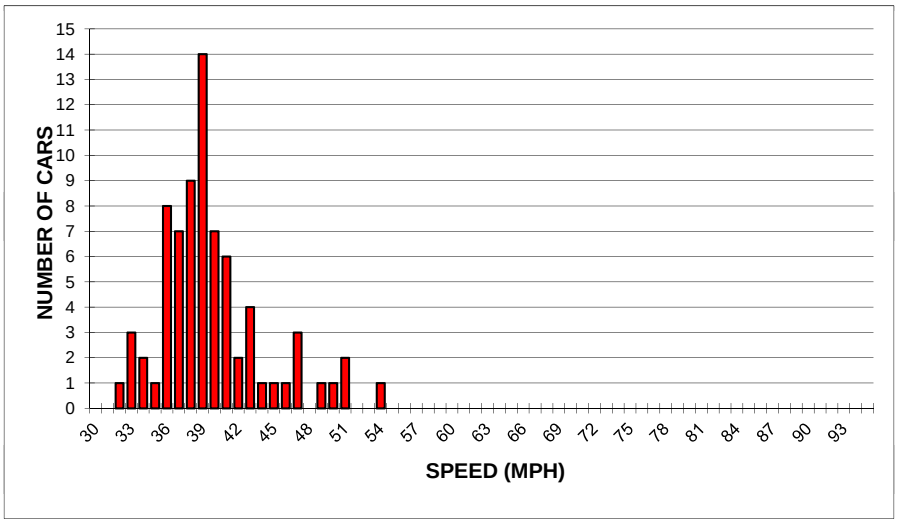
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 22 WB

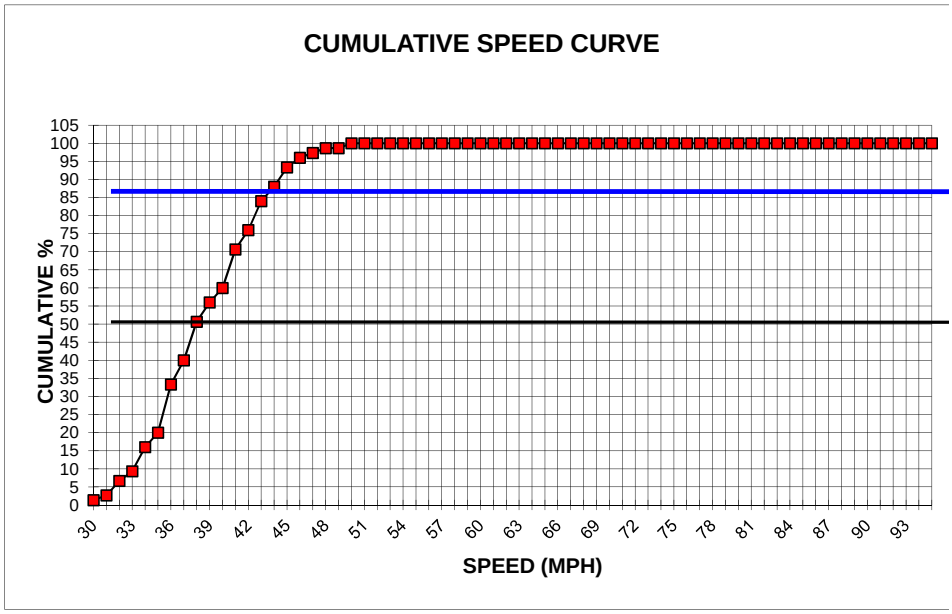
SPEED ZONE SURVEY SHEET

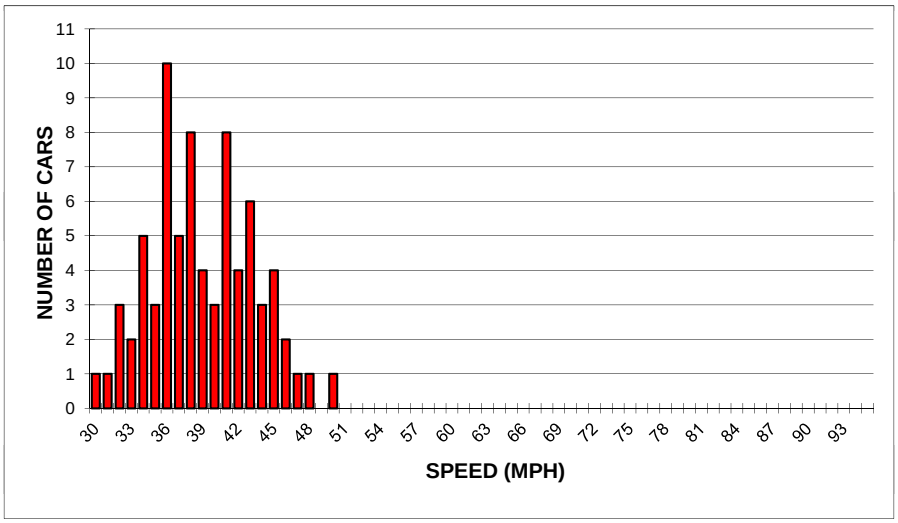
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Lincoln Street**
Segment: **From 22nd Street to 8th Street**
DIRECTION: **Both Directions** DATE: 8/2/11
POSTED SPEED LIMITS: **40 MPH** TIME: 13:00 - 16:00
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	34 to 43
85th Percentile Speed	44.0	Percent in Pace Speed	75
Number of Vehicles Observed	75	Percent over Pace Speed	16
Average Speed	39	Percent under Pace Speed	9
Range of Speeds	30 to 50		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	1	1	1
31	1	1	3
32	3	4	7
33	2	3	9
34	5	7	16
35	3	4	20
36	10	13	33
37	5	7	40
38	8	11	51
39	4	5	56
40	3	4	60
41	8	11	71
42	4	5	76
43	6	8	84
44	3	4	88
45	4	5	93
46	2	3	96
47	1	1	97
48	1	1	99
49	0	0	99
50	1	1	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 22 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "23"
Lincoln Street - 8th St to San Gorgonio Ave (SR 243)

Location: Lincoln Street - 8th St to San Gorgonio Ave	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/2/2011	85th %tile Speed: 43 mph
Posted Speed Limit: 40 mph	Average Speed: 39 mph
10 mph Pace Speed: 34 - 43 mph	Percent in Pace Speed: 75%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 6	At Intersections: 4	Mid-block: 2
Collision Rate: 4.98 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

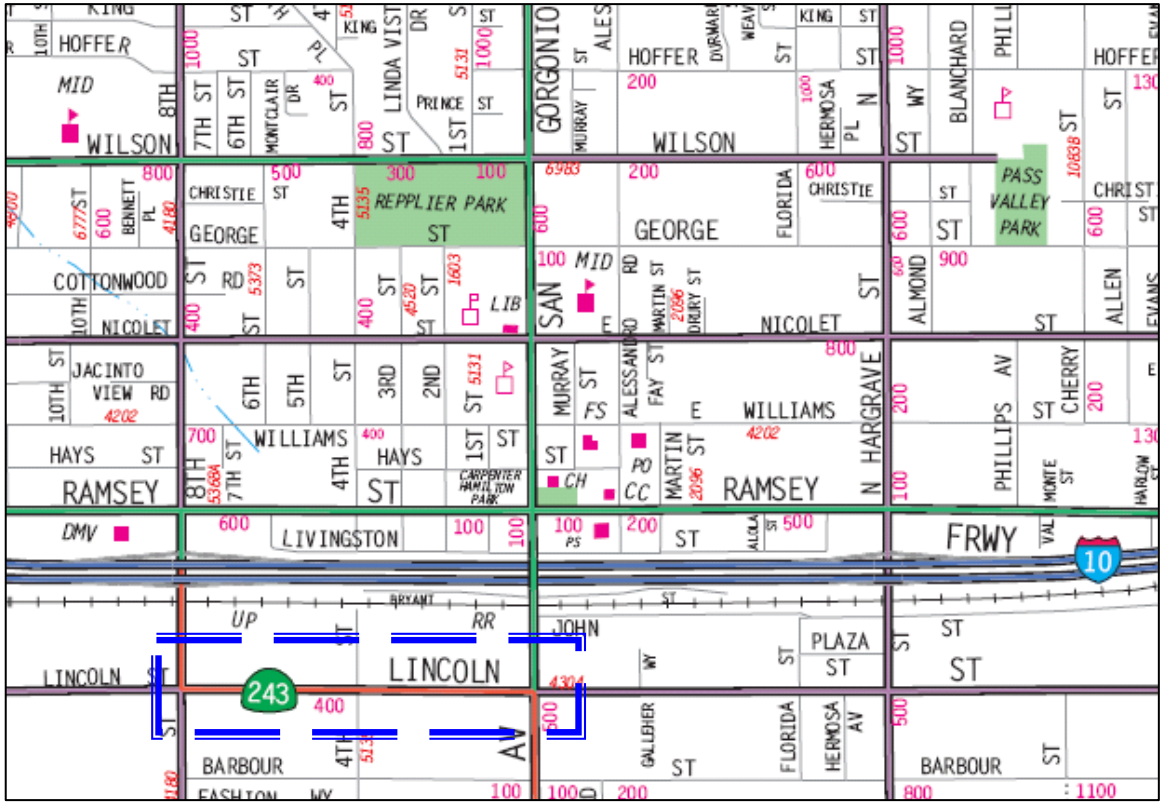
Roadway:	1.0 mile long, 44-ft/var wide, straight
Traffic:	3,300 ADT
Roadside:	Rural residential
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit: **40 mph (consistent with Caltrans speed limit)**
Under Caltrans jusridiction

(*) - No recent collision records available

Enforceable Speed Zone
Zone 23
Lincoln Street – From 8th St to San Gorgonio Ave



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Lincoln Street**
Segment: **From 8th Street to San Gorgonio Avenue**
DIRECTION: **EB** DATE: 8/2/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	38.0	10 MPH Pace Speed	34 to 43
85th Percentile Speed	43.0	Percent in Pace Speed	76
Number of Vehicles Observed	100	Percent over Pace Speed	13
Average Speed	39	Percent under Pace Speed	11
Range of Speeds	29 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	1	1	1
30	0	0	1
31	1	1	2
32	5	5	7
33	4	4	11
34	5	5	16
35	10	10	26
36	5	5	31
37	7	7	38
38	13	13	51
39	6	6	57
40	10	10	67
41	5	5	72
42	10	10	82
43	5	5	87
44	2	2	89
45	6	6	95
46	1	1	96
47	0	0	96
48	2	2	98
49	1	1	99
50	0	0	99
51	0	0	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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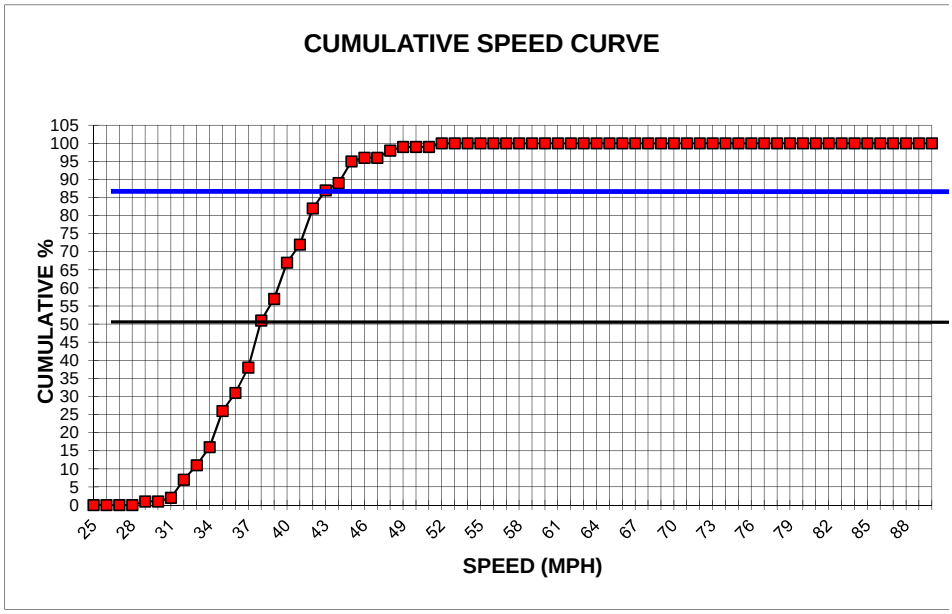
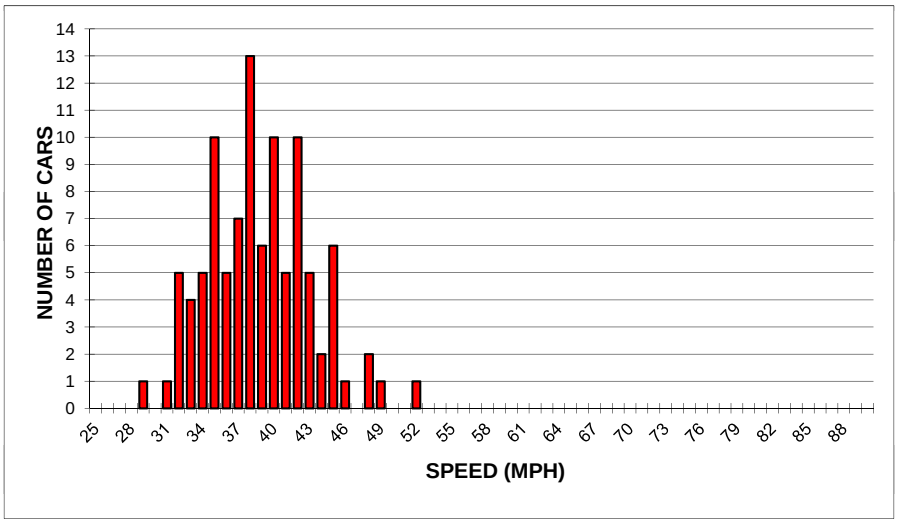
79	0	0	100
80	0	0	100





Loc 23 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Lincoln Street**
Segment: **From 8th Street to San Gorgonio Avenue**
DIRECTION: **WB** DATE: 8/2/11
POSTED SPEED LIMITS: **40 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed	39.0	10 MPH Pace Speed	35 to 44
85th Percentile Speed	43.0	Percent in Pace Speed	76
Number of Vehicles Observed	100	Percent over Pace Speed	9
Average Speed	39	Percent under Pace Speed	15
Range of Speeds	30 to 51		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	4	4	4
31	1	1	5
32	5	5	10
33	3	3	13
34	2	2	15
35	9	9	24
36	8	8	32
37	4	4	36
38	13	13	49
39	6	6	55
40	6	6	61
41	10	10	71
42	6	6	77
43	9	9	86
44	5	5	91
45	5	5	96
46	1	1	97
47	1	1	98
48	1	1	99
49	0	0	99
50	0	0	99
51	1	1	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
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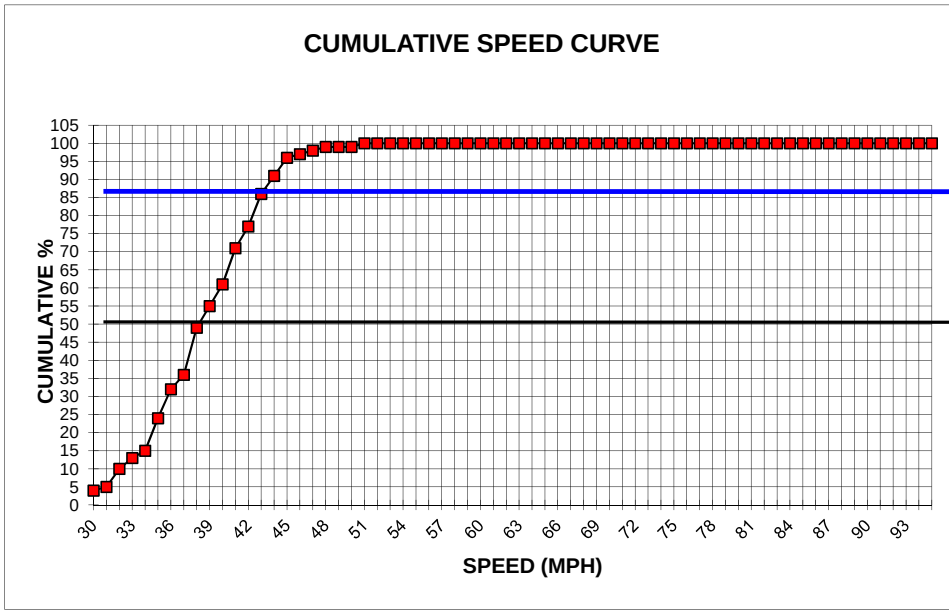
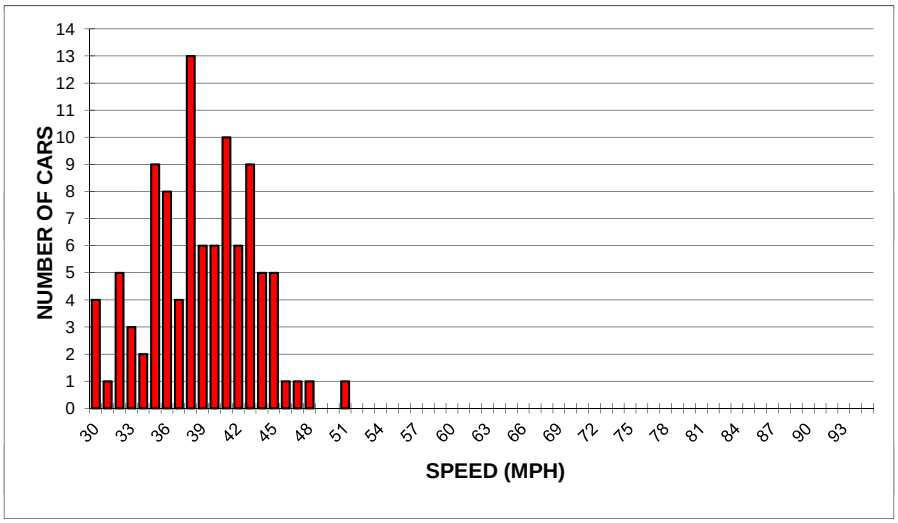
85	0	0	100





Loc 23 WB

SPEED ZONE SURVEY SHEET

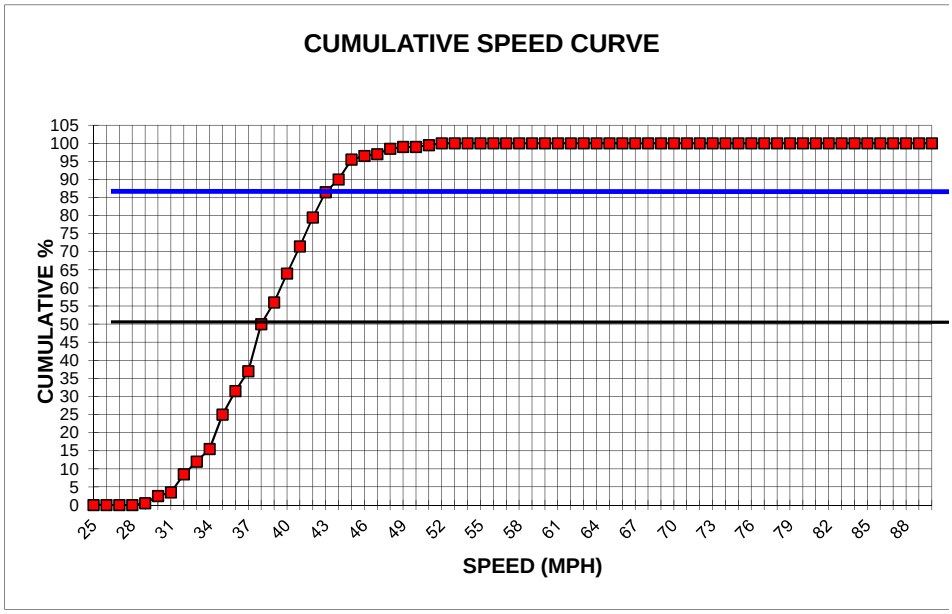
City of Banning
Public Works Department
Kahono Oei, City Engineer

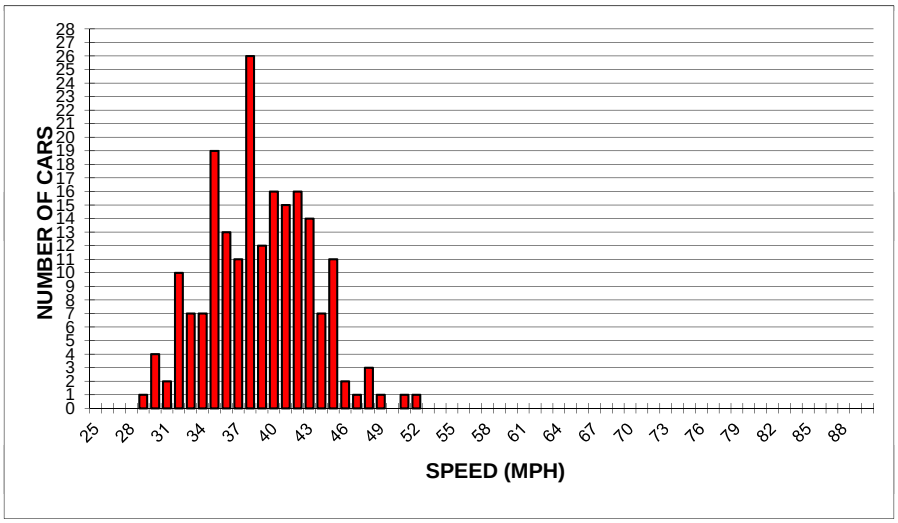
Street **Lincoln Street**
Segment: **From 8th Street to San Gorgonio Avenue**
DIRECTION: **Both Directions** DATE: 8/2/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00 - 12:00
WEATHER: Clear

50th Percentile Speed			38.0
85th Percentile Speed			43.0
Number of Vehicles Observed			200
Average Speed			39
Range of Speeds	29	to	52

10 MPH Pace Speed	34	to	43
Percent in Pace Speed			75
Percent over Pace Speed			14
Percent under Pace Speed			12

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	1	1	1
30	4	2	3
31	2	1	4
32	10	5	9
33	7	4	12
34	7	4	16
35	19	10	25
36	13	7	32
37	11	6	37
38	26	13	50
39	12	6	56
40	16	8	64
41	15	8	72
42	16	8	80
43	14	7	87
44	7	4	90
45	11	6	96
46	2	1	97
47	1	1	97
48	3	2	99
49	1	1	99
50	0	0	99
51	1	1	100
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 23 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "24"
Lincoln Street - San Gorgonio Ave to Hathaway St

Location: Lincoln Street - San Gorgonio Ave to Hathaway St	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/4/2011	85th %tile Speed: 42 mph
Posted Speed Limit: 40 mph	Average Speed: 37 mph
10 mph Pace Speed: 30 - 39 mph	Percent in Pace Speed: 67%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 3	At Intersections: 2	Mid-block: 1
Collision Rate: 2.00 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	1.0 mile long, 44-ft wide, straight roadway
Traffic:	4,100 ADT
Roadside:	Rural residential with industrial and open/agriculture
Not Readily Apparent to Driver:	

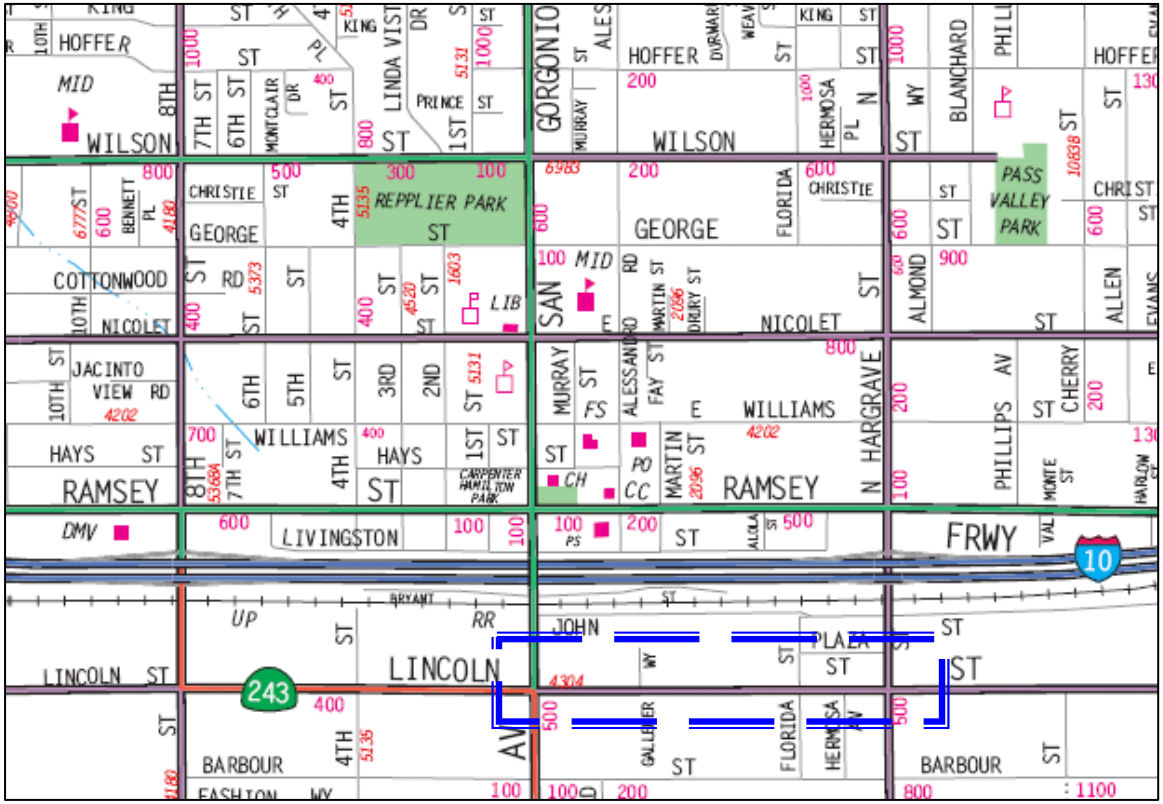
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**40 mph**

(*) - No recent collision records available

ZONE "24"

Radar Enforceable Speed Zone
Zone 24
Lincoln Street – From San Gorgonio Ave to Hathaway St



SPEED ZONE SURVEY SHEET

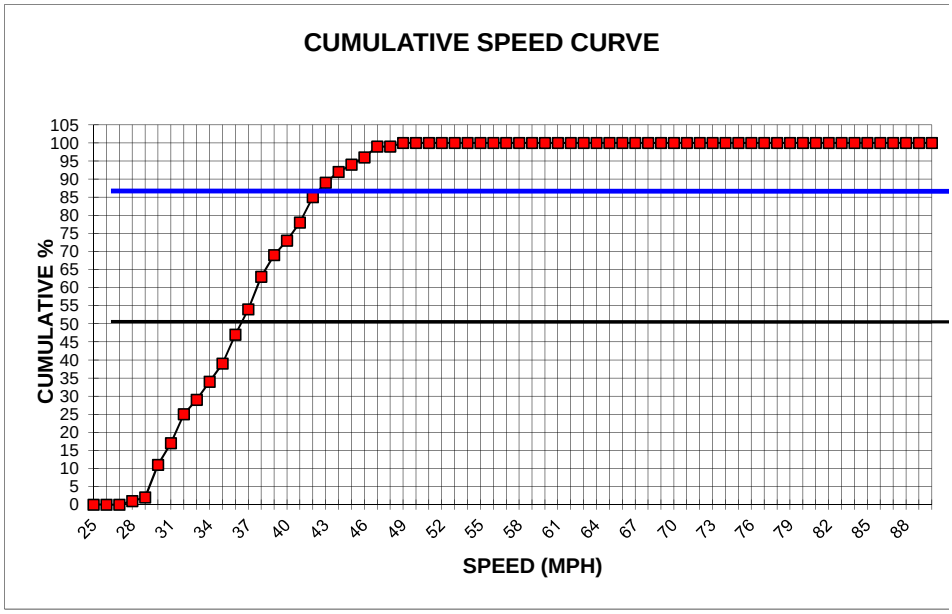
City of Banning
Public Works Department
Kahono Oei, City Engineer

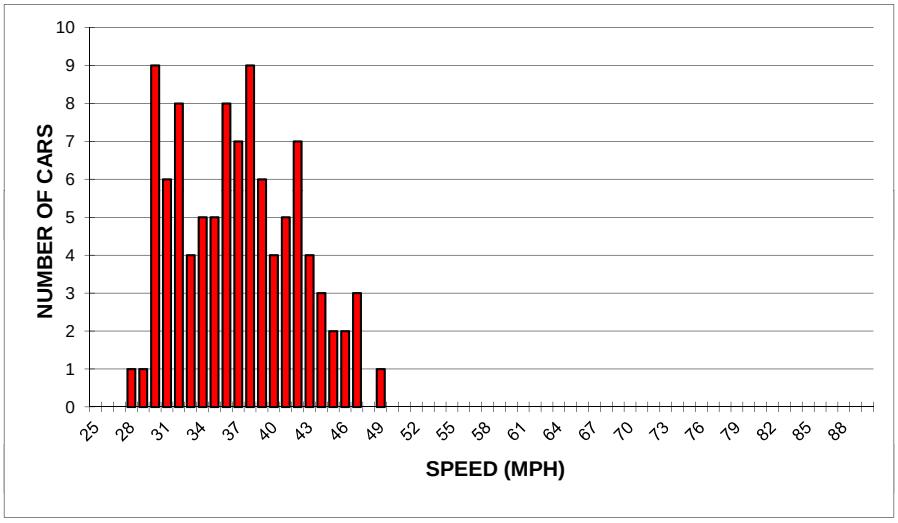
Street **Lincoln Street**
Segment: **From San Gorgonio Avenue to Hathaway Street**
DIRECTION: **EB** DATE: 8/4/11
POSTED SPEED LIMITS: **40 MPH** TIME: 10:20 - 11:20
WEATHER: Clear

50th Percentile Speed			37.0
85th Percentile Speed			42.0
Number of Vehicles Observed			100
Average Speed			37
Range of Speeds	28	to	49

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			67
Percent over Pace Speed			31
Percent under Pace Speed			2

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	1	1	2
30	9	9	11
31	6	6	17
32	8	8	25
33	4	4	29
34	5	5	34
35	5	5	39
36	8	8	47
37	7	7	54
38	9	9	63
39	6	6	69
40	4	4	73
41	5	5	78
42	7	7	85
43	4	4	89
44	3	3	92
45	2	2	94
46	2	2	96
47	3	3	99
48	0	0	99
49	1	1	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 24 EB

SPEED ZONE SURVEY SHEET

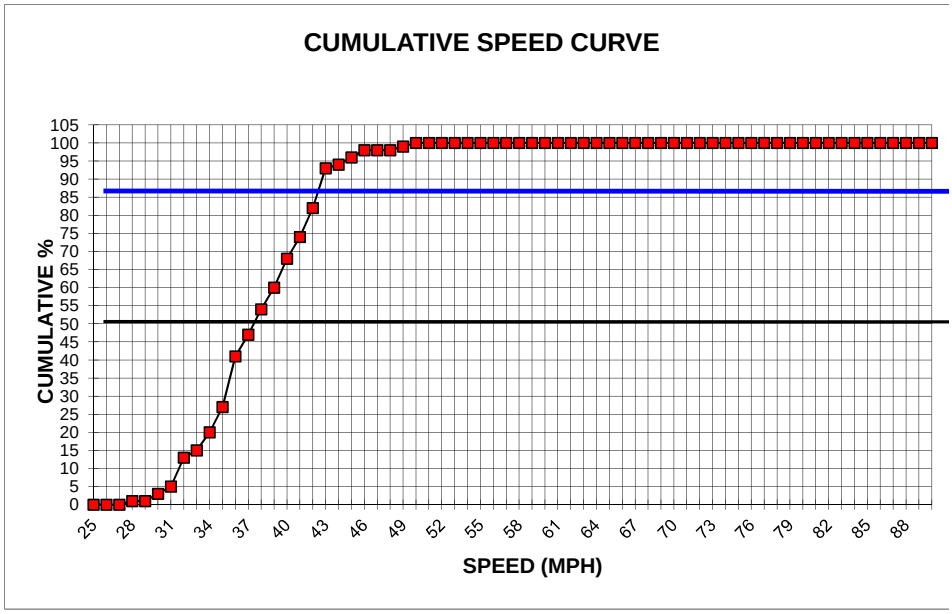
City of Banning
Public Works Department
Kahono Oei, City Engineer

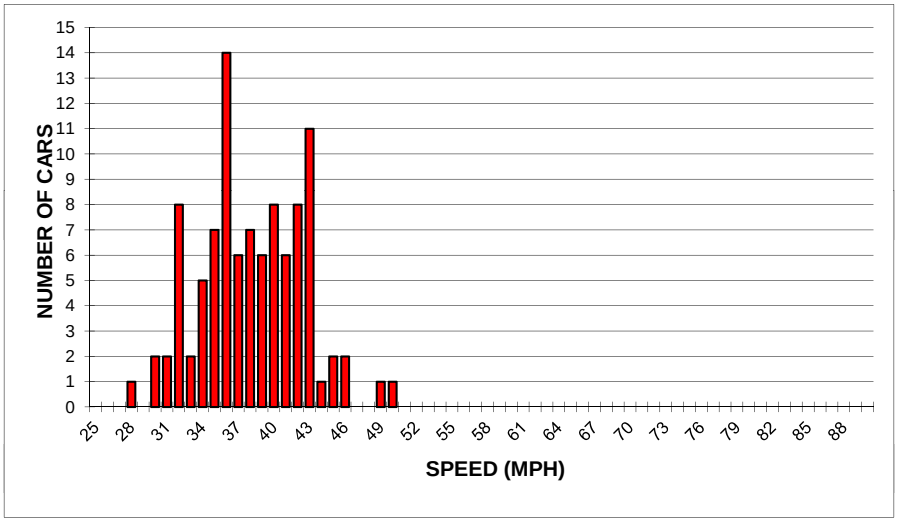
Roadway: **Lincoln Street**
Segment: **From San Gorgonio Avenue to Hathaway Street**
DIRECTION: **WB** DATE: 8/4/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed			38.0
85th Percentile Speed			43.0
Number of Vehicles Observed			100
Average Speed			38
Range of Speeds	28	to	50

10 MPH Pace Speed	34	to	43
Percent in Pace Speed			78
Percent over Pace Speed			7
Percent under Pace Speed			15

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	0	0	1
30	2	2	3
31	2	2	5
32	8	8	13
33	2	2	15
34	5	5	20
35	7	7	27
36	14	14	41
37	6	6	47
38	7	7	54
39	6	6	60
40	8	8	68
41	6	6	74
42	8	8	82
43	11	11	93
44	1	1	94
45	2	2	96
46	2	2	98
47	0	0	98
48	0	0	98
49	1	1	99
50	1	1	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 24 WB

SPEED ZONE SURVEY SHEET

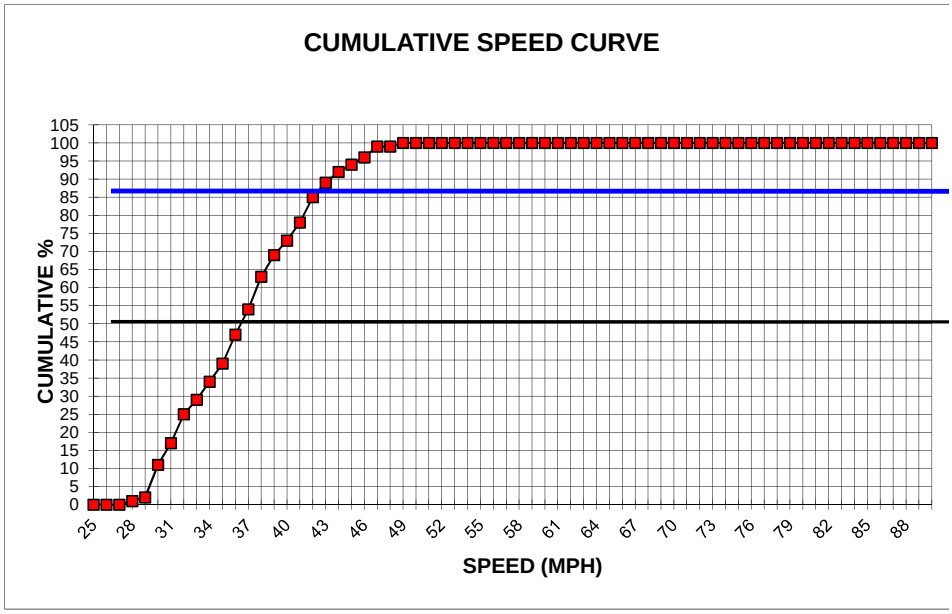
City of Banning
Public Works Department
Kahono Oei, City Engineer

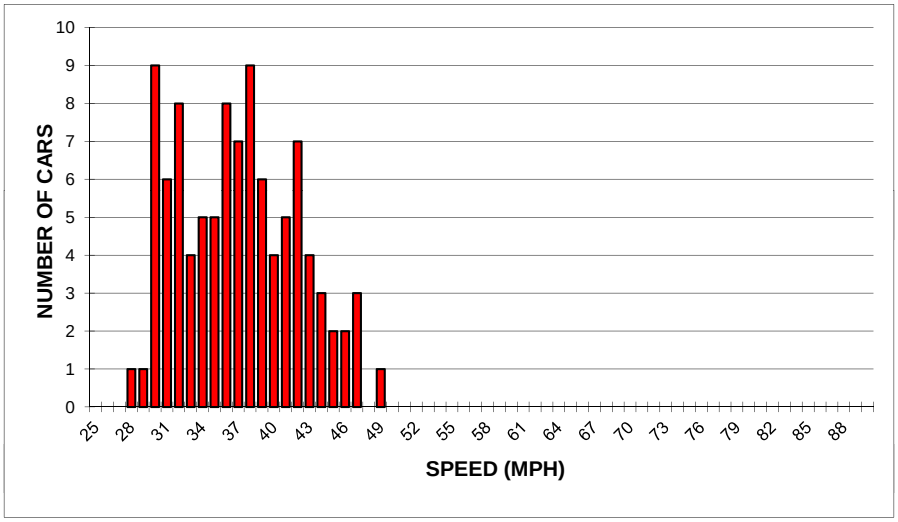
Street **Lincoln Street**
Segment: **From San Gorgonio Avenue to Hathway Street**
DIRECTION: **Both Directions** DATE: 8/4/11
POSTED SPEED LIMITS: **40 MPH** TIME: 09:00- 11:20
WEATHER: Clear

50th Percentile Speed			37.0
85th Percentile Speed			42.0
Number of Vehicles Observed			100
Average Speed			37
Range of Speeds	28	to	49

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			67
Percent over Pace Speed			31
Percent under Pace Speed			2

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	1	1	2
30	9	9	11
31	6	6	17
32	8	8	25
33	4	4	29
34	5	5	34
35	5	5	39
36	8	8	47
37	7	7	54
38	9	9	63
39	6	6	69
40	4	4	73
41	5	5	78
42	7	7	85
43	4	4	89
44	3	3	92
45	2	2	94
46	2	2	96
47	3	3	99
48	0	0	99
49	1	1	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 24 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "25"
Ramsey Street - From Highland Springs Rd to Highland Home Rd

Location: Ramsey Street - From Highland Springs Ave to Highland Home Rd	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/22/2011	85th %tile Speed: 53 mph
Posted Speed Limit: 50 mph	Average Speed: 48 mph
10 mph Pace Speed: 44 - 53 mph	Percent in Pace Speed: 72%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 16	At Intersections: 9	Mid-block: 7
Collision Rate: 2.25 (MVM)	State Avg. Rate: 2.10 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	1.0 mile long, 86-ft wide with raised median, straight/curved roadway
Traffic:	19,500 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	

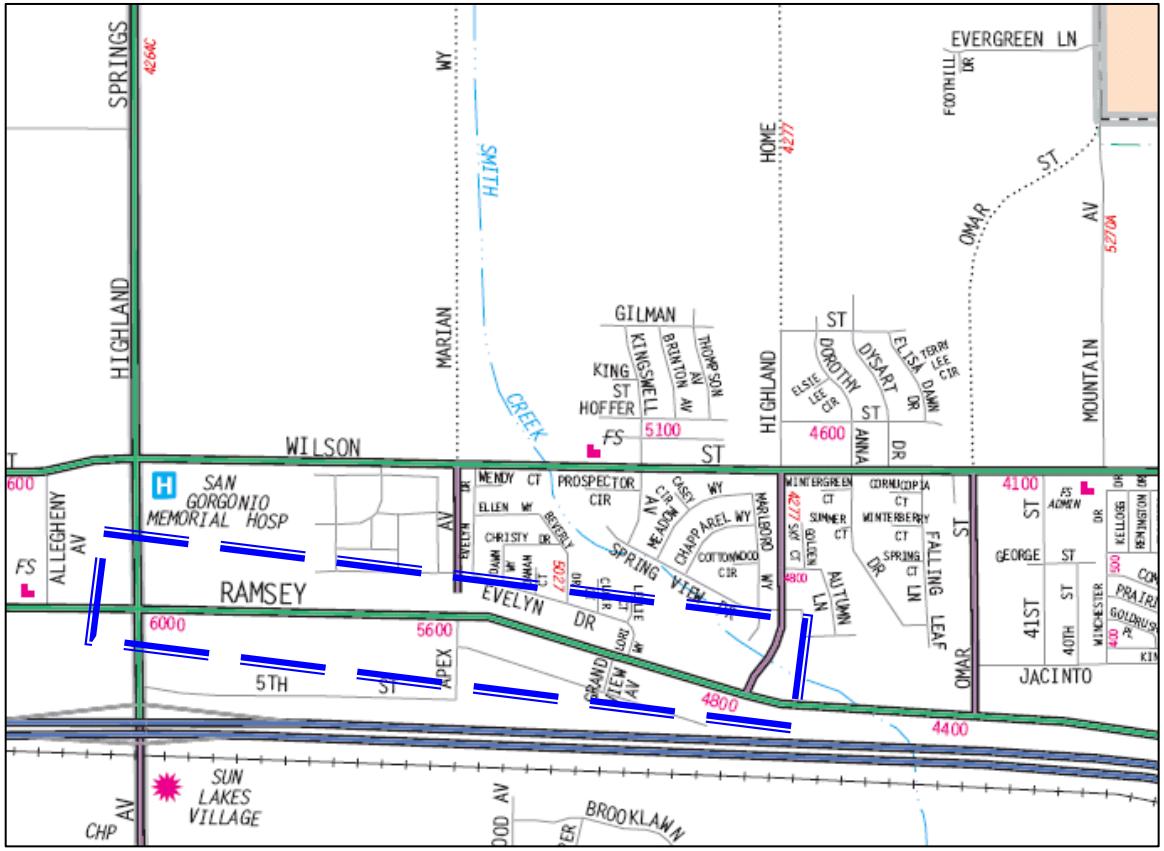
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**50 mph**

(*) - No recent collision records available

ZONE "25"

Radar Enforceable Speed Zone
Zone 25
Ramsey St – From Highland Springs Ave to Highland Home Rd



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From Highland Springs Avenue to Highland Home Road**
DIRECTION: **EB** DATE: 8/22/11
POSTED SPEED LIMITS: **50 MPH** TIME: 13:15 - 14:15
WEATHER: Clear

50th Percentile Speed			48.0
85th Percentile Speed			53.0
Number of Vehicles Observed			100
Average Speed			48
Range of Speeds	34	to	60

10 MPH Pace Speed	44	to	53
Percent in Pace Speed			70
Percent over Pace Speed			15
Percent under Pace Speed			15

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	0	0	0
33	0	0	0
34	1	1	1
35	0	0	1
36	1	1	2
37	1	1	3
38	0	0	3
39	2	2	5
40	1	1	6
41	1	1	7
42	3	3	10
43	5	5	15
44	8	8	23
45	10	10	33
46	5	5	38
47	7	7	45
48	9	9	54
49	8	8	62
50	5	5	67
51	6	6	73
52	5	5	78
53	7	7	85
54	7	7	92
55	2	2	94
56	1	1	95
57	2	2	97
58	1	1	98
59	1	1	99
60	1	1	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
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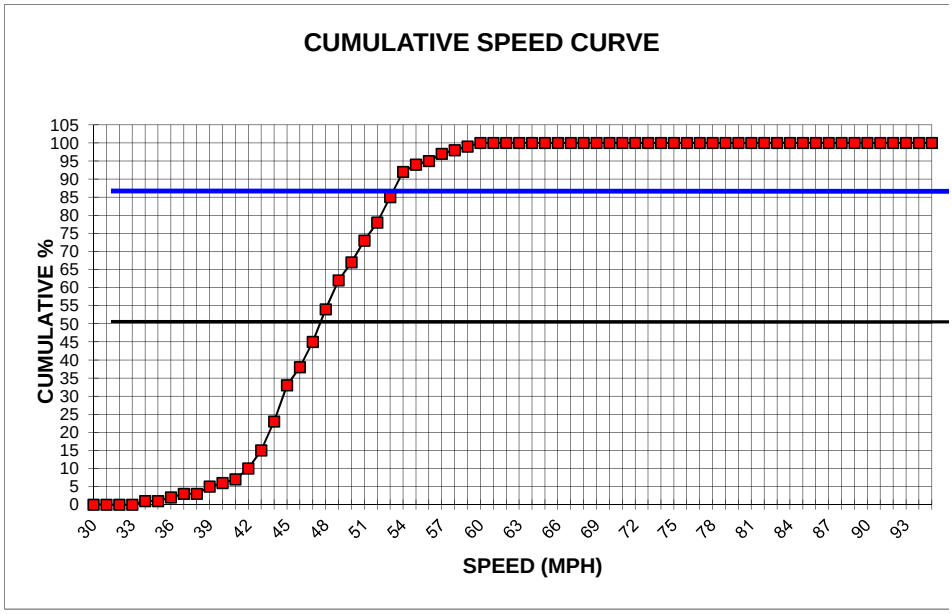
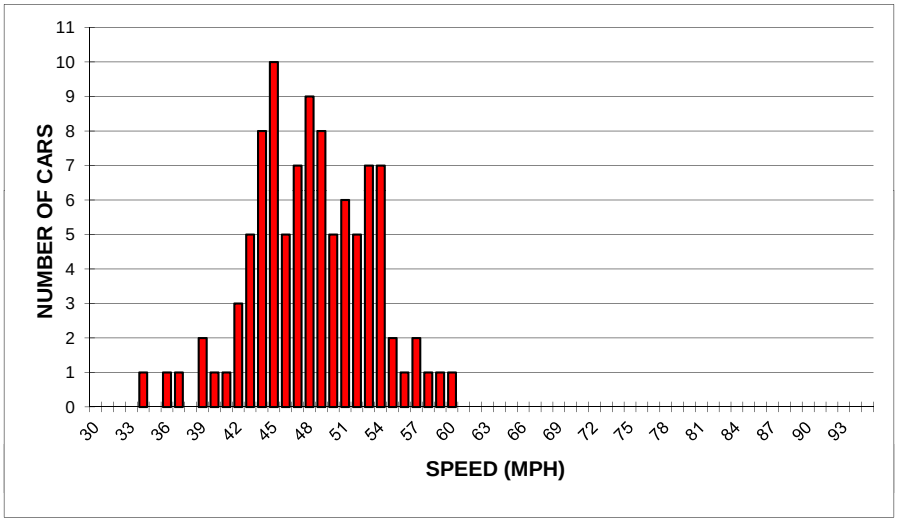
84	0	0	100
85	0	0	100





Loc 25 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Ramsey Street**
Segment: **From Highland Springs Avenue to Highland Home Road**
DIRECTION: **WB** DATE: 8/22/11
POSTED SPEED LIMITS: **50 MPH** TIME: 10:15 - 11:15
WEATHER: Clear

50th Percentile Speed			47.0
85th Percentile Speed			52.0
Number of Vehicles Observed			100
Average Speed			47
Range of Speeds	38	to	58

10 MPH Pace Speed	41	to	50
Percent in Pace Speed			73
Percent over Pace Speed			21
Percent under Pace Speed			6

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
35	0	0	0
36	0	0	0
37	0	0	0
38	1	1	1
39	3	3	4
40	2	2	6
41	4	4	10
42	3	3	13
43	4	4	17
44	7	7	24
45	14	14	38
46	9	9	47
47	9	9	56
48	12	12	68
49	3	3	71
50	8	8	79
51	3	3	82
52	4	4	86
53	4	4	90
54	2	2	92
55	3	3	95
56	3	3	98
57	1	1	99
58	1	1	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
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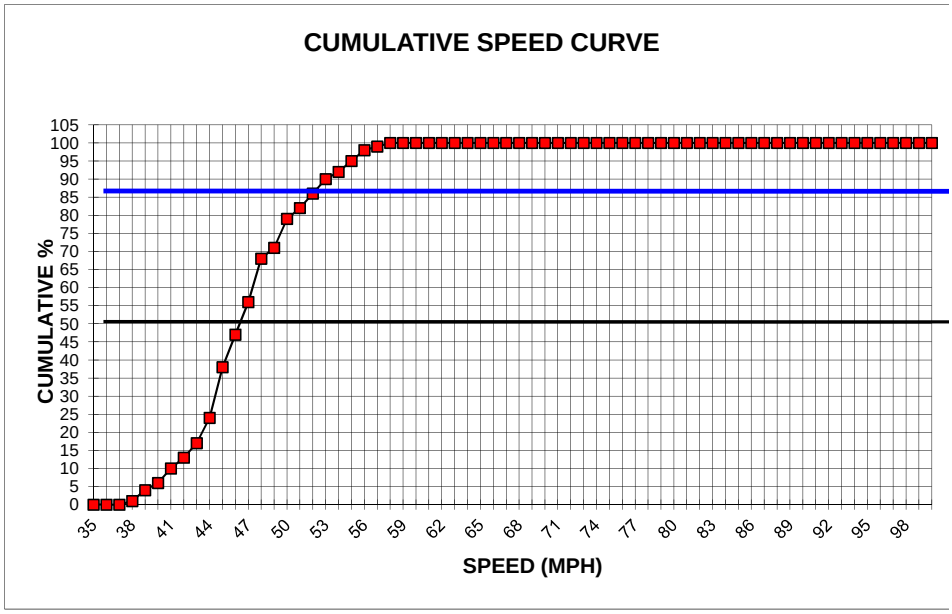
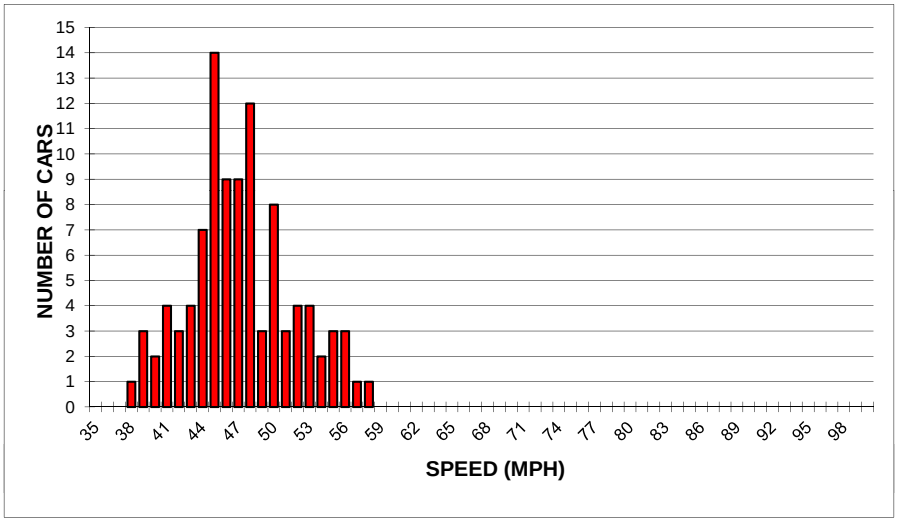
89	0	0	100
90	0	0	100





Loc 25 WB

SPEED ZONE SURVEY SHEET

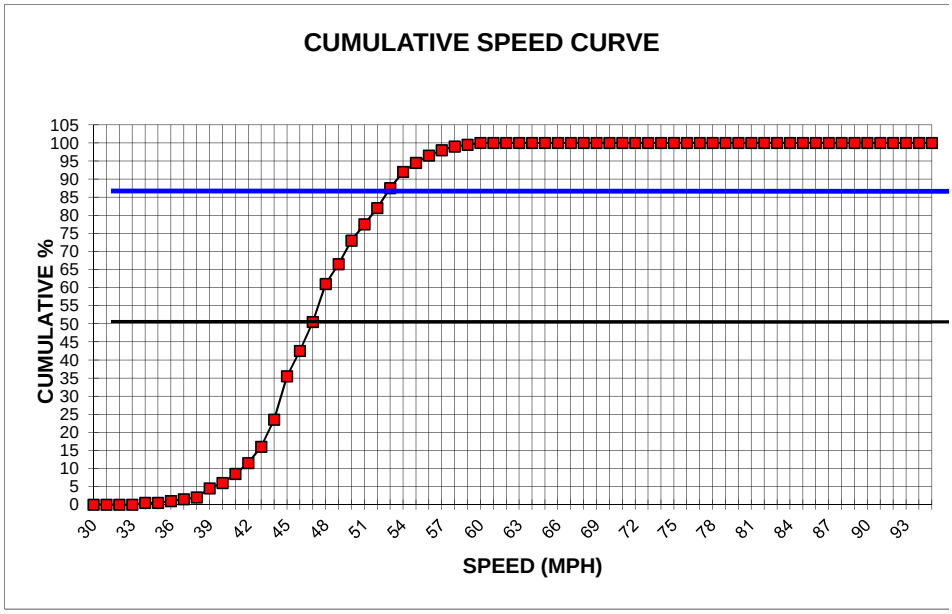
City of Banning
Public Works Department
Kahono Oei, City Engineer

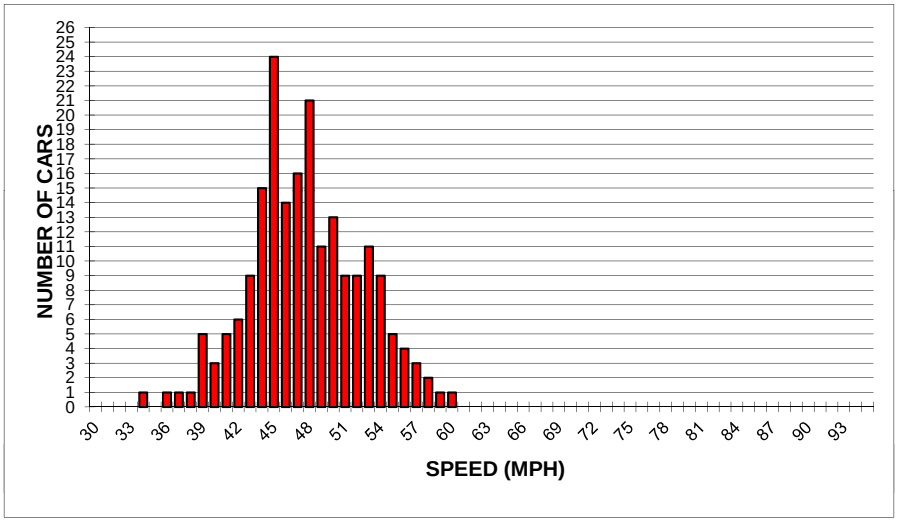
Street **Ramsey Street**
Segment: **From Highland Springs Avenue to Highland Home Road**
DIRECTION: **Both Directions** DATE: 8/22/11
POSTED SPEED LIMITS: **50 MPH** TIME: 10:15 - 14:15
WEATHER: Clear

50th Percentile Speed			47.0
85th Percentile Speed			53.0
Number of Vehicles Observed			200
Average Speed			48
Range of Speeds	34	to	60

10 MPH Pace Speed	44	to	53
Percent in Pace Speed			72
Percent over Pace Speed			13
Percent under Pace Speed			16

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	0	0	0
33	0	0	0
34	1	1	1
35	0	0	1
36	1	1	1
37	1	1	2
38	1	1	2
39	5	3	5
40	3	2	6
41	5	3	9
42	6	3	12
43	9	5	16
44	15	8	24
45	24	12	36
46	14	7	43
47	16	8	51
48	21	11	61
49	11	6	67
50	13	7	73
51	9	5	78
52	9	5	82
53	11	6	88
54	9	5	92
55	5	3	95
56	4	2	97
57	3	2	98
58	2	1	99
59	1	1	100
60	1	1	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 25 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "26"
Ramsey Street - From Highland Home Rd to Sunset Ave

Location: Ramsey Street - From Highland Home Rd to Sunset	Original Limits: Highland Springs Ave to Sunset Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/17/2011	85th %tile Speed: 53 mph
Posted Speed Limit: 50 mph	Average Speed: 48 mph
10 mph Pace Speed: 45 - 54 mph	Percent in Pace Speed: 68%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 34	At Intersections: 32	Mid-block: 2
Collision Rate: 4.78 (MVM)	State Avg. Rate: 2.10 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	1.0 mile long, 86-ft wide with raised median, straight/curved roadway
Traffic:	19,500 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	

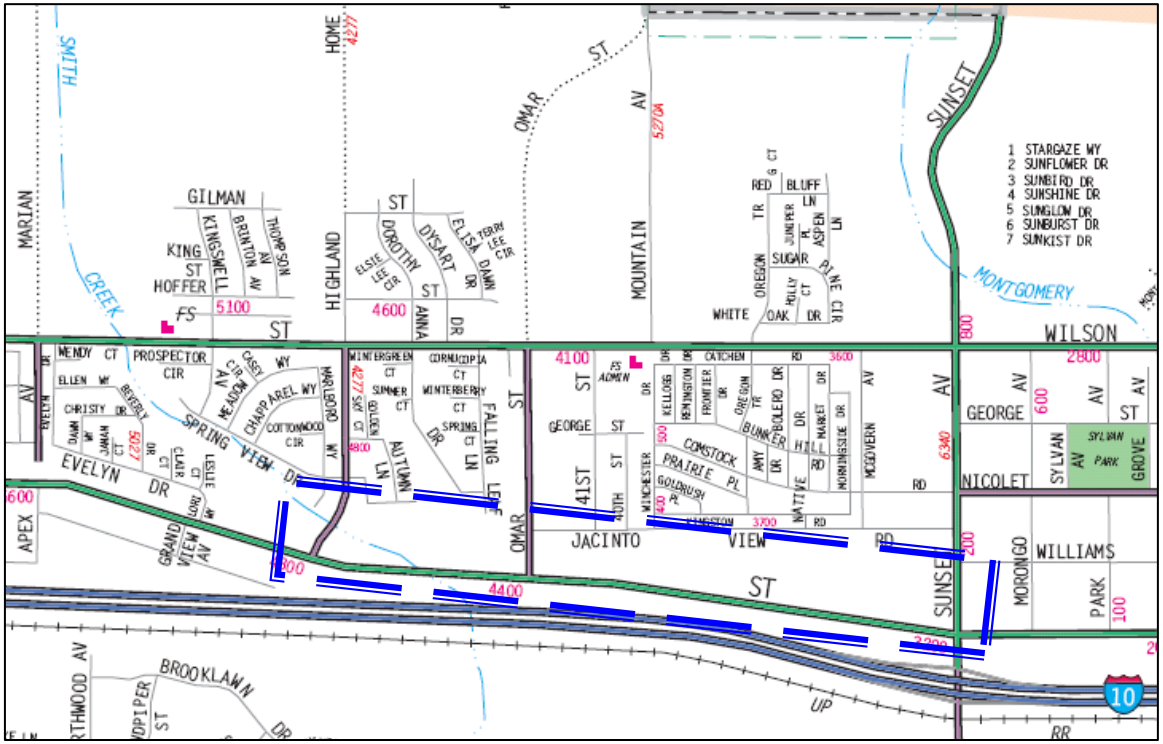
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**50 mph**	
Different elevation for EB & WB directions; speed continuity.		

(*) - No recent collision records available

ZONE "26"

Radar Enforceable Speed Zone
Zone 26
Ramsey St – From Highland Home Rd to Sunset Ave



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From Highland Home Road to Sunset Avenue**
DIRECTION: **EB** DATE: 8/17/11
POSTED SPEED LIMITS: **50 MPH** TIME: 9:00 - 10:00
WEATHER: Clear

50th Percentile Speed	48.0	10 MPH Pace Speed	45 to 54
85th Percentile Speed	53.0	Percent in Pace Speed	73
Number of Vehicles Observed	100	Percent over Pace Speed	8
Average Speed	48	Percent under Pace Speed	19
Range of Speeds	35 to 60		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
35	1	1	1
36	0	0	1
37	0	0	1
38	0	0	1
39	2	2	3
40	3	3	6
41	3	3	9
42	3	3	12
43	3	3	15
44	4	4	19
45	7	7	26
46	8	8	34
47	4	4	38
48	13	13	51
49	4	4	55
50	11	11	66
51	9	9	75
52	5	5	80
53	5	5	85
54	7	7	92
55	4	4	96
56	0	0	96
57	3	3	99
58	0	0	99
59	0	0	99
60	1	1	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
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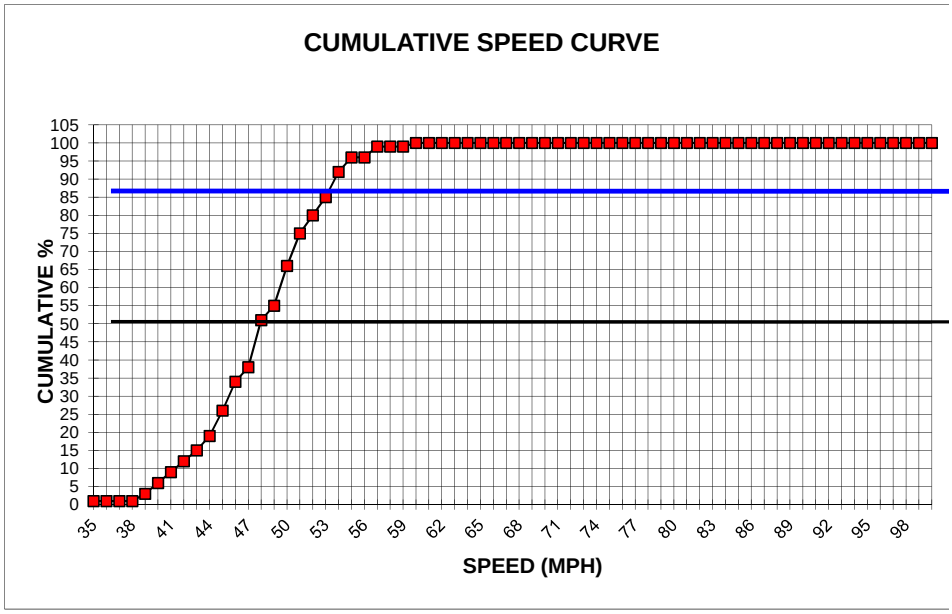
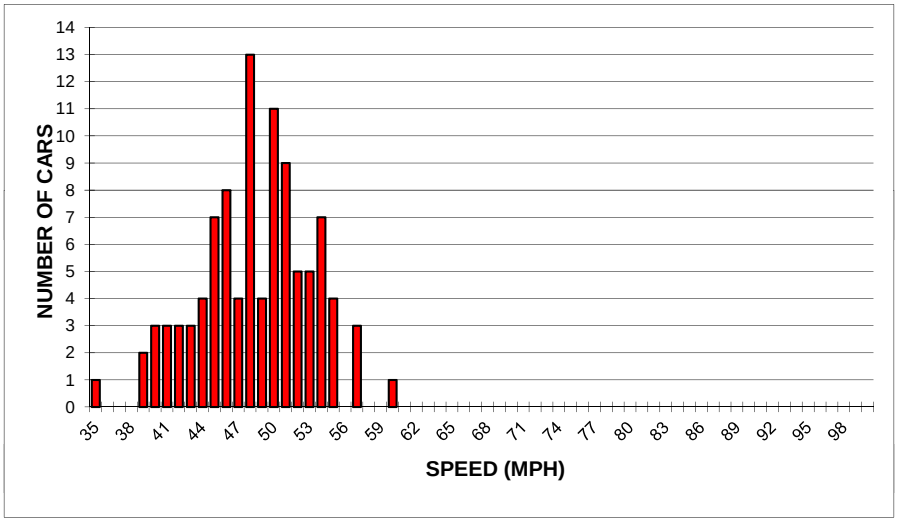
89	0	0	100
90	0	0	100





Loc 26 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Ramsey Street**
Segment: **From Highland Home Road to Sunset Avenue**
DIRECTION: **WB** DATE: 8/17/11
POSTED SPEED LIMITS: **50 MPH** TIME: 10:30 - 11:30
WEATHER: Clear

50th Percentile Speed	48.0		
85th Percentile Speed	53.0		
Number of Vehicles Observed	100		
Average Speed	48		
Range of Speeds	36	to	60

10 MPH Pace Speed	43	to	52
Percent in Pace Speed	65		
Percent over Pace Speed	19		
Percent under Pace Speed	16		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
35	0	0	0
36	2	2	2
37	1	1	3
38	2	2	5
39	1	1	6
40	1	1	7
41	2	2	9
42	7	7	16
43	6	6	22
44	5	5	27
45	5	5	32
46	8	8	40
47	6	6	46
48	6	6	52
49	5	5	57
50	6	6	63
51	10	10	73
52	8	8	81
53	4	4	85
54	4	4	89
55	1	1	90
56	5	5	95
57	1	1	96
58	1	1	97
59	0	0	97
60	3	3	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
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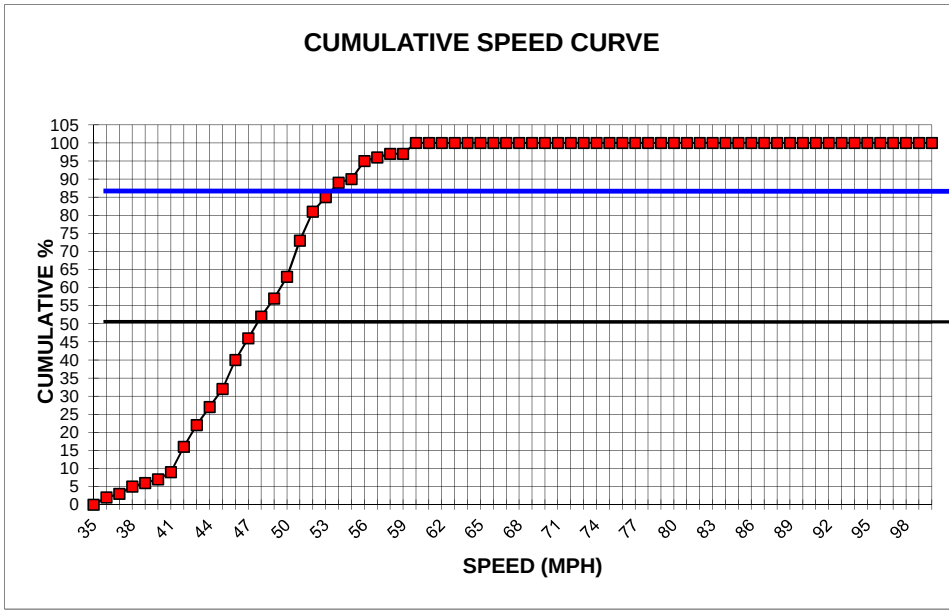
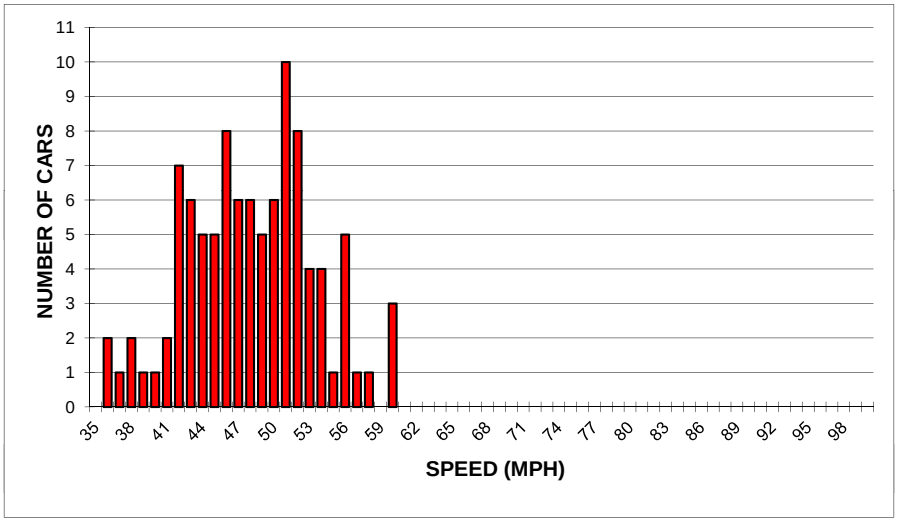
86	0	0	100
87	0	0	100
88	0	0	100
89	0	0	100
90	0	0	100





Loc 26 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From Highland Home Road to Sunset Avenue**
DIRECTION: **Both Directions** DATE: 8/17/11
POSTED SPEED LIMITS: **50 MPH** TIME: 9:00 - 11:30
WEATHER: Clear

50th Percentile Speed	48.0	10 MPH Pace Speed	45 to 54
85th Percentile Speed	53.0	Percent in Pace Speed	68
Number of Vehicles Observed	200	Percent over Pace Speed	10
Average Speed	48	Percent under Pace Speed	23
Range of Speeds	35 to 60		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
35	1	1	1
36	2	1	2
37	1	1	2
38	2	1	3
39	3	2	5
40	4	2	7
41	5	3	9
42	10	5	14
43	9	5	19
44	9	5	23
45	12	6	29
46	16	8	37
47	10	5	42
48	19	10	52
49	9	5	56
50	17	9	65
51	19	10	74
52	13	7	81
53	9	5	85
54	11	6	91
55	5	3	93
56	5	3	96
57	4	2	98
58	1	1	98
59	0	0	98
60	4	2	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
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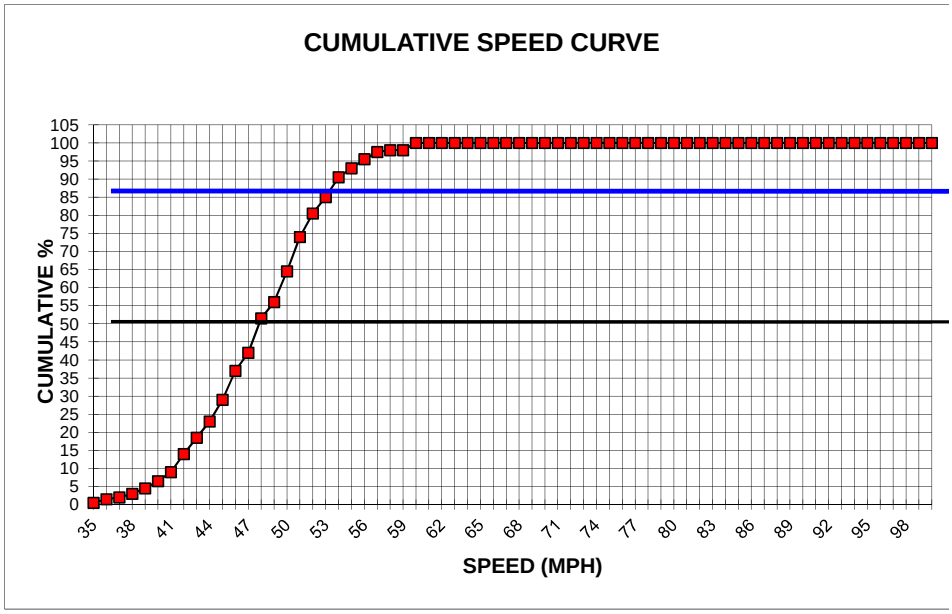
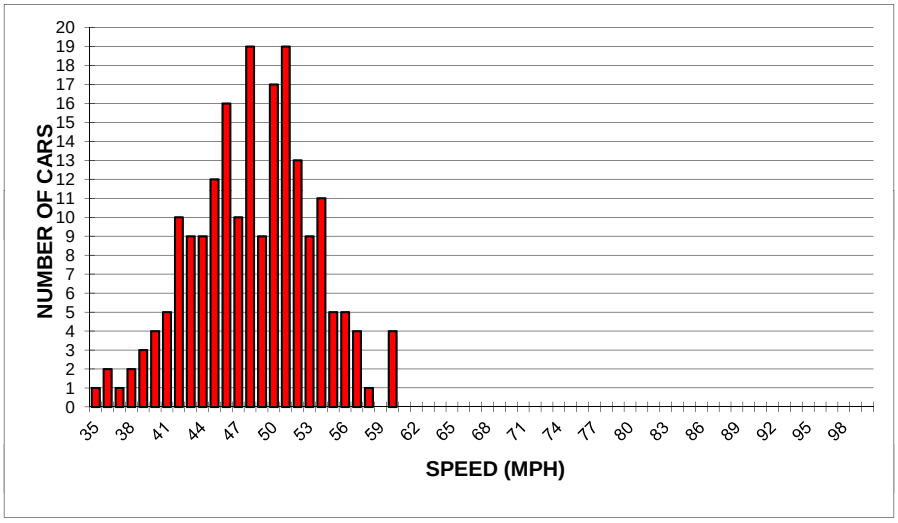
89	0	0	100
90	0	0	100





Loc 26 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "27"
Ramsey Street- From Sunset Ave to 22nd St

Location: Ramsey Street - From Sunset Ave to 22nd St	Original Limits: From Sunset Ave to 8th St

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/4/2011	85th %tile Speed: 41 mph
Posted Speed Limit: 35 mph	Average Speed: 37 mph
10 mph Pace Speed: 32 - 41 mph	Percent in Pace Speed: 81%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 16	At Intersections: 7	Mid-block 9
Collision Rate: 5.71 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.6 mile long, 44-ft wide, straight roadway
Traffic:	12,800 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	

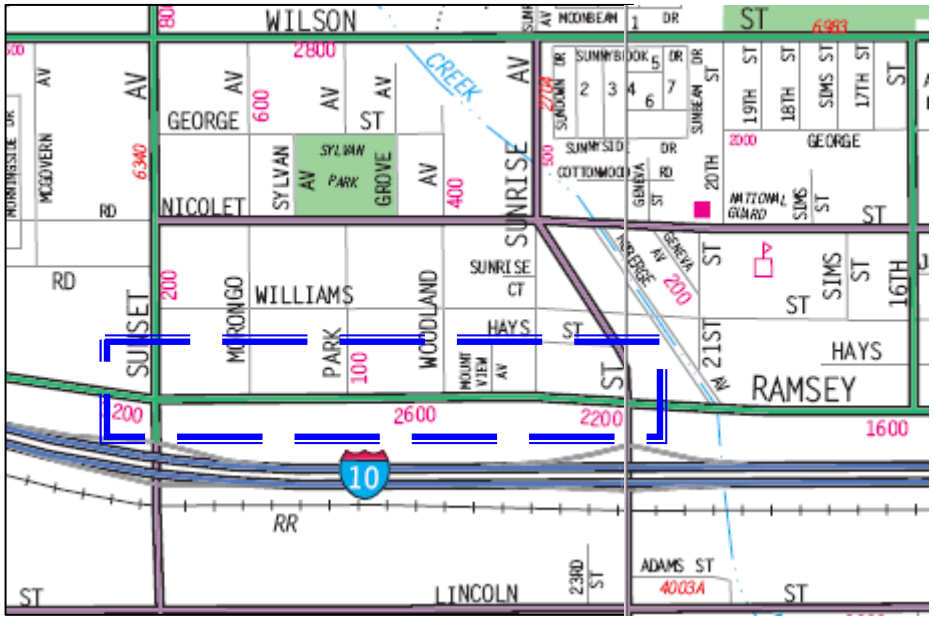
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**40 mph**
Commercial density meets CVC §235	

(*) - No recent collision records available

ZONE "27"

Radar Enforceable Speed Zone
Zone 27
Ramsey Street – From Sunset St to 22nd St



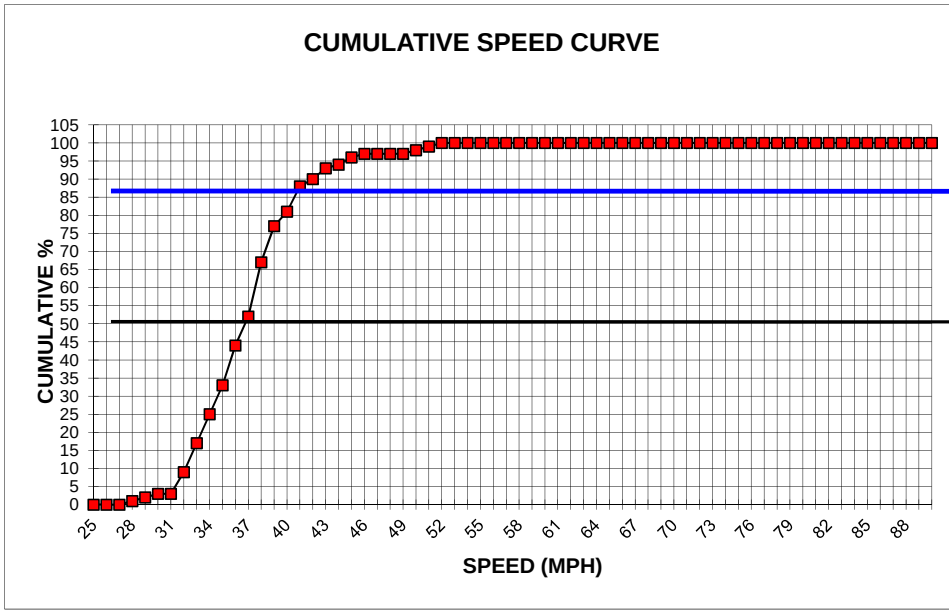
SPEED ZONE SURVEY SHEET

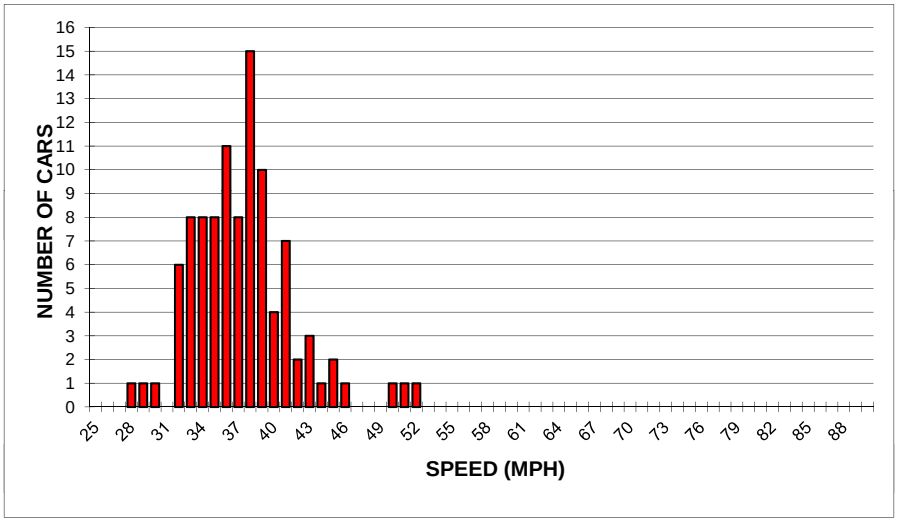
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **EB** DATE: 8/4/11
POSTED SPEED LIMITS: **35 MPH** TIME: 15:30 - 16:30
WEATHER: Clear

50th Percentile Speed	37.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	41.0	Percent in Pace Speed	85
Number of Vehicles Observed	100	Percent over Pace Speed	12
Average Speed	37	Percent under Pace Speed	3
Range of Speeds	28 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	1	1	2
30	1	1	3
31	0	0	3
32	6	6	9
33	8	8	17
34	8	8	25
35	8	8	33
36	11	11	44
37	8	8	52
38	15	15	67
39	10	10	77
40	4	4	81
41	7	7	88
42	2	2	90
43	3	3	93
44	1	1	94
45	2	2	96
46	1	1	97
47	0	0	97
48	0	0	97
49	0	0	97
50	1	1	98
51	1	1	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 27 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Ramsey Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **WB** DATE: 8/4/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			41.0
Number of Vehicles Observed			100
Average Speed			36
Range of Speeds	26	to	50

10 MPH Pace Speed	32	to	41
Percent in Pace Speed			77
Percent over Pace Speed			11
Percent under Pace Speed			12

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	2	2	3
28	1	1	4
29	1	1	5
30	3	3	8
31	4	4	12
32	8	8	20
33	4	4	24
34	11	11	35
35	12	12	47
36	10	10	57
37	6	6	63
38	5	5	68
39	7	7	75
40	7	7	82
41	7	7	89
42	3	3	92
43	2	2	94
44	2	2	96
45	2	2	98
46	1	1	99
47	0	0	99
48	0	0	99
49	0	0	99
50	1	1	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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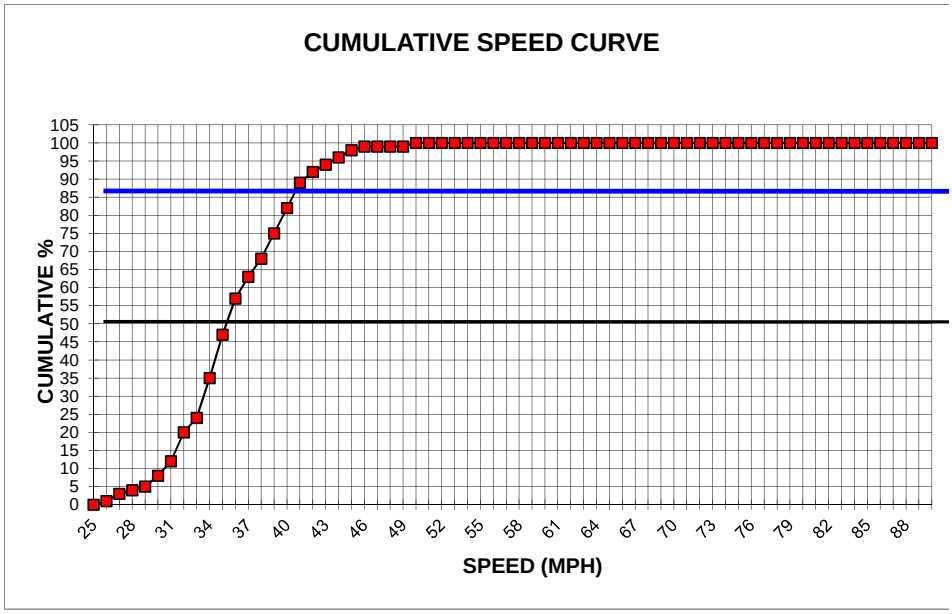
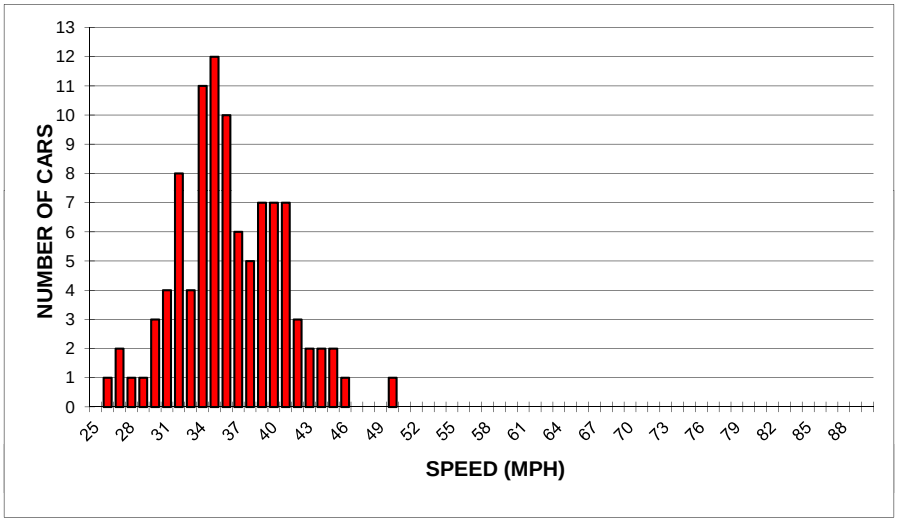
80	0	0	100





Loc 27 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **Both Directions** DATE: 8/4/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 16:30
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			41.0
Number of Vehicles Observed			200
Average Speed			37
Range of Speeds	26	to	52

10 MPH Pace Speed	32	to	41
Percent in Pace Speed			81
Percent over Pace Speed			12
Percent under Pace Speed			8

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	2	1	2
28	2	1	3
29	2	1	4
30	4	2	6
31	4	2	8
32	14	7	15
33	12	6	21
34	19	10	30
35	20	10	40
36	21	11	51
37	14	7	58
38	20	10	68
39	17	9	76
40	11	6	82
41	14	7	89
42	5	3	91
43	5	3	94
44	3	2	95
45	4	2	97
46	2	1	98
47	0	0	98
48	0	0	98
49	0	0	98
50	2	1	99
51	1	1	100
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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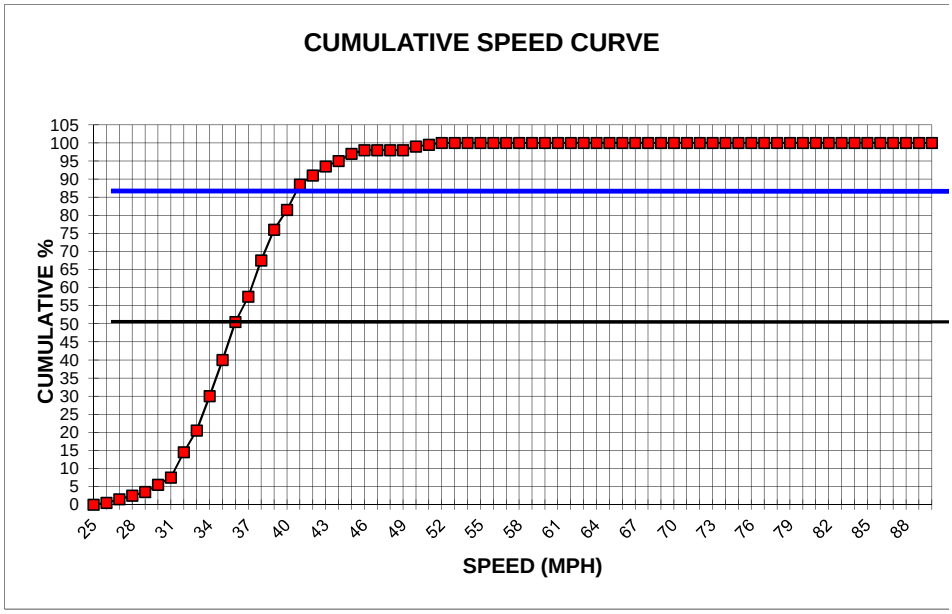
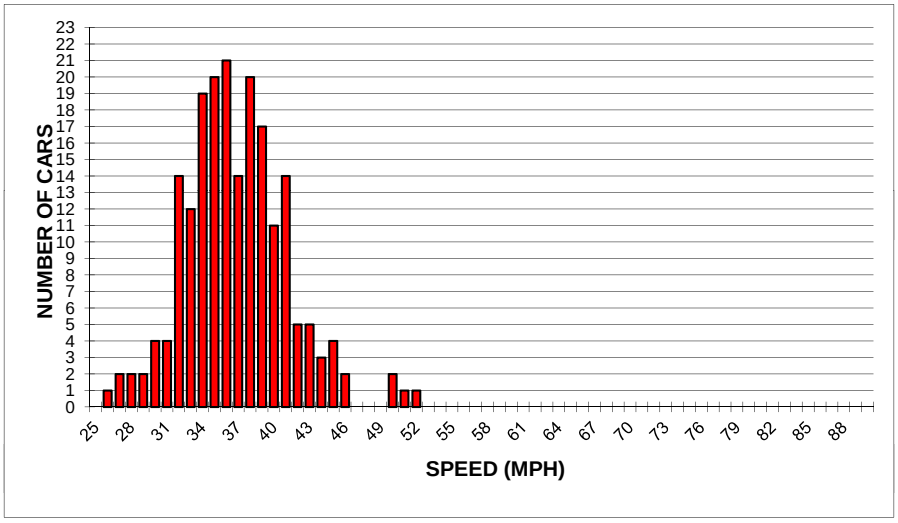
79	0	0	100
80	0	0	100





Loc 27 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "28"
Ramsey Street - From 22nd St to 8th St

Location: Ramsey Street - From 22nd St to 8th St	Original Limits: From Sunset Ave to 8th St

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/19/2011	85th %tile Speed: 40 mph
Posted Speed Limit: 35 mph	Average Speed: 36 mph
10 mph Pace Speed: 31 - 40 mph	Percent in Pace Speed: 78%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 45	At Intersections: 12	Mid-block: 33
Collision Rate: 27.40 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.9 mile long, 44-ft wide, straight roadway
Traffic:	5,000 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	

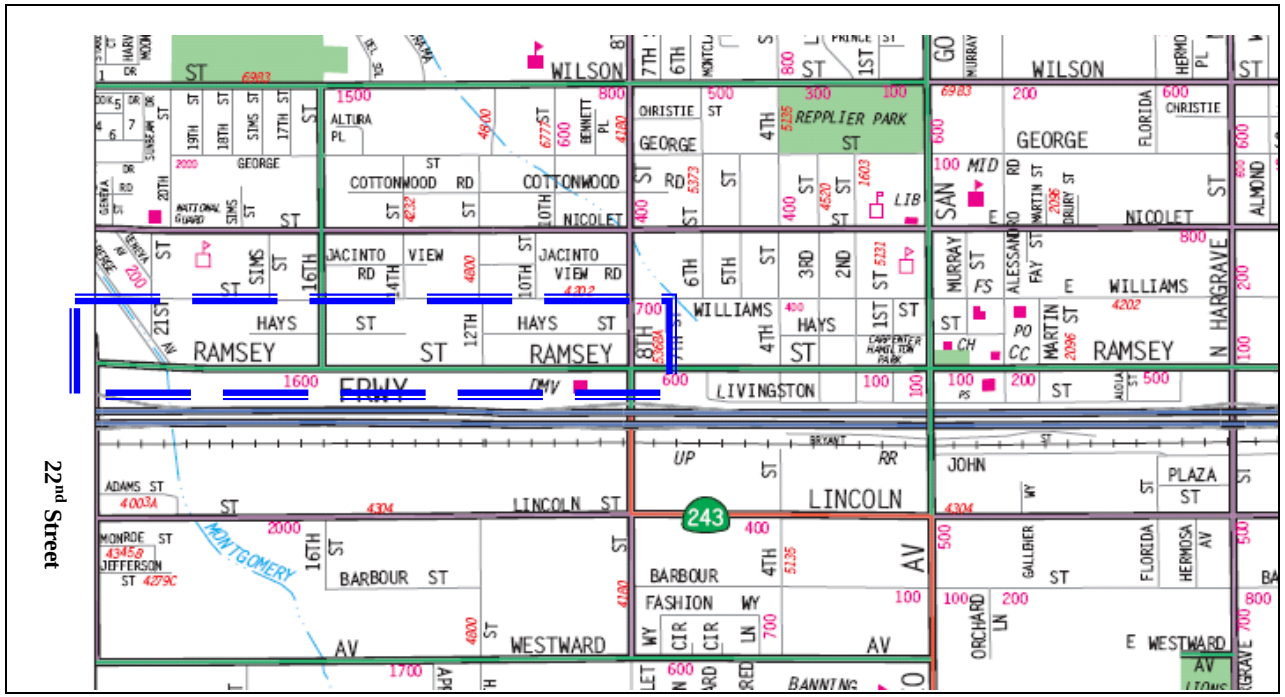
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**40 mph**
Commercial density meets CVC §235	

(*) - No recent collision records available

ZONE "28"

Radar Enforceable Speed Zone
Zone 28
Ramsey Street – From 22nd St to 8th St



Zone 28

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From 22nd Street to 8th Street**
DIRECTION: **EB** DATE: 8/19/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:15 - 11:30
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			41.0
Number of Vehicles Observed			100
Average Speed			37
Range of Speeds	28	to	50

10 MPH Pace Speed	31	to	40
Percent in Pace Speed			77
Percent over Pace Speed			17
Percent under Pace Speed			6

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	1	1	1
29	3	3	4
30	2	2	6
31	3	3	9
32	9	9	18
33	4	4	22
34	8	8	30
35	11	11	41
36	14	14	55
37	8	8	63
38	9	9	72
39	4	4	76
40	7	7	83
41	3	3	86
42	2	2	88
43	4	4	92
44	2	2	94
45	4	4	98
46	0	0	98
47	1	1	99
48	0	0	99
49	0	0	99
50	1	1	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
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66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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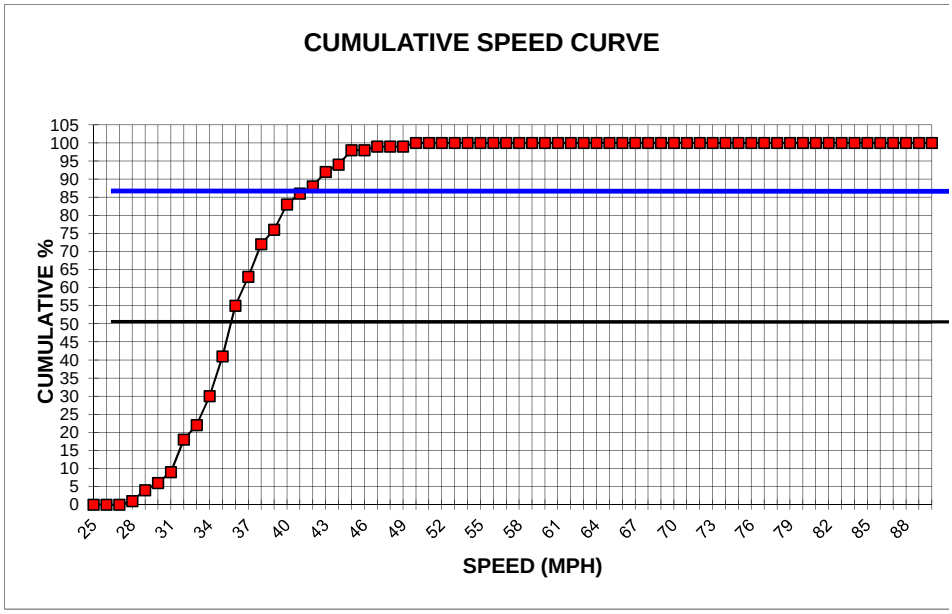
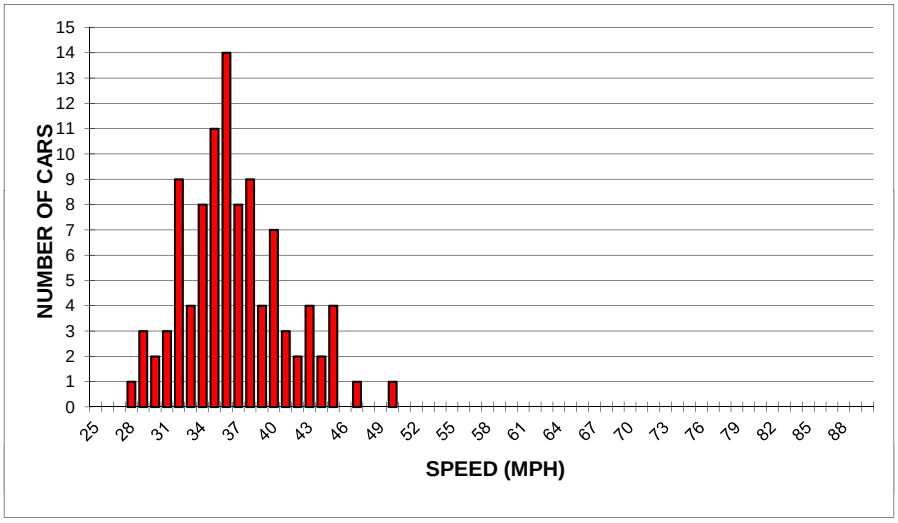
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 28 EB

SPEED ZONE SURVEY SHEET

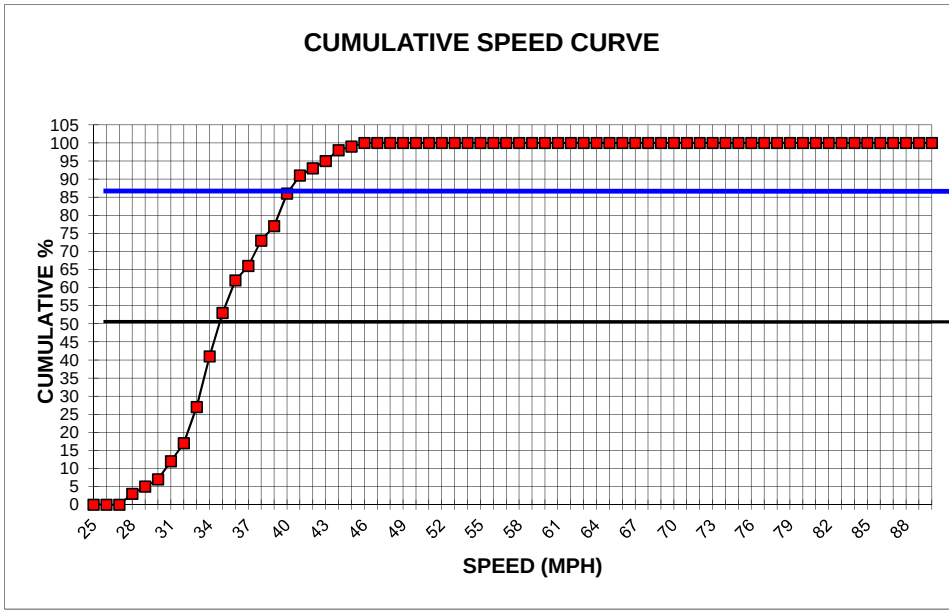
City of Banning
Public Works Department
Kahono Oei, City Engineer

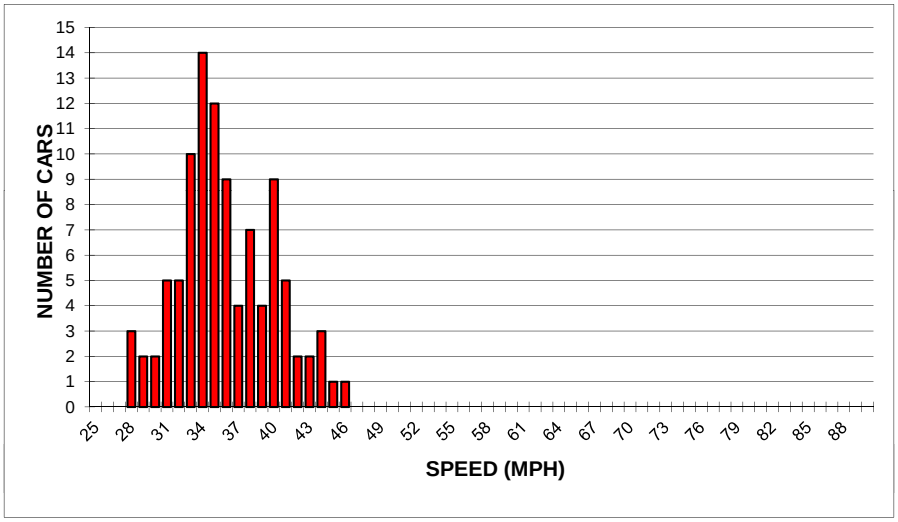
Roadway: **Ramsey Street**
Segment: **From 22nd Street to 8th Street**
DIRECTION: **WB** DATE: 8/19/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed			35.0
85th Percentile Speed			40.0
Number of Vehicles Observed			100
Average Speed			36
Range of Speeds	28	to	46

10 MPH Pace Speed	31	to	40
Percent in Pace Speed			79
Percent over Pace Speed			14
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	3	3	3
29	2	2	5
30	2	2	7
31	5	5	12
32	5	5	17
33	10	10	27
34	14	14	41
35	12	12	53
36	9	9	62
37	4	4	66
38	7	7	73
39	4	4	77
40	9	9	86
41	5	5	91
42	2	2	93
43	2	2	95
44	3	3	98
45	1	1	99
46	1	1	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 28 WB

SPEED ZONE SURVEY SHEET

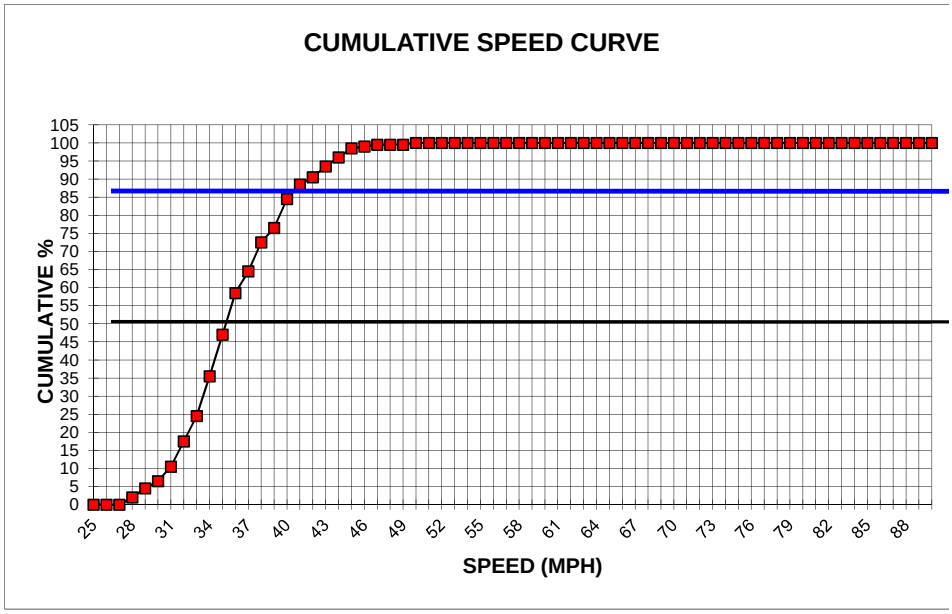
City of Banning
Public Works Department
Kahono Oei, City Engineer

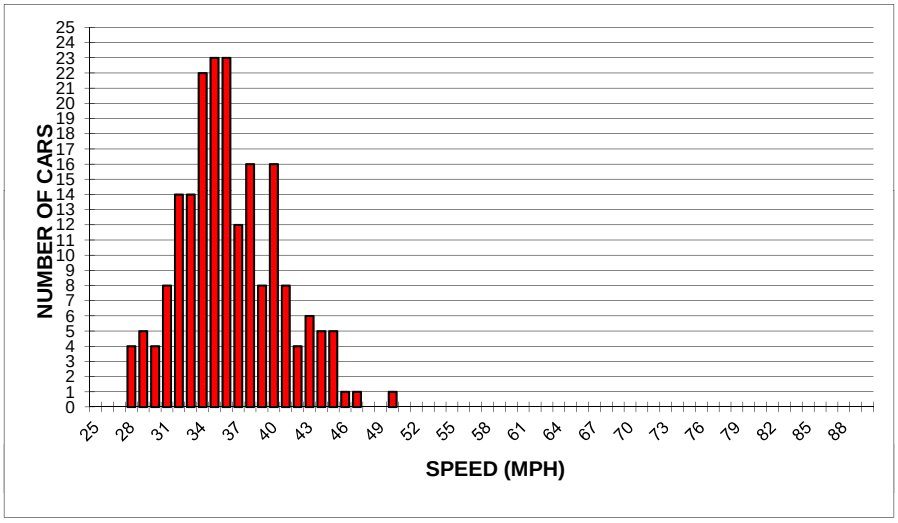
Street **Ramsey Street**
Segment: **From 22nd Street to 8th Street**
DIRECTION: **Both Directions** DATE: 8/19/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:15 - 11:30
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			40.0
Number of Vehicles Observed			200
Average Speed			36
Range of Speeds	28	to	50

10 MPH Pace Speed	31	to	40
Percent in Pace Speed			78
Percent over Pace Speed			16
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	4	2	2
29	5	3	5
30	4	2	7
31	8	4	11
32	14	7	18
33	14	7	25
34	22	11	36
35	23	12	47
36	23	12	59
37	12	6	65
38	16	8	73
39	8	4	77
40	16	8	85
41	8	4	89
42	4	2	91
43	6	3	94
44	5	3	96
45	5	3	99
46	1	1	99
47	1	1	100
48	0	0	100
49	0	0	100
50	1	1	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 28 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "29"
Ramsey Street - From 8th St to Hargrave St

Location: Ramsey Street - From 8th St to Hargrave St	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/19/2011	85th %tile Speed: 33 mph
Posted Speed Limit: 25 mph	Average Speed: 30 mph
10 mph Pace Speed: 26 - 35 mph	Percent in Pace Speed: 89%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 12	At Intersections: 3	Mid-block: 9
Collision Rate: 2.44 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	1.0 mile long, 64-ft wide, straight roadway
Traffic:	13,500 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	CBD Prima Facia 25 mph

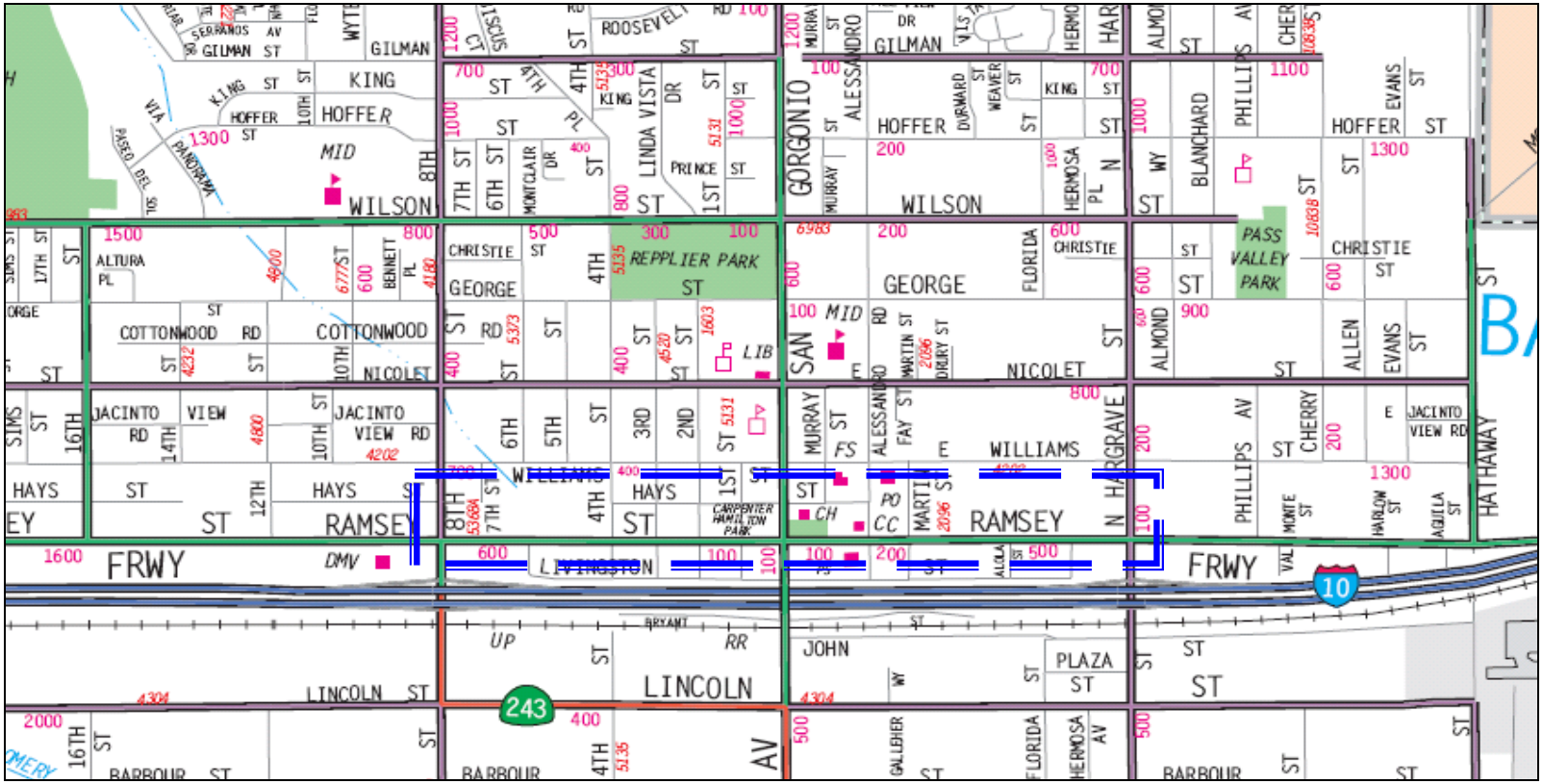
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph**
Central Business District	

(*) - No recent collision records available

ZONE "29"

Radar Enforceable Speed Zone
Zone 29
Ramsey St – From 8th St to Hargrave St



Zone 29

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From 8th Street to Hargrave Street**
DIRECTION: **EB** DATE: 8/19/11
POSTED SPEED LIMITS: **25 MPH** TIME: 14:30 - 15:30
WEATHER: Clear

50th Percentile Speed			30.0
85th Percentile Speed			33.0
Number of Vehicles Observed			100
Average Speed			30
Range of Speeds	22	to	43

10 MPH Pace Speed	27	to	36
Percent in Pace Speed			89
Percent over Pace Speed			2
Percent under Pace Speed			9

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	2	2	2
23	0	0	2
24	4	4	6
25	2	2	8
26	1	1	9
27	6	6	15
28	15	15	30
29	12	12	42
30	17	17	59
31	12	12	71
32	10	10	81
33	6	6	87
34	3	3	90
35	6	6	96
36	2	2	98
37	0	0	98
38	1	1	99
39	0	0	99
40	0	0	99
41	0	0	99
42	0	0	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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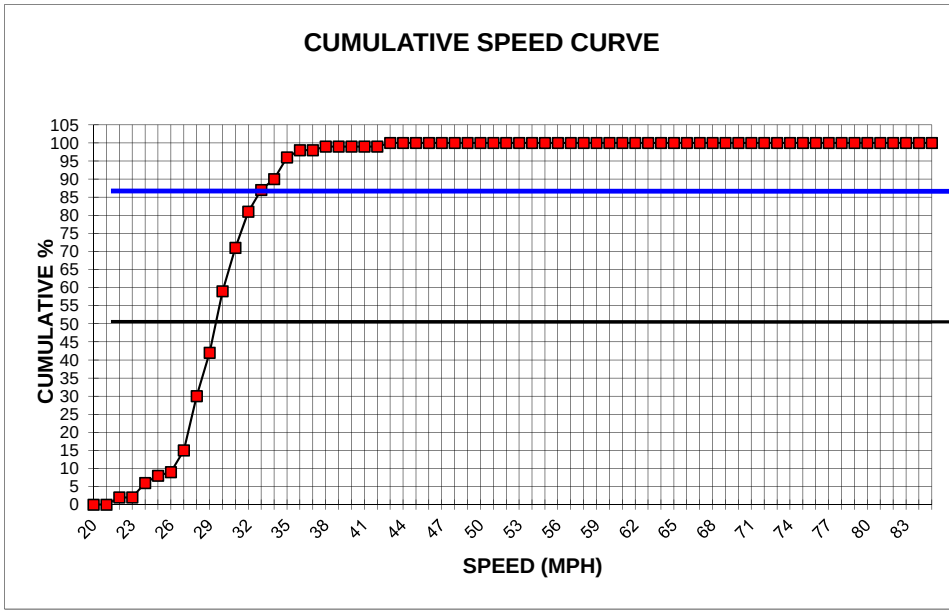
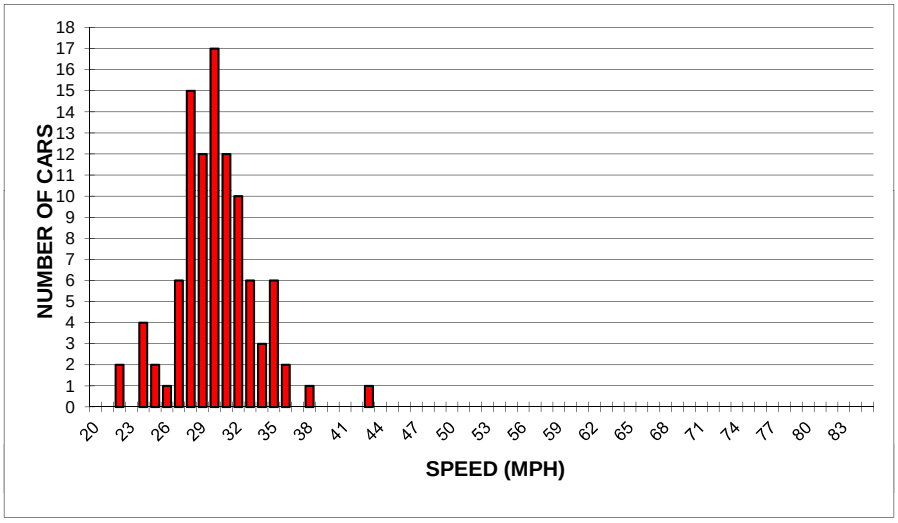
74	0	0	100
75	0	0	100





Loc 29 EB

SPEED ZONE SURVEY SHEET

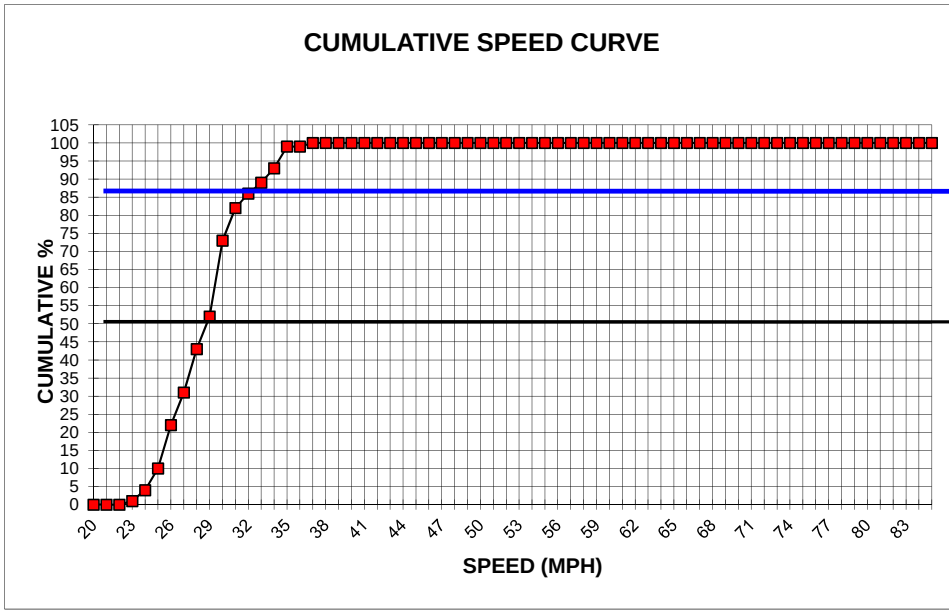
City of Banning
Public Works Department
Kahono Oei, City Engineer

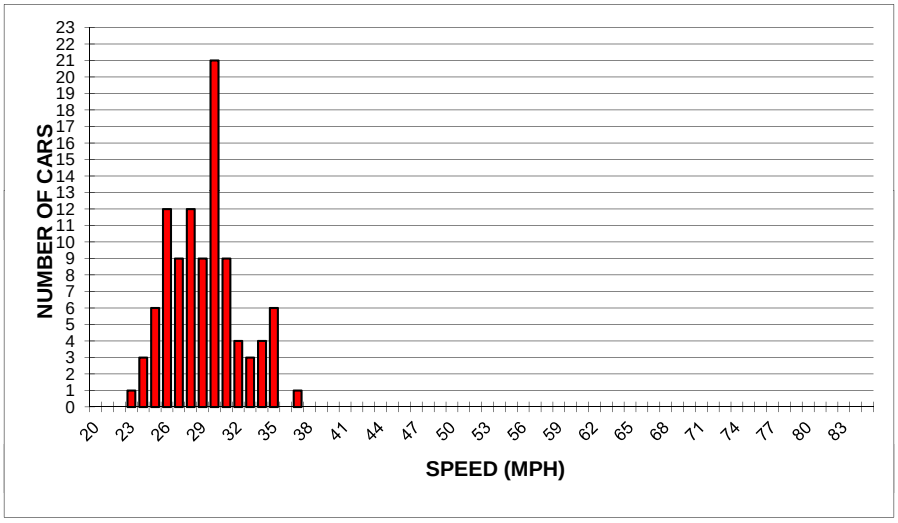
Roadway: **Ramsey Street**
Segment: **From 8th Street to Hargrave Street**
DIRECTION: **WB** DATE: 8/19/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed			29.0
85th Percentile Speed			32.0
Number of Vehicles Observed			100
Average Speed			29
Range of Speeds	23	to	37

10 MPH Pace Speed	25	to	34
Percent in Pace Speed			89
Percent over Pace Speed			7
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	1	1	1
24	3	3	4
25	6	6	10
26	12	12	22
27	9	9	31
28	12	12	43
29	9	9	52
30	21	21	73
31	9	9	82
32	4	4	86
33	3	3	89
34	4	4	93
35	6	6	99
36	0	0	99
37	1	1	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 29 WB

SPEED ZONE SURVEY SHEET

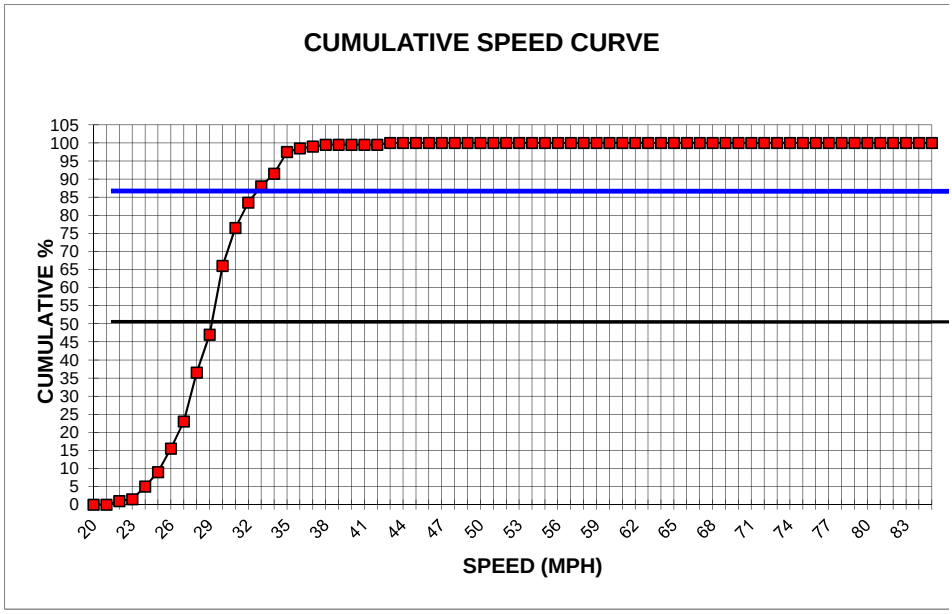
City of Banning
Public Works Department
Kahono Oei, City Engineer

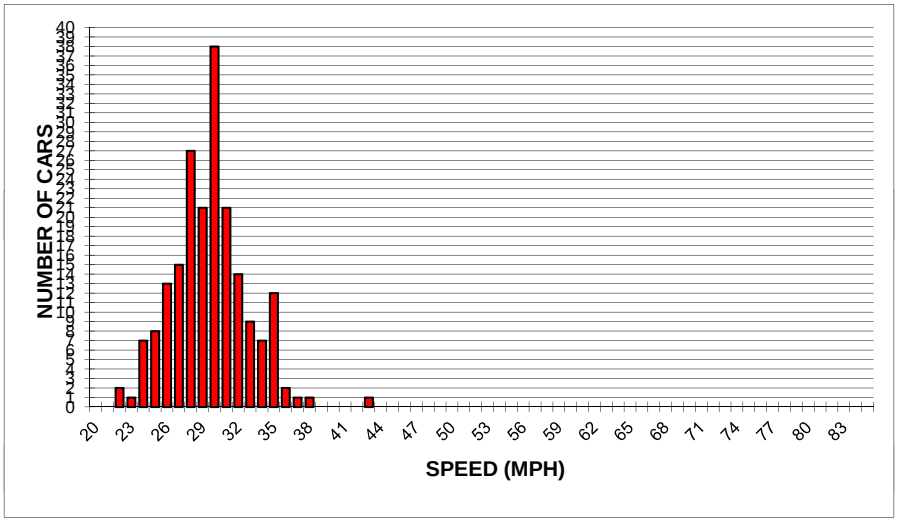
Street **Ramsey Street**
Segment: **From 8th Street to Hargrave Street**
DIRECTION: **Both Directions** DATE: 8/19/11
POSTED SPEED LIMITS: **25 MPH** TIME: 14:30 - 15:30
WEATHER: Clear

50th Percentile Speed			30.0
85th Percentile Speed			33.0
Number of Vehicles Observed			200
Average Speed			30
Range of Speeds	22	to	43

10 MPH Pace Speed	26	to	35
Percent in Pace Speed			89
Percent over Pace Speed			3
Percent under Pace Speed			9

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	2	1	1
23	1	1	2
24	7	4	5
25	8	4	9
26	13	7	16
27	15	8	23
28	27	14	37
29	21	11	47
30	38	19	66
31	21	11	77
32	14	7	84
33	9	5	88
34	7	4	92
35	12	6	98
36	2	1	99
37	1	1	99
38	1	1	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 29 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "30"
Ramsey Street - From Hargrave St to I-10

Location: Ramsey Street - From Hargrave St to I-10	Original Limits: (If Changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/18/2011	85th %tile Speed: 41 mph
Posted Speed Limit: 40 mph	Average Speed: 37 mph
10 mph Pace Speed: 32 - 41 mph	Percent in Pace Speed: 77%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 3	At Intersections: 3	Mid-block: 0
Collision Rate: 0.81 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.75 mile long, 44-ft wide, straight roadway
Traffic:	13,500 ADT
Roadside:	Urban commercial, commercial density meets CVC §235
Not Readily Apparent to Driver:	

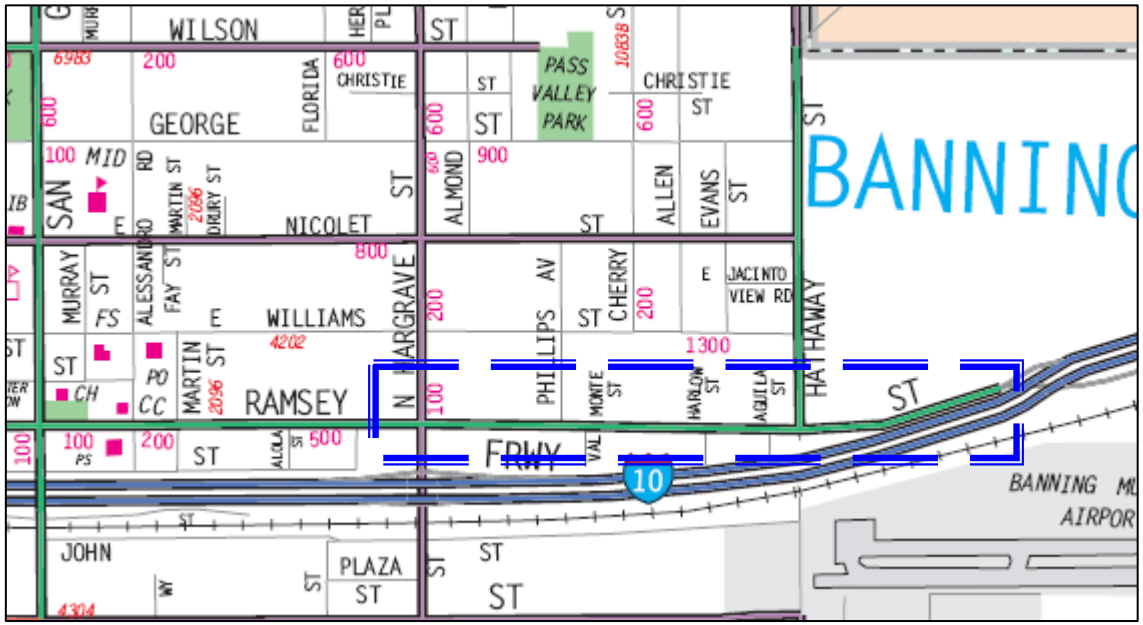
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**40 mph**
Commercial density meets CVC §235	

(*) - No recent collision records available

ZONE "30

Radar Enforceable Speed Zone
Zone 30
Ramsey St – From Hargrave St To I-10



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Ramsey Street**
Segment: **From Hargrave Street to I-10 Ramps**
DIRECTION: **EB** DATE: 8/18/11
POSTED SPEED LIMITS: **40 MPH** TIME: 9:00 - 10:00
WEATHER: Clear

50th Percentile Speed	36.0	10 MPH Pace Speed	32 to 41
85th Percentile Speed	40.0	Percent in Pace Speed	87
Number of Vehicles Observed	75	Percent over Pace Speed	9
Average Speed	37	Percent under Pace Speed	4
Range of Speeds	29 to 48		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	1	1	1
30	1	1	3
31	1	1	4
32	3	4	8
33	7	9	17
34	4	5	23
35	14	19	41
36	9	12	53
37	5	7	60
38	10	13	73
39	5	7	80
40	5	7	87
41	3	4	91
42	3	4	95
43	1	1	96
44	1	1	97
45	1	1	99
46	0	0	99
47	0	0	99
48	1	1	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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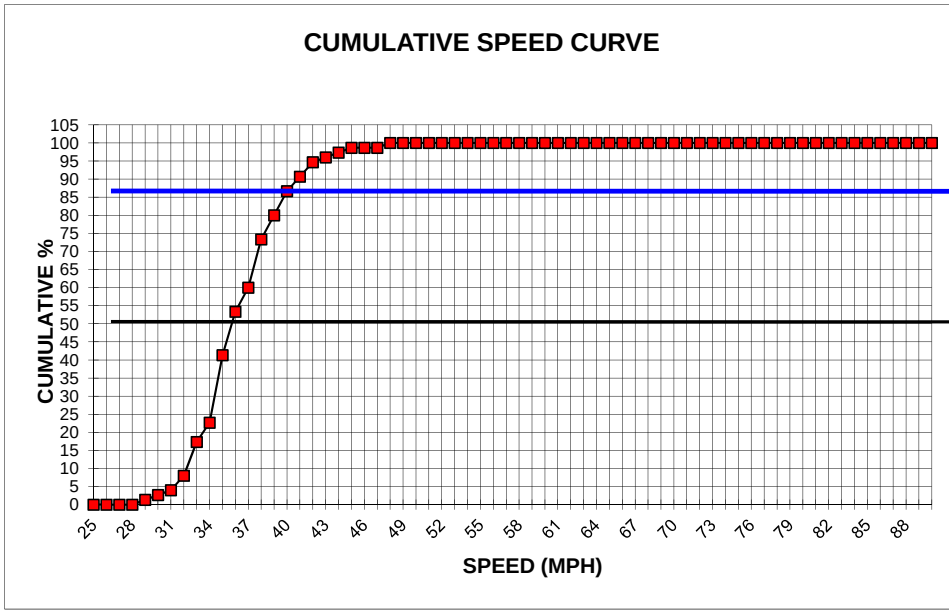
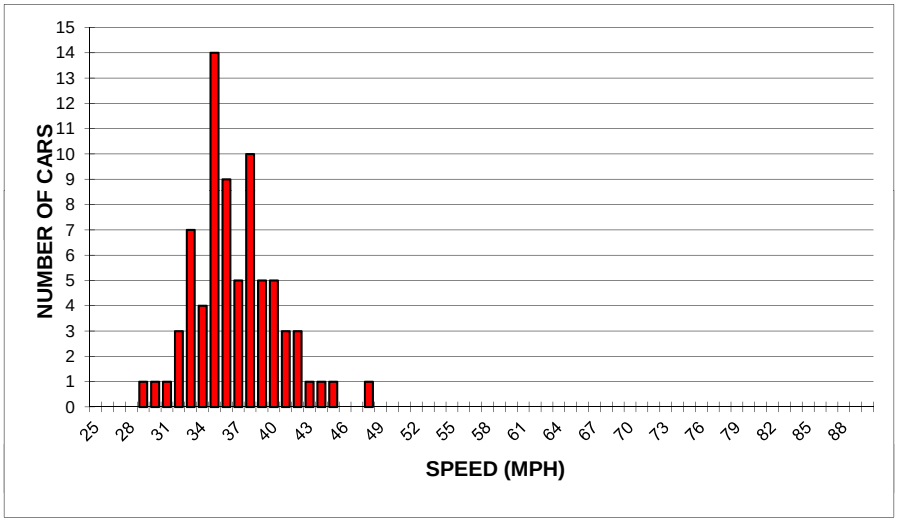
79	0	0	100
80	0	0	100





Loc 30 EB

SPEED ZONE SURVEY SHEET

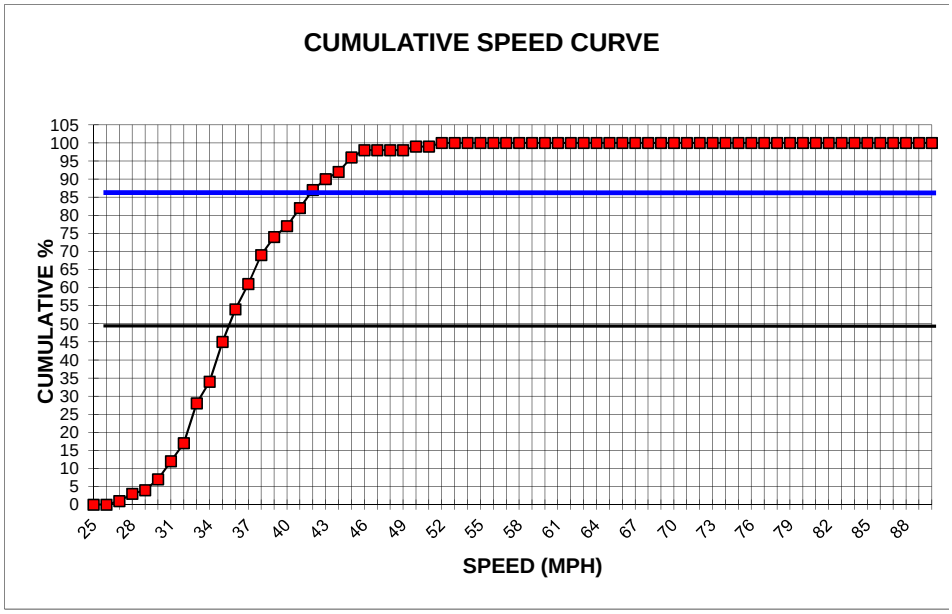
City of Banning
Public Works Department
Kahono Oei, City Engineer

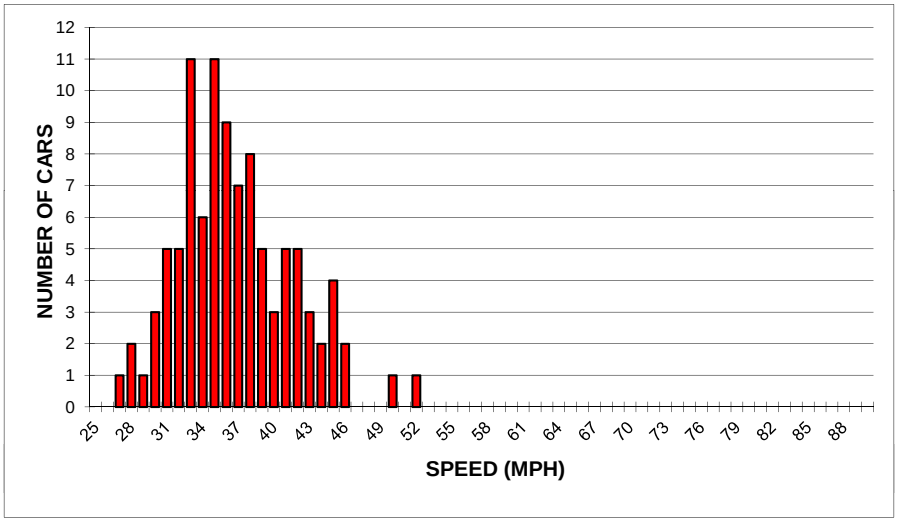
Roadway: **Ramsey Street**
Segment: **From Hargrave Street to I-10 Ramps**
DIRECTION: **WB** DATE: 8/18/11
POSTED SPEED LIMITS: **40 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			42.0
Number of Vehicles Observed			100
Average Speed			37
Range of Speeds	27	to	52

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			70
Percent over Pace Speed			26
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	1	1	1
28	2	2	3
29	1	1	4
30	3	3	7
31	5	5	12
32	5	5	17
33	11	11	28
34	6	6	34
35	11	11	45
36	9	9	54
37	7	7	61
38	8	8	69
39	5	5	74
40	3	3	77
41	5	5	82
42	5	5	87
43	3	3	90
44	2	2	92
45	4	4	96
46	2	2	98
47	0	0	98
48	0	0	98
49	0	0	98
50	1	1	99
51	0	0	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 30 WB

SPEED ZONE SURVEY SHEET

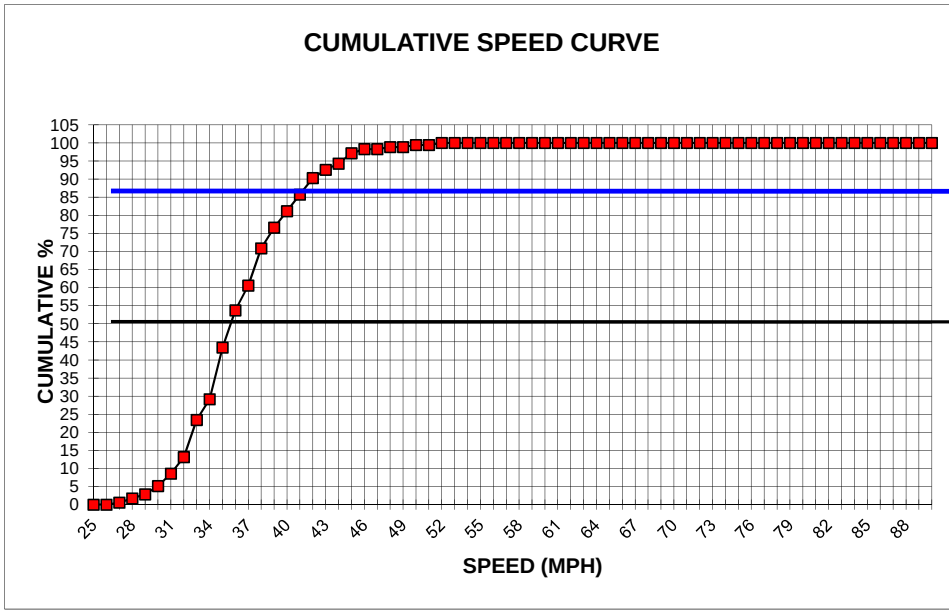
City of Banning
Public Works Department
Kahono Oei, City Engineer

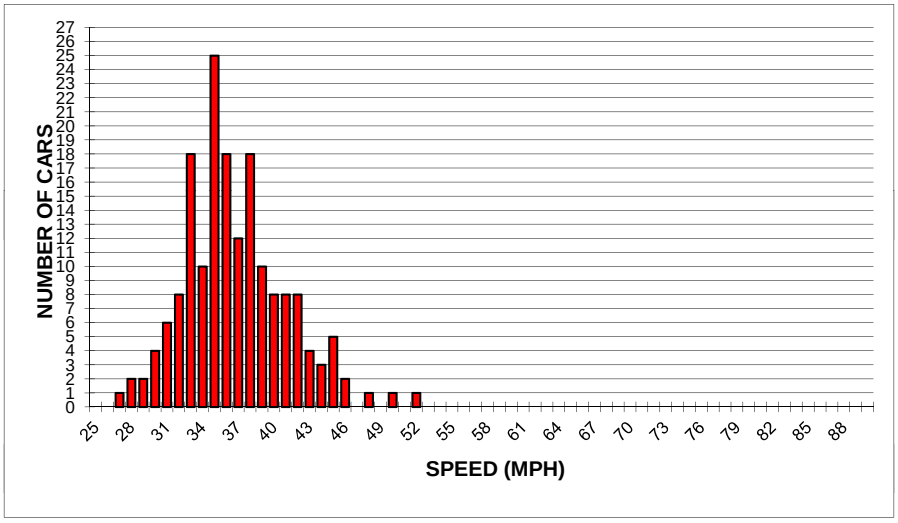
Street **Ramsey Street**
Segment: **From Hargrave Street to I-10 Ramps**
DIRECTION: **Both Directions** DATE: 8/18/11
POSTED SPEED LIMITS: **40 MPH** TIME: 9:00 - 12:00
WEATHER: Clear

50th Percentile Speed			36.0
85th Percentile Speed			41.0
Number of Vehicles Observed			175
Average Speed			37
Range of Speeds	27	to	52

10 MPH Pace Speed	32	to	41
Percent in Pace Speed			77
Percent over Pace Speed			14
Percent under Pace Speed			9

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	0	0	0
27	1	1	1
28	2	1	2
29	2	1	3
30	4	2	5
31	6	3	9
32	8	5	13
33	18	10	23
34	10	6	29
35	25	14	43
36	18	10	54
37	12	7	61
38	18	10	71
39	10	6	77
40	8	5	81
41	8	5	86
42	8	5	90
43	4	2	93
44	3	2	94
45	5	3	97
46	2	1	98
47	0	0	98
48	1	1	99
49	0	0	99
50	1	1	99
51	0	0	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 30 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "31"
Nicolet Street - From Sunset Ave to 22nd St

Location: Nicolet Street - From Sunset Ave to 22nd St	Original Limits: Sunset Ave to San Gorgonio Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/23/2011	85th %tile Speed: 39 mph
Posted Speed Limit: 35 mph	Average Speed: 34 mph
10 mph Pace Speed: 30 - 39 mph	Percent in Pace Speed: 73%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 1	At Intersections: 1	Mid-block: 0
Collision Rate: 2.08 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

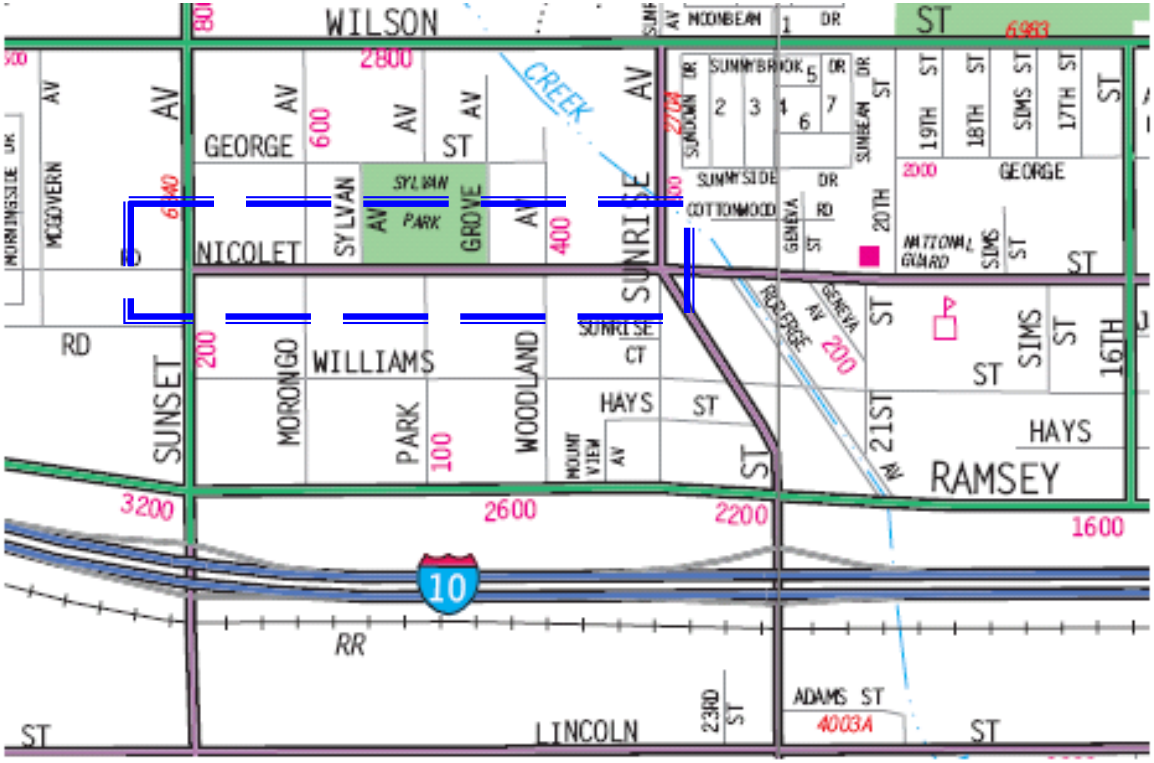
Roadway:	0.6 mile long, 44-ft wide, straight roadway
Traffic:	2,200 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	Uniformity of speed zones

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 31
Nicolet Street – From Sunset Ave to 22nd St



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Nicolet Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **EB** DATE: 8/23/11
POSTED SPEED LIMITS: **35 MPH** TIME: 9:00 - 10:00
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			39.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	24	to	44

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			73
Percent over Pace Speed			13
Percent under Pace Speed			13

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	1	1	3
26	2	3	5
27	1	1	7
28	3	4	11
29	2	3	13
30	5	7	20
31	4	5	25
32	6	8	33
33	7	9	43
34	7	9	52
35	3	4	56
36	7	9	65
37	5	7	72
38	7	9	81
39	4	5	87
40	4	5	92
41	2	3	95
42	2	3	97
43	1	1	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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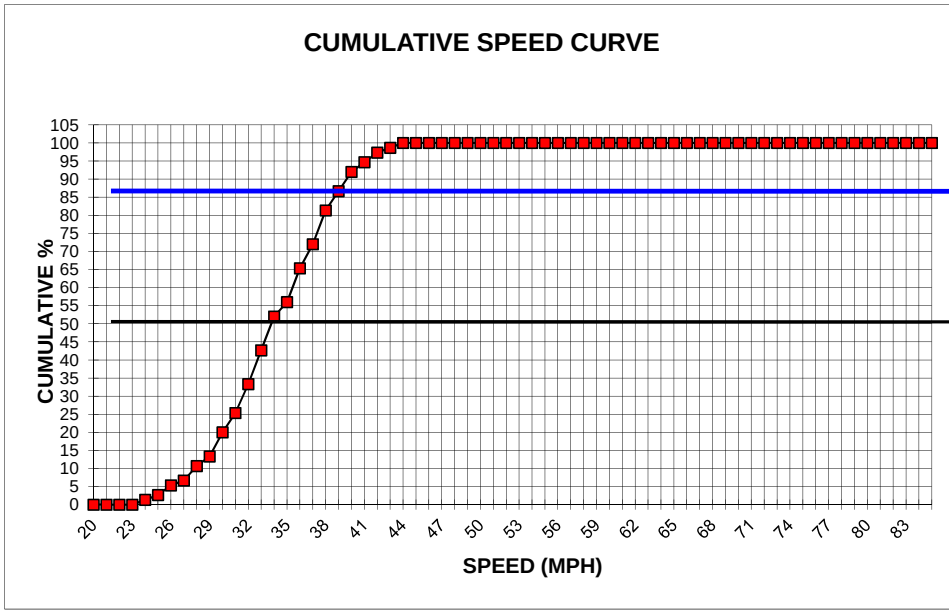
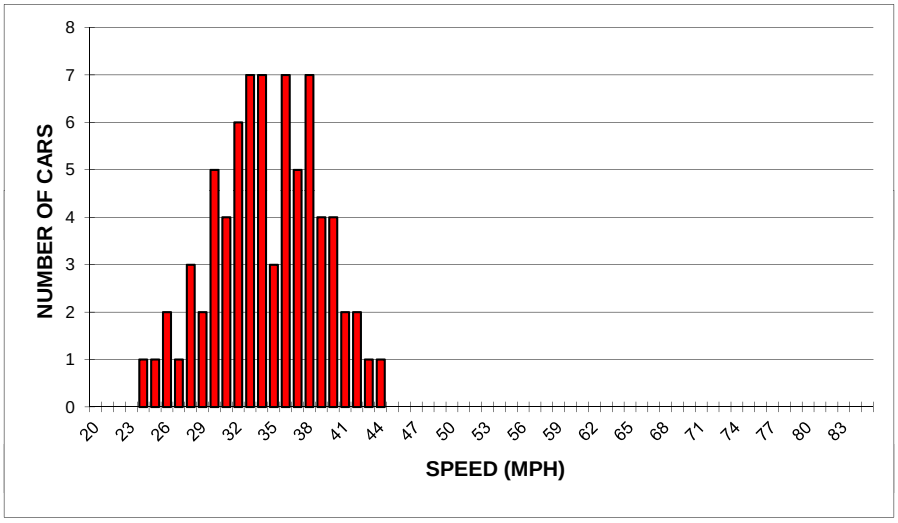
74	0	0	100
75	0	0	100





Loc 31 EB

SPEED ZONE SURVEY SHEET

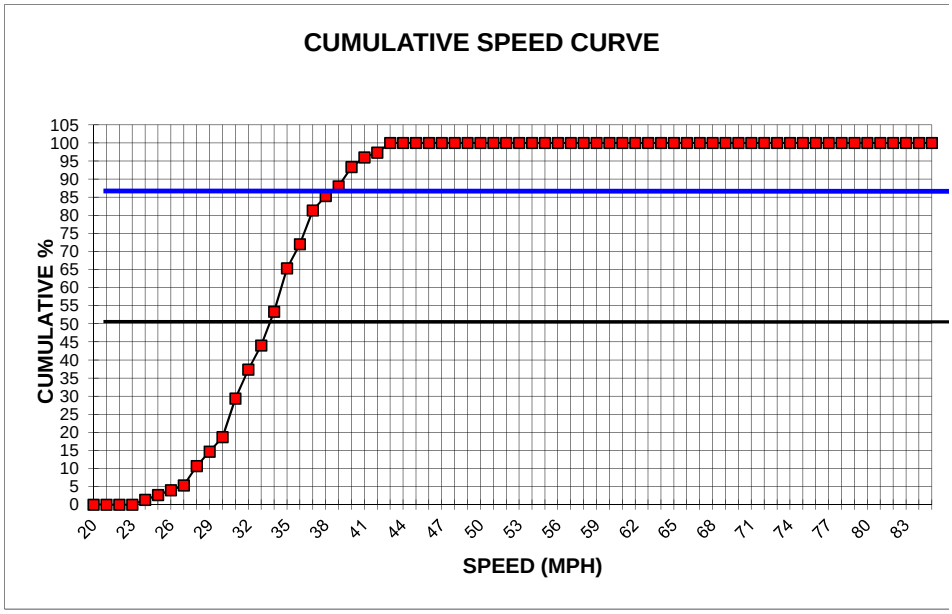
City of Banning
Public Works Department
Kahono Oei, City Engineer

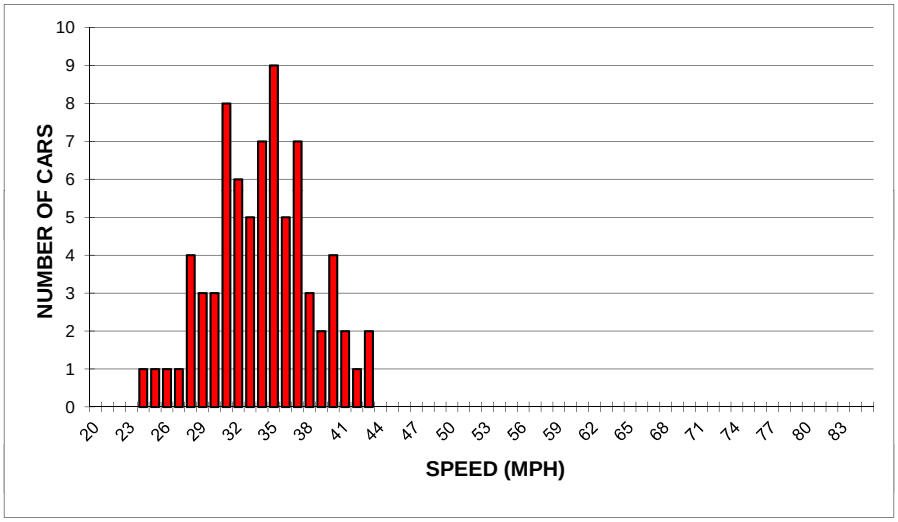
Roadway: **Nicolet Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **WB** DATE: 8/23/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	24	to	43

10 MPH Pace Speed	28	to	37
Percent in Pace Speed			76
Percent over Pace Speed			19
Percent under Pace Speed			5

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	1	1	3
26	1	1	4
27	1	1	5
28	4	5	11
29	3	4	15
30	3	4	19
31	8	11	29
32	6	8	37
33	5	7	44
34	7	9	53
35	9	12	65
36	5	7	72
37	7	9	81
38	3	4	85
39	2	3	88
40	4	5	93
41	2	3	96
42	1	1	97
43	2	3	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 31 WB

SPEED ZONE SURVEY SHEET

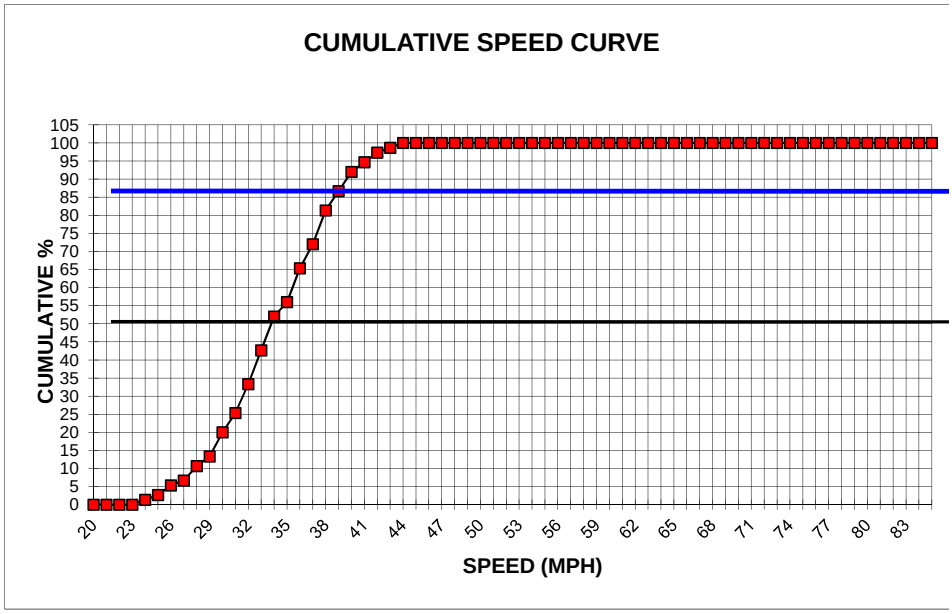
City of Banning
Public Works Department
Kahono Oei, City Engineer

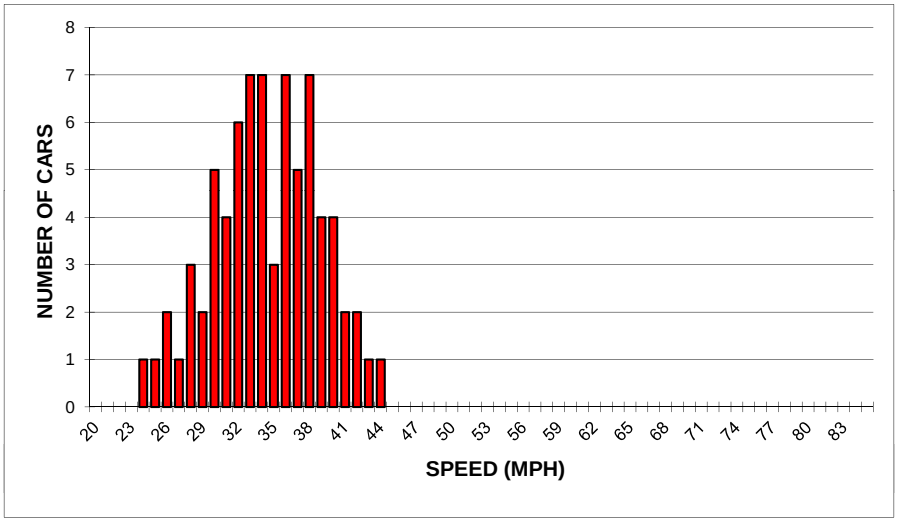
Street **Nicolet Street**
Segment: **From Sunset Avenue to 22nd Street**
DIRECTION: **Both Directions** DATE: 8/23/11
POSTED SPEED LIMITS: **35 MPH** TIME: 9:00 - 10:00
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			39.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	24	to	44

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			73
Percent over Pace Speed			13
Percent under Pace Speed			13

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	1	1	3
26	2	3	5
27	1	1	7
28	3	4	11
29	2	3	13
30	5	7	20
31	4	5	25
32	6	8	33
33	7	9	43
34	7	9	52
35	3	4	56
36	7	9	65
37	5	7	72
38	7	9	81
39	4	5	87
40	4	5	92
41	2	3	95
42	2	3	97
43	1	1	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 31 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "32"
Nicolet Street - From 22nd St to 4th St

Location: Nicolet Street - From 22nd St to 4th St	Original Limits: Sunset Ave to San Gorgonio Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/23/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 35 mph	Average Speed: 34 mph
10 mph Pace Speed: 29 - 38 mph	Percent in Pace Speed: 73%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 4	At Intersections: 1	Mid-block: 3
Collision Rate: 5.53 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.9 mile long, 44-ft wide, straight roadway
Traffic:	2,200 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

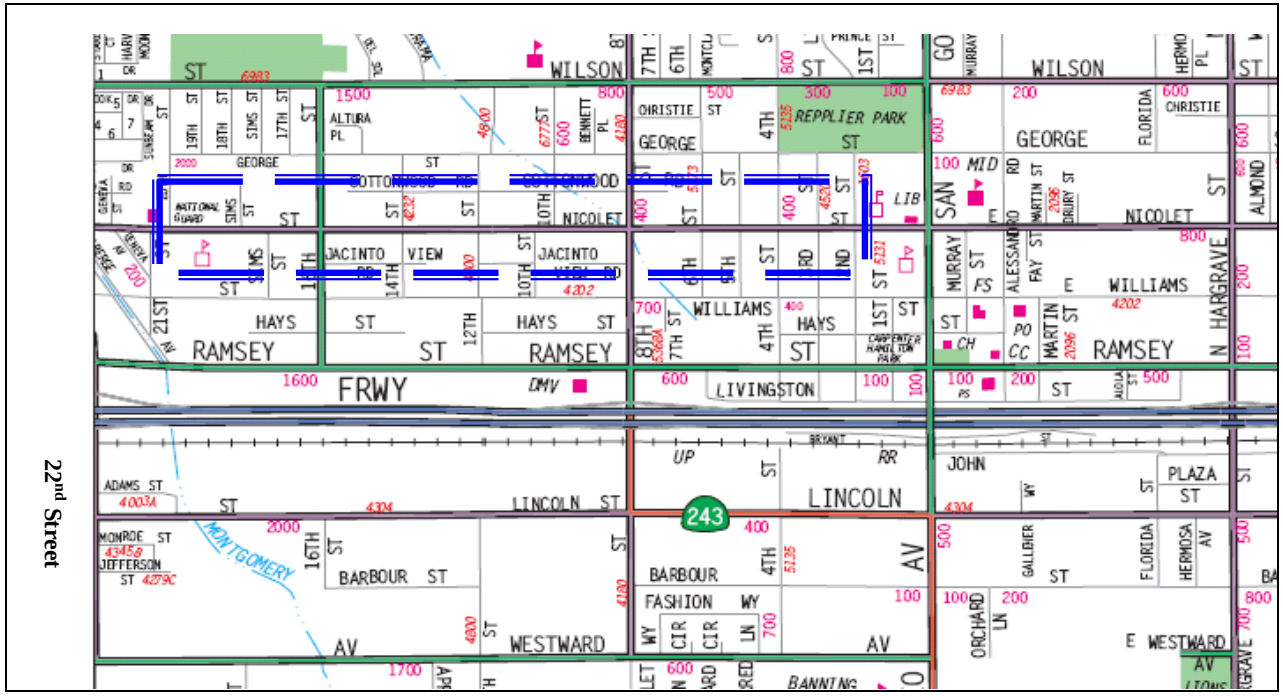
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "32"

Radar Enforceable Speed Zone
Zone 32
Nicolet Sreet – From 22nd St to 4th St



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Nicolet Street**
Segment: **From 22nd Street to 4th Street**
DIRECTION: **EB** DATE: 8/23/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:15 - 14:15
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			39.0
Number of Vehicles Observed			75
Average Speed			34
Range of Speeds	26	to	45

10 MPH Pace Speed	29	to	38
Percent in Pace Speed			73
Percent over Pace Speed			19
Percent under Pace Speed			8

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	1	1	1
27	1	1	3
28	4	5	8
29	5	7	15
30	7	9	24
31	4	5	29
32	5	7	36
33	5	7	43
34	10	13	56
35	3	4	60
36	8	11	71
37	2	3	73
38	6	8	81
39	3	4	85
40	3	4	89
41	2	3	92
42	2	3	95
43	3	4	99
44	0	0	99
45	1	1	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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76	0	0	100
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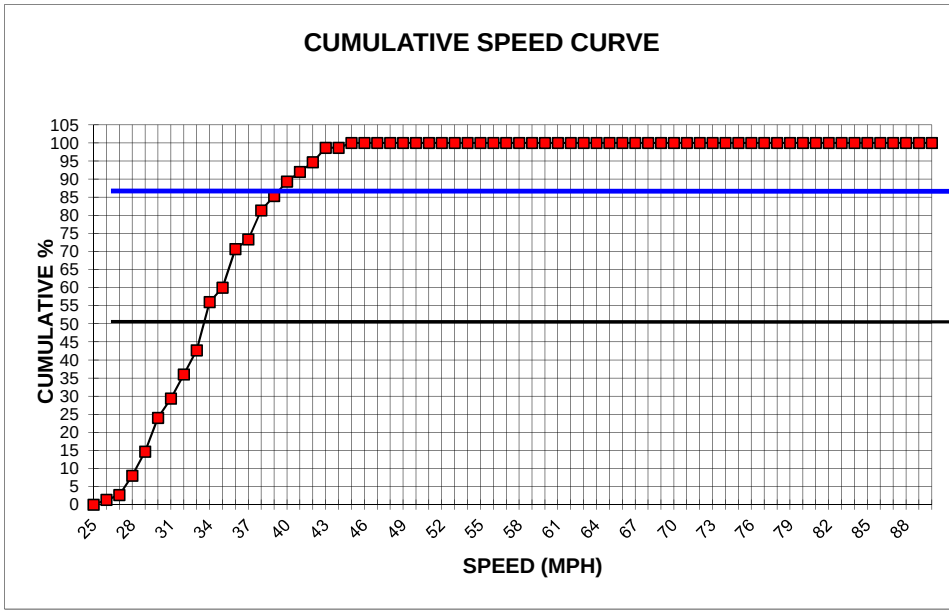
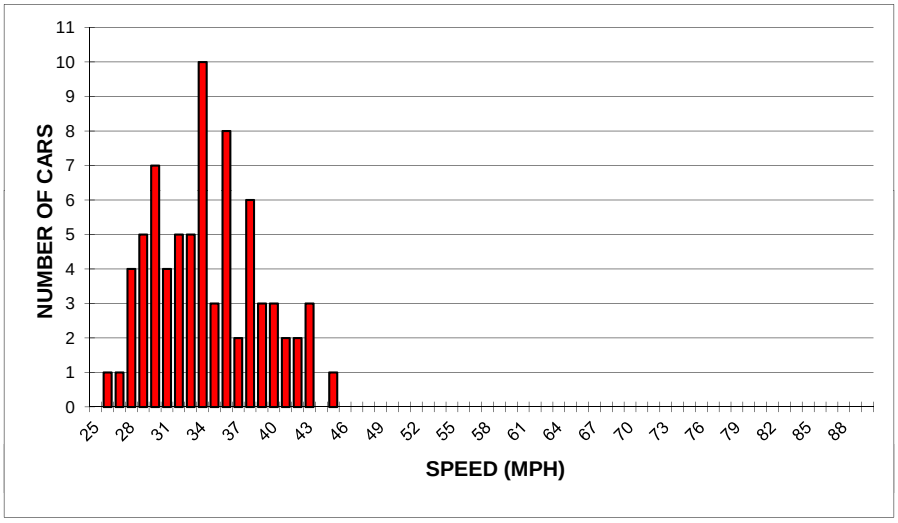
78	0	0	100
79	0	0	100
80	0	0	100





Loc 32 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Nicolet Street**
Segment: **From 22nd Street to 4th Street**
DIRECTION: **WB** DATE: 8/23/11
POSTED SPEED LIMITS: **35 MPH** TIME: 15:00 - 16:15
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			33
Range of Speeds	24	to	42

10 MPH Pace Speed	28	to	37
Percent in Pace Speed			73
Percent over Pace Speed			19
Percent under Pace Speed			8

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	1	1	3
26	3	4	7
27	1	1	8
28	4	5	13
29	5	7	20
30	5	7	27
31	7	9	36
32	5	7	43
33	3	4	47
34	10	13	60
35	7	9	69
36	7	9	79
37	2	3	81
38	4	5	87
39	4	5	92
40	3	4	96
41	2	3	99
42	1	1	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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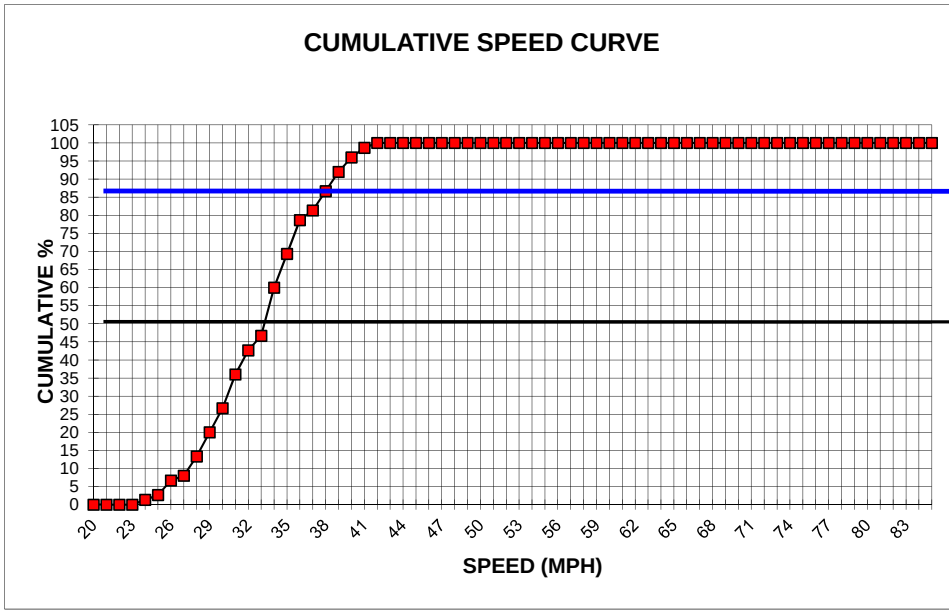
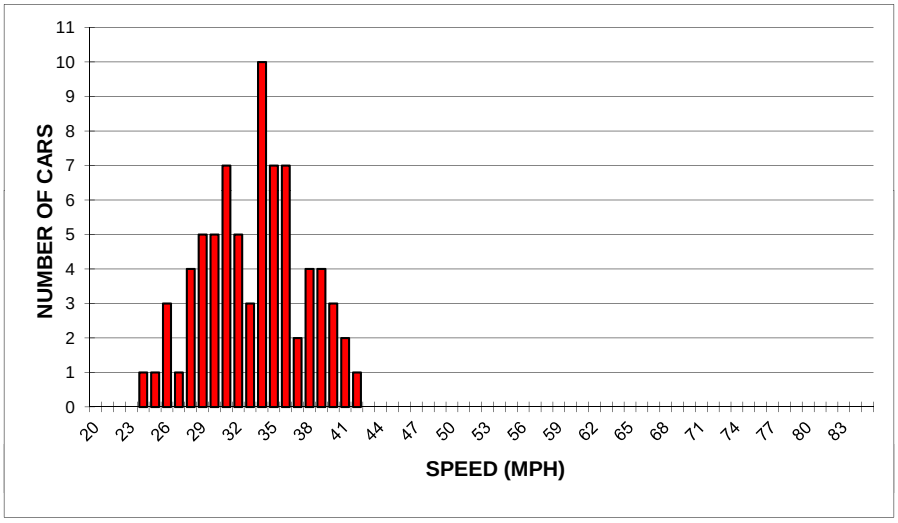
74	0	0	100
75	0	0	100





Loc 32 WB

SPEED ZONE SURVEY SHEET

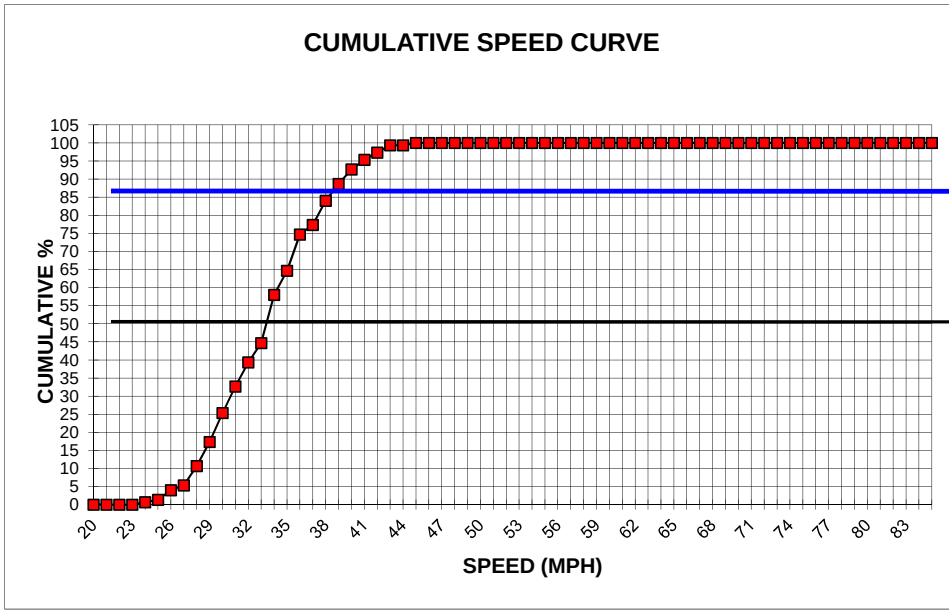
City of Banning
Public Works Department
Kahono Oei, City Engineer

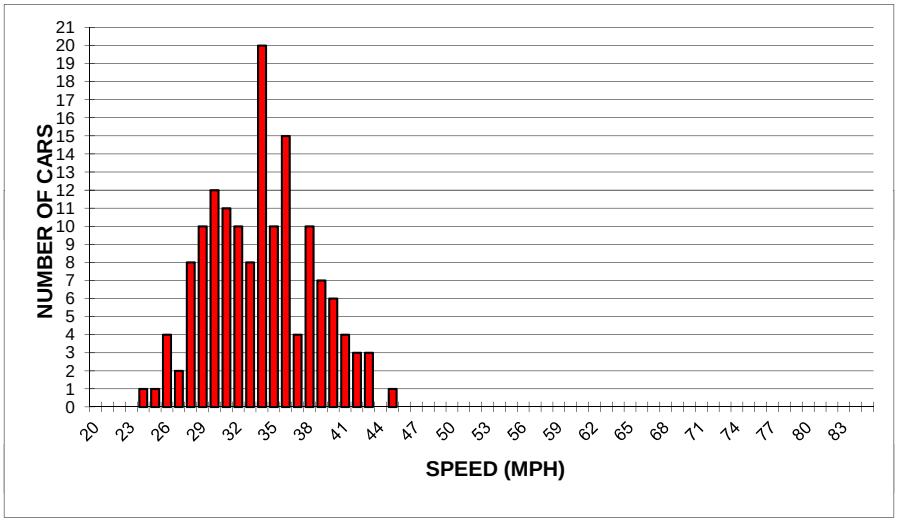
Street **Nicolet Street**
Segment: **From 22nd Street to 4th Street**
DIRECTION: **Both Directions** DATE: 8/23/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:15 - 16:15
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			38.0
Number of Vehicles Observed			150
Average Speed			34
Range of Speeds	24	to	45

10 MPH Pace Speed	29	to	38
Percent in Pace Speed			73
Percent over Pace Speed			16
Percent under Pace Speed			11

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	1	1	1
25	1	1	1
26	4	3	4
27	2	1	5
28	8	5	11
29	10	7	17
30	12	8	25
31	11	7	33
32	10	7	39
33	8	5	45
34	20	13	58
35	10	7	65
36	15	10	75
37	4	3	77
38	10	7	84
39	7	5	89
40	6	4	93
41	4	3	95
42	3	2	97
43	3	2	99
44	0	0	99
45	1	1	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 32 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "33"
Nicolet Street - From 4th St to Hargrave St

Location: Nicolet Street - From 4th St to Hargrave St	Original Limits: Sunset Ave to San Gorgonio Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/24/2011	85th %tile Speed: 29 mph
Posted Speed Limit: 25 mph	Average Speed: 27 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 91%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 11	At Intersections: 8	Mid-block: 3
Collision Rate: 27.40 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

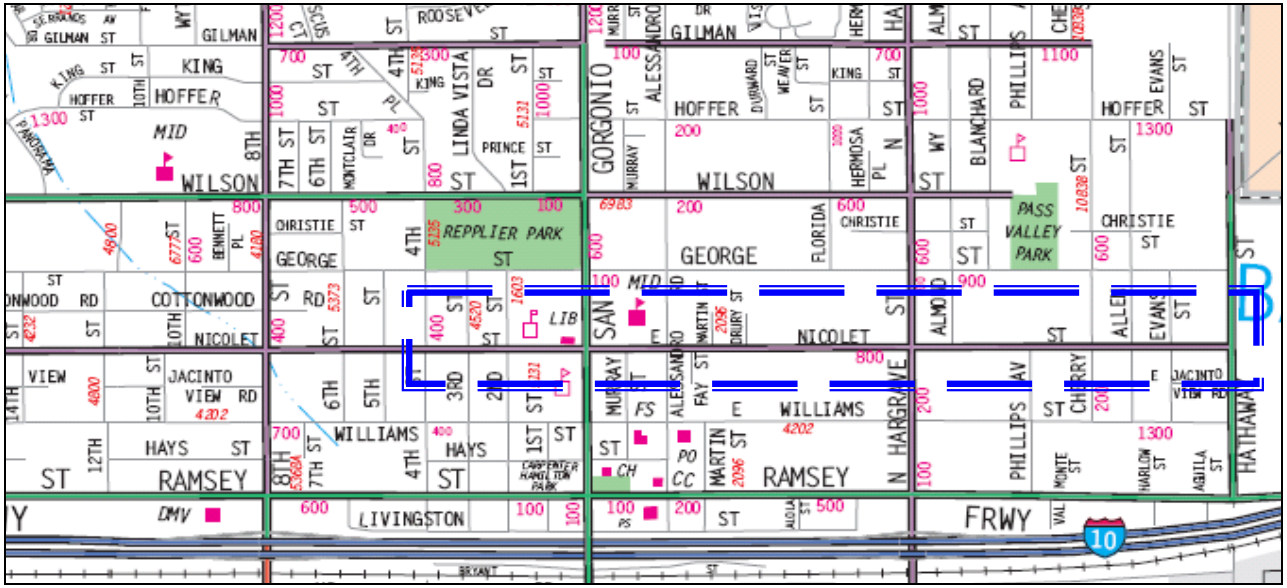
Roadway:	0.5 mile long, 44-ft wide, straight roadway
Traffic:	2,200 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	Uniformity of speed zones

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 33
Nicolet Sreet – From 4th St to Hargrave St



Zone 33

SPEED ZONE SURVEY SHEET

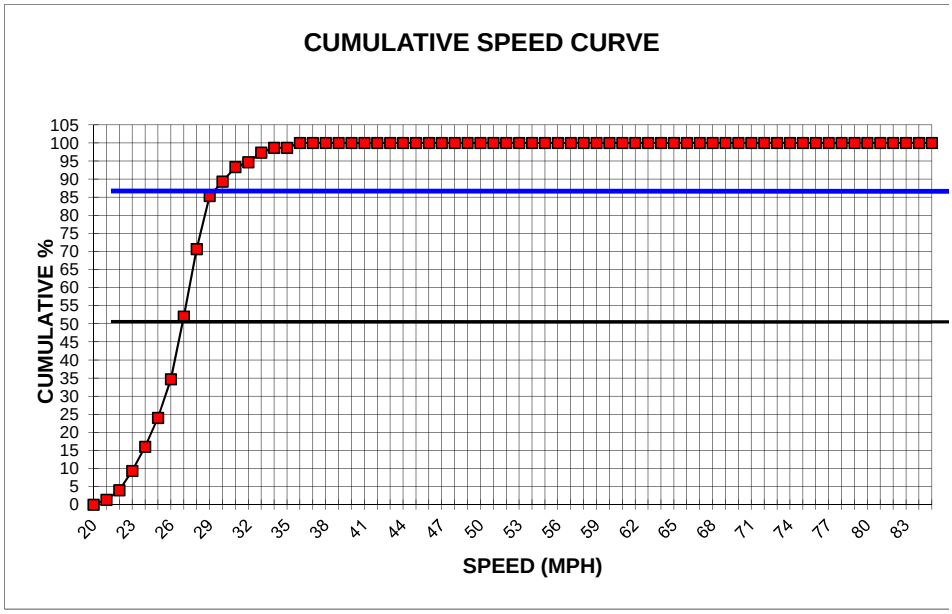
City of Banning
Public Works Department
Kahono Oei, City Engineer

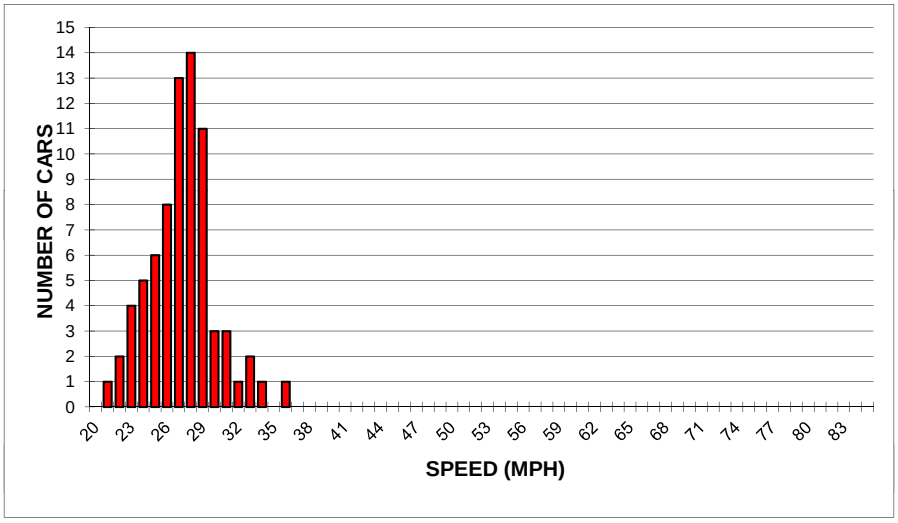
Street **Nicolet Street**
Segment: **From 4th Street to Hargrave Street**
DIRECTION: **EB** DATE: 8/24/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			29.0
Number of Vehicles Observed			75
Average Speed			27
Range of Speeds	21	to	36

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			92
Percent over Pace Speed			7
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	1	1	1
22	2	3	4
23	4	5	9
24	5	7	16
25	6	8	24
26	8	11	35
27	13	17	52
28	14	19	71
29	11	15	85
30	3	4	89
31	3	4	93
32	1	1	95
33	2	3	97
34	1	1	99
35	0	0	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 33 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Nicolet Street**
Segment: **From 4th Street to Hargrave Street**
DIRECTION: **WB** DATE: 8/24/11
POSTED SPEED LIMITS: **25 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			29.0
Number of Vehicles Observed			75
Average Speed			27
Range of Speeds	20	to	34

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			91
Percent over Pace Speed			5
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	2	3	4
22	3	4	8
23	4	5	13
24	5	7	20
25	7	9	29
26	10	13	43
27	12	16	59
28	11	15	73
29	9	12	85
30	4	5	91
31	3	4	95
32	1	1	96
33	2	3	99
34	1	1	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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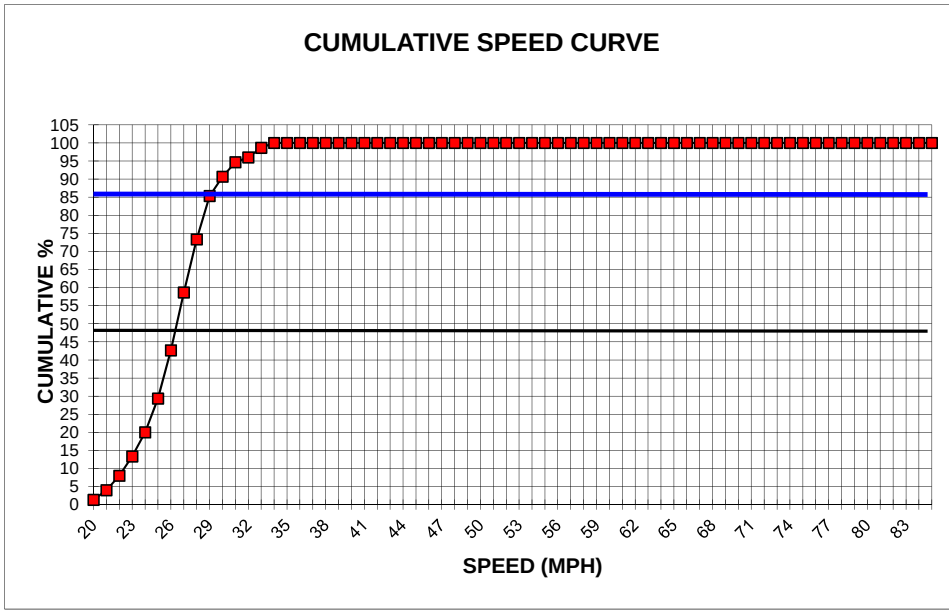
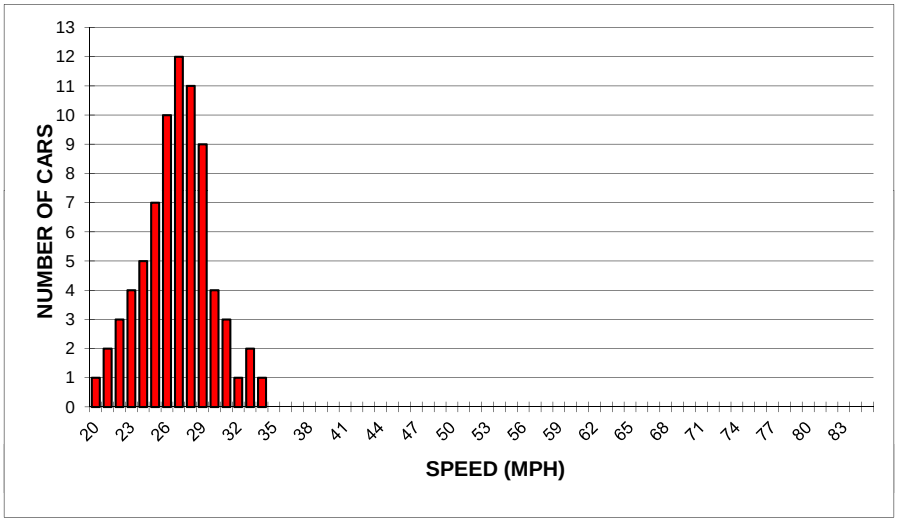
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 33 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Nicolet Street**
Segment: **From 4th Street to Hargrave Street**
DIRECTION: **Both Directions** DATE: 8/24/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:00 - 12:00
WEATHER: Clear

50th Percentile Speed	27.0	10 MPH Pace Speed	22 to 31
85th Percentile Speed	29.0	Percent in Pace Speed	91
Number of Vehicles Observed	150	Percent over Pace Speed	6
Average Speed	27	Percent under Pace Speed	3
Range of Speeds	20 to 36		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	3	2	3
22	5	3	6
23	8	5	11
24	10	7	18
25	13	9	27
26	18	12	39
27	25	17	55
28	25	17	72
29	20	13	85
30	7	5	90
31	6	4	94
32	2	1	95
33	4	3	98
34	2	1	99
35	0	0	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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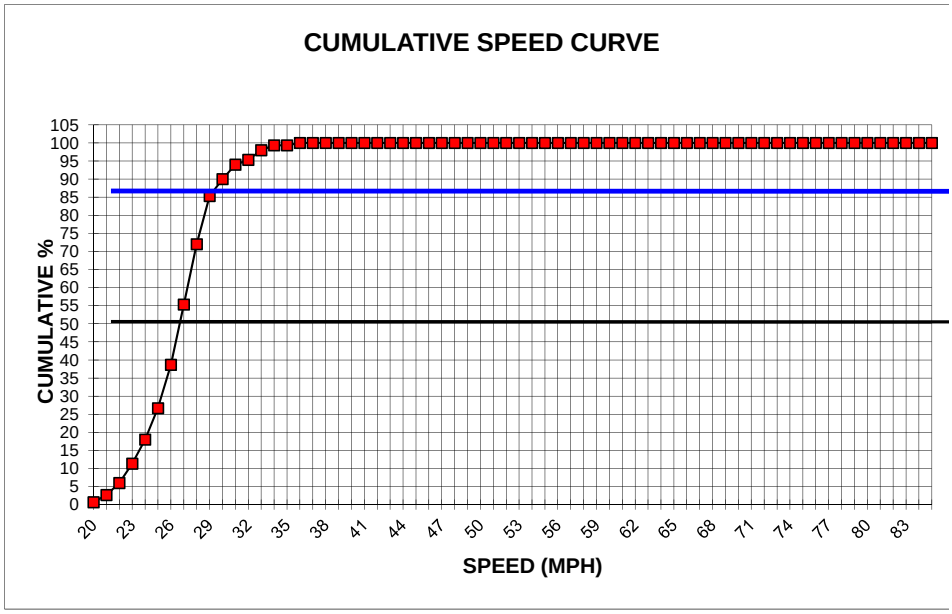
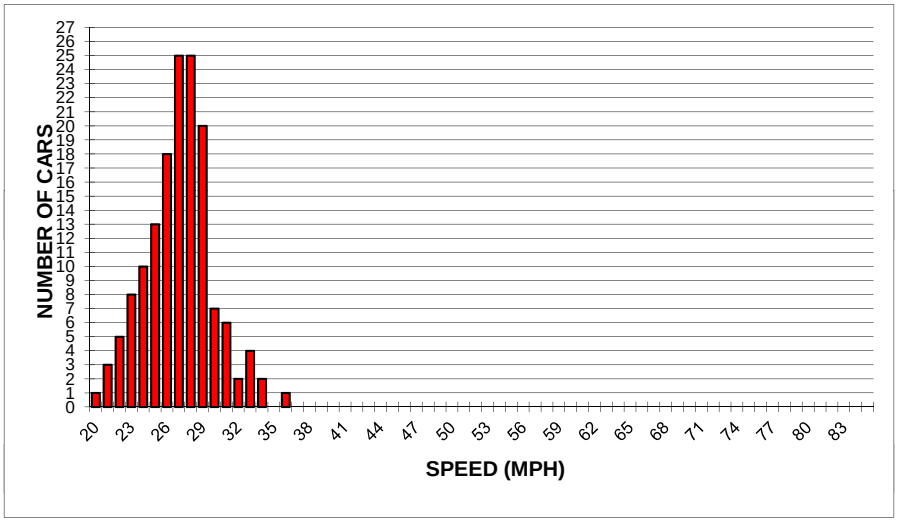
74	0	0	100
75	0	0	100





Loc 33 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "34"
Nicolet Street - From Hargrave St to Hathaway St

Location: Nicolet Street - From Hargrave St to Hathaway St	Original Limits:

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/7/2011	85th %tile Speed: 28 mph
Posted Speed Limit: 25 mph	Average Speed: 27 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 91%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 1	Mid-block: 1
Collision Rate: 6.23 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.4 mile long, 36-ft wide, straight roadway
Traffic:	2,200 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

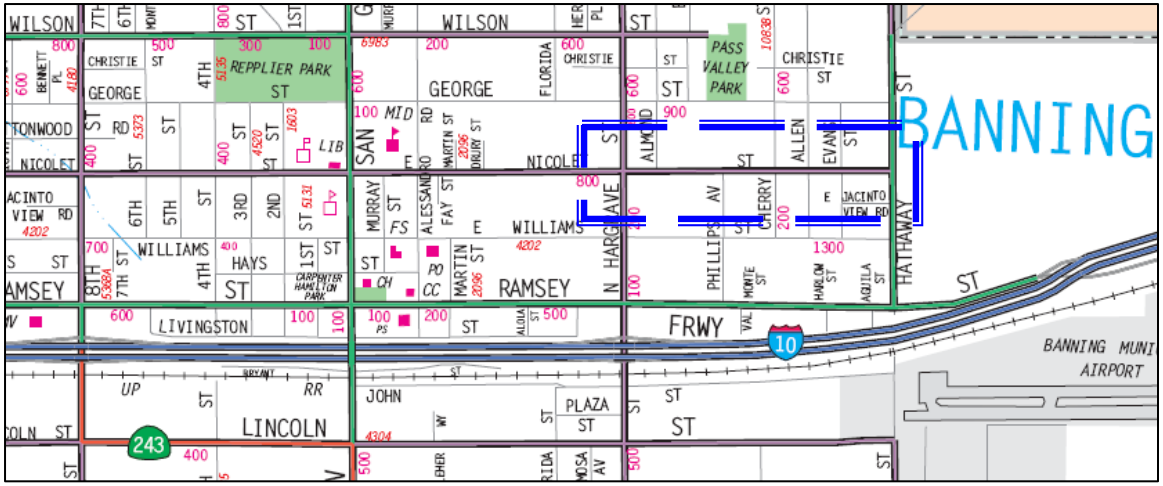
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph** (If recommendation below 85%tile, state reasons below.)

(*) - No recent collision records available

ZONE "34"

Radar Enforceable Speed Zone
Zone 34
Nicolet Street – From Hargrave St to Hathaway St



SPEED ZONE SURVEY SHEET

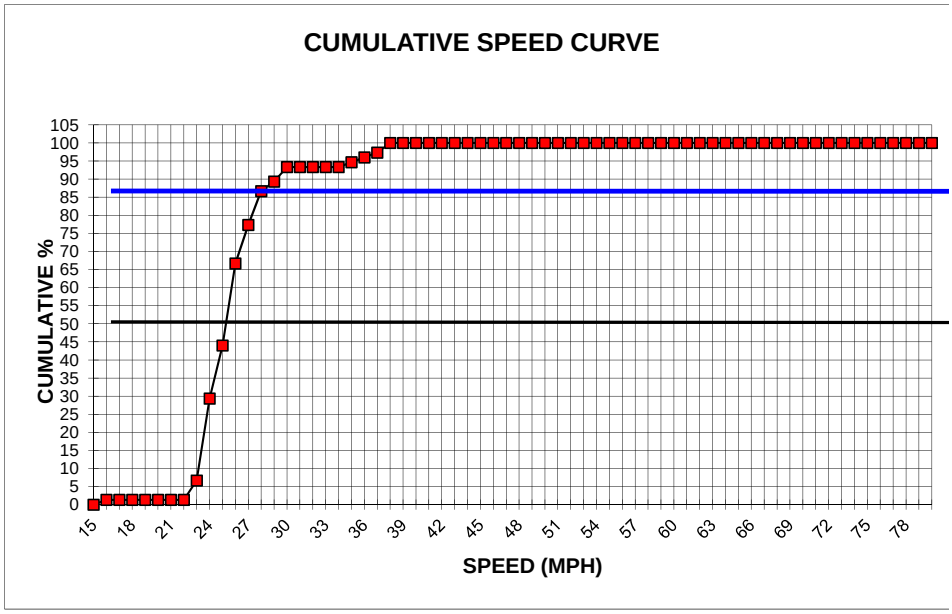
City of Banning
Public Works Department
Kahono Oei, City Engineer

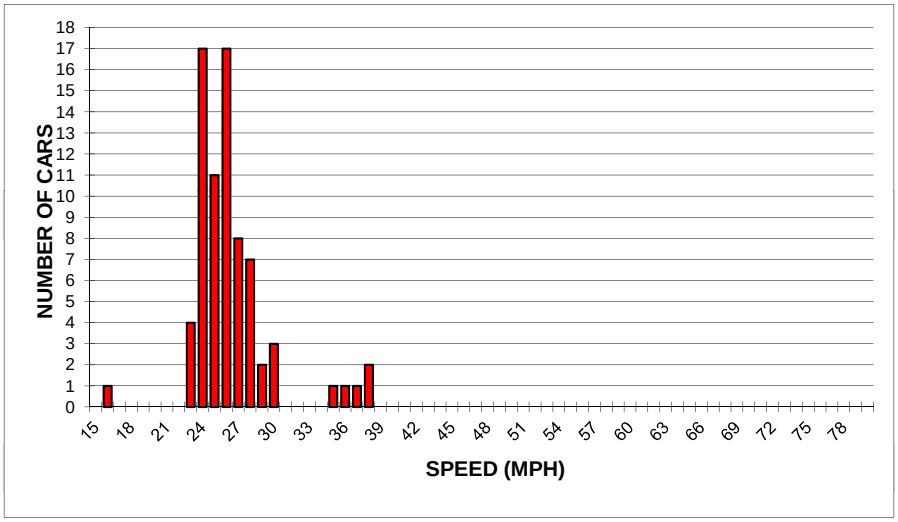
Street **Nicolet Street**
Segment: **From Hargrave Street to Hathaway Street**
DIRECTION: **EB** DATE: 9/07/11
POSTED SPEED LIMITS: **25 MPH** TIME: 10:00 - 11:30
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			28.0
Number of Vehicles Observed			75
Average Speed			26
Range of Speeds	16	to	38

10 MPH Pace Speed	21	to	30
Percent in Pace Speed			92
Percent over Pace Speed			7
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
15	0	0	0
16	1	1	1
17	0	0	1
18	0	0	1
19	0	0	1
20	0	0	1
21	0	0	1
22	0	0	1
23	4	5	7
24	17	23	29
25	11	15	44
26	17	23	67
27	8	11	77
28	7	9	87
29	2	3	89
30	3	4	93
31	0	0	93
32	0	0	93
33	0	0	93
34	0	0	93
35	1	1	95
36	1	1	96
37	1	1	97
38	2	3	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100





Loc 34 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Nicolet Street**
Segment: **From Hargrave Street to Hathaway Street**
DIRECTION: **WB** DATE: 9/7/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			28.0
Number of Vehicles Observed			75
Average Speed			27
Range of Speeds	20	to	40

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			91
Percent over Pace Speed			8
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	0	0	1
22	0	0	1
23	4	5	7
24	12	16	23
25	12	16	39
26	16	21	60
27	10	13	73
28	8	11	84
29	1	1	85
30	3	4	89
31	2	3	92
32	0	0	92
33	1	1	93
34	0	0	93
35	1	1	95
36	1	1	96
37	1	1	97
38	1	1	99
39	0	0	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
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59	0	0	100
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61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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71	0	0	100
72	0	0	100
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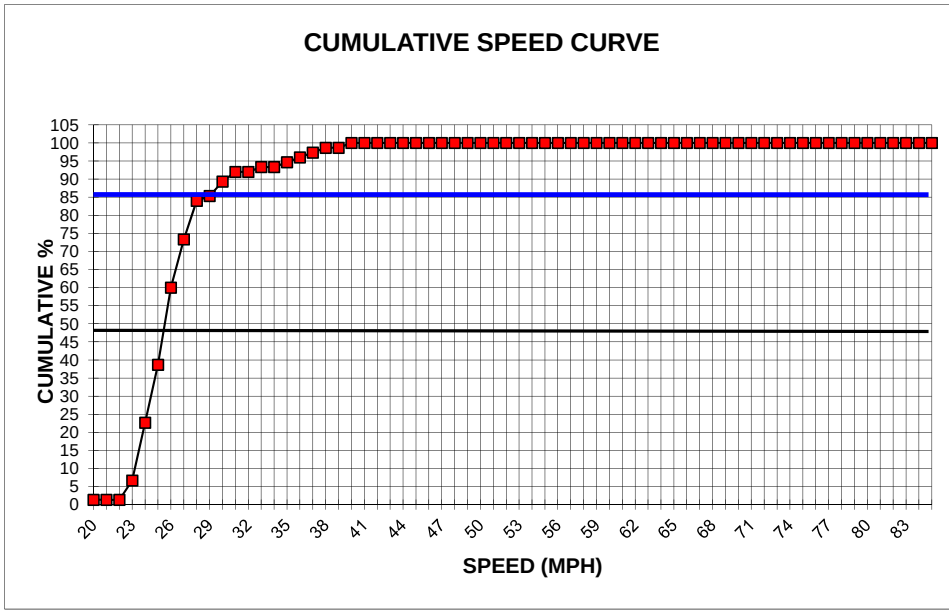
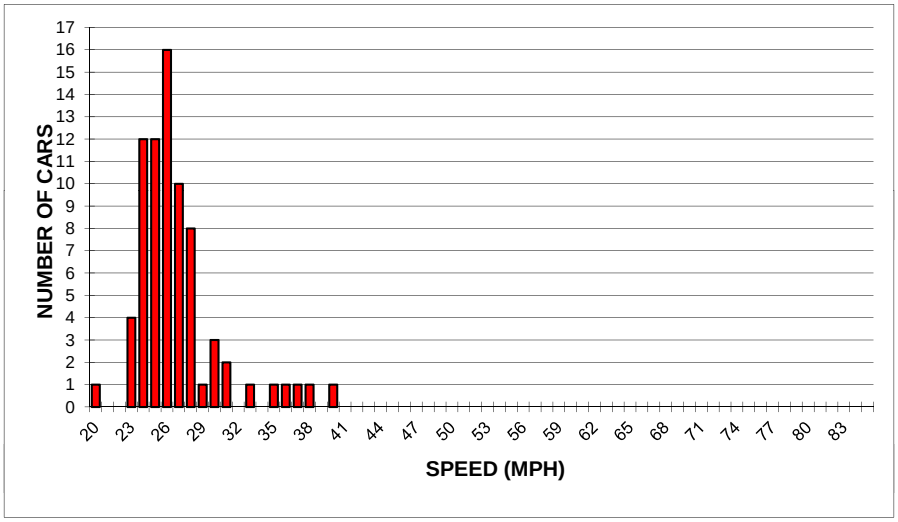
74	0	0	100
75	0	0	100





Loc 34 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Nicolet Street**
Segment: **From Hargrave Street to Hathaway Street**
DIRECTION: **Both Directions** DATE: 9/7/11
POSTED SPEED LIMITS: **25 MPH** TIME: 10:00 - 14:00
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			28.0
Number of Vehicles Observed			150
Average Speed			27
Range of Speeds	16	to	40

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			91
Percent over Pace Speed			7
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
15	0	0	0
16	1	1	1
17	0	0	1
18	0	0	1
19	0	0	1
20	1	1	1
21	0	0	1
22	0	0	1
23	8	5	7
24	29	19	26
25	23	15	41
26	33	22	63
27	18	12	75
28	15	10	85
29	3	2	87
30	6	4	91
31	2	1	93
32	0	0	93
33	1	1	93
34	0	0	93
35	2	1	95
36	2	1	96
37	2	1	97
38	3	2	99
39	0	0	99
40	1	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
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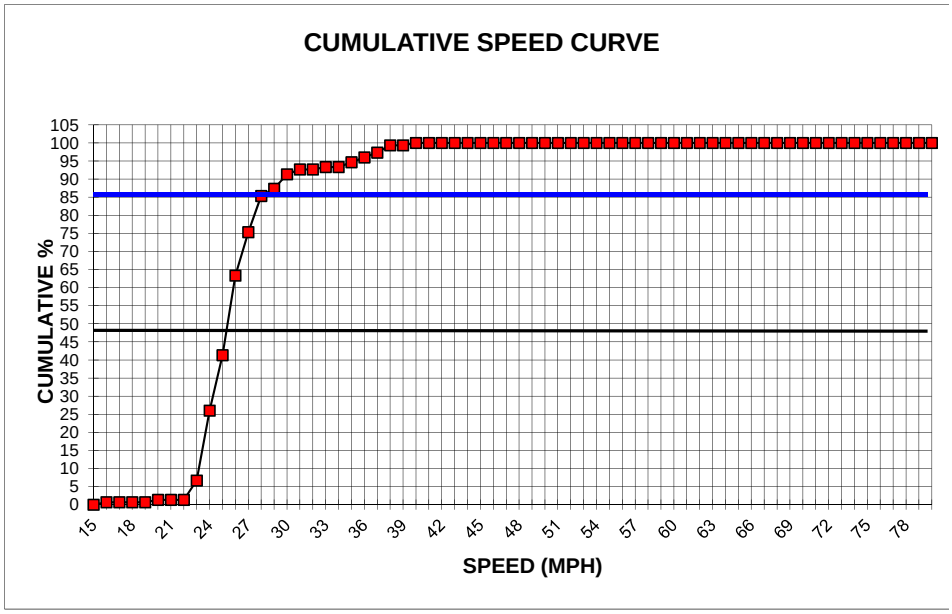
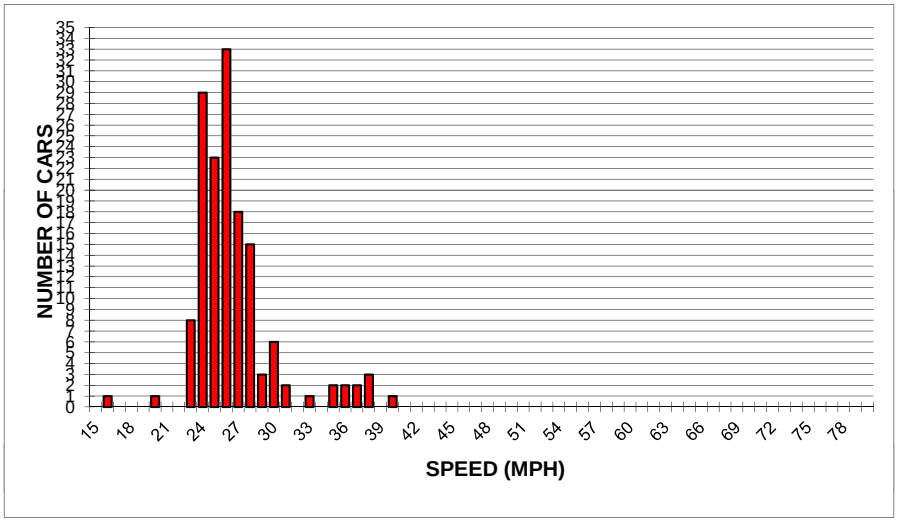
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100





Loc 34 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "34"
Nicolet Street - From Hargrave St to Hathaway St

Location: Nicolet Street - From Hargrave St to Hathaway St	Original Limits:

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/7/2011	85th %tile Speed: 28 mph
Posted Speed Limit: 25 mph	Average Speed: 27 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 91%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 1	Mid-block: 1
Collision Rate: 6.23 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.4 mile long, 36-ft wide, straight roadway
Traffic:	2,200 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

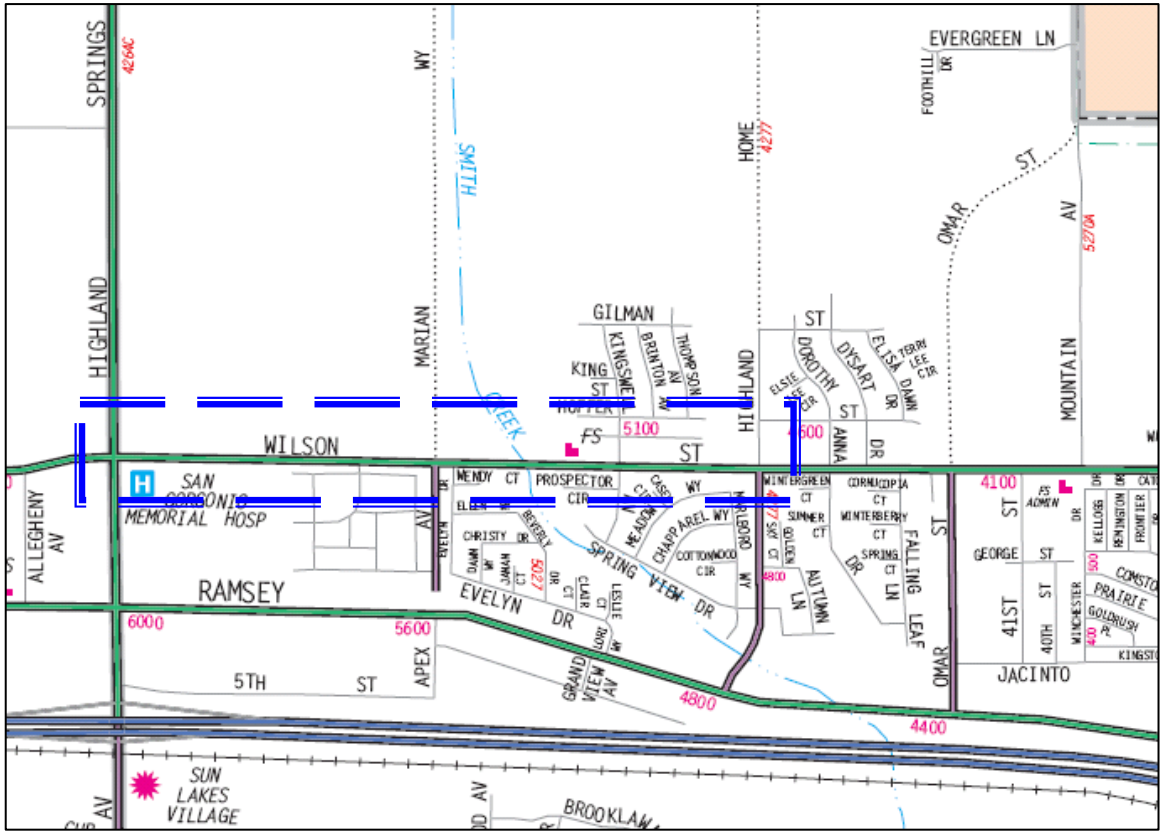
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph** (If recommendation below 85%tile, state reasons below.)

(*) - No recent collision records available

ZONE "34"

Radar Enforceable Speed Zone
Zone 35
Wilson Street – Highland Springs Ave to Highland Home Rd



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Wilson Street**
Segment: **From Highland Springs Avenue to Highland Home Road**
DIRECTION: **EB** DATE: 8/25/11
POSTED SPEED LIMITS: **45 MPH** TIME: 10:30 - 11:40
WEATHER: Clear

50th Percentile Speed			44.0
85th Percentile Speed			48.0
Number of Vehicles Observed			100
Average Speed			43
Range of Speeds	32	to	53

10 MPH Pace Speed	38	to	47
Percent in Pace Speed			72
Percent over Pace Speed			18
Percent under Pace Speed			10

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	2	2	2
33	1	1	3
34	1	1	4
35	3	3	7
36	2	2	9
37	1	1	10
38	7	7	17
39	4	4	21
40	5	5	26
41	4	4	30
42	7	7	37
43	12	12	49
44	6	6	55
45	13	13	68
46	5	5	73
47	9	9	82
48	7	7	89
49	1	1	90
50	5	5	95
51	1	1	96
52	2	2	98
53	2	2	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
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72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
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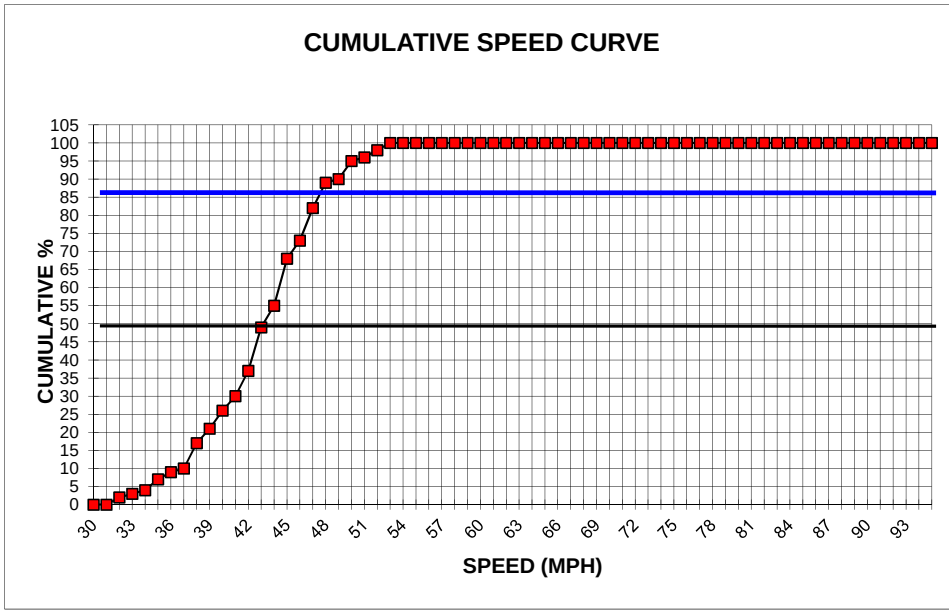
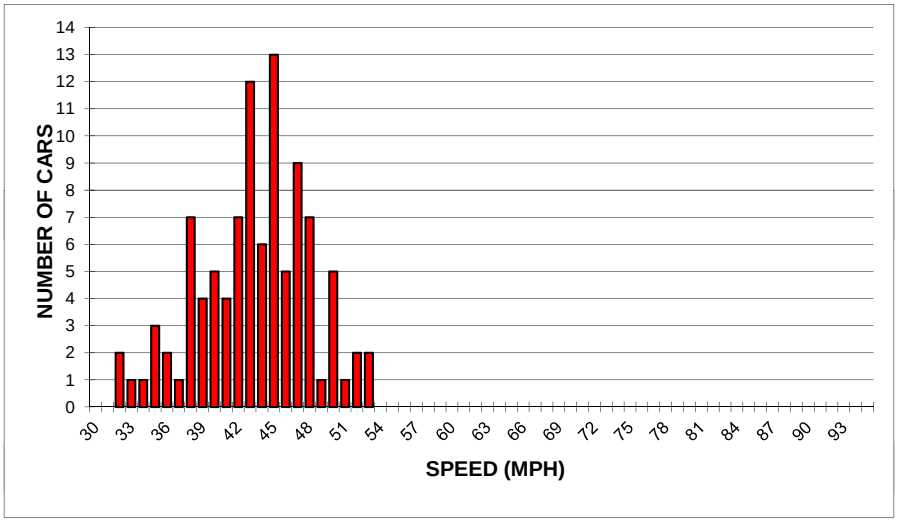
85	0	0	100





Loc 35 EB

SPEED ZONE SURVEY SHEET

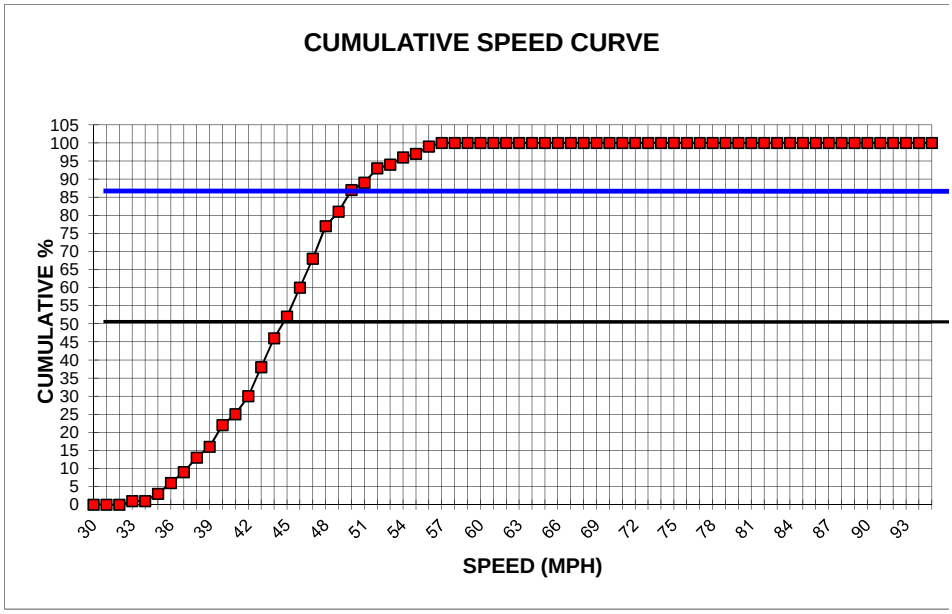
City of Banning
Public Works Department
Kahono Oei, City Engineer

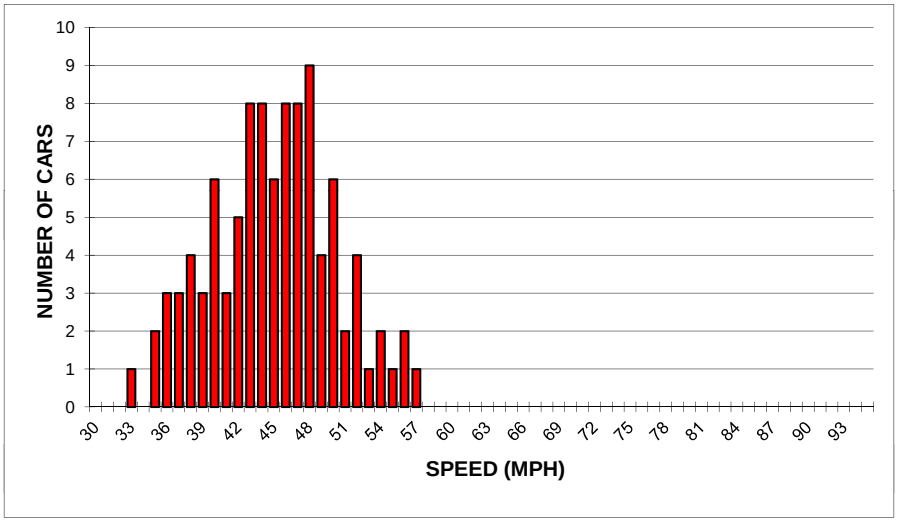
Roadway: **Wilson Street**
Segment: **From Highland Springs Avenue to Highland Home Road**
DIRECTION: **WB** DATE: 8/25/11
POSTED SPEED LIMITS: **45 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed			45.0
85th Percentile Speed			50.0
Number of Vehicles Observed			100
Average Speed			45
Range of Speeds	33	to	57

10 MPH Pace Speed	40	to	49
Percent in Pace Speed			65
Percent over Pace Speed			19
Percent under Pace Speed			16

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	0	0	0
33	1	1	1
34	0	0	1
35	2	2	3
36	3	3	6
37	3	3	9
38	4	4	13
39	3	3	16
40	6	6	22
41	3	3	25
42	5	5	30
43	8	8	38
44	8	8	46
45	6	6	52
46	8	8	60
47	8	8	68
48	9	9	77
49	4	4	81
50	6	6	87
51	2	2	89
52	4	4	93
53	1	1	94
54	2	2	96
55	1	1	97
56	2	2	99
57	1	1	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 35 WB

SPEED ZONE SURVEY SHEET

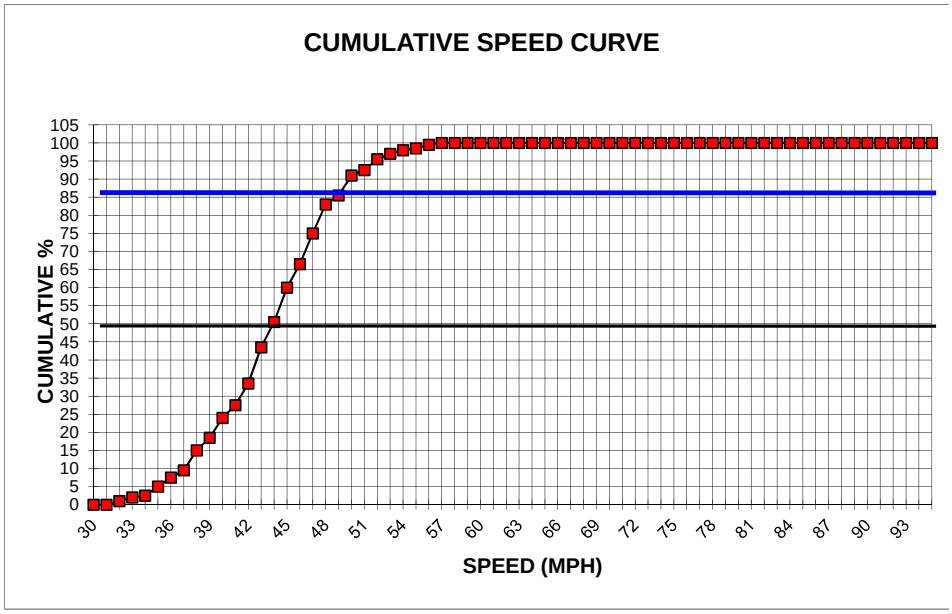
City of Banning
Public Works Department
Kahono Oei, City Engineer

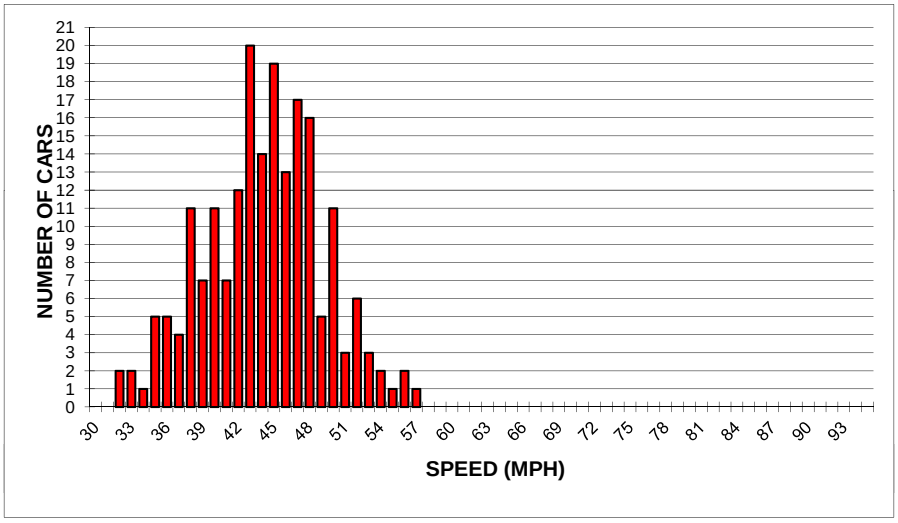
Street **Wilson Street**
Segment: **From Highland Springs Avenue to Highland Home Road**
DIRECTION: **Both Directions** DATE: 8/25/11
POSTED SPEED LIMITS: **45 MPH** TIME: 09:00 - 11:40
WEATHER: Clear

50th Percentile Speed			44.0
85th Percentile Speed			49.0
Number of Vehicles Observed			200
Average Speed			44
Range of Speeds	32	to	57

10 MPH Pace Speed	39	to	48
Percent in Pace Speed			68
Percent over Pace Speed			17
Percent under Pace Speed			15

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	2	1	1
33	2	1	2
34	1	1	3
35	5	3	5
36	5	3	8
37	4	2	10
38	11	6	15
39	7	4	19
40	11	6	24
41	7	4	28
42	12	6	34
43	20	10	44
44	14	7	51
45	19	10	60
46	13	7	67
47	17	9	75
48	16	8	83
49	5	3	86
50	11	6	91
51	3	2	93
52	6	3	96
53	3	2	97
54	2	1	98
55	1	1	99
56	2	1	100
57	1	1	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 35 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "36"
Wilson Street - From Highland Home Rd to Sunset Ave

Location: Wilson Street - From Highland Home Rd to Sunset Ave	Original Limits: Highland Springs Ave to Sunset Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/29/2011	85th %tile Speed: 49 mph
Posted Speed Limit: 45 mph	Average Speed: 44 mph
10 mph Pace Speed: 39 - 48 mph	Percent in Pace Speed: 68%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 4	At Intersections: 4	Mid-block: 0
Collision Rate: 1.22 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	1.0 mile long, 64-ft wide, straight roadway
Traffic:	9,000 ADT
Roadside:	Urban residential mixed with some commercial and open/agriculture
Not Readily Apparent to Driver:	

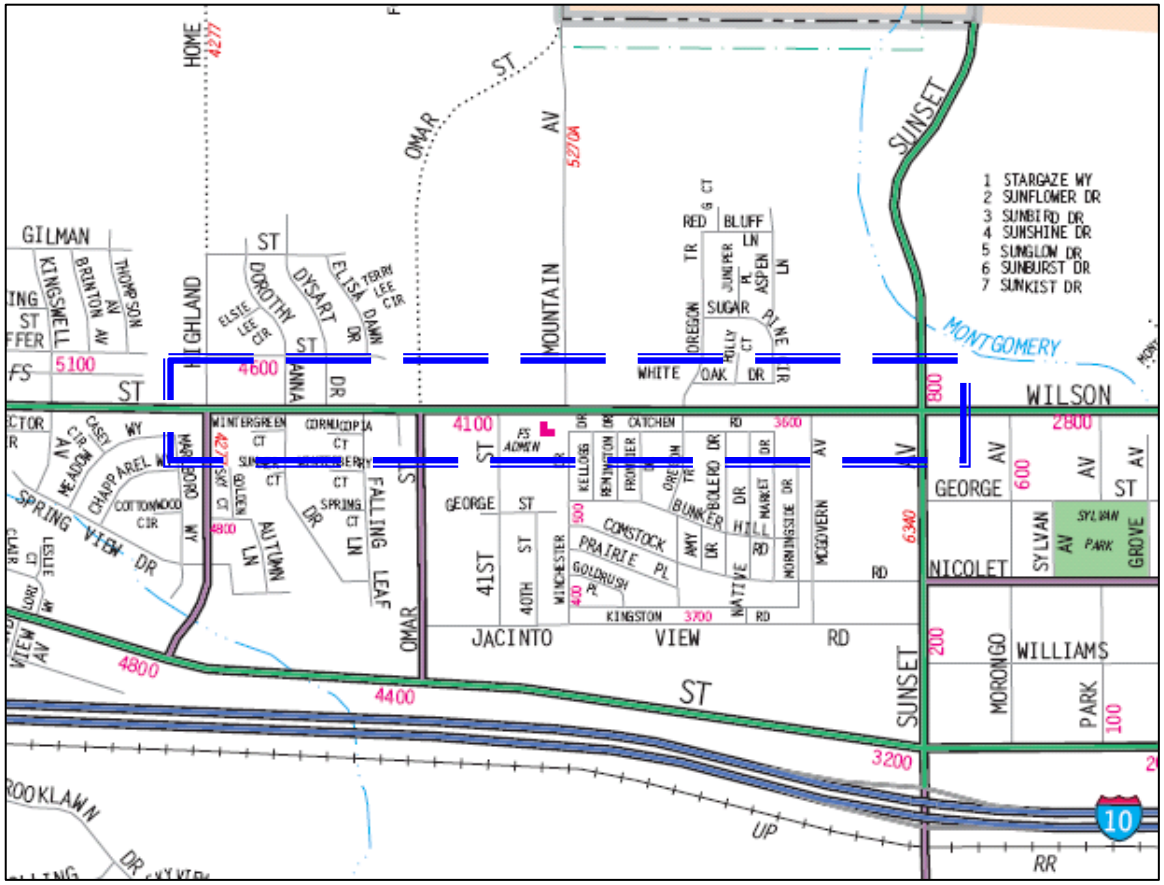
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**45 mph**

(*) - No recent collision records available

ZONE "36"

Radar Enforceable Speed Zone
Zone 36
Wilson Street – From Highland Home Rd to Sunset Ave



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Wilson Street**
Segment: **From Highland Home Road to Sunset Avenue**
DIRECTION: **EB** DATE: 8/29/11
POSTED SPEED LIMITS: **45 MPH** TIME: 9:30 - 10:30
WEATHER: Clear

50th Percentile Speed			44.0
85th Percentile Speed			49.0
Number of Vehicles Observed			100
Average Speed			44
Range of Speeds	32	to	55

10 MPH Pace Speed	40	to	49
Percent in Pace Speed			74
Percent over Pace Speed			14
Percent under Pace Speed			12

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	1	1	1
33	0	0	1
34	0	0	1
35	2	2	3
36	1	1	4
37	2	2	6
38	4	4	10
39	2	2	12
40	8	8	20
41	6	6	26
42	11	11	37
43	10	10	47
44	7	7	54
45	10	10	64
46	8	8	72
47	4	4	76
48	7	7	83
49	3	3	86
50	3	3	89
51	5	5	94
52	2	2	96
53	1	1	97
54	1	1	98
55	2	2	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
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81	0	0	100
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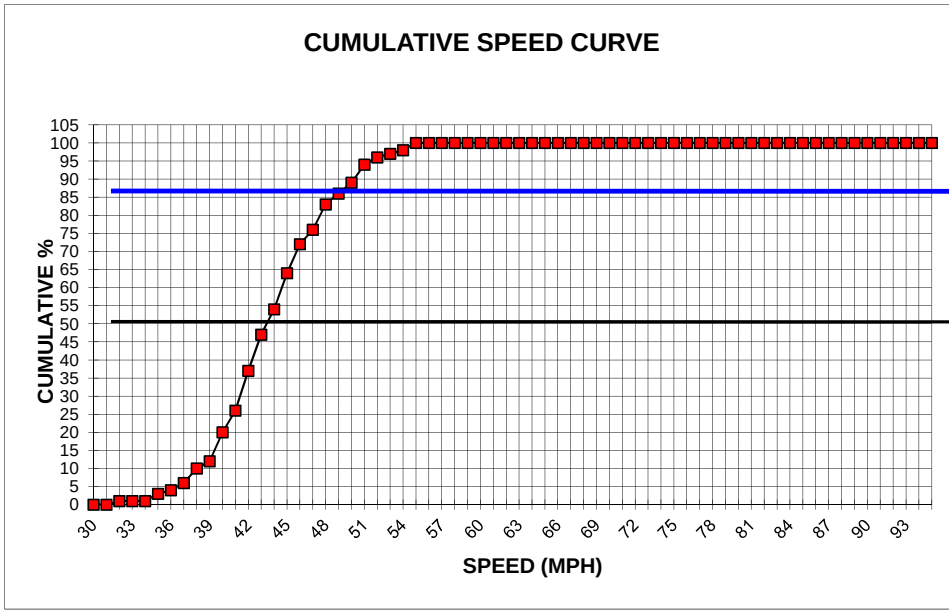
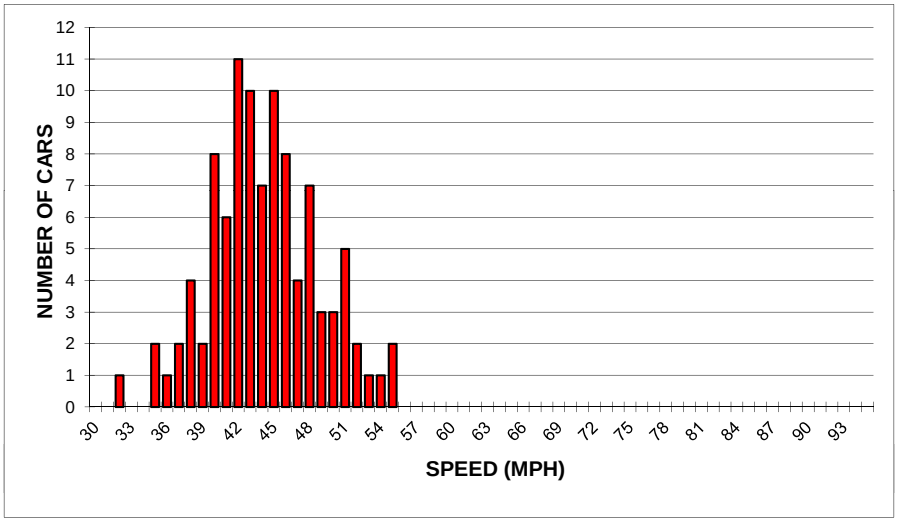
84	0	0	100
85	0	0	100





Loc 36 EB

SPEED ZONE SURVEY SHEET

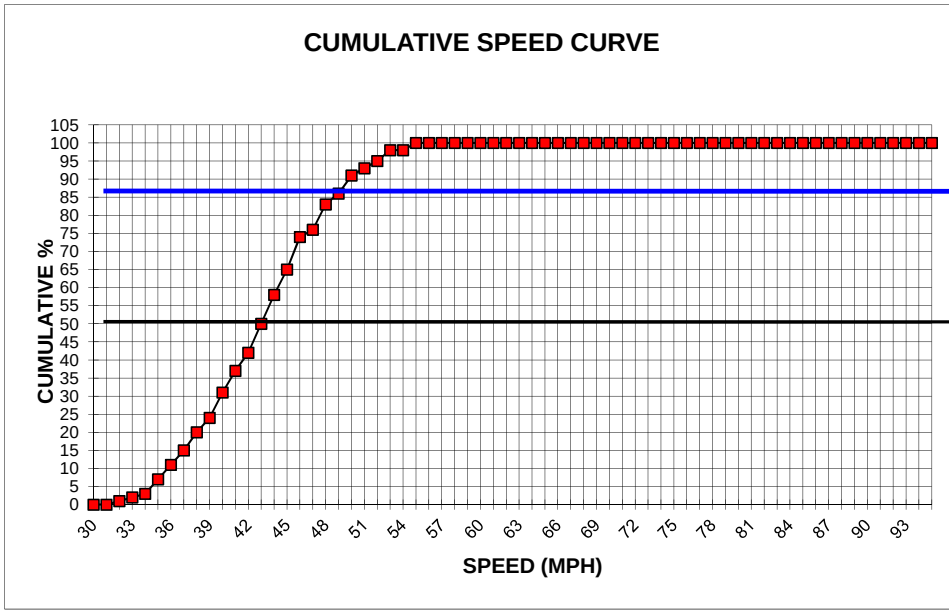
City of Banning
Public Works Department
Kahono Oei, City Engineer

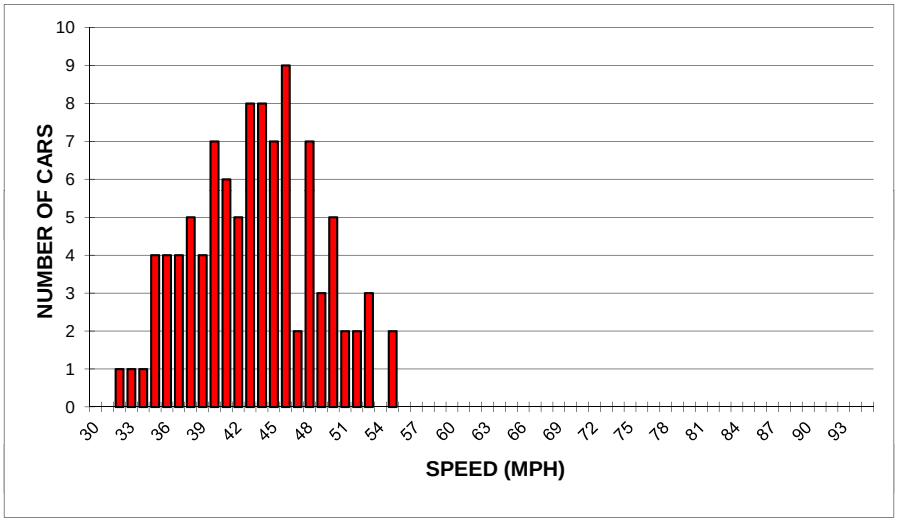
Roadway: **Wilson Street**
Segment: **From Highland Home Road to Sunset Avenue**
DIRECTION: **WB** DATE: 8/29/11
POSTED SPEED LIMITS: **45 MPH** TIME: 11:00 - 12:00
WEATHER: Clear

50th Percentile Speed			43.0
85th Percentile Speed			49.0
Number of Vehicles Observed			100
Average Speed			43
Range of Speeds	32	to	55

10 MPH Pace Speed	37	to	46
Percent in Pace Speed			63
Percent over Pace Speed			26
Percent under Pace Speed			11

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	1	1	1
33	1	1	2
34	1	1	3
35	4	4	7
36	4	4	11
37	4	4	15
38	5	5	20
39	4	4	24
40	7	7	31
41	6	6	37
42	5	5	42
43	8	8	50
44	8	8	58
45	7	7	65
46	9	9	74
47	2	2	76
48	7	7	83
49	3	3	86
50	5	5	91
51	2	2	93
52	2	2	95
53	3	3	98
54	0	0	98
55	2	2	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 36 WB

SPEED ZONE SURVEY SHEET

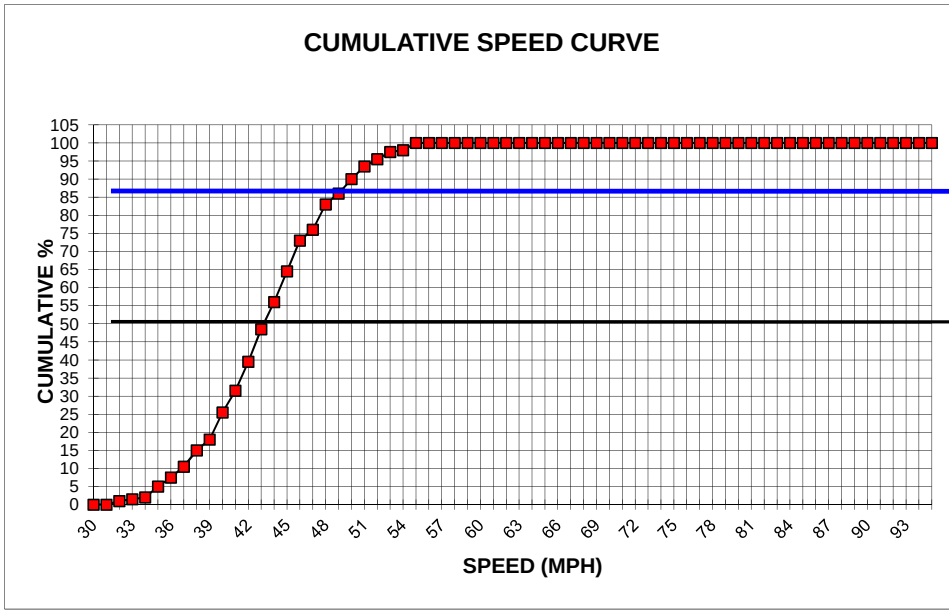
City of Banning
Public Works Department
Kahono Oei, City Engineer

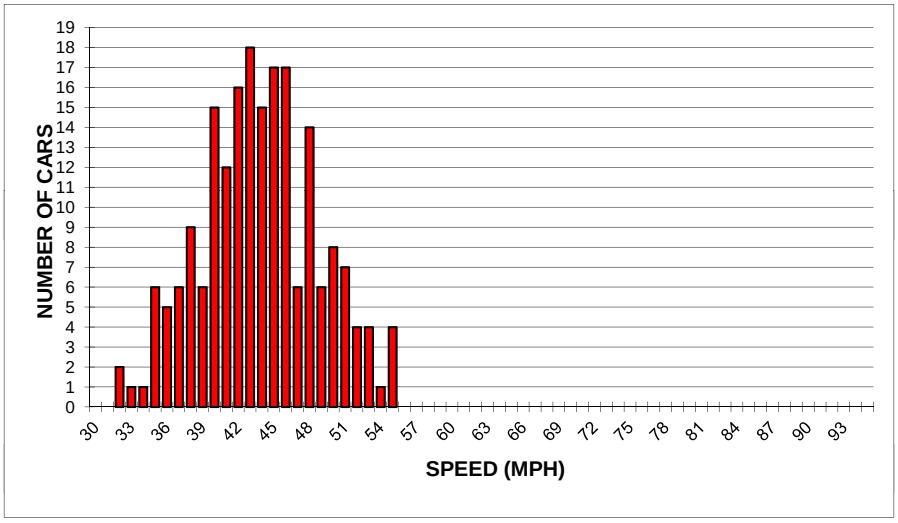
Street **Wilson Street**
Segment: **From Highland Home Road to Sunset Avenue**
DIRECTION: **Both Directions** DATE: 8/29/11
POSTED SPEED LIMITS: **45 MPH** TIME: 9:30 - 10:30
WEATHER: Clear

50th Percentile Speed			44.0
85th Percentile Speed			49.0
Number of Vehicles Observed			200
Average Speed			44
Range of Speeds	32	to	55

10 MPH Pace Speed	39	to	48
Percent in Pace Speed			68
Percent over Pace Speed			17
Percent under Pace Speed			15

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	0	0	0
32	2	1	1
33	1	1	2
34	1	1	2
35	6	3	5
36	5	3	8
37	6	3	11
38	9	5	15
39	6	3	18
40	15	8	26
41	12	6	32
42	16	8	40
43	18	9	49
44	15	8	56
45	17	9	65
46	17	9	73
47	6	3	76
48	14	7	83
49	6	3	86
50	8	4	90
51	7	4	94
52	4	2	96
53	4	2	98
54	1	1	98
55	4	2	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 36 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "37"
Wilson Street - From Sunset Ave to 16th St

Location: Wilson Street - From Sunset Ave to 16th St	Original Limits: Sunset Ave to San Gorgonio Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 8/29/2011	85th %tile Speed: 46 mph
Posted Speed Limit: 35 mph	Average Speed: 41 mph
10 mph Pace Speed: 36 - 45 mph	Percent in Pace Speed: 68%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 10	At Intersections: 6	Mid-block: 4
Collision Rate: 3.20 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

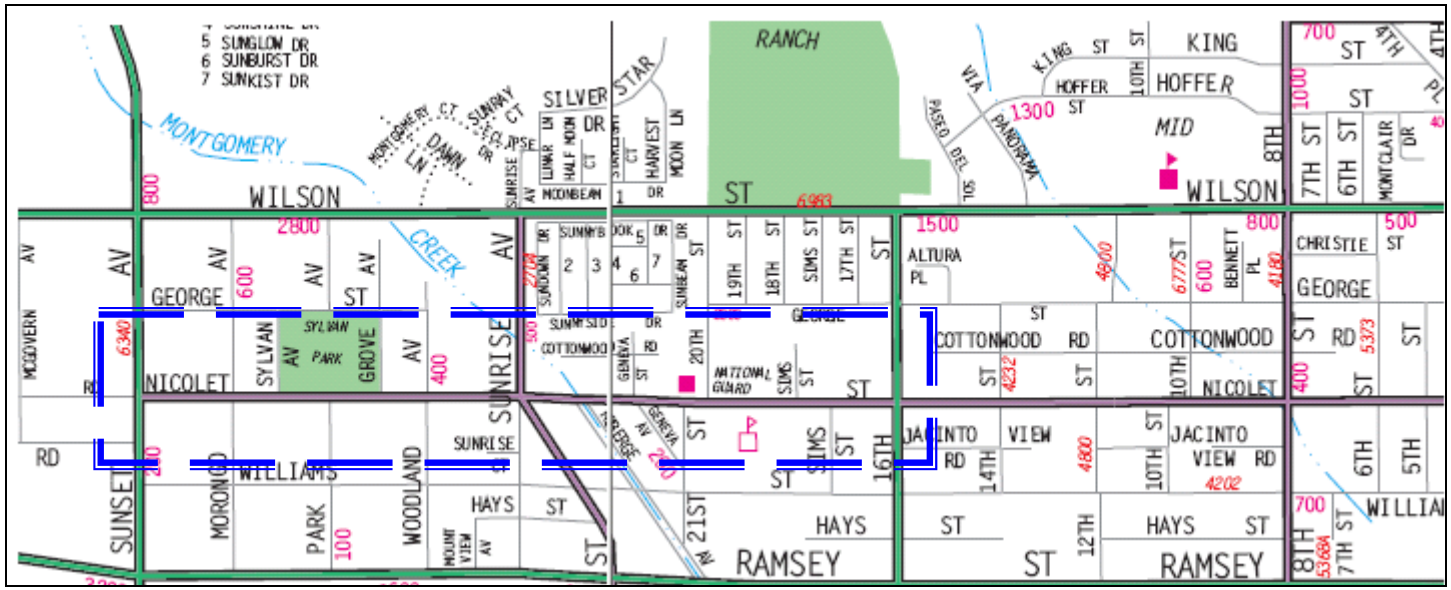
Roadway:	1.5 mile long, 64-ft wide, straight roadway
Traffic:	5,700 ADT
Roadside:	Urban residential mixed with open/agriculture
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit: **45 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 37
Wilson Street – From Sunset Ave to 16th St



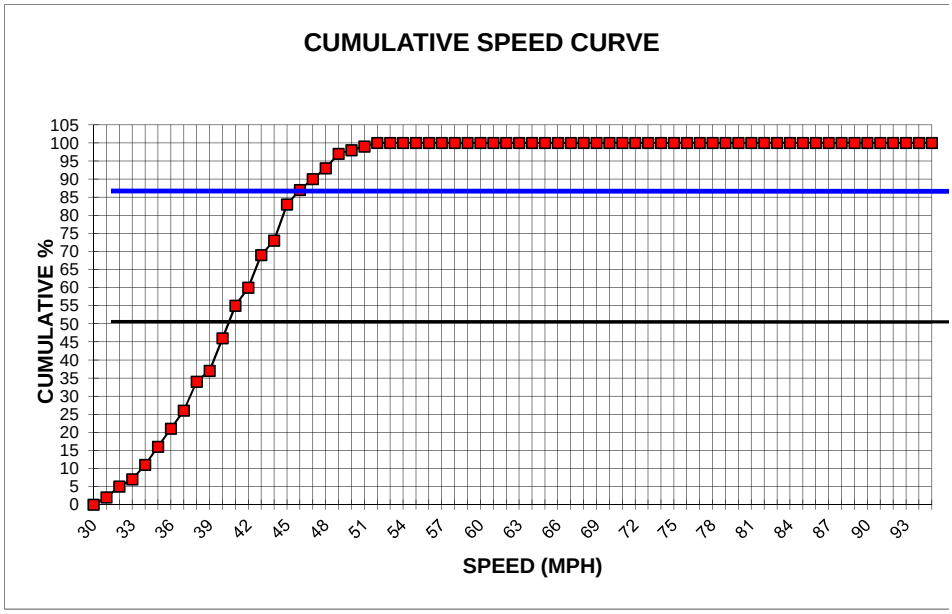
SPEED ZONE SURVEY SHEET

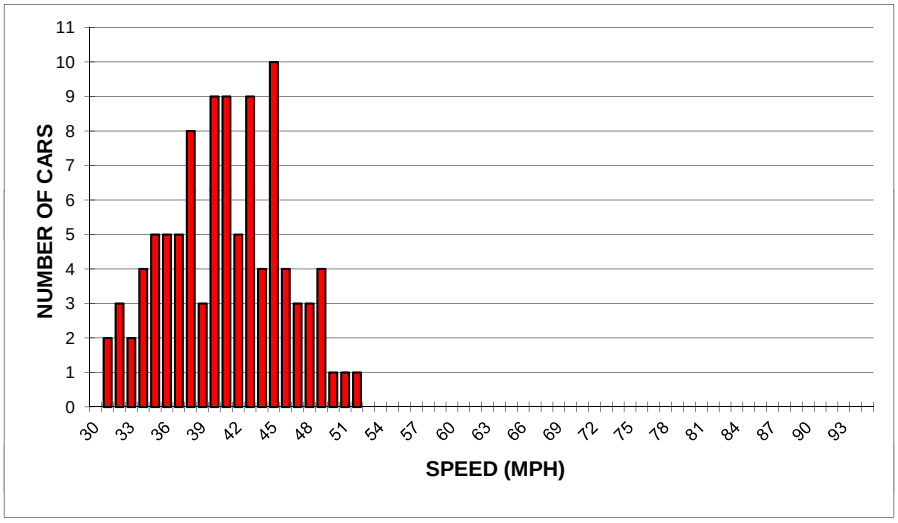
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Wilson Street**
Segment: **From Sunset Avenue to 16th Street**
DIRECTION: **EB** DATE: 8/29/11
POSTED SPEED LIMITS: **35 MPH** TIME: 15:00 - 16:00
WEATHER: Clear

50th Percentile Speed	41.0	10 MPH Pace Speed	36 to 45
85th Percentile Speed	46.0	Percent in Pace Speed	67
Number of Vehicles Observed	100	Percent over Pace Speed	17
Average Speed	41	Percent under Pace Speed	16
Range of Speeds	31 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	0	0	0
31	2	2	2
32	3	3	5
33	2	2	7
34	4	4	11
35	5	5	16
36	5	5	21
37	5	5	26
38	8	8	34
39	3	3	37
40	9	9	46
41	9	9	55
42	5	5	60
43	9	9	69
44	4	4	73
45	10	10	83
46	4	4	87
47	3	3	90
48	3	3	93
49	4	4	97
50	1	1	98
51	1	1	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 37 EB

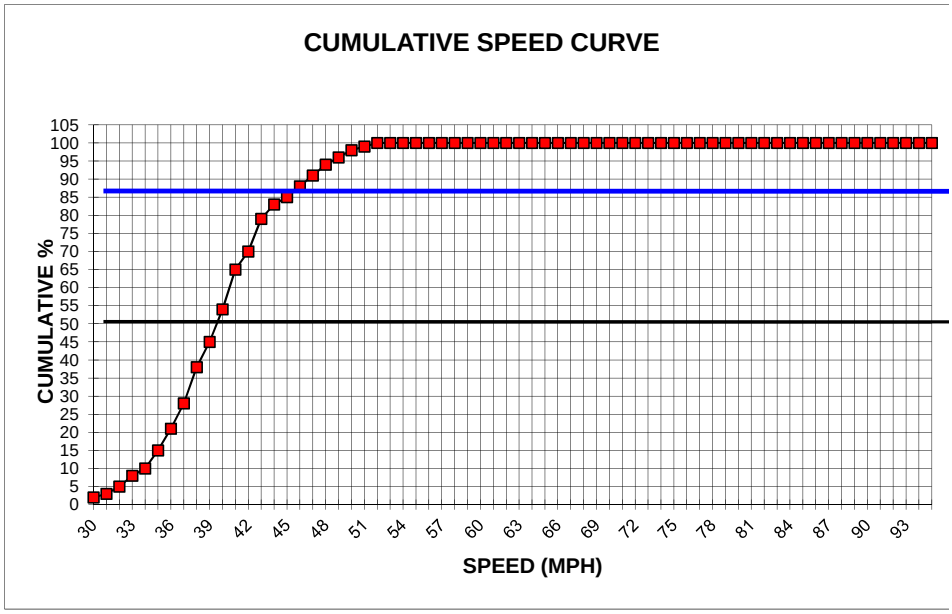
SPEED ZONE SURVEY SHEET

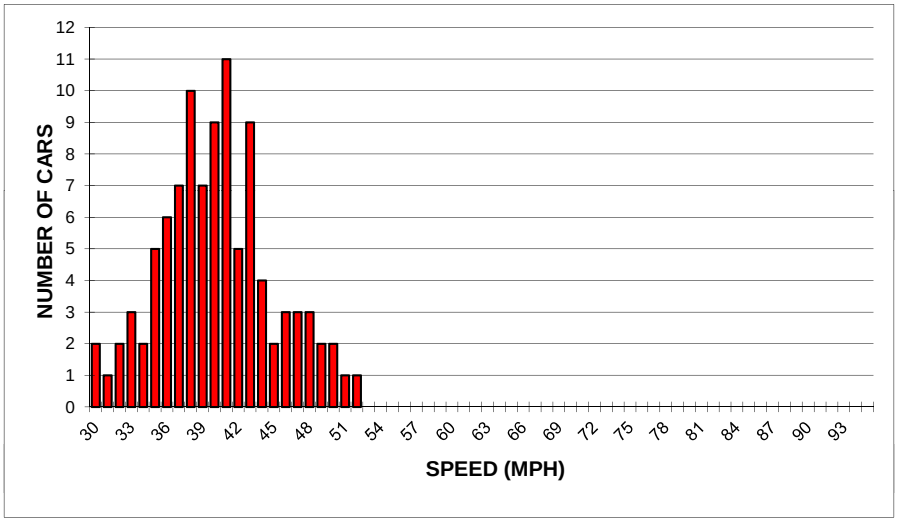
City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Wilson Street**
Segment: **From Sunset Avenue to 16th Street**
DIRECTION: **WB** DATE: 8/29/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed	40.0	10 MPH Pace Speed	35 to 44
85th Percentile Speed	45.0	Percent in Pace Speed	73
Number of Vehicles Observed	100	Percent over Pace Speed	17
Average Speed	40	Percent under Pace Speed	10
Range of Speeds	30 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	2	2	2
31	1	1	3
32	2	2	5
33	3	3	8
34	2	2	10
35	5	5	15
36	6	6	21
37	7	7	28
38	10	10	38
39	7	7	45
40	9	9	54
41	11	11	65
42	5	5	70
43	9	9	79
44	4	4	83
45	2	2	85
46	3	3	88
47	3	3	91
48	3	3	94
49	2	2	96
50	2	2	98
51	1	1	99
52	1	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 37 WB

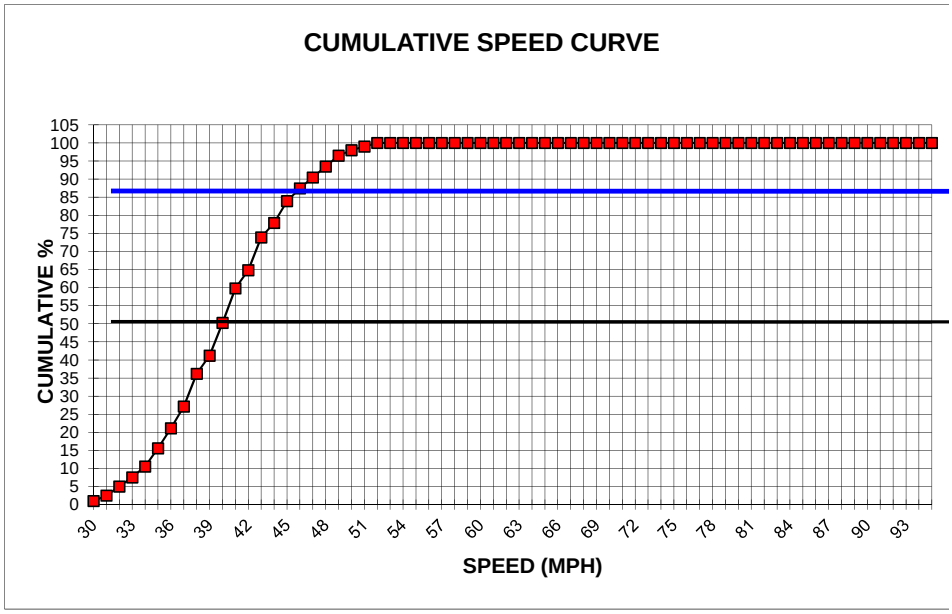
SPEED ZONE SURVEY SHEET

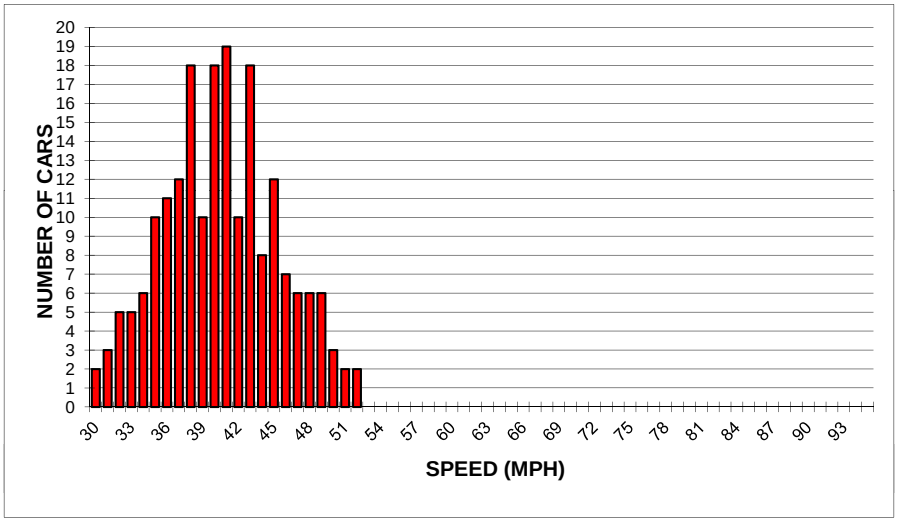
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Wilson Street**
Segment: **From Sunset Avenue to 16th Street**
DIRECTION: **Both Directions** DATE: 8/29/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 16:00
WEATHER: Clear

50th Percentile Speed	40.0	10 MPH Pace Speed	36 to 45
85th Percentile Speed	46.0	Percent in Pace Speed	68
Number of Vehicles Observed	199	Percent over Pace Speed	16
Average Speed	41	Percent under Pace Speed	16
Range of Speeds	30 to 52		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
30	2	1	1
31	3	2	3
32	5	3	5
33	5	3	8
34	6	3	11
35	10	5	16
36	11	6	21
37	12	6	27
38	18	9	36
39	10	5	41
40	18	9	50
41	19	10	60
42	10	5	65
43	18	9	74
44	8	4	78
45	12	6	84
46	7	4	87
47	6	3	90
48	6	3	93
49	6	3	96
50	3	2	98
51	2	1	99
52	2	1	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100
81	0	0	100
82	0	0	100
83	0	0	100
84	0	0	100
85	0	0	100





Loc 37 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "38"
Wilson Street - From 16th St to San Gorgonio Ave

Location: Wilson Street - From 16th St to San Gorgonio Ave	Original Limits: Sunset Ave to San Gorgonio Ave

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/1/2011	85th %tile Speed: 36 mph
Posted Speed Limit: 35 mph	Average Speed: 32 mph
10 mph Pace Speed: 27 - 36 mph	Percent in Pace Speed: 77%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 2	Mid-block: 0
Collision Rate: 1.92 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 64-ft wide, straight roadway
Traffic:	5,700 ADT
Roadside:	Urban residential
Not Readily Apparent to Driver:	

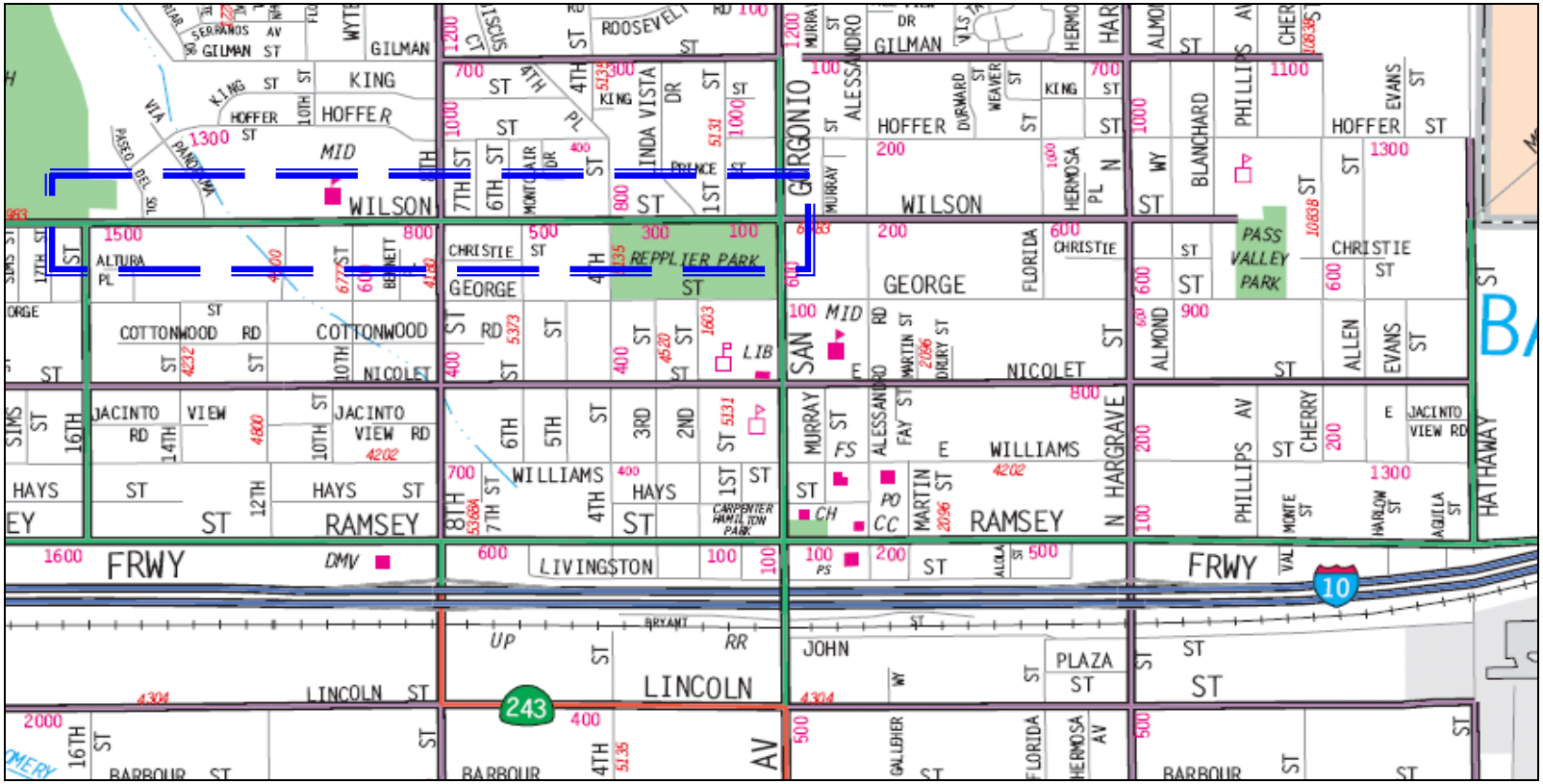
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "38"

Radar Enforceable Speed Zone
Zone 38
Wilson St – From 16TH St To San Gornonio Ave



Zone 38

SPEED ZONE SURVEY SHEET

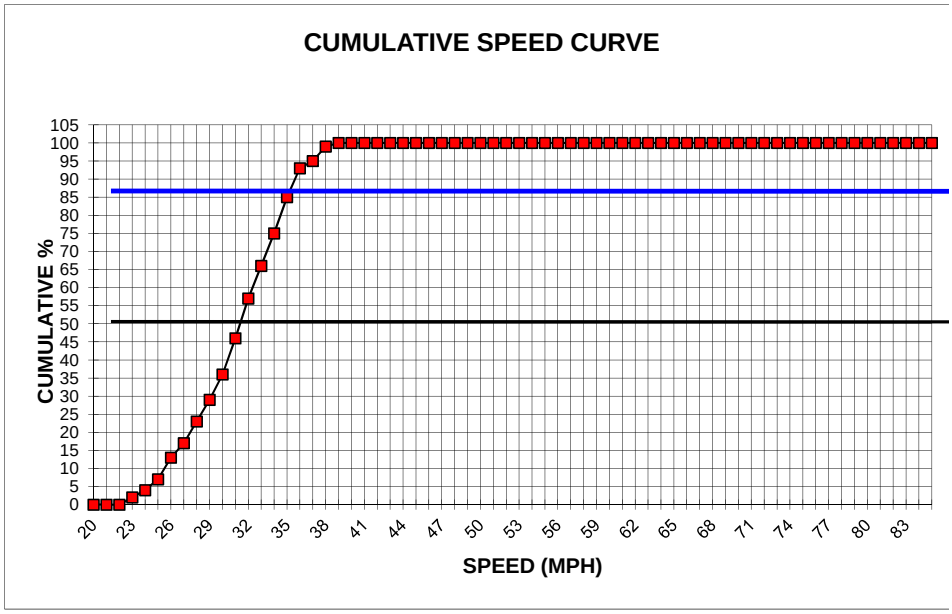
City of Banning
Public Works Department
Kahono Oei, City Engineer

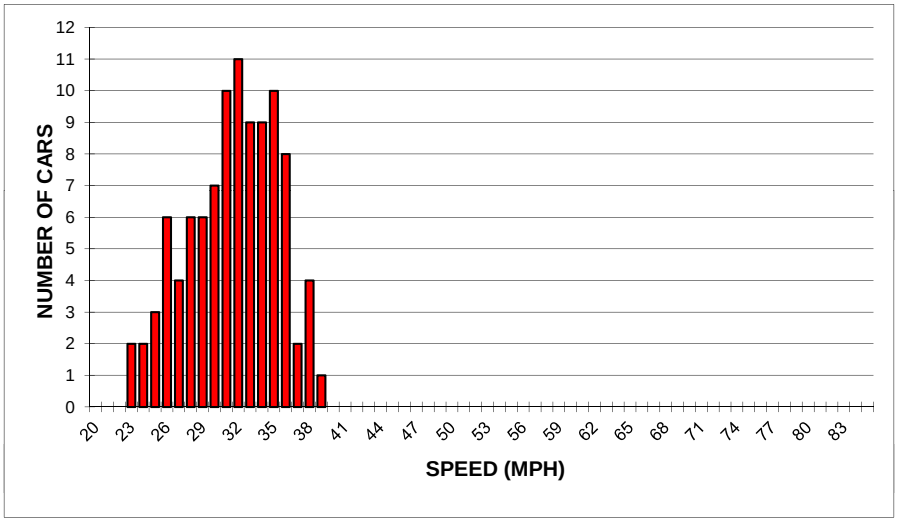
Street **Wilson Street**
Segment: **From 16th Street to San Gorgonio Avenue**
DIRECTION: **EB** DATE: 9/1/11
POSTED SPEED LIMITS: **35 MPH** TIME: 9:15 - 10:15
WEATHER: Clear

50th Percentile Speed			32.0
85th Percentile Speed			35.0
Number of Vehicles Observed			100
Average Speed			32
Range of Speeds	23	to	39

10 MPH Pace Speed	27	to	36
Percent in Pace Speed			80
Percent over Pace Speed			7
Percent under Pace Speed			13

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	2	2	2
24	2	2	4
25	3	3	7
26	6	6	13
27	4	4	17
28	6	6	23
29	6	6	29
30	7	7	36
31	10	10	46
32	11	11	57
33	9	9	66
34	9	9	75
35	10	10	85
36	8	8	93
37	2	2	95
38	4	4	99
39	1	1	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 38 EB

SPEED ZONE SURVEY SHEET

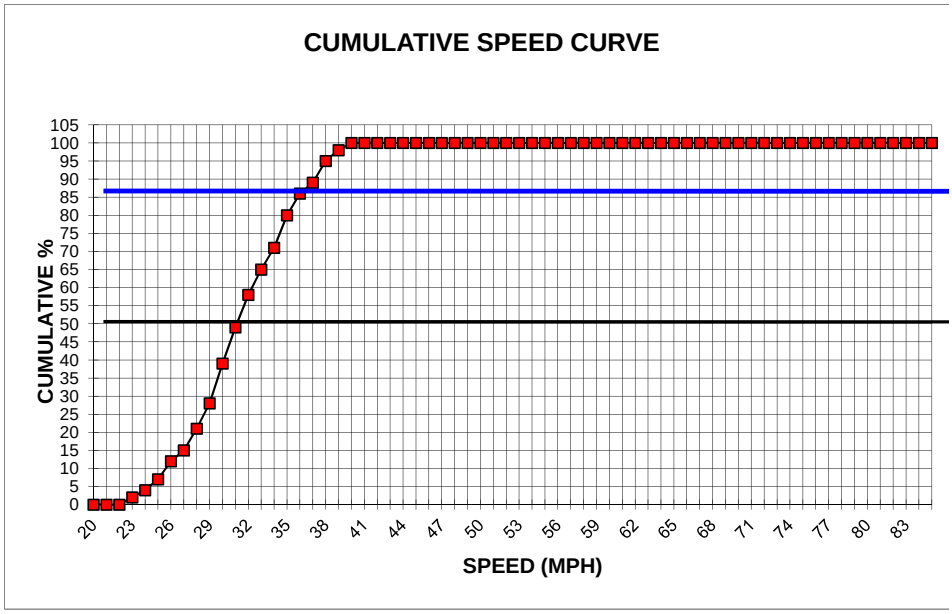
City of Banning
Public Works Department
Kahono Oei, City Engineer

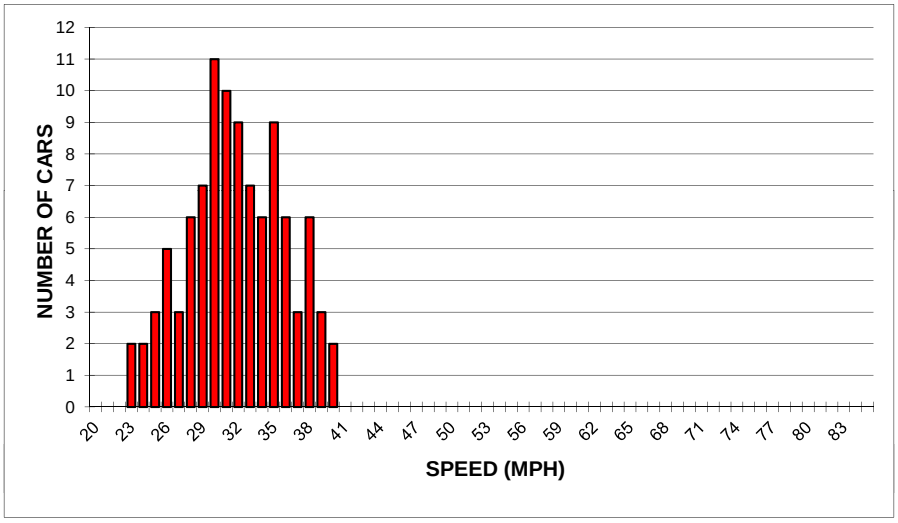
Roadway: **Wilson Street**
Segment: **From 16th Street to San Gorgonio Avenue**
DIRECTION: **WB** DATE: 9/1/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:30 - 12:00
WEATHER: Clear

50th Percentile Speed			32.0
85th Percentile Speed			36.0
Number of Vehicles Observed			100
Average Speed			32
Range of Speeds	23	to	40

10 MPH Pace Speed	27	to	36
Percent in Pace Speed			74
Percent over Pace Speed			14
Percent under Pace Speed			12

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	2	2	2
24	2	2	4
25	3	3	7
26	5	5	12
27	3	3	15
28	6	6	21
29	7	7	28
30	11	11	39
31	10	10	49
32	9	9	58
33	7	7	65
34	6	6	71
35	9	9	80
36	6	6	86
37	3	3	89
38	6	6	95
39	3	3	98
40	2	2	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 38 WB

SPEED ZONE SURVEY SHEET

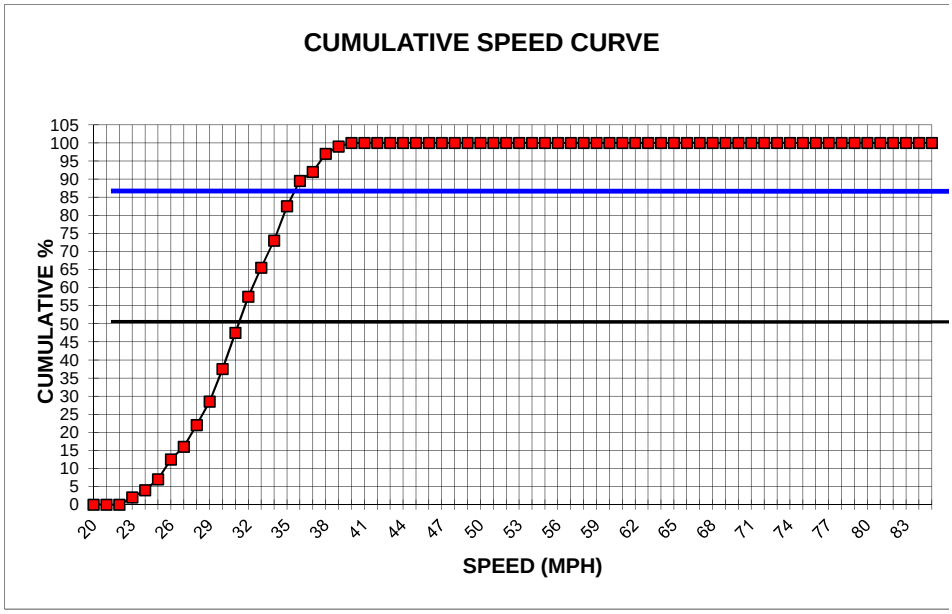
City of Banning
Public Works Department
Kahono Oei, City Engineer

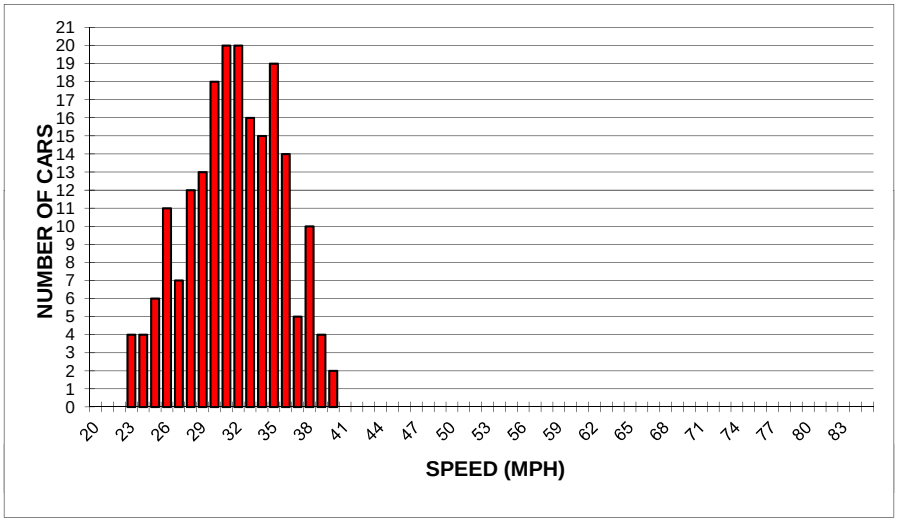
Street **Wilson Street**
Segment: **From 16th Street to San Gorgonio Avenue**
DIRECTION: **Both Directions** DATE: 9/1/11
POSTED SPEED LIMITS: **35 MPH** TIME: 9:15 - 12:00
WEATHER: Clear

50th Percentile Speed			32.0
85th Percentile Speed			36.0
Number of Vehicles Observed			200
Average Speed			32
Range of Speeds	23	to	40

10 MPH Pace Speed	27	to	36
Percent in Pace Speed			77
Percent over Pace Speed			11
Percent under Pace Speed			13

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	4	2	2
24	4	2	4
25	6	3	7
26	11	6	13
27	7	4	16
28	12	6	22
29	13	7	29
30	18	9	38
31	20	10	48
32	20	10	58
33	16	8	66
34	15	8	73
35	19	10	83
36	14	7	90
37	5	3	92
38	10	5	97
39	4	2	99
40	2	1	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 38 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "39"
Wilson Street - From Gorgonio Ave to Hargrave St

Location: Wilson Street - From San Gorgonio Ave to Hargrave St	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/1/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 35 mph	Average Speed: 33 mph
10 mph Pace Speed: 27 - 36 mph	Percent in Pace Speed: 69%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 2	Mid-block: 0
Collision Rate: 5.22 (MVM)	State Avg. Rate: 4.95 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.5 mile long, 64-ft wide, straight roadway
Traffic:	2,100 ADT
Roadside:	Urban residential with open/agriculture
Not Readily Apparent to Driver:	

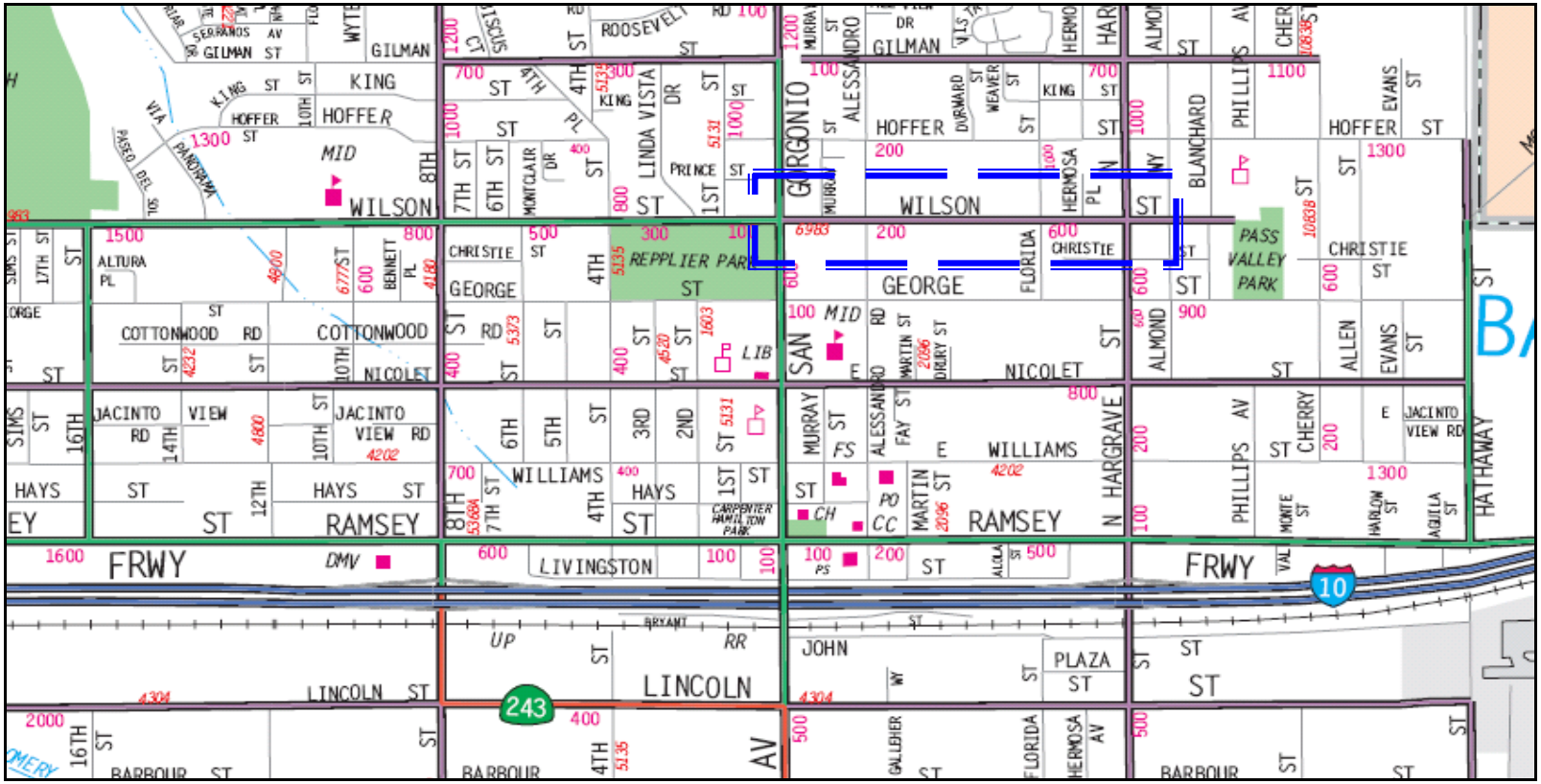
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "39"

Radar Enforceable Speed Zone
Zone 39
Wilson St – From San Gorgonio Ave to Hargrave St



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Wilson Street**
Segment: **From San Gorgonio Avenue to Hargrave Street**
DIRECTION: **EB** DATE: 9/1/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:15 - 14:30
WEATHER: Clear

50th Percentile Speed			32.0
85th Percentile Speed			37.0
Number of Vehicles Observed			75
Average Speed			32
Range of Speeds	22	to	43

10 MPH Pace Speed	27	to	36
Percent in Pace Speed			71
Percent over Pace Speed			19
Percent under Pace Speed			11

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	1	1	1
23	1	1	3
24	3	4	7
25	1	1	8
26	2	3	11
27	4	5	16
28	5	7	23
29	4	5	28
30	5	7	35
31	6	8	43
32	7	9	52
33	6	8	60
34	5	7	67
35	5	7	73
36	6	8	81
37	3	4	85
38	4	5	91
39	1	1	92
40	2	3	95
41	2	3	97
42	1	1	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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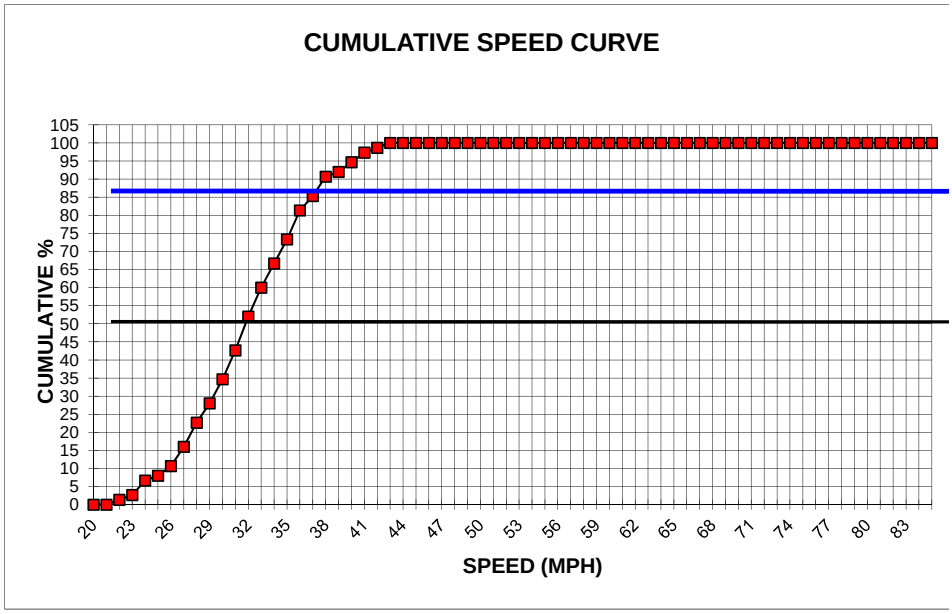
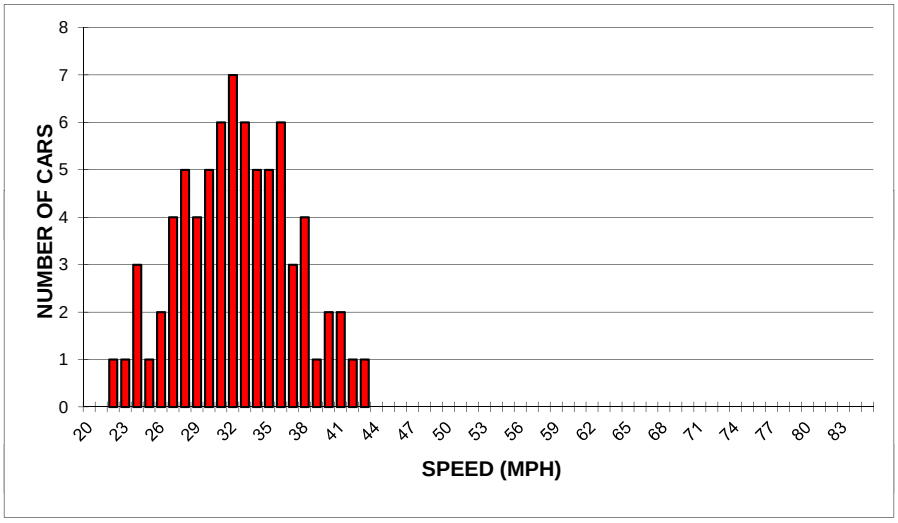
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 39 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Wilson Street**
Segment: **From San Gorgonio Avenue to Hargrave Street**
DIRECTION: **WB** DATE: 9/1/11
POSTED SPEED LIMITS: **35 MPH** TIME: 14:45 - 15:45
WEATHER: Clear

50th Percentile Speed			33.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			33
Range of Speeds	23	to	44

10 MPH Pace Speed	29	to	38
Percent in Pace Speed			69
Percent over Pace Speed			15
Percent under Pace Speed			16

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	1	1	1
24	2	3	4
25	1	1	5
26	3	4	9
27	2	3	12
28	3	4	16
29	5	7	23
30	4	5	28
31	5	7	35
32	6	8	43
33	7	9	52
34	5	7	59
35	5	7	65
36	8	11	76
37	3	4	80
38	4	5	85
39	3	4	89
40	2	3	92
41	1	1	93
42	2	3	96
43	2	3	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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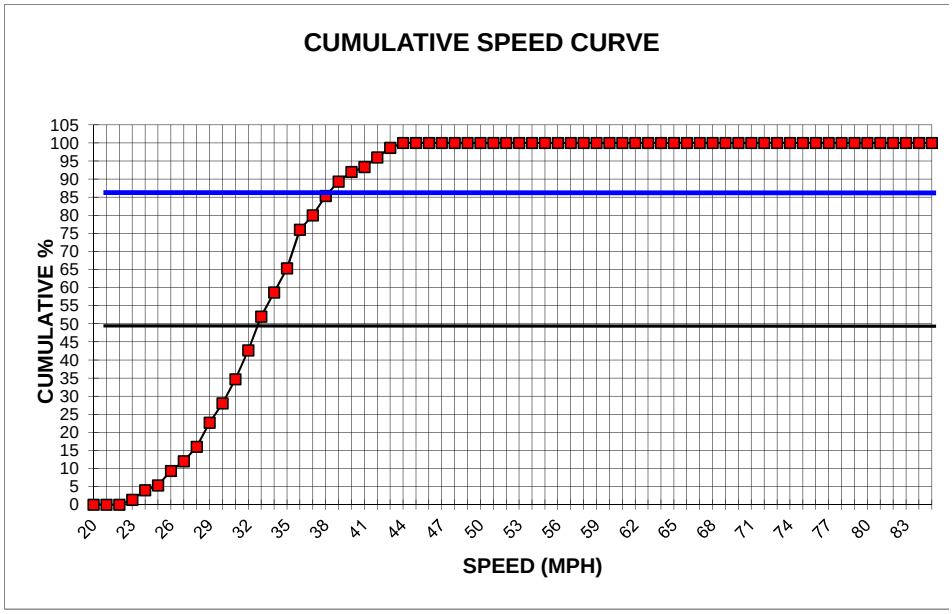
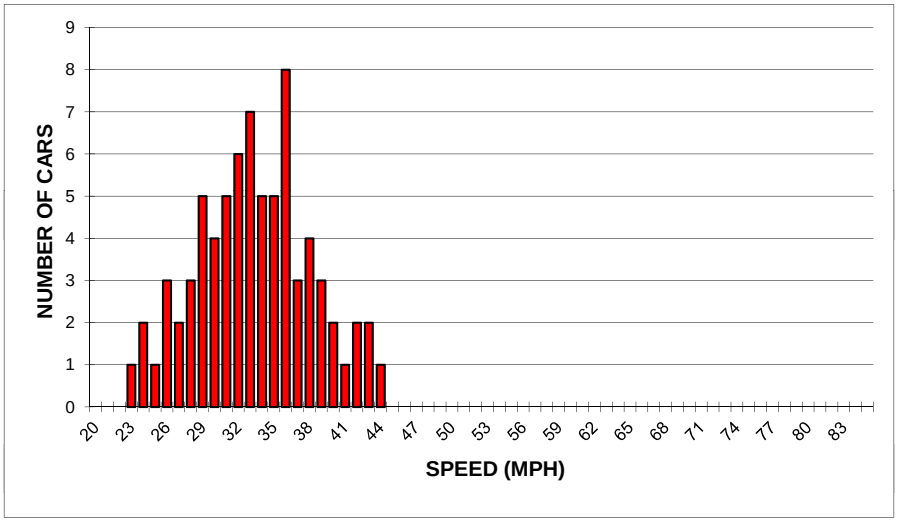
74	0	0	100
75	0	0	100





Loc 39 WB

SPEED ZONE SURVEY SHEET

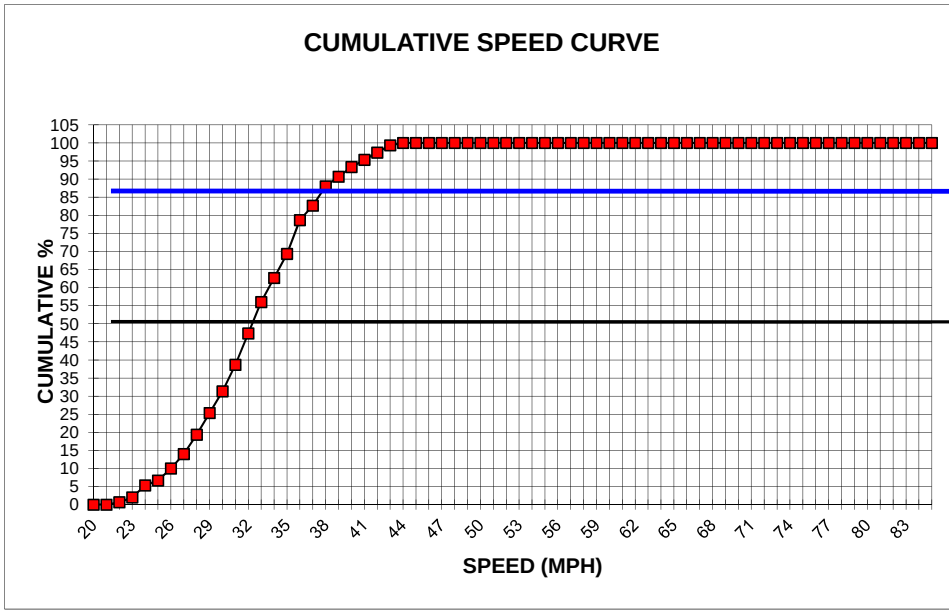
City of Banning
Public Works Department
Kahono Oei, City Engineer

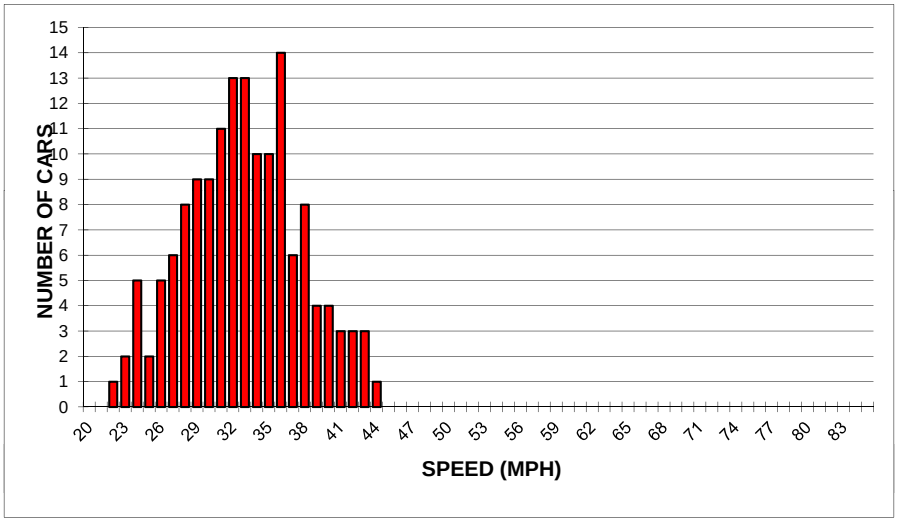
Street **Wilson Street**
Segment: **From San Gorgonio Avenue to Hargrave Street**
DIRECTION: **Both Directions** DATE: 9/1/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:15 - 15:45
WEATHER: Clear

50th Percentile Speed			33.0
85th Percentile Speed			38.0
Number of Vehicles Observed			150
Average Speed			33
Range of Speeds	22	to	44

10 MPH Pace Speed	27	to	36
Percent in Pace Speed			69
Percent over Pace Speed			21
Percent under Pace Speed			10

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	1	1	1
23	2	1	2
24	5	3	5
25	2	1	7
26	5	3	10
27	6	4	14
28	8	5	19
29	9	6	25
30	9	6	31
31	11	7	39
32	13	9	47
33	13	9	56
34	10	7	63
35	10	7	69
36	14	9	79
37	6	4	83
38	8	5	88
39	4	3	91
40	4	3	93
41	3	2	95
42	3	2	97
43	3	2	99
44	1	1	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 39 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "40"
Sun Lakes Boulevard - From Country Club Drive to Highland Home Rd

Location: Sun Lakes Blvd - From Country Club Drive to Highland Home Rd	Original Limits: From Highland Springs Ave to Twin Hill Dr

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/6/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 35 mph	Average Speed: 34 mph
10 mph Pace Speed: 28 - 37 mph	Percent in Pace Speed: 74%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 0	At Intersections: 0	Mid-block 0
Collision Rate: 0.00 (MVM)	State Avg. Rate: 3.35 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

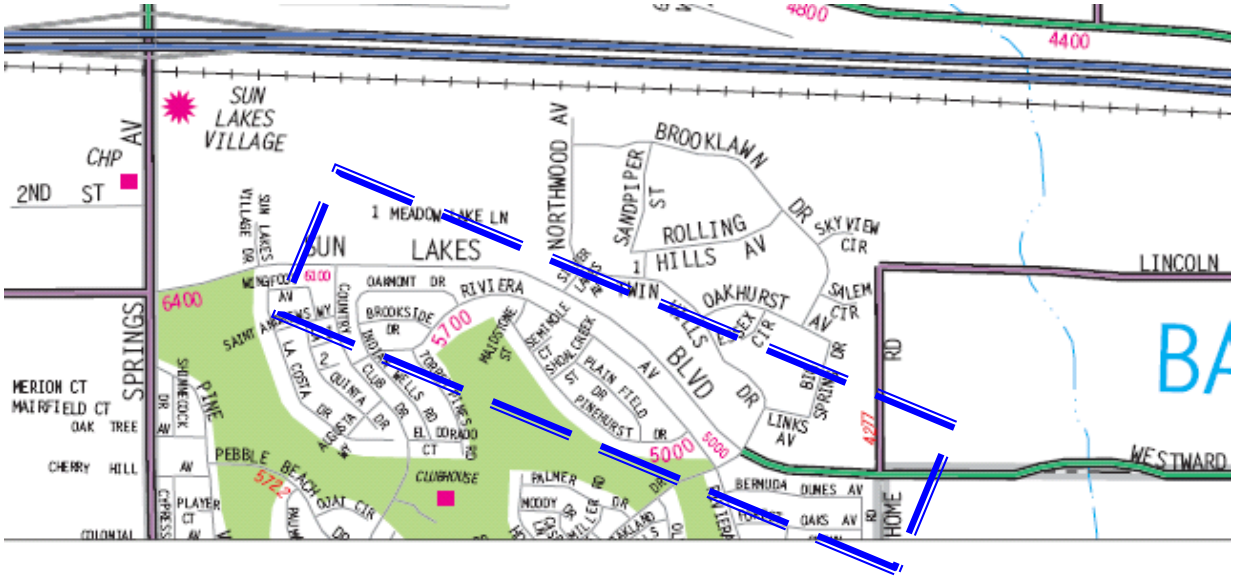
Roadway:	1.0 mile long, 86-ft wide with raised median, straight/curved roadway
Traffic:	5,400 ADT
Roadside:	Gated residential communities with limited entrances/limits
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 40
Sun Lakes Blvd – From Country Club Dr to Highland Home Rd



SPEED ZONE SURVEY SHEET

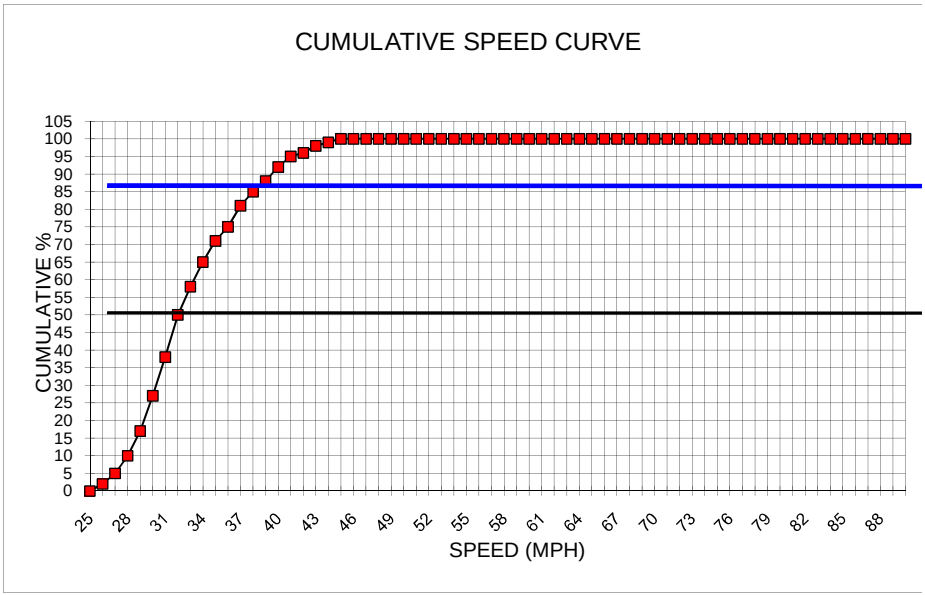
City of Banning
Public Works Department
Kahono Oei, City Engineer

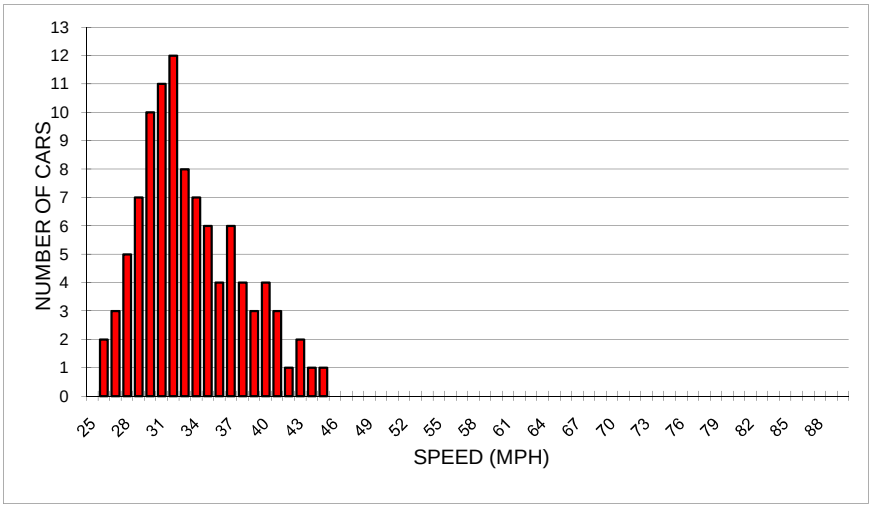
Street: Sun Lakes Boulevard
Segment: From Country Club Drive to Highland Home Road
DIRECTION: EB
DATE: 9/6/11
POSTED SPEED LIMITS: 35 MPH
TIME: 09:00 - 10:30
WEATHER: Clear

50th Percentile Speed			32.0
85th Percentile Speed			38.0
Number of Vehicles Observed			100
Average Speed			33
Range of Speeds	26	to	45

10 MPH Pace Speed	28	to	37
Percent in Pace Speed			76
Percent over Pace Speed			19
Percent under Pace Speed			5

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	2	2	2
27	3	3	5
28	5	5	10
29	7	7	17
30	10	10	27
31	11	11	38
32	12	12	50
33	8	8	58
34	7	7	65
35	6	6	71
36	4	4	75
37	6	6	81
38	4	4	85
39	3	3	88
40	4	4	92
41	3	3	95
42	1	1	96
43	2	2	98
44	1	1	99
45	1	1	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 40 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Sun Lakes Boulevard**
Segment: **From Country Club Drive to Highland Home Road**
DIRECTION: **WB** DATE: 9/6/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:45 - 12:00
WEATHER: Clear

50th Percentile Speed			34.0
85th Percentile Speed			38.0
Number of Vehicles Observed			100
Average Speed			34
Range of Speeds	25	to	46

10 MPH Pace Speed	30	to	39
Percent in Pace Speed			73
Percent over Pace Speed			11
Percent under Pace Speed			16

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	2	2	2
26	2	2	4
27	4	4	8
28	5	5	13
29	3	3	16
30	6	6	22
31	6	6	28
32	8	8	36
33	7	7	43
34	10	10	53
35	12	12	65
36	9	9	74
37	5	5	79
38	6	6	85
39	4	4	89
40	2	2	91
41	3	3	94
42	2	2	96
43	2	2	98
44	1	1	99
45	0	0	99
46	1	1	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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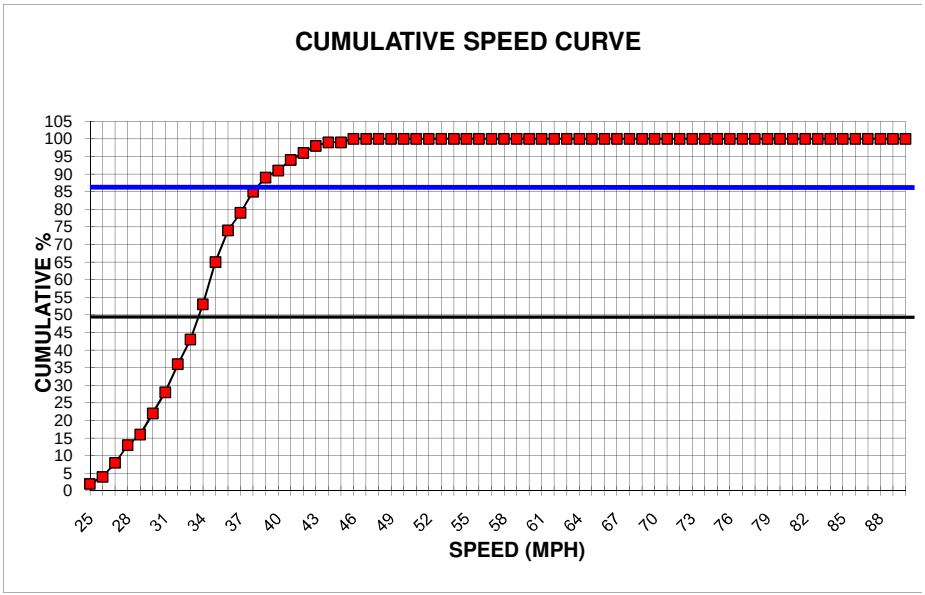
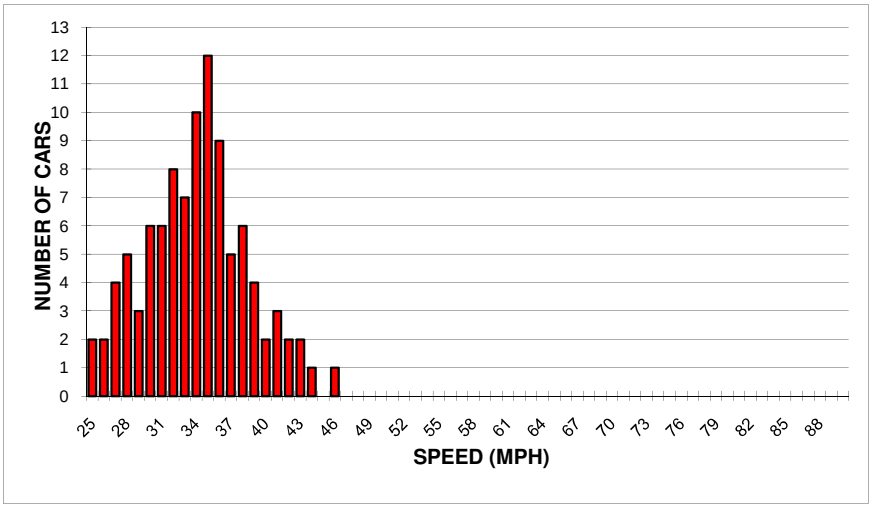
79	0	0	100
80	0	0	100





Loc 40 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Sun Lakes Boulevard**
Segment: **From Country Club Drive to Highland Home Road**
DIRECTION: **Both Directions** DATE: 9/6/11
POSTED SPEED LIMITS: **35 MPH** TIME: 09:00 - 12:00
WEATHER: Clear

50th Percentile Speed			33.0
85th Percentile Speed			38.0
Number of Vehicles Observed			200
Average Speed			34
Range of Speeds	25	to	46

10 MPH Pace Speed	28	to	37
Percent in Pace Speed			74
Percent over Pace Speed			20
Percent under Pace Speed			7

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	2	1	1
26	4	2	3
27	7	4	7
28	10	5	12
29	10	5	17
30	16	8	25
31	17	9	33
32	20	10	43
33	15	8	51
34	17	9	59
35	18	9	68
36	13	7	75
37	11	6	80
38	10	5	85
39	7	4	89
40	6	3	92
41	6	3	95
42	3	2	96
43	4	2	98
44	2	1	99
45	1	1	100
46	1	1	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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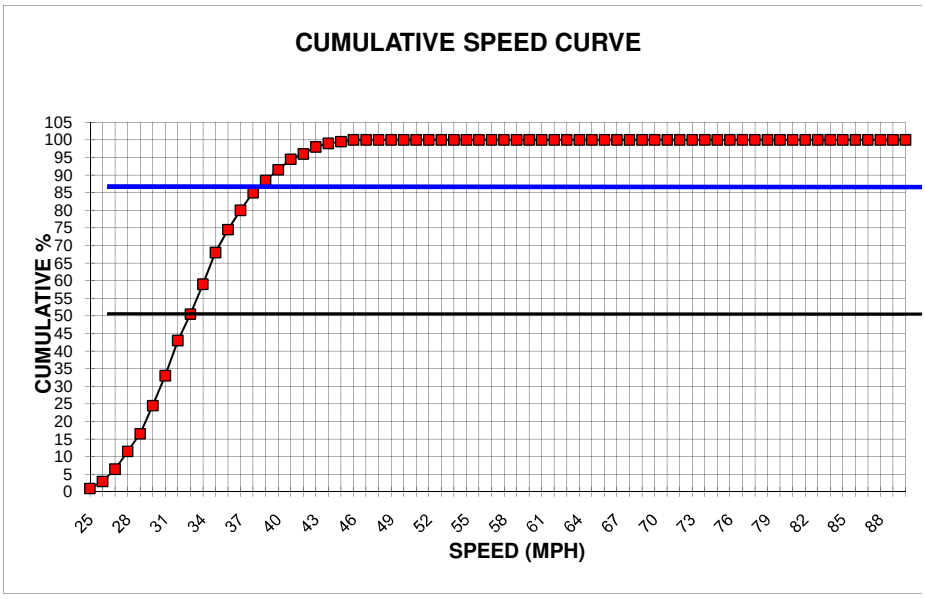
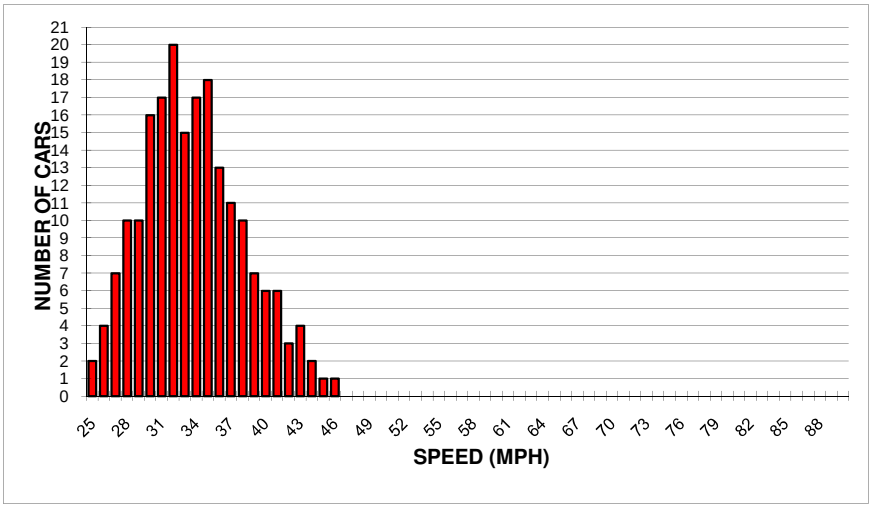
79	0	0	100
80	0	0	100





Loc 40 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "41"
Westward Avenue - From Sunset Ave to San Gorgonio Ave

Location: Westward Avenue - From Sunset Ave to San Gorgonio Ave	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/6/2011	85th %tile Speed: 38 mph
Posted Speed Limit: 35 mph	Average Speed: 33 mph
10 mph Pace Speed: 28 - 37 mph	Percent in Pace Speed: 75%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 6	At Intersections: 5	Mid-block: 1
Collision Rate: 3.91 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	2.0 mile long, 44-ft wide straight roadway
Traffic:	2,100 ADT
Roadside:	Rural residential
Not Readily Apparent to Driver:	

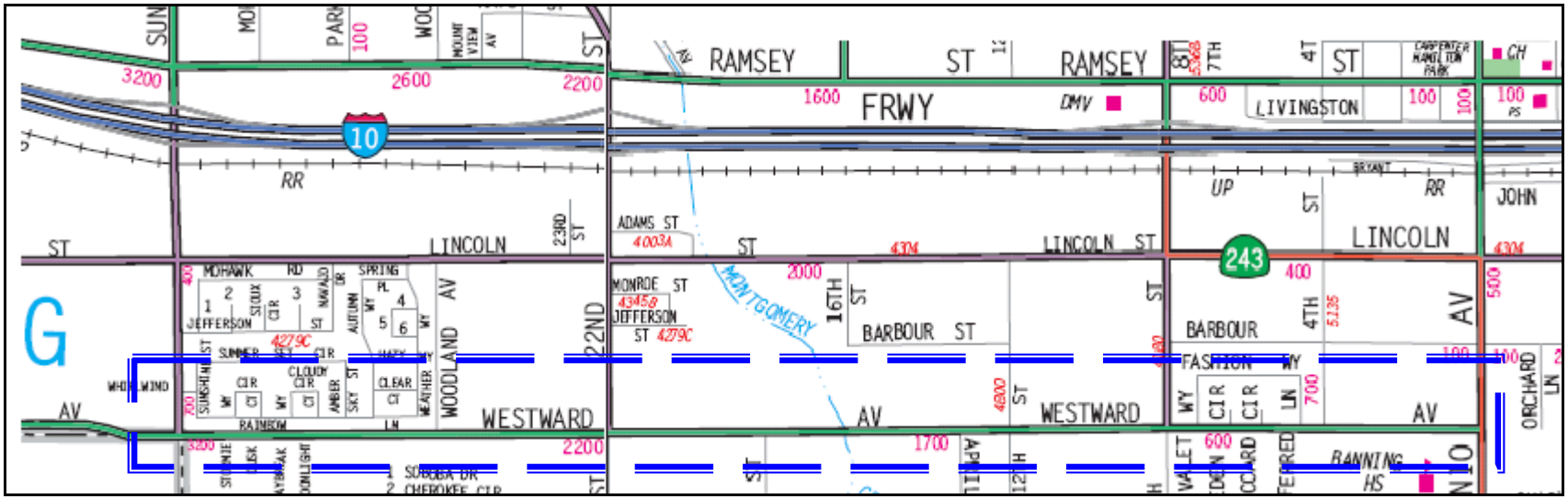
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

ZONE "41"

Radar Enforceable Speed Zone
Zone 41
Westward Avenue – From Sunset Ave to San Gorgonio Ave



SPEED ZONE SURVEY SHEET

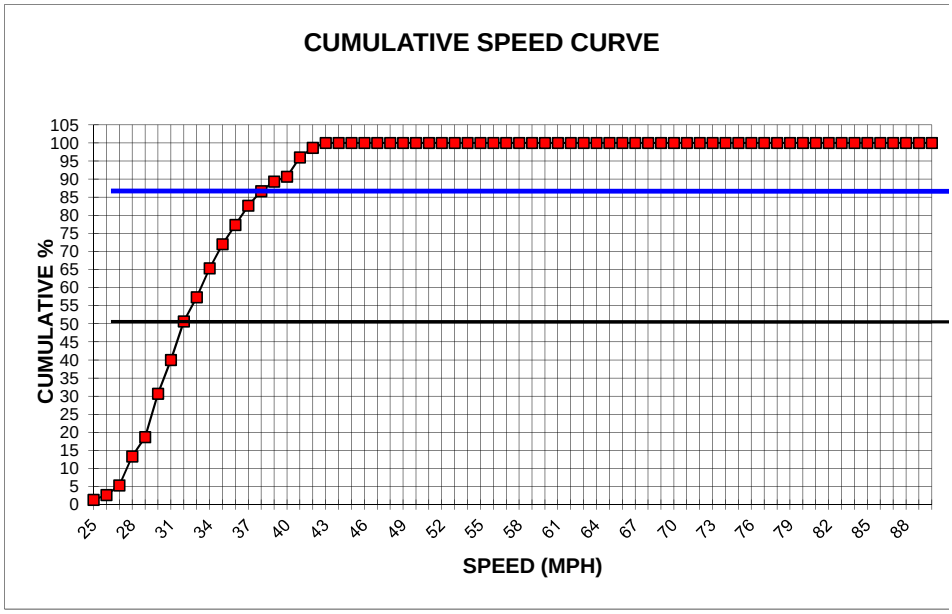
City of Banning
Public Works Department
Kahono Oei, City Engineer

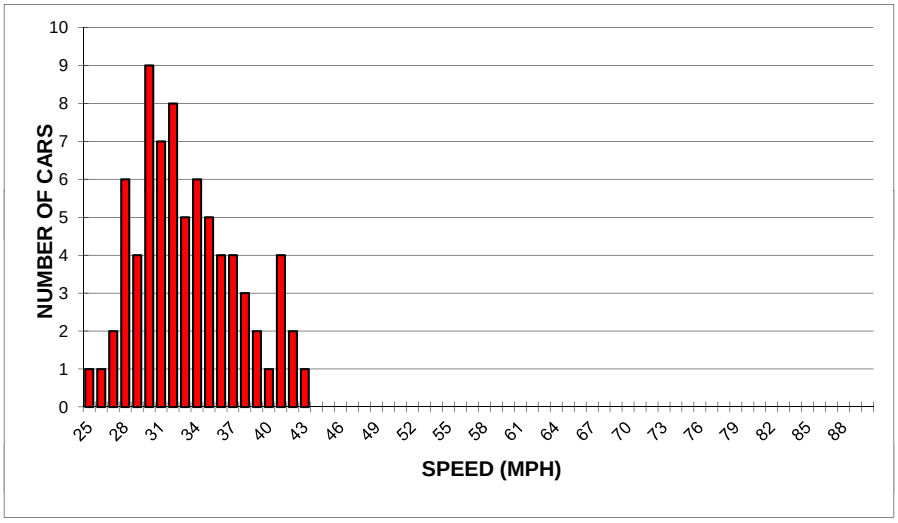
Street **Westward Avenue**
Segment: **From Sunset Avenue to San Gorgonio Avenue**
DIRECTION: **EB** DATE: 9/6/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:15 - 14:15
WEATHER: Clear

50th Percentile Speed			32.0
85th Percentile Speed			38.0
Number of Vehicles Observed			75
Average Speed			33
Range of Speeds	25	to	43

10 MPH Pace Speed	28	to	37
Percent in Pace Speed			77
Percent over Pace Speed			17
Percent under Pace Speed			5

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	1	1	1
26	1	1	3
27	2	3	5
28	6	8	13
29	4	5	19
30	9	12	31
31	7	9	40
32	8	11	51
33	5	7	57
34	6	8	65
35	5	7	72
36	4	5	77
37	4	5	83
38	3	4	87
39	2	3	89
40	1	1	91
41	4	5	96
42	2	3	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100
76	0	0	100
77	0	0	100
78	0	0	100
79	0	0	100
80	0	0	100





Loc 41 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Westward Avenue**
Segment: **From Sunset Avenue to San Gorgonio Avenue**
DIRECTION: **WB** DATE: 9/6/11
POSTED SPEED LIMITS: **35 MPH** TIME: 14:45 - 16:00
WEATHER: Clear

50th Percentile Speed	33.0	10 MPH Pace Speed	28 to 37
85th Percentile Speed	38.0	Percent in Pace Speed	72
Number of Vehicles Observed	75	Percent over Pace Speed	21
Average Speed	34	Percent under Pace Speed	7
Range of Speeds	26 to 42		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	0	0	0
26	3	4	4
27	2	3	7
28	4	5	12
29	6	8	20
30	5	7	27
31	8	11	37
32	5	7	44
33	4	5	49
34	6	8	57
35	6	8	65
36	5	7	72
37	5	7	79
38	4	5	84
39	5	7	91
40	2	3	93
41	3	4	97
42	2	3	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
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60	0	0	100
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67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
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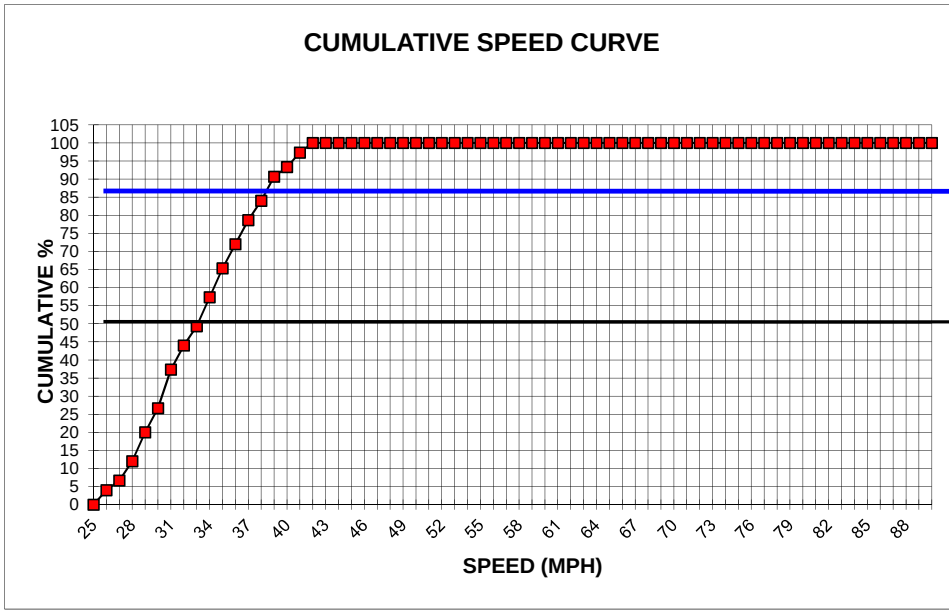
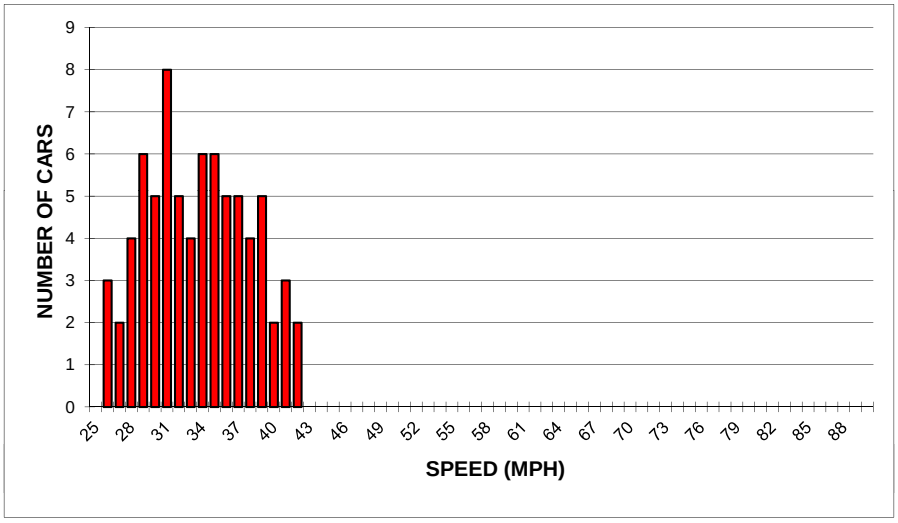
80	0	0	100





Loc 41 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Westward Avenue**
Segment: **From Sunset Avenue to San Gorgonio Avenue**
DIRECTION: **Both Directions** DATE: 9/6/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:15 - 16:00
WEATHER: Clear

50th Percentile Speed			33.0
85th Percentile Speed			38.0
Number of Vehicles Observed			150
Average Speed			33
Range of Speeds	25	to	43

10 MPH Pace Speed	28	to	37
Percent in Pace Speed			75
Percent over Pace Speed			19
Percent under Pace Speed			6

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
25	1	1	1
26	4	3	3
27	4	3	6
28	10	7	13
29	10	7	19
30	14	9	29
31	15	10	39
32	13	9	47
33	9	6	53
34	12	8	61
35	11	7	69
36	9	6	75
37	9	6	81
38	7	5	85
39	7	5	90
40	3	2	92
41	7	5	97
42	4	3	99
43	1	1	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
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77	0	0	100
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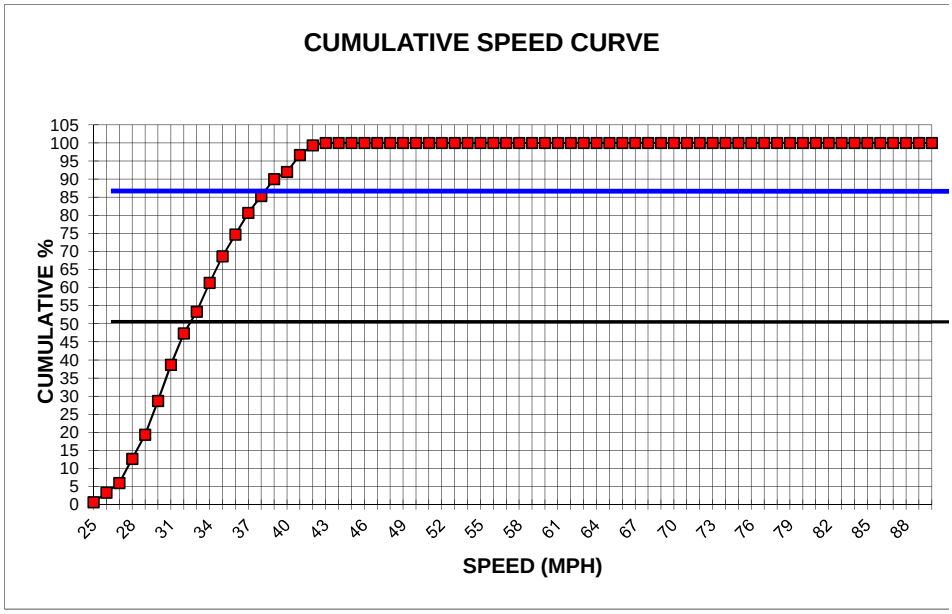
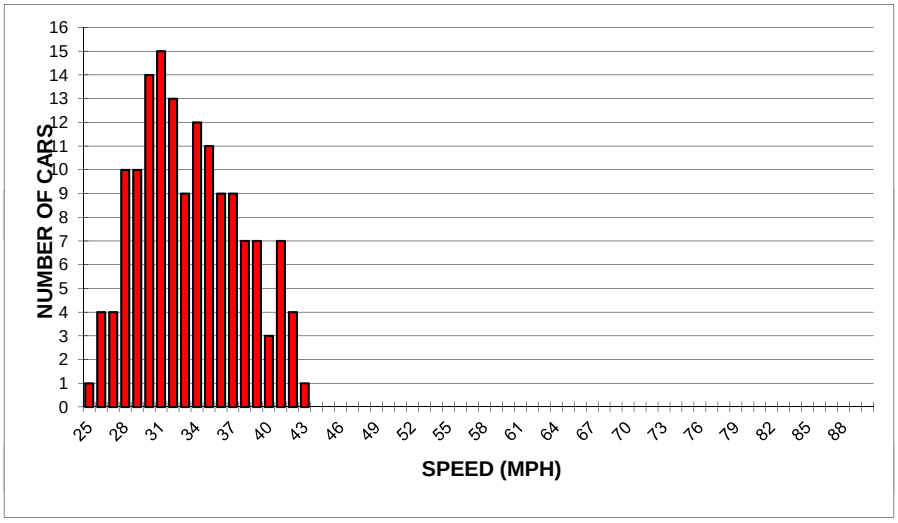
79	0	0	100
80	0	0	100





Loc 41 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "42"
Williams Street - From Sunset St to Hathaway St

Location: Williams St - From Sunset St to Hathaway St	Original Limits: (If changed)

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/7/2011	85th %tile Speed: 29 mph
Posted Speed Limit: 25 mph	Average Speed: 26 mph
10 mph Pace Speed: 21 - 30 mph	Percent in Pace Speed: 89%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 7	At Intersections: 5	Mid-block: 2
Collision Rate: 2.74 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	2.5 mile long, 40-ft wide, straight roadway
Traffic:	2,800 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

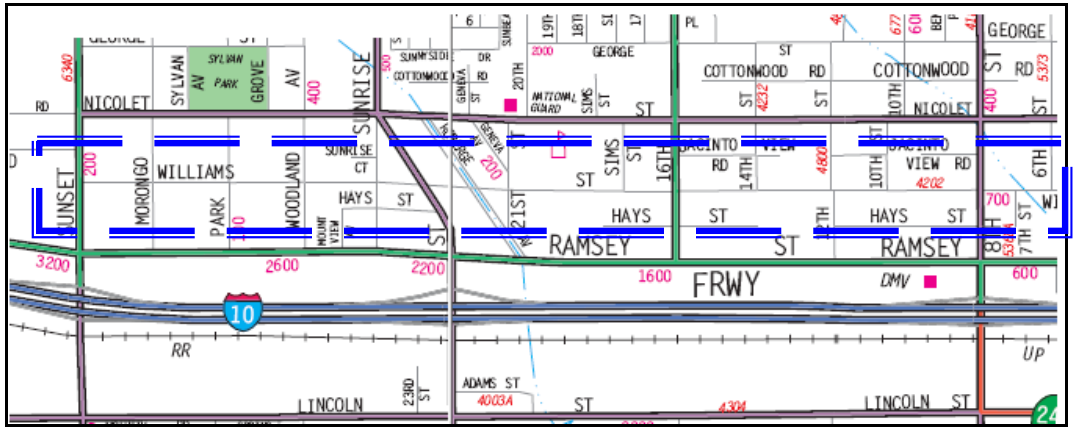
PART IV - RECOMMENDATIONS

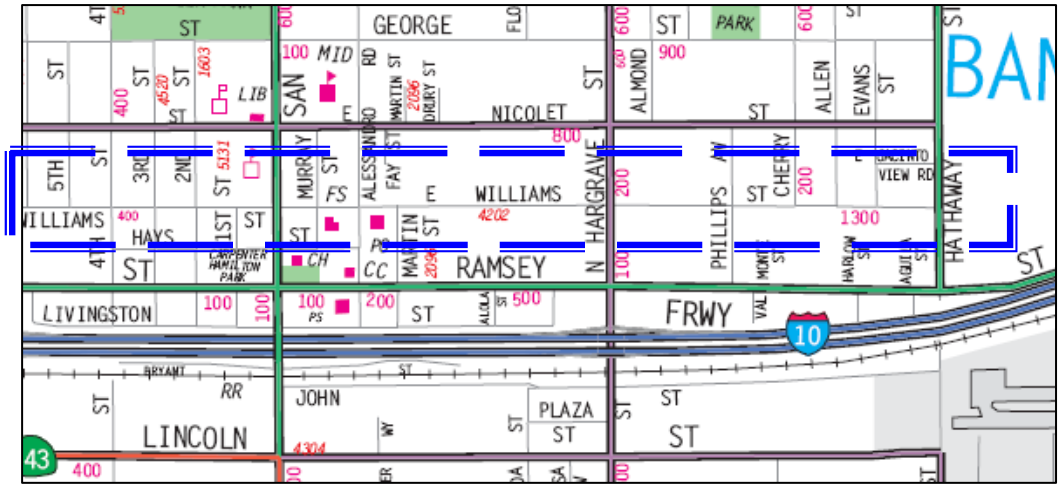
Recommended Speed Limit:	**25 mph**

(*) - No recent collision records available

ZONE "42"

Radar Enforceable Speed Zone
Zone 42
Williams Street – From Sunset Ave to Hathaway St





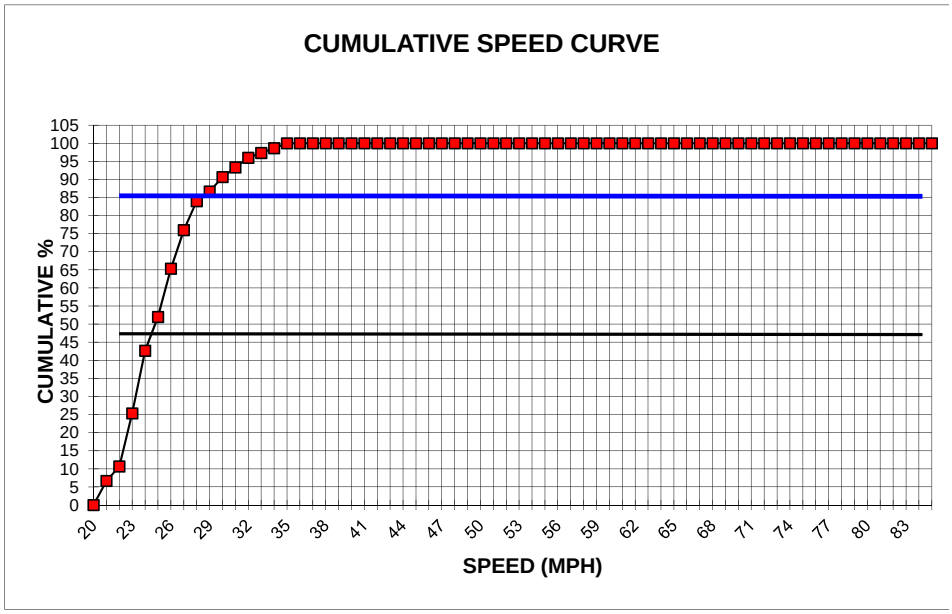
SPEED ZONE SURVEY SHEET

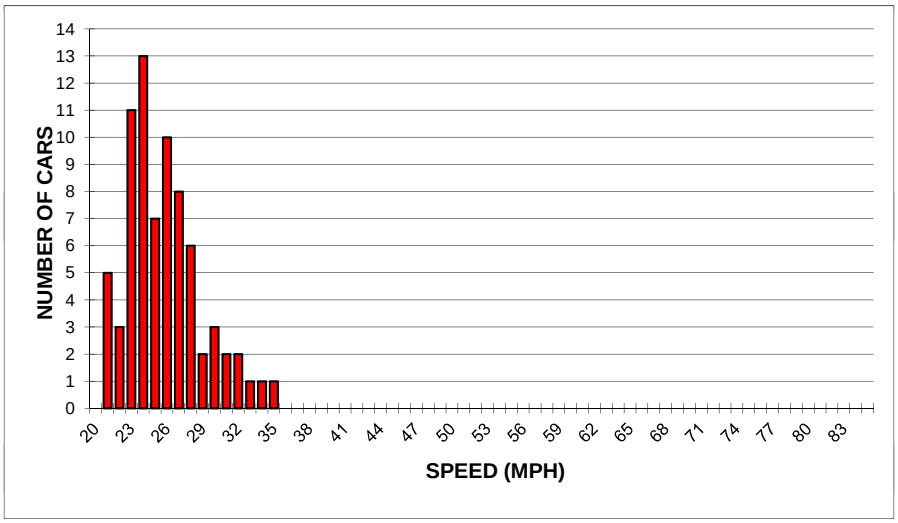
City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Williams Street**
Segment: **From Sunset Ave to Hathaway St**
DIRECTION: **Eastbound** DATE: 9/7/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:00 - 10:00
WEATHER: Clear

50th Percentile Speed	25.0	10 MPH Pace Speed	21 to 30
85th Percentile Speed	28.0	Percent in Pace Speed	91
Number of Vehicles Observed	75	Percent over Pace Speed	9
Average Speed	26	Percent under Pace Speed	0
Range of Speeds	21 to 35		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	5	7	7
22	3	4	11
23	11	15	25
24	13	17	43
25	7	9	52
26	10	13	65
27	8	11	76
28	6	8	84
29	2	3	87
30	3	4	91
31	2	3	93
32	2	3	96
33	1	1	97
34	1	1	99
35	1	1	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 42 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Williams Street**
Segment: **From Sunset Ave to Hathaway St**
DIRECTION: **Westbound** DATE: 9/07/11
POSTED SPEED LIMITS: **25 MPH** TIME: 10:30 - 11:30
WEATHER: Clear

50th Percentile Speed	26.0	10 MPH Pace Speed	21 to 30
85th Percentile Speed	29.0	Percent in Pace Speed	88
Number of Vehicles Observed	75	Percent over Pace Speed	11
Average Speed	26	Percent under Pace Speed	1
Range of Speeds	20 to 35		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	2	3	4
22	4	5	9
23	9	12	21
24	9	12	33
25	8	11	44
26	12	16	60
27	9	12	72
28	6	8	80
29	4	5	85
30	3	4	89
31	2	3	92
32	3	4	96
33	1	1	97
34	1	1	99
35	1	1	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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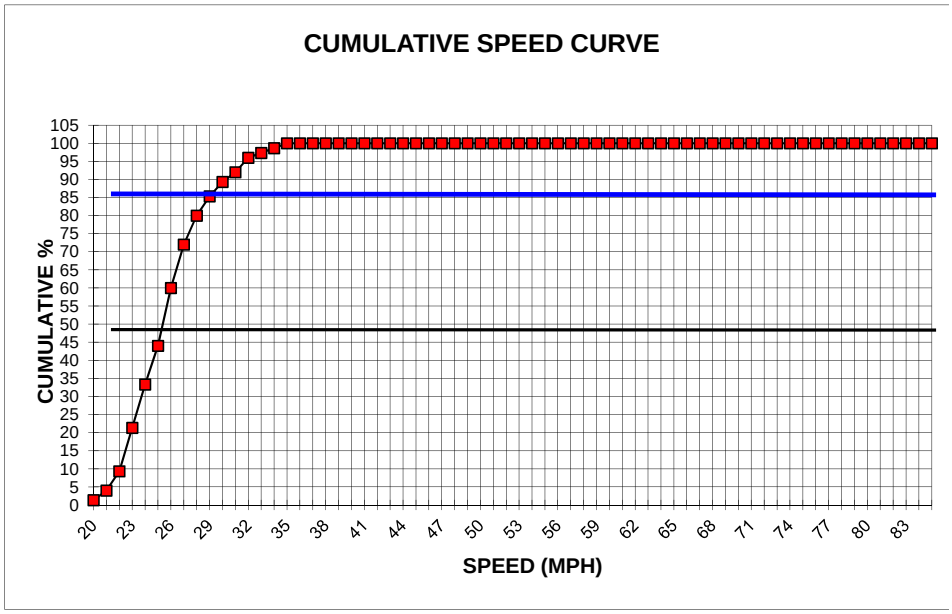
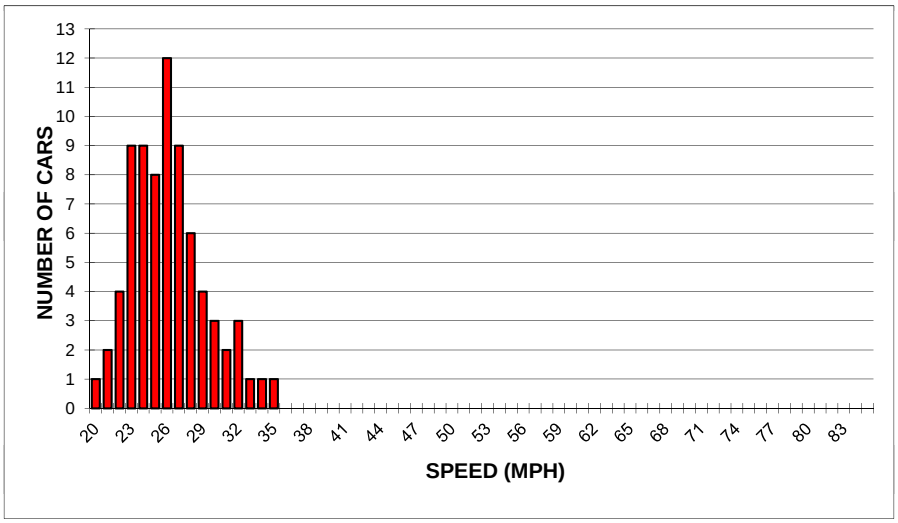
74	0	0	100
75	0	0	100





Loc 42 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Williams Street**
Segment: **From Sunset Ave to Hathaway St**
DIRECTION: **Both Directions** DATE: 9/7/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:00 - 11:30
WEATHER: Clear

50th Percentile Speed	26.0	10 MPH Pace Speed	21 to 30
85th Percentile Speed	29.0	Percent in Pace Speed	89
Number of Vehicles Observed	150	Percent over Pace Speed	10
Average Speed	26	Percent under Pace Speed	1
Range of Speeds	20 to 35		

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	7	5	5
22	7	5	10
23	20	13	23
24	22	15	38
25	15	10	48
26	22	15	63
27	17	11	74
28	12	8	82
29	6	4	86
30	6	4	90
31	4	3	93
32	5	3	96
33	2	1	97
34	2	1	99
35	2	1	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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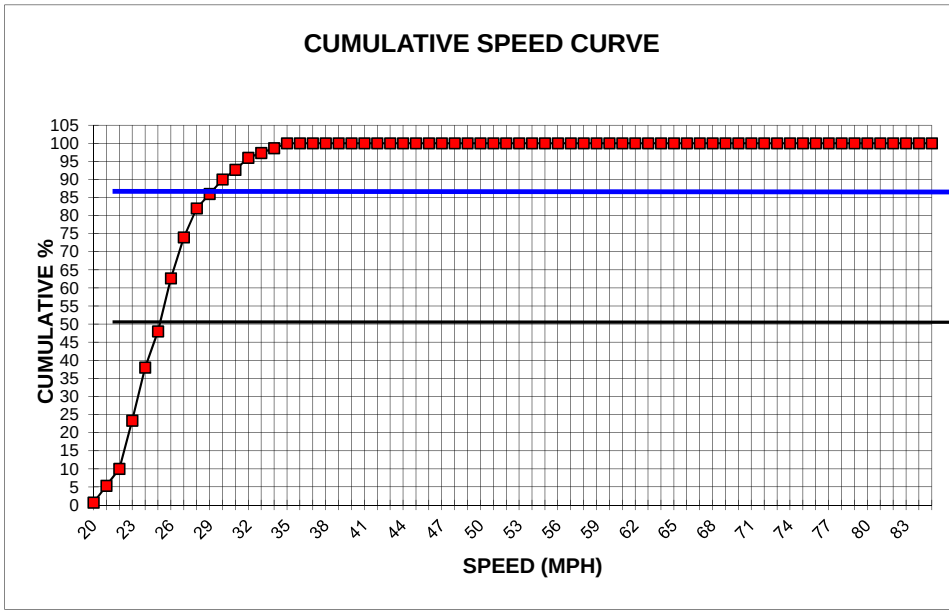
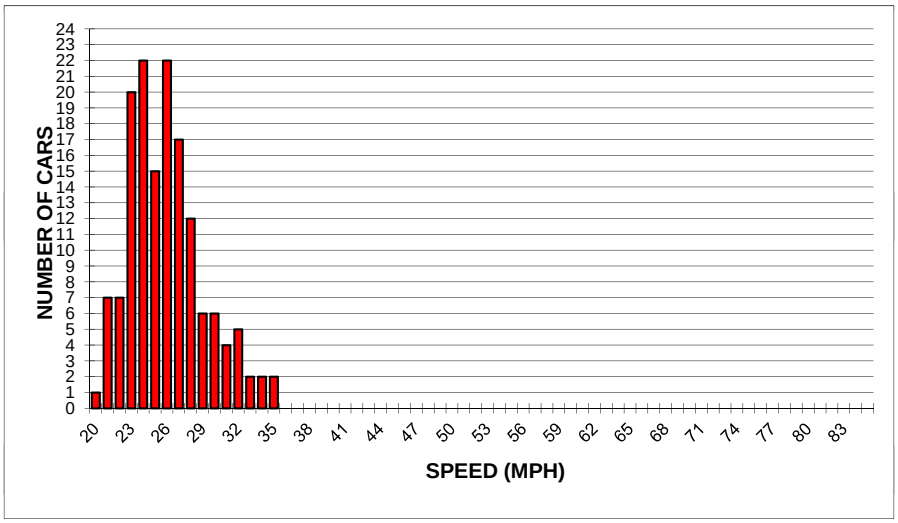
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 42 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "43"
George Street - From Sunset Ave to Woodland Ave

Location: George Street - From Sunset Ave to Woodland Ave	Original Limits:

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/7/2011	85th %tile Speed: 29 mph
Posted Speed Limit: 25 mph	Average Speed: 26 mph
10 mph Pace Speed: 21 - 30 mph	Percent in Pace Speed: 88%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 1	At Intersections: 1	Mid-block: 0
Collision Rate: 3.81 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

Roadway:	0.4 mile long, 46-ft wide, straight roadway
Traffic:	1,800 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

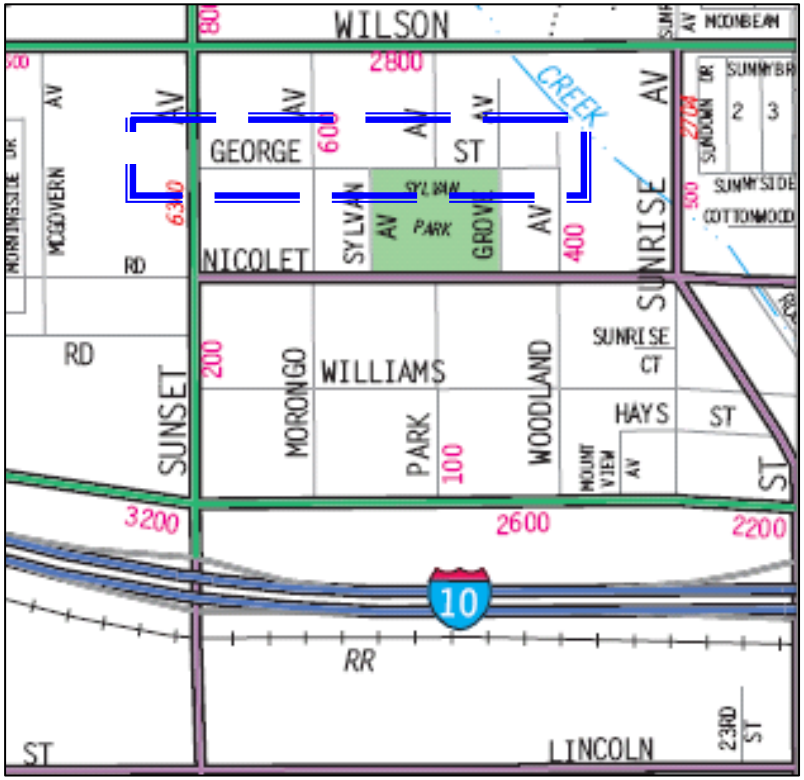
PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph**

(*) - No recent collision records available

ZONE "43"

Radar Enforceable Speed Zone
Zone 43
George Street – From Sunset Ave to Woodland Ave



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **George Street**
Segment: **From Sunset Ave to Woodland Ave**
DIRECTION: **Eastbound** DATE: 9/07/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	20	to	35

10 MPH Pace Speed	21	to	30
Percent in Pace Speed			89
Percent over Pace Speed			9
Percent under Pace Speed			2

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	2	2	2
21	3	3	5
22	3	3	8
23	7	7	15
24	13	13	28
25	11	11	39
26	15	15	54
27	12	12	66
28	12	12	78
29	8	8	86
30	5	5	91
31	1	1	92
32	2	2	94
33	1	1	95
34	2	2	97
35	3	3	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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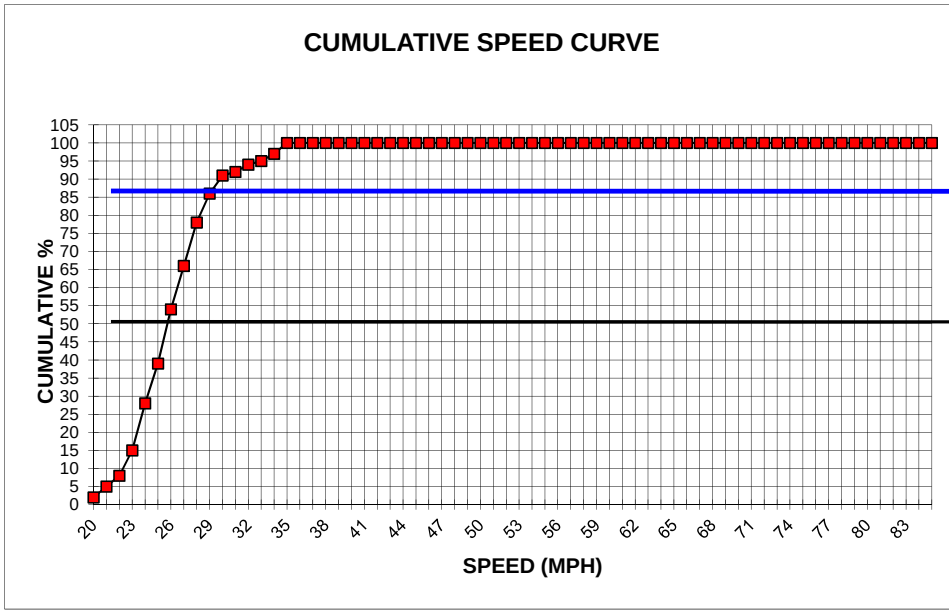
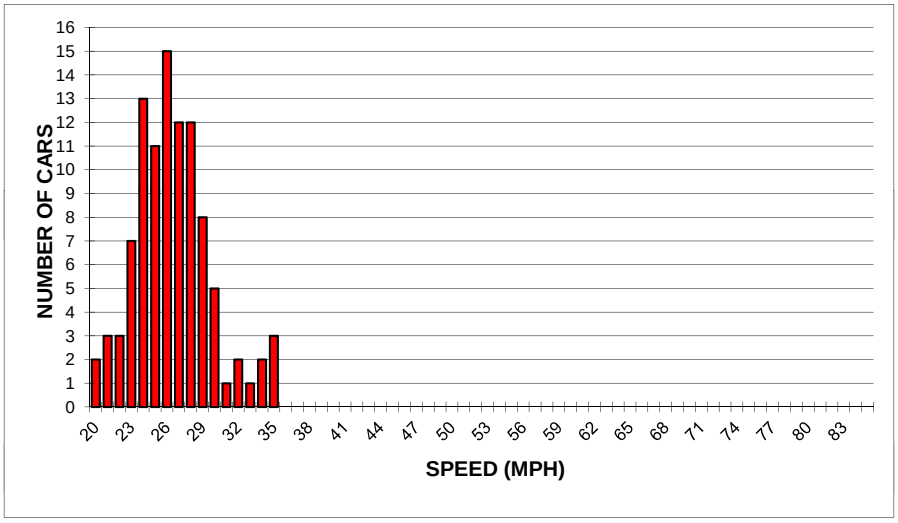
74	0	0	100
75	0	0	100





Loc 43 EB

SPEED ZONE SURVEY SHEET

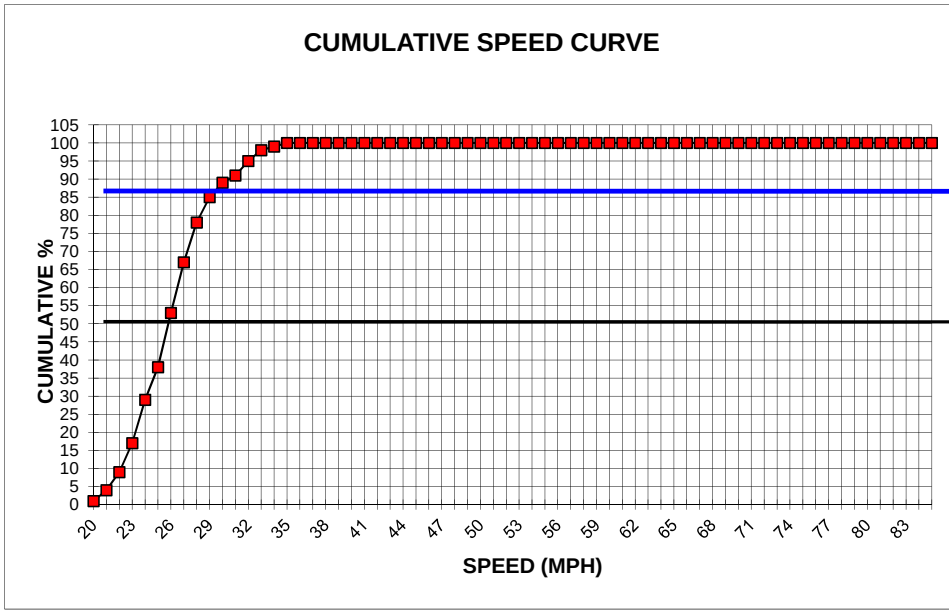
City of Banning
Public Works Department
Kahono Oei, City Engineer

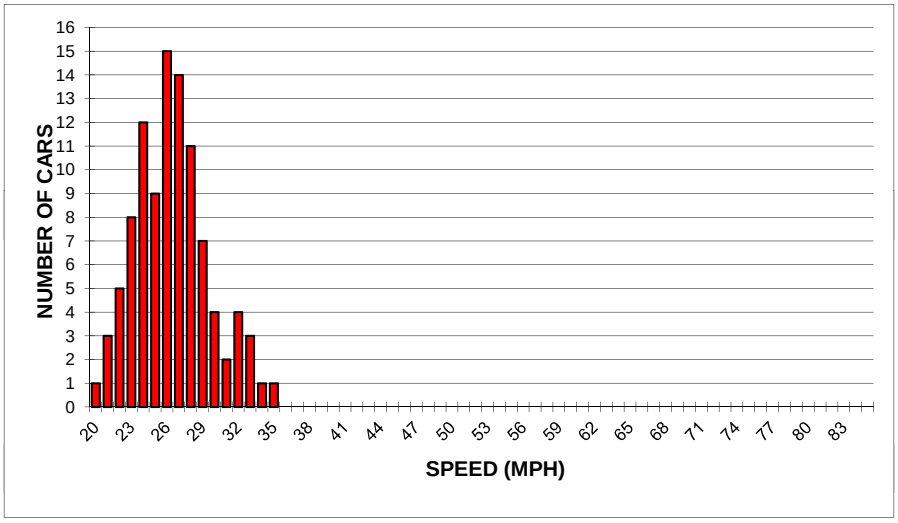
Roadway: **George Street**
Segment: **From Sunset Ave to Woodland Ave**
DIRECTION: **Westbound** DATE: 9/7/11
POSTED SPEED LIMITS: **25MPH** TIME: 14:30 - 15:30
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			26
Range of Speeds	20	to	35

10 MPH Pace Speed	21	to	30
Percent in Pace Speed			88
Percent over Pace Speed			11
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	3	3	4
22	5	5	9
23	8	8	17
24	12	12	29
25	9	9	38
26	15	15	53
27	14	14	67
28	11	11	78
29	7	7	85
30	4	4	89
31	2	2	91
32	4	4	95
33	3	3	98
34	1	1	99
35	1	1	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 43 WB

SPEED ZONE SURVEY SHEET

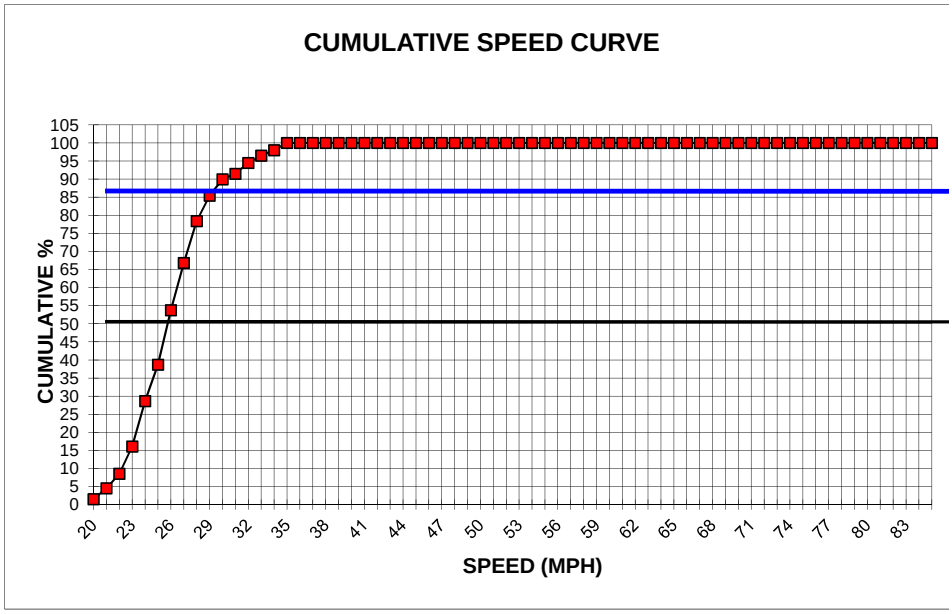
City of Banning
Public Works Department
Kahono Oei, City Engineer

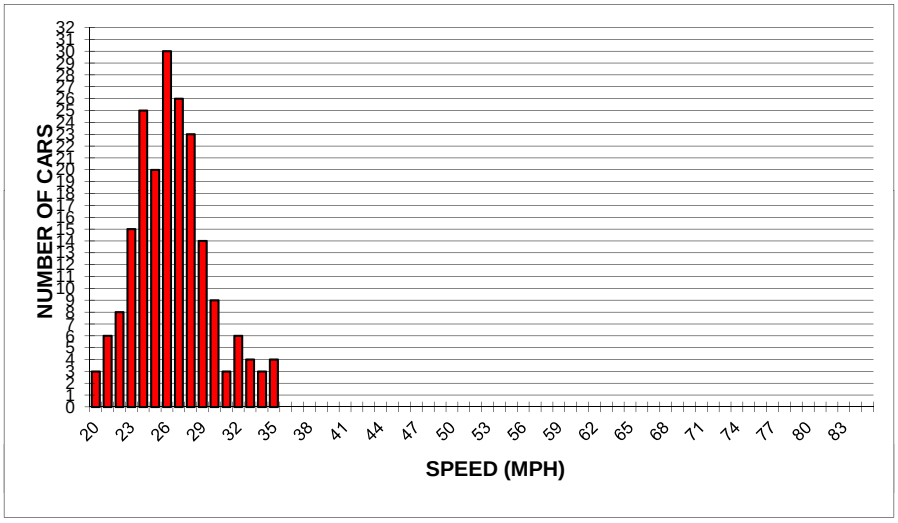
Roadway: **George Street**
Segment: **From Sunset Ave to Woodland Ave**
DIRECTION: **Both Directions** DATE: 9/7/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 15:30
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			199
Average Speed			26
Range of Speeds	20	to	35

10 MPH Pace Speed	21	to	30
Percent in Pace Speed			88
Percent over Pace Speed			10
Percent under Pace Speed			2

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	3	2	2
21	6	3	5
22	8	4	9
23	15	8	16
24	25	13	29
25	20	10	39
26	30	15	54
27	26	13	67
28	23	12	78
29	14	7	85
30	9	5	90
31	3	2	91
32	6	3	94
33	4	2	96
34	3	2	98
35	4	2	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 43 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "44"
George Street - From 20th St to 8th St

Location: George Street - From 20th St to 8th St	Original Limits:

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/8/2011	85th %tile Speed: 29 mph
Posted Speed Limit: 25 mph	Average Speed: 27 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 89%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 1	Mid-block: 1
Collision Rate: 3.81 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

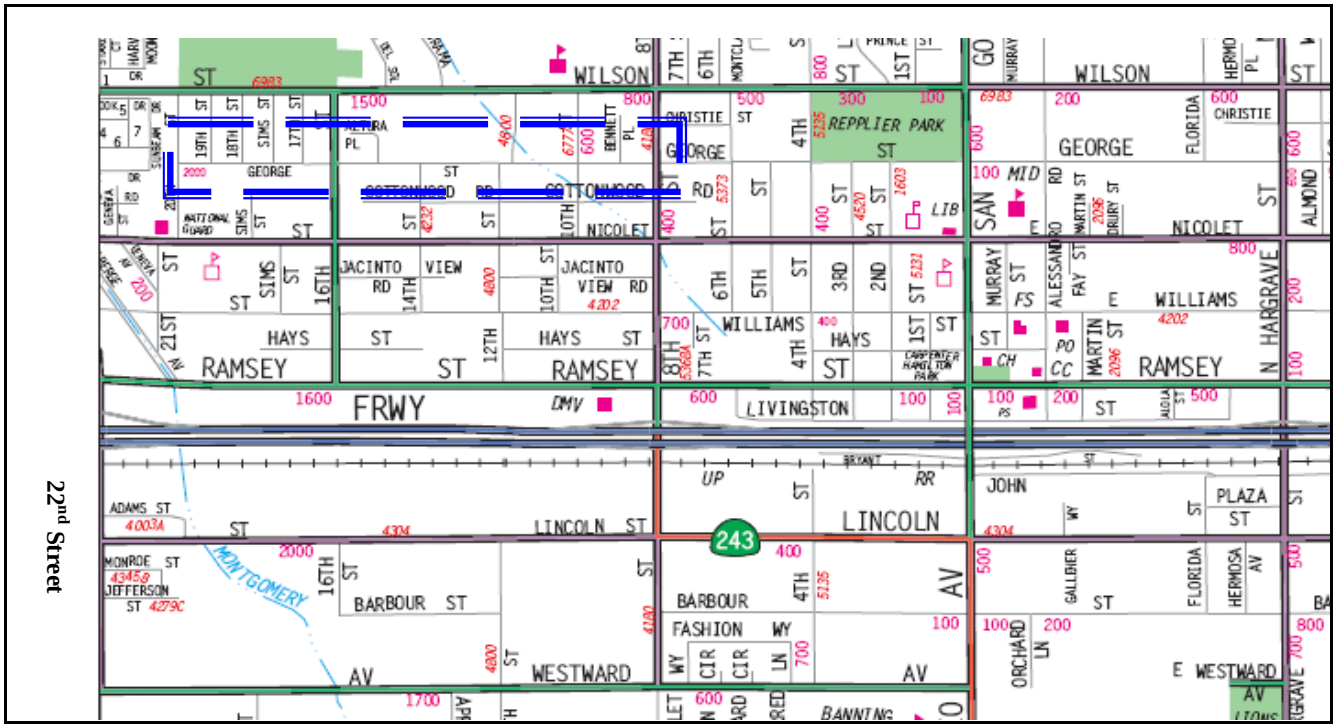
Roadway:	0.8 mile long, 36-ft wide, straight roadway
Traffic:	1,800 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 44
George Street – From 20th St to 8th St



SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

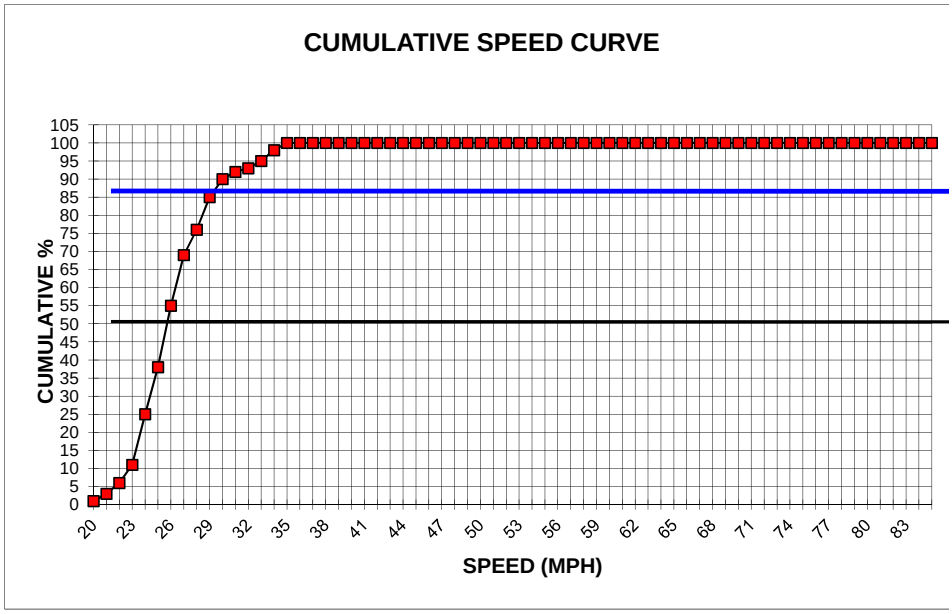
Street **George Street**
Segment: **From 20th St to 8th St**
DIRECTION: **Eastbound**
POSTED SPEED LIMITS: **25 MPH**
WEATHER: Clear

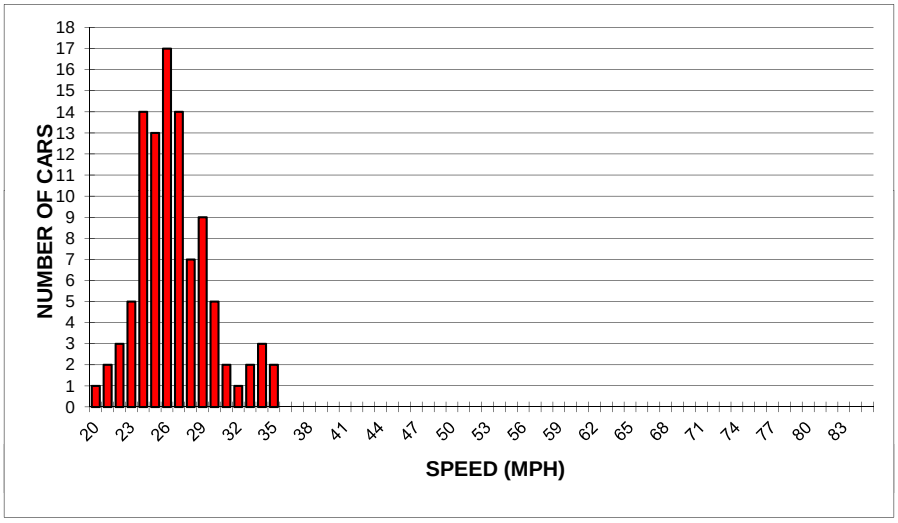
DATE: 9/8/11
TIME: 9:15 - 10:15

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	20	to	35

10 MPH Pace Speed	21	to	30
Percent in Pace Speed			89
Percent over Pace Speed			10
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	2	2	3
22	3	3	6
23	5	5	11
24	14	14	25
25	13	13	38
26	17	17	55
27	14	14	69
28	7	7	76
29	9	9	85
30	5	5	90
31	2	2	92
32	1	1	93
33	2	2	95
34	3	3	98
35	2	2	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 44 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **George Street**
Segment: **From 20th St to 8th St**
DIRECTION: **Westbound**
POSTED SPEED LIMITS: **25 MPH**
WEATHER: Clear

DATE: 9/8/11
TIME: 10:30 - 11:30

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			27
Range of Speeds	21	to	35

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			88
Percent over Pace Speed			10
Percent under Pace Speed			2

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	2	2	2
22	4	4	6
23	6	6	12
24	15	15	27
25	11	11	38
26	16	16	54
27	15	15	69
28	7	7	76
29	9	9	85
30	2	2	87
31	3	3	90
32	4	4	94
33	2	2	96
34	3	3	99
35	1	1	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
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68	0	0	100
69	0	0	100
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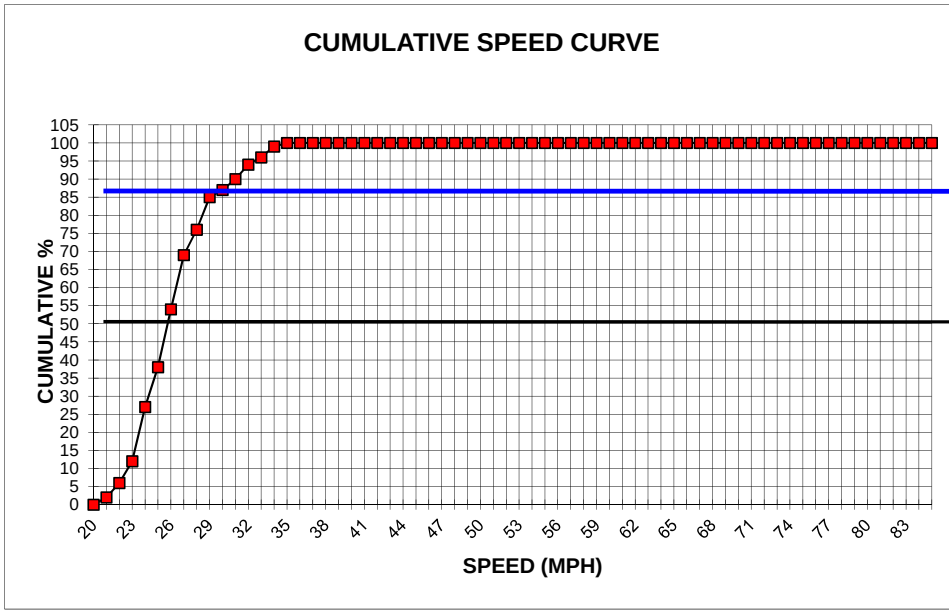
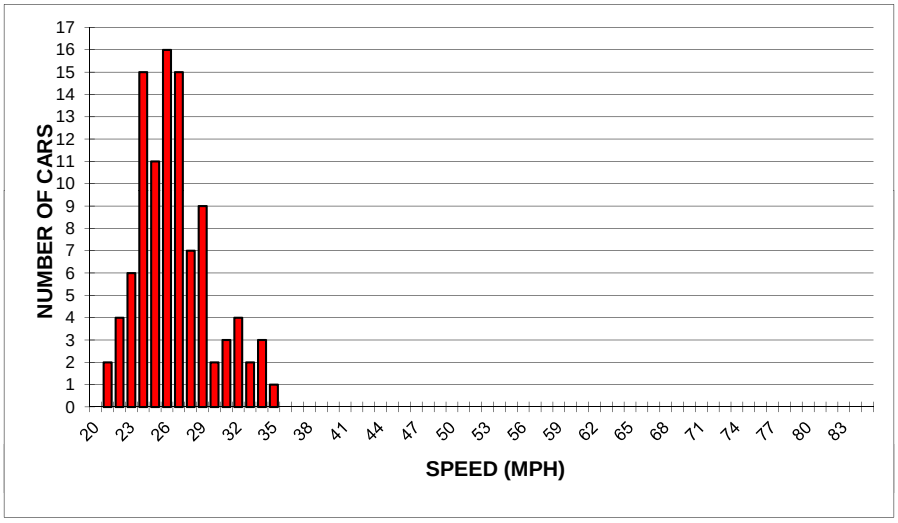
74	0	0	100
75	0	0	100





Loc 44 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **George Street**
Segment: **From 20th St to 8th St**
DIRECTION: **Both Directions** DATE: 9/8/11
POSTED SPEED LIMITS: **25 MPH** TIME: 09:15 - 11:30
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			200
Average Speed			27
Range of Speeds	20	to	35

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			89
Percent over Pace Speed			9
Percent under Pace Speed			3

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	1	1	1
21	4	2	3
22	7	4	6
23	11	6	12
24	29	15	26
25	24	12	38
26	33	17	55
27	29	15	69
28	14	7	76
29	18	9	85
30	7	4	89
31	5	3	91
32	5	3	94
33	4	2	96
34	6	3	99
35	3	2	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
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54	0	0	100
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56	0	0	100
57	0	0	100
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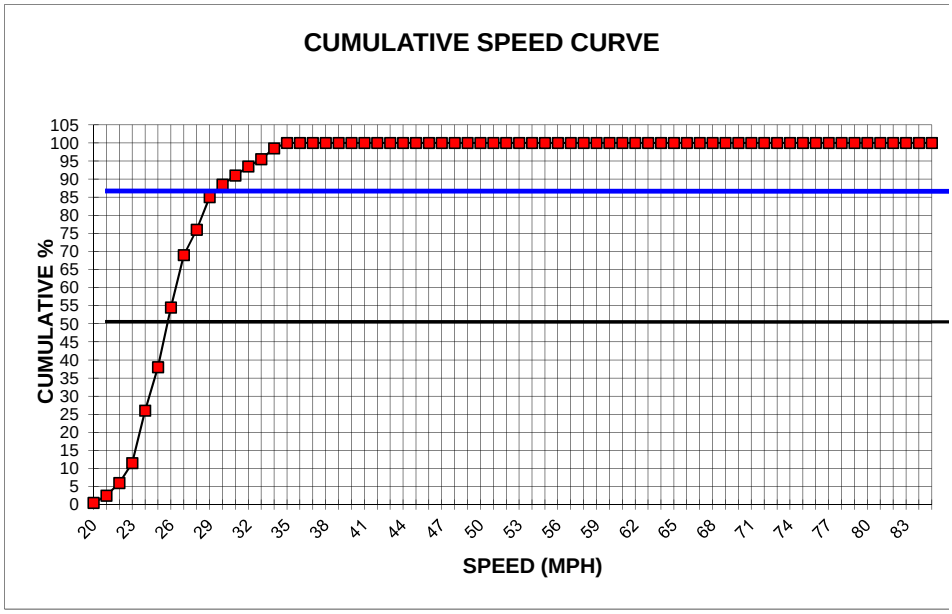
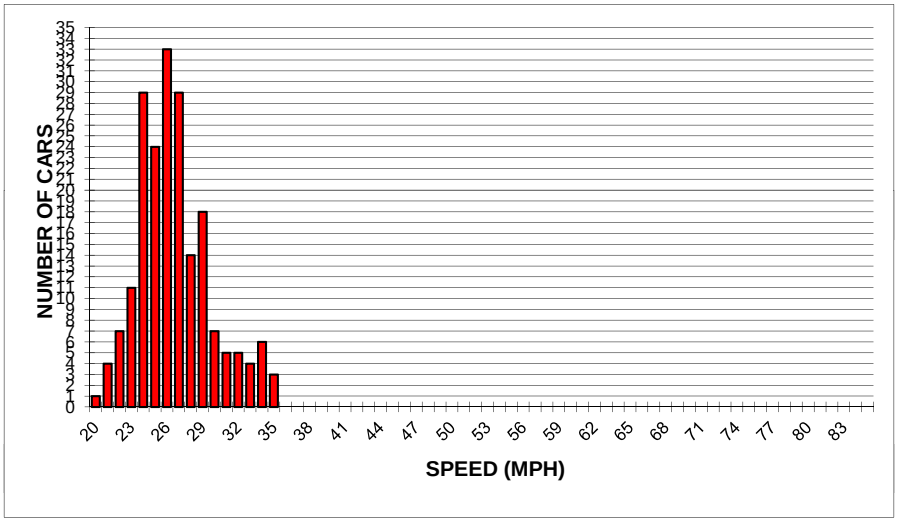
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 44 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "45"
George Street - From 8th St to San Gorgonio Ave

Location: George Street - From 8th St to San Gorgonio Ave	Original Limits:

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 9/8/2011	85th %tile Speed: 29
Posted Speed Limit: 25 mph	Average Speed: 26 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 92%
☑ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 2	At Intersections: 1	Mid-block: 1
Collision Rate: 6.09 (MVM)	State Avg. Rate: 3.05 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

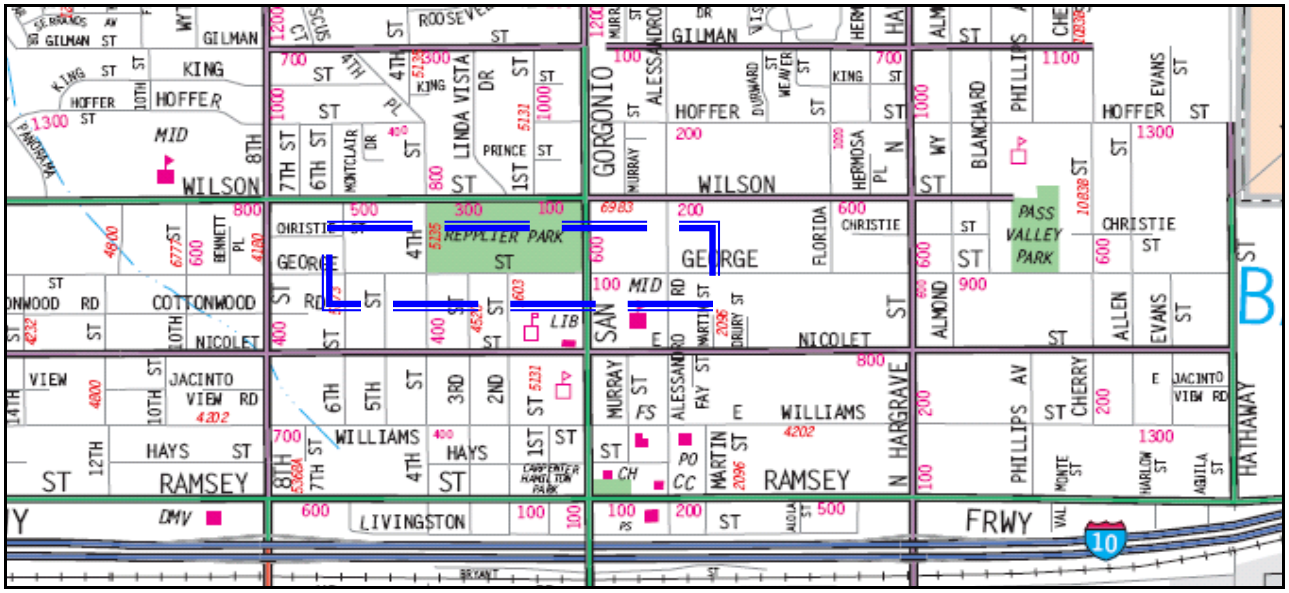
Roadway:	0.5 mile long, 36-ft wide, straight roadway
Traffic:	1,800 ADT
Roadside:	Urban residential, meets residential desidential density for CVC §515
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**25 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 45
George Street – From 8th St to San Gorgonio Ave



Zone 45

A=214

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **George Street**
Segment: **From 8th St to San Gorgonio Ave**
DIRECTION: **Eastbound** DATE: 9/8/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 14:00
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			26
Range of Speeds	23	to	34

10 MPH Pace Speed	23	to	32
Percent in Pace Speed			95
Percent over Pace Speed			5
Percent under Pace Speed			0

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	0	0	0
22	0	0	0
23	6	6	6
24	19	19	25
25	17	17	42
26	19	19	61
27	16	16	77
28	6	6	83
29	10	10	93
30	0	0	93
31	0	0	93
32	2	2	95
33	2	2	97
34	3	3	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
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56	0	0	100
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62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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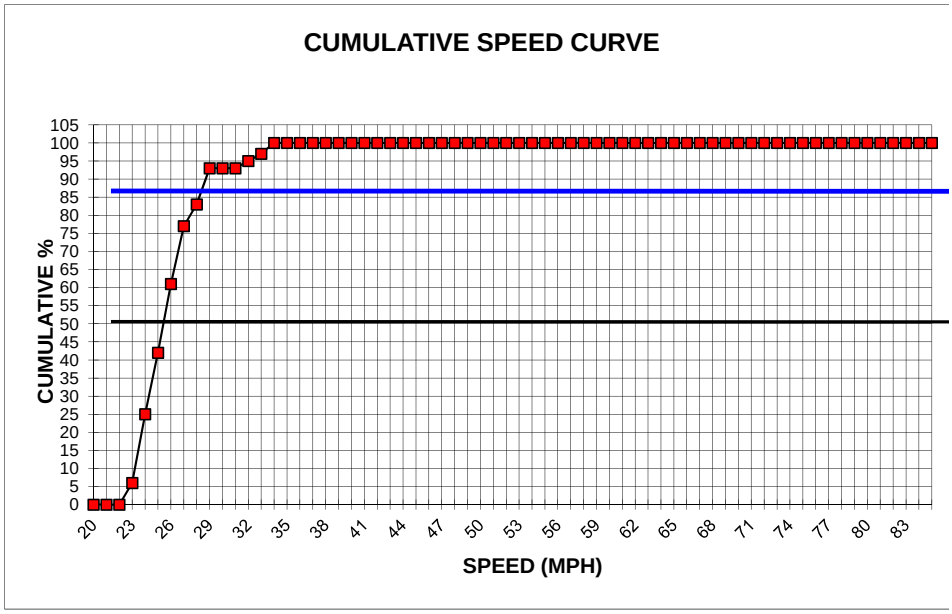
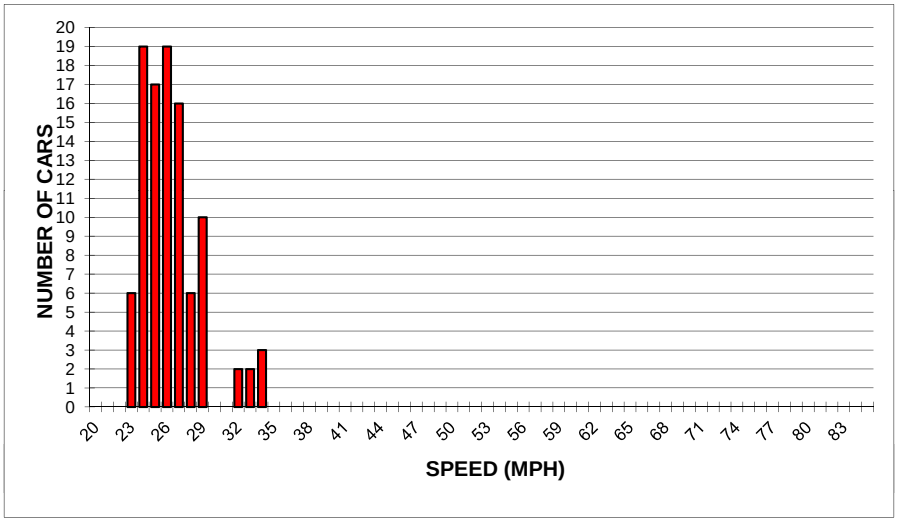
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 45 EB

SPEED ZONE SURVEY SHEET

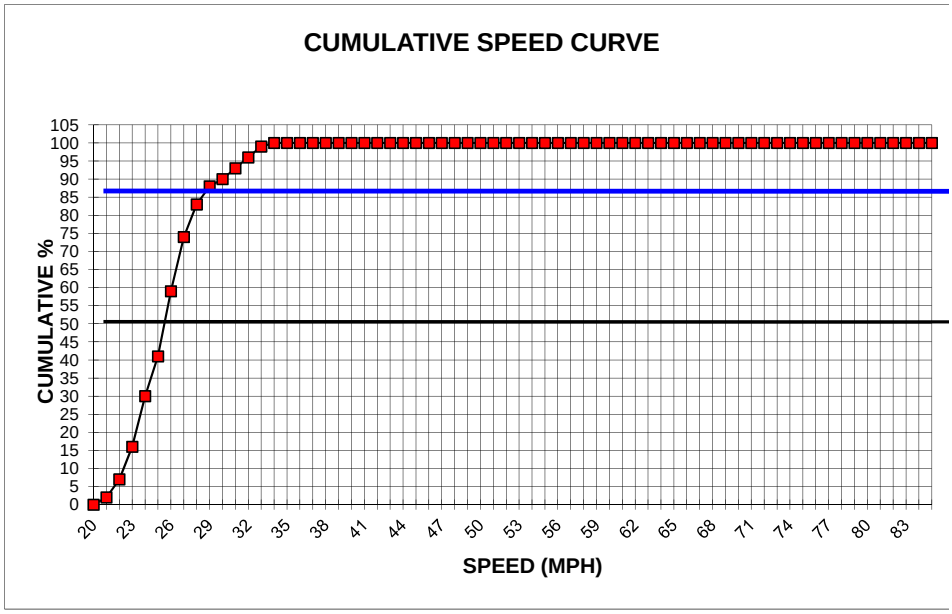
City of Banning
Public Works Department
Kahono Oei, City Engineer

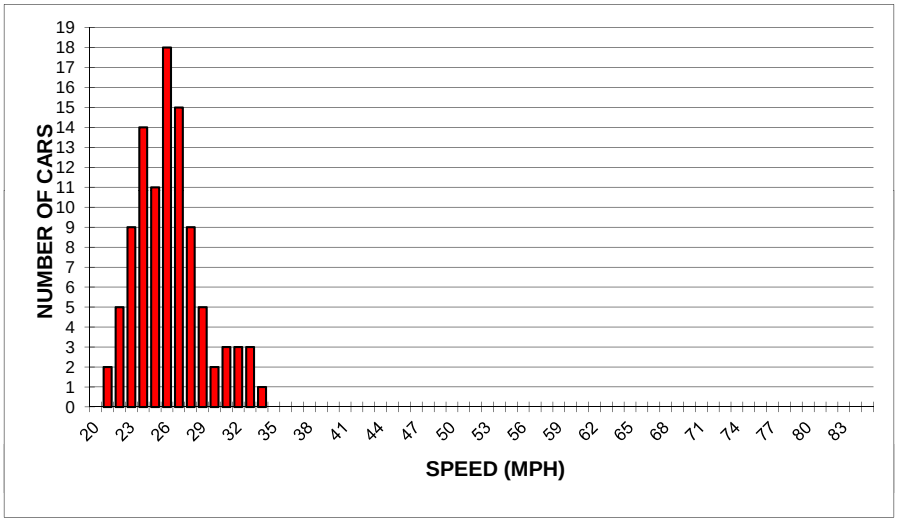
Roadway: **George Street**
Segment: **From 8th St to San Gorgonio Ave**
DIRECTION: **Westbound** DATE: 9/8/11
POSTED SPEED LIMITS: **25 MPH** TIME: 15:00 - 16:00
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			100
Average Speed			26
Range of Speeds	21	to	34

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			91
Percent over Pace Speed			7
Percent under Pace Speed			2

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	2	2	2
22	5	5	7
23	9	9	16
24	14	14	30
25	11	11	41
26	18	18	59
27	15	15	74
28	9	9	83
29	5	5	88
30	2	2	90
31	3	3	93
32	3	3	96
33	3	3	99
34	1	1	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
70	0	0	100
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 45 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **George Street**
Segment: **From 8th St to San Gorgonio Ave**
DIRECTION: **Both Directions** DATE: 9/8/11
POSTED SPEED LIMITS: **25 MPH** TIME: 13:00 - 16:00
WEATHER: Clear

50th Percentile Speed			26.0
85th Percentile Speed			29.0
Number of Vehicles Observed			199
Average Speed			26
Range of Speeds	21	to	34

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			92
Percent over Pace Speed			7
Percent under Pace Speed			1

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	2	1	1
22	5	3	4
23	15	8	11
24	33	17	28
25	28	14	42
26	37	19	60
27	31	16	76
28	15	8	83
29	14	7	90
30	2	1	91
31	3	2	93
32	5	3	95
33	5	3	98
34	4	2	100
35	0	0	100
36	0	0	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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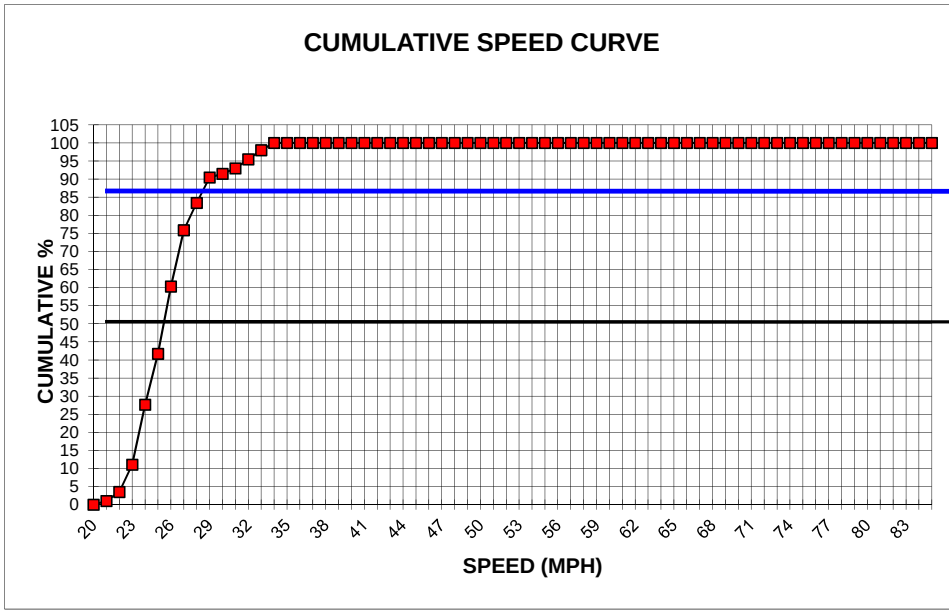
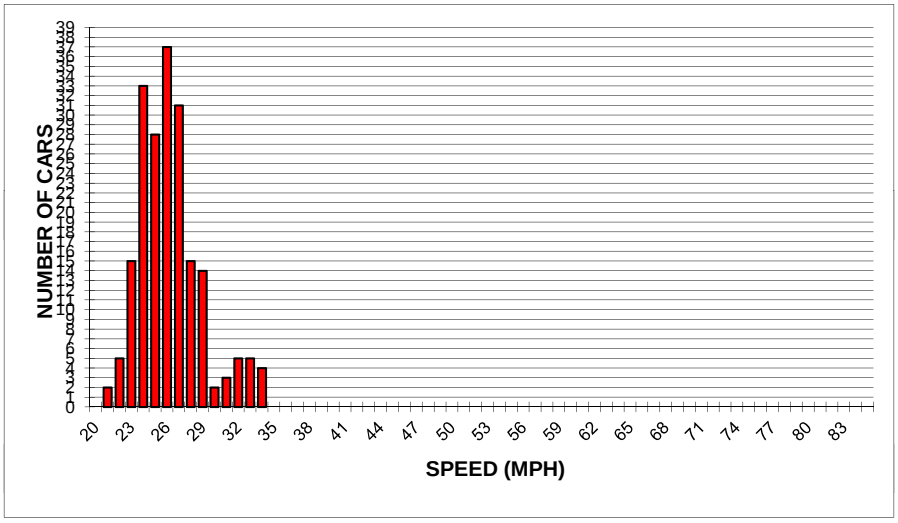
71	0	0	100
72	0	0	100
73	0	0	100
74	0	0	100
75	0	0	100





Loc 45 Both Dirs

City of Banning
Engineering and Traffic Survey Summary

Zone "46"
Sun Lakes Boulevard - From Highland Springs Ave to Country Club Drive

Location: Sun Lakes Blvd - From Highland Springs Ave to Country Club Dr	Original Limits: From Highland Springs Ave to Twin Hill Dr

PART I - CRITICAL SPEED

(See Speed Zone Survey Sheet for Details)

Date of Survey: 12/14/2011	85th %tile Speed: 32 mph
Posted Speed Limit: 35 mph	Average Speed: 28 mph
10 mph Pace Speed: 22 - 31 mph	Percent in Pace Speed: 79%
☐ Meet CVC §515 or §235	

PART II - COLLISION RECORDS (*)

Duration of Study: 07/01/05 to 06/30/06		
Total Collisions: 0	At Intersections: 0	Mid-block 0
Collision Rate: 0.00 (MVM)	State Avg. Rate: 3.35 (MVM)	

PART III - ROADWAY TRAFFIC AND ROADSIDE CHARACTERISTICS

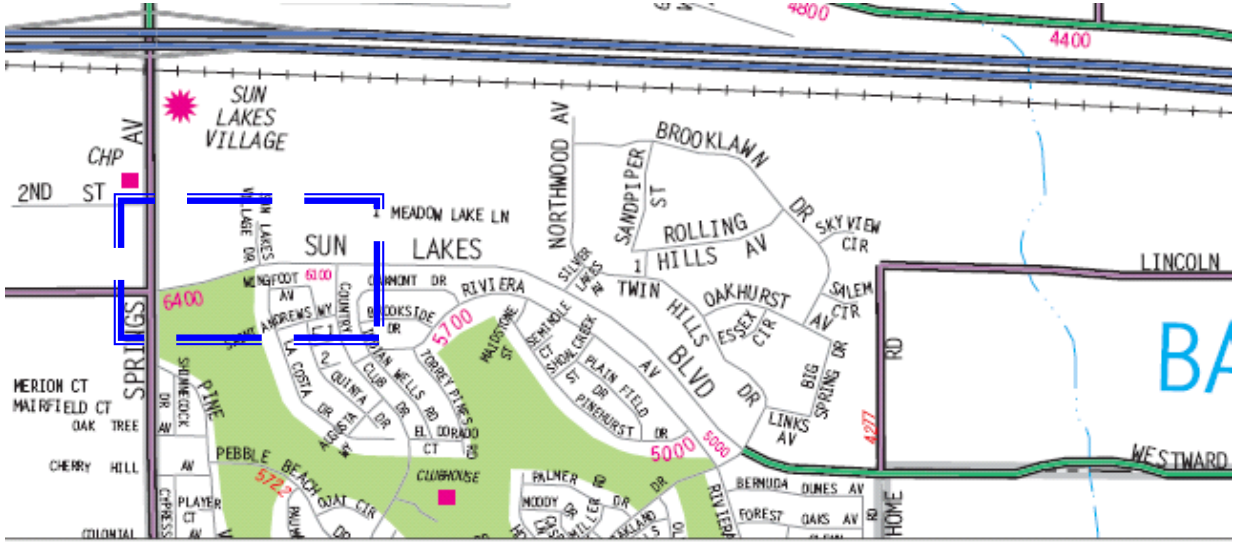
Roadway:	1.0 mile long, 86-ft wide with raised median, straight/curved roadway
Traffic:	5,400 ADT
Roadside:	Gated residential communities with limited entrances/limits
Not Readily Apparent to Driver:	

PART IV - RECOMMENDATIONS

Recommended Speed Limit:	**35 mph**

(*) - No recent collision records available

Radar Enforceable Speed Zone
Zone 46
Sun Lakes Blvd – From Highland Springs Ave to Country Club Dr



Zone 46

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Sun Lakes Blvd**
Segment: **From Highland Springs Ave to Country Club Gate**
DIRECTION: **Eastbound** DATE: 12/14/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:30 - 11:30
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			32.0
Number of Vehicles Observed			75
Average Speed			27
Range of Speeds	21	to	36

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			80
Percent over Pace Speed			16
Percent under Pace Speed			4

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	3	4	4
22	4	5	9
23	3	4	13
24	9	12	25
25	8	11	36
26	8	11	47
27	8	11	57
28	7	9	67
29	4	5	72
30	5	7	79
31	4	5	84
32	2	3	87
33	4	5	92
34	3	4	96
35	2	3	99
36	1	1	100
37	0	0	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
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56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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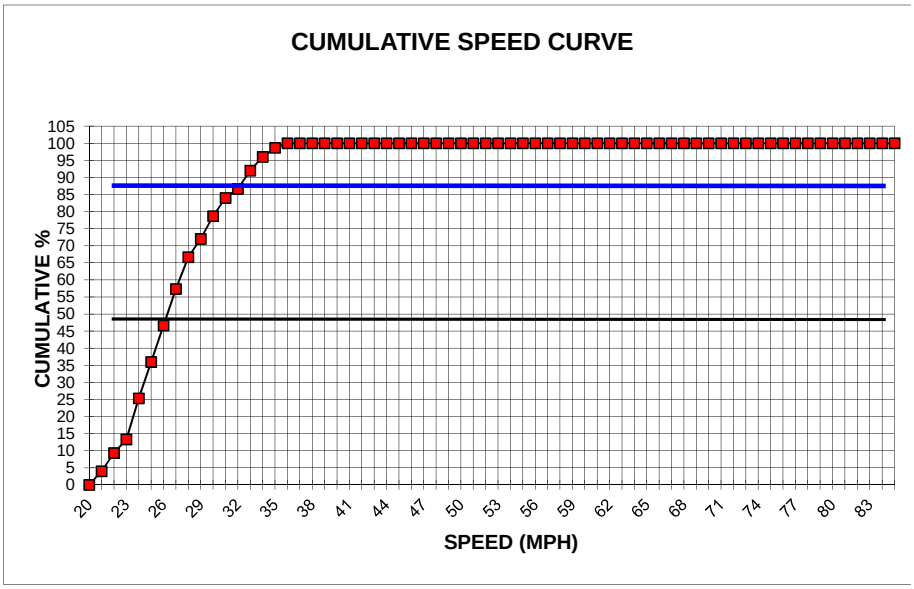
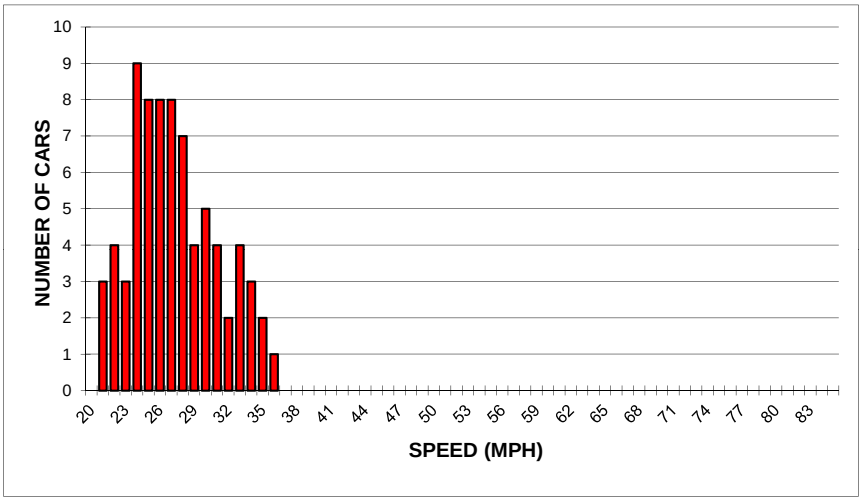
74	0	0	100
75	0	0	100





Loc 46 EB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Roadway: **Sun Lakes Blvd.**
Segment: **From Highland Springs Ave to Country Club Gate**
DIRECTION: **Westbound** DATE: 12/14/11
POSTED SPEED LIMITS: **35 MPH** TIME: 13:00 - 14:15
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			33.0
Number of Vehicles Observed			75
Average Speed			28
Range of Speeds	21	to	37

10 MPH Pace Speed	25	to	34
Percent in Pace Speed			80
Percent over Pace Speed			5
Percent under Pace Speed			15

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	1	1	1
22	3	4	5
23	4	5	11
24	3	4	15
25	7	9	24
26	9	12	36
27	10	13	49
28	9	12	61
29	3	4	65
30	4	5	71
31	6	8	79
32	3	4	83
33	4	5	88
34	5	7	95
35	2	3	97
36	1	1	99
37	1	1	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
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57	0	0	100
58	0	0	100
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60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
69	0	0	100
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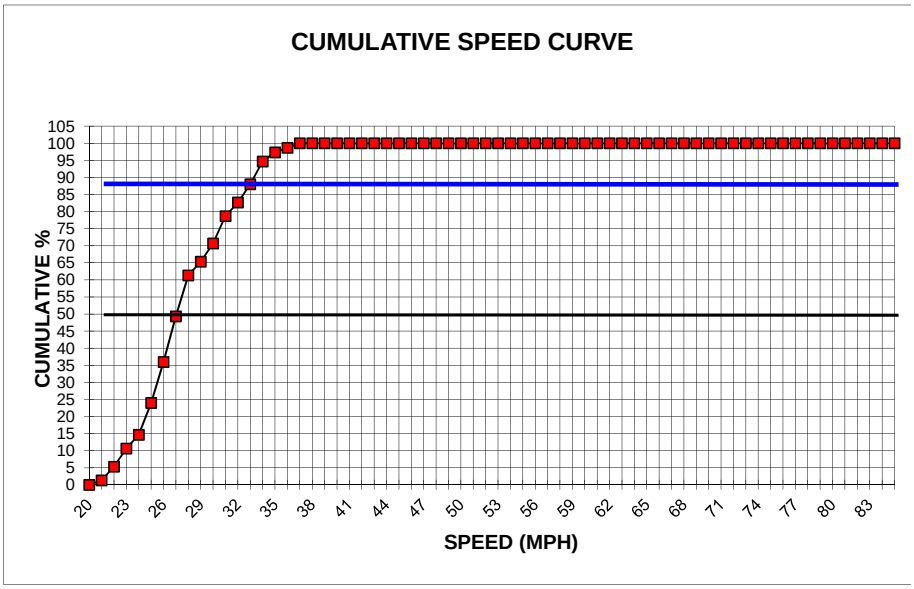
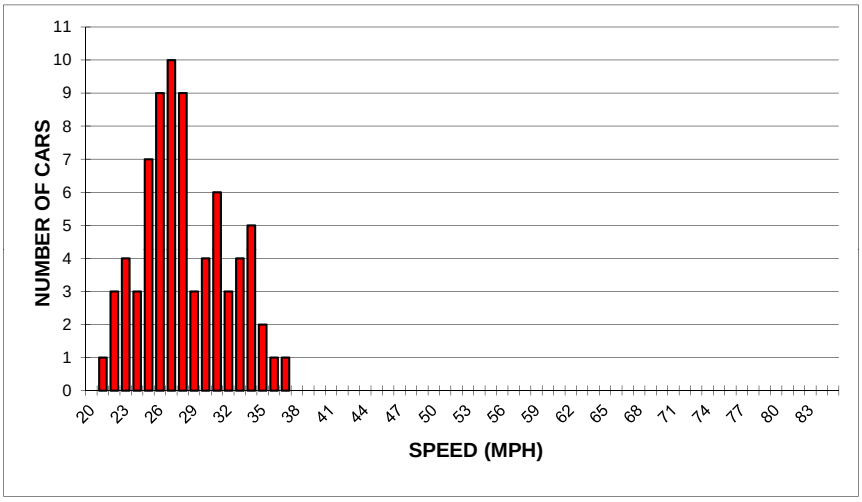
74	0	0	100
75	0	0	100





Loc 46 WB

SPEED ZONE SURVEY SHEET

City of Banning
Public Works Department
Kahono Oei, City Engineer

Street **Sun Lakes Blvd**
Segment: **From Highland Springs Ave to Country Club Gate**
DIRECTION: **Both Directions** DATE: 12/14/11
POSTED SPEED LIMITS: **35 MPH** TIME: 10:30 - 14:15
WEATHER: Clear

50th Percentile Speed			27.0
85th Percentile Speed			32.0
Number of Vehicles Observed			150
Average Speed			28
Range of Speeds	21	to	37

10 MPH Pace Speed	22	to	31
Percent in Pace Speed			79
Percent over Pace Speed			19
Percent under Pace Speed			3

Speed (MPH)	NO. (cars)	Pct. (%)	Cum. Pct. (%)
20	0	0	0
21	4	3	3
22	7	5	7
23	7	5	12
24	12	8	20
25	15	10	30
26	17	11	41
27	18	12	53
28	16	11	64
29	7	5	69
30	9	6	75
31	10	7	81
32	5	3	85
33	8	5	90
34	8	5	95
35	4	3	98
36	2	1	99
37	1	1	100
38	0	0	100
39	0	0	100
40	0	0	100
41	0	0	100
42	0	0	100
43	0	0	100
44	0	0	100
45	0	0	100
46	0	0	100
47	0	0	100
48	0	0	100
49	0	0	100
50	0	0	100
51	0	0	100
52	0	0	100
53	0	0	100
54	0	0	100
55	0	0	100
56	0	0	100
57	0	0	100
58	0	0	100
59	0	0	100
60	0	0	100
61	0	0	100
62	0	0	100
63	0	0	100
64	0	0	100
65	0	0	100
66	0	0	100
67	0	0	100
68	0	0	100
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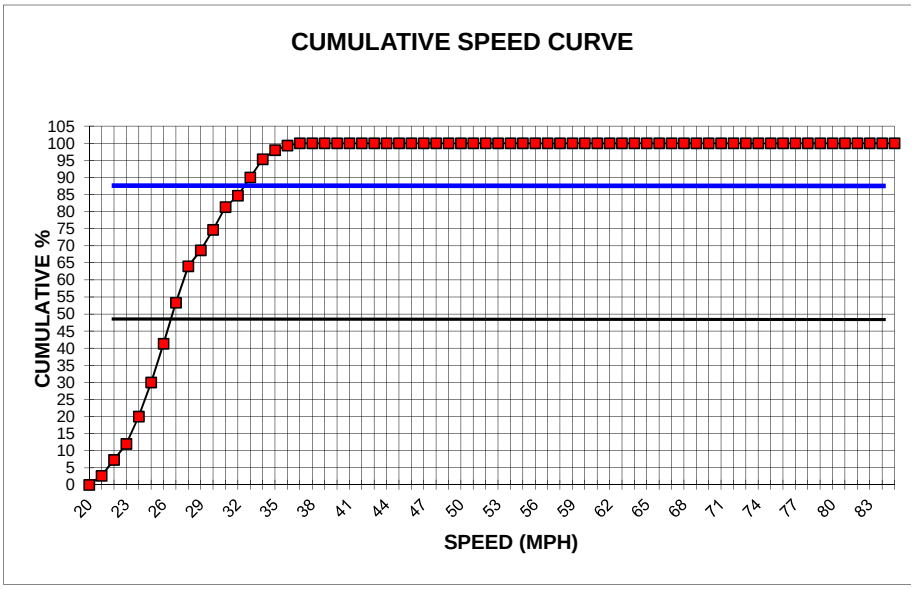

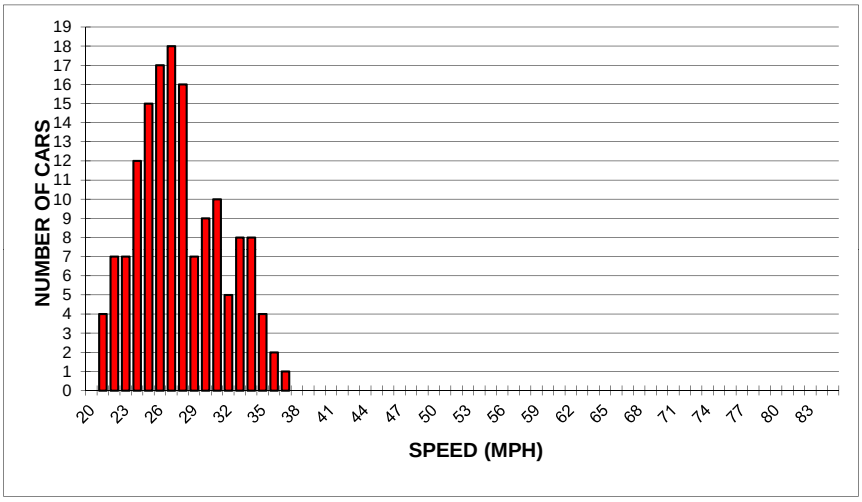

Loc 46 Both Dirs