

San Diego County Traffic Advisory Committee



Committee Secretary
5510 Overland Avenue #410, Room 470, M.S. 0-334
San Diego, California 92123-1239
(858) 694-3843

Represented Agencies

County of San Diego Fire Authority
California Department of
Transportation
California Highway Patrol
Independent Insurance Agents
& Brokers of San Diego
San Diego County Bicycle Coalition
San Diego County Department of
Public Works
San Diego County Office of Education
Pacific Safety Center
San Diego County Sheriff's
Department

December 3, 2019

TO: Community Planning/Sponsor Group Chairpersons

FROM: Secretary, Traffic Advisory Committee

MEETING NOTICE

Attached is the preliminary agenda for the December 13, 2019, meeting of the Traffic Advisory Committee (TAC). The meeting will begin at 9:00 AM in the following location:

Department of Public Works
Second Floor, Room 271
5510 Overland Avenue
San Diego, CA 92123

Your community group may have previously provided formal input on these matters and your group's recommendations would be included as part of the Chief Administrative Officer's report to the Board of Supervisors along with TAC recommendations. The Board of Supervisors will make a final decision as to what action will be taken after reviewing TAC recommendations and community group input, when available.

If your community planning/sponsor group representative would like to attend the TAC meeting and participate in the discussion of an item on this agenda, or if you do have any questions or need additional information regarding this procedure, please contact me at (858) 694-3843. TAC staff is available to provide background information on items and to answer questions you may have.

Very truly yours,

KRJ Kenton R. Jones, Secretary
San Diego County Traffic Advisory Committee

KRJ:bb

Attachment



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

December 13, 2019 ~ 9:00 AM

5510 Overland Ave, Room 271

San Diego CA, 92123

AGENDA

- I. Call to Order / Roll Call**
- II. Pledge of Allegiance**
- III. Approval of Minutes**
- IV. Items for Review**

SUBJECT		LOCATION	AREA	PLANNING/ SPONSOR GROUP
<u>SUPERVISORIAL DISTRICT 2</u>				
2-A.	RADAR RECERTIFICATION	WILLOWS RD	ALPINE	ALPINE
2-B.	RADAR RECERTIFICATION	BANCROFT DR/TROY ST	SPRING VALLEY	SPRING VALLEY
2-C.	RADAR RECERTIFICATION	JAMUL DR	JAMUL	VALLE DE ORO
2-D.	RADAR RECERTIFICATION	STEELE CAYON RD	JAMUL	VALLE DE ORO
2-E.	RADAR RECERTIFICATION	QUAIL CANYON RD	BLOSSOM VALLEY	LAKESIDE
2-F.	RADAR RECERTIFICATION	WOODSIDE AVE	LAKESIDE	LAKESIDE
2-G.	RADAR RECERTIFICATION	WOODSIDE AVE	LAKESIDE	LAKESIDE
2-H.	RADAR RECERTIFICATION	SECOND ST/ WINTER GARDENS ST	LAKESIDE	LAKESIDE
2-I.	INTERSECTION CONTROLS	LAKE JENNINGS PARK ROAD & JULIAN AVENUE / EL MONTE ROAD	LAKESIDE	LAKESIDE
2-J.	RADAR RECERTIFICATION	LAKEVIEW RD	LAKESIDE	LAKESIDE

SUBJECT		LOCATION	AREA	PLANNING/ SPONSOR GROUP
2-K.	RADAR CERTIFICATION	PALM ROW CREEK/ OAK CREEK DR	EUCALYPTUS HILLS	LAKESIDE
2-L.	RADAR RECERTIFICATION	VALLE VISTA ROAD	EUCALYPTUS HILLS	LAKESIDE
2-M.	RADAR RECERTIFICATION	VALLE VISTA ROAD	EUCALYPTUS HILLS	LAKESIDE
2-N.	RADAR RECERTIFICATION	JACKSON HILL DR	LAKESIDE	LAKESIDE
2-O.	RADAR RECERTIFICATION	WILLOW GLEN DR	RANCHO SAN DIEGO	VALLE DE ORO
2-P.	RADAR RECERTIFICATION	LEMON AVENUE	MOUNT HELIX	VALLE DE ORO
2-Q.	RADAR RECERTIFICATION	JAMACHA ROAD	LA PRESA	SPRING VALLEY
2-R.	RADAR RECERTIFICATION	APPLE STREET	LA PRESA	SPRING VALLEY
2-S.	RADAR CERTIFICATION	APPLE STREET	LA PRESA	SPRING VALLEY
<u>SUPERVISORIAL DISTRICT 5</u>				
5-A.	RADAR RECERTIFICATION	MISSION RD	FALLBROOK	FALLBROOK
5-B.	RADAR RECERTIFICATION	MISSION RD	FALLBROOK	FALLBROOK
5-C.	RADAR CERTIFICATION	MISSION RD	FALLBROOK	FALLBROOK
5-D.	RADAR RECERTIFICATION	WINTER HAVEN RD	FALLBROOK	FALLBROOK
5-E.	RADAR RECERTIFICATION	SUN VALLEY RD	RANCHO SANTA FE	SAN DIEGUITO
5-F.	RADAR RECERTIFICATION	VIA DE LA VALLE	RANCHO SANTA FE	SAN DIEGUITO

2-A. Radar Recertification

Willows Rd from West Willows Overcrossing to Viejas Grade Rd (0.78 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Willows Road	CERTIFICATION DATE	02/26/2020
FROM	West Willows Overcrossing	TO	Viejas Grade Rd
SEGMENT LENGTH	0.78 miles	AREA	Alpine

Prevailing Speeds: Posted Speed: **45 MPH**

Location	1,400' W/o Viejas Grade Rd
Date of Survey	04/23/2019
85th Percentile	49.8 MPH
10 MPH Pace	41-50
Percent in Pace	86%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	17
Statewide Average Collision Rate	1.8
Collisions per Million Vehicle Miles	1.73
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	6

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	11,515 vpd	Date Counted	4/25/2019
Number of Lanes	2	Road Striping	Center, Edge Lines
Mobility Element	Light Collector	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	40 - 50 ft	Travelled Lane Width	12-13 ft/ln
Road Curvature	Curvilinear	Available Shoulders	5-8 ft
Intersecting Roads	Minimal	Intersecting Driveways	Minimal
Pedestrian Pathways	None	Bike Lane/Route	No

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



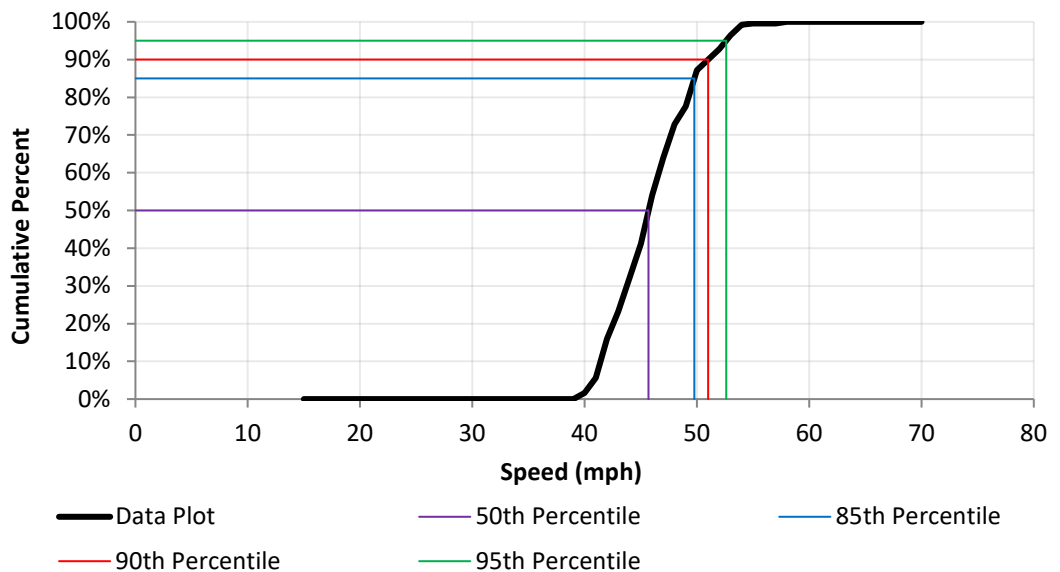
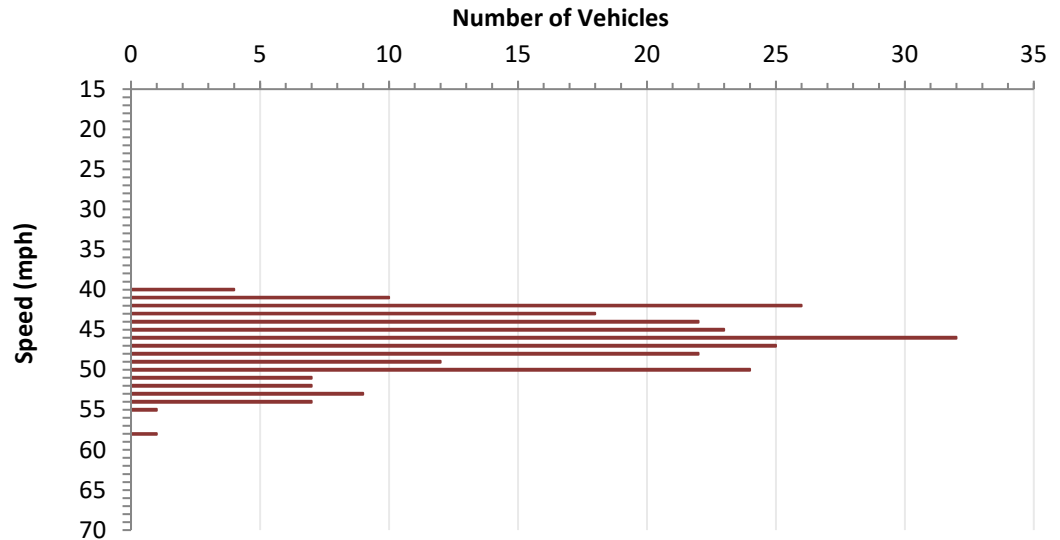
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Willows Rd	From:	Viejas Grade	To:	West Willows Overcrossing
Position:	1400' W/o Viejas Grade Rd	Direction:	EB/WB		

Date:	4/23/2019	Weather:	Clear	Project Number:	19-4189-003
Time Start:	11:50 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:50 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40	4	1.6%
41	10	5.6%
42	26	16.0%
43	18	23.2%
44	22	32.0%
45	23	41.2%
46	32	54.0%
47	25	64.0%
48	22	72.8%
49	12	77.6%
50	24	87.2%
51	7	90.0%
52	7	92.8%
53	9	96.4%
54	7	99.2%
55	1	99.6%
56		
57		
58	1	100.0%
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	250	



DATA ANALYSIS

Average Speed	46.5	Range	40 - 58
50th Percentile	45.7	10 mph Pace	41 - 50
85th Percentile	49.8	Number in Pace	214
90th Percentile	51.0	Percent in Pace	86%
95th Percentile	52.6		

VOLUME

Willows Rd 750' E/O West Willows Overcrossing

Day: Thursday
Date: 4/25/2019

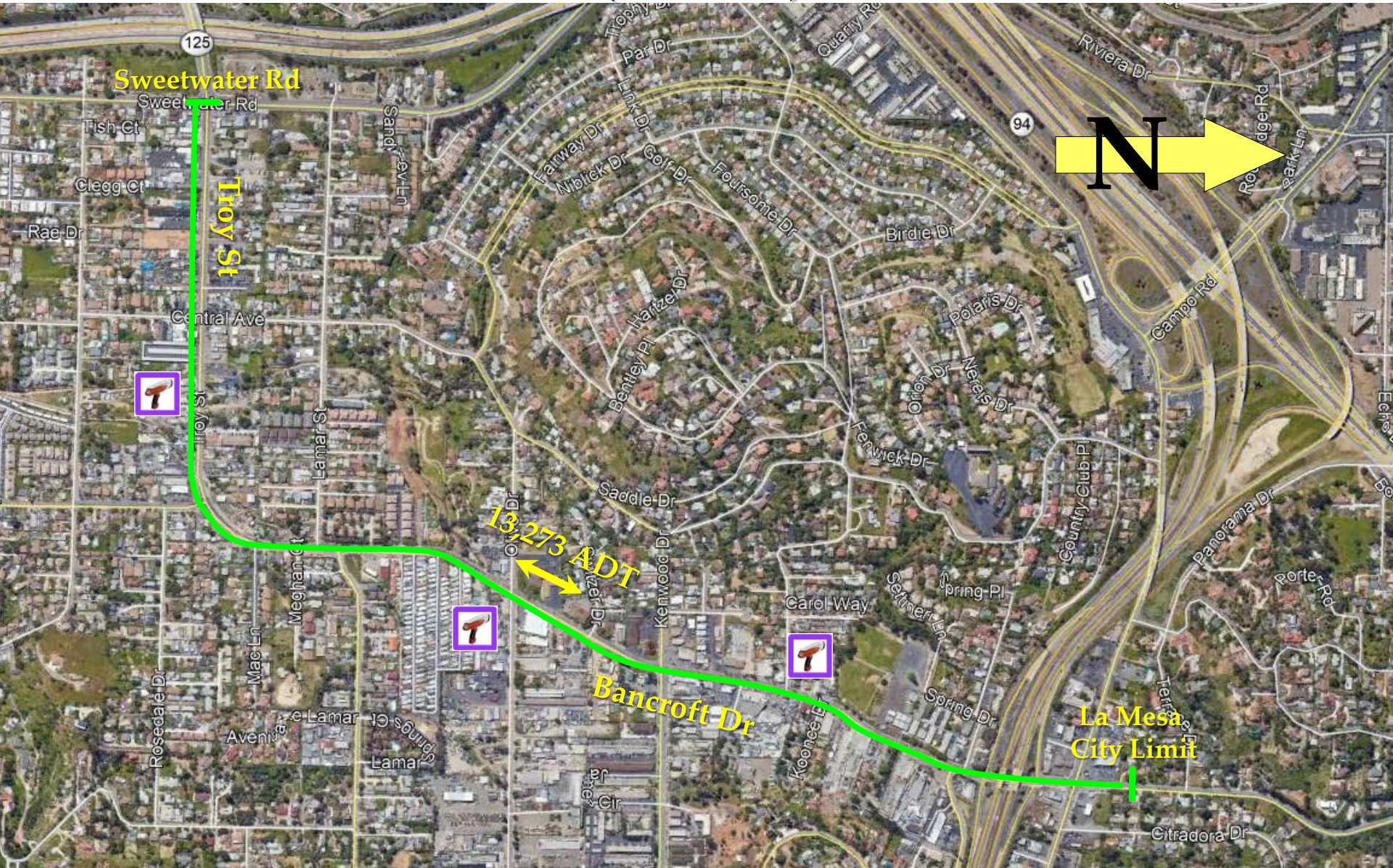
City: Alpine
Project #: CA19_4191_002

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						5,716	5,799						11,515
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			17	35	52		12:00			73	62	135							
00:15			9	28	37		12:15			74	66	140							
00:30			11	28	39		12:30			86	59	145							
00:45			20	57	23	114	12:45			90	323	82	269	172	592				
01:00			12	40	52		13:00			89	70	159							
01:15			8	24	32		13:15			98	65	163							
01:30			7	23	30		13:30			100	70	170							
01:45			8	35	22	109	13:45			76	363	61	266	137	629				
02:00			9	18	27		14:00			97	63	160							
02:15			5	17	22		14:15			114	74	188							
02:30			6	17	23		14:30			129	61	190							
02:45			11	31	7	59	14:45			109	449	63	261	172	710				
03:00			5	11	16		15:00			109	117	226							
03:15			10	17	27		15:15			104	122	226							
03:30			3	13	16		15:30			122	105	227							
03:45			8	26	17	58	15:45			128	463	122	466	250	929				
04:00			6	11	17		16:00			115	135	250							
04:15			7	18	25		16:15			135	125	260							
04:30			7	12	19		16:30			117	148	265							
04:45			4	24	12	53	16:45			126	493	124	532	250	1025				
05:00			5	19	24		17:00			125	121	246							
05:15			12	26	38		17:15			117	101	218							
05:30			10	30	40		17:30			143	95	238							
05:45			17	44	22	97	17:45			133	518	89	406	222	924				
06:00			10	23	33		18:00			110	126	236							
06:15			11	23	34		18:15			116	103	219							
06:30			16	28	44		18:30			137	94	231							
06:45			25	62	23	97	18:45			123	486	90	413	213	899				
07:00			14	36	50		19:00			113	94	207							
07:15			31	21	52		19:15			130	105	235							
07:30			49	33	82		19:30			113	90	203							
07:45			76	170	30	120	19:45			105	461	105	394	210	855				
08:00			62	38	100		20:00			118	99	217							
08:15			45	27	72		20:15			106	99	205							
08:30			43	38	81		20:30			81	114	195							
08:45			54	204	33	136	20:45			65	370	99	411	164	781				
09:00			56	42	98		21:00			34	112	146							
09:15			67	31	98		21:15			36	95	131							
09:30			57	40	97		21:30			35	112	147							
09:45			75	255	41	154	21:45			25	130	94	413	119	543				
10:00			42	48	90		22:00			30	95	125							
10:15			39	34	73		22:15			31	88	119							
10:30			40	38	78		22:30			30	84	114							
10:45			63	184	47	167	22:45			22	113	75	342	97	455				
11:00			56	46	102		23:00			32	71	103							
11:15			152	52	204		23:15			18	55	73							
11:30			84	55	139		23:30			25	63	88							
11:45			66	358	65	218	23:45			22	97	55	244	77	341				
TOTALS			1450	1382	2832		TOTALS			4266	4417	8683							
SPLIT %			51.2%	48.8%	24.6%		SPLIT %			49.1%	50.9%	75.4%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						5,716	5,799						11,515
AM Peak Hour			11:15	11:45	11:15		PM Peak Hour			17:00	16:00	15:45							
AM Pk Volume			375	252	609		PM Pk Volume			518	532	1025							
Pk Hr Factor			0.617	0.955	0.746		Pk Hr Factor			0.906	0.899	0.967							
7 - 9 Volume	0	0	374	256	630		4 - 6 Volume	0	0	1011	938	1949							
7 - 9 Peak Hour			07:30	08:00	07:30		4 - 6 Peak Hour			17:00	16:00	16:00							
7 - 9 Pk Volume	0	0	232	136	360		4 - 6 Pk Volume	0	0	518	532	1025							
Pk Hr Factor	0.000	0.000	0.763	0.895	0.849		Pk Hr Factor	0.000	0.000	0.906	0.899	0.967							

2-B. Radar Recertification

Bancroft Dr/Troy St from Sweetwater Rd to La Mesa City Limit (1.6 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Bancroft Dr/Troy St	CERTIFICATION DATE	02/26/2020
FROM	La Mesa City Limit (350' N/o Campo Rd)	TO	Sweetwater Rd
SEGMENT LENGTH	1.6 miles	AREA	Spring Valley

Prevailing Speeds: Posted Speed: **35 MPH**

Location	150' N/o Golf Dr	150' S/o Olive Dr	440' E/o Central Av	Speed Zone
Date of Survey	12/04/2018	12/04/2018	05/09/2019	05/09/2019
85 th Percentile	39.4 MPH	40.7 MPH	38.6 MPH	39.6 MPH
10 MPH Pace	32-41	33-42	28-37	31-40
Percent in Pace	91%	87%	77%	85%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	168
Statewide Average Collision Rate	1.03
Collisions per Million Vehicle Miles	7.24
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	55

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	13,273 vpd	Date Counted	05/23/2019
Number of Lanes	3	Road Striping	Center, Edge Lines, Bike Lanes
Mobility Element	Collector	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	44 ft
Roadbed Width	36 ft	Available Shoulders	0 - 22 ft
Road Curvature	Curvilinear	Intersecting Driveways	Many
Intersecting Roads	Many	Bike Lane/Route	Yes
Pedestrian Pathways	Sidewalk		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



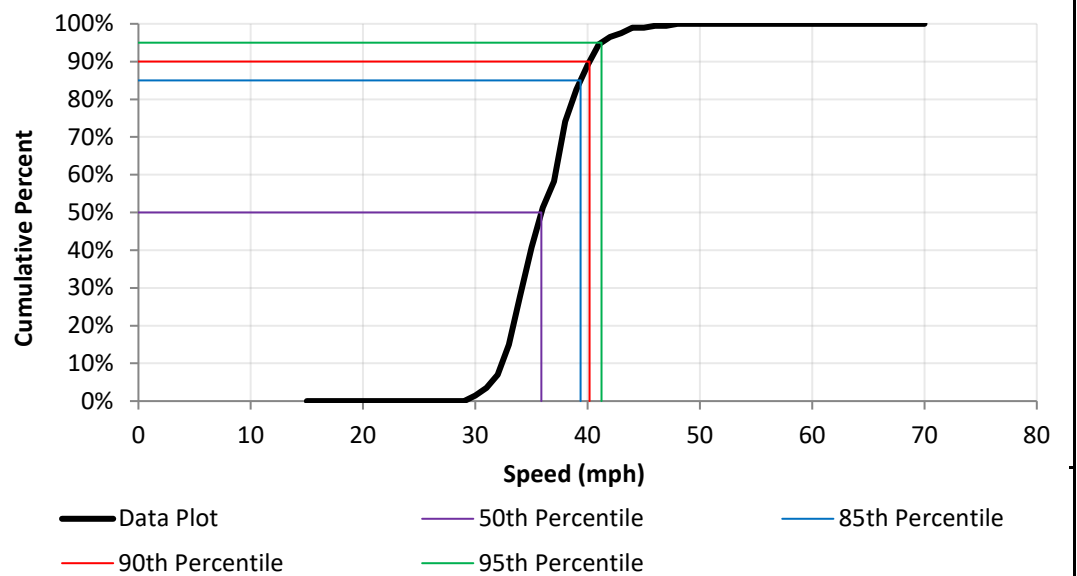
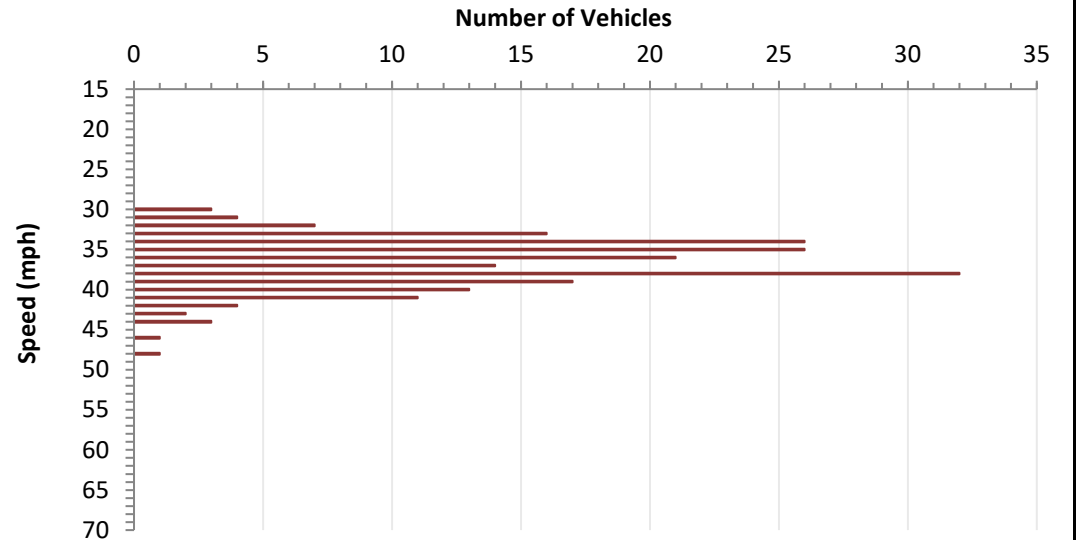
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Bancroft Dr/Troy St	From:	La Mesa City Limit	To:	Sweetwater Rd
Position:	Bancroft Dr 150' N/O Golf Dr	Direction:	NB/SB		

Date:	12/4/2018	Weather:	Clear	Project Number:	18-4457-024
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
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22		
23		
24		
25		
26		
27		
28		
29		
30	3	1.5%
31	4	3.5%
32	7	7.0%
33	16	14.9%
34	26	27.9%
35	26	40.8%
36	21	51.2%
37	14	58.2%
38	32	74.1%
39	17	82.6%
40	13	89.1%
41	11	94.5%
42	4	96.5%
43	2	97.5%
44	3	99.0%
45		
46	1	99.5%
47		
48	1	100.0%
49		
50		
51		
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68		
69		
70		
Total	201	



DATA ANALYSIS

Average Speed	36.6	Range	30 - 48
50th Percentile	35.9	10 mph Pace	32 - 41
85th Percentile	39.4	Number in Pace	183
90th Percentile	40.2	Percent in Pace	91%
95th Percentile	41.2		



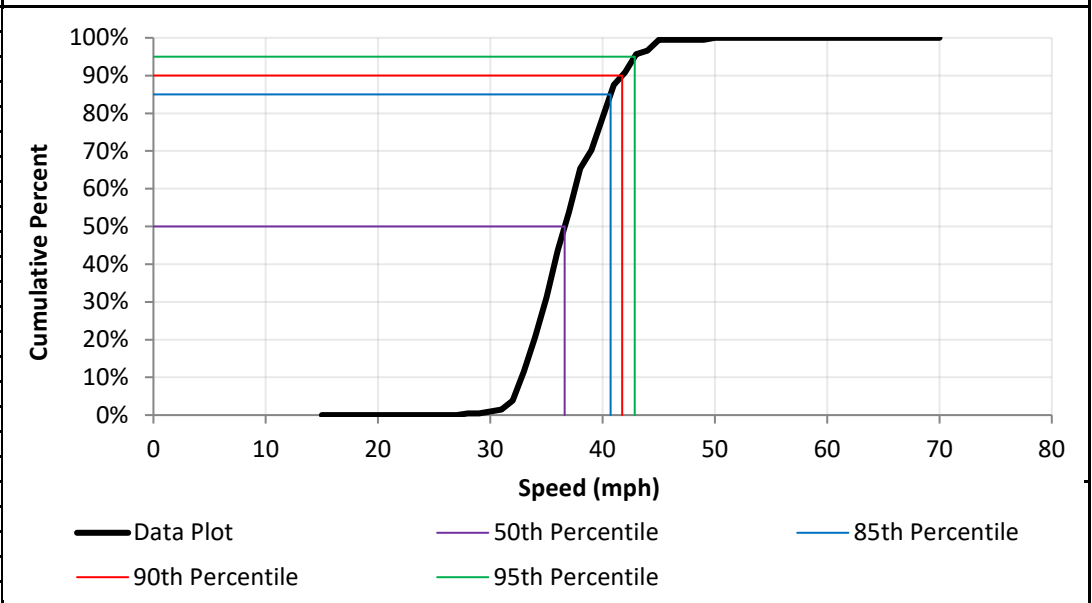
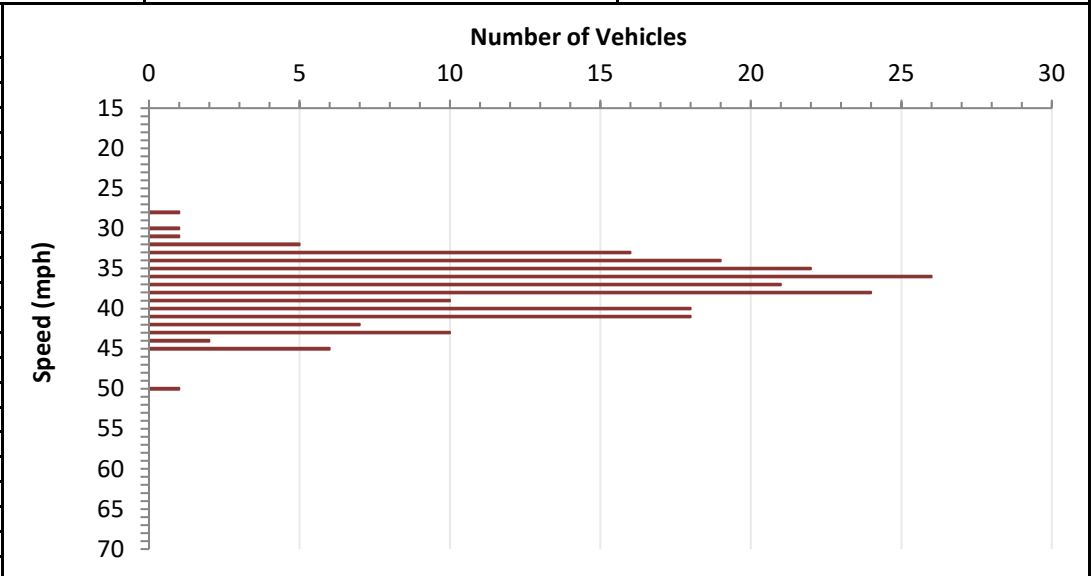
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Bancroft Dr/Troy St	From:	La Mesa City Limit	To:	Sweetwater Rd
Position:	Bancroft Dr 150' S/O Olive Dr	Direction:	NB/SB		

Date:	12/4/2018	Weather:	Clear	Project Number:	18-4457-024
Time Start:	9:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:15 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	1	0.5%
29		
30	1	1.0%
31	1	1.4%
32	5	3.8%
33	16	11.5%
34	19	20.7%
35	22	31.3%
36	26	43.8%
37	21	53.8%
38	24	65.4%
39	10	70.2%
40	18	78.8%
41	18	87.5%
42	7	90.9%
43	10	95.7%
44	2	96.6%
45	6	99.5%
46		
47		
48		
49		
50	1	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
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60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	208	



DATA ANALYSIS			
Average Speed	37.5	Range	28 - 50
50th Percentile	36.6	10 mph Pace	33 - 42
85th Percentile	40.7	Number in Pace	181
90th Percentile	41.7	Percent in Pace	87%
95th Percentile	42.9		



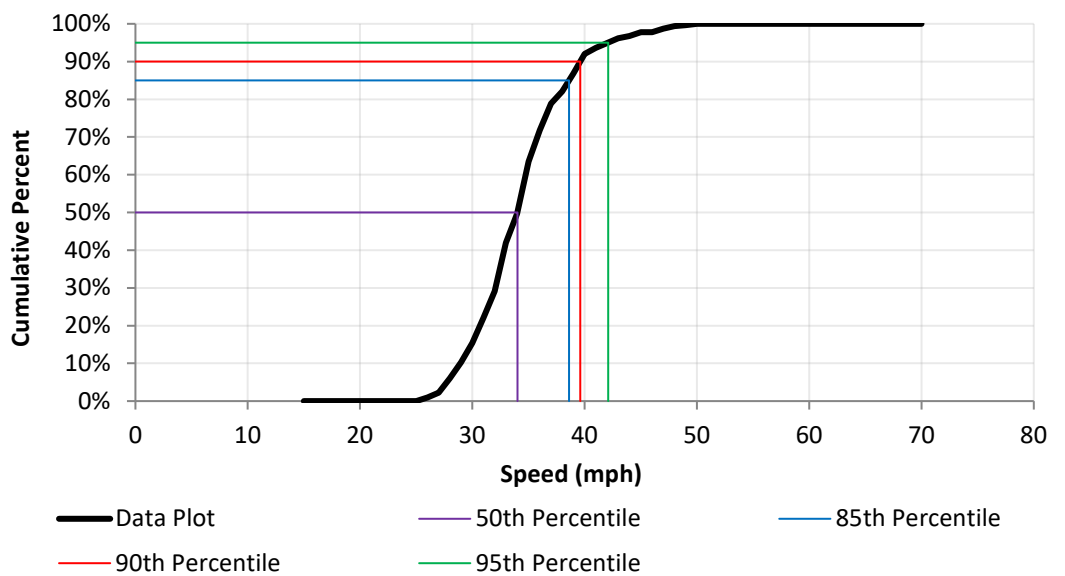
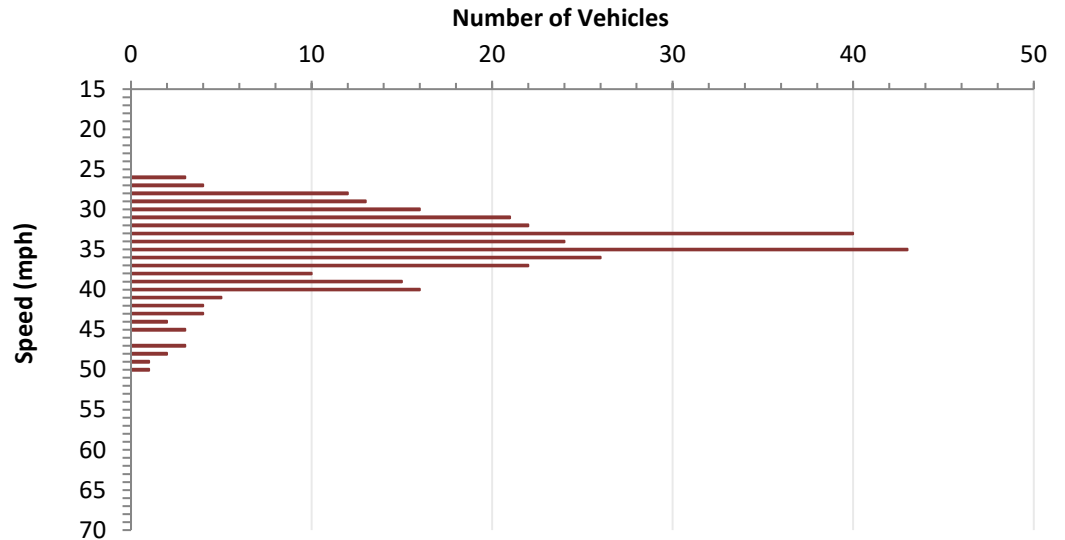
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Bancroft Dr/Troy St	From:	La Mesa City Limit	To:	Sweetwater Rd
Position:	Troy St, 440' E/o Central Av			Direction:	NB/SB

Date:	5/9/2019	Weather:	Clear	Project Number:	19-4219-034
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	3	1.0%
27	4	2.2%
28	12	6.1%
29	13	10.3%
30	16	15.4%
31	21	22.1%
32	22	29.2%
33	40	42.0%
34	24	49.7%
35	43	63.5%
36	26	71.8%
37	22	78.8%
38	10	82.1%
39	15	86.9%
40	16	92.0%
41	5	93.6%
42	4	94.9%
43	4	96.2%
44	2	96.8%
45	3	97.8%
46		
47	3	98.7%
48	2	99.4%
49	1	99.7%
50	1	100.0%
51		
52		
53		
54		
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57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	312	



DATA ANALYSIS

Average Speed	34.7	Range	26 - 50
50th Percentile	34.0	10 mph Pace	28 - 37
85th Percentile	38.6	Number in Pace	239
90th Percentile	39.6	Percent in Pace	77%
95th Percentile	42.1		

VOLUME

Bancroft Dr 260' N/O Olive Dr

Day: Tuesday
Date: 12/11/2018City: Spring Valley
Project #: CA18_4458_013

DAILY TOTALS					NB	SB						EB	WB						Total
					8,418	8,421						0	0						16,839
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	22	11			33		12:00	114	96			210							
00:15	13	26			39		12:15	115	101			216							
00:30	12	15			27		12:30	127	112			239							
00:45	14	61	15	67	29	128	12:45	108	464	121	430	229	894						
01:00	8	12			20		13:00	116	119			235							
01:15	12	13			25		13:15	130	126			256							
01:30	11	11			22		13:30	122	111			233							
01:45	16	47	14	50	30	97	13:45	129	497	131	487	260	984						
02:00	4	11			15		14:00	125	144			269							
02:15	3	12			15		14:15	135	145			280							
02:30	13	7			20		14:30	138	169			307							
02:45	7	27	7	37	14	64	14:45	133	531	172	630	305	1161						
03:00	8	8			16		15:00	130	181			311							
03:15	15	8			23		15:15	137	183			320							
03:30	11	2			13		15:30	140	191			331							
03:45	17	51	3	21	20	72	15:45	120	527	196	751	316	1278						
04:00	20	7			27		16:00	121	184			305							
04:15	24	8			32		16:15	128	173			301							
04:30	45	11			56		16:30	133	190			323							
04:45	40	129	18	44	58	173	16:45	145	527	178	725	323	1252						
05:00	60	11			71		17:00	141	204			345							
05:15	95	20			115		17:15	123	169			292							
05:30	97	30			127		17:30	123	192			315							
05:45	119	371	53	114	172	485	17:45	124	511	183	748	307	1259						
06:00	141	54			195		18:00	135	184			319							
06:15	124	54			178		18:15	114	147			261							
06:30	155	62			217		18:30	105	163			268							
06:45	171	591	84	254	255	845	18:45	106	460	145	639	251	1099						
07:00	175	82			257		19:00	102	144			246							
07:15	156	105			261		19:15	79	100			179							
07:30	186	94			280		19:30	105	125			230							
07:45	189	706	135	416	324	1122	19:45	70	356	114	483	184	839						
08:00	147	138			285		20:00	66	80			146							
08:15	180	124			304		20:15	67	98			165							
08:30	143	101			244		20:30	56	73			129							
08:45	127	597	111	474	238	1071	20:45	51	240	77	328	128	568						
09:00	124	96			220		21:00	70	62			132							
09:15	115	93			208		21:15	55	86			141							
09:30	114	95			209		21:30	60	68			128							
09:45	120	473	86	370	206	843	21:45	45	230	58	274	103	504						
10:00	106	82			188		22:00	31	50			81							
10:15	103	91			194		22:15	35	53			88							
10:30	113	87			200		22:30	33	45			78							
10:45	84	406	89	349	173	755	22:45	20	119	42	190	62	309						
11:00	98	107			205		23:00	22	42			64							
11:15	98	90			188		23:15	28	28			56							
11:30	114	98			212		23:30	24	35			59							
11:45	89	399	105	400	194	799	23:45	24	98	35	140	59	238						
TOTALS	3858	2596			6454		TOTALS	4560	5825			10385							
SPLIT %	59.8%	40.2%			38.3%		SPLIT %	43.9%	56.1%			61.7%							

DAILY TOTALS					NB	SB						EB	WB						Total
					8,418	8,421						0	0						16,839
AM Peak Hour	07:00	07:45			07:30		PM Peak Hour	16:15	15:15			16:15							
AM Pk Volume	706	498			1193		PM Pk Volume	547	754			1292							
Pk Hr Factor	0.934	0.902			0.921		Pk Hr Factor	0.943	0.962			0.936							
7 - 9 Volume	1303	890	0	0	2193		4 - 6 Volume	1038	1473	0	0	2511							
7 - 9 Peak Hour	07:00	07:45			07:30		4 - 6 Peak Hour	16:15	17:00			16:15							
7 - 9 Pk Volume	706	498	0	0	1193		4 - 6 Pk Volume	547	748	0	0	1292							
Pk Hr Factor	0.934	0.902	0.000	0.000	0.921		Pk Hr Factor	0.943	0.917	0.000	0.000	0.936							

VOLUME

Troy St E/O Central Ave

Day: Thursday
Date: 5/23/2019City: Spring Valley
Project #: CA19_4218_021

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						5,265	4,442						9,707
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			9	12	21		12:00			63	40	103							
00:15			9	7	16		12:15			65	49	114							
00:30			13	8	21		12:30			60	64	124							
00:45			7	38	12	39	12:45			53	241	47	200	100	441				
01:00			3	8	11		13:00			60	57	117							
01:15			7	9	16		13:15			73	57	130							
01:30			2	6	8		13:30			78	54	132							
01:45			7	19	3	26	13:45			66	277	62	230	128	507				
02:00			1	1	2		14:00			95	58	153							
02:15			1	5	6		14:15			82	77	159							
02:30			1	2	3		14:30			101	94	195							
02:45			2	5	2	10	14:45			121	399	91	320	212	719				
03:00			6	2	8		15:00			89	101	190							
03:15			1	0	1		15:15			85	90	175							
03:30			6	1	7		15:30			118	107	225							
03:45			3	16	3	6	15:45			121	413	108	406	229	819				
04:00			8	4	12		16:00			110	84	194							
04:15			7	6	13		16:15			118	108	226							
04:30			9	2	11		16:30			121	95	216							
04:45			8	32	4	16	16:45			102	451	90	377	192	828				
05:00			17	4	21		17:00			94	109	203							
05:15			15	6	21		17:15			99	118	217							
05:30			29	8	37		17:30			79	92	171							
05:45			51	112	17	35	17:45			108	380	94	413	202	793				
06:00			37	25	62		18:00			93	73	166							
06:15			40	27	67		18:15			81	61	142							
06:30			47	39	86		18:30			124	83	207							
06:45			68	192	50	141	18:45			93	391	61	278	154	669				
07:00			54	56	110		19:00			87	56	143							
07:15			63	78	141		19:15			92	53	145							
07:30			94	88	182		19:30			70	55	125							
07:45			103	314	92	314	19:45			68	317	59	223	127	540				
08:00			91	89	180		20:00			60	64	124							
08:15			85	55	140		20:15			63	38	101							
08:30			67	64	131		20:30			40	45	85							
08:45			62	305	44	252	20:45			59	222	49	196	108	418				
09:00			74	53	127		21:00			61	42	103							
09:15			63	53	116		21:15			61	50	111							
09:30			43	50	93		21:30			48	43	91							
09:45			50	230	46	202	21:45			35	205	25	160	60	365				
10:00			53	44	97		22:00			53	28	81							
10:15			54	48	102		22:15			19	23	42							
10:30			55	56	111		22:30			31	24	55							
10:45			57	219	57	205	22:45			30	133	20	95	50	228				
11:00			64	70	134		23:00			24	17	41							
11:15			64	56	120		23:15			26	12	38							
11:30			72	61	133		23:30			25	8	33							
11:45			53	253	55	242	23:45			26	101	19	56	45	157				
TOTALS			1735	1488	3223		TOTALS			3530	2954	6484							
SPLIT %			53.8%	46.2%	33.2%		SPLIT %			54.4%	45.6%	66.8%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						5,265	4,442						9,707
AM Peak Hour			07:30	07:15	07:15		PM Peak Hour			15:45	17:00	15:30							
AM Pk Volume			373	347	698		PM Pk Volume			470	413	874							
Pk Hr Factor			0.905	0.943	0.895		Pk Hr Factor			0.971	0.875	0.954							
7 - 9 Volume	0	0	619	566	1185		4 - 6 Volume	0	0	831	790	1621							
7 - 9 Peak Hour			07:30	07:15	07:15		4 - 6 Peak Hour			16:00	17:00	16:15							
7 - 9 Pk Volume	0	0	373	347	698		4 - 6 Pk Volume	0	0	451	413	837							
Pk Hr Factor	0.000	0.000	0.905	0.943	0.895		Pk Hr Factor	0.000	0.000	0.932	0.875	0.926							

Jamul Dr from Steele Cyn Rd to Lyons Valley Rd (3.12 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Jamul Drive	CERTIFICATION DATE	02/26/2020
FROM	Steele Canyon Road	TO	Lyons Valley Road
SEGMENT LENGTH	3.12 miles	AREA	Jamul/Dulzura

Prevailing Speeds: Posted Speed: **45 MPH**

Location	200' W/o Cottonwood Springs Ln	2,460' E/o Fowler Cyn Rd	1,500' W/o Yucca St	Speed Zone
Date of Survey	11/28/2018	11/28/2018	11/28/2018	11/28/2018
85 th Percentile	48.5 MPH	51.2 MPH	44.1 MPH	47.9 MPH
10 MPH Pace	41-50	43-52	36-45	40-49
Percent in Pace	87%	77%	93%	85.7%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	21
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	1.28
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	11

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	4,820 vpd	Date Counted	12/11/2018
Number of Lanes	2	Road Striping	Centerline, Painted Median, Edge Lines
Mobility Element	Light Collector	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	20 ft lane
Roadbed Width	26 -65 ft	Available Shoulders	2 – 8 ft
Road Curvature	Curvilinear	Intersecting Driveways	Minimal
Intersecting Roads	Minimal	Bike Lane/Route	Bike Lane
Pedestrian Pathways	Partially Sidewalk		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date

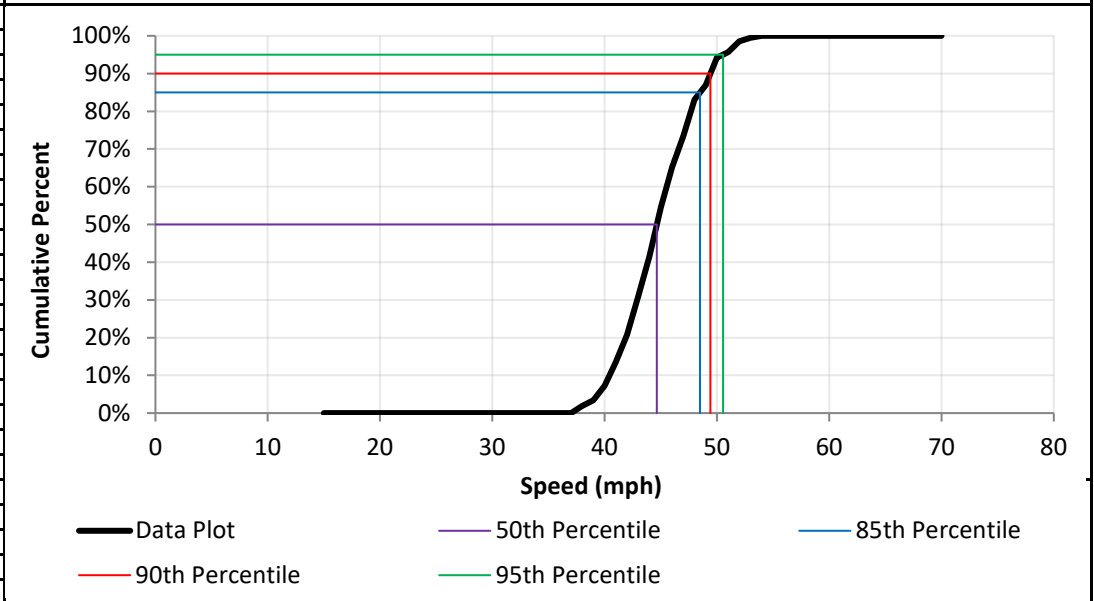
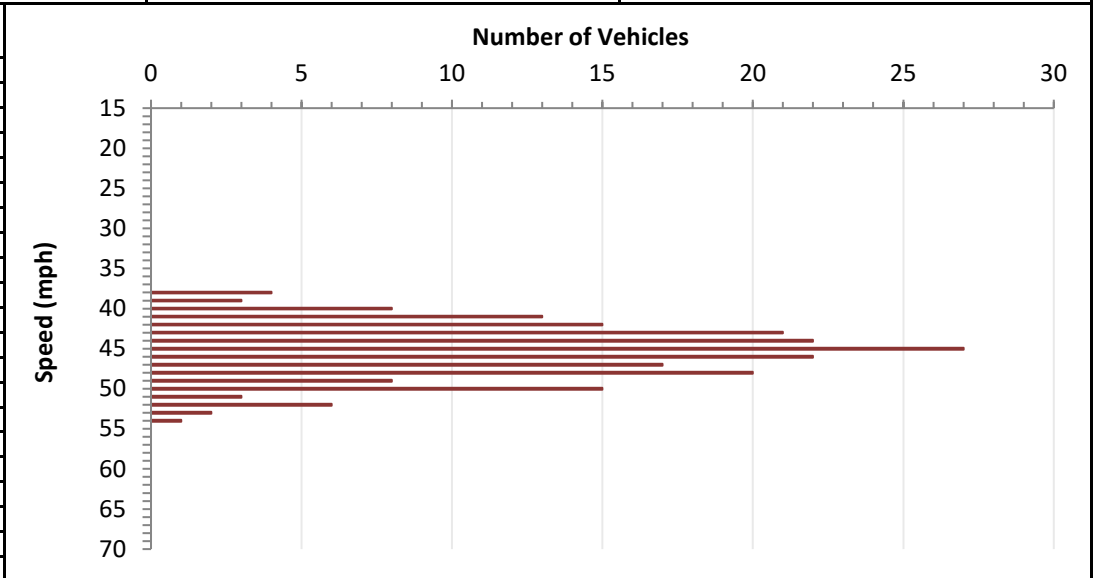


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jamul Dr	From:	Steele Cyn Rd	To:	Lyons Valley Rd
Position:	200' W/o Cottonwood Springs Ln	Direction:	EB/WB		
Date:	11/28/2019	Weather:	Clear	Project Number:	0
Time Start:	1:00 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:00 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38	4	1.9%
39	3	3.4%
40	8	7.2%
41	13	13.5%
42	15	20.8%
43	21	30.9%
44	22	41.5%
45	27	54.6%
46	22	65.2%
47	17	73.4%
48	20	83.1%
49	8	87.0%
50	15	94.2%
51	3	95.7%
52	6	98.6%
53	2	99.5%
54	1	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	207	



DATA ANALYSIS

Average Speed	45.3	Range	38 - 54
50th Percentile	44.6	10 mph Pace	41 - 50
85th Percentile	48.5	Number in Pace	180
90th Percentile	49.4	Percent in Pace	87%
95th Percentile	50.6		



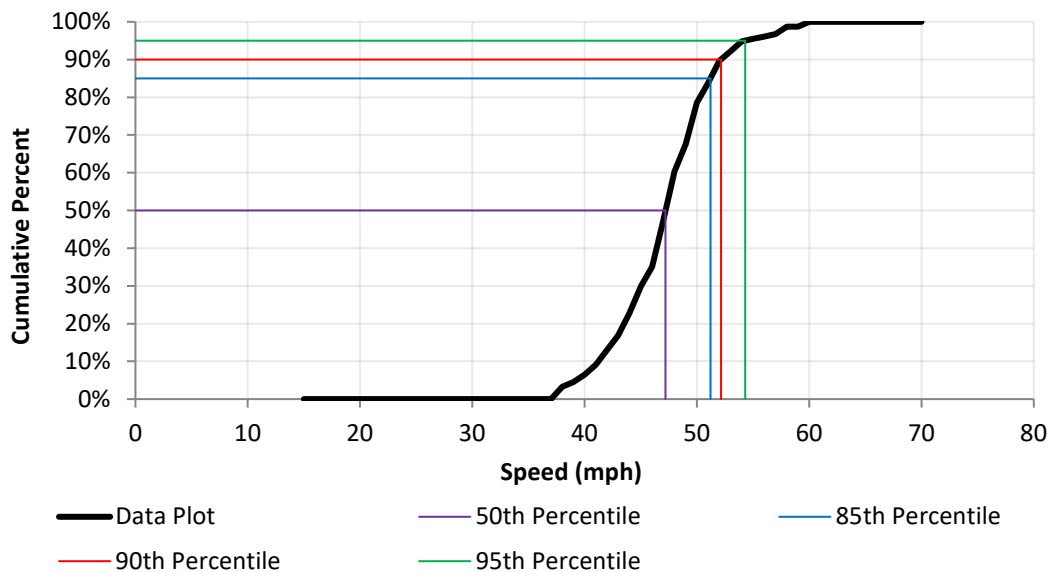
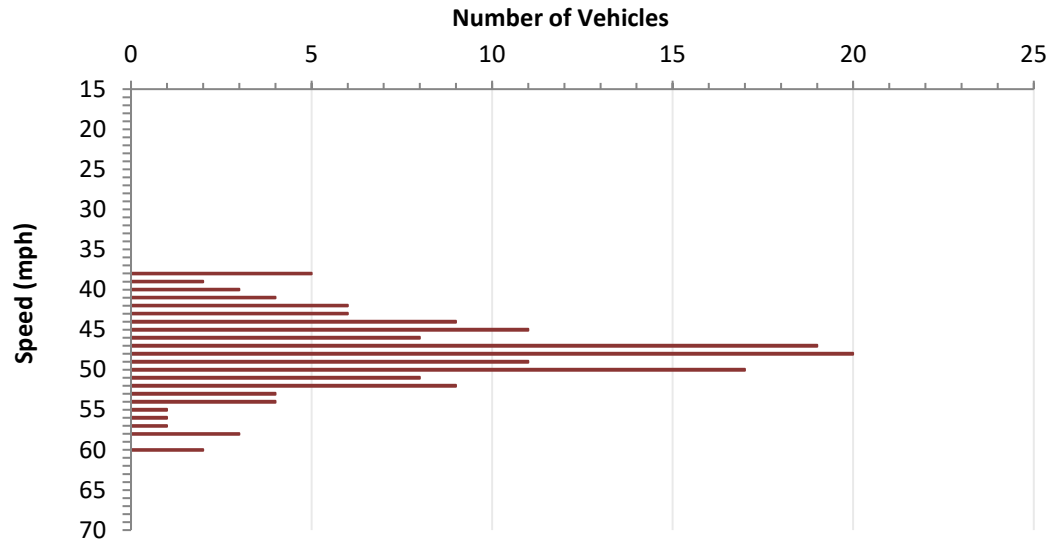
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jamul Dr	From:	Steele Cyn Rd	To:	Lyons Valley Rd
Position:	2,460' E/o Fowler Cyn Rd	Direction:	EB/WB		

Date:	11/28/2019	Weather:	Clear	Project Number:	0
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38	5	3.2%
39	2	4.5%
40	3	6.5%
41	4	9.1%
42	6	13.0%
43	6	16.9%
44	9	22.7%
45	11	29.9%
46	8	35.1%
47	19	47.4%
48	20	60.4%
49	11	67.5%
50	17	78.6%
51	8	83.8%
52	9	89.6%
53	4	92.2%
54	4	94.8%
55	1	95.5%
56	1	96.1%
57	1	96.8%
58	3	98.7%
59		
60	2	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	154	



DATA ANALYSIS

Average Speed	47.6	Range	38 - 60
50th Percentile	47.2	10 mph Pace	43 - 52
85th Percentile	51.2	Number in Pace	118
90th Percentile	52.2	Percent in Pace	77%
95th Percentile	54.3		

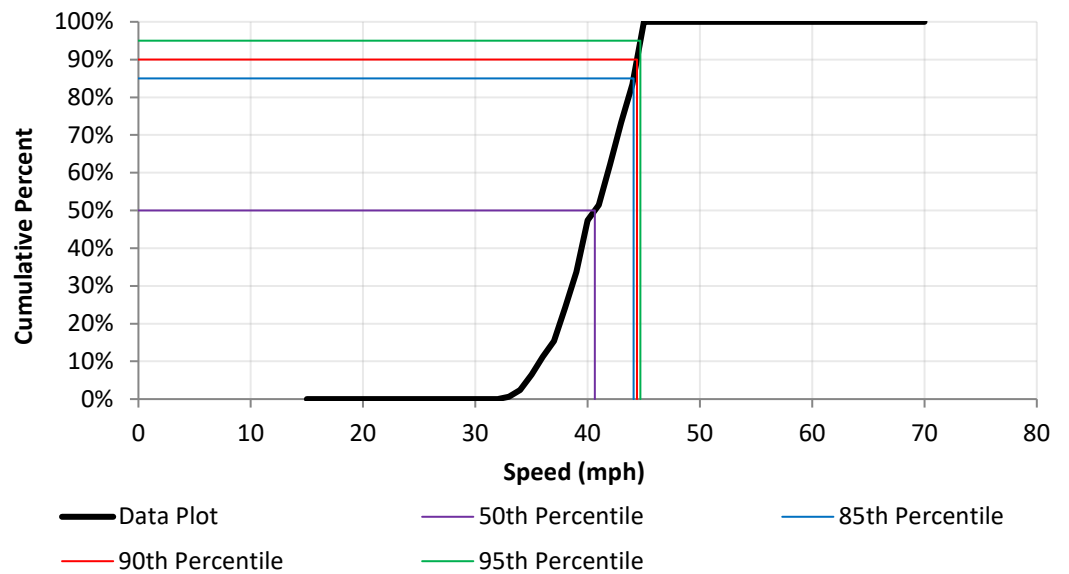
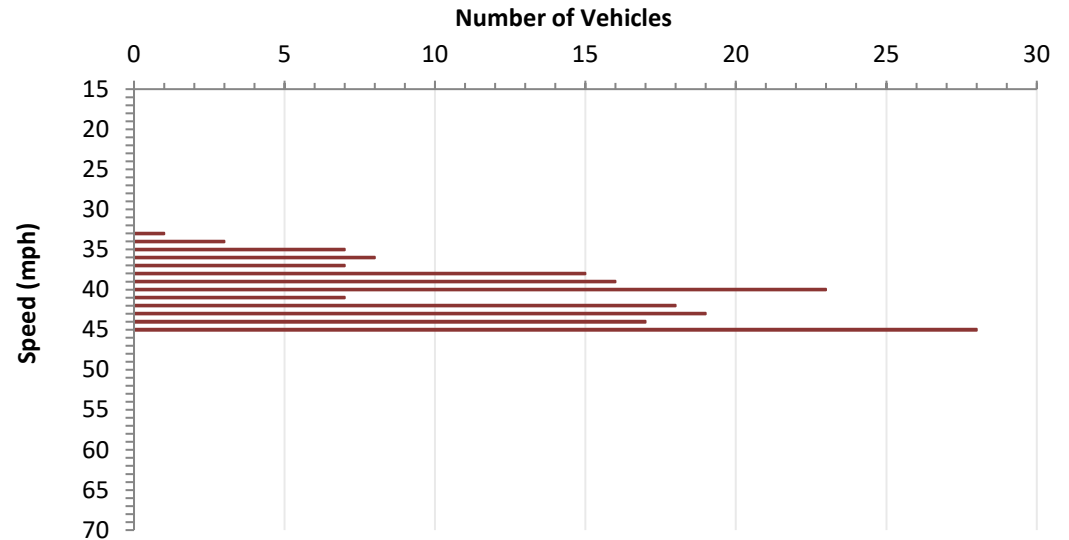


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jamul Dr	From:	Steele Cyn Rd	To:	Lyons Valley Rd
Position:	1,500' W/o Yucca St	Direction:	EB/WB		
Date:	11/28/2019	Weather:	Clear	Project Number:	0
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33	1	0.6%
34	3	2.4%
35	7	6.5%
36	8	11.2%
37	7	15.4%
38	15	24.3%
39	16	33.7%
40	23	47.3%
41	7	51.5%
42	18	62.1%
43	19	73.4%
44	17	83.4%
45	28	100.0%
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	169	



DATA ANALYSIS

Average Speed	40.9	Range	33 - 45
50th Percentile	40.6	10 mph Pace	36 - 45
85th Percentile	44.1	Number in Pace	158
90th Percentile	44.4	Percent in Pace	93%
95th Percentile	44.7		

VOLUME

Jamul Dr 700' W/O Mile Post 1.5

Day: Tuesday
Date: 12/11/2018City: Jamul
Project #: CA18_4458_011

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						2,584	2,236						4,820
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			4	0	4		12:00			32	30	62							
00:15			4	3	7		12:15			28	27	55							
00:30			3	2	5		12:30			39	29	68							
00:45			1	12	1	6	12:45			35	134	21	107	56	241				
01:00			3	0	3		13:00			42	26	68							
01:15			0	1	1		13:15			41	27	68							
01:30			2	1	3		13:30			36	44	80							
01:45			2	7	0	2	13:45			42	161	44	141	86	302				
02:00			3	0	3		14:00			57	33	90							
02:15			2	1	3		14:15			41	36	77							
02:30			0	1	1		14:30			68	41	109							
02:45			0	5	0	2	14:45			49	215	43	153	92	368				
03:00			0	0	0		15:00			59	46	105							
03:15			1	2	3		15:15			69	42	111							
03:30			1	4	5		15:30			67	43	110							
03:45			0	2	1	7	15:45			79	274	37	168	116	442				
04:00			0	3	3		16:00			58	42	100							
04:15			1	3	4		16:15			64	31	95							
04:30			5	9	14		16:30			70	37	107							
04:45			9	15	5	20	16:45			67	259	33	143	100	402				
05:00			3	9	12		17:00			59	45	104							
05:15			5	6	11		17:15			70	30	100							
05:30			10	25	35		17:30			66	21	87							
05:45			14	32	22	62	17:45			70	265	46	142	116	407				
06:00			6	32	38		18:00			60	24	84							
06:15			10	46	56		18:15			66	21	87							
06:30			9	59	68		18:30			48	19	67							
06:45			14	39	77	214	18:45			47	221	11	75	58	296				
07:00			17	98	115		19:00			39	12	51							
07:15			31	88	119		19:15			36	13	49							
07:30			24	76	100		19:30			33	9	42							
07:45			23	95	58	320	19:45			37	145	8	42	45	187				
08:00			39	46	85		20:00			25	14	39							
08:15			39	47	86		20:15			24	6	30							
08:30			30	53	83		20:30			30	5	35							
08:45			18	126	42	188	20:45			16	95	6	31	22	126				
09:00			37	45	82		21:00			12	8	20							
09:15			21	35	56		21:15			17	3	20							
09:30			30	31	61		21:30			20	6	26							
09:45			17	105	42	153	21:45			16	65	4	21	20	86				
10:00			26	28	54		22:00			18	1	19							
10:15			34	33	67		22:15			16	2	18							
10:30			29	25	54		22:30			8	8	16							
10:45			33	122	25	111	22:45			10	52	0	11	10	63				
11:00			29	27	56		23:00			5	2	7							
11:15			30	24	54		23:15			7	6	13							
11:30			35	23	58		23:30			2	1	3							
11:45			26	120	33	107	23:45			4	18	1	10	5	28				
TOTALS			680	1192	1872		TOTALS			1904	1044	2948							
SPLIT %			36.3%	63.7%	38.8%		SPLIT %			64.6%	35.4%	61.2%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						2,584	2,236						4,820
AM Peak Hour			07:45	06:45	06:45		PM Peak Hour			15:00	14:45	15:00							
AM Pk Volume			131	339	425		PM Pk Volume			274	174	442							
Pk Hr Factor			0.840	0.865	0.893		Pk Hr Factor			0.867	0.946	0.953							
7 - 9 Volume	0	0	221	508	729		4 - 6 Volume	0	0	524	285	809							
7 - 9 Peak Hour			07:45	07:00	07:00		4 - 6 Peak Hour			16:30	16:15	16:30							
7 - 9 Pk Volume	0	0	131	320	415		4 - 6 Pk Volume	0	0	266	146	411							
Pk Hr Factor	0.000	0.000	0.840	0.816	0.872		Pk Hr Factor	0.000	0.000	0.950	0.811	0.960							

2-D. Radar Recertification

Steele Cyn Rd from SR-94 to Willow Glen Dr (1.47 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Steele Canyon Rd	CERTIFICATION DATE	02/26/2020
FROM	SR-94 (Campo Rd)	TO	Willow Glen Dr
SEGMENT LENGTH	1.47 miles	AREA	Jamul

Prevailing Speeds: Posted Speed: **45 MPH**

Location	800' N/o Jamul Dr	@ Vista Cielo Dr	Speed Zone
Date of Survey	5/8/2019	5/9/2019	5/9/2019
85 th Percentile	49.1 MPH	48.1 MPH	48.6 MPH
10 MPH Pace	39-48	38-47	39-48
Percent in Pace	78%	75%	76.5%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	27
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	1.51
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	9

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	11,106 vpd	Date Counted	05/22/2019
Number of Lanes	2	Road Striping	Center, Edge Lines, Bike Lanes
Mobility Element	Major Road	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	12 ft lane
Roadbed Width	38 - 64 ft	Available Shoulders	7 – 20 ft
Road Curvature	Curvilinear	Intersecting Driveways	Minimal
Intersecting Roads	Some	Bike Lane/Route	Partially
Pedestrian Pathways	Partially Sidewalk		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



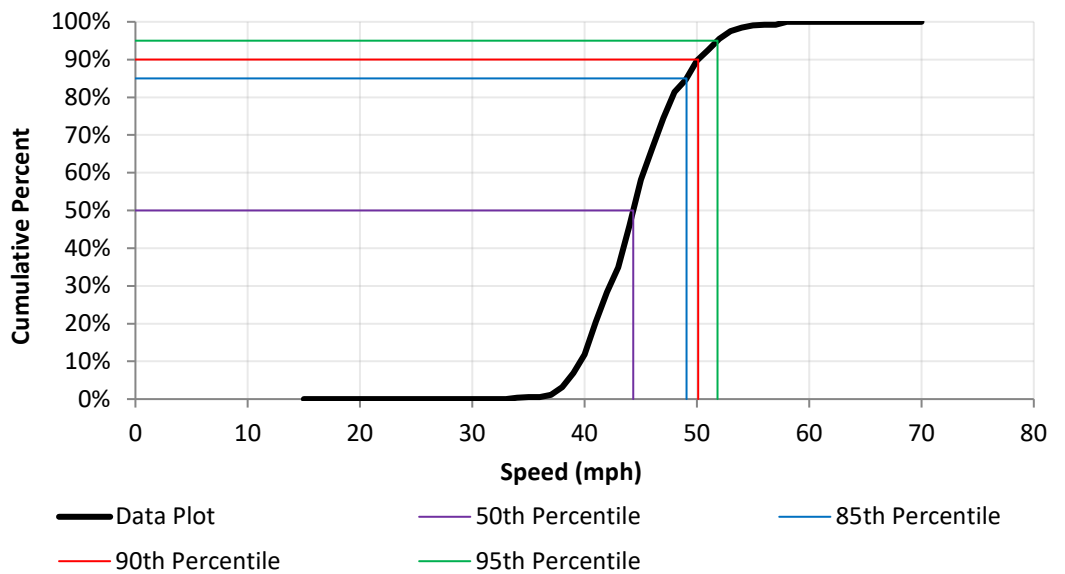
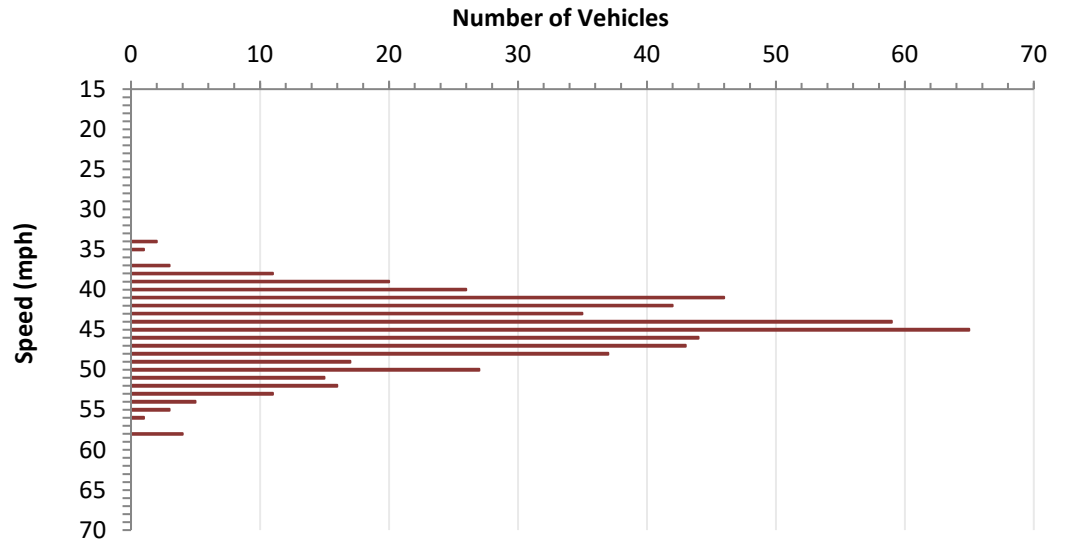
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Steele Canyon Rd	From:	Willow Glen Dr	To:	SR-94
Position:	Steele Canyon Rd 800' N/O Jamul Dr	Direction:	NB/SB		

Date:	5/8/2019	Weather:	Clear	Project Number:	19-4219-035
Time Start:	11:45 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:45 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34	2	0.4%
35	1	0.6%
36		
37	3	1.1%
38	11	3.2%
39	20	6.9%
40	26	11.8%
41	46	20.5%
42	42	28.3%
43	35	34.9%
44	59	46.0%
45	65	58.2%
46	44	66.4%
47	43	74.5%
48	37	81.4%
49	17	84.6%
50	27	89.7%
51	15	92.5%
52	16	95.5%
53	11	97.6%
54	5	98.5%
55	3	99.1%
56	1	99.2%
57		
58	4	100.0%
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	533	



DATA ANALYSIS

Average Speed	45.1	Range	34 - 58
50th Percentile	44.3	10 mph Pace	39 - 48
85th Percentile	49.1	Number in Pace	417
90th Percentile	50.1	Percent in Pace	78%
95th Percentile	51.8		



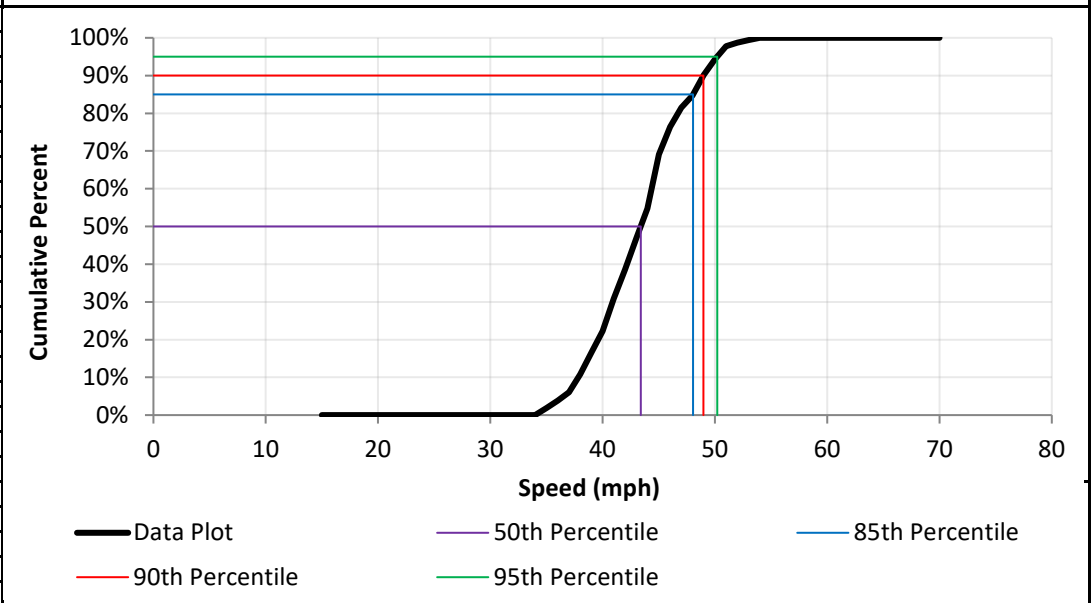
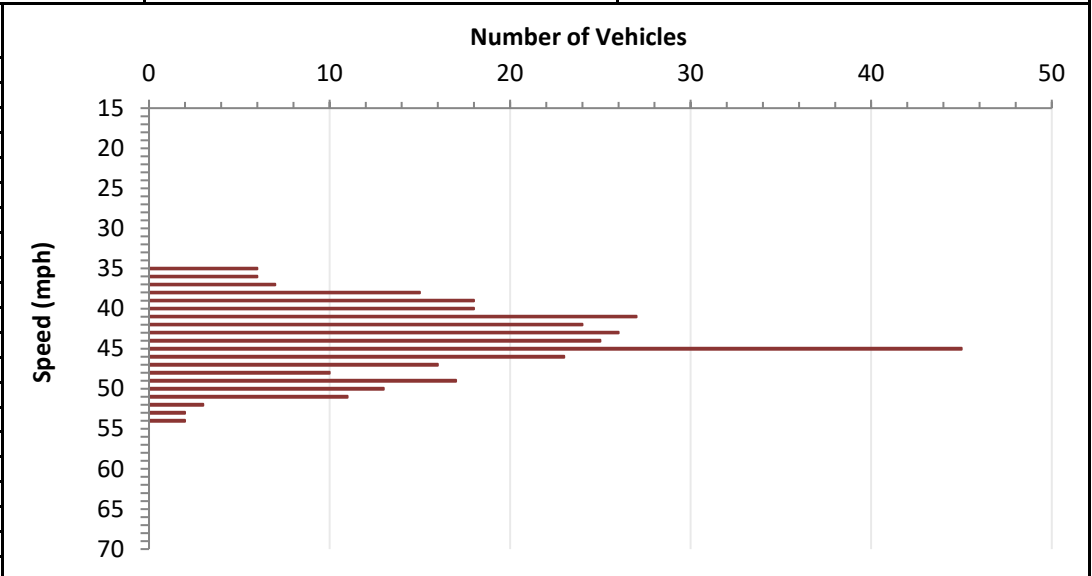
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Steele Canyon Rd	From:	Willow Glen Dr	To:	SR-94
Position:	Steele Canyon Rd @ Vista Cielo Dr	Direction:	NB/SB		

Date:	5/9/2019	Weather:	Clear	Project Number:	19-4219-036
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	6	1.9%
36	6	3.8%
37	7	6.1%
38	15	10.8%
39	18	16.6%
40	18	22.3%
41	27	30.9%
42	24	38.5%
43	26	46.8%
44	25	54.8%
45	45	69.1%
46	23	76.4%
47	16	81.5%
48	10	84.7%
49	17	90.1%
50	13	94.3%
51	11	97.8%
52	3	98.7%
53	2	99.4%
54	2	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	314	



DATA ANALYSIS

Average Speed	43.8	Range	35 - 54
50th Percentile	43.4	10 mph Pace	38 - 47
85th Percentile	48.1	Number in Pace	237
90th Percentile	49.0	Percent in Pace	75%
95th Percentile	50.2		

VOLUME

Steele Canyon Rd 300' S/O Willow Glen Dr

Day: Wednesday
Date: 5/22/2019City: Jamul
Project #: CA19_4218_022

DAILY TOTALS					NB	SB						EB	WB						Total
					7,343	8,057						0	0						15,400
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	15	14			29		12:00	88	101			189							
00:15	9	14			23		12:15	77	99			176							
00:30	10	23			33		12:30	89	125			214							
00:45	18	52	14	65	32	117	12:45	103	357	143	468	246	825						
01:00	7	8			15		13:00	124	129			253							
01:15	8	8			16		13:15	96	122			218							
01:30	5	7			12		13:30	122	150			272							
01:45	10	30	3	26	13	56	13:45	122	464	170	571	292	1035						
02:00	5	2			7		14:00	206	166			372							
02:15	8	4			12		14:15	142	182			324							
02:30	8	1			9		14:30	116	151			267							
02:45	7	28	3	10	10	38	14:45	167	631	159	658	326	1289						
03:00	5	0			5		15:00	170	175			345							
03:15	3	6			9		15:15	170	176			346							
03:30	19	3			22		15:30	137	195			332							
03:45	6	33	1	10	7	43	15:45	108	585	158	704	266	1289						
04:00	7	6			13		16:00	124	218			342							
04:15	11	2			13		16:15	122	170			292							
04:30	17	6			23		16:30	95	181			276							
04:45	19	54	6	20	25	74	16:45	88	429	180	749	268	1178						
05:00	19	6			25		17:00	95	185			280							
05:15	31	18			49		17:15	103	172			275							
05:30	48	14			62		17:30	85	205			290							
05:45	75	173	18	56	93	229	17:45	94	377	186	748	280	1125						
06:00	103	19			122		18:00	79	171			250							
06:15	96	26			122		18:15	74	150			224							
06:30	127	39			166		18:30	68	131			199							
06:45	116	442	72	156	188	598	18:45	48	269	145	597	193	866						
07:00	156	75			231		19:00	49	114			163							
07:15	167	81			248		19:15	58	105			163							
07:30	200	103			303		19:30	78	102			180							
07:45	226	749	202	461	428	1210	19:45	52	237	91	412	143	649						
08:00	217	109			326		20:00	60	89			149							
08:15	160	150			310		20:15	43	97			140							
08:30	194	152			346		20:30	65	92			157							
08:45	156	727	123	534	279	1261	20:45	38	206	75	353	113	559						
09:00	137	98			235		21:00	58	60			118							
09:15	113	79			192		21:15	37	55			92							
09:30	97	71			168		21:30	41	53			94							
09:45	85	432	58	306	143	738	21:45	36	172	57	225	93	397						
10:00	83	79			162		22:00	30	46			76							
10:15	82	69			151		22:15	30	51			81							
10:30	98	82			180		22:30	20	33			53							
10:45	74	337	84	314	158	651	22:45	24	104	21	151	45	255						
11:00	103	75			178		23:00	12	29			41							
11:15	89	102			191		23:15	16	35			51							
11:30	107	84			191		23:30	20	18			38							
11:45	89	388	95	356	184	744	23:45	19	67	25	107	44	174						
TOTALS	3445	2314			5759		TOTALS	3898	5743			9641							
SPLIT %	59.8%	40.2%			37.4%		SPLIT %	40.4%	59.6%			62.6%							

DAILY TOTALS					NB	SB						EB	WB						Total
					7,343	8,057						0	0						15,400
AM Peak Hour	07:15	07:45			07:45		PM Peak Hour	14:45	16:00			14:45							
AM Pk Volume	810	613			1410		PM Pk Volume	644	749			1349							
Pk Hr Factor	0.896	0.759			0.824		Pk Hr Factor	0.947	0.859			0.975							
7 - 9 Volume	1476	995	0	0	2471		4 - 6 Volume	806	1497	0	0	2303							
7 - 9 Peak Hour	07:15	07:45			07:45		4 - 6 Peak Hour	16:00	16:00			16:00							
7 - 9 Pk Volume	810	613	0	0	1410		4 - 6 Pk Volume	429	749	0	0	1178							
Pk Hr Factor	0.896	0.759	0.000	0.000	0.824		Pk Hr Factor	0.865	0.859	0.000	0.000	0.861							

VOLUME

Steele Canyon Rd 300' N/O Vista Cielo Dr

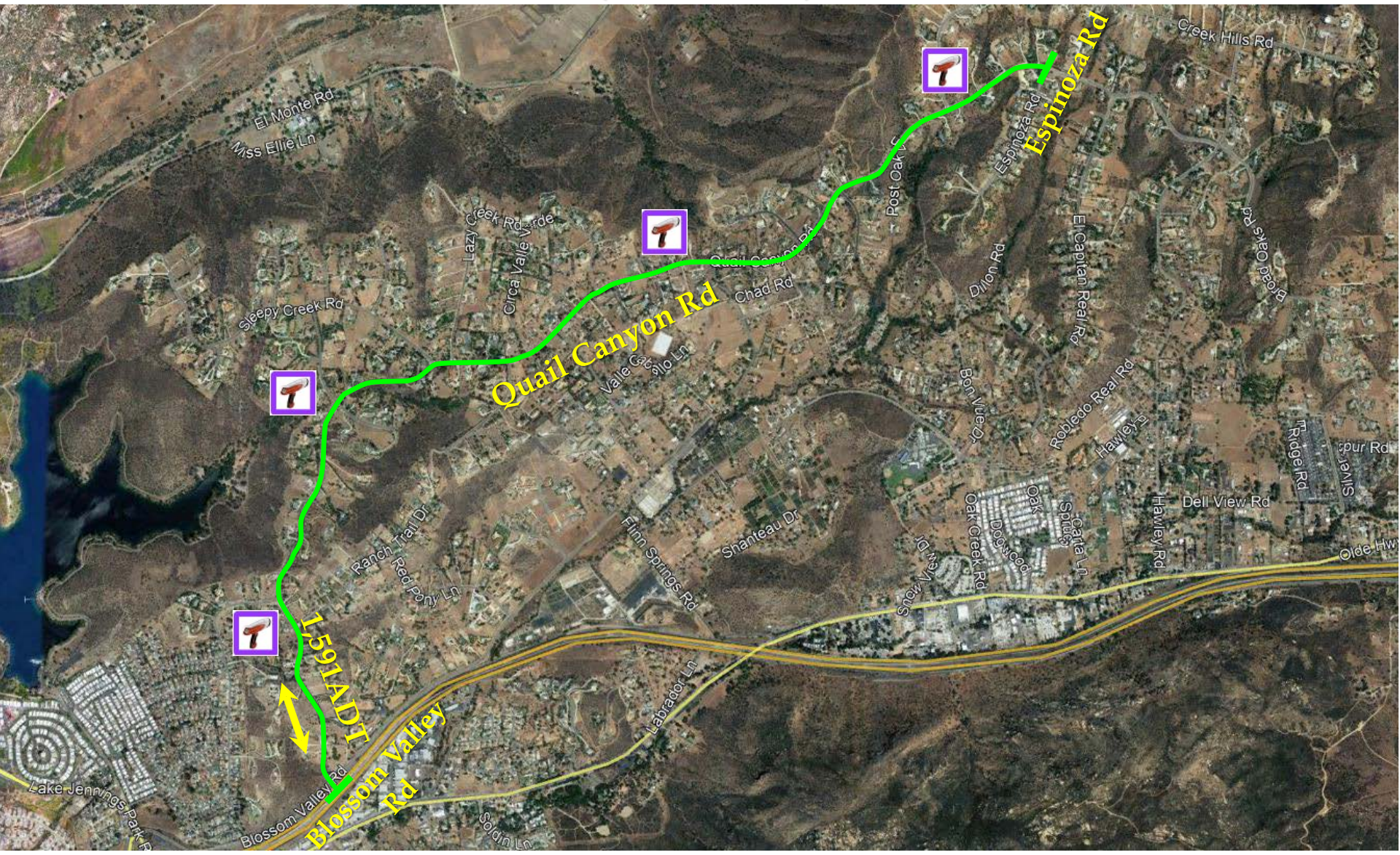
Day: Wednesday
Date: 5/22/2019City: Jamul
Project #: CA19_4218_023

DAILY TOTALS					NB	SB						EB	WB						Total
					3,138	3,674						0	0						6,812
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	8	8			16		12:00	36	46			82							
00:15	6	10			16		12:15	34	56			90							
00:30	7	6			13		12:30	34	60			94							
00:45	10	31	8	32	18	63	12:45	45	149	58	220	103	369						
01:00	5	1			6		13:00	77	46			123							
01:15	7	5			12		13:15	44	34			78							
01:30	4	2			6		13:30	59	49			108							
01:45	10	26	2	10	12	36	13:45	46	226	54	183	100	409						
02:00	4	1			5		14:00	47	72			119							
02:15	8	4			12		14:15	46	86			132							
02:30	8	2			10		14:30	51	74			125							
02:45	5	25	3	10	8	35	14:45	88	232	84	316	172	548						
03:00	3	0			3		15:00	98	67			165							
03:15	2	2			4		15:15	98	98			196							
03:30	12	1			13		15:30	75	79			154							
03:45	6	23	0	3	6	26	15:45	47	318	82	326	129	644						
04:00	4	6			10		16:00	54	105			159							
04:15	5	2			7		16:15	60	76			136							
04:30	9	2			11		16:30	43	87			130							
04:45	8	26	5	15	13	41	16:45	35	192	108	376	143	568						
05:00	7	4			11		17:00	41	75			116							
05:15	8	9			17		17:15	40	86			126							
05:30	18	14			32		17:30	39	84			123							
05:45	38	71	10	37	48	108	17:45	38	158	73	318	111	476						
06:00	55	16			71		18:00	36	73			109							
06:15	49	13			62		18:15	40	62			102							
06:30	44	22			66		18:30	23	51			74							
06:45	41	189	34	85	75	274	18:45	28	127	49	235	77	362						
07:00	47	46			93		19:00	36	43			79							
07:15	53	32			85		19:15	25	40			65							
07:30	81	28			109		19:30	36	43			79							
07:45	70	251	30	136	100	387	19:45	25	122	41	167	66	289						
08:00	46	73			119		20:00	32	38			70							
08:15	71	81			152		20:15	33	30			63							
08:30	68	132			200		20:30	16	28			44							
08:45	82	267	77	363	159	630	20:45	16	97	35	131	51	228						
09:00	46	46			92		21:00	29	21			50							
09:15	39	30			69		21:15	17	27			44							
09:30	25	46			71		21:30	18	22			40							
09:45	28	138	47	169	75	307	21:45	22	86	33	103	55	189						
10:00	26	45			71		22:00	19	24			43							
10:15	40	27			67		22:15	13	21			34							
10:30	29	29			58		22:30	15	20			35							
10:45	28	123	39	140	67	263	22:45	15	62	10	75	25	137						
11:00	36	27			63		23:00	15	14			29							
11:15	35	46			81		23:15	14	14			28							
11:30	33	48			81		23:30	16	17			33							
11:45	40	144	50	171	90	315	23:45	10	55	8	53	18	108						
TOTALS	1314	1171			2485		TOTALS	1824	2503			4327							
SPLIT %	52.9%	47.1%			36.5%		SPLIT %	42.2%	57.8%			63.5%							

DAILY TOTALS					NB	SB						EB	WB						Total
					3,138	3,674						0	0						6,812
AM Peak Hour	07:30	08:00			08:00		PM Peak Hour	14:45	16:00			14:45							
AM Pk Volume	268	363			630		PM Pk Volume	359	376			687							
Pk Hr Factor	0.827	0.688			0.788		Pk Hr Factor	0.916	0.870			0.876							
7 - 9 Volume	518	499	0	0	1017		4 - 6 Volume	350	694	0	0	1044							
7 - 9 Peak Hour	07:30	08:00			08:00		4 - 6 Peak Hour	16:00	16:00			16:00							
7 - 9 Pk Volume	268	363	0	0	630		4 - 6 Pk Volume	192	376	0	0	568							
Pk Hr Factor	0.827	0.688	0.000	0.000	0.788		Pk Hr Factor	0.800	0.870	0.000	0.000	0.893							

2-E. Radar Recertification

Quail Canyon Rd from Blossom Valley Rd to Espinoza Rd (3.38 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Quail Canyon Rd	CERTIFICATION DATE	02/26/2020
FROM	Blossom Valley Rd	TO	Espinoza Rd
SEGMENT LENGTH	3.38 miles	AREA	Blossom Valley

Prevailing Speeds: Posted Speed: **40 MPH**

Location	100' S/o Palomino Ridge Dr	150' S/o Blossom Springs Rd	500' W/o Furnace Creek Rd	300' E/o Creek Hills Rd	Speed Zone
Date of Survey	05/21/2019	05/14/2019	05/14/2019	05/14/2019	05/21/2019
85 th Percentile	41.4 MPH	44.6 MPH	43.9 MPH	45.2 MPH	43.8 MPH
10 MPH Pace	33-42	35-44	34-43	34-43	34-43
Percent in Pace	66%	76%	73%	77%	73%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	5
Statewide Average Collision Rate	1.8
Collisions per Million Vehicle Miles	0.85
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	2

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	1,591 vpd	Date Counted	05/21/2019
Number of Lanes	2	Road Striping	Center
Mobility Element		Caltrans Urban/Rural	
Road Classification	Collector	Classification	Suburban
Roadbed Width	26 - 38 ft	Travelled Lane Width	12 ft lane
Road Curvature	Curvilinear	Available Shoulders	2 - 8 ft
Intersecting Roads	Many	Intersecting Driveways	Many
Pedestrian Pathways	None	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **40 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



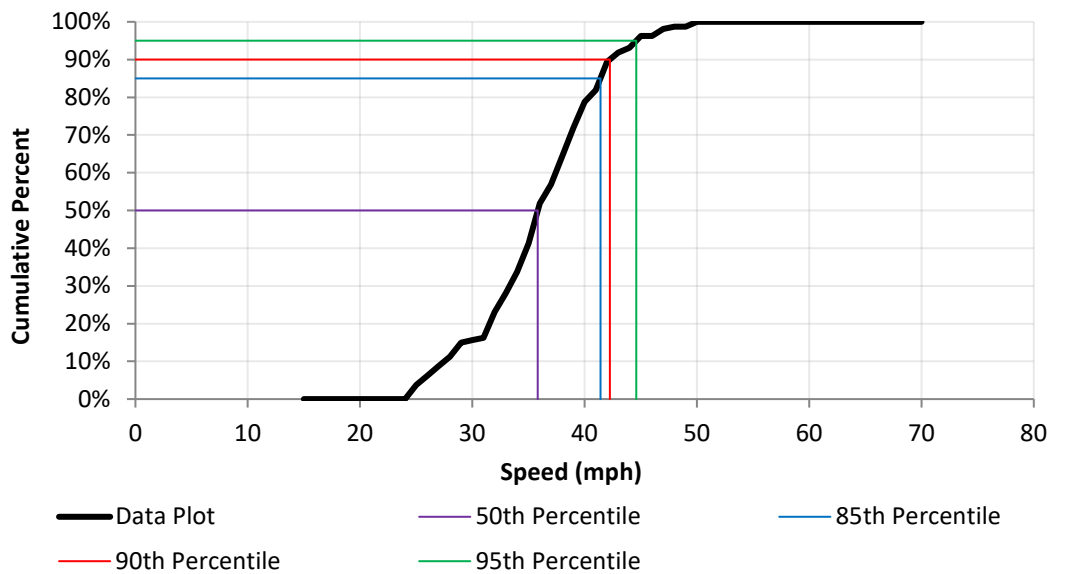
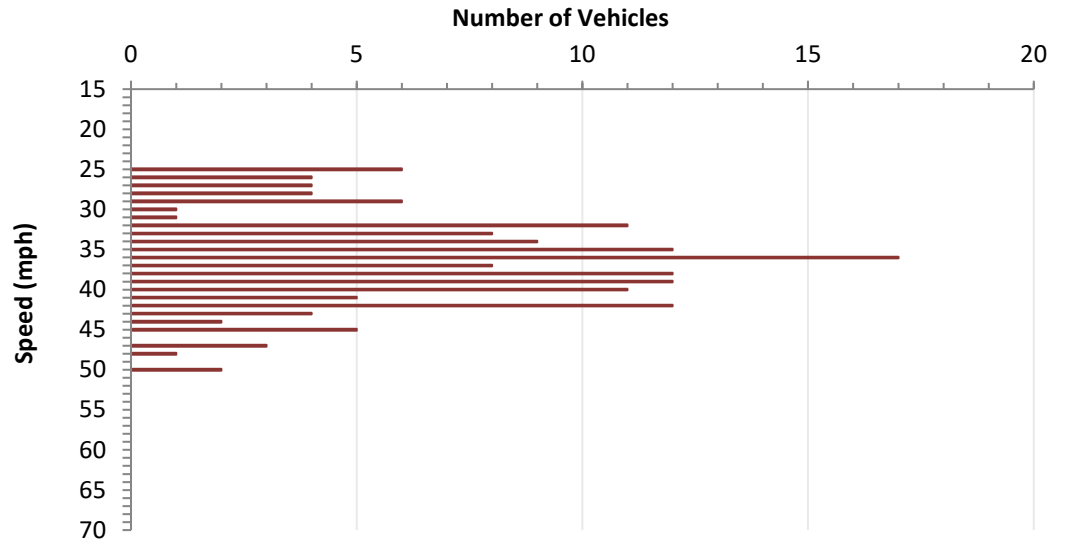
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Quail Canyon Rd	From:	Blossom Valley Rd	To:	Espinoza Rd
Position:	Quail Canyon Rd 100' S/O Palomino Ridge Dr			Direction:	NB/SB

Date:	5/21/2019	Weather:	Clear	Project Number:	19-4219-024
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25	6	3.8%
26	4	6.3%
27	4	8.8%
28	4	11.3%
29	6	15.0%
30	1	15.6%
31	1	16.3%
32	11	23.1%
33	8	28.1%
34	9	33.8%
35	12	41.3%
36	17	51.9%
37	8	56.9%
38	12	64.4%
39	12	71.9%
40	11	78.8%
41	5	81.9%
42	12	89.4%
43	4	91.9%
44	2	93.1%
45	5	96.3%
46		
47	3	98.1%
48	1	98.8%
49		
50	2	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	160	



DATA ANALYSIS

Average Speed	36.3	Range	25 - 50
50th Percentile	35.8	10 mph Pace	33 - 42
85th Percentile	41.4	Number in Pace	106
90th Percentile	42.3	Percent in Pace	66%
95th Percentile	44.6		



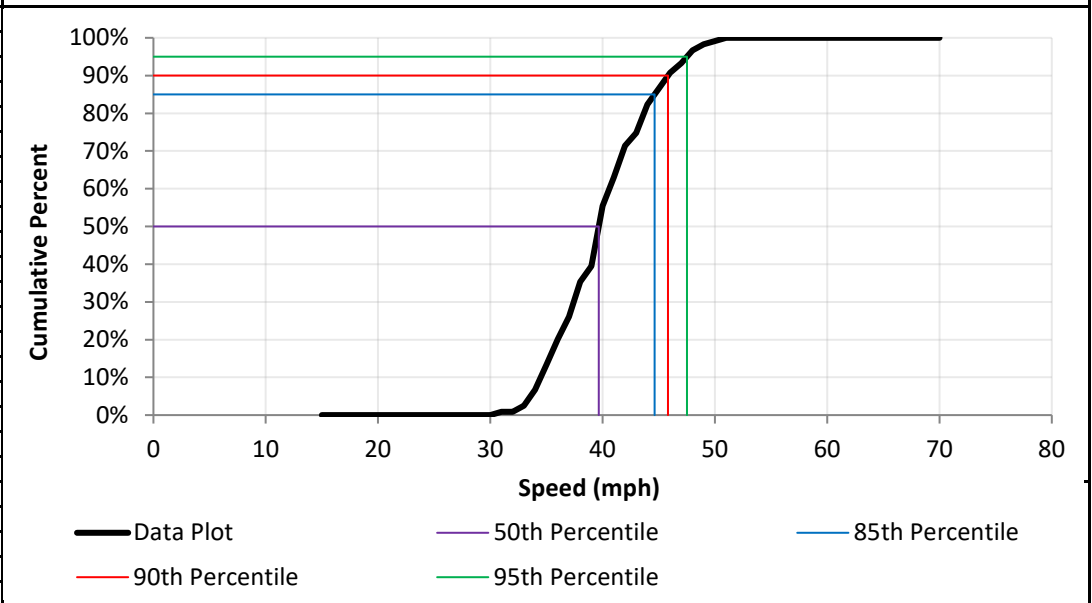
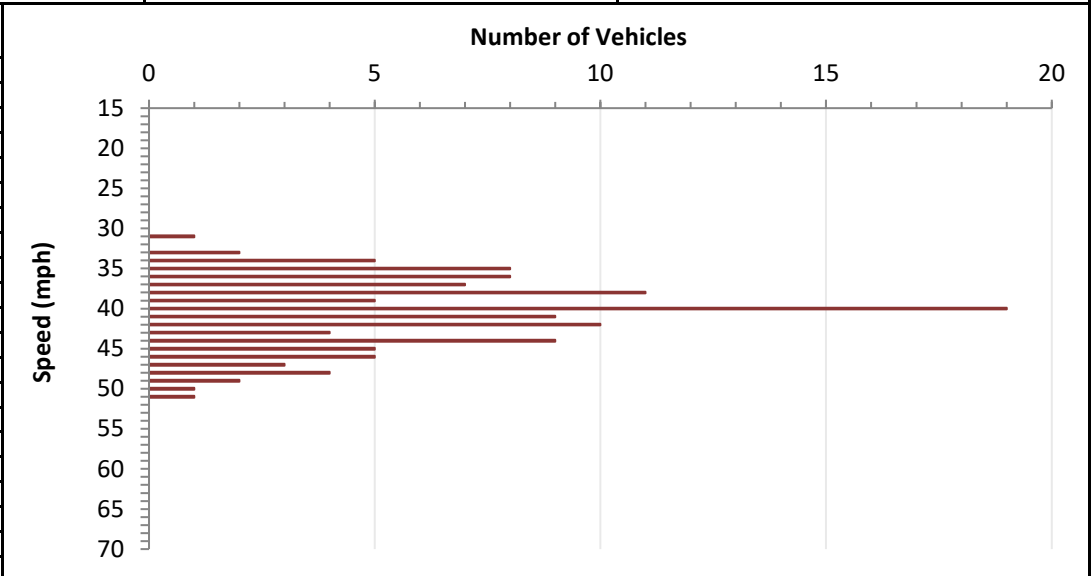
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Quail Canyon Rd	From:	Blossom Valley Rd	To:	Espinoza Rd
Position:	Quail Canyon Rd 150' S/O Blossom Springs Rd			Direction:	NB/SB

Date:	5/14/2019	Weather:	Clear	Project Number:	19-4219-025
Time Start:	1:00 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:00 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31	1	0.8%
32		
33	2	2.5%
34	5	6.7%
35	8	13.4%
36	8	20.2%
37	7	26.1%
38	11	35.3%
39	5	39.5%
40	19	55.5%
41	9	63.0%
42	10	71.4%
43	4	74.8%
44	9	82.4%
45	5	86.6%
46	5	90.8%
47	3	93.3%
48	4	96.6%
49	2	98.3%
50	1	99.2%
51	1	100.0%
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	119	



DATA ANALYSIS			
Average Speed	40.4	Range	31 - 51
50th Percentile	39.7	10 mph Pace	35 - 44
85th Percentile	44.6	Number in Pace	90
90th Percentile	45.8	Percent in Pace	76%
95th Percentile	47.5		

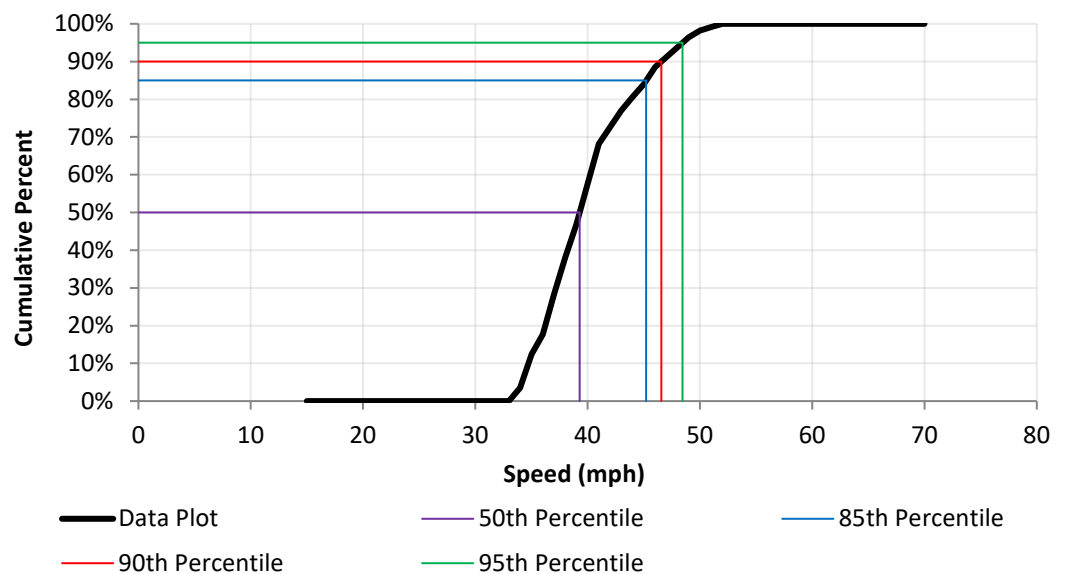
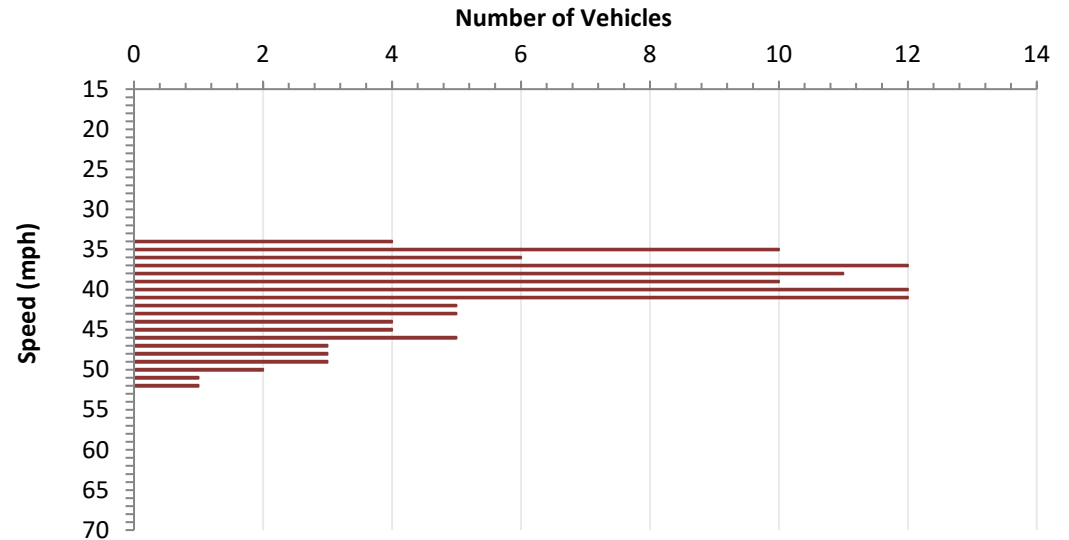


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Quail Canyon Rd	From:	Blossom Valley Rd	To:	Espinoza Rd
Position:	Quail Canyon Rd 300' E/O Creek Hills Rd			Direction:	EB/WB
Date:	5/14/2019	Weather:	Clear	Project Number:	19-4219-026
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34	4	3.5%
35	10	12.4%
36	6	17.7%
37	12	28.3%
38	11	38.1%
39	10	46.9%
40	12	57.5%
41	12	68.1%
42	5	72.6%
43	5	77.0%
44	4	80.5%
45	4	84.1%
46	5	88.5%
47	3	91.2%
48	3	93.8%
49	3	96.5%
50	2	98.2%
51	1	99.1%
52	1	100.0%
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	113	



DATA ANALYSIS

Average Speed	40.5	Range	34 - 52
50th Percentile	39.3	10 mph Pace	34 - 43
85th Percentile	45.2	Number in Pace	87
90th Percentile	46.6	Percent in Pace	77%
95th Percentile	48.5		



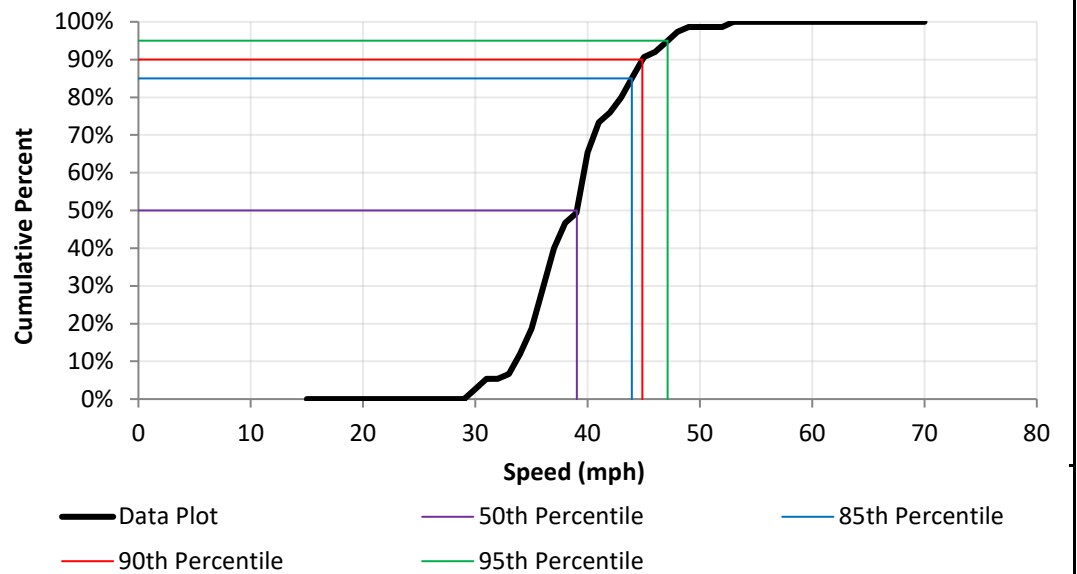
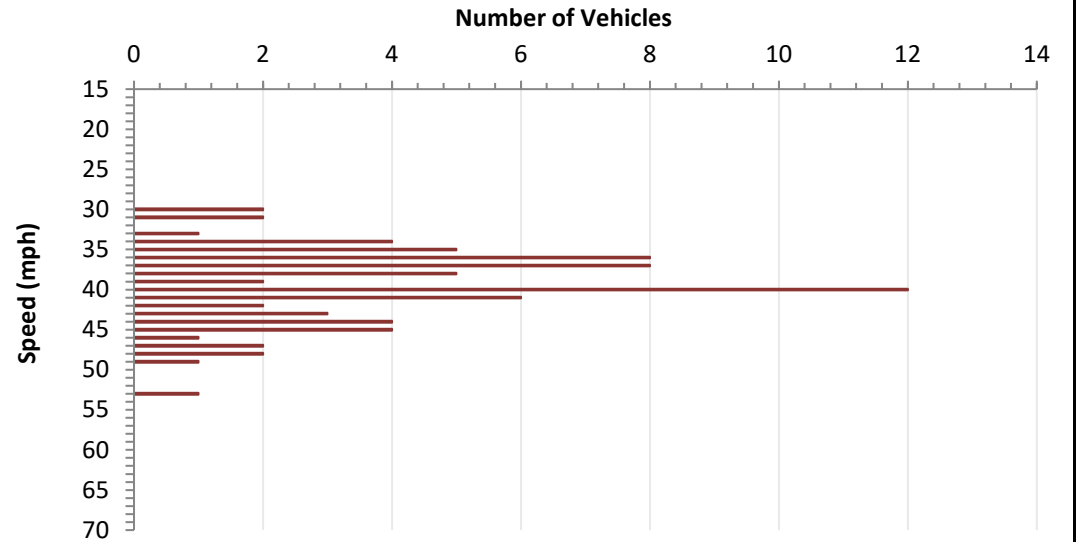
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Quail Canyon Rd	From:	Blossom Valley Rd	To:	Espinoza Rd
Position:	Quail Canyon Rd 500' W/O Furnace Creek Rd			Direction:	EB/WB

Date:	5/14/2019	Weather:	Clear	Project Number:	19-4219-027
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	2	2.7%
31	2	5.3%
32		
33	1	6.7%
34	4	12.0%
35	5	18.7%
36	8	29.3%
37	8	40.0%
38	5	46.7%
39	2	49.3%
40	12	65.3%
41	6	73.3%
42	2	76.0%
43	3	80.0%
44	4	85.3%
45	4	90.7%
46	1	92.0%
47	2	94.7%
48	2	97.3%
49	1	98.7%
50		
51		
52		
53	1	100.0%
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	75	



DATA ANALYSIS

Average Speed	39.3	Range	30 - 53
50th Percentile	39.0	10 mph Pace	34 - 43
85th Percentile	43.9	Number in Pace	55
90th Percentile	44.9	Percent in Pace	73%
95th Percentile	47.1		

VOLUME

Quail Canyon Rd 250' N/O Blossom Valley Rd

Day: Tuesday
Date: 5/21/2019City: Blossom Valley
Project #: CA19_4218_014

DAILY TOTALS					NB	SB						EB	WB	Total
					886	705						0	0	1,591
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL			
00:00	2	1			3	12:00	9	9			18			
00:15	5	9			14	12:15	18	10			28			
00:30	1	2			3	12:30	17	13			30			
00:45	0	8	0	12	20	12:45	18	62	14	46	108			
01:00	0	2			2	13:00	15	14			29			
01:15	0	1			1	13:15	17	6			23			
01:30	0	1			1	13:30	27	9			36			
01:45	1	1	0	4	5	13:45	29	88	10	39	127			
02:00	1	7			8	14:00	14	11			25			
02:15	1	0			1	14:15	12	14			26			
02:30	0	0			0	14:30	11	7			18			
02:45	1	3	0	7	10	14:45	20	57	12	44	101			
03:00	2	0			2	15:00	27	9			36			
03:15	1	0			1	15:15	20	6			26			
03:30	0	1			1	15:30	18	9			27			
03:45	0	3	1	2	5	15:45	17	82	13	37	119			
04:00	0	0			0	16:00	22	9			31			
04:15	1	0			1	16:15	17	12			29			
04:30	3	2			5	16:30	15	7			22			
04:45	1	5	4	6	11	16:45	20	74	11	39	113			
05:00	2	4			6	17:00	26	7			33			
05:15	1	4			5	17:15	13	12			25			
05:30	1	7			8	17:30	20	15			35			
05:45	0	4	3	18	22	17:45	22	81	10	44	125			
06:00	4	9			13	18:00	12	9			21			
06:15	4	13			17	18:15	20	5			25			
06:30	3	15			18	18:30	13	5			18			
06:45	6	17	23	60	77	18:45	14	59	3	22	81			
07:00	8	17			25	19:00	22	7			29			
07:15	3	16			19	19:15	21	3			24			
07:30	13	16			29	19:30	14	5			19			
07:45	9	33	18	67	100	19:45	12	69	4	19	88			
08:00	11	17			28	20:00	8	3			11			
08:15	12	15			27	20:15	11	2			13			
08:30	10	15			25	20:30	5	2			7			
08:45	9	42	17	64	106	20:45	11	35	2	9	44			
09:00	10	7			17	21:00	6	3			9			
09:15	14	23			37	21:15	6	2			8			
09:30	13	16			29	21:30	5	2			7			
09:45	15	52	10	56	108	21:45	5	22	1	8	30			
10:00	8	10			18	22:00	4	0			4			
10:15	10	12			22	22:15	3	2			5			
10:30	8	12			20	22:30	2	1			3			
10:45	8	34	16	50	84	22:45	2	11	1	4	15			
11:00	9	10			19	23:00	2	1			3			
11:15	11	14			25	23:15	0	0			0			
11:30	8	9			17	23:30	2	1			3			
11:45	10	38	13	46	84	23:45	2	6	0	2	8			
TOTALS	240	392			632	TOTALS	646	313			959			
SPLIT %	38.0%	62.0%			39.7%	SPLIT %	67.4%	32.6%			60.3%			

DAILY TOTALS					NB	SB						EB	WB	Total
					886	705						0	0	1,591
AM Peak Hour	11:45	06:45		07:30			PM Peak Hour	13:00	12:15		13:00			
AM Pk Volume	54	72		111			PM Pk Volume	88	51		127			
Pk Hr Factor	0.750	0.783		0.957			Pk Hr Factor	0.759	0.911		0.814			
7 - 9 Volume	75	131	0	206			4 - 6 Volume	155	83	0	238			
7 - 9 Peak Hour	07:30	07:00		07:30			4 - 6 Peak Hour	17:00	16:45		17:00			
7 - 9 Pk Volume	45	67	0	111			4 - 6 Pk Volume	81	45	0	125			
Pk Hr Factor	0.865	0.931	0.000	0.957			Pk Hr Factor	0.779	0.750	0.000	0.893			

2-F. Radar Recertification

**Woodside Av from Santee City Limit (near Woodside Ter) to Riverview Av
(0.65 miles)**



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Woodside Avenue	CERTIFICATION DATE	02/26/2020
FROM	Santee C/L (near Woodside Ter)	TO	Riverview Avenue
SEGMENT LENGTH	0.65 miles	AREA	Lakeside

Prevailing Speed: Posted Speed: **40 MPH**

Location	500' E/o Marilla Dr
Date of Survey	11/27/2018
85 th Percentile	44.7 MPH
10 MPH Pace	36-45
Percent in Pace	80%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	23
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	0.57
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	12

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	13,057 vpd	Date Counted	12/11/2018
Number of Lanes	2	Road Striping	Center and Bike Lanes
Mobility Element	Boulevard	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	32 ft	Travelled Lane Width	24 ft
Road Curvature	Curvilinear	Available Shoulders	4 ft
Intersecting Roads	Minimal	Intersecting Driveways	Some
Pedestrian Pathways	None	Bike Lane/Route	Yes

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **40 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



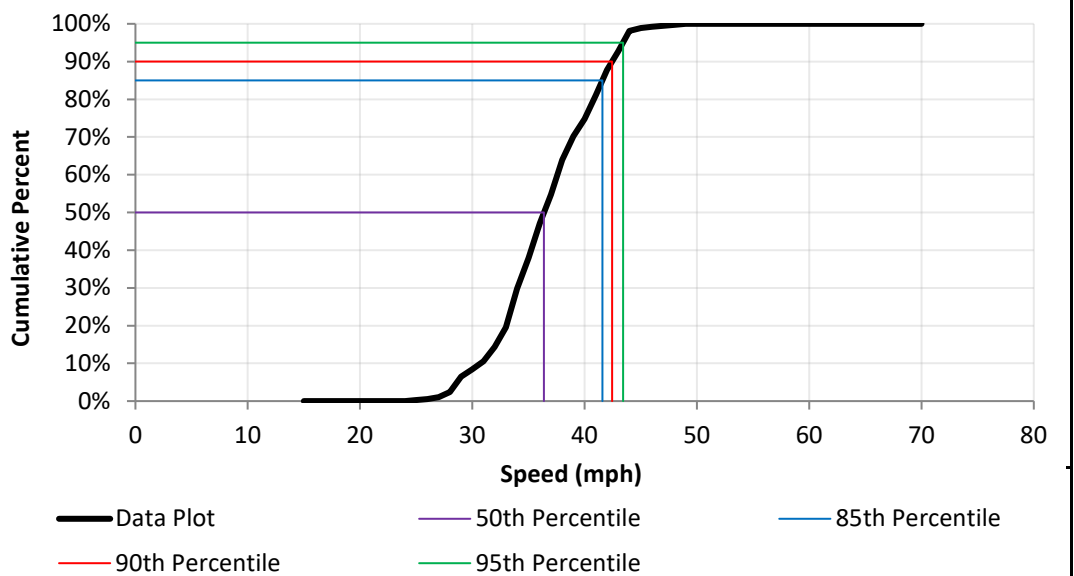
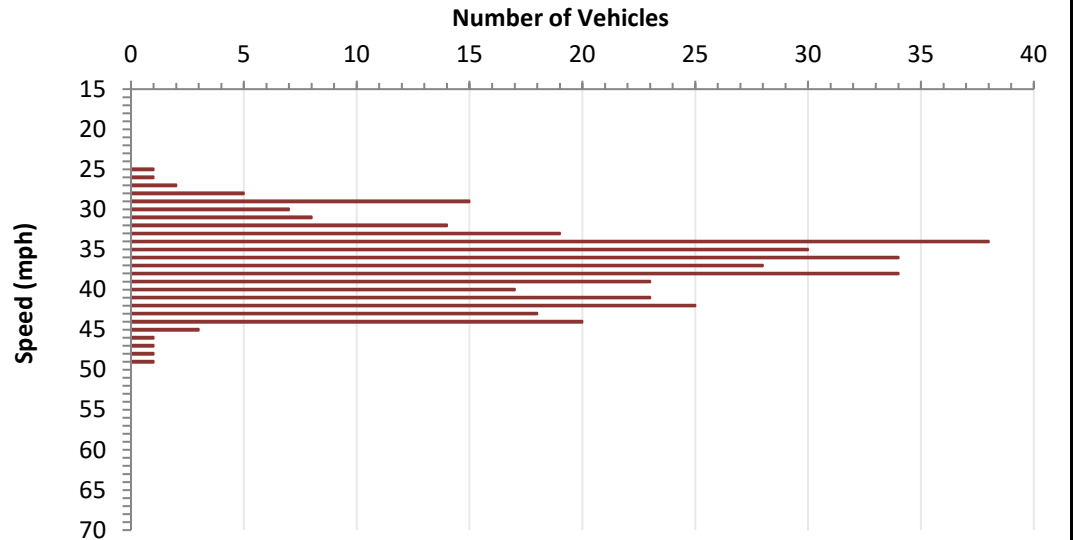
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Woodside Av	From:	Maine Av	To:	Riverview Av
Position:	400' W/o Prospect Av	Direction:	EB/WB		

Date:	5/9/2019	Weather:	Clear	Project Number:	19-4219-037
Time Start:	1:15 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:15 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25	1	0.3%
26	1	0.5%
27	2	1.1%
28	5	2.4%
29	15	6.5%
30	7	8.4%
31	8	10.6%
32	14	14.4%
33	19	19.5%
34	38	29.8%
35	30	37.9%
36	34	47.2%
37	28	54.7%
38	34	64.0%
39	23	70.2%
40	17	74.8%
41	23	81.0%
42	25	87.8%
43	18	92.7%
44	20	98.1%
45	3	98.9%
46	1	99.2%
47	1	99.5%
48	1	99.7%
49	1	100.0%
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	369	



DATA ANALYSIS

Average Speed	37.0	Range	25 - 49
50th Percentile	36.4	10 mph Pace	33 - 42
85th Percentile	41.6	Number in Pace	271
90th Percentile	42.5	Percent in Pace	73%
95th Percentile	43.4		

VOLUME

Woodside Ave 500' E/O SR-67 On-Ramp

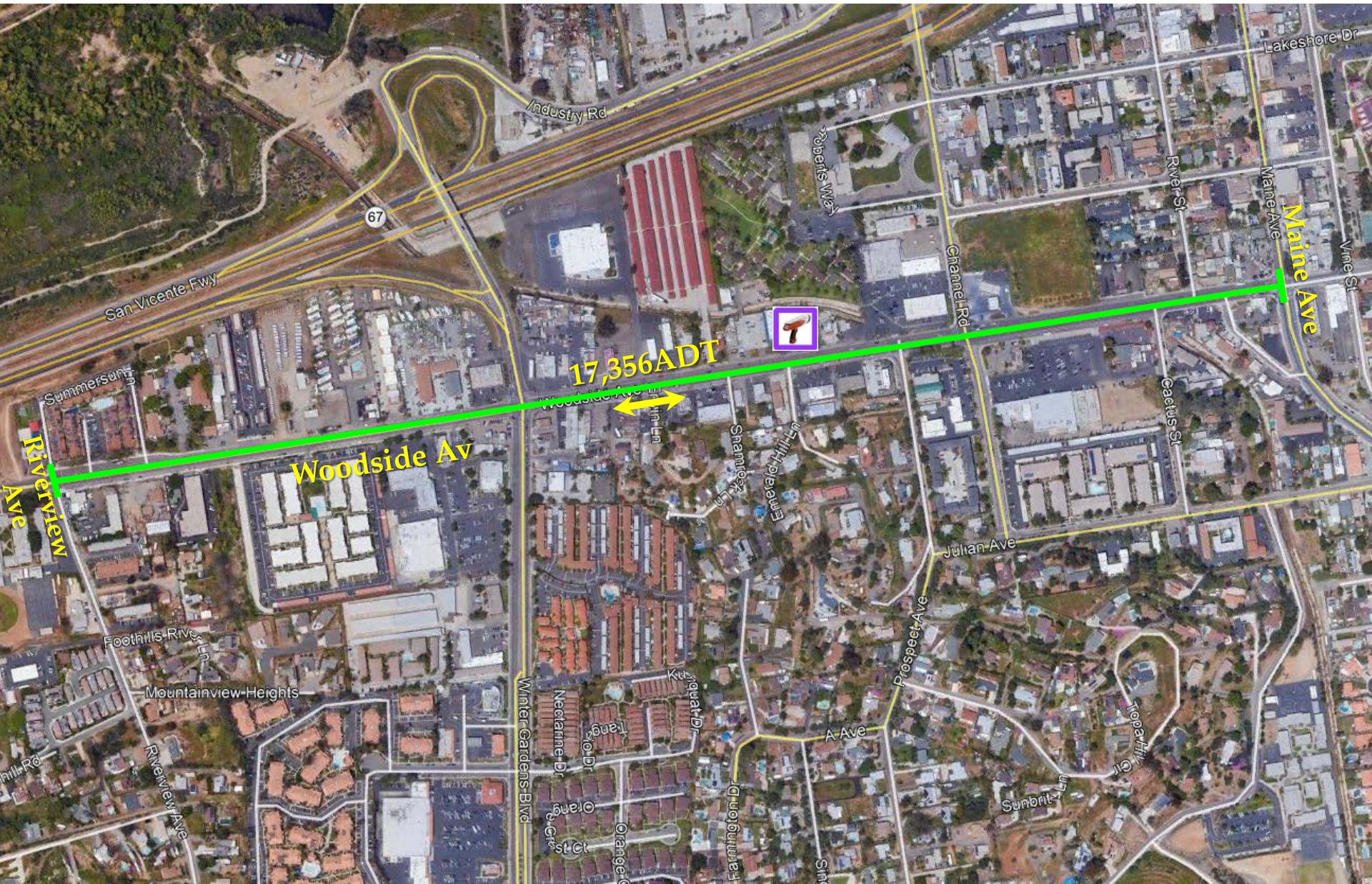
Day: Tuesday
Date: 12/11/2018City: Lakeside
Project #: CA18_4458_003

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0	7,630					5,427	13,057
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			14	5	19		12:00			111	64	175	
00:15			10	4	14		12:15			104	61	165	
00:30			7	2	9		12:30			108	81	189	
00:45			11	42	2	13	12:45			125	448	84	290
					13	55						209	738
01:00			5	4	9		13:00			110	72	182	
01:15			11	2	13		13:15			106	68	174	
01:30			4	2	6		13:30			118	80	198	
01:45			11	31	5	13	13:45			120	454	78	298
					16	44						198	752
02:00			3	2	5		14:00			130	74	204	
02:15			2	4	6		14:15			125	74	199	
02:30			6	3	9		14:30			162	58	220	
02:45			2	13	4	13	14:45			187	604	84	290
					6	26						271	894
03:00			4	0	4		15:00			201	98	299	
03:15			2	3	5		15:15			198	139	337	
03:30			2	3	5		15:30			186	92	278	
03:45			4	12	8	14	15:45			170	755	75	404
					12	26						245	1159
04:00			3	5	8		16:00			225	85	310	
04:15			3	15	18		16:15			210	96	306	
04:30			2	24	26		16:30			225	75	300	
04:45			6	14	29	73	16:45			212	872	103	359
					35	87						315	1231
05:00			10	38	48		17:00			230	77	307	
05:15			17	50	67		17:15			208	82	290	
05:30			14	70	84		17:30			189	64	253	
05:45			13	54	76	234	17:45			148	775	87	310
					89	288						235	1085
06:00			30	84	114		18:00			146	64	210	
06:15			29	96	125		18:15			148	58	206	
06:30			36	92	128		18:30			123	67	190	
06:45			42	137	128	400	18:45			120	537	56	245
					170	537						176	782
07:00			50	102	152		19:00			113	33	146	
07:15			71	134	205		19:15			88	62	150	
07:30			89	126	215		19:30			111	49	160	
07:45			107	317	129	491	19:45			93	405	41	185
					236	808						134	590
08:00			149	141	290		20:00			77	34	111	
08:15			129	163	292		20:15			94	33	127	
08:30			91	157	248		20:30			73	25	98	
08:45			74	443	119	580	20:45			70	314	24	116
					193	1023						94	430
09:00			73	89	162		21:00			52	31	83	
09:15			65	72	137		21:15			48	19	67	
09:30			68	81	149		21:30			43	27	70	
09:45			71	277	75	317	21:45			54	197	18	95
					146	594						72	292
10:00			61	67	128		22:00			45	20	65	
10:15			70	59	129		22:15			40	20	60	
10:30			84	69	153		22:30			22	7	29	
10:45			81	296	88	283	22:45			23	130	6	53
					169	579						29	183
11:00			105	90	195		23:00			17	12	29	
11:15			97	62	159		23:15			23	8	31	
11:30			107	68	175		23:30			21	16	37	
11:45			113	422	85	305	23:45			20	81	10	46
					198	727						30	127
TOTALS			2058	2736	4794		TOTALS			5572	2691	8263	
SPLIT %			42.9%	57.1%	36.7%		SPLIT %			67.4%	32.6%	63.3%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						7,630	5,427						13,057
AM Peak Hour			07:45	07:45	07:45		PM Peak Hour			16:15	14:45	16:00							
AM Pk Volume			476	590	1066		PM Pk Volume			877	413	1231							
Pk Hr Factor			0.799	0.905	0.913		Pk Hr Factor			0.953	0.743	0.977							
7 - 9 Volume	0	0	760	1071	1831		4 - 6 Volume	0	0	1647	669	2316							
7 - 9 Peak Hour			07:45	07:45	07:45		4 - 6 Peak Hour			16:15	16:00	16:00							
7 - 9 Pk Volume	0	0	476	590	1066		4 - 6 Pk Volume	0	0	877	359	1231							
Pk Hr Factor	0.000	0.000	0.799	0.905	0.913		Pk Hr Factor	0.000	0.000	0.953	0.871	0.977							

2-G. Radar Recertification

Woodside Ave from Riverview Ave to Maine Ave (0.93 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Woodside Avenue	CERTIFICATION DATE	02/26/2020
FROM	Riverview Avenue	TO	Maine Avenue
SEGMENT LENGTH	0.93 miles	AREA	Lakeside

Prevailing Speeds: Posted Speed: **35 MPH**

Location	400' W/o Prospect Av
Date of Survey	05/09/2019
85 th Percentile	41.6 MPH
10 MPH Pace	33-42
Percent in Pace	73%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	102
Statewide Average Collision Rate	0.13
Collisions per Million Vehicle Miles	5.79
Number of Collisions with Fatalities	1
Number of Collisions with Injuries	43

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	17,356 vpd	Date Counted	05/21/2019
Number of Lanes	5	Road Striping	Center, Edge Lines, Bike Lanes
Mobility Element	Boulevard	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	38 to 55 ft
Roadbed Width	57 to 86 ft	Available Shoulders	4.5 to 9.5 ft
Road Curvature	Linear	Intersecting Driveways	Some
Intersecting Roads	Minimal	Bike Lane/Route	Yes
Pedestrian Pathways	Sidewalks		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



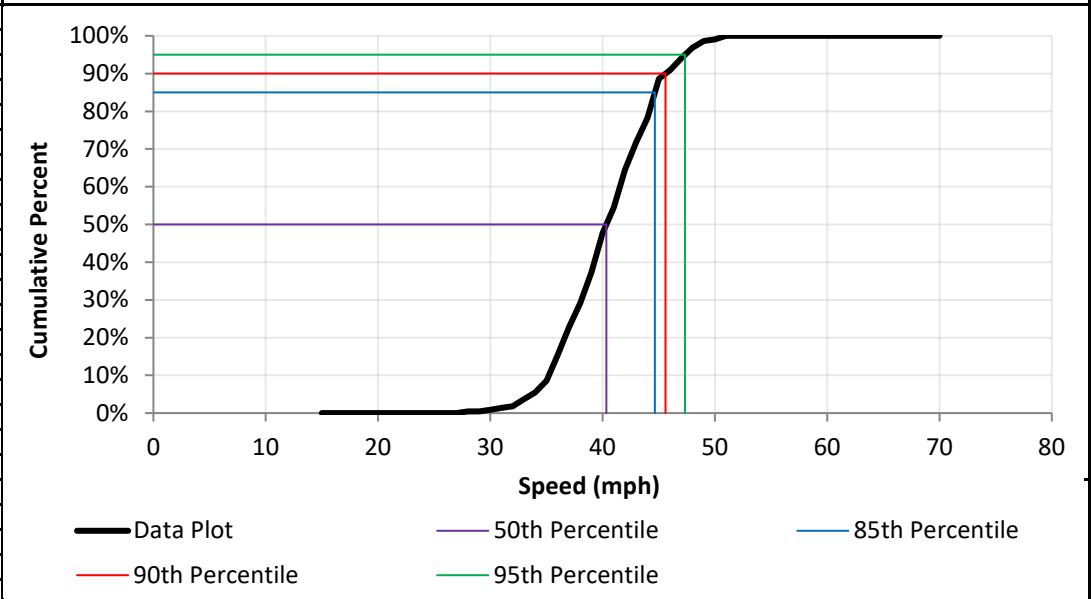
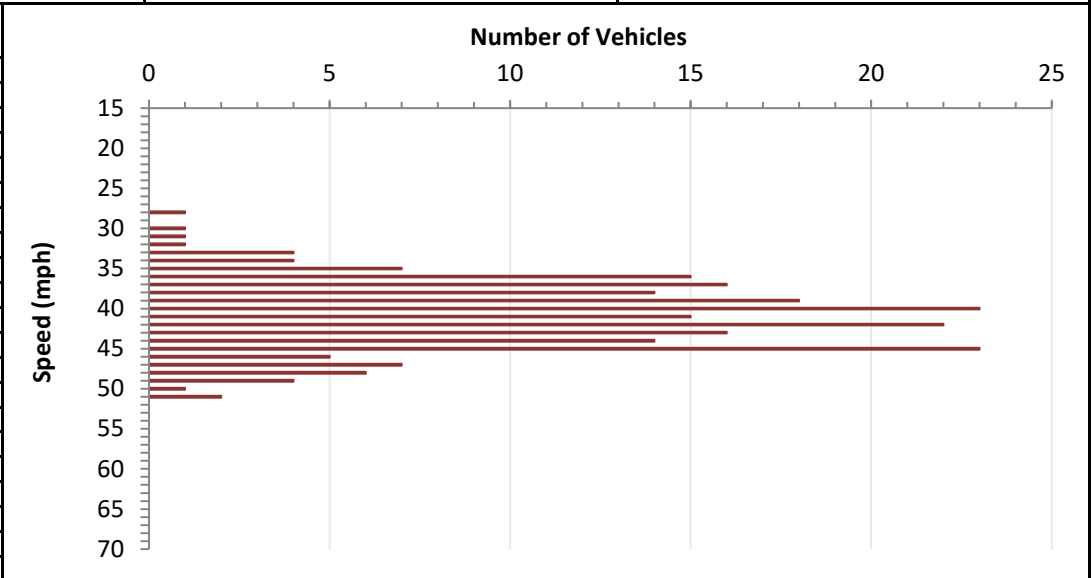
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Woodside Av	From:	Riverview Av	To:	Santee City Limits
Position:	500' E/o Marilla Dr	Direction:	EB/WB		

Date:	11/27/2018	Weather:	Clear	Project Number:	18-4457-006
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	1	0.5%
29		
30	1	0.9%
31	1	1.4%
32	1	1.8%
33	4	3.6%
34	4	5.5%
35	7	8.6%
36	15	15.5%
37	16	22.7%
38	14	29.1%
39	18	37.3%
40	23	47.7%
41	15	54.5%
42	22	64.5%
43	16	71.8%
44	14	78.2%
45	23	88.6%
46	5	90.9%
47	7	94.1%
48	6	96.8%
49	4	98.6%
50	1	99.1%
51	2	100.0%
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	220	



DATA ANALYSIS			
Average Speed	40.9	Range	28 - 51
50th Percentile	40.3	10 mph Pace	36 - 45
85th Percentile	44.7	Number in Pace	176
90th Percentile	45.6	Percent in Pace	80%
95th Percentile	47.3		

VOLUME

Woodside Ave 900' W/O Winter Gardens Blvd

Day: Tuesday
Date: 5/21/2019City: Lakeside
Project #: CA19_4218_024

DAILY TOTALS					NB	SB	EB					WB	Total				
					0	0						5,827					
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL					
00:00			6	5	11		12:00			93	81	174					
00:15			6	9	15		12:15			77	75	152					
00:30			7	9	16		12:30			92	65	157					
00:45			3	22	5	28	12:45			82	344	63	284				
					8	50						145	628				
01:00			3	7	10		13:00			78	56	134					
01:15			9	2	11		13:15			85	67	152					
01:30			3	5	8		13:30			91	65	156					
01:45			2	17	3	17	13:45			104	358	60	248				
					5	34						164	606				
02:00			0	4	4		14:00			100	72	172					
02:15			4	1	5		14:15			101	73	174					
02:30			5	4	9		14:30			103	101	204					
02:45			4	13	4	13	14:45			121	425	109	355				
					8	26						230	780				
03:00			2	4	6		15:00			158	99	257					
03:15			1	2	3		15:15			175	120	295					
03:30			1	2	3		15:30			152	93	245					
03:45			5	9	2	10	15:45			147	632	79	391				
					7	19						226	1023				
04:00			4	2	6		16:00			136	78	214					
04:15			3	3	6		16:15			151	82	233					
04:30			11	5	16		16:30			135	72	207					
04:45			4	22	9	19	16:45			148	570	77	309				
					13	41						225	879				
05:00			15	6	21		17:00			153	77	230					
05:15			12	11	23		17:15			172	80	252					
05:30			26	20	46		17:30			127	78	205					
05:45			25	78	22	59	17:45			107	559	67	302				
					47	137						174	861				
06:00			27	21	48		18:00			96	48	144					
06:15			30	33	63		18:15			88	61	149					
06:30			61	44	105		18:30			79	49	128					
06:45			43	161	62	160	18:45			79	342	42	200				
					105	321						121	542				
07:00			56	65	121		19:00			80	55	135					
07:15			75	61	136		19:15			70	38	108					
07:30			88	76	164		19:30			36	39	75					
07:45			62	281	108	310	19:45			56	242	40	172				
					170	591						96	414				
08:00			105	93	198		20:00			56	35	91					
08:15			122	139	261		20:15			50	31	81					
08:30			150	112	262		20:30			54	32	86					
08:45			59	436	75	419	20:45			40	200	33	131				
					134	855						73	331				
09:00			72	64	136		21:00			33	32	65					
09:15			66	53	119		21:15			28	35	63					
09:30			56	39	95		21:30			32	21	53					
09:45			65	259	45	201	21:45			25	118	23	111				
					110	460						48	229				
10:00			65	47	112		22:00			25	15	40					
10:15			57	62	119		22:15			14	25	39					
10:30			66	58	124		22:30			21	16	37					
10:45			65	253	58	225	22:45			13	73	14	70				
					123	478						27	143				
11:00			91	54	145		23:00			7	16	23					
11:15			77	72	149		23:15			18	11	29					
11:30			93	57	150		23:30			13	7	20					
11:45			102	363	69	252	23:45			12	50	6	40				
					171	615						18	90				
TOTALS			1914	1713	3627		TOTALS			3913	2613	6526					
SPLIT %			52.8%	47.2%	35.7%		SPLIT %			60.0%	40.0%	64.3%					

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						5,827	4,326						10,153
AM Peak Hour			07:45	07:45	07:45		PM Peak Hour			15:00	14:30	14:45							
AM Pk Volume			439	452	891		PM Pk Volume			632	429	1027							
Pk Hr Factor			0.732	0.813	0.850		Pk Hr Factor			0.903	0.894	0.870							
7 - 9 Volume	0	0	717	729	1446		4 - 6 Volume	0	0	1129	611	1740							
7 - 9 Peak Hour			07:45	07:45	07:45		4 - 6 Peak Hour			16:30	16:45	16:30							
7 - 9 Pk Volume	0	0	439	452	891		4 - 6 Pk Volume	0	0	608	312	914							
Pk Hr Factor	0.000	0.000	0.732	0.813	0.850		Pk Hr Factor	0.000	0.000	0.884	0.975	0.907							

VOLUME

Woodside Ave 350' E/O Winter Gardens Blvd

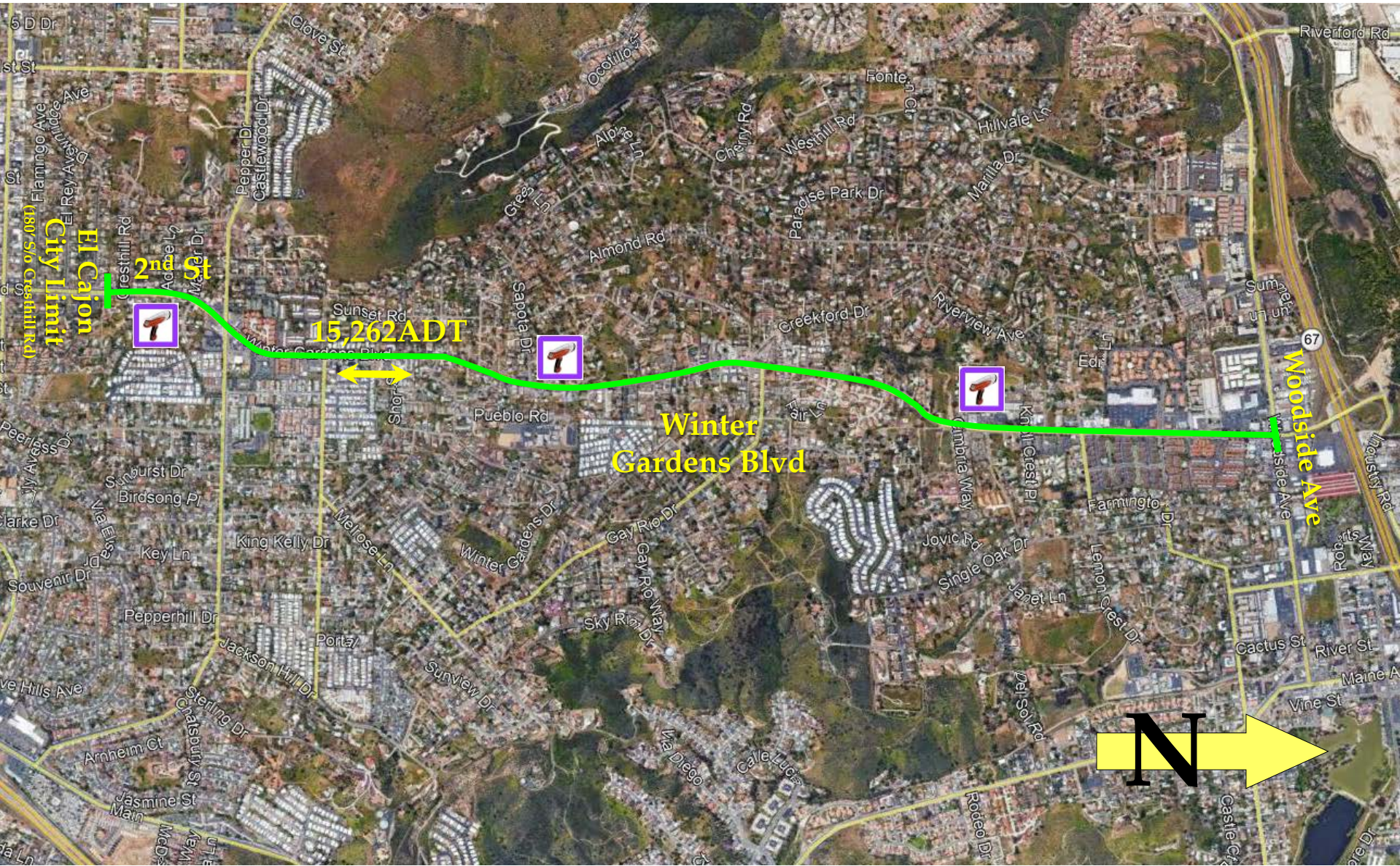
Day: Tuesday
Date: 5/21/2019City: Lakeside
Project #: CA19_4218_025

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						13,403	11,156	24,559
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL		
00:00			16	22	38		12:00			193	193	386		
00:15			12	19	31		12:15			195	167	362		
00:30			20	11	31		12:30			225	167	392		
00:45			15	63	10	62	12:45			208	821	168	695	1516
01:00			11	10	21		13:00			212	154	366		
01:15			17	8	25		13:15			230	166	396		
01:30			16	9	25		13:30			232	165	397		
01:45			7	51	5	32	13:45			241	915	179	664	1579
02:00			11	8	19		14:00			243	173	416		
02:15			13	10	23		14:15			271	198	469		
02:30			10	10	20		14:30			267	236	503		
02:45			7	41	10	38	14:45			281	1062	219	826	1888
03:00			9	11	20		15:00			302	176	478		
03:15			13	9	22		15:15			327	215	542		
03:30			9	13	22		15:30			314	207	521		
03:45			7	38	15	48	15:45			303	1246	208	806	2052
04:00			10	22	32		16:00			320	203	523		
04:15			9	21	30		16:15			299	190	489		
04:30			17	35	52		16:30			292	198	490		
04:45			24	60	46	124	16:45			308	1219	203	794	2013
05:00			31	66	97		17:00			313	190	503		
05:15			45	91	136		17:15			323	181	504		
05:30			53	102	155		17:30			303	167	470		
05:45			51	180	83	342	17:45			276	1215	169	707	1922
06:00			79	125	204		18:00			222	158	380		
06:15			90	138	228		18:15			242	153	395		
06:30			125	166	291		18:30			198	148	346		
06:45			167	461	182	611	18:45			225	887	123	582	1469
07:00			172	219	391		19:00			177	120	297		
07:15			194	215	409		19:15			166	108	274		
07:30			193	220	413		19:30			172	91	263		
07:45			160	719	251	905	19:45			138	653	100	419	1072
08:00			185	234	419		20:00			138	98	236		
08:15			158	225	383		20:15			130	86	216		
08:30			176	210	386		20:30			130	122	252		
08:45			151	670	165	834	20:45			106	504	77	383	887
09:00			128	149	277		21:00			120	71	191		
09:15			152	128	280		21:15			94	70	164		
09:30			135	149	284		21:30			87	56	143		
09:45			167	582	149	575	21:45			75	376	45	242	618
10:00			123	147	270		22:00			75	69	144		
10:15			140	145	285		22:15			60	42	102		
10:30			142	153	295		22:30			50	30	80		
10:45			169	574	153	598	22:45			36	221	27	168	389
11:00			171	148	319		23:00			34	24	58		
11:15			150	166	316		23:15			26	28	54		
11:30			199	140	339		23:30			30	18	48		
11:45			209	729	162	616	23:45			26	116	15	85	201
TOTALS			4168	4785	8953		TOTALS			9235	6371	15606		
SPLIT %			46.6%	53.4%	36.5%		SPLIT %			59.2%	40.8%	63.5%		

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						13,403	11,156	24,559
AM Peak Hour			11:45	07:30	07:15		PM Peak Hour			15:15	14:30	15:15		
AM Pk Volume			822	930	1652		PM Pk Volume			1264	846	2097		
Pk Hr Factor			0.913	0.926	0.986		Pk Hr Factor			0.966	0.896	0.967		
7 - 9 Volume	0	0	1389	1739	3128		4 - 6 Volume	0	0	2434	1501	3935		
7 - 9 Peak Hour			07:15	07:30	07:15		4 - 6 Peak Hour			16:45	16:00	16:00		
7 - 9 Pk Volume	0	0	732	930	1652		4 - 6 Pk Volume	0	0	1247	794	2013		
Pk Hr Factor	0.000	0.000	0.943	0.926	0.986		Pk Hr Factor	0.000	0.000	0.965	0.978	0.962		

2-H. Radar Recertification

**Second St/Winter Gardens St from El Cajon City Limit (180' S/o
Cresthill Rd) to Woodside Ave (2.79 miles)**



COUNTY OF SAN DIEGO
Engineering and Traffic Survey
Per California Vehicle Code 627

STREET Second St/ Winter Gardens Bl **CERTIFICATION DATE** 02/26/2020
FROM El Cajon City Limit (180' S/o Cresthill Rd) **TO** Woodside Av
SEGMENT LENGTH 2.79 miles **AREA** Lakeside

Prevailing Speeds: Posted Speed: **45 MPH**

Location	150' N/o Cresthill Rd	100' N/o Sapota Dr	210' N/o Rockcrest Rd	Speed Zone
Date of Survey	05/07/2019	05/07/2019	05/07/2019	05/07/2019
85 th Percentile	49.1 MPH	49.1 MPH	46.4 MPH	48.2 MPH
10 MPH Pace	41-50	42-51	40-49	41-50
Percent in Pace	81%	86%	85%	84%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	136
Statewide Average Collision Rate	0.13
Collisions per Million Vehicle Miles	2.92
Number of Collisions with Fatalities	2
Number of Collisions with Injuries	67

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	15,262 vpd	Date Counted	05/21/2019
Number of Lanes	5	Road Striping	Center Lines, Edge Lines, Bike Lanes
Mobility Element	Boulevard/Major Roads	Caltrans Urban/Rural Classification	Suburban
Road Classification	Roads	Travelled Lane Width	58 ft
Roadbed Width	70 - 80 ft	Available Shoulders	0-12 ft
Road Curvature	Curvilinear	Intersecting Driveways	Many
Intersecting Roads	Many	Bike Lane/Route	Yes
Pedestrian Pathways	Yes		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



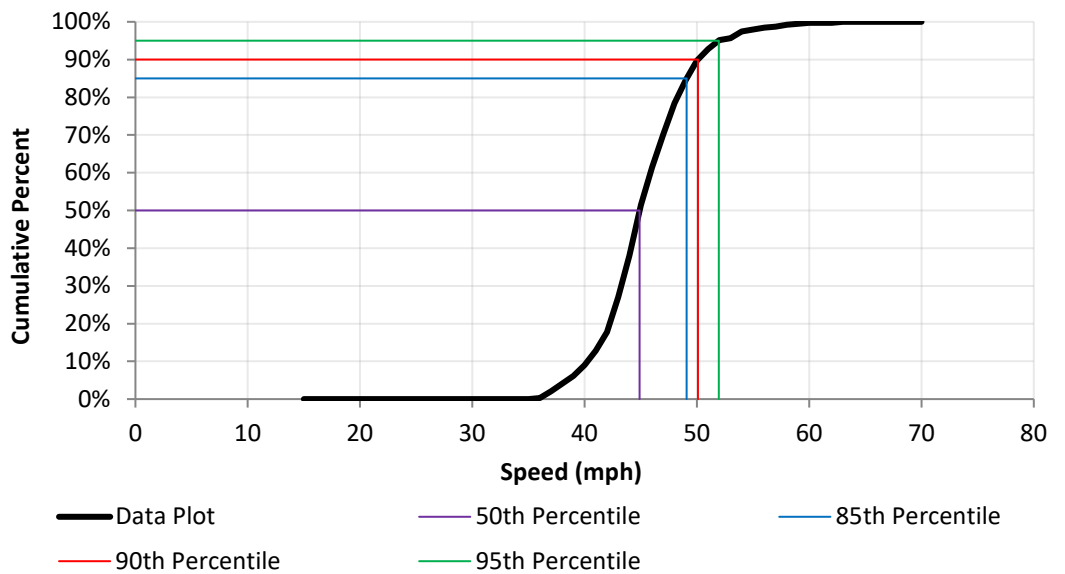
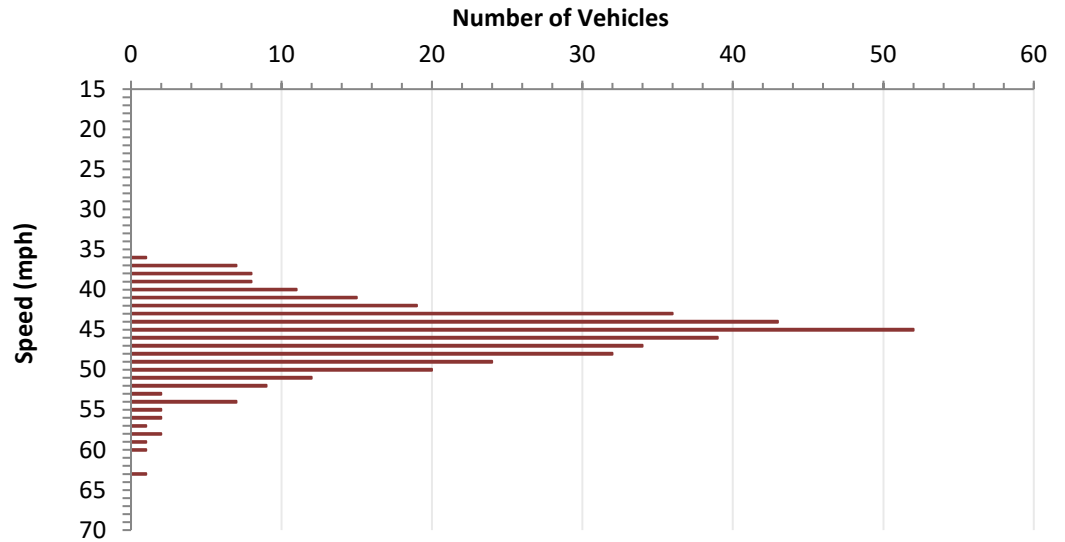
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Winter Gardens Bl/ Sd	From:	Woodside Av	To:	El Cajon City Limit
Position:	N 2nd St 150' N/O Cresthill Rd			Direction:	NB/SB

Date:	5/7/2019	Weather:	Clear	Project Number:	19-4219-002
Time Start:	9:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:15 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36	1	0.3%
37	7	2.1%
38	8	4.1%
39	8	6.2%
40	11	9.0%
41	15	12.9%
42	19	17.7%
43	36	27.0%
44	43	38.0%
45	52	51.4%
46	39	61.4%
47	34	70.2%
48	32	78.4%
49	24	84.6%
50	20	89.7%
51	12	92.8%
52	9	95.1%
53	2	95.6%
54	7	97.4%
55	2	97.9%
56	2	98.5%
57	1	98.7%
58	2	99.2%
59	1	99.5%
60	1	99.7%
61		
62		
63	1	100.0%
64		
65		
66		
67		
68		
69		
70		
Total	389	



DATA ANALYSIS

Average Speed	45.7	Range	36 - 63
50th Percentile	44.9	10 mph Pace	41 - 50
85th Percentile	49.1	Number in Pace	314
90th Percentile	50.1	Percent in Pace	81%
95th Percentile	52.0		



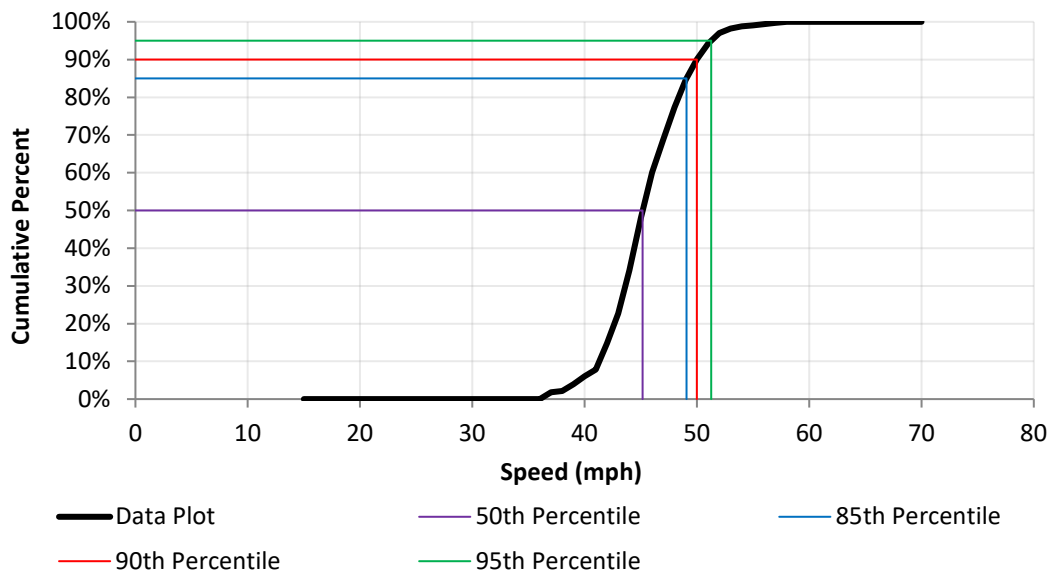
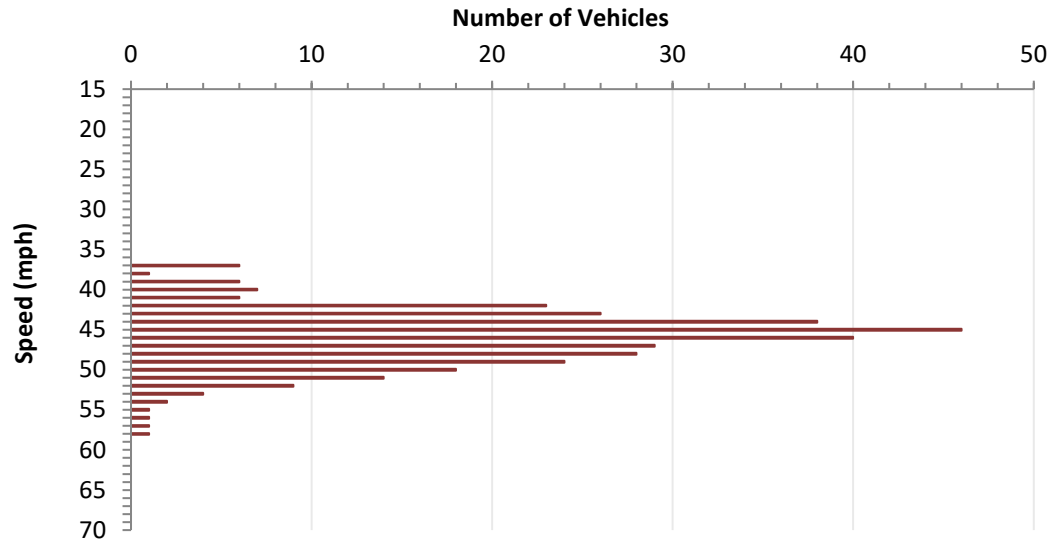
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Winter Gardens Bl/ S	From:	Woodside Av	To:	El Cajon City Limit
Position:	Winter Gardens Bl 100' N/O Sapota Dr	Direction:	NB/SB		

Date:	5/7/2019	Weather:	Clear	Project Number:	19-4219-002
Time Start:	1:15 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:15 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37	6	1.8%
38	1	2.1%
39	6	3.9%
40	7	6.0%
41	6	7.9%
42	23	14.8%
43	26	22.7%
44	38	34.1%
45	46	48.0%
46	40	60.1%
47	29	68.9%
48	28	77.3%
49	24	84.6%
50	18	90.0%
51	14	94.3%
52	9	97.0%
53	4	98.2%
54	2	98.8%
55	1	99.1%
56	1	99.4%
57	1	99.7%
58	1	100.0%
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	331	



DATA ANALYSIS

Average Speed	45.9	Range	37 - 58
50th Percentile	45.2	10 mph Pace	42 - 51
85th Percentile	49.1	Number in Pace	286
90th Percentile	50.0	Percent in Pace	86%
95th Percentile	51.3		



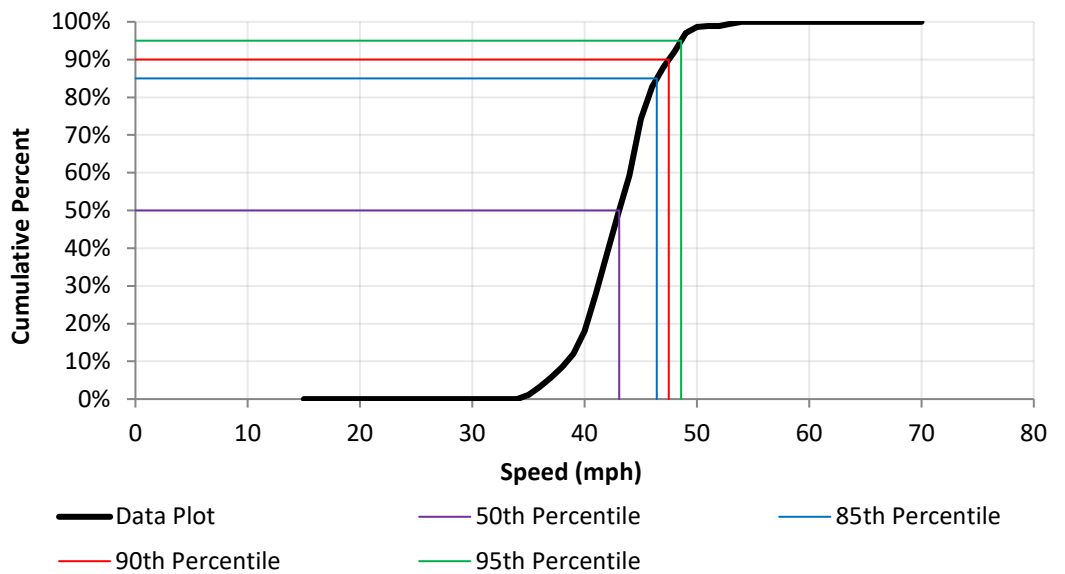
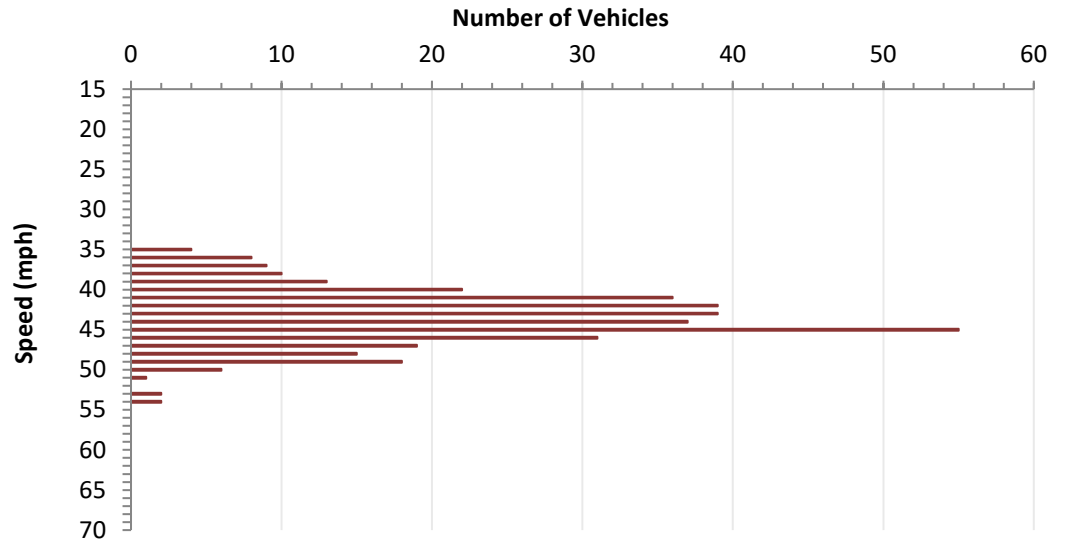
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Winter Gardens Bl/ Sd	From:	Woodside Av	To:	El Cajon City Limit
Position:	Winter Gardens Bl 210' N/O Rockcrest Rd	Direction:	NB/SB		

Date:	5/7/2019	Weather:	Clear	Project Number:	19-4219-004
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	4	1.1%
36	8	3.3%
37	9	5.7%
38	10	8.5%
39	13	12.0%
40	22	18.0%
41	36	27.9%
42	39	38.5%
43	39	49.2%
44	37	59.3%
45	55	74.3%
46	31	82.8%
47	19	88.0%
48	15	92.1%
49	18	97.0%
50	6	98.6%
51	1	98.9%
52		
53	2	99.5%
54	2	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	366	



DATA ANALYSIS

Average Speed	43.5	Range	35 - 54
50th Percentile	43.1	10 mph Pace	40 - 49
85th Percentile	46.4	Number in Pace	311
90th Percentile	47.5	Percent in Pace	85%
95th Percentile	48.6		

VOLUME

Winter Gardens Blvd 150' S/O Rockcrest Rd

Day: Tuesday
Date: 5/21/2019City: Lakeside
Project #: CA19_4218_002

DAILY TOTALS					NB	SB						EB	WB						Total
					7,146	7,565						0	0						14,711
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00	8	17			25		12:00	94	113			207							207
00:15	6	17			23		12:15	95	93			188							188
00:30	5	10			15		12:30	87	94			181							181
00:45	5	24	5	49	10	73	12:45	93	369	91	391	184	760						760
01:00	1	4			5		13:00	106	88			194							194
01:15	3	6			9		13:15	101	117			218							218
01:30	10	6			16		13:30	135	102			237							237
01:45	4	18	6	22	10	40	13:45	98	440	122	429	220	869						869
02:00	5	4			9		14:00	116	148			264							264
02:15	3	9			12		14:15	151	153			304							304
02:30	7	7			14		14:30	137	175			312							312
02:45	7	22	2	22	9	44	14:45	166	570	250	726	416	1296						1296
03:00	3	2			5		15:00	170	184			354							354
03:15	8	5			13		15:15	154	175			329							329
03:30	10	2			12		15:30	127	174			301							301
03:45	8	29	5	14	13	43	15:45	146	597	196	729	342	1326						1326
04:00	15	6			21		16:00	129	167			296							296
04:15	20	7			27		16:15	145	167			312							312
04:30	24	9			33		16:30	129	188			317							317
04:45	24	83	8	30	32	113	16:45	137	540	173	695	310	1235						1235
05:00	39	14			53		17:00	128	158			286							286
05:15	38	17			55		17:15	140	180			320							320
05:30	65	20			85		17:30	103	187			290							290
05:45	66	208	26	77	92	285	17:45	111	482	149	674	260	1156						1156
06:00	79	35			114		18:00	85	131			216							216
06:15	97	33			130		18:15	91	115			206							206
06:30	111	74			185		18:30	75	107			182							182
06:45	135	422	69	211	204	633	18:45	81	332	100	453	181	785						785
07:00	142	86			228		19:00	63	100			163							163
07:15	136	87			223		19:15	55	72			127							127
07:30	163	105			268		19:30	71	72			143							143
07:45	166	607	174	452	340	1059	19:45	53	242	80	324	133	566						566
08:00	200	165			365		20:00	59	74			133							133
08:15	138	197			335		20:15	70	73			143							143
08:30	156	143			299		20:30	59	82			141							141
08:45	128	622	85	590	213	1212	20:45	44	232	71	300	115	532						532
09:00	101	94			195		21:00	42	54			96							96
09:15	86	82			168		21:15	42	43			85							85
09:30	78	79			157		21:30	33	52			85							85
09:45	80	345	71	326	151	671	21:45	27	144	35	184	62	328						328
10:00	68	83			151		22:00	22	42			64							64
10:15	92	56			148		22:15	17	39			56							56
10:30	72	70			142		22:30	18	27			45							45
10:45	112	344	85	294	197	638	22:45	23	80	30	138	53	218						218
11:00	80	89			169		23:00	8	24			32							32
11:15	87	90			177		23:15	14	19			33							33
11:30	75	107			182		23:30	11	11			22							22
11:45	104	346	85	371	189	717	23:45	15	48	10	64	25	112						112
TOTALS	3070	2458			5528		TOTALS	4076	5107			9183							9183
SPLIT %	55.5%	44.5%			37.6%		SPLIT %	44.4%	55.6%			62.4%							62.4%

DAILY TOTALS					NB	SB						EB	WB						Total
					7,146	7,565						0	0						14,711
AM Peak Hour	07:30	07:45			07:45		PM Peak Hour	14:30	14:30			14:30							14:30
AM Pk Volume	667	679			1339		PM Pk Volume	627	784			1411							1411
Pk Hr Factor	0.834	0.862			0.917		Pk Hr Factor	0.922	0.784			0.848							0.848
7 - 9 Volume	1229	1042	0	0	2271		4 - 6 Volume	1022	1369	0	0	2391							2391
7 - 9 Peak Hour	07:30	07:45			07:45		4 - 6 Peak Hour	16:00	16:30			16:00							16:00
7 - 9 Pk Volume	667	679	0	0	1339		4 - 6 Pk Volume	540	699	0	0	1235							1235
Pk Hr Factor	0.834	0.862	0.000	0.000	0.917		Pk Hr Factor	0.931	0.930	0.000	0.000	0.974							0.974

VOLUME

Winter Gardens Blvd 200' N/O Lemon Crest Dr

Day: Tuesday
Date: 5/21/2019City: Lakeside
Project #: CA19_4218_001

DAILY TOTALS					NB	SB	EB					WB	Total
					7,239	8,898	0					0	16,137
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00	9	21			30		12:00	86	119			205	
00:15	8	15			23		12:15	86	116			202	
00:30	3	14			17		12:30	87	128			215	
00:45	3	23	12	62	15	85	12:45	98	357	117	480	215	837
01:00	9	12			21		13:00	100	124			224	
01:15	8	10			18		13:15	94	139			233	
01:30	15	3			18		13:30	125	129			254	
01:45	2	34	5	30	7	64	13:45	86	405	163	555	249	960
02:00	6	6			12		14:00	107	180			287	
02:15	3	8			11		14:15	112	202			314	
02:30	6	8			14		14:30	137	196			333	
02:45	6	21	2	24	8	45	14:45	169	525	203	781	372	1306
03:00	4	4			8		15:00	174	210			384	
03:15	7	3			10		15:15	135	212			347	
03:30	14	2			16		15:30	127	214			341	
03:45	9	34	5	14	14	48	15:45	142	578	248	884	390	1462
04:00	15	7			22		16:00	110	199			309	
04:15	25	6			31		16:15	116	198			314	
04:30	35	6			41		16:30	124	240			364	
04:45	36	111	8	27	44	138	16:45	116	466	202	839	318	1305
05:00	52	15			67		17:00	118	195			313	
05:15	62	14			76		17:15	104	212			316	
05:30	84	15			99		17:30	93	250			343	
05:45	87	285	26	70	113	355	17:45	107	422	201	858	308	1280
06:00	100	32			132		18:00	86	172			258	
06:15	123	34			157		18:15	95	154			249	
06:30	144	78			222		18:30	68	155			223	
06:45	136	503	69	213	205	716	18:45	90	339	131	612	221	951
07:00	155	89			244		19:00	62	129			191	
07:15	132	87			219		19:15	55	108			163	
07:30	152	123			275		19:30	68	85			153	
07:45	193	632	153	452	346	1084	19:45	54	239	100	422	154	661
08:00	173	178			351		20:00	48	109			157	
08:15	177	141			318		20:15	67	101			168	
08:30	175	125			300		20:30	45	114			159	
08:45	137	662	92	536	229	1198	20:45	59	219	93	417	152	636
09:00	113	91			204		21:00	37	74			111	
09:15	101	92			193		21:15	39	66			105	
09:30	86	83			169		21:30	32	65			97	
09:45	89	389	80	346	169	735	21:45	29	137	44	249	73	386
10:00	71	91			162		22:00	22	47			69	
10:15	93	80			173		22:15	19	47			66	
10:30	74	82			156		22:30	22	35			57	
10:45	96	334	98	351	194	685	22:45	28	91	36	165	64	256
11:00	91	95			186		23:00	11	25			36	
11:15	94	95			189		23:15	17	21			38	
11:30	89	123			212		23:30	7	16			23	
11:45	115	389	124	437	239	826	23:45	9	44	12	74	21	118
TOTALS	3417	2562			5979		TOTALS	3822	6336			10158	
SPLIT %	57.2%	42.8%			37.1%		SPLIT %	37.6%	62.4%			62.9%	

DAILY TOTALS					NB	SB						EB	WB	Total
					7,239	8,898						0	0	16,137
AM Peak Hour	07:45	07:45			07:45	PM Peak Hour	14:30	15:45			15:00			
AM Pk Volume	718	597			1315	PM Pk Volume	615	885			1462			
Pk Hr Factor	0.930	0.838			0.937	Pk Hr Factor	0.884	0.892			0.937			
7 - 9 Volume	1294	988	0	0	2282	4 - 6 Volume	888	1697	0	0	2585			
7 - 9 Peak Hour	07:45	07:45			07:45	4 - 6 Peak Hour	16:15	16:45			16:30			
7 - 9 Pk Volume	718	597	0	0	1315	4 - 6 Pk Volume	474	859	0	0	1311			
Pk Hr Factor	0.930	0.838	0.000	0.000	0.937	Pk Hr Factor	0.956	0.859	0.000	0.000	0.900			

VOLUME

Winter Gardens Blvd S/O Winter Gardens Dr

Day: Tuesday
Date: 5/21/2019City: Lakeside
Project #: CA19_4218_003

DAILY TOTALS					NB	SB						EB	WB						Total
					7,298	7,640						0	0						14,938
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00	9	11			20		12:00	89	101			190							190
00:15	13	12			25		12:15	87	93			180							180
00:30	8	12			20		12:30	96	97			193							193
00:45	2	32	8	43	10	75	12:45	106	378	93	384	199	762						762
01:00	2	4			6		13:00	107	103			210							210
01:15	1	2			3		13:15	113	93			206							206
01:30	2	3			5		13:30	123	109			232							232
01:45	7	12	6	15	13	27	13:45	105	448	105	410	210	858						858
02:00	7	3			10		14:00	122	121			243							243
02:15	8	10			18		14:15	173	120			293							293
02:30	5	7			12		14:30	186	136			322							322
02:45	8	28	3	23	11	51	14:45	167	648	187	564	354	1212						1212
03:00	5	6			11		15:00	151	185			336							336
03:15	9	3			12		15:15	149	190			339							339
03:30	6	6			12		15:30	146	189			335							335
03:45	5	25	6	21	11	46	15:45	169	615	185	749	354	1364						1364
04:00	11	5			16		16:00	149	134			283							283
04:15	12	14			26		16:15	140	164			304							304
04:30	19	21			40		16:30	172	173			345							345
04:45	15	57	27	67	42	124	16:45	142	603	164	635	306	1238						1238
05:00	27	32			59		17:00	144	159			303							303
05:15	32	45			77		17:15	144	165			309							309
05:30	40	52			92		17:30	127	166			293							293
05:45	45	144	42	171	87	315	17:45	109	524	146	636	255	1160						1160
06:00	46	61			107		18:00	122	116			238							238
06:15	66	76			142		18:15	104	110			214							214
06:30	72	114			186		18:30	106	118			224							224
06:45	115	299	88	339	203	638	18:45	104	436	87	431	191	867						867
07:00	99	101			200		19:00	97	78			175							175
07:15	100	119			219		19:15	79	63			142							142
07:30	119	138			257		19:30	78	75			153							153
07:45	144	462	153	511	297	973	19:45	72	326	56	272	128	598						598
08:00	147	136			283		20:00	68	63			131							131
08:15	138	165			303		20:15	103	53			156							156
08:30	109	185			294		20:30	73	73			146							146
08:45	104	498	145	631	249	1129	20:45	63	307	55	244	118	551						551
09:00	91	137			228		21:00	69	44			113							113
09:15	88	91			179		21:15	54	48			102							102
09:30	69	95			164		21:30	41	47			88							88
09:45	80	328	78	401	158	729	21:45	46	210	35	174	81	384						384
10:00	81	95			176		22:00	31	37			68							68
10:15	78	88			166		22:15	31	26			57							57
10:30	80	89			169		22:30	29	30			59							59
10:45	104	343	93	365	197	708	22:45	27	118	17	110	44	228						228
11:00	78	104			182		23:00	20	20			40							40
11:15	105	87			192		23:15	24	22			46							46
11:30	78	97			175		23:30	18	11			29							29
11:45	114	375	94	382	208	757	23:45	20	82	9	62	29	144						144
TOTALS	2603	2969			5572		TOTALS	4695	4671			9366							9366
SPLIT %	46.7%	53.3%			37.3%		SPLIT %	50.1%	49.9%			62.7%							62.7%

DAILY TOTALS					NB	SB						EB	WB						Total
					7,298	7,640						0	0						14,938
AM Peak Hour	07:30	07:45			07:45		PM Peak Hour	14:15	14:45			14:45							14:45
AM Pk Volume	548	639			1177		PM Pk Volume	677	751			1364							1364
Pk Hr Factor	0.932	0.864			0.971		Pk Hr Factor	0.910	0.988			0.963							0.963
7 - 9 Volume	960	1142	0	0	2102		4 - 6 Volume	1127	1271	0	0	2398							2398
7 - 9 Peak Hour	07:30	07:45			07:45		4 - 6 Peak Hour	16:00	16:30			16:30							16:30
7 - 9 Pk Volume	548	639	0	0	1177		4 - 6 Pk Volume	603	661	0	0	1263							1263
Pk Hr Factor	0.932	0.864	0.000	0.000	0.971		Pk Hr Factor	0.876	0.955	0.000	0.000	0.915							0.915

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-I**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Intersection Control

LOCATION: Lake Jennings Park Road & Julian Avenue / El Monte Road, LAKESIDE (Thos. Bros. 1232-D3)

INITIATED BY: DPW Traffic Engineering

REQUEST: Traffic Control Signal

PROBLEM AS STATED BY REQUESTER:

The intersection of Lake Jennings Park Road & Julian Avenue / El Monte Road has been identified by Traffic Engineering as meeting California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 4C.04 Warrant 1, Eight Hour Vehicular Volume, Warrant 2, Four-Hour Vehicular Volume, & Warrant 3, Peak Hour, therefore a traffic control signal could be considered.

Existing Traffic Devices

Lake Jennings Park Road is a striped through highway with a no passing centerline striping, two way left, & bike lane. East of the intersection with Julian Avenue / El Monte Road it is a three-lane roadway and has a 70-foot travelled way and roadbed. West of the intersection it is a five-lane roadway and has a 96-foot travelled way and roadbed. The roadway is classified as a Major Road on the County General Plan Mobility Element Network and posted 55 MPH.

Julian Avenue is a striped two-lane through highway with a no passing centerline and white edge line striping. The road has a 28-foot travelled way on a 40-foot roadbed. The roadway is classified as a Light Collector on the County General Plan Mobility Element Network and posted 40 MPH.

El Monte Road is a striped two-lane through highway with a no passing centerline and white edge line striping. The road has a 24-foot travelled way on a 38-foot roadbed. The roadway is classified as a Minor Collector on the County General Plan Mobility Element Network and has no posted speed limit.

Lake Jennings Park Road, Julian Avenue, & El Monte Road intersect at an all-way stop intersection.

Lake Jennings Park Road &
Julian Avenue / El Monte Rd

2

2-I

Average Daily Traffic Volumes

10/19

01/14

Lake Jennings Park Road:

W/o El Monte Rd / Julian Avenue

6,447 EB

5,099 EB

E/o El Monte Rd / Julian Avenue

7,204 WB

5,790 WB

Julain Avenue:

S/o Lake Jennings Park Road

2,585 NB

2,098 NB

El Monte Road:

N/o Lake Jennings Park Road

1,673 SB

833 SB

Collision Data

There have been six reported collisions at this intersection, none involving injury, within a three-year period (08-01-16 to 07-31-19). These collisions resulted in an intersection accident rate of 0.31 collisions per million vehicles entering the intersection. The statewide average is 0.27 for similar 4 way stop controlled four-legged, multi-legged, or offset suburban intersections.

2-I. Intersection Control

Lake Jennings Park Road & Julian Avenue / El Monte Road





County of San Diego

DEPARTMENT OF PUBLIC WORKS
5510 OVERLAND AVE, SUITE 410
SAN DIEGO, CALIFORNIA 92123-1237
(858) 694-2212 FAX: (858) 694-3597
Web Site: www.sdcountry.ca.gov/dpw/

COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: November 18, 2019

Item Title: Traffic Control Signal

Location: Lake Jennings Park Road and Julian Av. / El Monte Rd.

CTE Recommendation: **Install a Traffic Control Signal** *ZAO*

Conditions:

- Section 21351 of the California Vehicle Code (CVC) authorizes a local agency to place and maintain or cause to be placed and maintained traffic signs, signals and other traffic control devices upon streets and highways within their jurisdiction as may be necessary to warn and guide traffic.
- Chapter 4C "Traffic Control Signal Needs Studies" of the California Manual on Uniform Traffic Control Devices (MUTCD), provides guidance for the preparation of an engineering study of traffic conditions to determine whether a traffic control signal is justified.
- The posted speed limit on Lake Jennings Park Road is 55 MPH and 40 MPH on Julian Avenue and the intersection total approach ADT is 12,670 vehicles/day.
- An engineering study following Chapter 4C of the California MUTCD guidelines, shows that the subject intersection meets warrants 1 (Eight Hour Vehicular Volume), 2 (Four Hour Vehicular Volume) and 3 (Peak Hour) based on the intersection approach traffic volumes. Hence, a traffic signal control can be considered for the intersection of Lake Jennings Park Road and Julian Avenue / El Monte Road.

- It is my recommendation, as the County Traffic Engineer to place a traffic control signal at the intersection of Lake Jennings Park Road and Julian Avenue / El Monte Road pursuant to Section 21351 of the CVC and the engineering study (warrant analysis), dated October 3, 2019.

VOLUME

Lake Jennings Park Rd & El Monte Rd/Julian Ave

Day: Thursday

Date: 10/3/2019

City: Lakeside

Project #: CA19_4383_001 thru _004

DAILY TOTALS										NB	SB	EB										WB	Total
										2,585	1,673											6,447	7,204
AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL			
00:00	2		2		11		8		23		12:00	31		35		54		77		197			
00:15	3		0		15		11		29		12:15	24		37		73		66		200			
00:30	1		2		18		3		24		12:30	24		54		65		86		229			
00:45	0	6	3	7	5	49	6	28	14	90	12:45	30	109	35	161	89	281	64	293	218	844		
01:00	3		0		4		6		13		13:00	31		30		79		96		236			
01:15	2		0		6		6		14		13:15	30		44		83		73		230			
01:30	0		0		4		8		12		13:30	39		24		115		108		286			
01:45	1	6	1	1	9	23	1	21	12	51	13:45	40	140	39	137	99	376	84	361	262	1014		
02:00	0		0		6		6		12		14:00	37		30		99		93		259			
02:15	2		1		10		11		24		14:15	55		28		97		127		307			
02:30	1		1		12		3		17		14:30	34		28		143		121		326			
02:45	1	4	0	2	7	35	7	27	15	68	14:45	64	190	25	111	172	511	107	448	368	1260		
03:00	0		1		3		7		11		15:00	68		23		134		108		333			
03:15	0		2		2		5		9		15:15	54		25		139		114		332			
03:30	5		1		4		18		28		15:30	65		33		147		127		372			
03:45	2	7	2	6	5	14	8	38	17	65	15:45	46	233	39	120	144	564	151	500	380	1417		
04:00	3		2		8		13		26		16:00	59		24		146		111		340			
04:15	4		2		9		21		36		16:15	71		28		132		116		347			
04:30	5		2		10		22		39		16:30	67		39		176		119		401			
04:45	8	20	9	15	15	42	39	95	71	172	16:45	69	266	34	125	151	605	127	473	381	1469		
05:00	14		10		14		53		91		17:00	61		30		144		140		375			
05:15	10		13		31		47		101		17:15	74		37		144		132		387			
05:30	16		12		41		76		145		17:30	66		27		140		111		344			
05:45	19	59	9	44	50	136	101	277	179	516	17:45	49	250	23	117	141	569	98	481	311	1417		
06:00	27		21		46		92		186		18:00	43		31		128		97		299			
06:15	24		30		45		177		276		18:15	44		24		131		80		279			
06:30	39		28		62		261		390		18:30	34		24		138		75		271			
06:45	41	131	27	106	86	239	192	722	346	1198	18:45	34	155	39	118	117	514	76	328	266	1115		
07:00	40		32		81		167		320		19:00	46		30		117		60		253			
07:15	39		22		83		202		346		19:15	29		19		104		54		206			
07:30	46		27		70		228		371		19:30	33		12		84		59		188			
07:45	36	161	19	100	94	328	258	855	407	1444	19:45	18	126	17	78	65	370	47	220	147	794		
08:00	46		25		99		241		411		20:00	27		7		66		43		143			
08:15	50		22		116		141		329		20:15	18		9		60		42		129			
08:30	49		34		58		135		276		20:30	25		9		45		45		124			
08:45	30	175	22	103	101	374	112	629	265	1281	20:45	16	86	4	29	41	212	30	160	91	487		
09:00	32		19		72		113		236		21:00	16		8		53		33		110			
09:15	23		13		70		95		201		21:15	13		2		45		29		89			
09:30	20		17		59		92		188		21:30	12		5		49		33		99			
09:45	37	112	13	62	75	276	80	380	205	830	21:45	9	50	8	23	49	196	21	116	87	385		
10:00	27		20		67		84		198		22:00	10		2		18		21		51			
10:15	24		13		76		84		197		22:15	4		7		34		20		65			
10:30	32		22		59		71		184		22:30	6		5		35		20		66			
10:45	25	108	21	76	57	259	70	309	173	752	22:45	6	26	3	17	31	118	13	74	53	235		
11:00	27		34		79		83		223		23:00	6		2		17		18		43			
11:15	40		24		69		84		217		23:15	5		0		24		25		54			
11:30	40		30		69		61		200		23:30	8		3		22		19		52			
11:45	34	141	20	108	69	286	72	300	195	835	23:45	5	24	2	7	7	70	7	69	21	170		
TOTALS	930		630		2061		3681		7302		TOTALS	1655		1043		4386		3523		10607			
SPLIT %	12.7%		8.6%		28.2%		50.4%		40.8%		SPLIT %	15.6%		9.8%		41.4%		33.2%		59.2%			

DAILY TOTALS					NB	SB						EB	WB						Total
					2,585	1,673						6,447	7,204						17,909
AM Peak Hour	07:45	11:45	07:30	07:15	07:15		PM Peak Hour	16:30	12:30	16:30	16:30	16:30							16:30
AM Pk Volume	181	146	379	929	1535		PM Pk Volume	271	163	615	518	1544							1544
Pk Hr Factor	0.905	0.676	0.817	0.900	0.934		Pk Hr Factor	0.916	0.755	0.874	0.925	0.963							0.963
7 - 9 Volume	336	203	702	1484	2725		4 - 6 Volume	516	242	1174	954	2886							2886
7 - 9 Peak Hour	07:45	08:00	07:30	07:15	07:15		4 - 6 Peak Hour	16:30	16:30	16:30	16:30	16:30							16:30
7 - 9 Pk Volume	181	103	379	929	1535		4 - 6 Pk Volume	271	140	615	518	1544							1544
Pk Hr Factor	0.905	0.757	0.817	0.900	0.934		Pk Hr Factor	0.916	0.897	0.874	0.925	0.963							0.963

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 10/3/19
 CALC E. BARTLEY DATE 10/30/19
 CHK ZAO DATE 11/18/19

DIST _____ CO _____ RTE _____ PM _____

Major St: LAKE JENNINGS PARK ROAD Critical Approach Speed 55 mph
 Minor St: JULIAN AVE / EL MONTE RD Critical Approach Speed 40 mph

Speed limit or critical speed on major street traffic > 40 mph..... ☒
 or
 In built up area of isolated community of < 10,000 population..... ☐ **RURAL (R)**
☐ **URBAN (U)**

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☒ NO ☐
 (Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume

100% SATISFIED YES ☒ NO ☐
 80% SATISFIED YES ☒ NO ☐

MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				80% SATISFIED YES ☒ NO ☐									
APPROACH LANES	U	R	U	R									
	1		2 or More										
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)	16:00 961	7:00 1183	8:00 1003	14:00 959	15:00 1064	16:00 1078	17:00 1050	18:00 842	Hour
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	131	161	175	190	233	246	250	155	

Condition B - Interruption of Continuous Traffic

100% SATISFIED YES ☒ NO ☐
 80% SATISFIED YES ☒ NO ☐

MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				80% SATISFIED YES ☒ NO ☐									
		U	R	U	R								
APPROACH LANES	1		2 or More										
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)	6:00 961	7:00 1183	8:00 1003	9:00 959	10:00 1064	11:00 1078	12:00 1050	1:00 842	Hour
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	131	161	175	190	233	246	250	155	

Combination of Conditions A & B

SATISFIED YES ☒ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☒ No ☐
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☒ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 2 of 5)

WARRANT 2 - Four Hour Vehicular Volume

SATISFIED* YES ☒ NO ☐

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More	7:00	15:00	16:00	17:00	Hour
Both Approaches - Major Street		☒	1183	1064	1078	1050	
Higher Approach - Minor Street	☒		161	233	266	250	

*All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes ☒	No ☐
<u>OR</u> , All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes ☒	No ☐

**WARRANT 3 - Peak Hour
(Part A or Part B must be satisfied)**

SATISFIED YES ☒ NO ☐

PART A

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

SATISFIED YES ☐ NO ☒ *NOT ANALYZED*

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; <u>AND</u>	Yes ☐	No ☐
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>	Yes ☒	No ☐
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes ☒	No ☐

PART B

SATISFIED YES ☒ NO ☐

APPROACH LANES	One	2 or More	11:00	Hour
Both Approaches - Major Street		☒	1678	
Higher Approach - Minor Street	☒		266	

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes ☐	No ☐
<u>OR</u> , The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes ☒	No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 3 of 5)

WARRANT 4 - Pedestrian Volume
(Parts 1 and 2 Must Be Satisfied)

SATISFIED YES ☐ NO ☒

Part 1 (Parts A or B must be satisfied)

Hours --->

A.

Vehicles per hour for any 4 hours				
Pedestrians per hour for any 4 hours				

Figure 4C-5 or Figure 4C-6
SATISFIED YES ☐ NO ☐

Hours --->

B.

Vehicles per hour for any 1 hour				
Pedestrians per hour for any 1 hour				

Figure 4C-7 or Figure 4C-8
SATISFIED YES ☐ NO ☐

Part 2

SATISFIED YES ☐ NO ☐

<u>AND</u> . The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☐	No ☐
<u>OR</u> . The proposed traffic signal will not restrict progressive traffic flow along the major street.	Yes ☐	No ☐

WARRANT 5 - School Crossing
(Parts A and B Must Be Satisfied)

SATISFIED YES ☐ NO ☒

Part A

Gap/Minutes and # of Children

SATISFIED YES ☐ NO ☐

Gaps vs Minutes	Minutes Children Using Crossing	
	Number of Adequate Gaps	
School Age Pedestrians Crossing Street / hr		

Hour

Gaps < Minutes YES ☐ NO ☐

AND Children > 20/hr YES ☐ NO ☐

<u>AND</u> . Consideration has been given to less restrictive remedial measures.	Yes ☐	No ☐
--	------------------------------	-----------------------------

Part B

SATISFIED YES ☐ NO ☐

The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☐	No ☐
<u>OR</u> . The proposed signal will not restrict the progressive movement of traffic.	Yes ☐	No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 4 of 5)

WARRANT 6 - Coordinated Signal System
(All Parts Must Be Satisfied)

SATISFIED YES ☐ NO ☒

MINIMUM REQUIREMENTS	DISTANCE TO NEAREST SIGNAL	
≥ 1000 ft	N _____ ft, S _____ ft, E _____ ft, W _____ ft	Yes ☐ No ☐
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals are so far apart that they do not provide the necessary degree of vehicular platooning.		Yes ☐ No ☐
OR, On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.		Yes ☐ No ☐

WARRANT 7 - Crash Experience Warrant
(All Parts Must Be Satisfied)

SATISFIED YES ☐ NO ☒

Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency.		Yes ☐ No ☐
REQUIREMENTS	Number of crashes reported within a 12 month period susceptible to correction by a traffic signal, and involving injury or damage exceeding the requirements for a reportable crash.	Yes ☐ No ☒
5 OR MORE		
REQUIREMENTS	CONDITIONS	
ONE CONDITION SATISFIED 80%	Warrant 1, Condition A - Minimum Vehicular Volume	Yes ☒ No ☐
	OR, Warrant 1, Condition B - Interruption of Continuous Traffic	Yes ☒ No ☐
	OR, Warrant 4, Pedestrian Volume Condition Ped Vol ≥ 80% of Figure 4C-5 through Figure 4C-8	Yes ☐ No ☐

WARRANT 8 - Roadway Network
(All Parts Must Be Satisfied)

SATISFIED YES ☐ NO ☒

MINIMUM VOLUME REQUIREMENTS	ENTERING VOLUMES - ALL APPROACHES	✓	FULFILLED
1000 Veh/Hr	During Typical Weekday Peak Hour _____ Veh/Hr and has 5-year projected traffic volumes that meet one or more of Warrants 1, 2, and 3 during an average weekday.		Yes ☐ No ☐
	OR During Each of Any 5 Hrs. of a Sat. or Sun _____ Veh/Hr		
CHARACTERISTICS OF MAJOR ROUTES		MAJOR ROUTE A	MAJOR ROUTE B
Hwy. System Serving as Principal Network for Through Traffic			
Rural or Suburban Highway Outside Of, Entering, or Traversing a City			
Appears as Major Route on an Official Plan			
Any Major Route Characteristics Met, Both Streets			Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 5 of 5)

WARRANT 9 - Intersection Near a Grade Crossing *N/A* **SATISFIED YES ☐ NO ☒**
(Both Parts A and B Must Be Satisfied)

PART A A grade crossing exists on an approach controlled by a STOP or YIELD sign and the center of the track nearest to the intersection is within 140 feet of the stop line or yield line on the approach. Track Center Line to Limit Line _____ ft	Yes ☐ No ☐
PART B There is one minor street approach lane at the track crossing - During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-9. Major Street - Total of both approaches: _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH X AF (Use Tables 4C-2, 3, & 4 below to calculate AF) = _____ VPH OR, There are two or more minor street approach lanes at the track crossing - During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-10. Major Street - Total of both approaches : _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH X AF (Use Tables 4C-2, 3, & 4 below to calculate AF) = _____ VPH	Yes ☐ No ☐

The minor street approach volume may be multiplied by up to three following adjustment factors (AF) as described in Section 4C.10.

- 1- Number of Rail Traffic per Day _____ Adjustment factor from table 4C-2 _____
- 2- Percentage of High-Occupancy Buses on Minor Street Approach _____ Adjustment factor from table 4C-3 _____
- 3- Percentage of Tractor-Trailer Trucks on Minor Street Approach _____ Adjustment factor from table 4C-4 _____

NOTE: If no data is available or known, then use AF = 1 (no adjustment)

Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Condition A—Minimum Vehicular Volume

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100% ^a	80% ^b	70% ^c	56% ^d	100% ^a	80% ^b	70% ^c	56% ^d
1	1	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
1	2 or more	500	400	350	280	200	160	140	112

Condition B—Interruption of Continuous Traffic

Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)				Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100% ^a	80% ^b	70% ^c	56% ^d	100% ^a	80% ^b	70% ^c	56% ^d
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

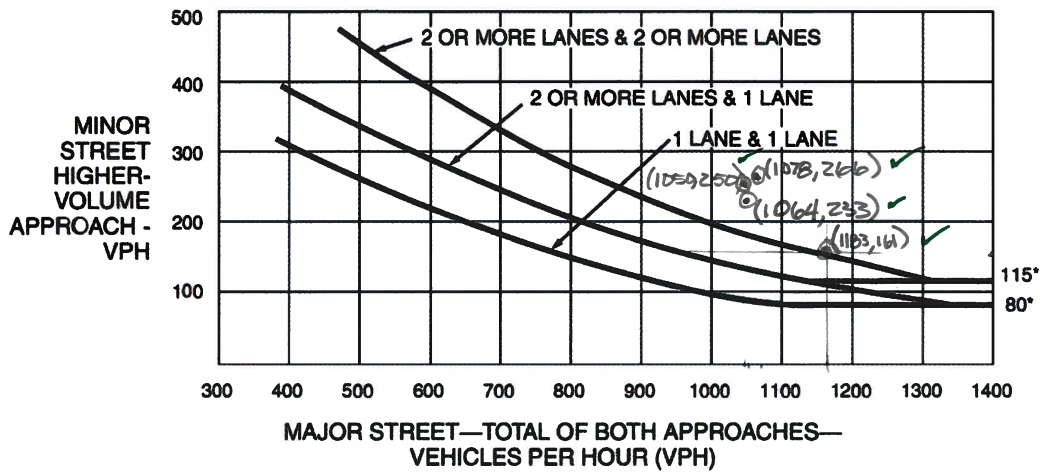
^a Basic minimum hourly volume

^b Used for combination of Conditions A and B after adequate trial of other remedial measures

^c May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

^d May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

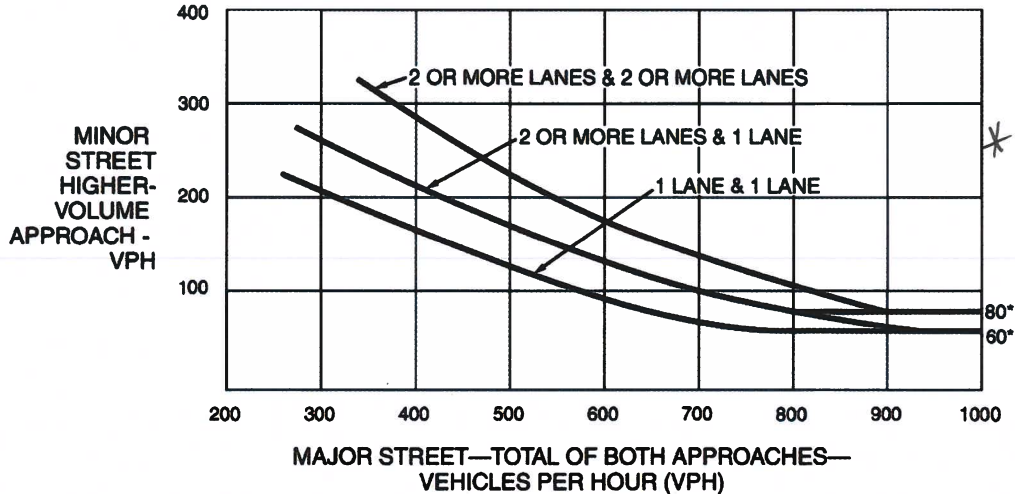
Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume



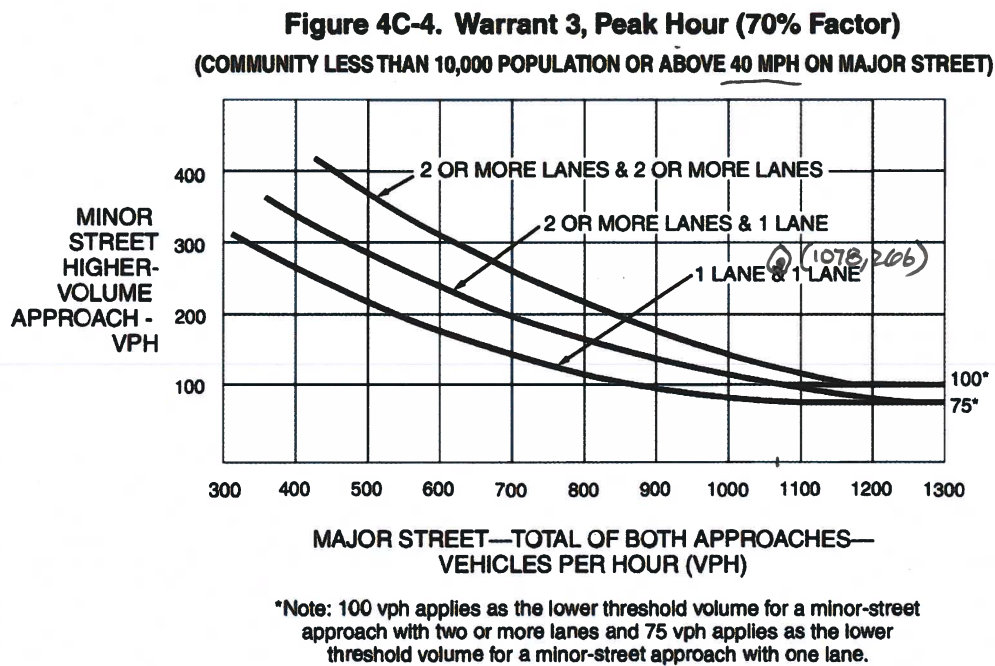
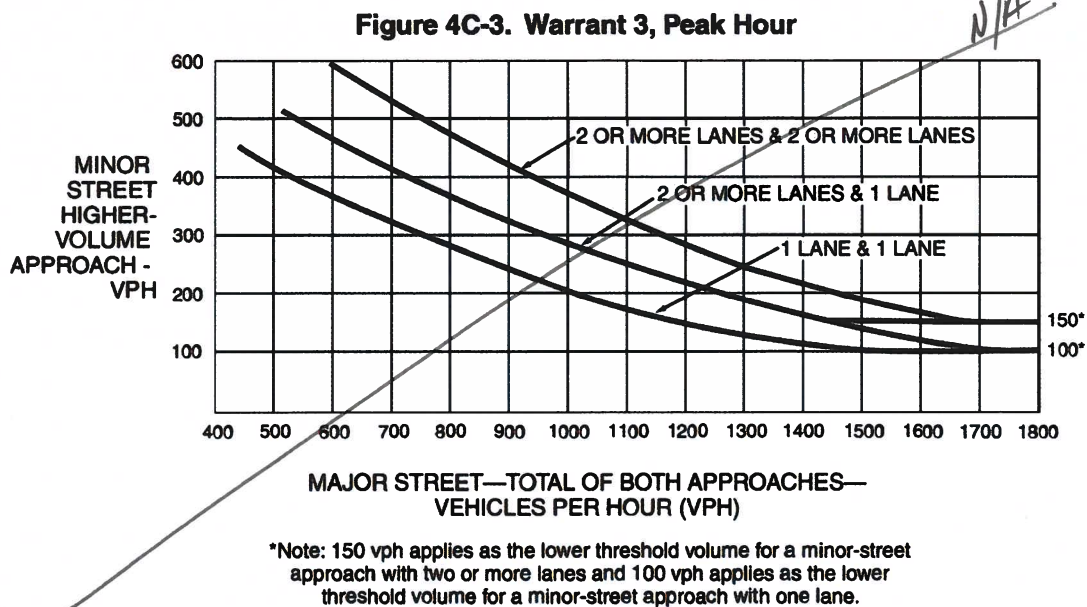
*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane.



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-J**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Lakeview Road from Los Coches Road to Julian Avenue (a distance of 1.59 miles), LAKESIDE (Thos. Bros. 1232-C6)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit Reduction

PROBLEM AS STATED BY REQUESTER:

Lakeview Road from Los Coches Road to Julian Avenue is posted 40 MPH. Preliminary review of prevailing speeds and roadway conditions could support reduction of a 35 MPH speed limit with radar certification.

Existing Traffic Devices

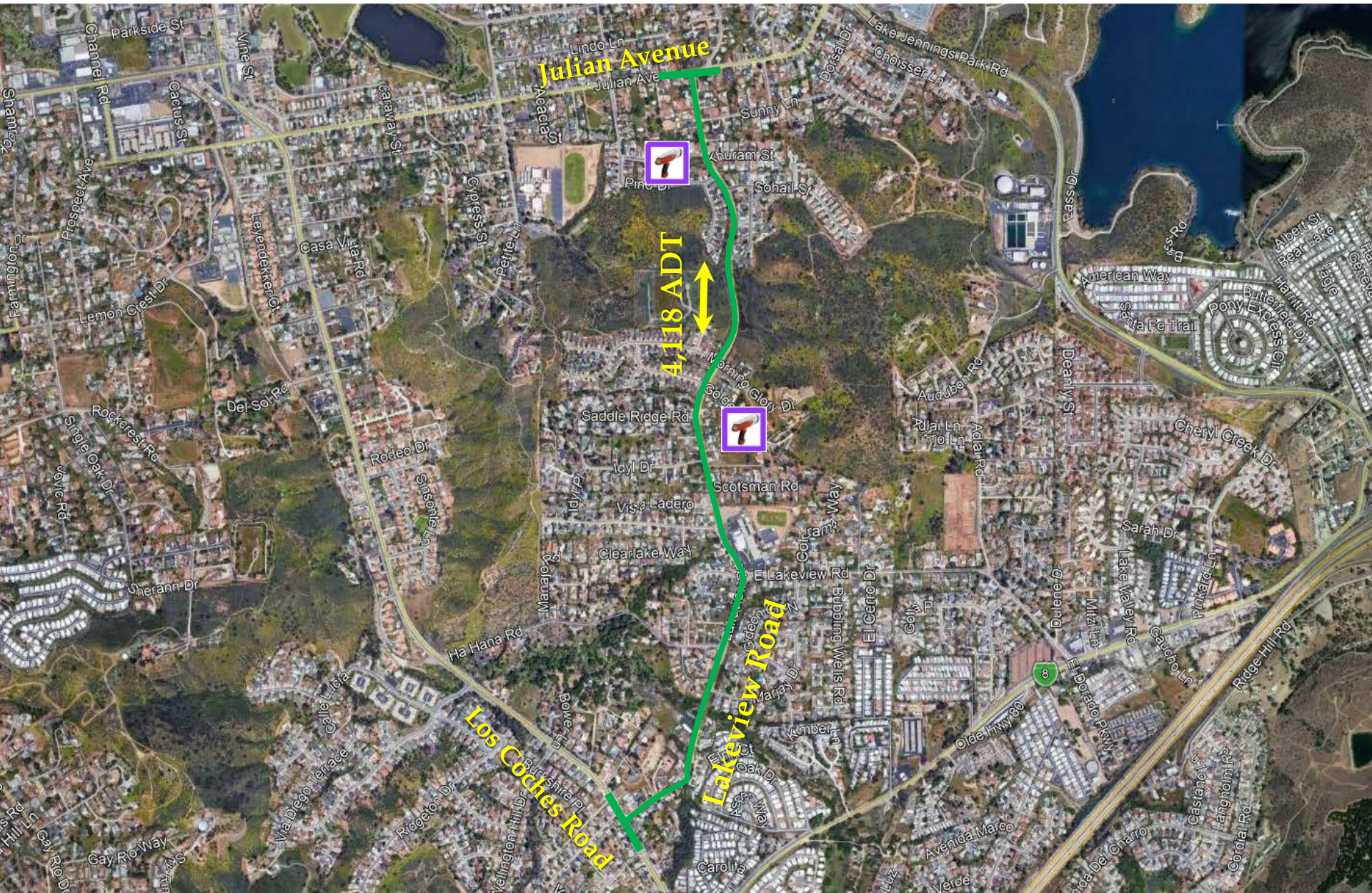
Lakeview Road is a striped two-lane roadway with a 24 to 28 foot travelled way on a 28 to 40 foot road bed. The roadway has a no passing centerline, edge line, and intermittent left turn pockets. Lakeview Road intersects E Lakeview Road at an all-way stop. The roadway also has The road is classified as a light collector on the County General Plan Mobility Element Network. The road is posted 40 MPH/Radar Enforced.

<u>Average Daily Traffic Volumes</u>		<u>12/18</u>	<u>09/11</u>	<u>06/05</u>
Lakeview Road				
200' S/o Saddle Ridge Road		4,118		
200' N/o Los Coches Road			5,548	4,700
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Lakeview Road				
500' S/o Saddle Ridge Road	(2019)	38.3 MPH	29-28	67.0%
	(2011)	43.8 MPH	35-44	62.0%
At Khuram Street	(2019)	39.9 MPH	31-40	69.0%
	(2011)	44.7 MPH	38-47	69.6%
Speed Zone	(2019)	39.1 MPH	30-39	68.0%

Collision Data

There have been 10 reported collisions along this segment of roadway, 6 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 1.40 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

Lakeview Road from Los Coches Road to Julian Ave (1.59 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Lakeview Road	CERTIFICATION DATE	03/11/2020
FROM	Los Coches Rd	TO	Julian Ave
SEGMENT LENGTH	1.59 miles	AREA	Lakeside

Prevailing Speeds: Posted Speed: **40 MPH**

Location	500' S/o Saddle Ridge Rd	@ Khuram St	Speed Zone
Date of Survey	11/28/2018	11/28/2018	11/28/2018
85 th Percentile	38.3 MPH	39.9 MPH	39.1 MPH
10 MPH Pace	29-38	31-40	30-39
Percent in Pace	67.0%	69.0%	68.0%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	10
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	1.40
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	6

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	4,118 vpd	Date Counted	12/11/2018
Number of Lanes	2	Road Striping	Centerline, Left Turn Ln, & Edge Lines
Mobility Element	Light Collector	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	12 - 14 ft
Roadbed Width	28 - 40 ft	Available Shoulders	2 - 8 ft
Road Curvature	Curvilinear	Intersecting Driveways	Some
Intersecting Roads	Minimal	Bike Lane/Route	None
Pedestrian Pathways	Partially Sidewalk		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



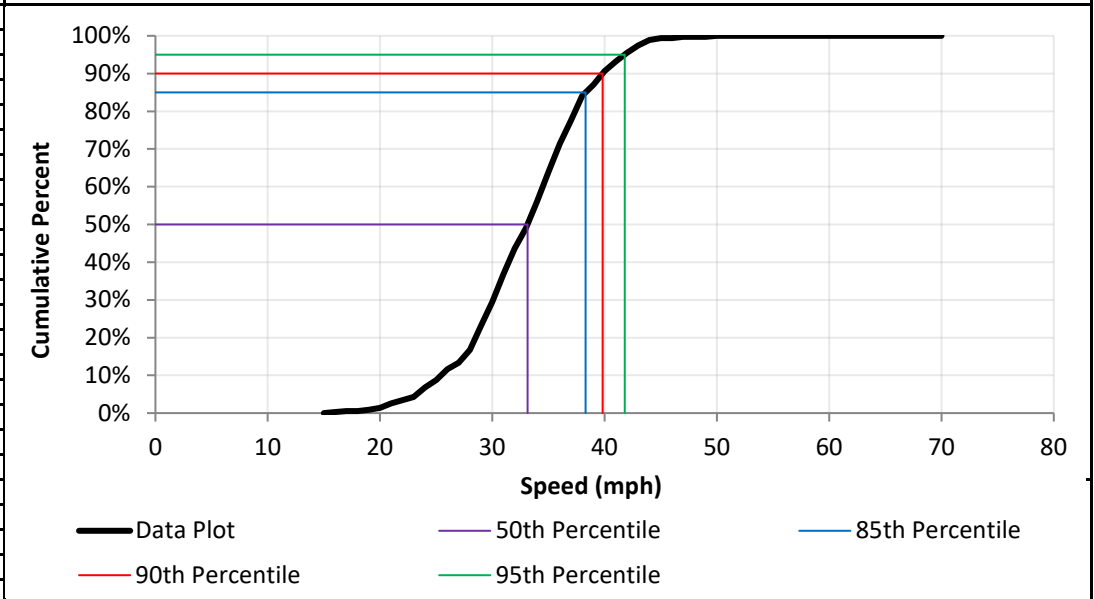
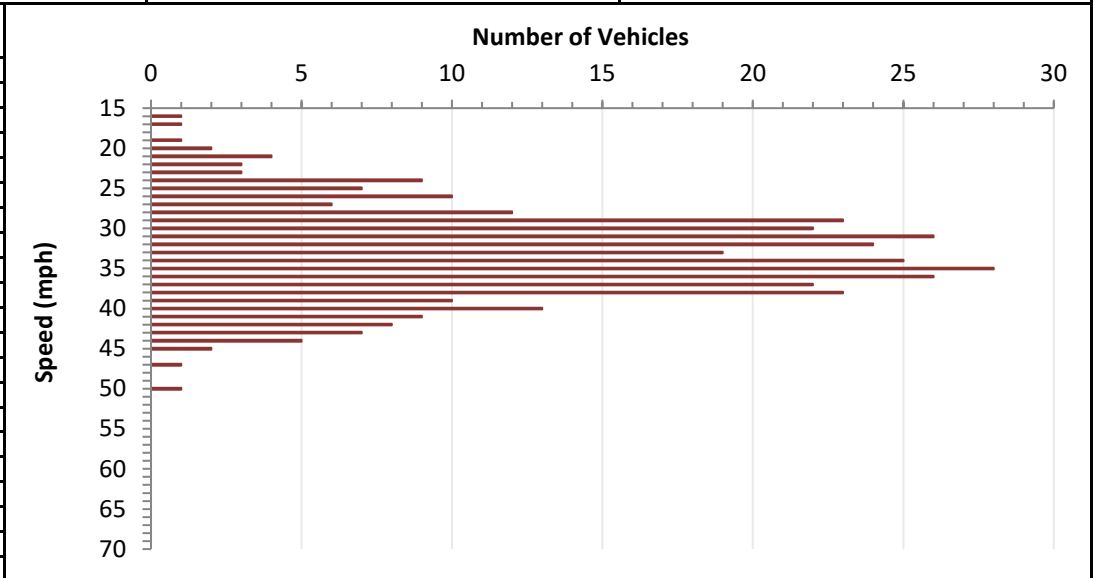
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Lakeview Road	From:	Julian Ave	To:	Los Coches Road
Position:	500' S/o Saddle Ridge Rd	Direction:	NB/SB		

Date:	11/28/2018	Weather:	Clear	Project Number:	0
Time Start:	11:10 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:10 PM	Posted Speed:	40 MPH	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16	1	0.3%
17	1	0.6%
18		
19	1	0.8%
20	2	1.4%
21	4	2.5%
22	3	3.4%
23	3	4.2%
24	9	6.8%
25	7	8.8%
26	10	11.6%
27	6	13.3%
28	12	16.7%
29	23	23.2%
30	22	29.5%
31	26	36.8%
32	24	43.6%
33	19	49.0%
34	25	56.1%
35	28	64.0%
36	26	71.4%
37	22	77.6%
38	23	84.1%
39	10	87.0%
40	13	90.7%
41	9	93.2%
42	8	95.5%
43	7	97.5%
44	5	98.9%
45	2	99.4%
46		
47	1	99.7%
48		
49		
50	1	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	353	



DATA ANALYSIS

Average Speed	33.3	Range	16 - 50
50th Percentile	33.1	10 mph Pace	29 - 38
85th Percentile	38.3	Number in Pace	238
90th Percentile	39.8	Percent in Pace	67%
95th Percentile	41.8		



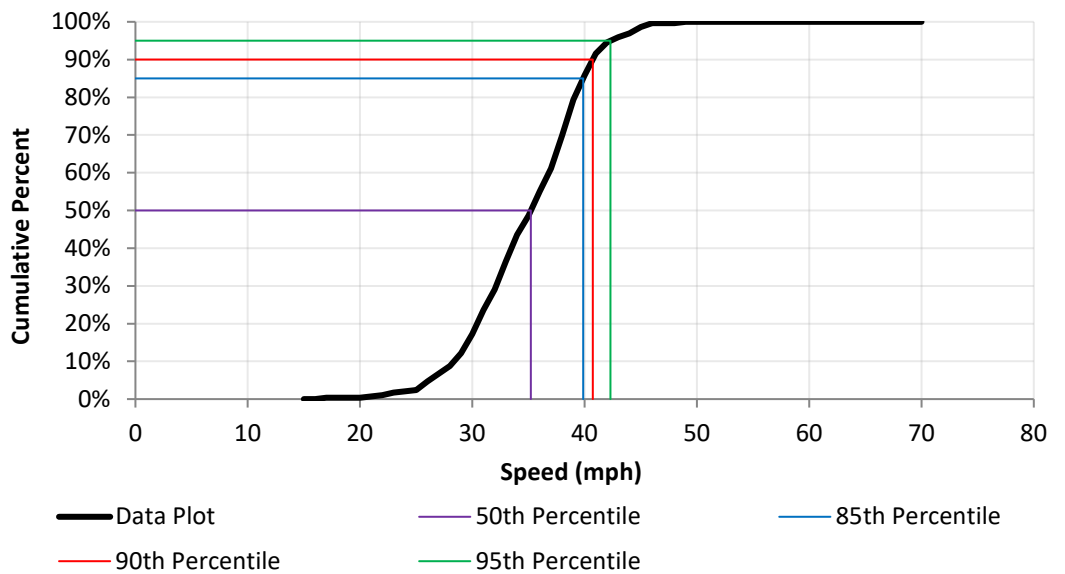
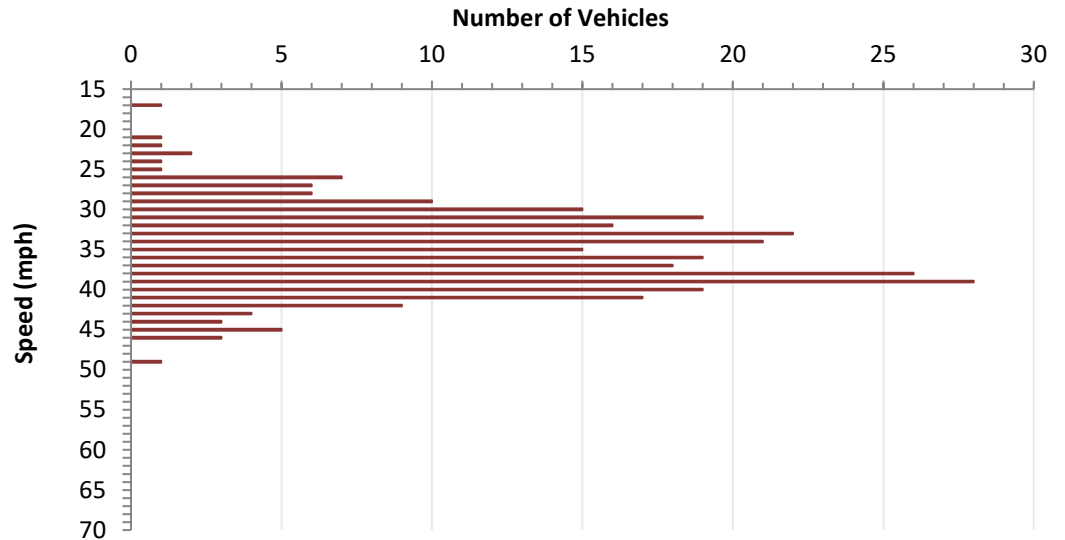
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Lakeview Road	From:	Julian Ave	To:	Los Coches Road
Position:	at Khuram St	Direction:	NB/SB		

Date:	11/28/2018	Weather:	Clear	Project Number:	0
Time Start:	1:20 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:20 PM	Posted Speed:	40 MPH	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17	1	0.3%
18		
19		
20		
21	1	0.7%
22	1	1.0%
23	2	1.7%
24	1	2.0%
25	1	2.4%
26	7	4.7%
27	6	6.8%
28	6	8.8%
29	10	12.2%
30	15	17.2%
31	19	23.6%
32	16	29.1%
33	22	36.5%
34	21	43.6%
35	15	48.6%
36	19	55.1%
37	18	61.1%
38	26	69.9%
39	28	79.4%
40	19	85.8%
41	17	91.6%
42	9	94.6%
43	4	95.9%
44	3	97.0%
45	5	98.6%
46	3	99.7%
47		
48		
49	1	100.0%
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	296	



DATA ANALYSIS

Average Speed	35.3	Range	17 - 49
50th Percentile	35.2	10 mph Pace	31 - 40
85th Percentile	39.9	Number in Pace	203
90th Percentile	40.7	Percent in Pace	69%
95th Percentile	42.3		

VOLUME

Lakeview Rd 200' S/O Saddle Ridge Rd

Day: Tuesday
Date: 12/11/2018City: Lakeside
Project #: CA18_4458_008

DAILY TOTALS					NB	SB						EB	WB	Total	
					2,056	2,062						0	0	4,118	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	2	1			3		12:00	25	18			43			
00:15	2	3			5		12:15	16	20			36			
00:30	0	1			1		12:30	11	25			36			
00:45	1	5	2	7	3	12	12:45	15	67	20	83	35	150		
01:00	3	1			4		13:00	26	22			48			
01:15	2	3			5		13:15	28	27			55			
01:30	3	1			4		13:30	32	31			63			
01:45	0	8	1	6	1	14	13:45	45	131	28	108	73	239		
02:00	1	1			2		14:00	36	66			102			
02:15	2	3			5		14:15	34	48			82			
02:30	0	1			1		14:30	42	57			99			
02:45	1	4	0	5	1	9	14:45	29	141	78	249	107	390		
03:00	1	2			3		15:00	137	64			201			
03:15	1	2			3		15:15	88	32			120			
03:30	2	1			3		15:30	38	34			72			
03:45	0	4	1	6	1	10	15:45	43	306	37	167	80	473		
04:00	2	2			4		16:00	35	32			67			
04:15	2	2			4		16:15	40	48			88			
04:30	6	2			8		16:30	41	52			93			
04:45	7	17	5	11	12	28	16:45	32	148	45	177	77	325		
05:00	5	9			14		17:00	37	47			84			
05:15	4	13			17		17:15	52	37			89			
05:30	9	21			30		17:30	43	39			82			
05:45	13	31	14	57	27	88	17:45	32	164	31	154	63	318		
06:00	16	17			33		18:00	37	25			62			
06:15	28	20			48		18:15	26	24			50			
06:30	45	25			70		18:30	20	31			51			
06:45	46	135	31	93	77	228	18:45	25	108	22	102	47	210		
07:00	62	55			117		19:00	19	24			43			
07:15	61	69			130		19:15	18	26			44			
07:30	37	33			70		19:30	14	16			30			
07:45	42	202	35	192	77	394	19:45	14	65	14	80	28	145		
08:00	45	87			132		20:00	15	17			32			
08:15	77	85			162		20:15	13	10			23			
08:30	66	28			94		20:30	13	10			23			
08:45	20	208	13	213	33	421	20:45	14	55	17	54	31	109		
09:00	23	17			40		21:00	7	8			15			
09:15	10	16			26		21:15	9	11			20			
09:30	12	18			30		21:30	10	7			17			
09:45	17	62	21	72	38	134	21:45	9	35	6	32	15	67		
10:00	15	16			31		22:00	5	3			8			
10:15	9	22			31		22:15	4	2			6			
10:30	12	27			39		22:30	5	6			11			
10:45	22	58	15	80	37	138	22:45	4	18	3	14	7	32		
11:00	20	29			49		23:00	3	3			6			
11:15	18	21			39		23:15	1	3			4			
11:30	23	20			43		23:30	5	2			7			
11:45	14	75	19	89	33	164	23:45	0	9	3	11	3	20		
TOTALS	809	831			1640		TOTALS	1247	1231			2478			
SPLIT %	49.3%	50.7%			39.8%		SPLIT %	50.3%	49.7%			60.2%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					2,056	2,062						0	0	4,118	
AM Peak Hour	07:45	07:30			07:45		PM Peak Hour	15:00	14:00			14:30			
AM Pk Volume	230	240			465		PM Pk Volume	306	249			527			
Pk Hr Factor	0.747	0.690			0.718		Pk Hr Factor	0.558	0.798			0.655			
7 - 9 Volume	410	405	0	0	815		4 - 6 Volume	312	331	0	0	643			
7 - 9 Peak Hour	07:45	07:30			07:45		4 - 6 Peak Hour	16:45	16:15			16:30			
7 - 9 Pk Volume	230	240	0	0	465		4 - 6 Pk Volume	164	192	0	0	343			
Pk Hr Factor	0.747	0.690	0.000	0.000	0.718		Pk Hr Factor	0.788	0.923	0.000	0.000	0.922			

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019

Item 2-K

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Certification

LOCATION: Palm Row Drive / Oak Creek Drive from Riverside Drive to the End of County Maintenance (a distance of 2.25 miles) EUCALYPTUS HILLS (Thos. Bros. 1231-H3)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit / Radar Certification

PROBLEM AS STATED BY REQUESTER:

Oak Creek Drive from Riverside Drive to Manzanita Road has a posted 40 MPH Radar Enforced speed limit. Preliminary review of prevailing speeds and roadway conditions could support radar certification of Palm Row Drive / Oak Creek Drive from Riverside Drive to the End of County Maintenance of a 40 MPH speed limit.

Existing Traffic Devices

Palm Row Drive is a striped two-lane through highway with a 26-foot travelled way on a 46 to 50-foot roadbed. The roadway is striped with a no passing centerline and white edge line. The roadway has an uncontrolled school crossing and a speed advisory curve. Palm Row Drive is classified as a Light Collector on the County General Plan Mobility Element Network and has no posted speed limit.

Oak Creek Drive is a striped two-lane through highway with a 24 to 46-foot travelled way on a 26 to 50-foot roadbed. The roadway is striped with a no passing centerline and white edge line. The roadway has multiple speed advisory curves. Oak Creek Drive is a Light Collector on the County General Plan Mobility Element Network and has a posted speed limit of 40 MPH Radar Enforced.

Average Daily Traffic Volumes

12/18

09/07

Oak Creek Drive

200' S/o Eucalyptus Hills Dr

2,930

3,520

Speed Data

**85th
Percentile**

**10 MPH
Pace**

**% in
Pace**

Palm Row Dr

255' S/o Lakeside Av (2019)

45.0 MPH

36-45

73.0%

Oak Creek Dr

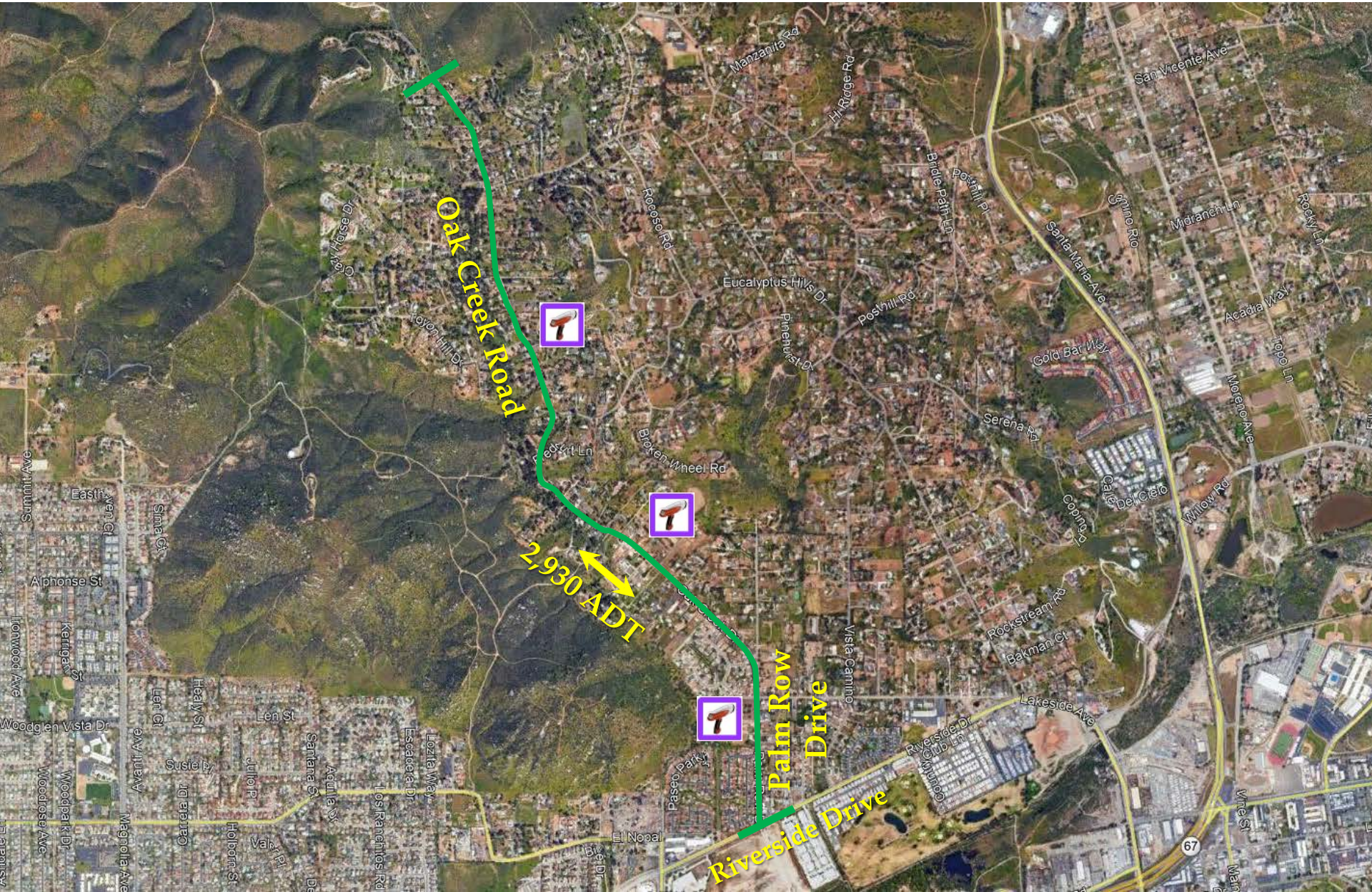
Palm Row Dr/Oak Creek Dr		2		Item 2-K
2,600' N/o Palm Row Dr	(2018)	45.1 MPH	35-44	63.0%
	(2012)	46.8 MPH	38-47	78.4%
@ Toyon Hill Dr	(2018)	44.7 MPH	35-44	69.0%
	(2012)	44.9 MPH	37-46	42.0%
Speed Zone	(2019)	44.9 MPH	35-44	68.0%

Collision Data

There have been 19 reported collisions along this segment of roadway, 9 of which involved injury, in a 3 year period (8-1-2016 to 7-21-2019). These collisions result in a segment accident rate of 2.64 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 MPH.

2-K. Radar Certification

Palm Row Dr/Oak Creek Rd from Riverside Dr to End (2.25 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Palm Row Dr / Oak Creek Dr	CERTIFICATION DATE	2/26/2020
FROM	Riverside Dr	TO	End
SEGMENT LENGTH	2.25 miles	AREA	Eucalyptus Hills

Prevailing Speeds: Posted Speed: **40 MPH**

Location	225' S/o Lakeside Ave	2,600' N/o Palm Row Dr	At Toyon Hill Dr	Speed Zone
Date of Survey	11/14/2019	12/03/2018	12/03/2018	12/03/2018
85 th Percentile	45.0	45.1 MPH	44.7 MPH	44.9MPH
10 MPH Pace	36-45	35-44	35-44	35-44
Percent in Pace	73.0%	63.0%	69.0%	68.0%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 7/31/2019)
Total Collisions	19
Statewide Average Collision Rate	1.8
Collisions per Million Vehicle Miles	2.64
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	9

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	2,930 vpd	Date Counted	12/11/2018
Number of Lanes	2	Road Striping	Center, Edge Lines
Mobility Element	Light Collector	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	26 - 50 feet	Travelled Lane Width	24 feet
Road Curvature	Curvilinear	Available Shoulders	2 to 14
Intersecting Roads	Minimal	Intersecting Driveways	Yes
Pedestrian Pathways	Partially	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **40 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



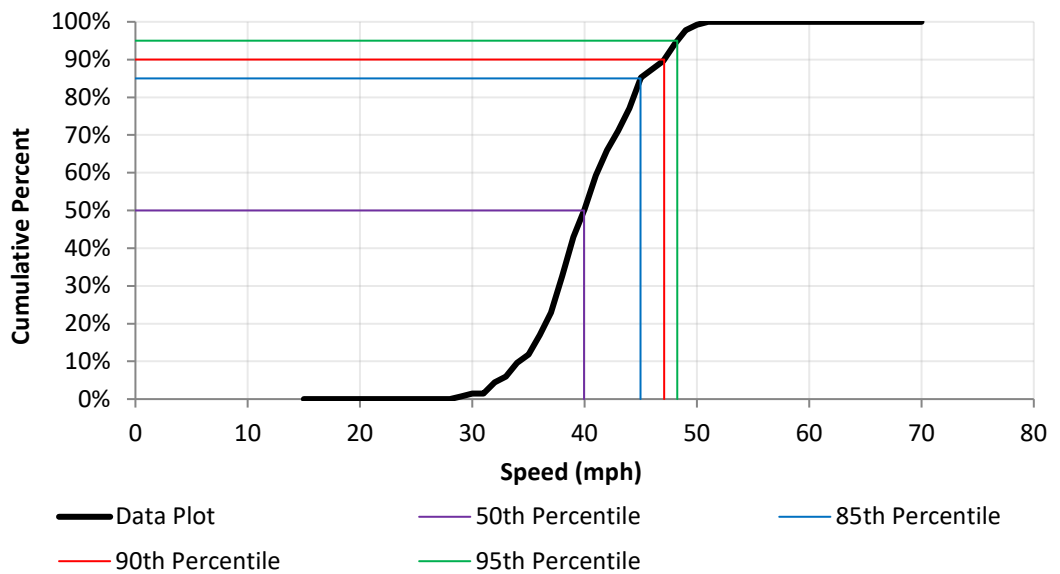
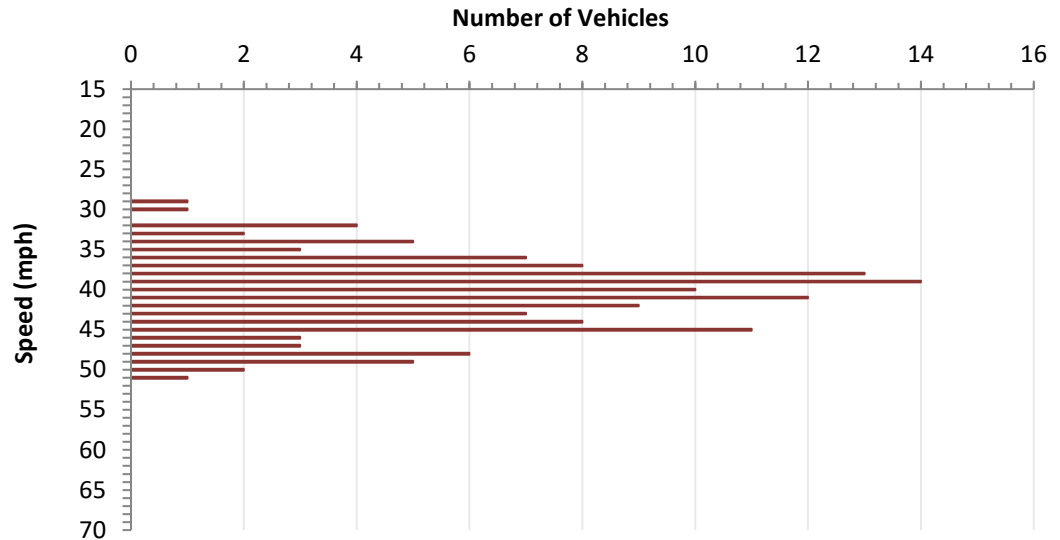
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Palm Row Dr	From:	Riverside Dr	To:	Oak Creek Dr
Position:	255' S/o Lakeside Av	Direction:	NB/SB		

Date:	11/14/2019	Weather:	Clear	Project Number:	N/A
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	County
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29	1	0.7%
30	1	1.5%
31		
32	4	4.4%
33	2	5.9%
34	5	9.6%
35	3	11.9%
36	7	17.0%
37	8	23.0%
38	13	32.6%
39	14	43.0%
40	10	50.4%
41	12	59.3%
42	9	65.9%
43	7	71.1%
44	8	77.0%
45	11	85.2%
46	3	87.4%
47	3	89.6%
48	6	94.1%
49	5	97.8%
50	2	99.3%
51	1	100.0%
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	135	



DATA ANALYSIS

Average Speed	40.7	Range	29 - 51
50th Percentile	40.0	10 mph Pace	36 - 45
85th Percentile	45.0	Number in Pace	99
90th Percentile	47.1	Percent in Pace	73%
95th Percentile	48.3		



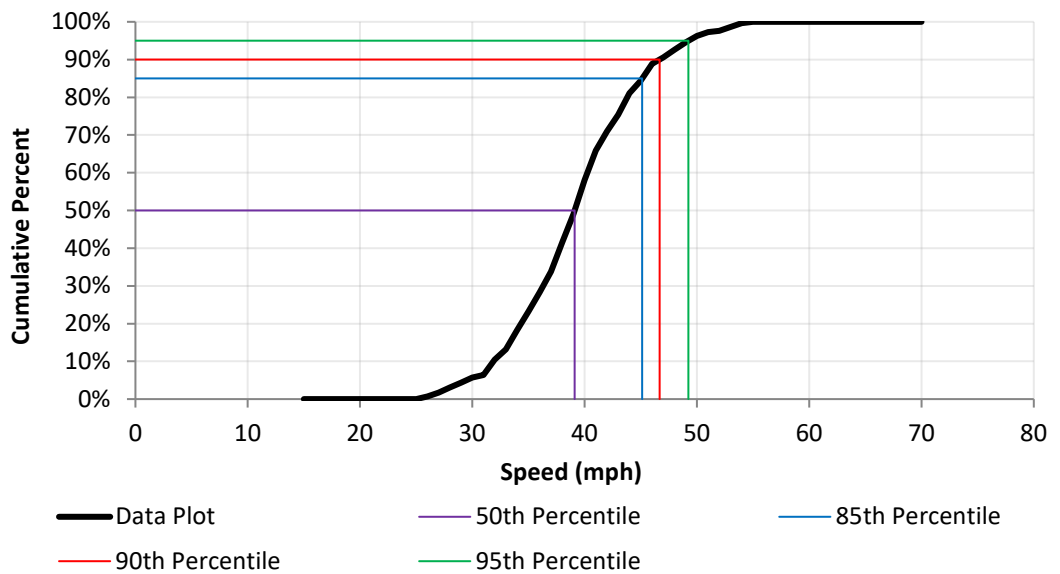
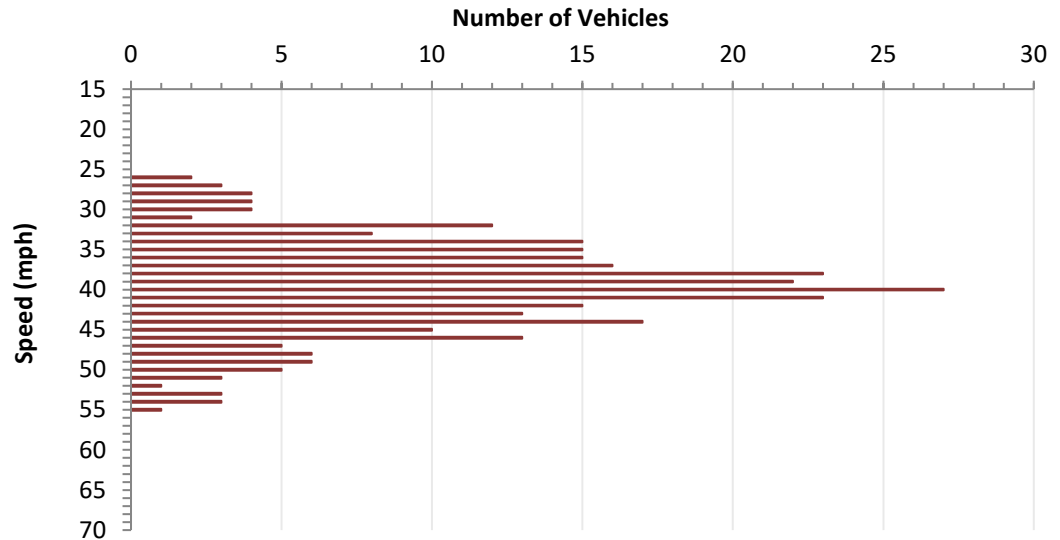
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Oak Creek Dr	From:	Manzanita Rd	To:	Palm Row Dr
Position:	2,600' N/o Palm Row Dr	Direction:	NB/SB		

Date:	12/3/2018	Weather:	Clear	Project Number:	18-44-57-012
Time Start:	11:20 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:20 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	2	0.7%
27	3	1.7%
28	4	3.0%
29	4	4.4%
30	4	5.7%
31	2	6.4%
32	12	10.5%
33	8	13.2%
34	15	18.2%
35	15	23.3%
36	15	28.4%
37	16	33.8%
38	23	41.6%
39	22	49.0%
40	27	58.1%
41	23	65.9%
42	15	70.9%
43	13	75.3%
44	17	81.1%
45	10	84.5%
46	13	88.9%
47	5	90.5%
48	6	92.6%
49	6	94.6%
50	5	96.3%
51	3	97.3%
52	1	97.6%
53	3	98.6%
54	3	99.7%
55	1	100.0%
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	296	



DATA ANALYSIS

Average Speed	39.7	Range	26 - 55
50th Percentile	39.1	10 mph Pace	35 - 44
85th Percentile	45.1	Number in Pace	186
90th Percentile	46.7	Percent in Pace	63%
95th Percentile	49.2		



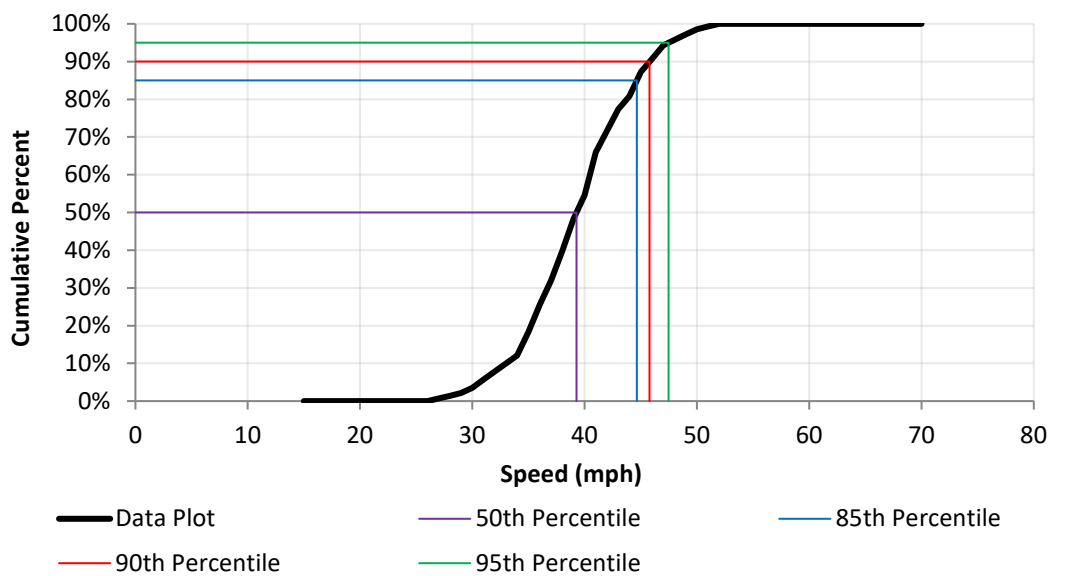
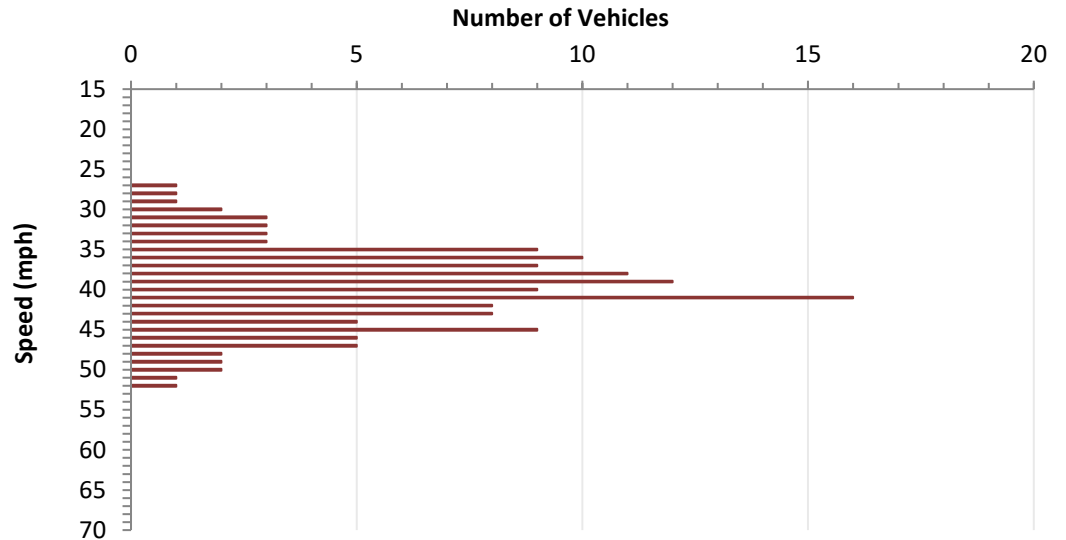
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Oak Creek Dr	From:	Manzanita Rd	To:	Palm Row Dr
Position:	@ Toyon Hill	Direction:	NB/SB		

Date:	12/3/2018	Weather:	Clear	Project Number:	18-4457-010
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	1	0.7%
28	1	1.4%
29	1	2.1%
30	2	3.5%
31	3	5.7%
32	3	7.8%
33	3	9.9%
34	3	12.1%
35	9	18.4%
36	10	25.5%
37	9	31.9%
38	11	39.7%
39	12	48.2%
40	9	54.6%
41	16	66.0%
42	8	71.6%
43	8	77.3%
44	5	80.9%
45	9	87.2%
46	5	90.8%
47	5	94.3%
48	2	95.7%
49	2	97.2%
50	2	98.6%
51	1	99.3%
52	1	100.0%
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	141	



DATA ANALYSIS

Average Speed	39.8	Range	27 - 52
50th Percentile	39.3	10 mph Pace	35 - 44
85th Percentile	44.7	Number in Pace	97
90th Percentile	45.8	Percent in Pace	69%
95th Percentile	47.5		

VOLUME

Oak Creek Dr 200' S/O Eucalyptus Hills Dr

Day: Tuesday
Date: 12/11/2018City: Lakeside
Project #: CA18_4458_006

DAILY TOTALS					NB	SB						EB	WB						Total
					1,442	1,487						0	0						2,929
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00	1	0			1		12:00	19	18			37							37
00:15	2	1			3		12:15	24	19			43							43
00:30	3	1			4		12:30	26	19			45							45
00:45	1	7	2	4	3	11	12:45	16	85	22	78	38	163						163
01:00	0	0			0		13:00	20	20			40							40
01:15	2	2			4		13:15	22	16			38							38
01:30	1	1			2		13:30	24	24			48							48
01:45	3	6	0	3	3	9	13:45	25	91	22	82	47	173						173
02:00	2	2			4		14:00	25	23			48							48
02:15	0	1			1		14:15	27	20			47							47
02:30	1	0			1		14:30	38	28			66							66
02:45	0	3	0	3	0	6	14:45	28	118	18	89	46	207						207
03:00	1	1			2		15:00	38	24			62							62
03:15	1	2			3		15:15	41	20			61							61
03:30	0	2			2		15:30	39	22			61							61
03:45	1	3	0	5	1	8	15:45	40	158	16	82	56	240						240
04:00	1	0			1		16:00	33	29			62							62
04:15	1	7			8		16:15	54	25			79							79
04:30	1	13			14		16:30	35	17			52							52
04:45	1	4	13	33	14	37	16:45	33	155	28	99	61	254						254
05:00	0	11			11		17:00	36	19			55							55
05:15	4	11			15		17:15	45	17			62							62
05:30	4	23			27		17:30	34	26			60							60
05:45	1	9	18	63	19	72	17:45	27	142	25	87	52	229						229
06:00	3	20			23		18:00	23	19			42							42
06:15	3	22			25		18:15	28	21			49							49
06:30	4	30			34		18:30	18	16			34							34
06:45	7	17	27	99	34	116	18:45	27	96	14	70	41	166						166
07:00	7	49			56		19:00	22	6			28							28
07:15	11	44			55		19:15	22	7			29							29
07:30	13	40			53		19:30	21	13			34							34
07:45	19	50	30	163	49	213	19:45	19	84	8	34	27	118						118
08:00	16	37			53		20:00	15	10			25							25
08:15	14	32			46		20:15	21	10			31							31
08:30	20	27			47		20:30	20	11			31							31
08:45	21	71	43	139	64	210	20:45	14	70	7	38	21	108						108
09:00	11	31			42		21:00	13	6			19							19
09:15	12	25			37		21:15	17	7			24							24
09:30	12	25			37		21:30	13	5			18							18
09:45	9	44	24	105	33	149	21:45	11	54	4	22	15	76						76
10:00	15	28			43		22:00	8	4			12							12
10:15	13	20			33		22:15	4	3			7							7
10:30	14	25			39		22:30	2	2			4							4
10:45	16	58	16	89	32	147	22:45	6	20	4	13	10	33						33
11:00	19	22			41		23:00	4	0			4							4
11:15	19	17			36		23:15	3	4			7							7
11:30	21	21			42		23:30	5	0			5							5
11:45	20	79	22	82	42	161	23:45	6	18	1	5	7	23						23
TOTALS	351	788			1139		TOTALS	1091	699			1790							1790
SPLIT %	30.8%	69.2%			38.9%		SPLIT %	60.9%	39.1%			61.1%							61.1%

DAILY TOTALS					NB	SB						EB	WB						Total
					1,442	1,487						0	0						2,929
AM Peak Hour	11:45	07:00			07:00		PM Peak Hour	15:30	16:00			15:30							15:30
AM Pk Volume	89	163			213		PM Pk Volume	166	99			258							258
Pk Hr Factor	0.856	0.832			0.951		Pk Hr Factor	0.769	0.853			0.816							0.816
7 - 9 Volume	121	302	0	0	423		4 - 6 Volume	297	186	0	0	483							483
7 - 9 Peak Hour	08:00	07:00			07:00		4 - 6 Peak Hour	16:15	16:00			16:00							16:00
7 - 9 Pk Volume	71	163	0	0	213		4 - 6 Pk Volume	158	99	0	0	254							254
Pk Hr Factor	0.845	0.832	0.000	0.000	0.951		Pk Hr Factor	0.731	0.853	0.000	0.000	0.804							0.804

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-L**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Valle Vista Road from Lakeside Avenue to Vista Camino (a distance of 0.78 miles), Eucalyptus Hills (Thos. Bros. 1231-J2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit Increase

PROBLEM AS STATED BY REQUESTER:

Valle Vista Road from Lakeside Avenue to Vista Camino is posted 40 MPH. Preliminary review of prevailing speeds and roadway conditions could support an increase to a 45 MPH speed limit with radar certification.

Existing Traffic Devices

Valle Vista Road is a striped two-lane through highway with a 24-foot travelled way on a 28-foot road bed. The roadway has a no passing centerline and white edgeline. The roadway has a speed advisory hill warning. Valle Vista Road is classified as a Light Collector on the County General Plan Mobility Element Network and is posted 40 MPH/Radar Enforced.

<u>Average Daily Traffic Volumes</u>	<u>05/19</u>	<u>10/13</u>	<u>10/06</u>
Valle Vista Road			
100' S/o Copping Place	4,244	3,260	3,720

<u>Speed Data</u>	<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Valle Vista Road			
100' S/o Copping Place (2019)	48.1 MPH	38-47	66.0%
(2013)	46.7 MPH	37-46	62.0%

Collision Data

There have been 8 reported collisions along this segment of roadway, 4 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 2.21 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

2-L. Radar Certification

Valle Vista Rd from Lakeside Av to Vista Camino (0.78 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Valle Vista Road	CERTIFICATION DATE	03/11/2020
FROM	Lakeside Avenue	TO	Vista Camino
SEGMENT LENGTH	0.78 miles	AREA	Eucalyptus Hills

Prevailing Speeds: Posted Speed: **40 MPH**

Location	100' S/o Coping Place
Date of Survey	05/21/2019
85th Percentile	48.1
10 MPH Pace	38 – 47
Percent in Pace	66%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 7/31/2019)
Total Collisions	8
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	2.21
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	4

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	4,244 vpd	Date Counted	05/21/2019
Number of Lanes	2	Road Striping	Center, Edge Lines
Mobility Element	Light Collector	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	26 feet	Travelled Lane Width	24 feet
Road Curvature	Curvilinear	Available Shoulders	1 foot
Intersecting Roads	Several	Intersecting Driveways	Yes
Pedestrian Pathways	None	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



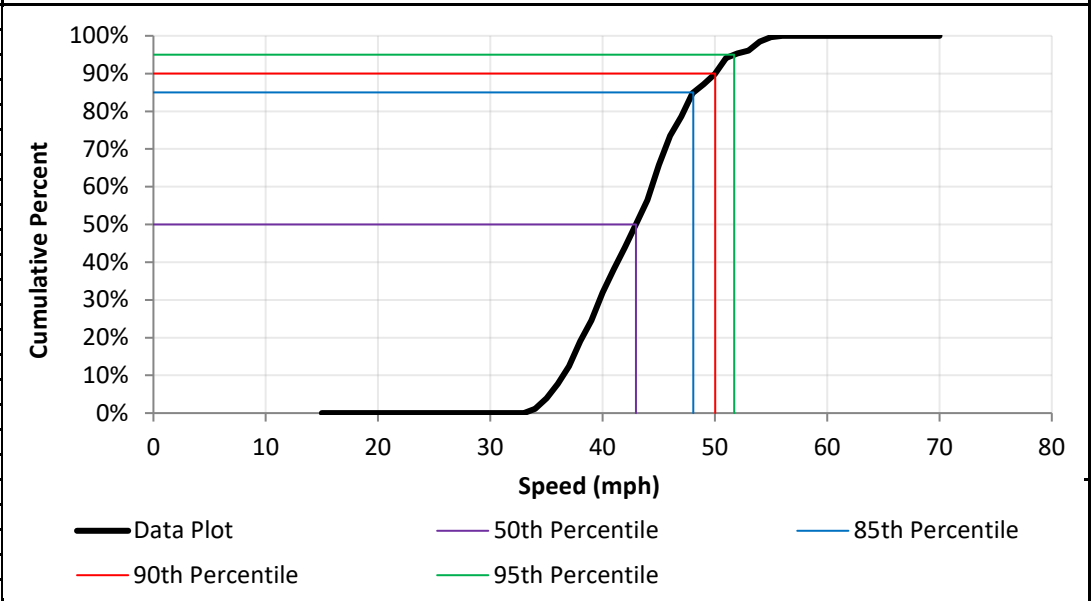
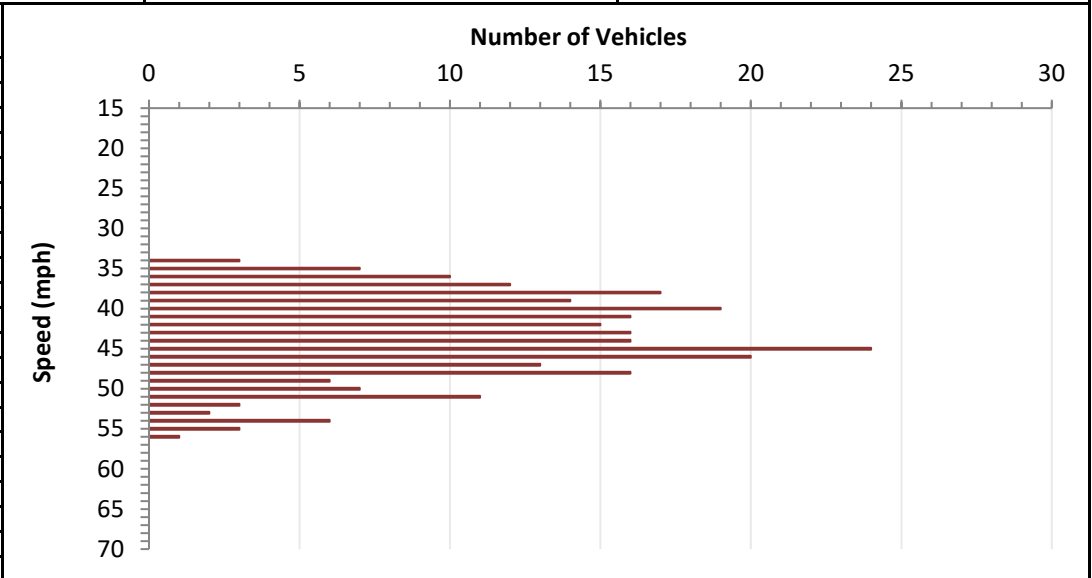
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Valle Vista Rd	From:	Lakeside Av	To:	Vista Camino
Position:	100' S/O Coping PI	Direction:	NB/SB		

Date:	5/21/2019	Weather:	Clear	Project Number:	19-4219-033
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34	3	1.2%
35	7	3.9%
36	10	7.8%
37	12	12.5%
38	17	19.1%
39	14	24.5%
40	19	31.9%
41	16	38.1%
42	15	44.0%
43	16	50.2%
44	16	56.4%
45	24	65.8%
46	20	73.5%
47	13	78.6%
48	16	84.8%
49	6	87.2%
50	7	89.9%
51	11	94.2%
52	3	95.3%
53	2	96.1%
54	6	98.4%
55	3	99.6%
56	1	100.0%
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	257	



DATA ANALYSIS

Average Speed	43.5	Range	34 - 56
50th Percentile	43.0	10 mph Pace	38 - 47
85th Percentile	48.1	Number in Pace	170
90th Percentile	50.0	Percent in Pace	66%
95th Percentile	51.7		

VOLUME

Valle Vista Rd 100' S/O Coping PI

Day: Tuesday
Date: 5/21/2019City: Lakeside
Project #: CA19_4218_020

DAILY TOTALS					NB	SB						EB	WB						Total
					1,931	2,313						0	0						4,244
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	3	1			4		12:00	17	29			46							
00:15	1	2			3		12:15	25	18			43							
00:30	2	3			5		12:30	21	26			47							
00:45	1	7	1	7	2	14	12:45	18	81	27	100	45	181						
01:00	0	1			1		13:00	31	26			57							
01:15	1	0			1		13:15	26	20			46							
01:30	2	0			2		13:30	27	17			44							
01:45	0	3	1	2	1	5	13:45	35	119	29	92	64	211						
02:00	0	2			2		14:00	47	32			79							
02:15	0	0			0		14:15	50	29			79							
02:30	0	0			0		14:30	53	31			84							
02:45	1	1	2	4	3	5	14:45	39	189	75	167	114	356						
03:00	1	4			5		15:00	41	44			85							
03:15	1	0			1		15:15	57	39			96							
03:30	0	2			2		15:30	49	53			102							
03:45	0	2	2	8	2	10	15:45	51	198	64	200	115	398						
04:00	2	4			6		16:00	33	76			109							
04:15	0	4			4		16:15	40	91			131							
04:30	0	7			7		16:30	34	88			122							
04:45	1	3	6	21	7	24	16:45	34	141	88	343	122	484						
05:00	1	10			11		17:00	48	108			156							
05:15	3	9			12		17:15	24	106			130							
05:30	2	11			13		17:30	38	88			126							
05:45	7	13	20	50	27	63	17:45	36	146	79	381	115	527						
06:00	7	15			22		18:00	36	30			66							
06:15	8	18			26		18:15	23	19			42							
06:30	20	18			38		18:30	27	24			51							
06:45	26	61	29	80	55	141	18:45	31	117	15	88	46	205						
07:00	43	31			74		19:00	22	24			46							
07:15	32	37			69		19:15	26	16			42							
07:30	34	37			71		19:30	16	13			29							
07:45	40	149	32	137	72	286	19:45	20	84	10	63	30	147						
08:00	29	41			70		20:00	26	11			37							
08:15	33	42			75		20:15	20	14			34							
08:30	46	20			66		20:30	21	12			33							
08:45	62	170	38	141	100	311	20:45	20	87	9	46	29	133						
09:00	37	61			98		21:00	19	6			25							
09:15	13	50			63		21:15	18	8			26							
09:30	14	25			39		21:30	18	5			23							
09:45	14	78	23	159	37	237	21:45	5	60	4	23	9	83						
10:00	25	21			46		22:00	10	8			18							
10:15	20	26			46		22:15	4	6			10							
10:30	20	21			41		22:30	3	2			5							
10:45	19	84	26	94	45	178	22:45	4	21	0	16	4	37						
11:00	22	23			45		23:00	8	3			11							
11:15	26	18			44		23:15	5	5			10							
11:30	15	18			33		23:30	6	4			10							
11:45	30	93	18	77	48	170	23:45	5	24	2	14	7	38						
TOTALS	664	780			1444		TOTALS	1267	1533			2800							
SPLIT %	46.0%	54.0%			34.0%		SPLIT %	45.3%	54.8%			66.0%							

DAILY TOTALS					NB	SB						EB	WB						Total
					1,931	2,313						0	0						4,244
AM Peak Hour	08:15	08:45			08:15		PM Peak Hour	15:00	16:30			16:45							
AM Pk Volume	178	174			339		PM Pk Volume	198	390			534							
Pk Hr Factor	0.718	0.713			0.848		Pk Hr Factor	0.868	0.903			0.856							
7 - 9 Volume	319	278	0	0	597		4 - 6 Volume	287	724	0	0	1011							
7 - 9 Peak Hour	08:00	07:30			08:00		4 - 6 Peak Hour	16:15	16:30			16:45							
7 - 9 Pk Volume	170	152	0	0	311		4 - 6 Pk Volume	156	390	0	0	534							
Pk Hr Factor	0.685	0.905	0.000	0.000	0.778		Pk Hr Factor	0.813	0.903	0.000	0.000	0.856							

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-M**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Valle Vista Road from Vista Camino to Rocosco Road
(a distance of 1.43 miles), Eucalyptus Hills (Thos. Bros.
1231-J1)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Valle Vista Road from Vista Camino to Rocosco Road is posted 35 MPH. Preliminary review of prevailing speeds and roadway conditions could support recertification of the existing 35 MPH speed limit.

Existing Traffic Devices

Valle Vista Road is a striped two-lane through highway with a 24-foot travelled way on a 28-foot road bed. The roadway has a no passing centerline and white edgeline. The roadway has multiple uncontrolled school crosswalks and speed advisory curves and is stop controlled at Eucalyptus Hills Drive in the southbound direction. Valle Vista Road is classified as a Light Collector on the County General Plan Mobility Element Network and is posted 35 MPH/Radar Enforced.

Average Daily Traffic Volumes

	<u>05/19</u>	<u>10/13</u>
Valle Vista Road		
260' N/o Serena Road	5,432	3,740

Speed Data

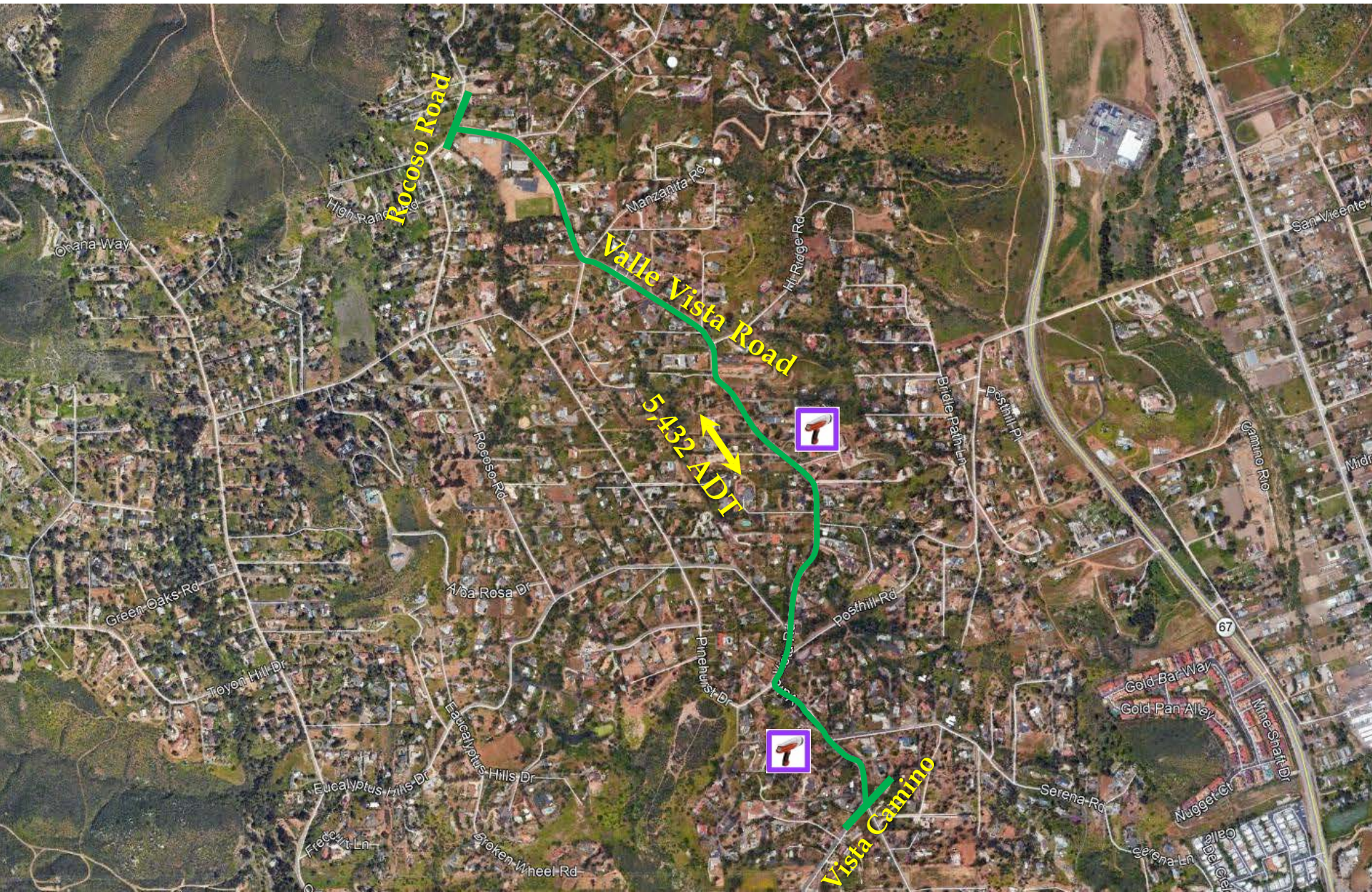
		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Valle Vista Road				
1260' N/o Eucalyptus Hills Dr	(2019)	37.5 MPH	30-39	88.0%
	(2011)	36.0 MPH	27-36	74.1%
@ Serena Rd	(2019)	34.0 MPH	26-35	94.0%
Speed Zone	(2019)	35.8 MPH	28-37	91.0%

Collision Data

There have been 5 reported collisions along this segment of roadway, 4 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 0.59 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

2-M. Radar Certification

Valle Vista Rd from Vista Camino to Roco Rd (1.43 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Valle Vista Rd	CERTIFICATION DATE	02/26/2020
FROM	Vista Camino	TO	End of County Maintained Rd (Rocoso Rd)
SEGMENT LENGTH	1.43 miles	AREA	Eucalyptus Hills

Prevailing Speeds: Posted Speed: **35 MPH**

Location	1,260' N/o Eucalyptus Hills Dr	@ Serena Rd	Speed Zone
Date of Survey	11/27/2018	11/27/2018	11/27/2018
85 th Percentile	37.5 MPH	34 MPH	35.8 MPH
10 MPH Pace	30-39	26-35	28-37
Percent in Pace	88%	94%	91%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	5
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	0.59
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	4

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	5,432 vpd	Date Counted	12/18/2018
Number of Lanes	2	Road Striping	Center, Edge Lines
Mobility Element	Part Collector/None	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	12 ft lane
Roadbed Width	26 ft	Available Shoulders	1 ft shoulder
Road Curvature	Curvilinear	Intersecting Driveways	Multiple
Intersecting Roads	Multiple	Bike Lane/Route	None
Pedestrian Pathways	None		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



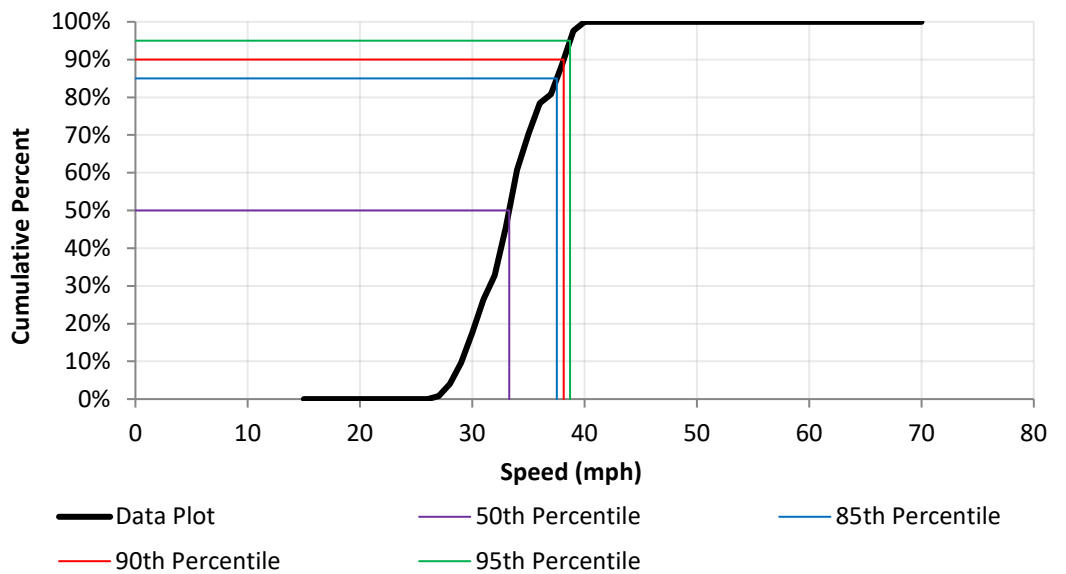
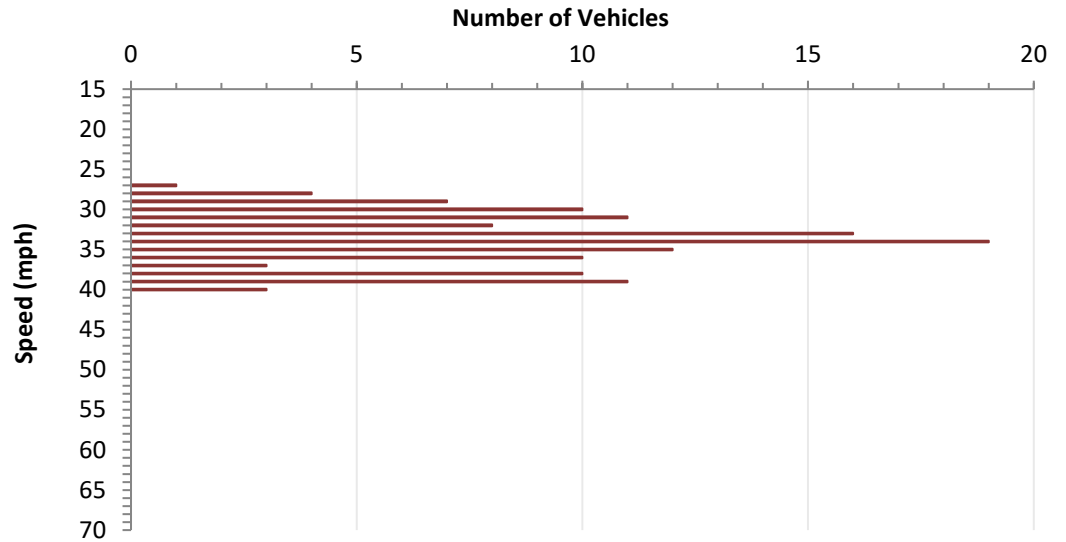
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Valle Vista Rd	From:	Vista Camino	To:	End (Rocoso Rd - pvt)
Position:	1,260' N/o Eucalyptus Hills Dr	Direction:	NB/SB		

Date:	11/27/2018	Weather:	Clear	Project Number:	18-4457-001
Time Start:	1:15 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:15 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	1	0.8%
28	4	4.0%
29	7	9.6%
30	10	17.6%
31	11	26.4%
32	8	32.8%
33	16	45.6%
34	19	60.8%
35	12	70.4%
36	10	78.4%
37	3	80.8%
38	10	88.8%
39	11	97.6%
40	3	100.0%
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	125	



DATA ANALYSIS

Average Speed	33.9	Range	27 - 40
50th Percentile	33.3	10 mph Pace	30 - 39
85th Percentile	37.5	Number in Pace	110
90th Percentile	38.1	Percent in Pace	88%
95th Percentile	38.7		



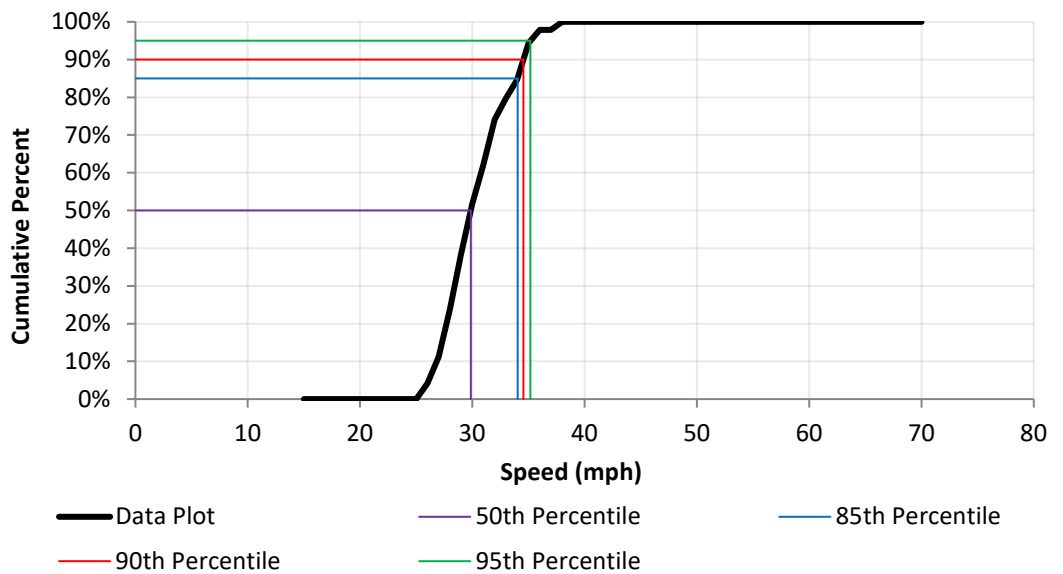
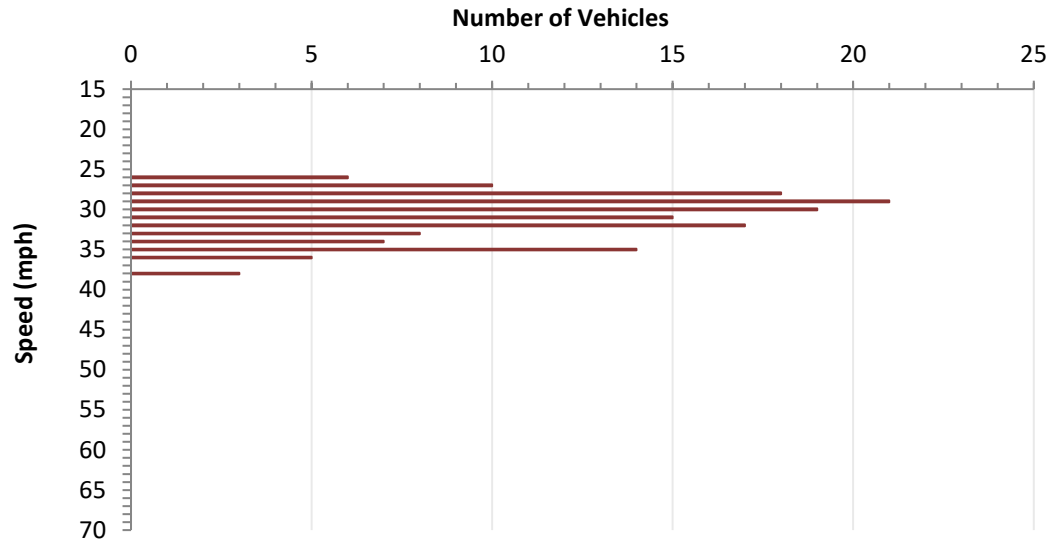
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Valle Vista Rd	From:	Vista Camino	To:	End of County Maintenance (P
Position:	@ Serena Rd	Direction:	NB/SB		

Date:	11/27/2018	Weather:	Clear	Project Number:	18-4457-002
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	6	4.2%
27	10	11.2%
28	18	23.8%
29	21	38.5%
30	19	51.7%
31	15	62.2%
32	17	74.1%
33	8	79.7%
34	7	84.6%
35	14	94.4%
36	5	97.9%
37		
38	3	100.0%
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	143	



DATA ANALYSIS

Average Speed	30.8	Range	26 - 38
50th Percentile	29.9	10 mph Pace	26 - 35
85th Percentile	34.0	Number in Pace	135
90th Percentile	34.6	Percent in Pace	94%
95th Percentile	35.2		

VOLUME

Valle Vista Rd 260' N/O Serena Rd

Day: Tuesday
Date: 12/18/2018City: Lakeside
Project #: CA18_4458_001

DAILY TOTALS					NB	SB	EB		WB		Total
					3,162	2,270	0		0		5,432
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	0	6			6	12:00	17	21			38
00:15	0	3			3	12:15	23	21			44
00:30	1	2			3	12:30	17	32			49
00:45	0	1	2	13	2	12:45	19	76	23	97	42
01:00	0	1			1	13:00	17	27			44
01:15	0	1			1	13:15	21	28			49
01:30	3	2			5	13:30	27	23			50
01:45	0	3	0	4	0	13:45	33	98	28	106	61
02:00	0	1			1	14:00	29	41			70
02:15	0	0			0	14:15	27	55			82
02:30	0	1			1	14:30	28	53			81
02:45	1	1	1	3	2	14:45	134	218	48	197	182
03:00	2	0			2	15:00	90	36			126
03:15	2	1			3	15:15	97	45			142
03:30	1	0			1	15:30	84	61			145
03:45	2	7	0	1	2	15:45	112	383	37	179	149
04:00	2	1			3	16:00	126	43			169
04:15	1	2			3	16:15	133	51			184
04:30	6	4			10	16:30	148	50			198
04:45	2	11	4	11	6	16:45	159	566	39	183	198
05:00	11	2			13	17:00	157	39			196
05:15	12	4			16	17:15	177	26			203
05:30	11	4			15	17:30	129	36			165
05:45	16	50	11	21	27	17:45	145	608	18	119	163
06:00	15	12			27	18:00	121	38			159
06:15	27	14			41	18:15	86	33			119
06:30	15	40			55	18:30	24	18			42
06:45	23	80	58	124	81	18:45	20	251	32	121	52
07:00	33	88			121	19:00	19	21			40
07:15	33	95			128	19:15	14	23			37
07:30	38	89			127	19:30	6	22			28
07:45	40	144	79	351	119	19:45	7	46	21	87	28
08:00	42	61			103	20:00	11	32			43
08:15	43	42			85	20:15	11	13			24
08:30	54	44			98	20:30	10	15			25
08:45	38	177	75	222	113	20:45	4	36	14	74	18
09:00	65	44			109	21:00	5	15			20
09:15	58	18			76	21:15	5	11			16
09:30	22	19			41	21:30	5	11			16
09:45	26	171	18	99	44	21:45	2	17	10	47	12
10:00	23	20			43	22:00	6	13			19
10:15	22	20			42	22:15	9	4			13
10:30	23	14			37	22:30	5	11			16
10:45	27	95	26	80	53	22:45	1	21	3	31	4
11:00	22	10			32	23:00	4	4			8
11:15	20	21			41	23:15	2	4			6
11:30	21	26			47	23:30	3	6			9
11:45	30	93	28	85	58	23:45	0	9	1	15	1
TOTALS	833	1014			1847	TOTALS	232	1256			3585
SPLIT %	45.1%	54.9%			34.0%	SPLIT %	65.0%	35.0%			66.0%

DAILY TOTALS					NB	SB	EB	WB	Total
					3,162	2,270	0	0	5,432
AM Peak Hour	08:30	07:00		07:00	PM Peak Hour	16:30	14:00		16:30
AM Pk Volume	215	351		495	PM Pk Volume	641	197		795
Pk Hr Factor	0.827	0.92		0.967	Pk Hr Factor	0.905	0.895		0.979
7 - 9 Volume	21	573	0	894	4 - 6 Volume	1174	302	0	1476
7 - 9 Peak Hour	07:45	07:00		07:00	4 - 6 Peak Hour	16:30	16:00		1:30
7 - 9 Pk Volume	17	351	0	495	4 - 6 Pk Volume	641	183	0	795
Pk Hr Factor	0.829	0.924	0.000	0.967	Pk Hr Factor	0.9	0.897	0.000	0.979

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-N**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Jackson Hill Dr from Pepper Dr to the End (a distance of 0.60 miles), LAKESIDE (Thos. Bros. 1252-B1)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit Reduction

PROBLEM AS STATED BY REQUESTER:

Jackson Hill Dr from Pepper Dr to the End is posted 40 MPH. Preliminary review of prevailing speeds and roadway conditions could support reduction of a 35 MPH speed limit.

Existing Traffic Devices

Jackson Hill Drive is a striped two-lane roadway with a 24 to 26-foot travelled way on a 26 to 36-foot roadbed. The roadway is striped with a no passin centerline and white edgeline. The roadway has intersection and speed advisory curve warnings. Jackson Hill Drive is unclassified on the County General Plan Mobility Element Network and is posted 40 MPH/Radar Enforced.

<u>Average Daily Traffic Volumes</u>	<u>06/16</u>	<u>10/12</u>
Jackson Hill Dr		
200' N/o Jackson Hill Ct	1,974	2,500*

*Estimate

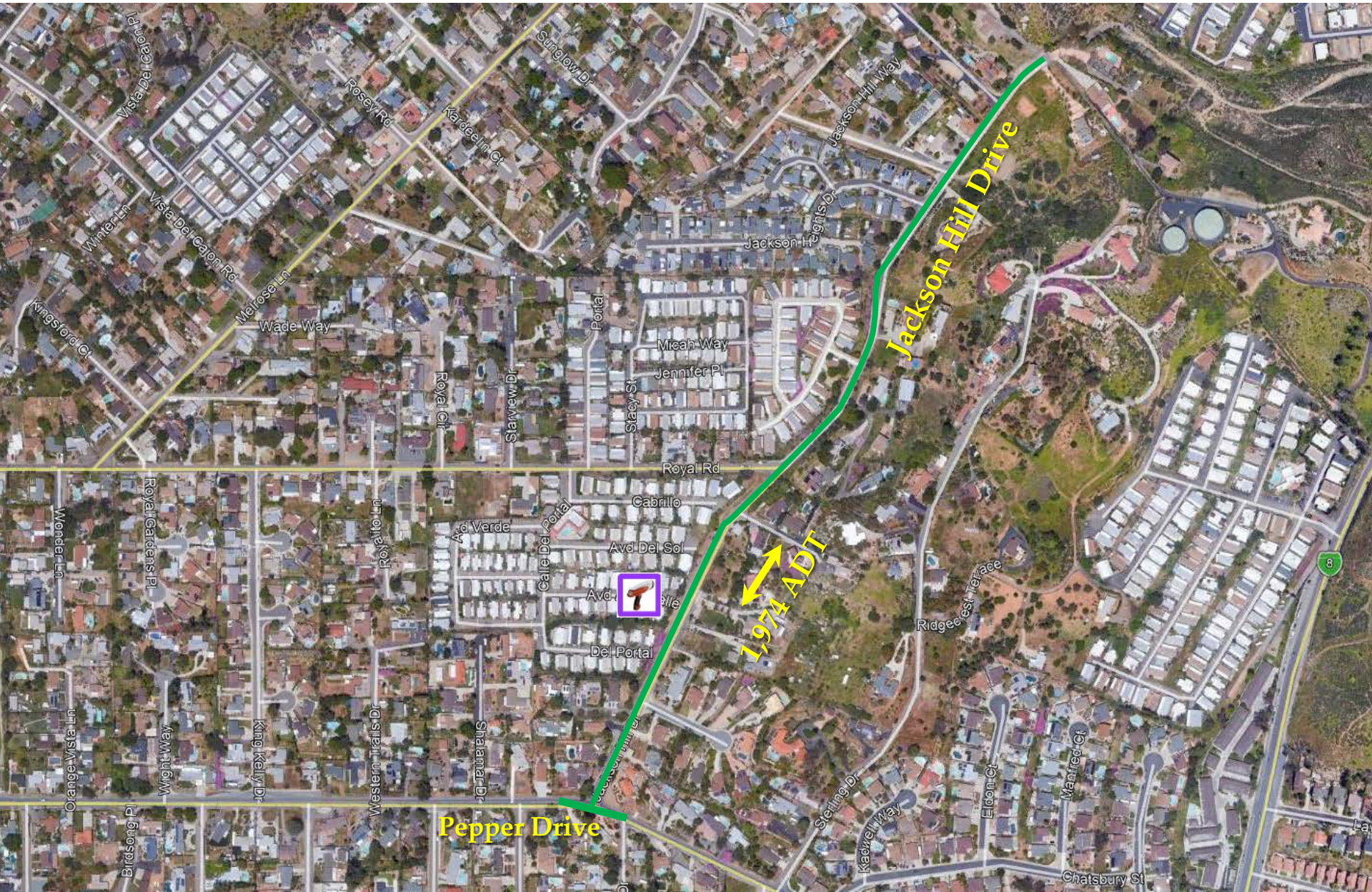
<u>Speed Data</u>	<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Jackson Hill Dr			
200' N/o Jackson Hill Ct (2019)	42.0 MPH	33-42	76.0%
(2012)	43.5 MPH	32-41	63.7%

Collision Data

There have been 5 reported collisions along this segment of roadway, 2 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 3.87 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

2-N. Radar Certification

Jackson Hill Dr from Pepper Dr to End (0.60 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Jackson Hill Dr	CERTIFICATION DATE	03/11/2020
FROM	Pepper Dr	TO	End
SEGMENT LENGTH	0.60 miles	AREA	Lakeside

Prevailing Speed: Posted Speed: **40 MPH**

Location	200' N/o Jackson Hill Ct
Date of Survey	10/11/2019
85 th Percentile	42.0 MPH
10 MPH Pace	33-42
Percent in Pace	76%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	5
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	3.87
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	2

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	1,974 vpd	Date Counted	9/26/19
Number of Lanes	2	Road Striping	Center and Edge Lines
Mobility Element	No	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	22 - 36 ft	Travelled Lane Width	22 - 24 ft
Road Curvature	Curvilinear	Available Shoulders	0 - 10 ft
Intersecting Roads	Minimal	Intersecting Driveways	Some
Pedestrian Pathways	None	Bike Lane/Route	No

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



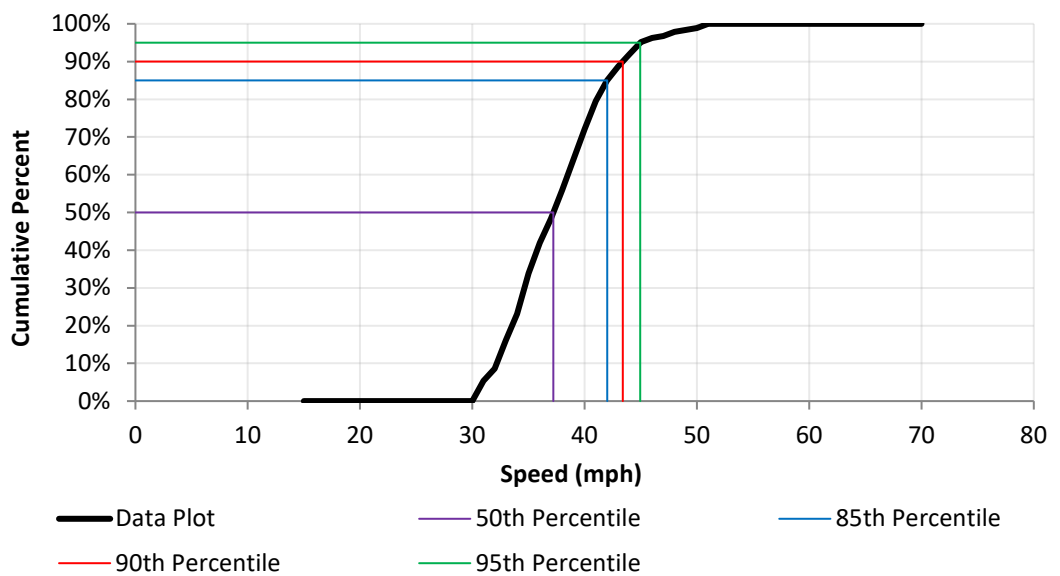
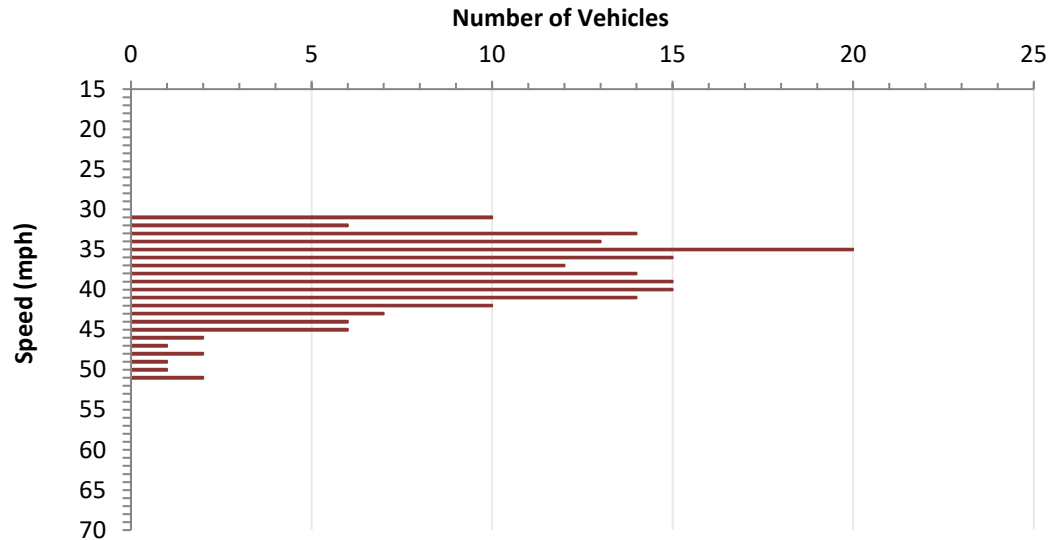
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jackson Hill Dr	From:	Pepper Dr	To:	End
Position:	200' NO Jackson Hill Ct	Direction:	NB/SB		

Date:	10/1/2019	Weather:	Clear	Project Number:	19-4363-002
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31	10	5.4%
32	6	8.6%
33	14	16.1%
34	13	23.1%
35	20	33.9%
36	15	41.9%
37	12	48.4%
38	14	55.9%
39	15	64.0%
40	15	72.0%
41	14	79.6%
42	10	84.9%
43	7	88.7%
44	6	91.9%
45	6	95.2%
46	2	96.2%
47	1	96.8%
48	2	97.8%
49	1	98.4%
50	1	98.9%
51	2	100.0%
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	186	



DATA ANALYSIS

Average Speed	38.0	Range	31 - 51
50th Percentile	37.2	10 mph Pace	33 - 42
85th Percentile	42.0	Number in Pace	142
90th Percentile	43.4	Percent in Pace	76%
95th Percentile	45.0		

DAILY TOTALS			NB	SB	EB			WB	Total		
			1,031	943				0			0
AM Peak Hour	11:15	06:45		07:30	PM Peak Hour	15:15	16:45			16:45	
AM Pk Volume	66	102		153	PM Pk Volume	113	80			172	
Pk Hr Factor	0.868	0.773		0.832	Pk Hr Factor	0.831	0.769			0.782	
7 - 9 Volume	100	176	0	0	276	4 - 6 Volume	188	122	0	0	310
7 - 9 Peak Hour	07:30	07:00		07:30	4 - 6 Peak Hour	16:00	16:45			16:45	
7 - 9 Pk Volume	59	102	0	0	153	4 - 6 Pk Volume	100	80	0	0	172
Pk Hr Factor	0.776	0.773	0.000	0.000	0.832	Pk Hr Factor	0.862	0.769	0.000	0.000	0.782

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019

Item 2-O

SUPERVISORIAL DISTRICT: 2

SUBJECT: Speed Limit / Radar Certification

LOCATION: Willow Glen Drive from State Route 54 (Jamacha Road) to Hillsdale Road (a distance of 2.0 miles), RANCHO SAN DIEGO (Thos. Bros. 1291-C2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit

PROBLEM AS STATED BY REQUESTER:

Willow Glen Drive from State Route 54 (Jamacha Road) to Hillsdale Road is posted 45 MPH. Preliminary review of prevailing speeds and roadway conditions could support radar certification of a 45 MPH speed limit.

Existing Traffic Devices

Willow Glen Drive is predominantly a striped two-lane Through Highway that varies from 40 feet to 87 feet in width. From Jamacha Road to Steele Canyon Road there are two lanes for each direction of travel. There is a short section east of Steele Canyon Road with a two-way left turn lane separating the two westbound lanes and one eastbound lane. There are bike lanes along both sides of the roadway. The road is posted 45 MPH/Radar Certified. The road is classified as a Major Road on the County General Plan Mobility Element Network.

<u>Average Daily Traffic Volumes</u>	<u>05/19</u>	<u>03/09</u>
Willow Glen Drive		
W/o Steele Canyon Rd	21,190	16,410
E/o Steele Canyon Rd	12,563	

<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Willow Glen Dr				
1,000' E/o Muirfield Dr	(2019)	51.2 MPH	42-51	64.0%
2,560 E/o Steele Cyn Rd	(2019)	52.2 MPH	43-52	65.0%
	(2008)	52.8 MPH	44-53	76.4%
500' W/o Hillsdale Rd	(2019)	48.0 MPH	38-47	65.0%

Speed Zone	(2019)	50.5 MPH	41-50	64.7%
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Collision Data

There have been 51 reported collisions along this segment of roadway, 27 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 1.38 collisions per million vehicle miles. The statewide average is 1.19 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed between 45 and 55 mph.

2-O. Radar Certification

Willow Glen Dr from State Route 54 to Hillsdale Rd (2.0 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Willow Glen Dr	CERTIFICATION DATE	02/26/2020
FROM	Jamacha Rd	TO	Hillsdale Rd
SEGMENT LENGTH	2.0 miles	AREA	Rancho San Diego

Prevailing Speeds: Posted Speed: **45 MPH**

Location	1,000' E/o Muirfield Dr	2,560' E/o Steele Canyon Rd	500' W/o Hillsdale Rd	Speed Zone
Date of Survey	11/27/2018	11/27/2018	11/27/2018	11/27/2018
85 th Percentile	51.2 MPH	52.2 MPH	48 MPH	50.5 MPH
10 MPH Pace	42-51	43-52	38-47	41-50
Percent in Pace	64%	65%	65%	64.7%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2018)
Total Collisions	51
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	1.38
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	27

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	21,190 vpd	Date Counted	05/23/2019
Number of Lanes	4 & 2	Road Striping	Center, Edge Lines
Mobility Element		Caltrans Urban/Rural	
Road Classification	Major Road	Classification	Suburban
Roadbed Width	40-64 feet	Travelled Lane Width	40-64 feet (12 ft lanes)
Road Curvature	Curvilinear	Available Shoulders	None
Intersecting Roads	Minimal	Intersecting Driveways	Minimal
Pedestrian Pathways	Some	Bike Lane/Route	Yes

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



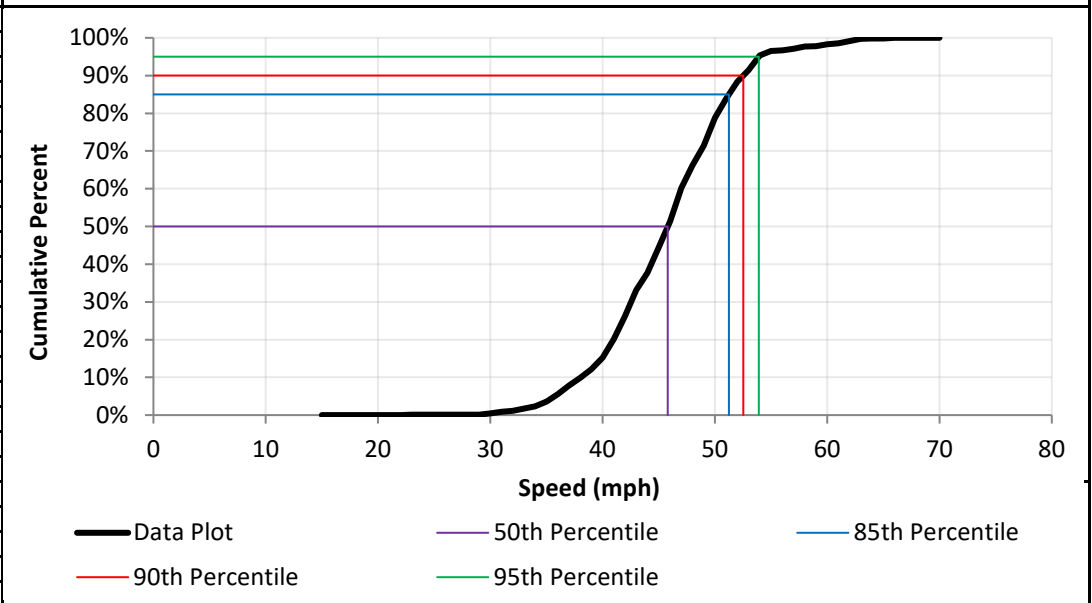
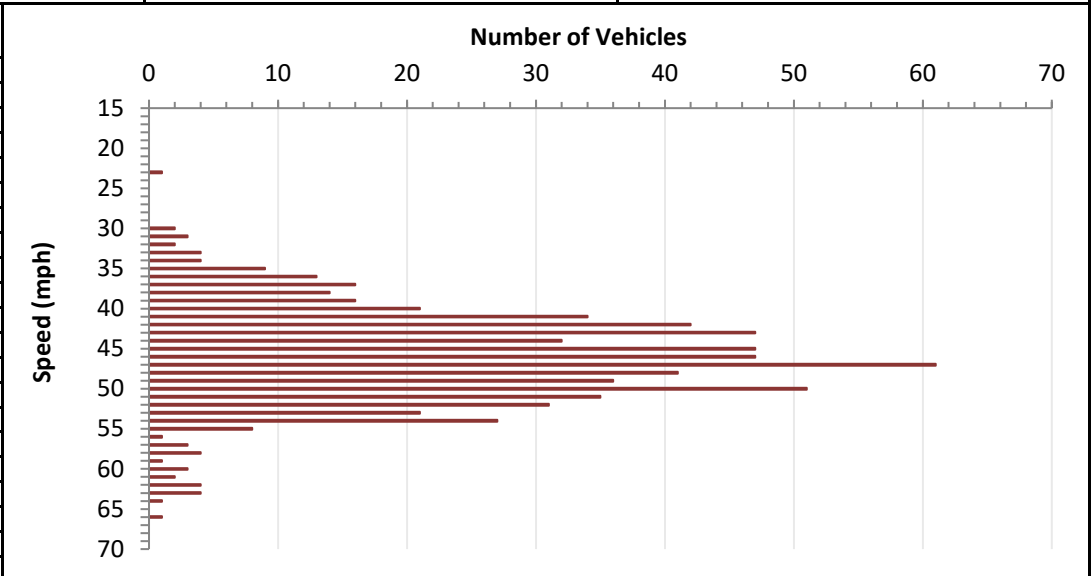
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Willow Glen Dr	From:	Jamacha Rd (SR-54)	To:	Hillsdale Rd
Position:	1,000' E/o Muirfield Dr	Direction:	EB/WB		

Date:	11/27/2018	Weather:	Clear	Project Number:	0
Time Start:	1:25 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:25 PM	Posted Speed:	45 MPH	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23	1	0.1%
24		
25		
26		
27		
28		
29		
30	2	0.4%
31	3	0.9%
32	2	1.2%
33	4	1.7%
34	4	2.3%
35	9	3.6%
36	13	5.5%
37	16	7.8%
38	14	9.9%
39	16	12.2%
40	21	15.2%
41	34	20.2%
42	42	26.3%
43	47	33.1%
44	32	37.7%
45	47	44.6%
46	47	51.4%
47	61	60.2%
48	41	66.2%
49	36	71.4%
50	51	78.8%
51	35	83.9%
52	31	88.4%
53	21	91.4%
54	27	95.4%
55	8	96.5%
56	1	96.7%
57	3	97.1%
58	4	97.7%
59	1	97.8%
60	3	98.3%
61	2	98.5%
62	4	99.1%
63	4	99.7%
64	1	99.9%
65		
66	1	100.0%
67		
68		
69		
70		
Total	689	



DATA ANALYSIS

Average Speed	46.1	Range	23 - 66
50th Percentile	45.8	10 mph Pace	42 - 51
85th Percentile	51.2	Number in Pace	439
90th Percentile	52.5	Percent in Pace	64%
95th Percentile	53.9		



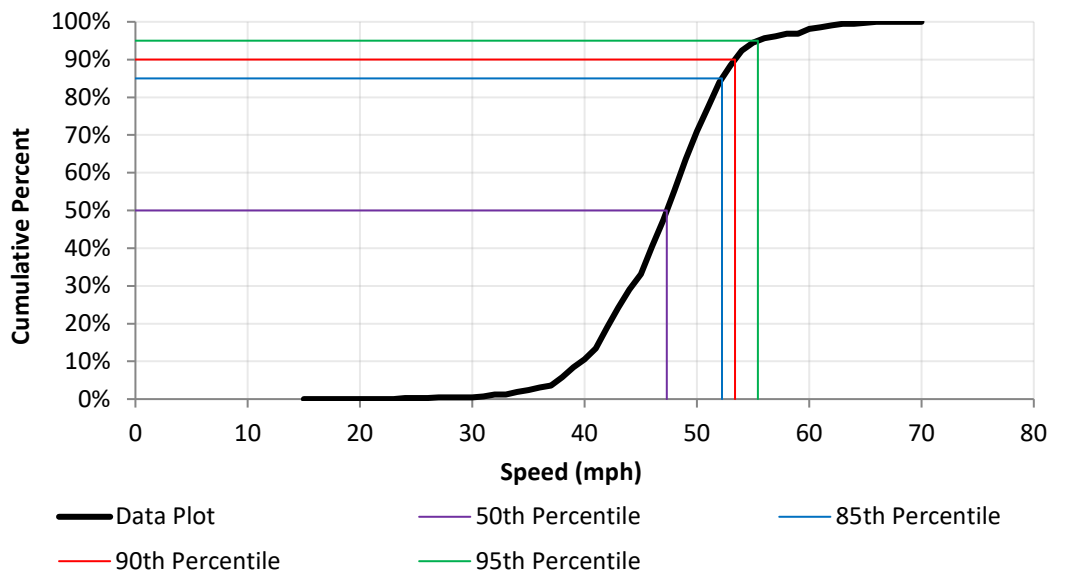
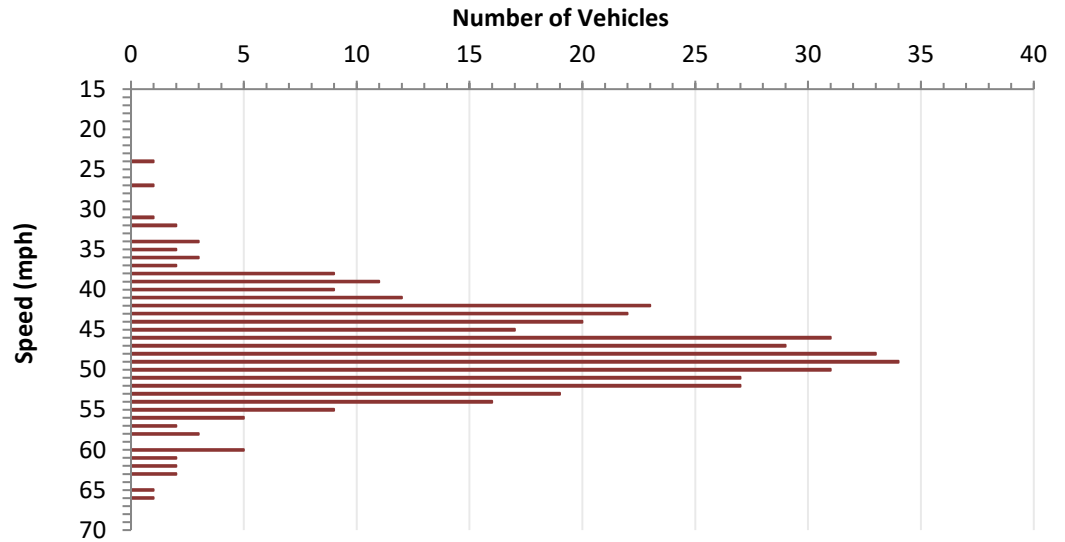
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Willow Glen Dr	From:	Jamacha Rd (SR-54)	To:	Hillsdale Rd
Position:	2,560' E/o Steele Canyon Rd	Direction:	EB/WB		

Date:	11/27/2018	Weather:	Clear	Project Number:	0
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24	1	0.2%
25		
26		
27	1	0.5%
28		
29		
30		
31	1	0.7%
32	2	1.2%
33		
34	3	1.9%
35	2	2.4%
36	3	3.1%
37	2	3.6%
38	9	5.8%
39	11	8.4%
40	9	10.6%
41	12	13.4%
42	23	18.9%
43	22	24.2%
44	20	29.0%
45	17	33.1%
46	31	40.5%
47	29	47.5%
48	33	55.4%
49	34	63.5%
50	31	71.0%
51	27	77.5%
52	27	83.9%
53	19	88.5%
54	16	92.3%
55	9	94.5%
56	5	95.7%
57	2	96.2%
58	3	96.9%
59		
60	5	98.1%
61	2	98.6%
62	2	99.0%
63	2	99.5%
64		
65	1	99.8%
66	1	100.0%
67		
68		
69		
70		
Total	417	



DATA ANALYSIS

Average Speed	47.5	Range	24 - 66
50th Percentile	47.3	10 mph Pace	43 - 52
85th Percentile	52.2	Number in Pace	271
90th Percentile	53.4	Percent in Pace	65%
95th Percentile	55.4		



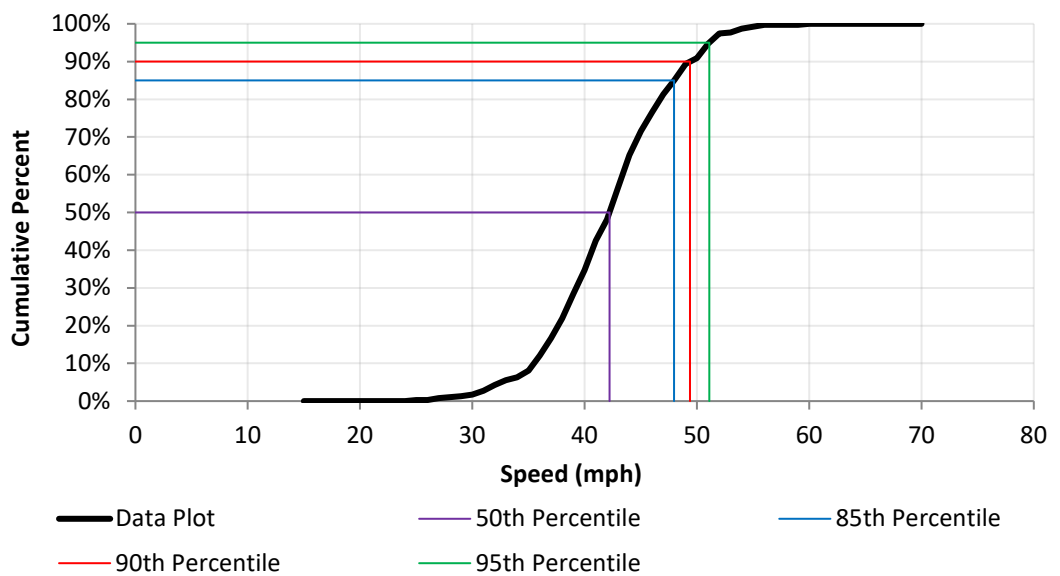
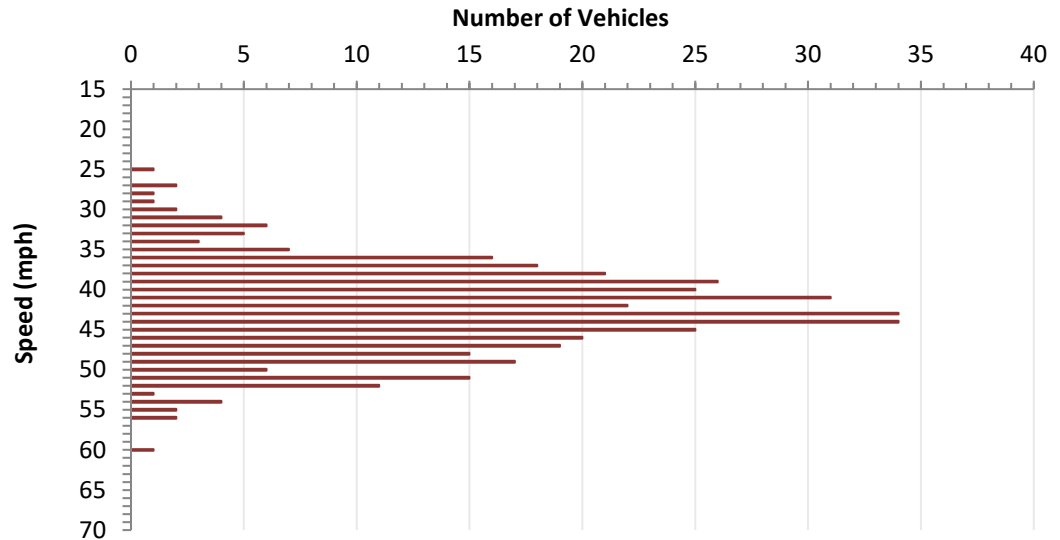
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Willow Glen Dr	From:	Jamacha Rd (SR-54)	To:	Hillsdale Rd
Position:	500' W/o Hillsdale Rd	Direction:	EB/WB		

Date:	11/27/2018	Weather:	Clear	Project Number:	0
Time Start:	11:10 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:10 PM	Posted Speed:	45 MPH	Calibration Test:	0

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25	1	0.3%
26		
27	2	0.8%
28	1	1.0%
29	1	1.3%
30	2	1.8%
31	4	2.8%
32	6	4.3%
33	5	5.5%
34	3	6.3%
35	7	8.1%
36	16	12.1%
37	18	16.6%
38	21	21.9%
39	26	28.5%
40	25	34.8%
41	31	42.6%
42	22	48.1%
43	34	56.7%
44	34	65.2%
45	25	71.5%
46	20	76.6%
47	19	81.4%
48	15	85.1%
49	17	89.4%
50	6	90.9%
51	15	94.7%
52	11	97.5%
53	1	97.7%
54	4	98.7%
55	2	99.2%
56	2	99.7%
57		
58		
59		
60	1	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	397	



DATA ANALYSIS

Average Speed	42.6	Range	25 - 60
50th Percentile	42.2	10 mph Pace	38 - 47
85th Percentile	48.0	Number in Pace	257
90th Percentile	49.4	Percent in Pace	65%
95th Percentile	51.1		

VOLUME

Willow Glen Dr 300' W/O Steele Canyon Rd

Day: Thursday
Date: 5/23/2019City: Valle de Oro
Project #: CA19_4218_016

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						10,913	10,279						21,192
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			21	35	56		12:00			133	126	259							
00:15			27	62	89		12:15			142	128	270							
00:30			35	53	88		12:30			139	156	295							
00:45			18	101	46	196	12:45			170	584	155	565	325	1149				
01:00			21	20	41		13:00			159	111	270							
01:15			22	32	54		13:15			175	135	310							
01:30			13	35	48		13:30			209	134	343							
01:45			9	65	27	114	13:45			193	736	146	526	339	1262				
02:00			10	33	43		14:00			189	200	389							
02:15			9	32	41		14:15			201	170	371							
02:30			11	12	23		14:30			227	146	373							
02:45			7	37	24	101	14:45			212	829	160	676	372	1505				
03:00			6	28	34		15:00			240	186	426							
03:15			6	16	22		15:15			215	194	409							
03:30			9	14	23		15:30			251	149	400							
03:45			6	27	14	72	15:45			198	904	157	686	355	1590				
04:00			12	26	38		16:00			212	156	368							
04:15			8	33	41		16:15			236	155	391							
04:30			11	37	48		16:30			238	157	395							
04:45			21	52	34	130	16:45			216	902	175	643	391	1545				
05:00			20	34	54		17:00			230	112	342							
05:15			33	49	82		17:15			224	162	386							
05:30			35	61	96		17:30			255	124	379							
05:45			49	137	88	232	17:45			237	946	138	536	375	1482				
06:00			52	125	177		18:00			238	123	361							
06:15			58	109	167		18:15			227	111	338							
06:30			74	127	201		18:30			170	124	294							
06:45			89	273	176	537	18:45			174	809	78	436	252	1245				
07:00			118	203	321		19:00			160	85	245							
07:15			136	190	326		19:15			155	96	251							
07:30			152	233	385		19:30			139	91	230							
07:45			182	588	216	842	19:45			128	582	89	361	217	943				
08:00			117	215	332		20:00			120	102	222							
08:15			117	178	295		20:15			136	128	264							
08:30			134	212	346		20:30			125	98	223							
08:45			124	492	179	784	20:45			106	487	78	406	184	893				
09:00			129	138	267		21:00			102	79	181							
09:15			124	158	282		21:15			121	71	192							
09:30			126	149	275		21:30			91	62	153							
09:45			110	489	133	578	21:45			87	401	71	283	158	684				
10:00			119	129	248		22:00			70	74	144							
10:15			102	119	221		22:15			88	78	166							
10:30			100	131	231		22:30			86	60	146							
10:45			113	434	145	524	22:45			48	292	63	275	111	567				
11:00			132	131	263		23:00			47	44	91							
11:15			131	135	266		23:15			65	50	115							
11:30			147	123	270		23:30			47	69	116							
11:45			138	548	147	536	23:45			39	198	77	240	116	438				
TOTALS			3243	4646	7889		TOTALS			7670	5633	13303							
SPLIT %			41.1%	58.9%	37.2%		SPLIT %			57.7%	42.3%	62.8%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						10,913	10,279						21,192
AM Peak Hour			07:00	07:15	07:15		PM Peak Hour			17:30	14:45	14:45							
AM Pk Volume			588	854	1441		PM Pk Volume			957	689	1607							
Pk Hr Factor			0.808	0.916	0.905		Pk Hr Factor			0.938	0.888	0.943							
7 - 9 Volume	0	0	1080	1626	2706		4 - 6 Volume	0	0	1848	1179	3027							
7 - 9 Peak Hour			07:00	07:15	07:15		4 - 6 Peak Hour			17:00	16:00	16:00							
7 - 9 Pk Volume	0	0	588	854	1441		4 - 6 Pk Volume	0	0	946	643	1545							
Pk Hr Factor	0.000	0.000	0.808	0.916	0.905		Pk Hr Factor	0.000	0.000	0.927	0.919	0.978							

VOLUME

Willow Glen Rd E/O Steele Canyon Rd

Day: Tuesday
Date: 5/30/2017City: Jamul
Project #: CA17_4133_005

DAILY TOTALS					NB	SB	EB		WB	Total					
					0	0	6,293		6,270	12,563					
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00			11	40	51		12:00			62	73	135			
00:15			21	44	65		12:15			77	73	150			
00:30			13	35	48		12:30			86	80	166			
00:45			6	51	33	152	12:45			83	308	86	312	169	620
01:00			9	30	39		13:00			97	86	183			
01:15			11	31	42		13:15			102	74	176			
01:30			14	27	41		13:30			93	77	170			
01:45			6	40	22	110	13:45			92	384	82	319	174	703
02:00			5	28	33		14:00			106	100	206			
02:15			11	25	36		14:15			113	89	202			
02:30			13	23	36		14:30			97	102	199			
02:45			6	35	20	96	14:45			135	451	98	389	233	840
03:00			5	20	25		15:00			115	121	236			
03:15			3	20	23		15:15			106	122	228			
03:30			5	14	19		15:30			130	109	239			
03:45			7	20	21	75	15:45			124	475	85	437	209	912
04:00			3	20	23		16:00			118	97	215			
04:15			8	11	19		16:15			124	117	241			
04:30			13	19	32		16:30			108	116	224			
04:45			15	39	27	77	16:45			102	452	107	437	209	889
05:00			16	10	26		17:00			139	110	249			
05:15			16	23	39		17:15			122	126	248			
05:30			35	27	62		17:30			128	86	214			
05:45			30	97	36	96	17:45			112	501	110	432	222	933
06:00			59	43	102		18:00			129	82	211			
06:15			53	57	110		18:15			125	121	246			
06:30			60	66	126		18:30			117	63	180			
06:45			54	226	109	275	18:45			97	468	68	334	165	802
07:00			83	83	166		19:00			99	67	166			
07:15			107	96	203		19:15			59	55	114			
07:30			106	88	194		19:30			52	76	128			
07:45			114	410	93	360	19:45			97	307	51	249	148	556
08:00			99	93	192		20:00			69	54	123			
08:15			101	77	178		20:15			59	52	111			
08:30			76	103	179		20:30			59	55	114			
08:45			100	376	110	383	20:45			56	243	42	203	98	446
09:00			78	80	158		21:00			48	48	96			
09:15			79	75	154		21:15			50	65	115			
09:30			77	59	136		21:30			53	72	125			
09:45			85	319	56	270	21:45			41	192	49	234	90	426
10:00			79	72	151		22:00			49	69	118			
10:15			79	81	160		22:15			33	66	99			
10:30			71	69	140		22:30			47	54	101			
10:45			87	316	71	293	22:45			33	162	47	236	80	398
11:00			75	77	152		23:00			34	65	99			
11:15			92	56	148		23:15			33	60	93			
11:30			62	76	138		23:30			19	47	66			
11:45			90	319	70	279	23:45			16	102	50	222	66	324
TOTALS			2248	2466	4714		TOTALS			4045	3804	7849			
SPLIT %			47.7%	52.3%	37.5%		SPLIT %			51.5%	48.5%	62.5%			

DAILY TOTALS				NB	SB	EB				WB	Total	
				0	0	6,293				6,270	12,563	
AM Peak Hour			07:15	08:00	07:15		PM Peak Hour			17:00	16:30	14:45
AM Pk Volume			426	383	796		PM Pk Volume			501	459	936
Pk Hr Factor			0.934	0.870	0.961		Pk Hr Factor			0.901	0.911	0.979
7 - 9 Volume	0	0	786	743	1529		4 - 6 Volume	0	0	953	869	1822
7 - 9 Peak Hour			07:15	08:00	07:15		4 - 6 Peak Hour			7:00	16:30	17:00
7 - 9 Pk Volume	0	0	426	38	796		4 - 6 Pk Volume	0	0	501	459	933
Pk Hr Factor	0.000	0.000	0.934	0.870	0.961		Pk Hr Factor	0.000	0.000	0.901	0.911	0.937

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-P**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Lemon Avenue from the La Mesa City Limits (W/o Marguerita Lane) to the La Mesa City Limits (E/o Alto Dr) (a distance of 0.39 miles), LA MESA (Thos. Bros. 1271-B2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Lemon Avenue from the La Mesa City Limits (W/o Marguerita Lane) to the La Mesa City Limits (E/o Alto Dr) is posted 35 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support recertification of the existing 35 MPH speed limit.

Existing Traffic Devices

Lemon Avenue is a striped two-lane through highway with a 24-foot travelled way on a 32-foot roadbed. The roadway is striped with a no passin centerline and white edgeline. Lemon Avenue is all-way stop controlled at Alto Drive. Lemon Avenue is classified as a Community Collector on the County General Plan Mobility Element Network and is posted 35 MPH/Radar Enforced.

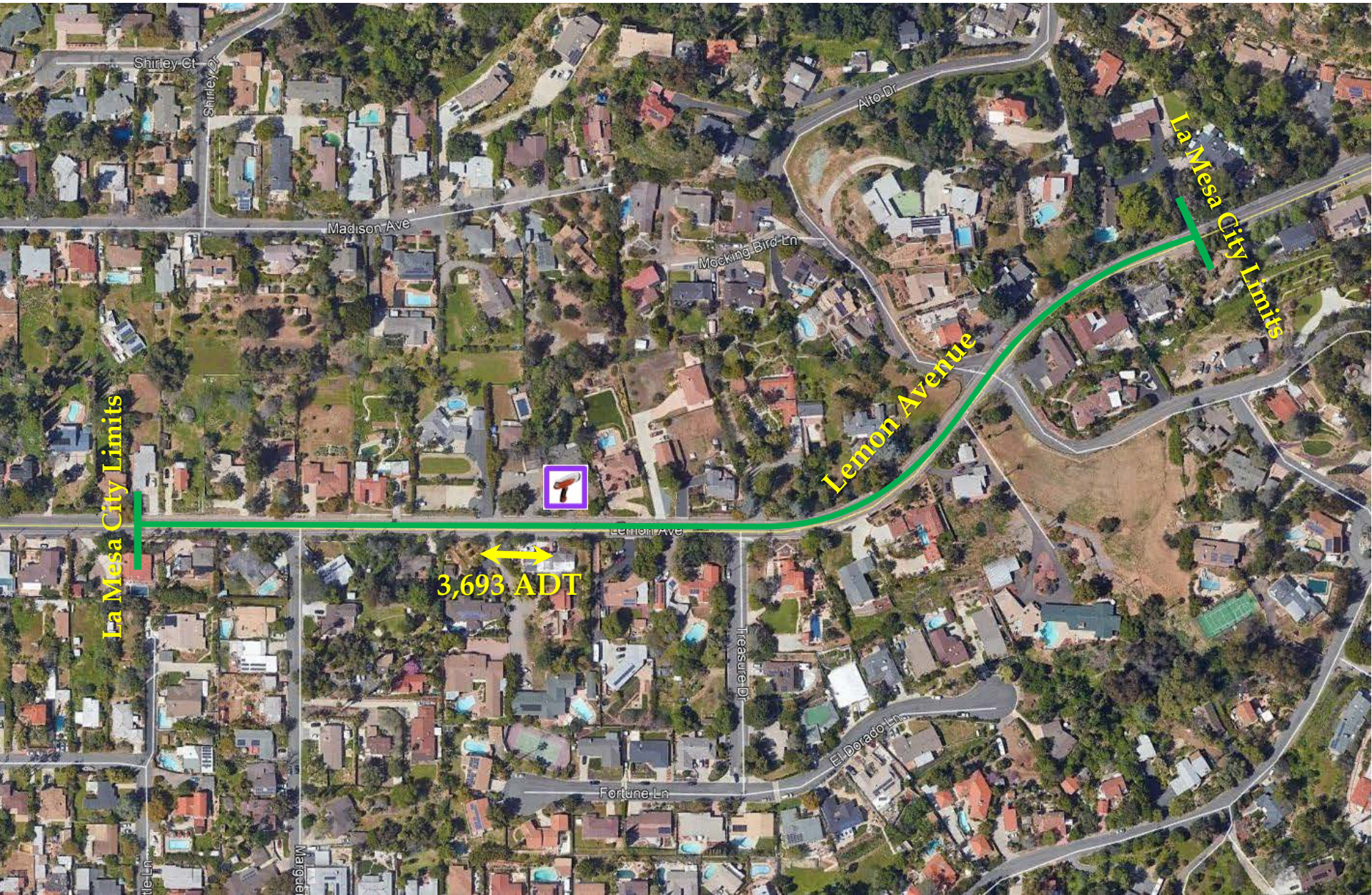
<u>Average Daily Traffic Volumes</u>		<u>09/19</u>	<u>06/12</u>	<u>04/02</u>
Lemon Avenue				
400' W/o Treasure Drive		3,693	3,460	2,460
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Lemon Avenue				
400' W/o Treasure Drive	(2019)	42.4 MPH	32-41	73.0%
	(2012)	42.2 MPH	32-41	73.1%

Collision Data

There have been 3 reported collisions along this segment of roadway, 3 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 1.91 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

2-P. Radar Certification

Lemon Avenue from La Mesa C/L to La Mesa C/L (0.39 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET Lemon Avenue **CERTIFICATION DATE** 02/26/2020
FROM La Mesa CL (W/o Marguerita Ln) **TO** La Mesa CL (E/o Alto Dr)
SEGMENT LENGTH 0.39 miles **AREA** La Mesa

Prevailing Speeds: Posted Speed: **35 MPH**

Location	400' W/o Treasure Dr
Date of Survey	11/19/2019
85th Percentile	42.4 MPH
10 MPH Pace	32 – 41
Percent in Pace	73%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2018)
Total Collisions	3
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	1.91
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	3

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	3,693 vpd	Date Counted	09/26/2019
Number of Lanes	2	Road Striping	Center, Edge Lines
Mobility Element	Community Collector	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	24 feet (12 ft lanes)
Roadbed Width	32 feet	Available Shoulders	4 foot shoulders
Road Curvature	Curvilinear	Intersecting Driveways	Many
Intersecting Roads	Some	Bike Lane/Route	None
Pedestrian Pathways	None		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date

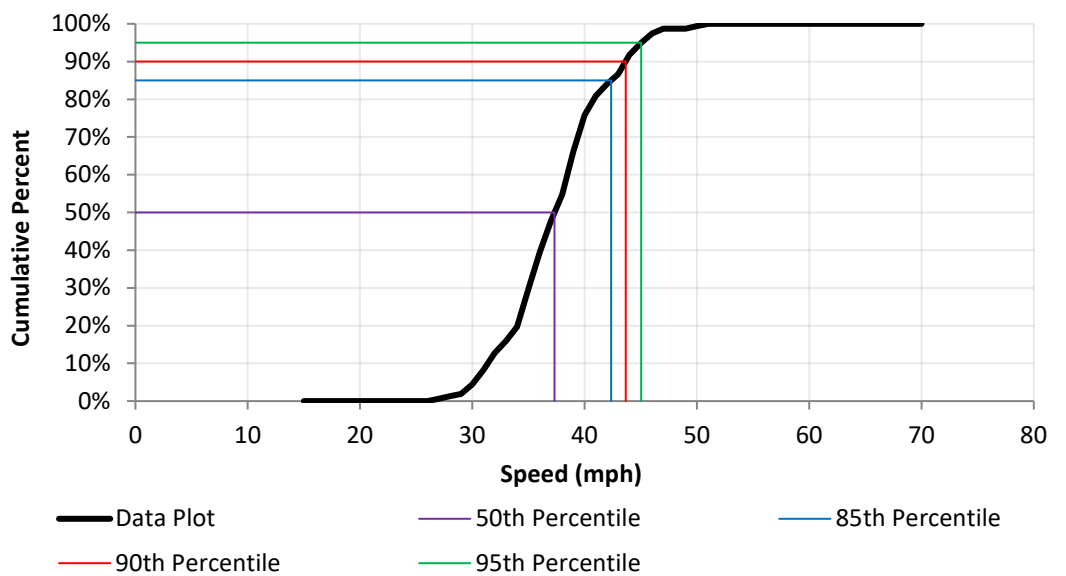
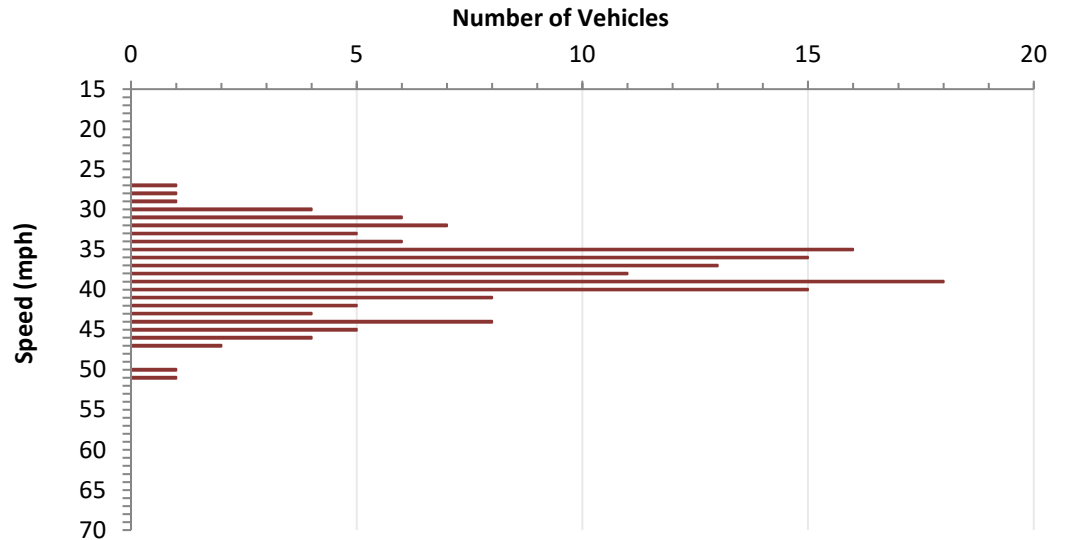


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Lemon Av	From:	La Mesa CL (W/o Maguerita Ln)	To:	La Mesa CL (E/o Alto Dr)
Position:	400' W/o Treasure Dr	Direction:	EB/WB		
Date:	11/19/2019	Weather:	Clear	Project Number:	N/A
Time Start:	9:45 AM	Road Condition:	Dry	Observer:	County
Time End:	11:15 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	1	0.6%
28	1	1.3%
29	1	1.9%
30	4	4.5%
31	6	8.3%
32	7	12.7%
33	5	15.9%
34	6	19.7%
35	16	29.9%
36	15	39.5%
37	13	47.8%
38	11	54.8%
39	18	66.2%
40	15	75.8%
41	8	80.9%
42	5	84.1%
43	4	86.6%
44	8	91.7%
45	5	94.9%
46	4	97.5%
47	2	98.7%
48		
49		
50	1	99.4%
51	1	100.0%
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	157	



DATA ANALYSIS

Average Speed	37.9	Range	27 - 51
50th Percentile	37.3	10 mph Pace	32 - 41
85th Percentile	42.4	Number in Pace	114
90th Percentile	43.7	Percent in Pace	73%
95th Percentile	45.0		

VOLUME

Lemon Ave 400' W/O Treasure Dr

Day: Thursday
Date: 9/26/2019City: La Mesa
Project #: CA19_4362_004e

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,861	1,832						3,693
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
0:00			1	3	4		12:00			41	33	74							74
0:15			2	2	4		12:15			34	29	63							63
0:30			2	0	2		12:30			27	31	58							58
0:45			1	6	7	11	12:45			36	138	174	269						269
1:00			0	0	0		13:00			34	26	60							60
1:15			0	0	0		13:15			31	22	53							53
1:30			1	0	1		13:30			30	22	52							52
1:45			0	1	1	2	13:45			31	126	157	229						229
2:00			1	1	2		14:00			26	38	64							64
2:15			0	1	1		14:15			31	21	52							52
2:30			0	0	0		14:30			44	21	65							65
2:45			4	5	9	9	14:45			32	133	165	241						241
3:00			0	0	0		15:00			49	29	78							78
3:15			2	1	3		15:15			38	32	70							70
3:30			0	0	0		15:30			42	40	82							82
3:45			0	2	2	4	15:45			40	169	209	296						296
4:00			1	1	2		16:00			48	32	80							80
4:15			1	2	3		16:15			36	27	63							63
4:30			1	2	3		16:30			50	26	76							76
4:45			0	3	3	7	16:45			37	171	208	288						288
5:00			0	3	3		17:00			52	24	76							76
5:15			1	3	4		17:15			43	24	67							67
5:30			3	5	8		17:30			45	17	62							62
5:45			3	7	10	24	17:45			34	174	208	268						268
6:00			3	12	15		18:00			45	24	69							69
6:15			4	27	31		18:15			44	22	66							66
6:30			5	22	27		18:30			38	22	60							60
6:45			16	28	44	97	18:45			24	151	175	247						247
7:00			14	34	48		19:00			24	16	40							40
7:15			9	64	73		19:15			30	11	41							41
7:30			23	57	80		19:30			28	7	35							35
7:45			24	70	94	226	19:45			23	105	128	150						150
8:00			19	55	74		20:00			18	11	29							29
8:15			16	43	59		20:15			22	6	28							28
8:30			17	46	63		20:30			16	14	30							30
8:45			16	68	84	181	20:45			24	80	104	129						129
9:00			29	40	69		21:00			24	4	28							28
9:15			24	36	60		21:15			14	5	19							19
9:30			23	41	64		21:30			8	5	13							13
9:45			25	101	126	149	21:45			11	57	68	77						77
10:00			37	36	73		22:00			13	3	16							16
10:15			23	39	62		22:15			5	7	12							12
10:30			21	28	49		22:30			8	4	12							12
10:45			21	102	123	134	22:45			7	33	40	49						49
11:00			29	20	49		23:00			6	6	12							12
11:15			21	25	46		23:15			3	1	4							4
11:30			27	25	52		23:30			5	2	7							7
11:45			36	113	149	86	23:45			4	18	22	28						28
TOTALS			506	916	1422		TOTALS			1355	916	2271							2271
SPLIT %			35.6%	64.4%	38.5%		SPLIT %			59.7%	40.3%	61.5%							61.5%

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,861	1,832						3,693
AM Peak Hour			11:30	7:15	7:15		PM Peak Hour			16:30	12:00	15:15							
AM Pk Volume			138	247	322		PM Pk Volume			182	131	298							
Pk Hr Factor			0.841	0.870	0.847		Pk Hr Factor			0.875	0.862	0.909							
7 - 9 Volume	0	0	138	407	545		4 - 6 Volume	0	0	345	211	556							
7 - 9 Peak Hour			7:30	7:15	7:15		4 - 6 Peak Hour			16:30	16:00	16:00							
7 - 9 Pk Volume	0	0	82	247	322		4 - 6 Pk Volume	0	0	182	117	288							
Pk Hr Factor	0.000	0.000	0.854	0.870	0.847		Pk Hr Factor	0.000	0.000	0.875	0.914	0.900							

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019

Item **2-Q**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Jamacha Rd from Sweetwater Road to Grand Avenue
(a distance of 0.90 miles), LA PRESA (Thos. Bros.
1291-A1)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit

PROBLEM AS STATED BY REQUESTER:

Jamacha Road from Sweetwater Road to Grand Avenue is posted 40 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support a 40 MPH speed limit.

Existing Traffic Devices

Jamacha Road is a striped five-lane undivided Through Highway that varies from 47 feet to 72 feet in width. There is a two-way left-turn lane separating both directions of travel. There is edge-striping along both sides of the road. There are traffic control signals at multiple intersections along the segment. The road is posted 40 MPH/ Radar Certified. This roadway is classified as a Major Road on the County General Plan Mobility Element Network.

Average Daily Traffic Volumes

	<u>10/19</u>	<u>12/12</u>
Jamacha Road		
E/o Gillispie Dr	24,370	22,070

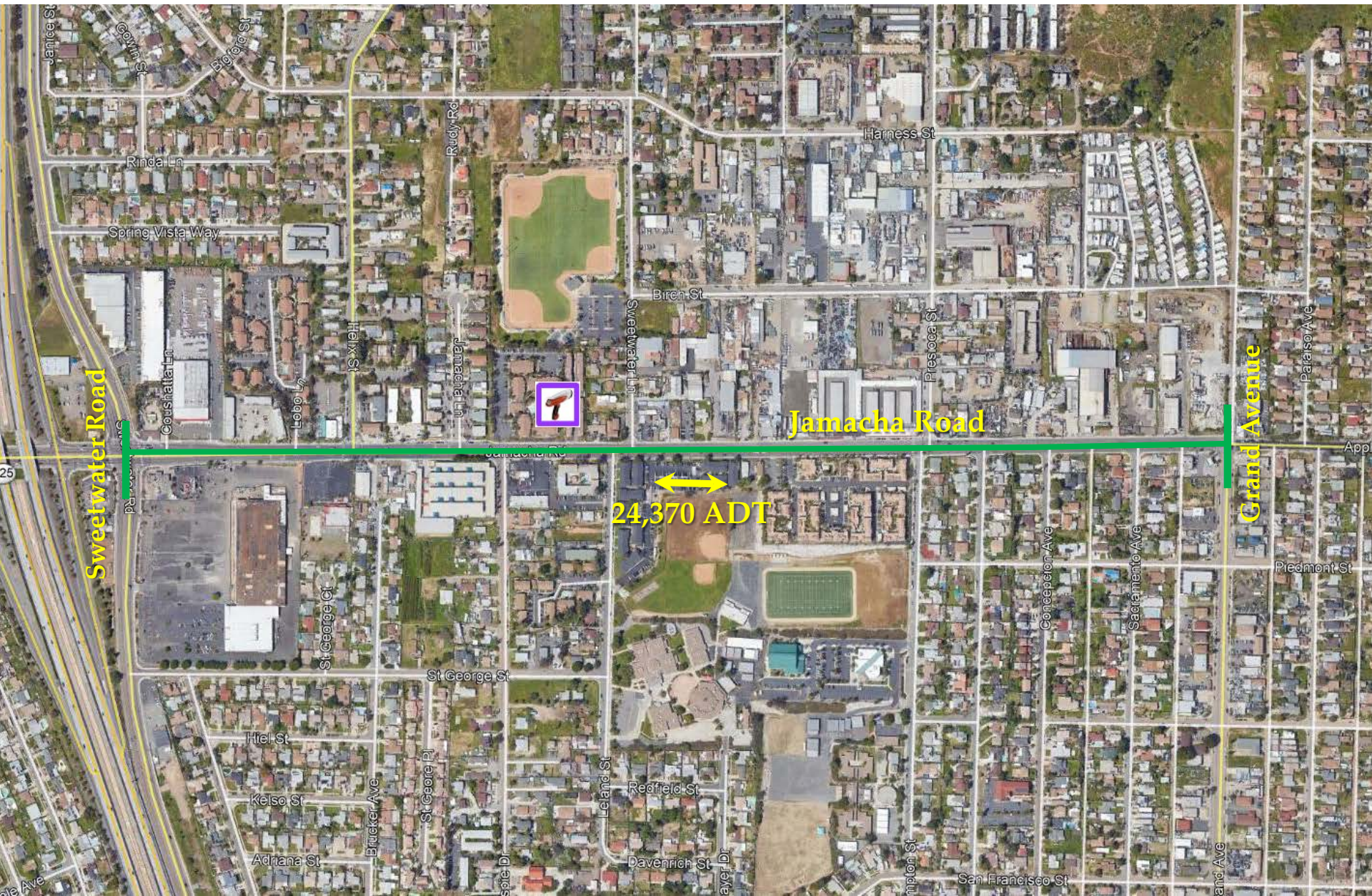
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Jamacha Road				
185' E/o Gillispie Dr	(2019)	43.5 MPH	33-42	76.0%
	(2012)	44.0 MPH	28-37	50.0%

Collision Data

There have been 121 reported collisions along this segment of roadway, 46 of which involved injury, in a 3 year period (04-01-16 to 03-31-19). These collisions result in a segment accident rate of 5.05 collisions per million vehicle miles. The statewide average is 0.13 collisions per million vehicle miles for similar suburban undivided 5-6 lanes with speed less than or equal 55 mph.

2-Q. Radar Certification

Jamacha Road from Sweetwater Road to Grand Avenue (0.90 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Jamacha Road	CERTIFICATION DATE	02/26/2020
FROM	Sweetwater Road	TO	Grand Avenue
SEGMENT LENGTH	0.90 miles	AREA	La Presa

Prevailing Speeds: Posted Speed: **40 MPH**

Location	185' E/o Gillispe Dr
Date of Survey	10/01/2019
85th Percentile	43.5 MPH
10 MPH Pace	33 – 42
Percent in Pace	76%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2018)
Total Collisions	121
Statewide Average Collision Rate	0.13
Collisions per Million Vehicle Miles	5.05
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	46

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	24,370 vpd	Date Counted	10/09/2019
Number of Lanes	5	Road Striping	2-Way Left Turn Lane
Mobility Element	Major Road	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	47-72 feet	Travelled Lane Width	40-60 feet (12 ft lanes)
Road Curvature	Some Vertical Curves	Available Shoulders	3 to 10 foot shoulders
Intersecting Roads	Several	Intersecting Driveways	Several
Pedestrian Pathways	Sidewalk	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **40 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date

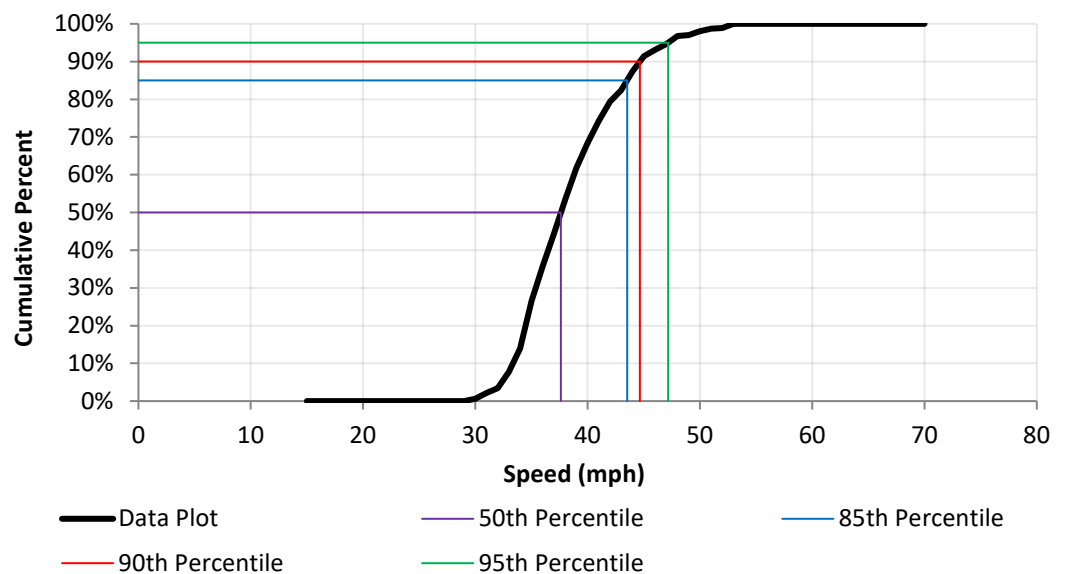
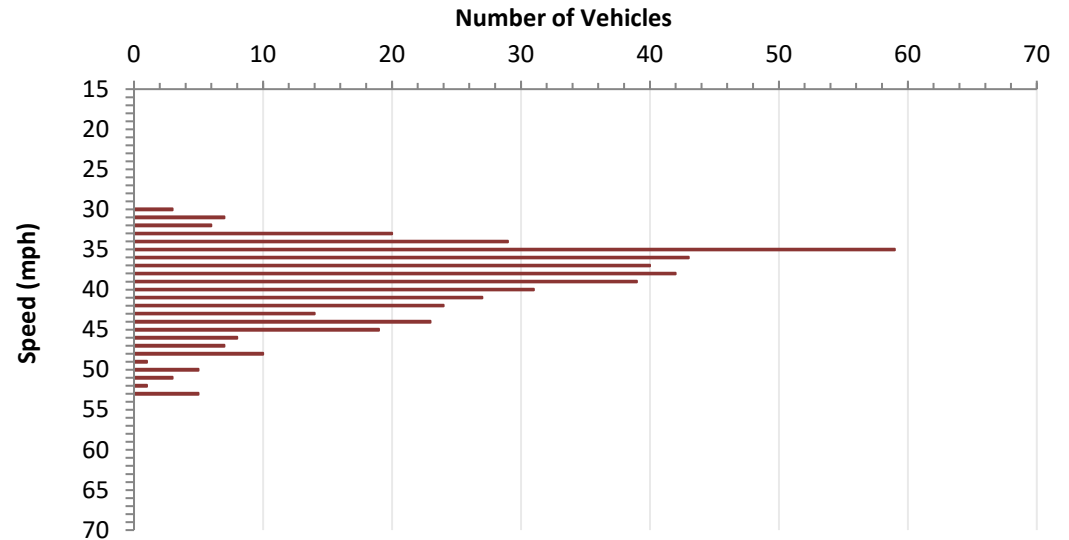


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jamacha Rd	From:	Sweetwater Rd	To:	Grand Av
Position:	185' EO Gillespie Dr	Direction:	EB/WB		
Date:	10/1/2019	Weather:	Clear	Project Number:	19-4363-003
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	3	0.6%
31	7	2.1%
32	6	3.4%
33	20	7.7%
34	29	13.9%
35	59	26.6%
36	43	35.8%
37	40	44.4%
38	42	53.4%
39	39	61.8%
40	31	68.5%
41	27	74.2%
42	24	79.4%
43	14	82.4%
44	23	87.3%
45	19	91.4%
46	8	93.1%
47	7	94.6%
48	10	96.8%
49	1	97.0%
50	5	98.1%
51	3	98.7%
52	1	98.9%
53	5	100.0%
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	466	



DATA ANALYSIS

Average Speed	38.9	Range	30 - 53
50th Percentile	37.6	10 mph Pace	33 - 42
85th Percentile	43.5	Number in Pace	354
90th Percentile	44.7	Percent in Pace	76%
95th Percentile	47.2		

VOLUME

Jamacha Rd 180' E/O Gillespie Dr

Day: Wednesday
Date: 10/9/2019City: Spring Valley
Project #: CA19_4362_003e

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						12,077	12,295	24,372
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL		
0:00			41	24	65		12:00			153	167	320		
0:15			49	20	69		12:15			172	142	314		
0:30			50	25	75		12:30			159	176	335		
0:45			38	178	21	90	12:45			177	661	168	653	1314
1:00			27	23	50		13:00			178	179	357		
1:15			21	9	30		13:15			187	146	333		
1:30			20	15	35		13:30			164	146	310		
1:45			20	88	19	66	13:45			195	724	151	622	1346
2:00			21	12	33		14:00			176	157	333		
2:15			22	16	38		14:15			194	176	370		
2:30			16	25	41		14:30			190	185	375		
2:45			24	83	11	64	14:45			210	770	170	688	1458
3:00			18	19	37		15:00			211	166	377		
3:15			12	16	28		15:15			218	181	399		
3:30			19	44	63		15:30			229	180	409		
3:45			11	60	38	117	15:45			240	898	149	676	1574
4:00			17	39	56		16:00			225	151	376		
4:15			19	44	63		16:15			260	204	464		
4:30			13	75	88		16:30			255	182	437		
4:45			28	77	80	238	16:45			260	1000	174	711	1711
5:00			33	120	153		17:00			233	187	420		
5:15			33	133	166		17:15			270	161	431		
5:30			51	158	209		17:30			264	243	507		
5:45			75	192	168	579	17:45			255	1022	192	783	1805
6:00			58	253	311		18:00			264	211	475		
6:15			63	195	258		18:15			258	172	430		
6:30			93	249	342		18:30			226	200	426		
6:45			94	308	217	914	18:45			218	966	172	755	1721
7:00			102	271	373		19:00			203	151	354		
7:15			97	241	338		19:15			230	137	367		
7:30			95	195	290		19:30			188	156	344		
7:45			110	404	215	922	19:45			184	805	175	619	1424
8:00			111	200	311		20:00			159	157	316		
8:15			124	172	296		20:15			161	117	278		
8:30			121	213	334		20:30			161	117	278		
8:45			99	455	175	760	20:45			167	648	123	514	1162
9:00			117	150	267		21:00			131	99	230		
9:15			95	157	252		21:15			144	81	225		
9:30			115	169	284		21:30			142	72	214		
9:45			146	473	153	629	21:45			109	526	67	319	845
10:00			109	129	238		22:00			106	60	166		
10:15			121	156	277		22:15			102	62	164		
10:30			125	168	293		22:30			93	59	152		
10:45			136	491	126	579	22:45			81	382	41	222	604
11:00			132	171	303		23:00			93	58	151		
11:15			150	145	295		23:15			83	42	125		
11:30			148	138	286		23:30			63	29	92		
11:45			133	563	165	619	23:45			64	303	27	156	459
TOTALS			3372	5577	8949		TOTALS			8705	6718	15423		
SPLIT %			37.7%	62.3%	36.7%		SPLIT %			56.4%	43.6%	63.3%		

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						12,077	12,295	24,372
AM Peak Hour			11:45	6:30	6:30		PM Peak Hour			17:15	17:30	17:15		
AM Pk Volume			617	978	1364		PM Pk Volume			1053	818	1860		
Pk Hr Factor			0.897	0.902	0.914		Pk Hr Factor			0.975	0.842	0.917		
7 - 9 Volume	0	0	859	1682	2541		4 - 6 Volume	0	0	2022	1494	3516		
7 - 9 Peak Hour			7:45	7:00	7:00		4 - 6 Peak Hour			16:45	17:00	17:00		
7 - 9 Pk Volume	0	0	466	922	1326		4 - 6 Pk Volume	0	0	1027	783	1805		
Pk Hr Factor	0.000	0.000	0.940	0.851	0.889		Pk Hr Factor	0.000	0.000	0.951	0.806	0.890		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-R**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Apple Street from Grand Avenue to Galapago Avenue / Capistrano Street (a distance of 0.40 miles), LA PRESA (Thos. Bros. 1291-C2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit

PROBLEM AS STATED BY REQUESTER:

Apple Street from Grand Avenue to Galapago Avenue / Capistrano Street is posted 40 MPH Radar Enforced. Preliminary review of prevailing speeds and roadway conditions could support a 35 MPH speed limit.

Existing Traffic Devices

Apple Street is a striped two-lane roadway with 36 feet in width. There are all-way stop controls at the intersections of La Presa Avenue and Capistrano Avenue / Galapago Street on the eastern end of this segment. The road is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted 40 MPH/Radar Enforced.

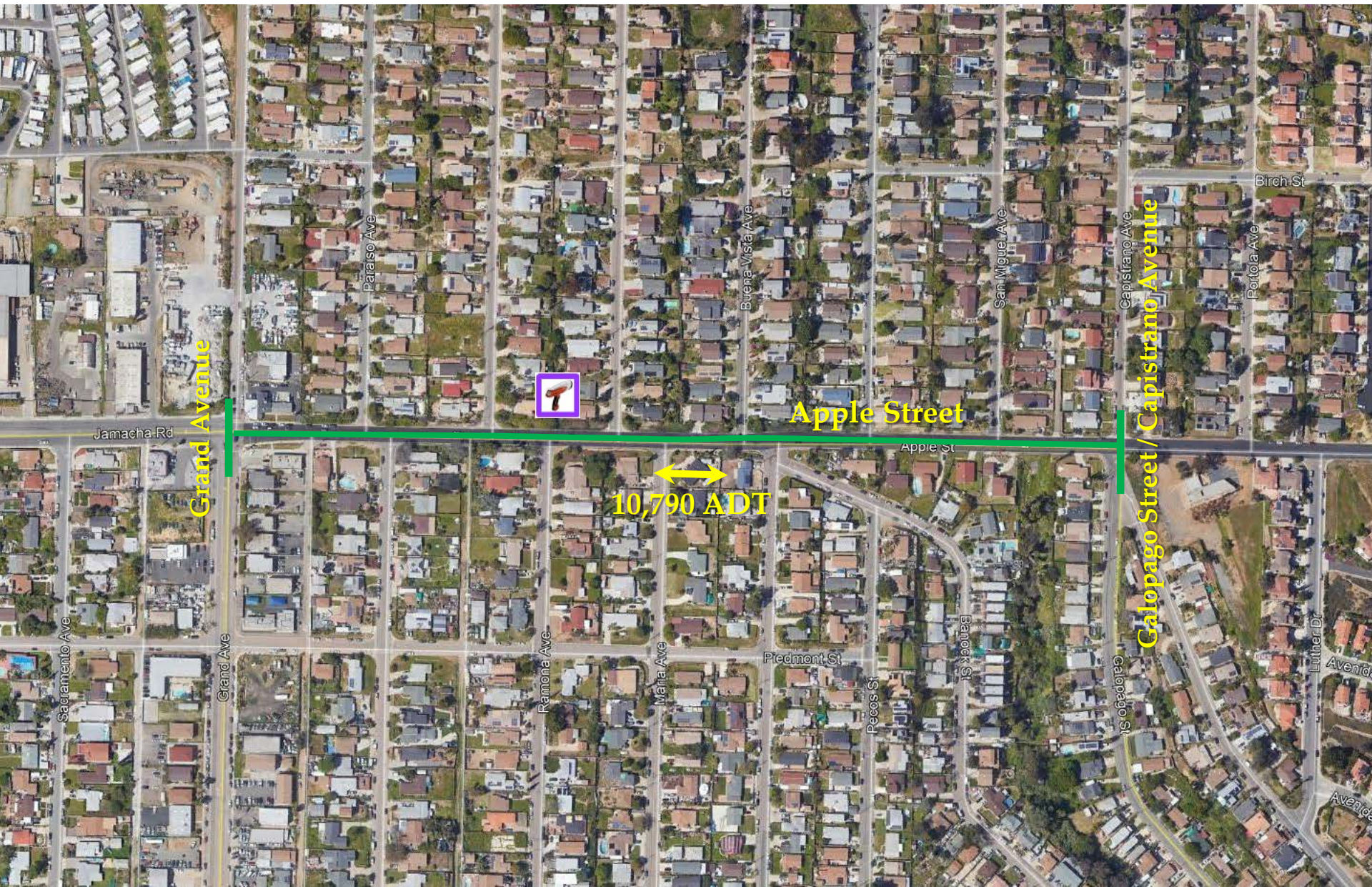
<u>Average Daily Traffic Volumes</u>	<u>10/19</u>	<u>03/12</u>		
Apple Street				
E/o Grand Ave	10,790	11,640		
	<u>85th</u>	<u>10 MPH</u>	<u>% in</u>	
<u>Speed Data</u>	<u>Percentile</u>	<u>Pace</u>	<u>Pace</u>	
Apple Street				
70' W/o Ramona Avenue (2019)	36.8 MPH	28-37	75.0%	
@ Maria Avenue (2012)	38.6 MPH	31-40	69.0%	

Collision Data

There have been 20 reported collisions along this segment of roadway, 7 of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 4.24 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

2-R. Radar Certification

Apple St from Grand Av to Galapago St/ Capistrano St (0.40 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Apple Street	CERTIFICATION DATE	03/11/2020
FROM	Grand Avenue	TO	Galapago Ave/Capistrano St
SEGMENT LENGTH	0.40 miles	AREA	La Presa

Prevailing Speeds: Posted Speed: **40 MPH**

Location	70' W/o Ramona Avenue
Date of Survey	07/17/2019
85th Percentile	36.8 MPH
10 MPH Pace	28 – 37
Percent in Pace	75%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2018)
Total Collisions	20
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	4.24
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	7

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	10,790 vpd	Date Counted	05/22/2019
Number of Lanes	2	Road Striping	Centerline
Mobility Element		Caltrans Urban/Rural	
Road Classification	Light Collector	Classification	Suburban
Roadbed Width	36 feet	Travelled Lane Width	24 feet (12 ft lanes)
Road Curvature	Minor vertical curves	Available Shoulders	6 foot shoulders
Intersecting Roads	Many	Intersecting Driveways	Few
Pedestrian Pathways	None	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



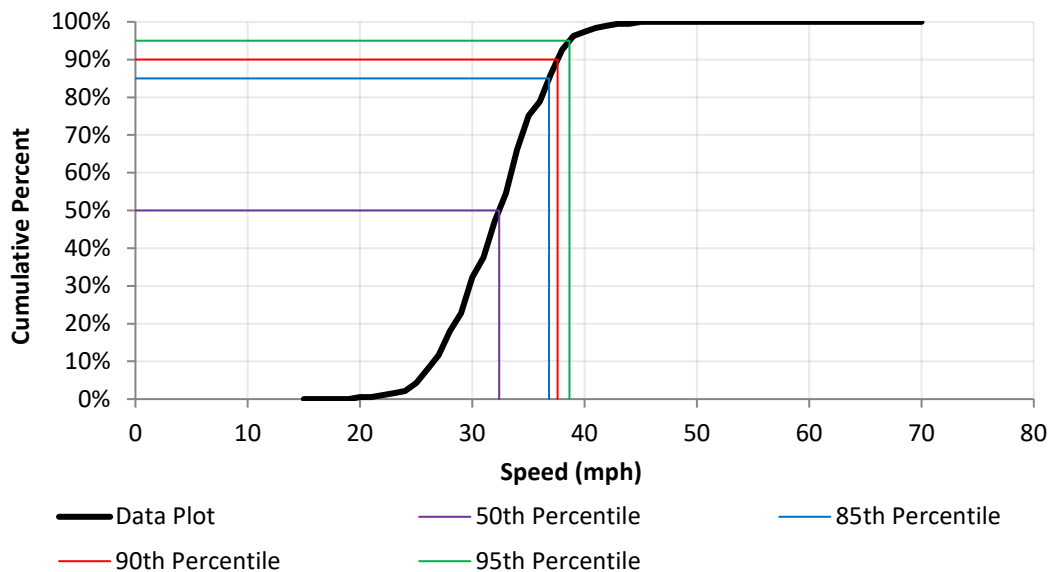
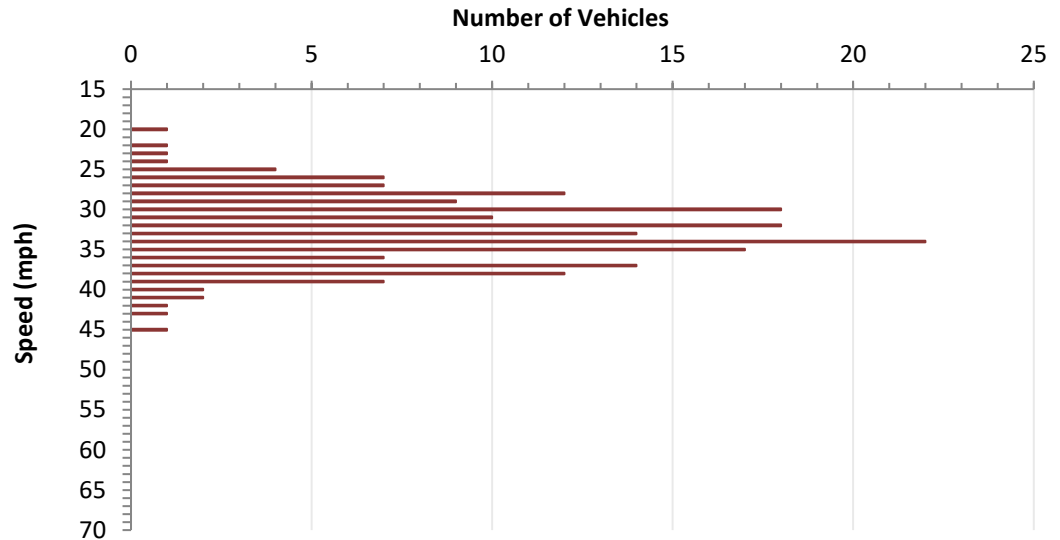
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Apple St	From:	Grand Av	To:	Galapago St
Position:	70' W/o Ramona Av (South Leg)			Direction:	EB/WB

Date:	7/17/2019	Weather:	Clear	Project Number:	0
Time Start:	10:20 AM	Road Condition:	Dry	Observer:	County
Time End:	11:20 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20	1	0.5%
21		
22	1	1.1%
23	1	1.6%
24	1	2.1%
25	4	4.2%
26	7	7.9%
27	7	11.6%
28	12	18.0%
29	9	22.8%
30	18	32.3%
31	10	37.6%
32	18	47.1%
33	14	54.5%
34	22	66.1%
35	17	75.1%
36	7	78.8%
37	14	86.2%
38	12	92.6%
39	7	96.3%
40	2	97.4%
41	2	98.4%
42	1	98.9%
43	1	99.5%
44		
45	1	100.0%
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	189	



DATA ANALYSIS

Average Speed	32.7	Range	20 - 45
50th Percentile	32.4	10 mph Pace	28 - 37
85th Percentile	36.8	Number in Pace	141
90th Percentile	37.6	Percent in Pace	75%
95th Percentile	38.7		

VOLUME

Apple St E/O Grand Ave

Day: Wednesday
Date: 5/22/2019City: Spring Valley
Project #: CA19_4218_007

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0	5,422					5,368	10,790
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			17	12	29		12:00			61	49	110	
00:15			26	8	34		12:15			61	73	134	
00:30			22	10	32		12:30			82	58	140	
00:45			17	82	7	37	12:45			66	270	69	249
					24	119						135	519
01:00			12	5	17		13:00			83	54	137	
01:15			5	8	13		13:15			71	68	139	
01:30			8	4	12		13:30			78	64	142	
01:45			7	32	1	18	13:45			82	314	62	248
					8	50						144	562
02:00			4	6	10		14:00			87	69	156	
02:15			3	4	7		14:15			72	86	158	
02:30			3	2	5		14:30			87	81	168	
02:45			11	21	10	22	14:45			101	347	62	298
					21	43						163	645
03:00			4	8	12		15:00			114	64	178	
03:15			2	14	16		15:15			128	78	206	
03:30			1	16	17		15:30			109	69	178	
03:45			5	12	19	57	15:45			120	471	53	264
					24	69						173	735
04:00			5	13	18		16:00			109	72	181	
04:15			10	24	34		16:15			119	63	182	
04:30			8	23	31		16:30			112	69	181	
04:45			7	30	40	100	16:45			128	468	84	288
					47	130						212	756
05:00			5	65	70		17:00			125	83	208	
05:15			10	87	97		17:15			108	74	182	
05:30			12	100	112		17:30			114	82	196	
05:45			13	40	92	344	17:45			138	485	73	312
					105	384						211	797
06:00			14	111	125		18:00			114	69	183	
06:15			20	122	142		18:15			110	62	172	
06:30			32	122	154		18:30			119	59	178	
06:45			46	112	137	492	18:45			101	444	60	250
					183	604						161	694
07:00			45	133	178		19:00			92	43	135	
07:15			43	106	149		19:15			95	60	155	
07:30			45	119	164		19:30			77	51	128	
07:45			65	198	118	476	19:45			87	351	58	212
					183	674						145	563
08:00			72	91	163		20:00			92	49	141	
08:15			58	94	152		20:15			95	37	132	
08:30			53	93	146		20:30			96	50	146	
08:45			48	231	73	351	20:45			97	380	49	185
					121	582						146	565
09:00			49	77	126		21:00			72	44	116	
09:15			42	81	123		21:15			64	50	114	
09:30			54	77	131		21:30			70	43	113	
09:45			37	182	75	310	21:45			54	260	34	171
					112	492						88	431
10:00			46	76	122		22:00			43	25	68	
10:15			43	64	107		22:15			52	22	74	
10:30			41	67	108		22:30			38	20	58	
10:45			49	179	61	268	22:45			38	171	20	87
					110	447						58	258
11:00			48	71	119		23:00			38	20	58	
11:15			43	69	112		23:15			37	15	52	
11:30			59	60	119		23:30			26	10	36	
11:45			65	215	64	264	23:45			26	127	20	65
					129	479						46	192
TOTALS			1334	2739	4073		TOTALS			4088	2629	6717	
SPLIT %			32.8%	67.2%	37.7%		SPLIT %			60.9%	39.1%	62.3%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						5,422	5,368						10,790
AM Peak Hour			11:45	06:15	06:45		PM Peak Hour			17:00	16:45	16:45							
AM Pk Volume			269	514	674		PM Pk Volume			485	323	798							
Pk Hr Factor			0.820	0.938	0.921		Pk Hr Factor			0.879	0.961	0.941							
7 - 9 Volume	0	0	429	827	1256		4 - 6 Volume	0	0	953	600	1553							
7 - 9 Peak Hour			07:45	07:00	07:00		4 - 6 Peak Hour			17:00	16:45	16:45							
7 - 9 Pk Volume	0	0	248	476	674		4 - 6 Pk Volume	0	0	485	323	798							
Pk Hr Factor	0.000	0.000	0.861	0.895	0.921		Pk Hr Factor	0.000	0.000	0.879	0.961	0.941							

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: December 13, 2019 **Item 2-S**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Speed Limit / Radar Certification

LOCATION: Apple Street from Galapago Avenue / Capistrano Street to Jaeger Drive (a distance of 0.51 miles), SPRING VALLEY (Thos. Bros. 1291-C2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Speed Limit

PROBLEM AS STATED BY REQUESTER:

Apple Street from Galapago Avenue / Capistrano Street to Jaeger Drive is posted 35 MPH. Preliminary review of prevailing speeds and roadway conditions could support radar certification of a 30 MPH speed limit.

Existing Traffic Devices

Apple Street is a striped two-lane through highway with 24 foot travelled way on a 40 foot road bed. There is all-way stop control at the intersection of Capistrano Avenue / Galapago Street on the western end of this segment and yield control at Jaeger Drive on the eastern end of this segment. There is a speed controlled hill advisory The road is unclassified on the County General Plan Mobility Element Network. The road is posted 35 MPH.

Average Daily Traffic Volumes

06/16

Apple Street
E/o Luther Drive

1,719

Speed Data

Apple Street

150' W/o San Bernadino Av (2019)

**85th
Percentile**

32.4 MPH

**10 MPH
Pace**

21-30

**% in
Pace**

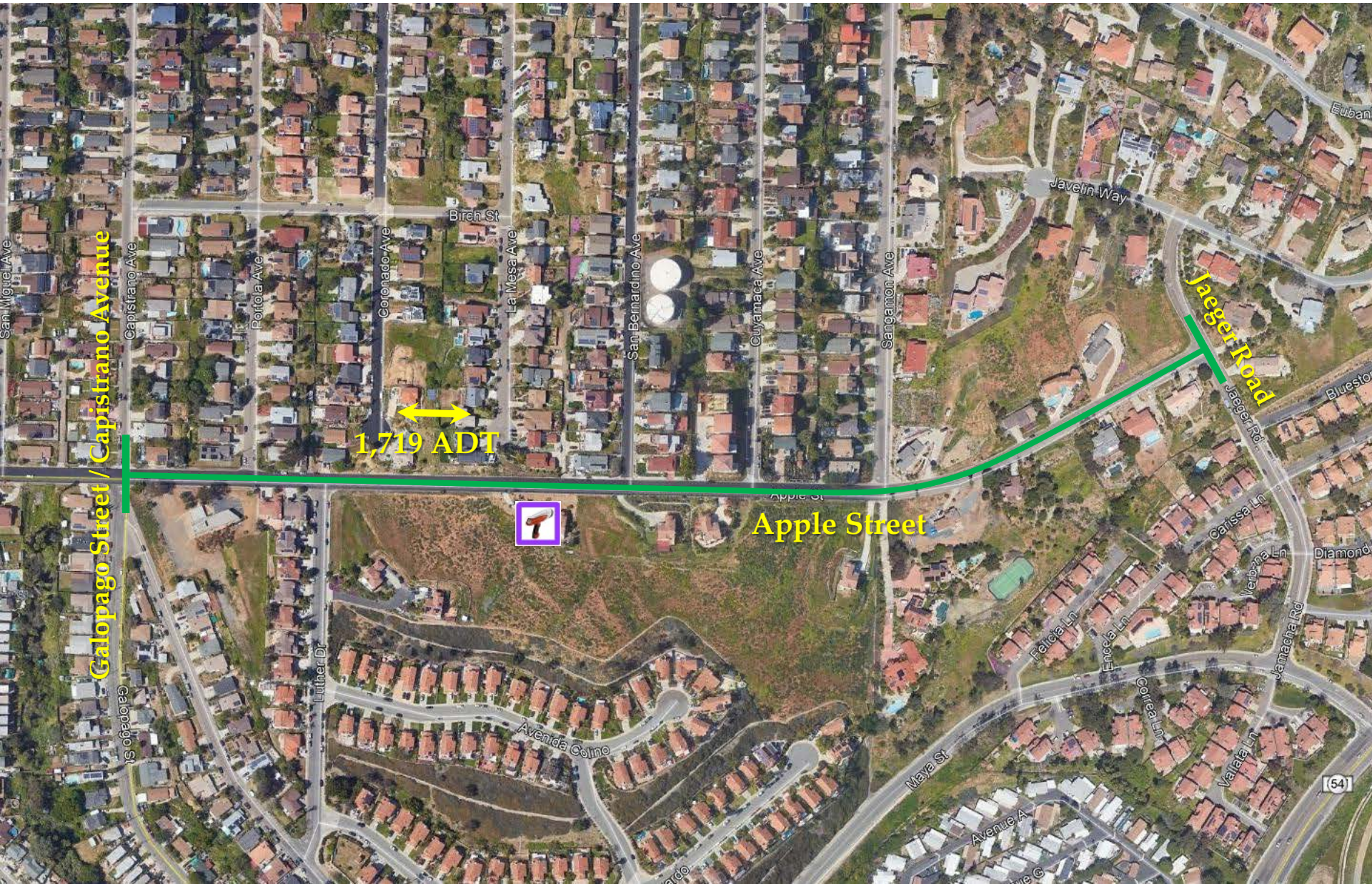
71.0%

Collision Data

There have been 2 reported collisions along this segment of roadway, none of which involved injury, in a 3 year period (08-01-16 to 07-31-19). These collisions result in a segment accident rate of 0.67 collisions per million vehicle miles. The statewide average is 1.8 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed less than 45 mph.

2-S. Radar Certification

Apple St from Grand Av to Galapago St/ Capistrano St (0.51 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Apple Street	CERTIFICATION DATE	03/11/2020
FROM	Galapago Ave/Capistrano St	TO	Jaeger Drive
SEGMENT LENGTH	0.51 miles	AREA	La Presa

Prevailing Speeds: Posted Speed: **35 MPH**

Location	150' W/o San Bernardino Avenue
Date of Survey	10/30/2019
85th Percentile	32.4 MPH
10 MPH Pace	21 – 30
Percent in Pace	71%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2018)
Total Collisions	2
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	0.67
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	0

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	1,719 vpd	Date Counted	06/21/2016
Number of Lanes	2	Road Striping	Centerline
Mobility Element		Caltrans Urban/Rural	
Road Classification	Unclassified	Classification	Suburban
Roadbed Width	40 feet	Travelled Lane Width	24 feet (12 ft lanes)
Road Curvature	Curvilinear	Available Shoulders	8 foot shoulders
Intersecting Roads	Several	Intersecting Driveways	Some
Pedestrian Pathways	Minimal sidewalk	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



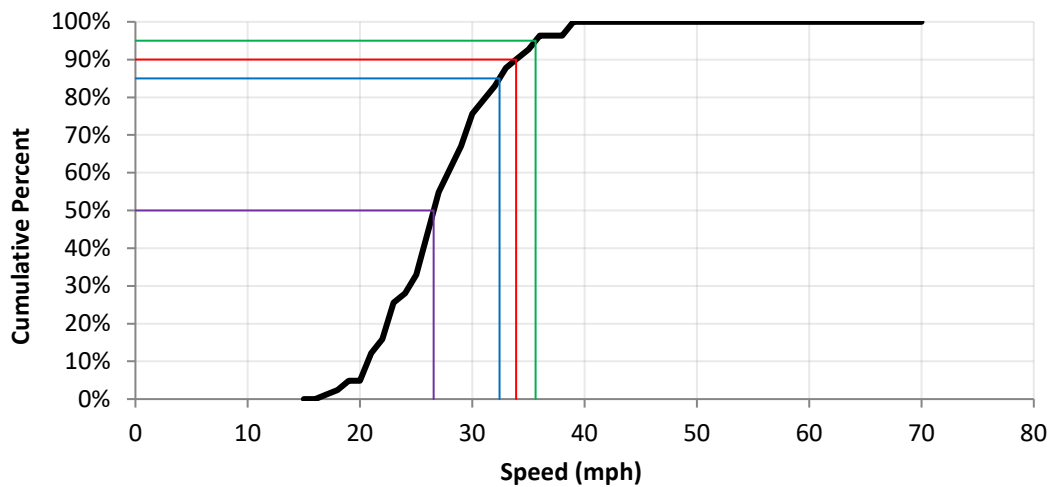
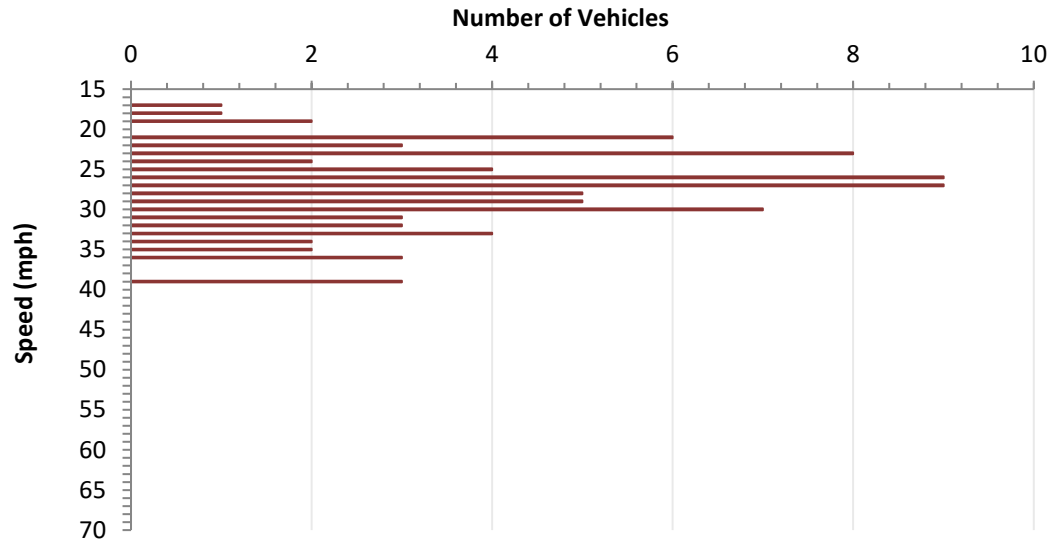
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Apple St	From:	Galapago St	To:	Jaeger Rd
Position:	150' W/o San Bernadino Av			Direction:	EB/WB

Date:	10/30/2019	Weather:	Clear	Project Number:	N/A
Time Start:	9:15 AM	Road Condition:	Dry	Observer:	County
Time End:	11:15 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17	1	1.2%
18	1	2.4%
19	2	4.9%
20		
21	6	12.2%
22	3	15.9%
23	8	25.6%
24	2	28.0%
25	4	32.9%
26	9	43.9%
27	9	54.9%
28	5	61.0%
29	5	67.1%
30	7	75.6%
31	3	79.3%
32	3	82.9%
33	4	87.8%
34	2	90.2%
35	2	92.7%
36	3	96.3%
37		
38		
39	3	100.0%
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	82	



— Data Plot
 — 50th Percentile
 — 85th Percentile
— 90th Percentile
 — 95th Percentile

DATA ANALYSIS

Average Speed	27.5	Range	17 - 39
50th Percentile	26.6	10 mph Pace	21 - 30
85th Percentile	32.4	Number in Pace	58
90th Percentile	33.9	Percent in Pace	71%
95th Percentile	35.6		

VOLUME
Apple St 275' e/o Luther Dr

Day: Tuesday
Date: 6/21/2016

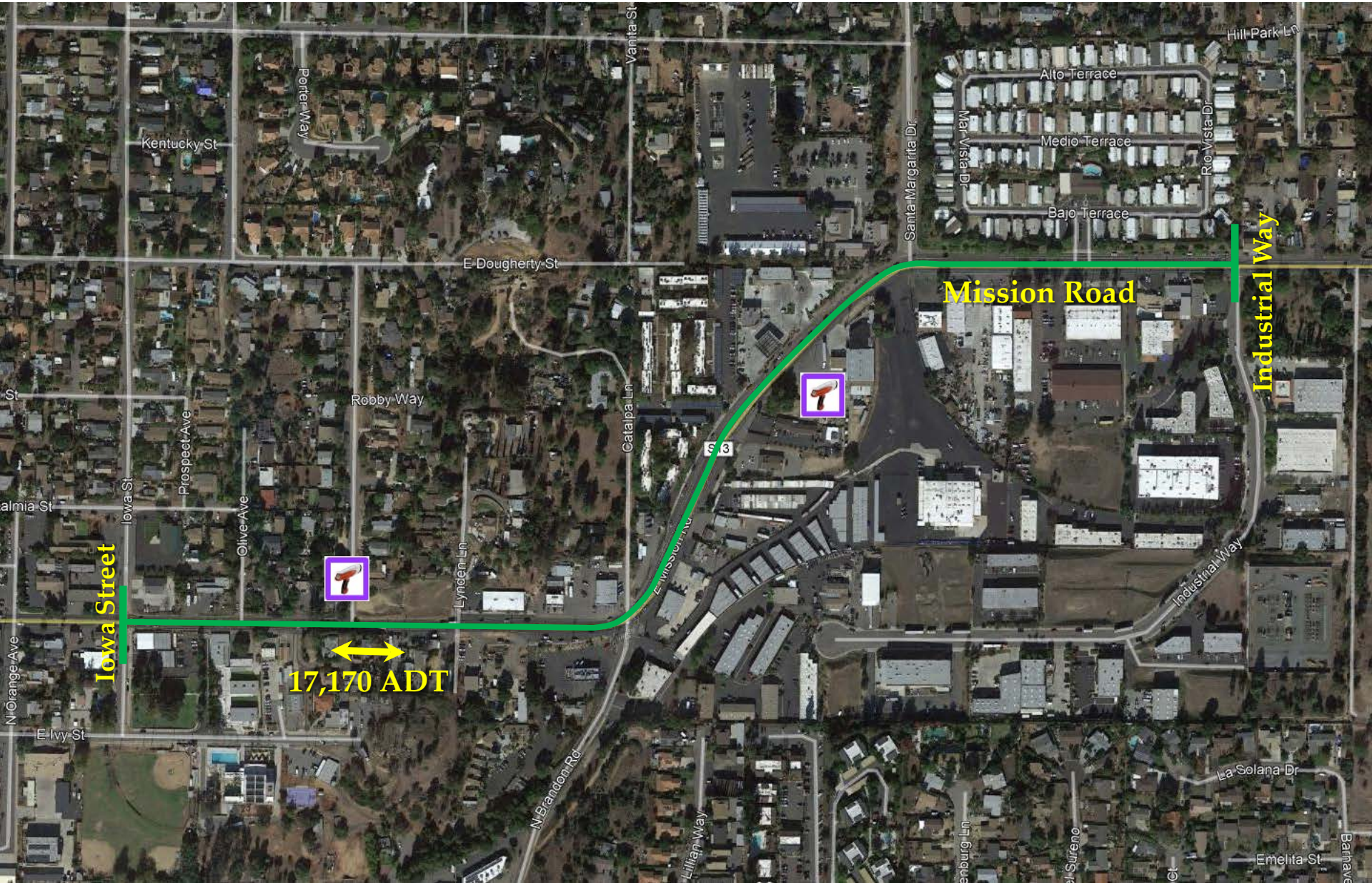
City: Spring Valley
Project #: CA16_4173_002

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						821	898	1,719	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	4	0	4		12:00	0	0	12	11	23			
00:15	0	0	1	1	2		12:15	0	0	10	14	24			
00:30	0	0	2	5	7		12:30	0	0	12	12	24			
00:45	0	0	2	9	2	8	12:45	0	0	15	49	15	52	30	101
01:00	0	0	2	2	4		13:00	0	0	10	5	15			
01:15	0	0	2	3	5		13:15	0	0	11	14	25			
01:30	0	0	2	0	2		13:30	0	0	9	8	17			
01:45	0	0	4	10	1	6	13:45	0	0	10	40	12	39	22	79
02:00	0	0	0	2	2		14:00	0	0	12	13	25			
02:15	0	0	1	1	2		14:15	0	0	15	14	29			
02:30	0	0	0	0	0		14:30	0	0	7	14	21			
02:45	0	0	1	2	0	3	14:45	0	0	18	52	11	52	29	104
03:00	0	0	0	1	1		15:00	0	0	18	5	23			
03:15	0	0	1	1	2		15:15	0	0	14	13	27			
03:30	0	0	0	2	2		15:30	0	0	18	14	32			
03:45	0	0	0	1	2	6	15:45	0	0	13	63	9	41	22	104
04:00	0	0	1	2	3		16:00	0	0	18	8	26			
04:15	0	0	0	3	3		16:15	0	0	18	15	33			
04:30	0	0	0	5	5		16:30	0	0	15	19	34			
04:45	0	0	0	1	4	14	16:45	0	0	14	65	18	60	32	125
05:00	0	0	0	10	10		17:00	0	0	19	13	32			
05:15	0	0	2	15	17		17:15	0	0	17	13	30			
05:30	0	0	0	7	7		17:30	0	0	27	18	45			
05:45	0	0	1	3	14	46	17:45	0	0	15	78	14	58	29	136
06:00	0	0	3	16	19		18:00	0	0	18	7	25			
06:15	0	0	2	14	16		18:15	0	0	20	12	32			
06:30	0	0	5	20	25		18:30	0	0	13	10	23			
06:45	0	0	5	15	19	69	18:45	0	0	19	70	3	32	22	102
07:00	0	0	5	16	21		19:00	0	0	17	9	26			
07:15	0	0	5	26	31		19:15	0	0	17	9	26			
07:30	0	0	4	11	15		19:30	0	0	15	7	22			
07:45	0	0	12	26	16	69	19:45	0	0	16	65	11	36	27	101
08:00	0	0	8	13	21		20:00	0	0	16	9	25			
08:15	0	0	5	21	26		20:15	0	0	17	12	29			
08:30	0	0	5	9	14		20:30	0	0	8	5	13			
08:45	0	0	13	31	17	60	20:45	0	0	12	53	6	32	18	85
09:00	0	0	7	13	20		21:00	0	0	6	6	12			
09:15	0	0	8	17	25		21:15	0	0	13	10	23			
09:30	0	0	8	17	25		21:30	0	0	14	9	23			
09:45	0	0	8	31	19	66	21:45	0	0	6	39	5	30	11	69
10:00	0	0	12	16	28		22:00	0	0	12	3	15			
10:15	0	0	8	8	16		22:15	0	0	9	3	12			
10:30	0	0	9	11	20		22:30	0	0	9	4	13			
10:45	0	0	14	43	9	44	22:45	0	0	6	36	2	12	8	48
11:00	0	0	7	18	25		23:00	0	0	3	4	7			
11:15	0	0	5	6	11		23:15	0	0	4	0	4			
11:30	0	0	5	12	17		23:30	0	0	6	5	11			
11:45	0	0	5	22	15	51	23:45	0	0	4	17	3	12	7	29
TOTALS	194				442	636	TOTALS	627				456	1083		
SPLIT %	30.5%				69.5%	37.0%	SPLIT %	57.9%				42.1%	63.0%		

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						821	898	1,719	
AM Peak Hour	10:00				06:30	09:15	PM Peak Hour	17:30				16:15	16:45		
AM Pk Volume	43				81	105	PM Pk Volume	70				65	139		
Pk Hr Factor	0.768				0.779	0.938	Pk Hr Factor	0.875				0.861	0.772		
7 - 9 Volume	0	0	57	129	186		4 - 6 Volume	0	0	143	118	261			
7 - 9 Peak Hour	08:00				07:00	07:00	4 - 6 Peak Hour	17:00				16:15	16:45		
7 - 9 Pk Volume	0	0	31	69	95		4 - 6 Pk Volume	0	0	78	65	139			
Pk Hr Factor	0.000	0.000	0.596	0.663	0.766		Pk Hr Factor	0.000	0.000	0.722	0.855	0.772			

5-A. Radar Certification

Mission Rd from Iowa St to Industrial Wy (0.72 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Mission Rd	CERTIFICATION DATE	20/26/2020
FROM	Iowa St	TO	Industrial Way
SEGMENT LENGTH	0.72 miles	AREA	Fallbrook

Prevailing Speeds: Posted Speed: **35 MPH**

Location	@ Minnesota Ave	725' E/o Brandon Rd	Speed Zone
Date of Survey	09/25/2019	10/12/2019	10/12/2019
85 th Percentile	38.3 MPH	40.6 MPH	39.5 MPH
10 MPH Pace	30-39	33-42	35-38
Percent in Pace	83%	86%	84.5%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	34
Statewide Average Collision Rate	1.80
Collisions per Million Vehicle Miles	2.52
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	12

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	17,170 vpd	Date Counted	09/25/2019
Number of Lanes	2	Road Striping	Center, Edge Lines, Bike Lanes
Mobility Element	Light Collector	Caltrans Urban/Rural Classification	Suburban
Road Classification	& Boulevard	Travelled Lane Width	24-40 ft
Roadbed Width	36-60 ft	Available Shoulders	0-26 ft
Road Curvature	Curvilinear	Intersecting Driveways	Some
Intersecting Roads	Many	Bike Lane/Route	Yes
Pedestrian Pathways	None		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **35 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



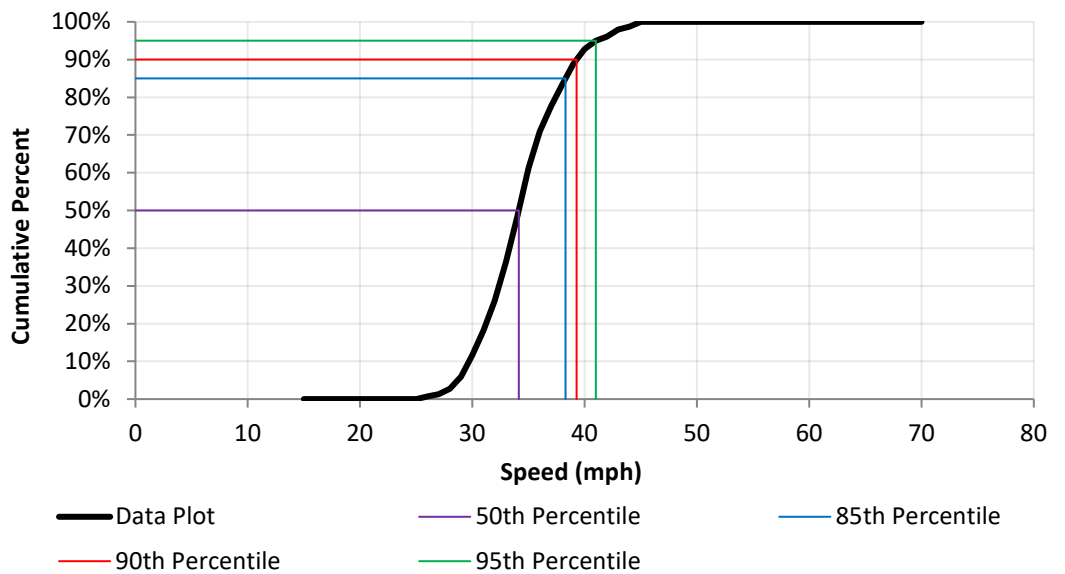
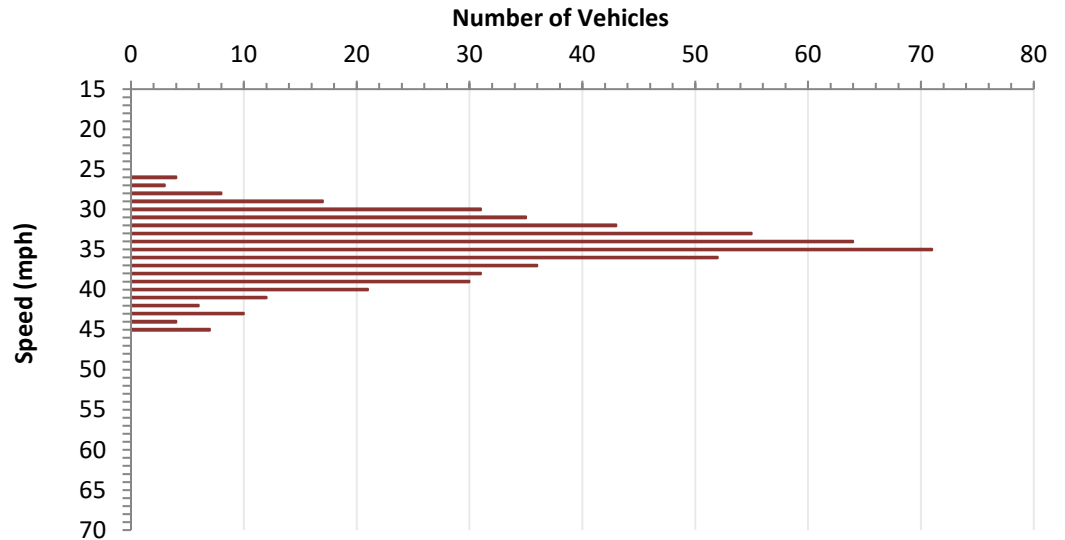
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mission Rd	From:	Iowa St	To:	Industrial Way
Position:	@ Minnesota Av	Direction:	EB/WB		

Date:	9/25/2019	Weather:	Clear	Project Number:	19-4363-005
Time Start:	9:30 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:30 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	4	0.7%
27	3	1.3%
28	8	2.8%
29	17	5.9%
30	31	11.7%
31	35	18.1%
32	43	26.1%
33	55	36.3%
34	64	48.1%
35	71	61.3%
36	52	70.9%
37	36	77.6%
38	31	83.3%
39	30	88.9%
40	21	92.8%
41	12	95.0%
42	6	96.1%
43	10	98.0%
44	4	98.7%
45	7	100.0%
46		
47		
48		
49		
50		
51		
52		
53		
54		
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56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	540	



DATA ANALYSIS

Average Speed	34.9	Range	26 - 45
50th Percentile	34.1	10 mph Pace	30 - 39
85th Percentile	38.3	Number in Pace	448
90th Percentile	39.3	Percent in Pace	83%
95th Percentile	41.0		

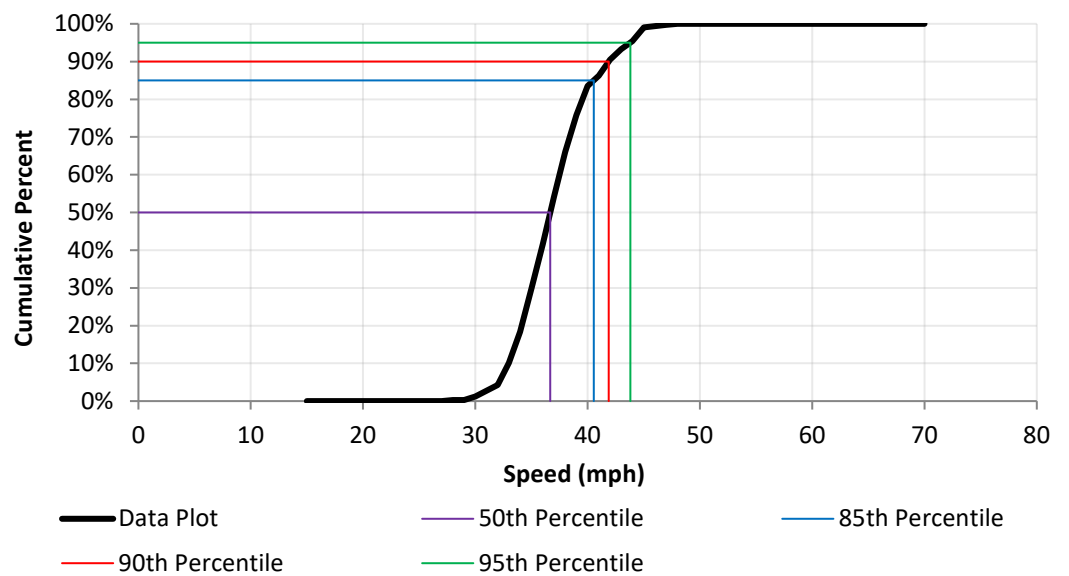
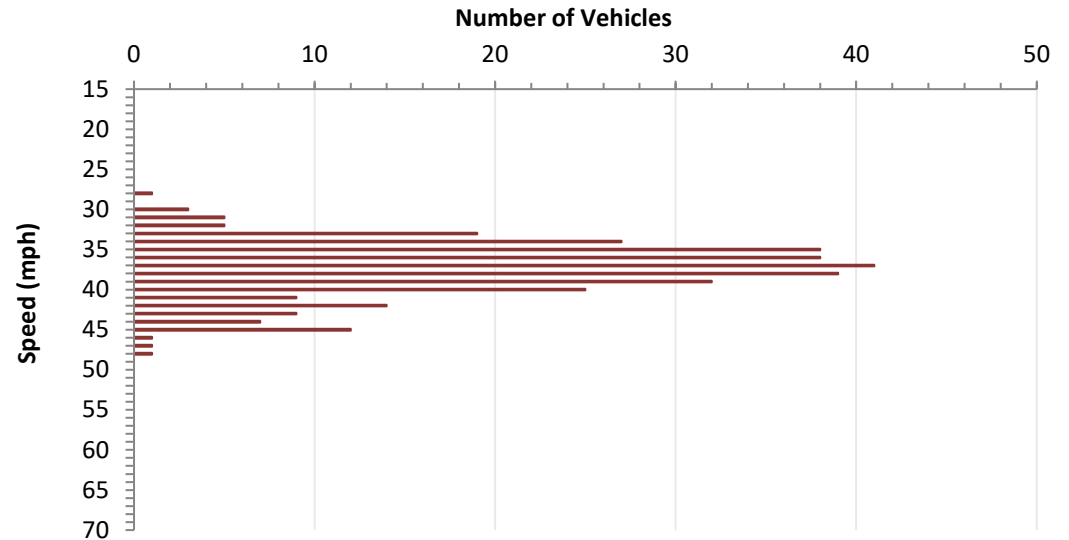


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mission Rd	From:	Iowa St	To:	Industrial Way
Position:	725' EO Brandon Rd	Direction:	EB/WB		
Date:	10/2/2019	Weather:	Clear	Project Number:	19-4363-007
Time Start:	9:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:15 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	1	0.3%
29		
30	3	1.2%
31	5	2.8%
32	5	4.3%
33	19	10.1%
34	27	18.3%
35	38	30.0%
36	38	41.6%
37	41	54.1%
38	39	66.1%
39	32	75.8%
40	25	83.5%
41	9	86.2%
42	14	90.5%
43	9	93.3%
44	7	95.4%
45	12	99.1%
46	1	99.4%
47	1	99.7%
48	1	100.0%
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	327	



DATA ANALYSIS

Average Speed	37.5	Range	28 - 48
50th Percentile	36.7	10 mph Pace	33 - 42
85th Percentile	40.6	Number in Pace	282
90th Percentile	41.9	Percent in Pace	86%
95th Percentile	43.8		

VOLUME

Mission Rd 350' W/O Minnesota Ave

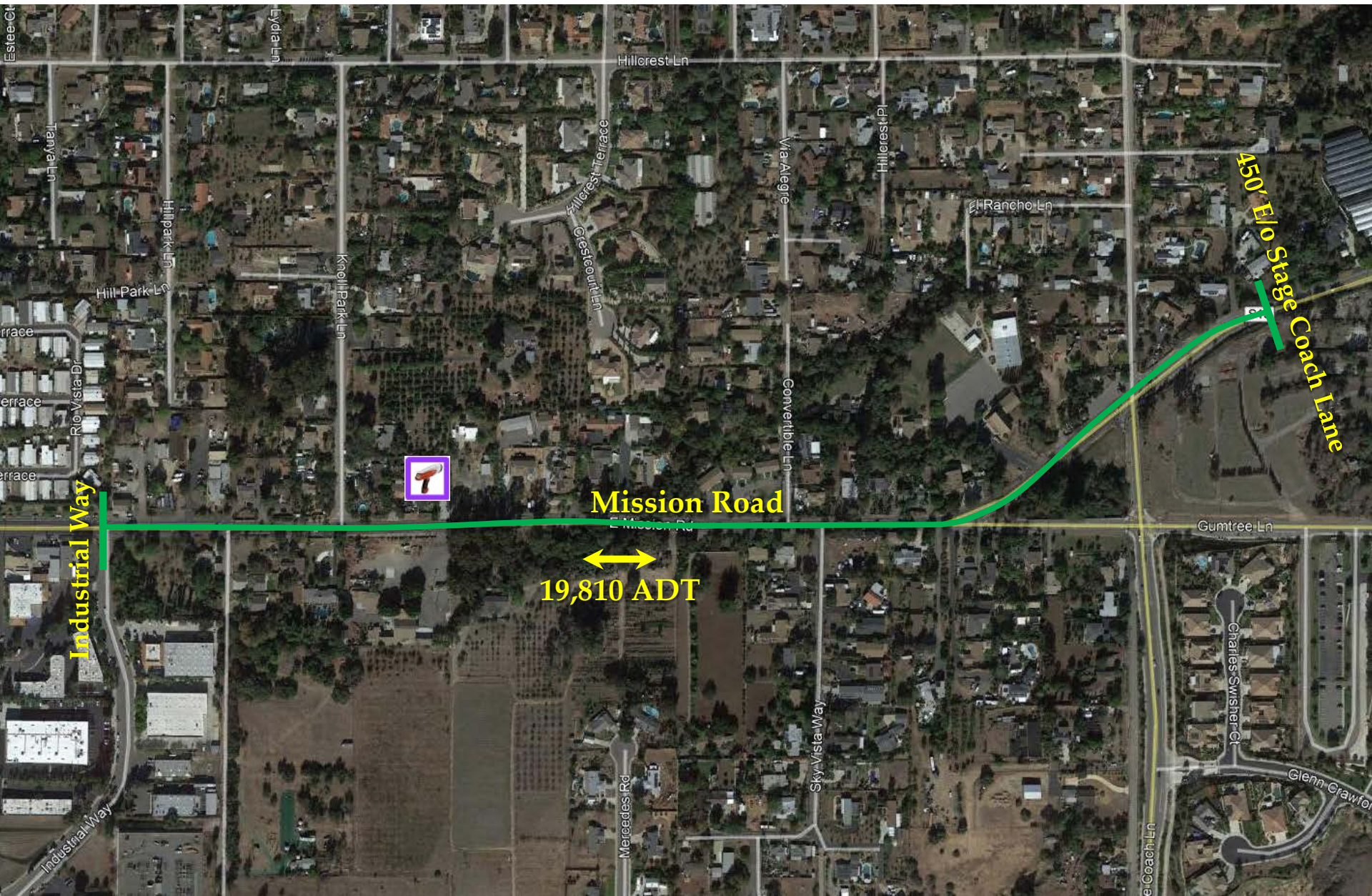
Day: Wednesday
Date: 9/25/2019City: Fallbrook
Project #: CA19_4362_006

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						8,167	9,003						17,170
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
0:00			5	14	19		12:00			130	111	241							
0:15			12	10	22		12:15			167	121	288							
0:30			5	11	16		12:30			120	107	227							
0:45			6	28	6	41	12:45			141	558	120	459	261	1017				
1:00			3	8	11		13:00			121	109	230							
1:15			4	9	13		13:15			145	139	284							
1:30			10	10	20		13:30			105	136	241							
1:45			9	26	6	33	13:45			174	545	117	501	291	1046				
2:00			8	7	15		14:00			144	121	265							
2:15			11	4	15		14:15			144	130	274							
2:30			9	7	16		14:30			147	128	275							
2:45			5	33	10	28	14:45			152	587	149	528	301	1115				
3:00			7	7	14		15:00			140	119	259							
3:15			8	16	24		15:15			170	140	310							
3:30			11	25	36		15:30			151	149	300							
3:45			9	35	28	76	15:45			174	635	143	551	317	1186				
4:00			19	24	43		16:00			177	133	310							
4:15			14	39	53		16:15			180	132	312							
4:30			27	76	103		16:30			175	147	322							
4:45			45	105	102	241	16:45			164	696	133	545	297	1241				
5:00			42	110	152		17:00			156	125	281							
5:15			36	109	145		17:15			171	156	327							
5:30			55	137	192		17:30			148	169	317							
5:45			73	206	153	509	17:45			166	641	127	577	293	1218				
6:00			80	158	238		18:00			154	105	259							
6:15			75	168	243		18:15			136	102	238							
6:30			101	125	226		18:30			158	125	283							
6:45			109	365	172	623	18:45			121	569	104	436	225	1005				
7:00			106	217	323		19:00			106	87	193							
7:15			116	206	322		19:15			106	78	184							
7:30			131	184	315		19:30			107	86	193							
7:45			115	468	229	836	19:45			89	408	45	296	134	704				
8:00			118	224	342		20:00			79	61	140							
8:15			95	198	293		20:15			57	57	114							
8:30			101	140	241		20:30			76	64	140							
8:45			109	423	140	702	20:45			64	276	37	219	101	495				
9:00			87	118	205		21:00			49	52	101							
9:15			99	100	199		21:15			47	43	90							
9:30			104	92	196		21:30			31	48	79							
9:45			75	365	146	456	21:45			34	161	29	172	63	333				
10:00			96	127	223		22:00			28	36	64							
10:15			119	111	230		22:15			34	19	53							
10:30			101	140	241		22:30			25	31	56							
10:45			94	410	115	493	22:45			14	101	17	103	31	204				
11:00			114	111	225		23:00			21	20	41							
11:15			117	134	251		23:15			12	13	25							
11:30			123	134	257		23:30			15	15	30							
11:45			110	464	132	511	23:45			14	62	19	67	33	129				
TOTALS			2928	4549	7477		TOTALS			5239	4454	9693							
SPLIT %			39.2%	60.8%	43.5%		SPLIT %			54.0%	46.0%	56.5%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						8,167	9,003						17,170
AM Peak Hour			11:30	7:15	7:15		PM Peak Hour			15:45	16:45	15:45							
AM Pk Volume			530	843	1323		PM Pk Volume			706	583	1261							
Pk Hr Factor			0.793	0.920	0.961		Pk Hr Factor			0.981	0.862	0.979							
7 - 9 Volume	0	0	891	1538	2429		4 - 6 Volume	0	0	1337	1122	2459							
7 - 9 Peak Hour			7:15	7:15	7:15		4 - 6 Peak Hour			16:00	16:45	16:00							
7 - 9 Pk Volume	0	0	480	843	1323		4 - 6 Pk Volume	0	0	696	583	1241							
Pk Hr Factor	0.000	0.000	0.916	0.920	0.961		Pk Hr Factor	0.000	0.000	0.967	0.862	0.964							

5-B. Radar Certification

Mission Rd from Industrial Wy to 450' E/o Stage Coach Ln (0.68 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Mission Rd	CERTIFICATION DATE	02/26/2020
FROM	Industrial Way	TO	450' E/o Stage Coach Ln
SEGMENT LENGTH	0.68 miles	AREA	Fallbrook

Prevailing Speeds: Posted Speed: **45 MPH**

Location	200' E/o Knoll Park Ln
Date of Survey	10/02/2019
85 th Percentile	47.7 MPH
10 MPH Pace	39-48
Percent in Pace	79%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	27
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	1.85
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	16

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	19,810 vpd	Date Counted	9/25/2019
Number of Lanes	2	Road Striping	Center, Edge Lines, Bike Lanes
Mobility Element	Boulevard	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	24 -36 ft
Roadbed Width	32-56 ft	Available Shoulders	0 ft
Road Curvature	Curvilinear	Intersecting Driveways	Some
Intersecting Roads	Minimal	Bike Lane/Route	Yes
Pedestrian Pathways	No		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date

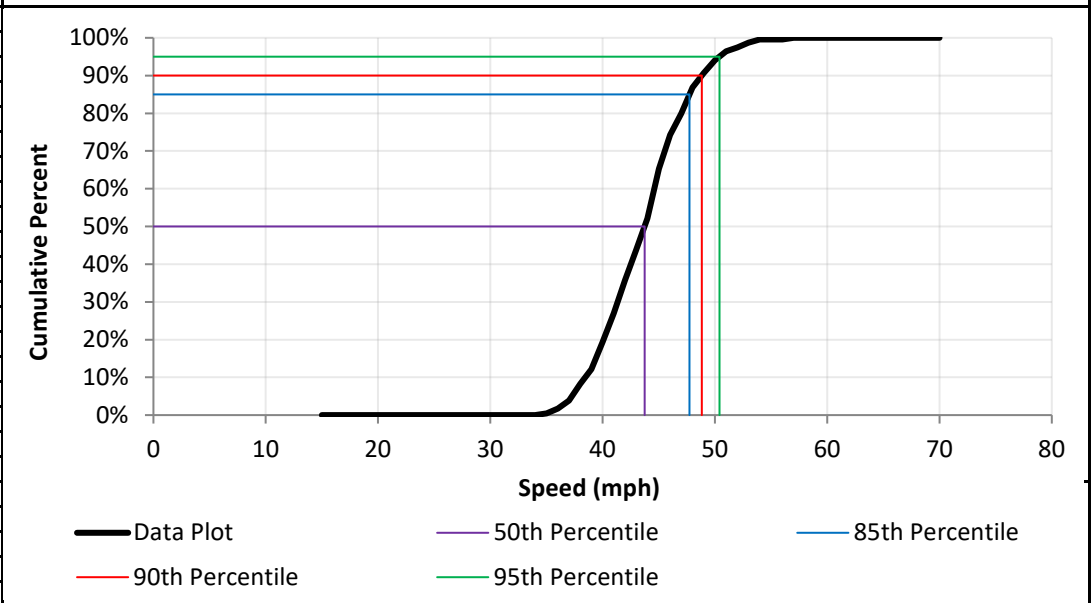
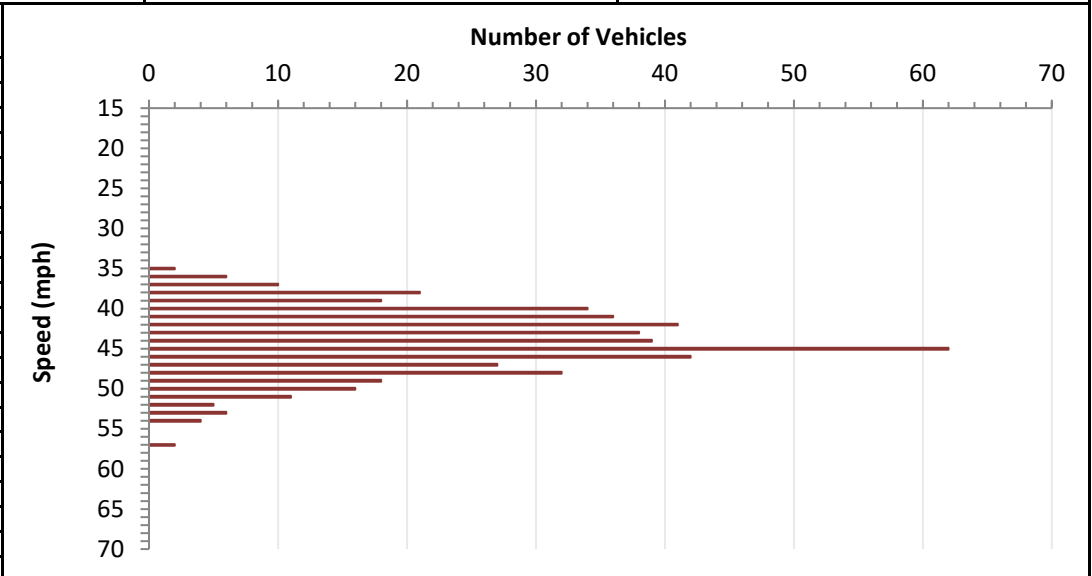


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mission Rd	From:	Industrial Way	To:	450' EO Stage Coach Ln
Position:	200' EO Knoll Park Ln	Direction:	EB/WB		
Date:	10/2/2019	Weather:	Clear	Project Number:	19-4363-006
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	2	0.4%
36	6	1.7%
37	10	3.8%
38	21	8.3%
39	18	12.1%
40	34	19.4%
41	36	27.0%
42	41	35.7%
43	38	43.8%
44	39	52.1%
45	62	65.3%
46	42	74.3%
47	27	80.0%
48	32	86.8%
49	18	90.6%
50	16	94.0%
51	11	96.4%
52	5	97.4%
53	6	98.7%
54	4	99.6%
55		
56		
57	2	100.0%
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	470	



DATA ANALYSIS			
Average Speed	44.1	Range	35 - 57
50th Percentile	43.7	10 mph Pace	39 - 48
85th Percentile	47.7	Number in Pace	369
90th Percentile	48.8	Percent in Pace	79%
95th Percentile	50.4		

VOLUME

Mission Rd 150' E/O Stage Coach Ln

Day: Wednesday
Date: 9/25/2019City: Fallbrook
Project #: CA19_4362_005

DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						9,748	10,062	19,810
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL		
0:00			10	17	27		12:00			148	105	253		
0:15			14	12	26		12:15			157	134	291		
0:30			12	12	24		12:30			121	115	236		
0:45			7	43	21	62	12:45			161	587	138	492	1079
1:00			4	16	20		13:00			116	118	234		
1:15			6	9	15		13:15			153	138	291		
1:30			13	8	21		13:30			158	119	277		
1:45			9	32	7	40	13:45			156	583	139	514	1097
2:00			8	10	18		14:00			165	146	311		
2:15			14	6	20		14:15			180	134	314		
2:30			13	14	27		14:30			199	152	351		
2:45			6	41	13	43	14:45			167	711	160	592	1303
3:00			7	6	13		15:00			179	158	337		
3:15			12	18	30		15:15			216	183	399		
3:30			19	36	55		15:30			237	144	381		
3:45			23	61	24	84	15:45			181	813	163	648	1461
4:00			29	30	59		16:00			197	136	333		
4:15			22	56	78		16:15			203	147	350		
4:30			40	85	125		16:30			203	157	360		
4:45			40	131	116	287	16:45			194	797	147	587	1384
5:00			80	110	190		17:00			205	150	355		
5:15			61	132	193		17:15			218	181	399		
5:30			108	135	243		17:30			174	151	325		
5:45			102	351	172	549	17:45			176	773	112	594	1367
6:00			119	152	271		18:00			165	126	291		
6:15			120	188	308		18:15			166	145	311		
6:30			139	167	306		18:30			145	138	283		
6:45			150	528	198	705	18:45			153	629	113	522	1151
7:00			137	239	376		19:00			131	84	215		
7:15			147	207	354		19:15			119	95	214		
7:30			153	231	384		19:30			89	85	174		
7:45			123	560	296	973	19:45			80	419	51	315	734
8:00			131	268	399		20:00			85	72	157		
8:15			145	195	340		20:15			57	75	132		
8:30			123	161	284		20:30			64	64	128		
8:45			148	547	170	794	20:45			53	259	51	262	521
9:00			115	134	249		21:00			61	59	120		
9:15			121	120	241		21:15			33	66	99		
9:30			124	128	252		21:30			36	57	93		
9:45			115	475	131	513	21:45			28	158	56	238	396
10:00			118	122	240		22:00			23	38	61		
10:15			135	115	250		22:15			43	40	83		
10:30			125	141	266		22:30			24	41	65		
10:45			134	512	135	513	22:45			16	106	23	142	248
11:00			132	106	238		23:00			18	26	44		
11:15			145	132	277		23:15			16	25	41		
11:30			145	122	267		23:30			16	25	41		
11:45			140	562	128	488	23:45			20	70	29	105	175
TOTALS			3843	5051	8894		TOTALS			5905	5011	10916		
SPLIT %			43.2%	56.8%	44.9%		SPLIT %			54.1%	45.9%	55.1%		

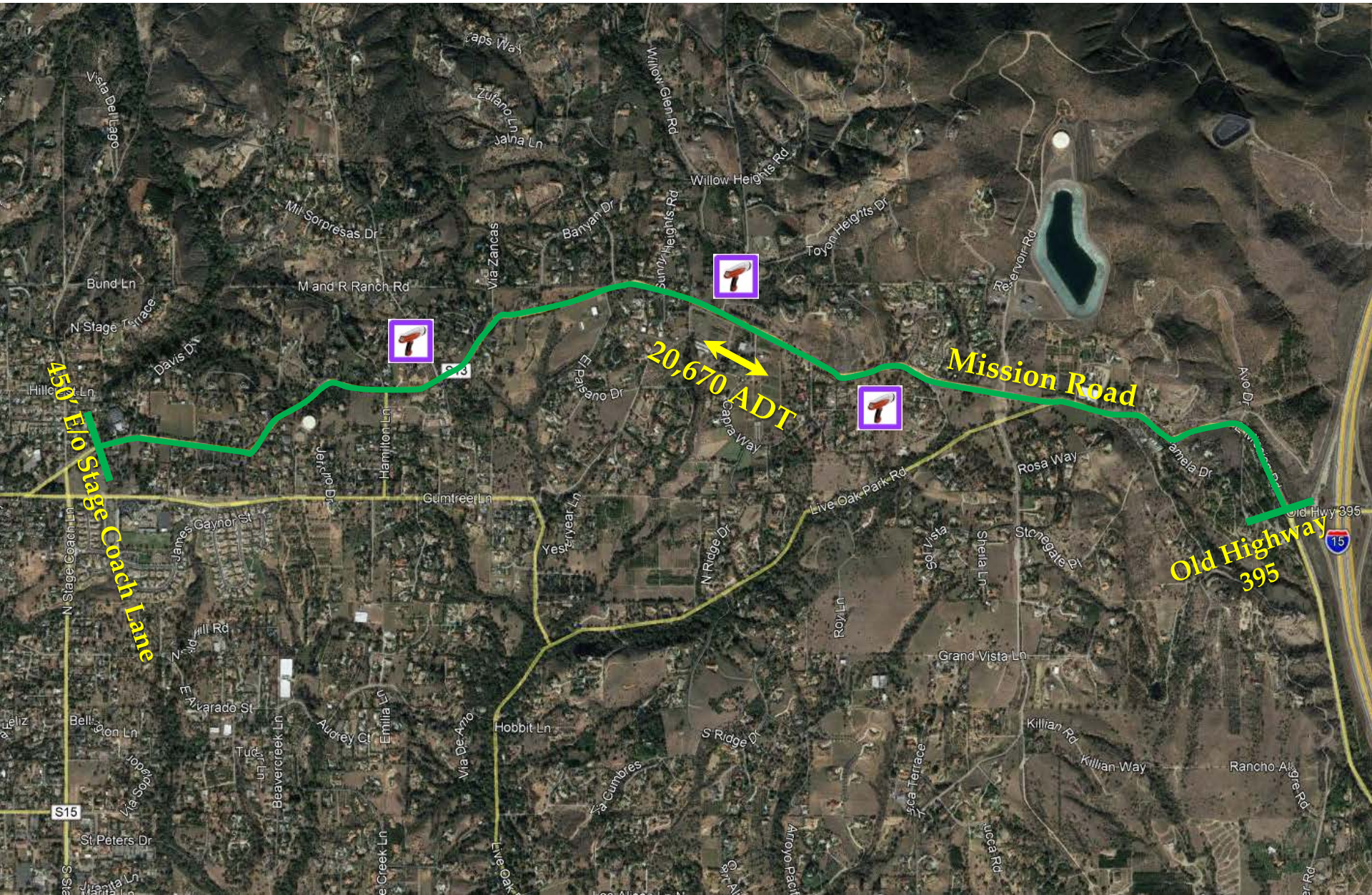
DAILY TOTALS					NB	SB						EB	WB	Total
					0	0						9,748	10,062	19,810
AM Peak Hour			11:30	7:15	7:15		PM Peak Hour			15:15	14:30	15:00		
AM Pk Volume			590	1002	1556		PM Pk Volume			831	653	1461		
Pk Hr Factor			0.939	0.846	0.928		Pk Hr Factor			0.877	0.892	0.915		
7 - 9 Volume	0	0	1107	1767	2874		4 - 6 Volume	0	0	1570	1181	2751		
7 - 9 Peak Hour			7:00	7:15	7:15		4 - 6 Peak Hour			16:30	16:30	16:30		
7 - 9 Pk Volume	0	0	560	1002	1556		4 - 6 Pk Volume	0	0	820	635	1455		
Pk Hr Factor	0.000	0.000	0.915	0.846	0.928		Pk Hr Factor	0.000	0.000	0.940	0.877	0.912		

5-C. Radar Certification

Mission Rd from 450' E/o Stage Coach Ln to Old Highway 395 (3.27 miles)

5-C. Radar Certification

Mission Rd from 450' E/o Stage Coach Ln to Old Highway 395 (3.27 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Mission Rd	CERTIFICATION DATE	02/26/2019
FROM	450' E/O Stage Coach Ln	TO	Old Highway 395
SEGMENT LENGTH	3.27 miles	AREA	Fallbrook

Prevailing Speeds: Posted Speed: **45 MPH**

Location	@ Riverview Dr	@ Las Vistas Rd	200' E/o Sunny Heights Rd	Speed Zone
Date of Survey	05/15/2019	05/15/2019	05/15/2019	05/15/2019
85 th Percentile	46.4 MPH	37.9 MPH	50.6 MPH	45.0 MPH
10 MPH Pace	38-47	31-40	43-52	37-46
Percent in Pace	84%	91%	79%	84.7%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	91
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	1.23
Number of Collisions with Fatalities	1
Number of Collisions with Injuries	39

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	20,670 vpd	Date Counted	05/15/2019
Number of Lanes	2	Road Striping	Center, Edge Lines, Bike Lanes
Mobility Element	Boulevard	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	24 - 40 ft
Roadbed Width	36 – 48 ft	Available Shoulders	0
Road Curvature	Curvilinear	Intersecting Driveways	Some
Intersecting Roads	Many	Bike Lane/Route	Yes
Pedestrian Pathways	None		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



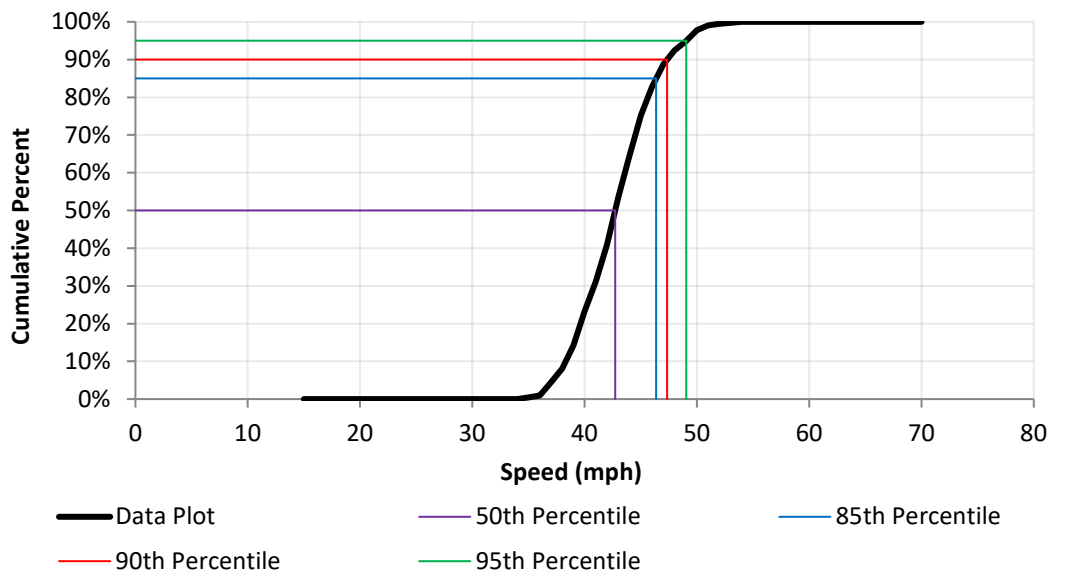
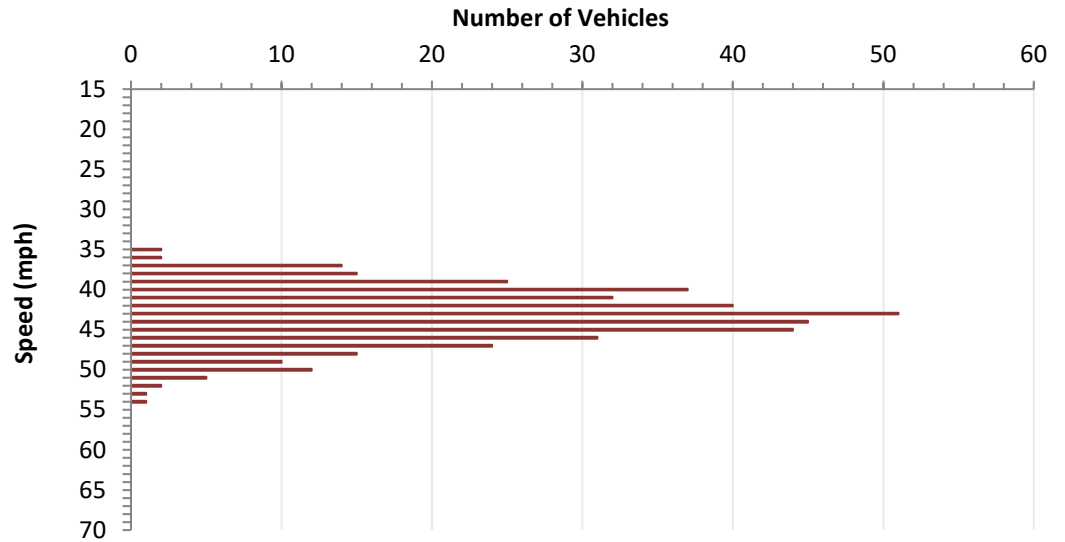
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mission Rd	From:	450' E/O Stage Coach Ln	To:	Old Highway 395
Position:	E Mission Rd @ Riverview Dr	Direction:	EB/WB		

Date:	5/15/2019	Weather:	Clear	Project Number:	19-4219-013
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	2	0.5%
36	2	1.0%
37	14	4.4%
38	15	8.1%
39	25	14.2%
40	37	23.3%
41	32	31.1%
42	40	40.9%
43	51	53.4%
44	45	64.5%
45	44	75.2%
46	31	82.8%
47	24	88.7%
48	15	92.4%
49	10	94.9%
50	12	97.8%
51	5	99.0%
52	2	99.5%
53	1	99.8%
54	1	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	408	



DATA ANALYSIS

Average Speed	43.3	Range	35 - 54
50th Percentile	42.7	10 mph Pace	38 - 47
85th Percentile	46.4	Number in Pace	344
90th Percentile	47.3	Percent in Pace	84%
95th Percentile	49.1		

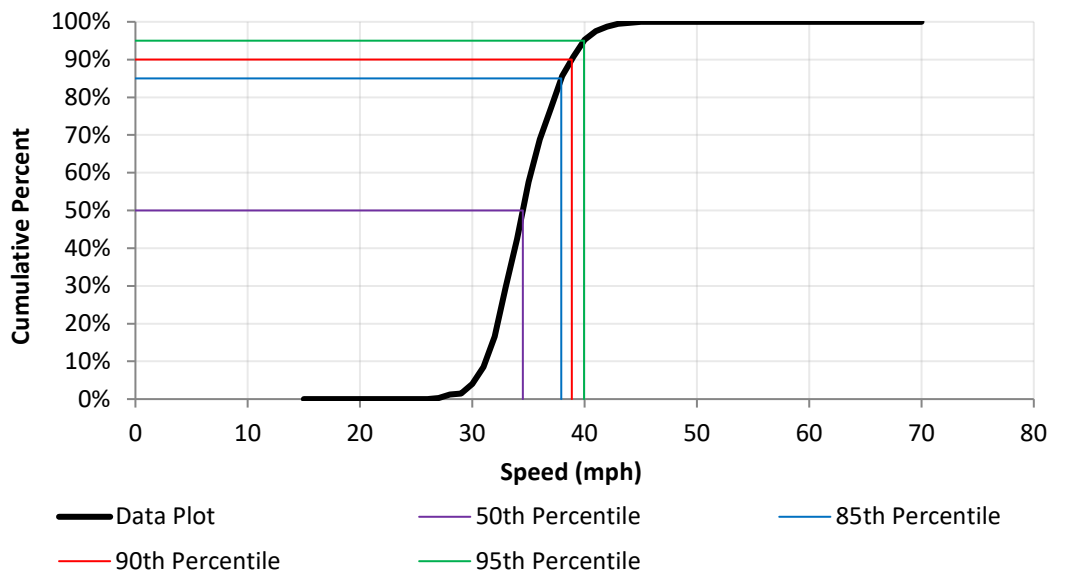
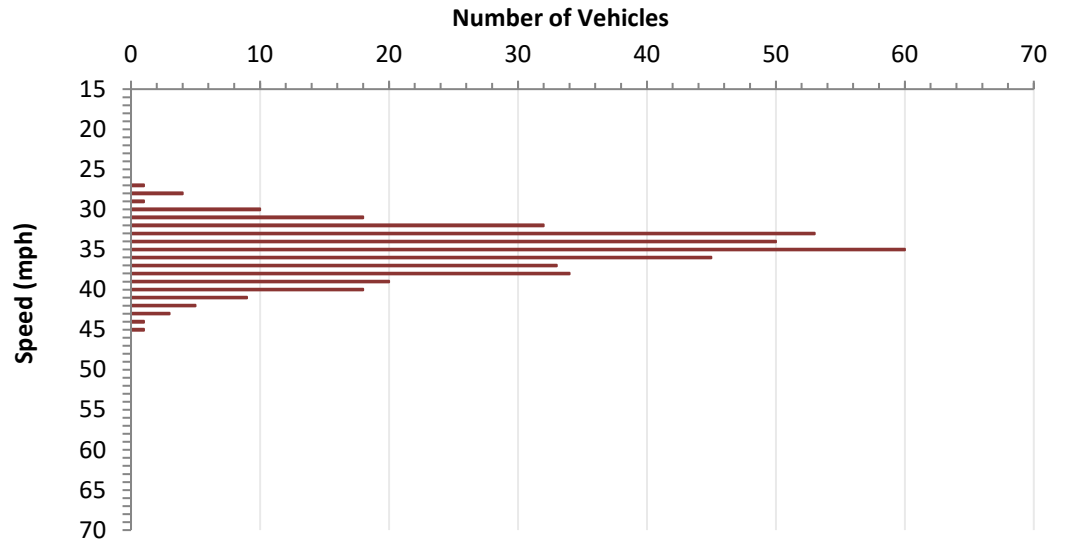


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mission Rd	From:	450' E/O Stage Coach Ln	To:	Old Highway 395
Position:	E Mission Rd @ Las Vistas Rd			Direction:	EB/WB
Date:	5/15/2019	Weather:	Clear	Project Number:	19-4219-012
Time Start:	1:00 PM	Road Condition:	Dry	Observer:	Contractor
Time End:	3:00 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	1	0.3%
28	4	1.3%
29	1	1.5%
30	10	4.0%
31	18	8.5%
32	32	16.6%
33	53	29.9%
34	50	42.5%
35	60	57.5%
36	45	68.8%
37	33	77.1%
38	34	85.7%
39	20	90.7%
40	18	95.2%
41	9	97.5%
42	5	98.7%
43	3	99.5%
44	1	99.7%
45	1	100.0%
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	398	



DATA ANALYSIS

Average Speed	35.2	Range	27 - 45
50th Percentile	34.5	10 mph Pace	31 - 40
85th Percentile	37.9	Number in Pace	363
90th Percentile	38.9	Percent in Pace	91%
95th Percentile	40.0		

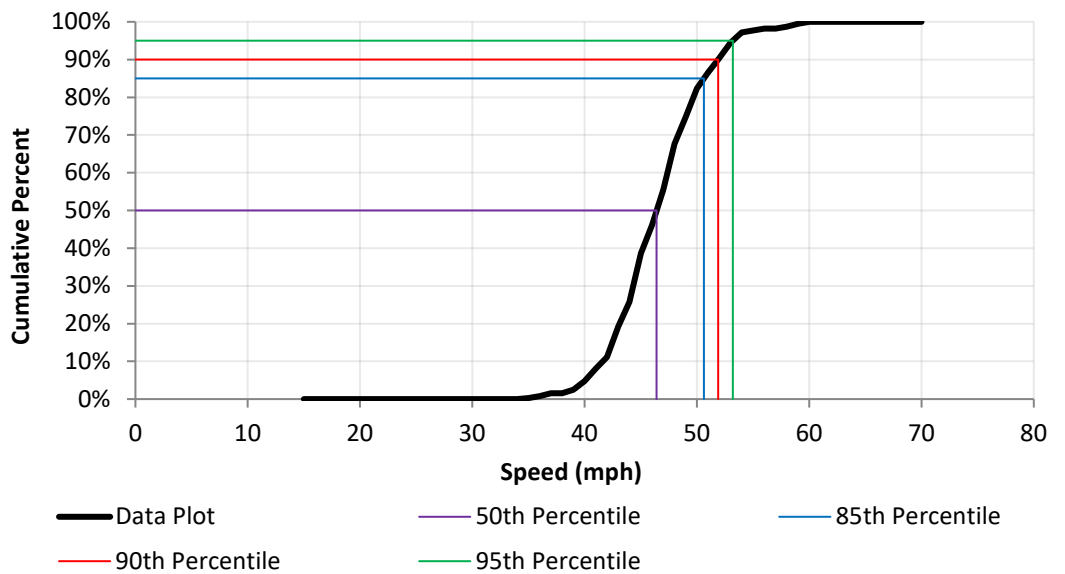
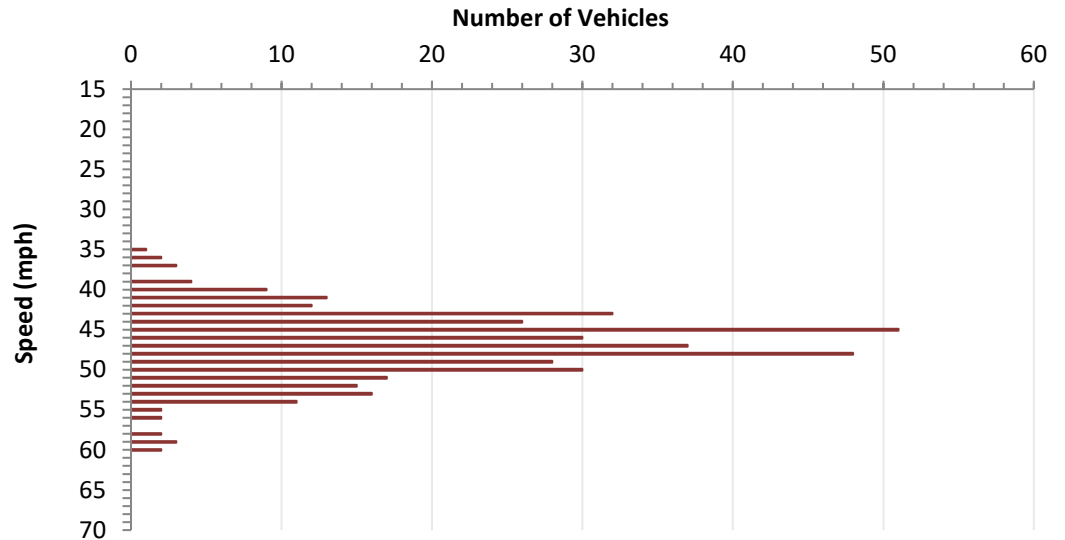


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Mission Rd	From:	450' E/O Stage Coach Ln	To:	Old Highway 395
Position:	E Mission Rd 200' E/O Sunny Heights Rd	Direction:	EB/WB		
Date:	5/15/2019	Weather:	Clear	Project Number:	19-4219-014
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	1	0.3%
36	2	0.8%
37	3	1.5%
38		
39	4	2.5%
40	9	4.8%
41	13	8.1%
42	12	11.1%
43	32	19.2%
44	26	25.8%
45	51	38.6%
46	30	46.2%
47	37	55.6%
48	48	67.7%
49	28	74.7%
50	30	82.3%
51	17	86.6%
52	15	90.4%
53	16	94.4%
54	11	97.2%
55	2	97.7%
56	2	98.2%
57		
58	2	98.7%
59	3	99.5%
60	2	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	396	



DATA ANALYSIS

Average Speed	47.0	Range	35 - 60
50th Percentile	46.4	10 mph Pace	43 - 52
85th Percentile	50.6	Number in Pace	314
90th Percentile	51.9	Percent in Pace	79%
95th Percentile	53.2		

VOLUME

E Mission Rd @ E Live Oak Park Rd

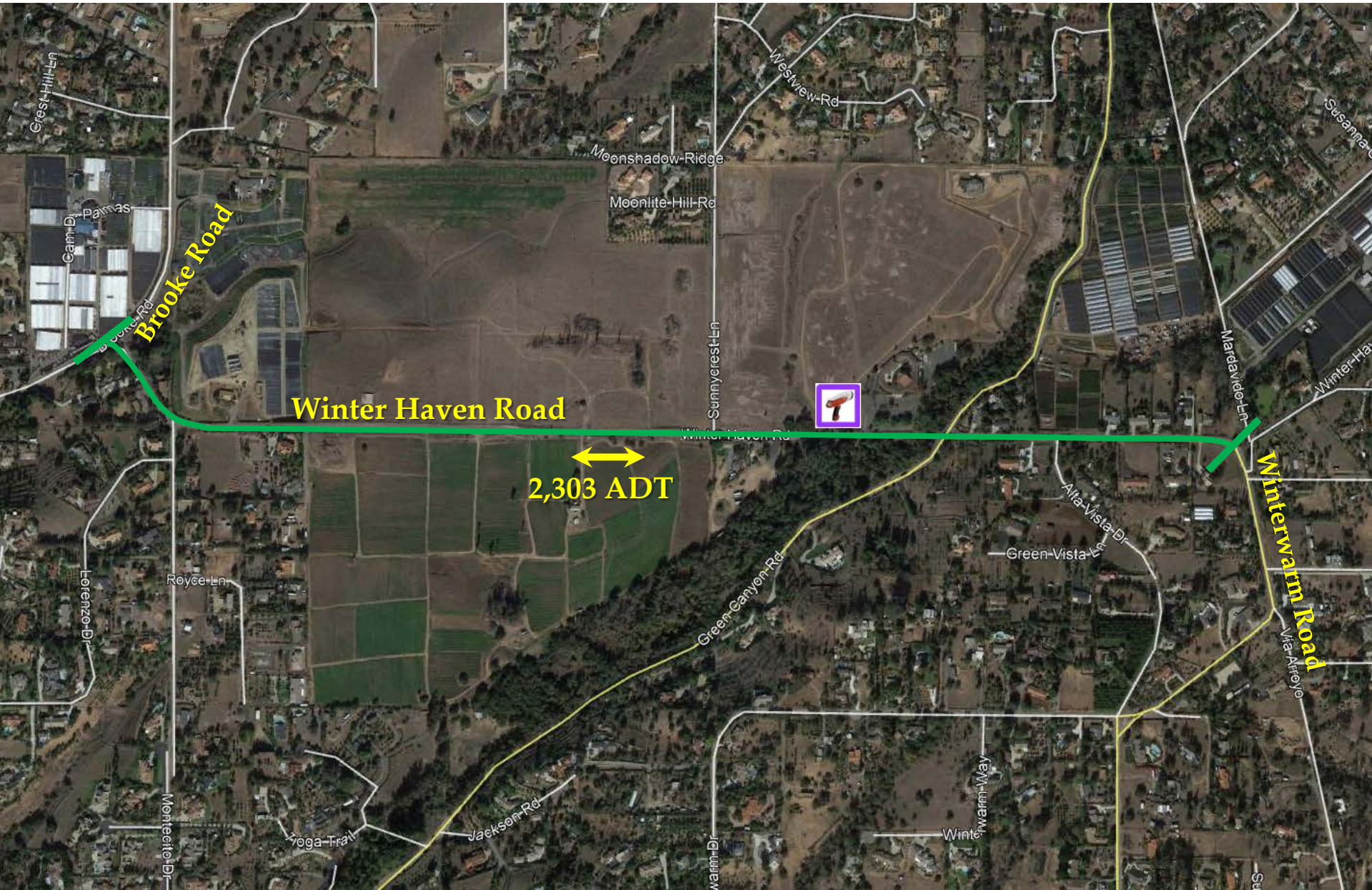
Day: Wednesday
Date: 5/15/2019City: Fallbrook
Project #: CA19_4218_009

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0	10,092					10,578	20,670
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			10	22	32		12:00			131	128	259	
00:15			11	16	27		12:15			155	118	273	
00:30			9	11	20		12:30			148	154	302	
00:45			4	34	15	64	12:45			132	566	130	530
01:00			6	14	20		13:00			114	150	264	
01:15			2	8	10		13:15			197	133	330	
01:30			15	8	23		13:30			130	141	271	
01:45			5	28	12	42	13:45			177	618	138	562
02:00			11	6	17		14:00			189	111	300	
02:15			7	7	14		14:15			211	117	328	
02:30			11	9	20		14:30			182	147	329	
02:45			8	37	14	36	14:45			176	758	150	525
03:00			10	12	22		15:00			186	177	363	
03:15			24	13	37		15:15			170	181	351	
03:30			13	28	41		15:30			225	179	404	
03:45			22	69	23	76	15:45			196	777	188	725
04:00			22	19	41		16:00			197	166	363	
04:15			38	47	85		16:15			196	206	402	
04:30			43	82	125		16:30			211	202	413	
04:45			62	165	112	260	16:45			181	785	193	767
05:00			67	124	191		17:00			215	168	383	
05:15			81	146	227		17:15			176	186	362	
05:30			134	165	299		17:30			185	170	355	
05:45			118	400	168	603	17:45			166	742	180	704
06:00			136	175	311		18:00			150	168	318	
06:15			173	170	343		18:15			105	122	227	
06:30			161	209	370		18:30			145	124	269	
06:45			164	634	218	772	18:45			119	519	104	518
07:00			159	200	359		19:00			108	98	206	
07:15			146	239	385		19:15			116	91	207	
07:30			170	222	392		19:30			93	81	174	
07:45			166	641	205	866	19:45			86	403	90	360
08:00			161	151	312		20:00			75	79	154	
08:15			146	189	335		20:15			79	103	182	
08:30			179	146	325		20:30			71	103	174	
08:45			146	632	184	670	20:45			67	292	74	359
09:00			129	121	250		21:00			47	80	127	
09:15			142	126	268		21:15			44	75	119	
09:30			130	126	256		21:30			44	65	109	
09:45			119	520	140	513	21:45			31	166	65	285
10:00			156	139	295		22:00			32	41	73	
10:15			133	116	249		22:15			36	60	96	
10:30			148	149	297		22:30			20	44	64	
10:45			119	556	114	518	22:45			22	110	43	188
11:00			150	145	295		23:00			28	29	57	
11:15			131	115	246		23:15			25	26	51	
11:30			135	149	284		23:30			19	30	49	
11:45			142	558	115	524	23:45			10	82	26	111
TOTALS			4274	4944	9218		TOTALS			5818	5634	11452	
SPLIT %			46.4%	53.6%	44.6%		SPLIT %			50.8%	49.2%	55.4%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						10,092	10,578						20,670
AM Peak Hour			06:15	06:45	06:45		PM Peak Hour			15:30	16:15	16:15							
AM Pk Volume			657	879	1518		PM Pk Volume			814	769	1572							
Pk Hr Factor			0.949	0.919	0.968		Pk Hr Factor			0.904	0.933	0.952							
7 - 9 Volume	0	0	1273	1536	2809		4 - 6 Volume	0	0	1527	1471	2998							
7 - 9 Peak Hour			07:45	07:00	07:00		4 - 6 Peak Hour			16:15	16:15	16:15							
7 - 9 Pk Volume	0	0	652	866	1507		4 - 6 Pk Volume	0	0	803	769	1572							
Pk Hr Factor	0.000	0.000	0.911	0.906	0.961		Pk Hr Factor	0.000	0.000	0.934	0.933	0.952							

5-D. Radar Certification

Winter Haven Rd from Brooke Rd to Winterwarm Rd (1.07 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Winter Haven Road	CERTIFICATION DATE	02/26/2020
FROM	Brooke Road	TO	Winterwarm Road
SEGMENT LENGTH	1.07 miles	AREA	Fallbrook

Prevailing Speeds: Posted Speed: **45 MPH**

Location	500' E/o Sunnycrest Ln
Date of Survey	05/09/2019
85 th Percentile	45.8 MPH
10 MPH Pace	37-46
Percent in Pace	64%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	1
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	0.37
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	1

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	2,303 vpd	Date Counted	05/15/2019
Number of Lanes	2	Road Striping	Center, Edge Lines
Mobility Element	Non ME	Caltrans Urban/Rural	Suburban
Road Classification		Classification	
Roadbed Width	24 - 28 ft	Travelled Lane Width	10 ft lane
Road Curvature	Curvilinear	Available Shoulders	0 - 2 ft
Intersecting Roads	Minimal	Intersecting Driveways	Minimal
Pedestrian Pathways	None	Bike Lane/Route	None

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



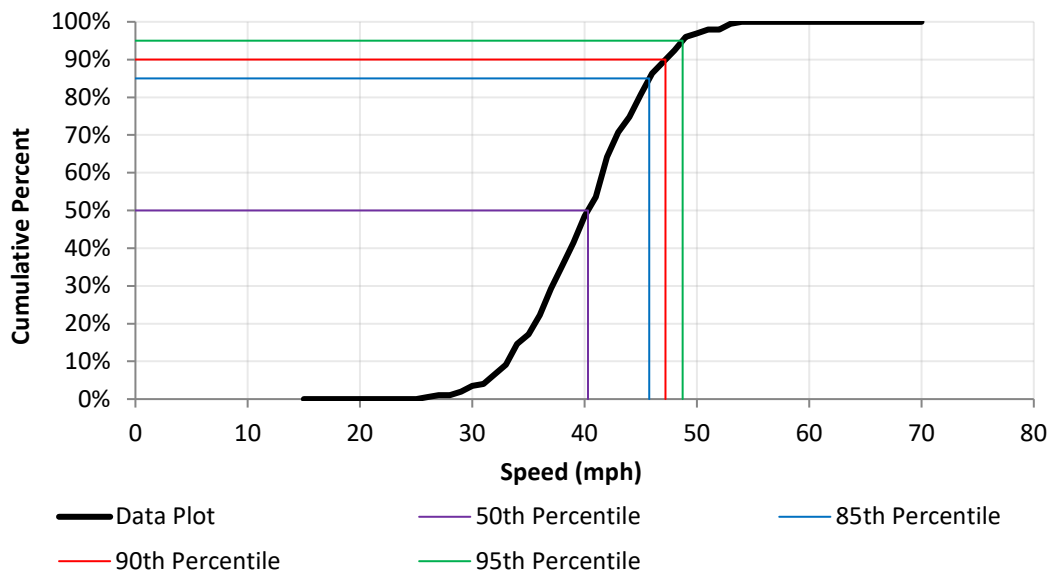
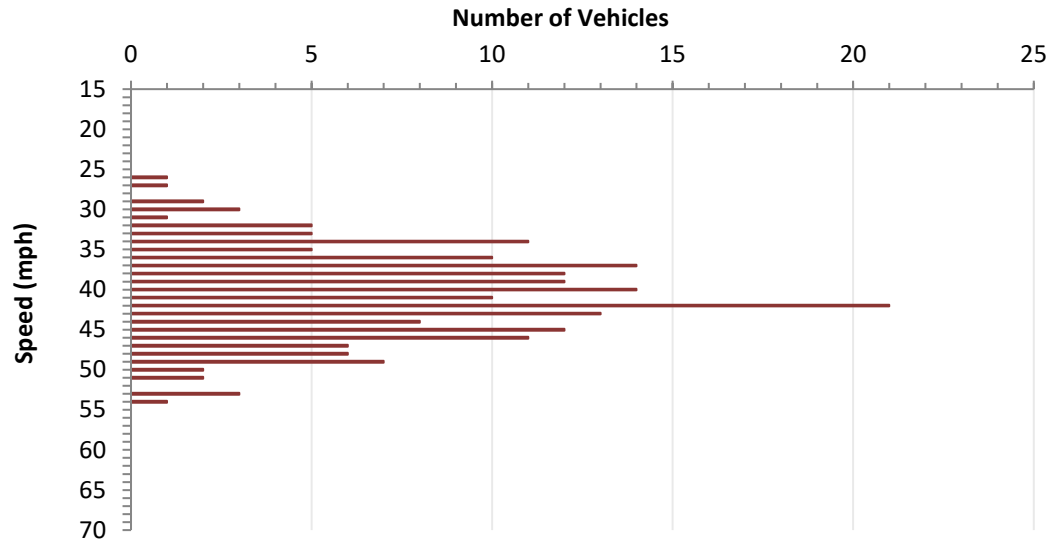
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Winter Haven Rd	From:	Brooke Rd	To:	Winterwarm Dr
Position:	Winter Haven Rd 500' EO Sunnycrest Ln			Direction:	EB/WB

Date:	5/9/2019	Weather:	Clear	Project Number:	19-4219-029
Time Start:	11:45 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:45 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	1	0.5%
27	1	1.0%
28		
29	2	2.0%
30	3	3.5%
31	1	4.0%
32	5	6.6%
33	5	9.1%
34	11	14.6%
35	5	17.2%
36	10	22.2%
37	14	29.3%
38	12	35.4%
39	12	41.4%
40	14	48.5%
41	10	53.5%
42	21	64.1%
43	13	70.7%
44	8	74.7%
45	12	80.8%
46	11	86.4%
47	6	89.4%
48	6	92.4%
49	7	96.0%
50	2	97.0%
51	2	98.0%
52		
53	3	99.5%
54	1	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	198	



DATA ANALYSIS

Average Speed	40.6	Range	26 - 54
50th Percentile	40.3	10 mph Pace	37 - 46
85th Percentile	45.8	Number in Pace	127
90th Percentile	47.2	Percent in Pace	64%
95th Percentile	48.7		

VOLUME

Winter Haven Rd 500' E/O Sunnycrest Ln

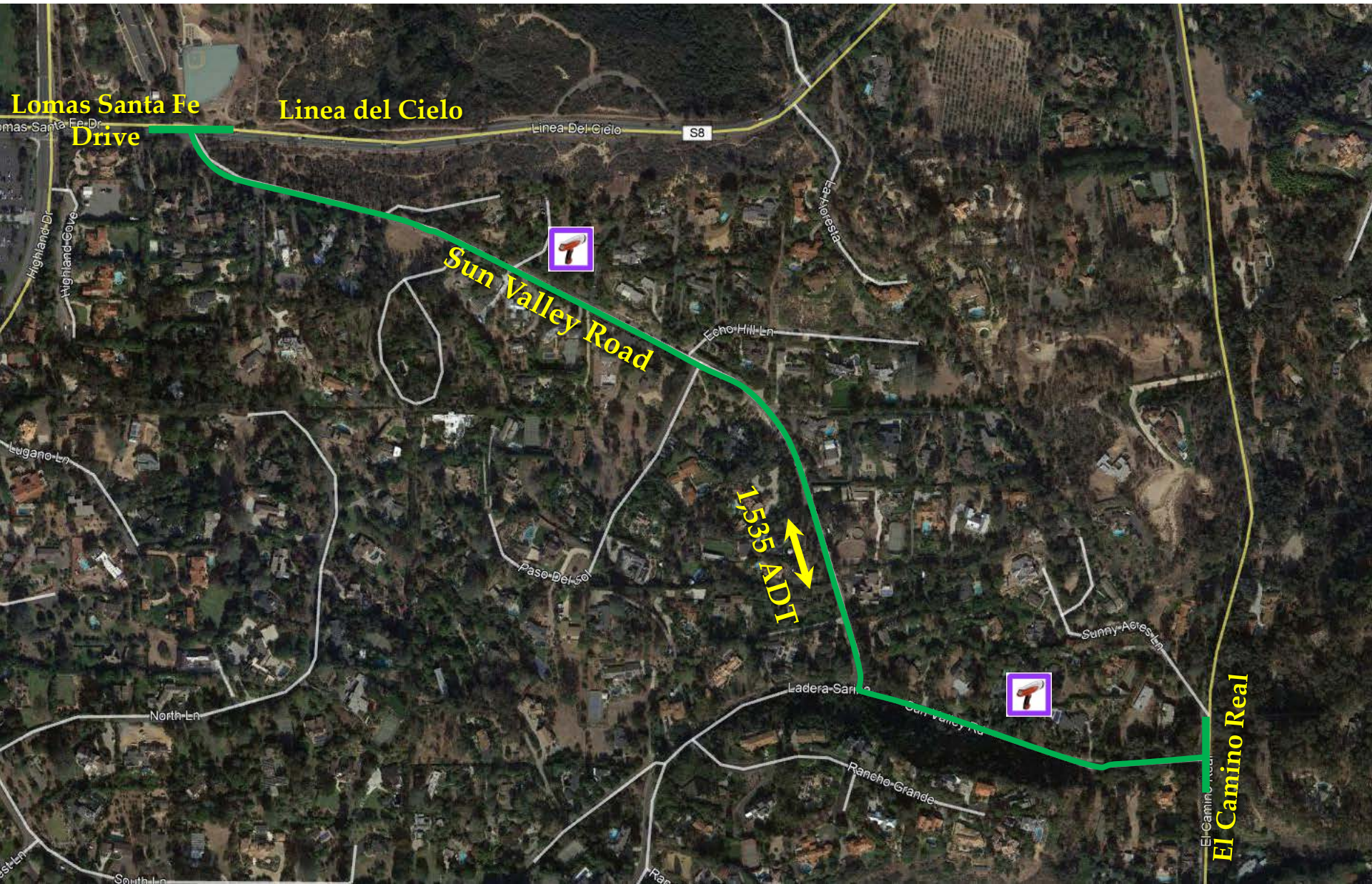
Day: Wednesday
Date: 5/15/2019City: Fallbrook
Project #: CA19_4218_027

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						1,114	1,189	2,303	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00			0	1	1		12:00			13	22	35			
00:15			0	2	2		12:15			15	24	39			
00:30			0	0	0		12:30			20	21	41			
00:45			0	0	0	3	12:45			10	58	24	91	34	149
01:00			0	1	1		13:00			27	22	49			
01:15			0	0	0		13:15			22	15	37			
01:30			0	0	0		13:30			18	20	38			
01:45			0	0	0	1	13:45			19	86	23	80	42	166
02:00			0	0	0		14:00			26	17	43			
02:15			0	1	1		14:15			19	19	38			
02:30			1	0	1		14:30			12	26	38			
02:45			0	1	0	1	14:45			26	83	28	90	54	173
03:00			1	5	6		15:00			39	21	60			
03:15			0	0	0		15:15			23	25	48			
03:30			0	0	0		15:30			15	25	40			
03:45			0	1	2	7	15:45			26	103	16	87	42	190
04:00			1	0	1		16:00			17	32	49			
04:15			2	0	2		16:15			24	22	46			
04:30			0	3	3		16:30			28	47	75			
04:45			1	4	5	7	16:45			22	91	22	123	44	214
05:00			2	2	4		17:00			17	21	38			
05:15			2	3	5		17:15			23	20	43			
05:30			3	4	7		17:30			23	14	37			
05:45			2	9	5	12	17:45			18	81	11	66	29	147
06:00			6	4	10		18:00			13	17	30			
06:15			15	4	19		18:15			20	18	38			
06:30			12	8	20		18:30			19	16	35			
06:45			34	67	46	95	18:45			18	70	13	64	31	134
07:00			9	38	47		19:00			9	9	18			
07:15			22	48	70		19:15			9	6	15			
07:30			26	27	53		19:30			14	5	19			
07:45			35	92	71	241	19:45			7	39	21	34	21	73
08:00			24	29	53		20:00			9	6	15			
08:15			13	19	32		20:15			8	4	12			
08:30			13	20	33		20:30			9	2	11			
08:45			21	71	44	91	20:45			10	36	5	17	15	53
09:00			17	25	42		21:00			2	2	4			
09:15			22	15	37		21:15			6	6	12			
09:30			10	23	33		21:30			8	6	14			
09:45			13	62	28	78	21:45			5	21	2	16	7	37
10:00			15	13	28		22:00			4	3	7			
10:15			13	12	25		22:15			1	2	3			
10:30			21	22	43		22:30			5	0	5			
10:45			16	65	33	129	22:45			3	13	1	6	4	19
11:00			14	13	27		23:00			2	0	2			
11:15			13	19	32		23:15			0	0	0			
11:30			15	20	35		23:30			0	0	0			
11:45			16	58	38	74	23:45			1	3	1	3	1	3
TOTALS			430	515	945		TOTALS			684	674	1358			
SPLIT %			45.5%	54.5%	41.0%		SPLIT %			50.4%	49.6%	59.0%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						1,114	1,189	2,303	
AM Peak Hour			07:15	07:00	07:15		PM Peak Hour			14:45	16:00	16:00			
AM Pk Volume			107	149	247		PM Pk Volume			103	123	214			
Pk Hr Factor			0.764	0.776	0.870		Pk Hr Factor			0.660	0.654	0.713			
7 - 9 Volume	0	0	163	240	403		4 - 6 Volume	0	0	172	189	361			
7 - 9 Peak Hour			07:15	07:00	07:15		4 - 6 Peak Hour			16:00	16:00	16:00			
7 - 9 Pk Volume	0	0	107	149	247		4 - 6 Pk Volume	0	0	91	123	214			
Pk Hr Factor	0.000	0.000	0.764	0.776	0.870		Pk Hr Factor	0.000	0.000	0.813	0.654	0.713			

5-E. Radar Certification

Sun Valley Rd from Loma Santa Fe Dr to El Camino Real (0.93 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey

Per California Vehicle Code 627

STREET	Sun Valley Road	CERTIFICATION DATE	2/26/2020
FROM	Lomas Santa Fe Dr	TO	El Camino Real
SEGMENT LENGTH	0.93 miles	AREA	San Dieguito

Prevailing Speeds: Posted Speed: **40 MPH**

Location	400' E/o Sun Valley Ln	555' E/o Ladera Sarina	Speed Zone
Date of Survey	04/24/2019	4/24/2019	12/03/2018
85 th Percentile	42.8 MPH	40.7 MPH	41.8 MPH
10 MPH Pace	34-43	33-42	33-42
Percent in Pace	83%	85%	84%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	1
Statewide Average Collision Rate	1.8
Collisions per Million Vehicle Miles	0.64
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	0

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	1,535 vpd	Date Counted	4/25/2019
Number of Lanes	2	Road Striping	Double Yellow Centerline
Mobility Element	Non-ME	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	12-14 ft
Roadbed Width	24 - 28 ft	Available Shoulders	None
Road Curvature	Curvilinear	Intersecting Driveways	Yes
Intersecting Roads	Minimal	Bike Lane/Route	None
Pedestrian Pathways	Partially DG Pathway		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **40 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



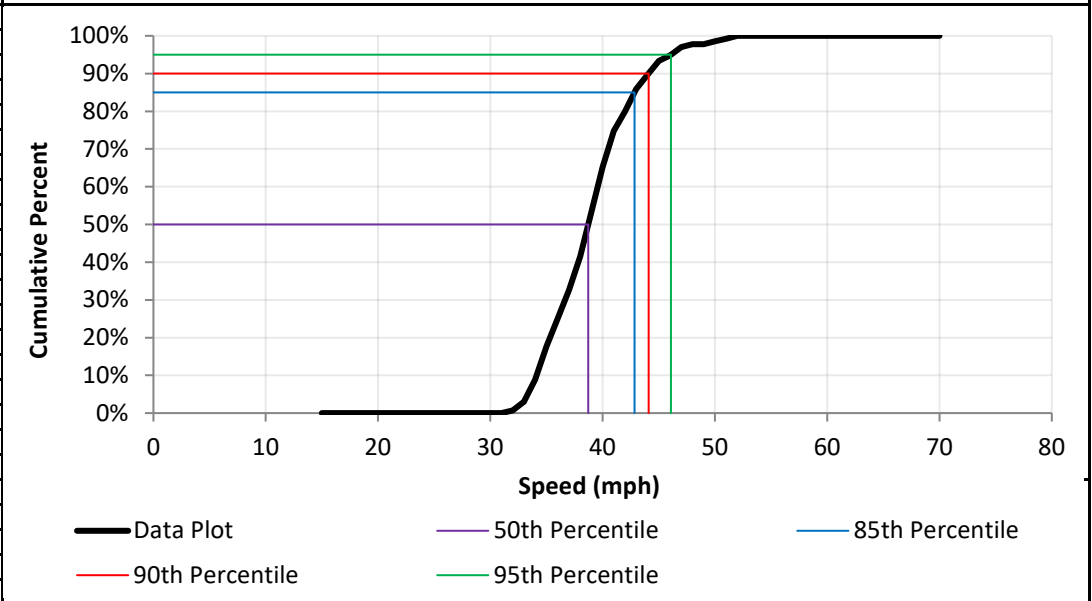
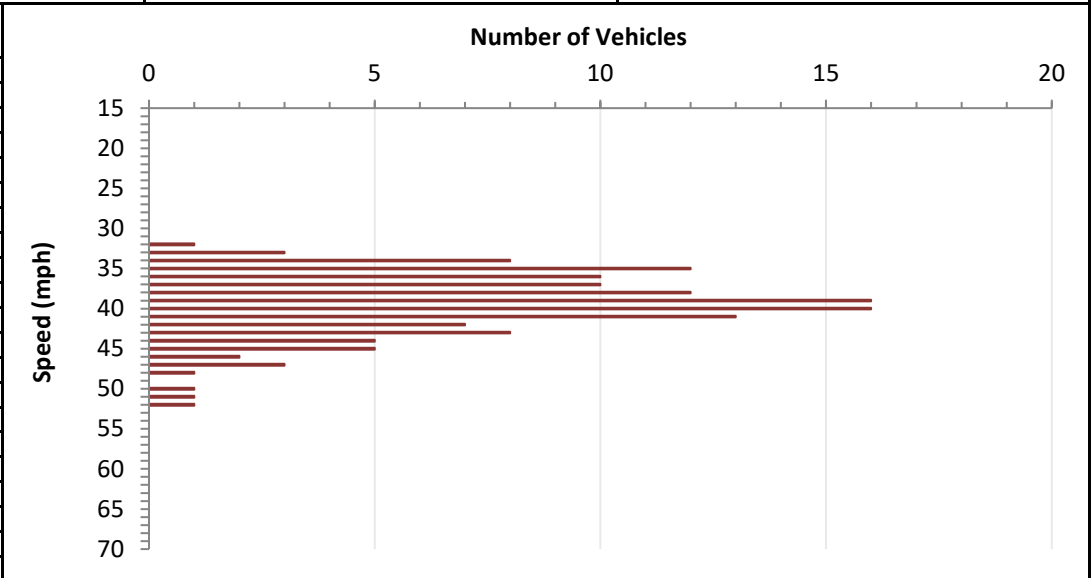
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Sun Valley Rd	From:	Lomas Santa De Drive	To:	El Camino Real
Position:	400' E/o Sun Valley Lane	Direction:	EB/WB		

Date:	4/24/2019	Weather:	Clear	Project Number:	19-4189-001
Time Start:	9:30 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:30 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32	1	0.7%
33	3	3.0%
34	8	8.9%
35	12	17.8%
36	10	25.2%
37	10	32.6%
38	12	41.5%
39	16	53.3%
40	16	65.2%
41	13	74.8%
42	7	80.0%
43	8	85.9%
44	5	89.6%
45	5	93.3%
46	2	94.8%
47	3	97.0%
48	1	97.8%
49		
50	1	98.5%
51	1	99.3%
52	1	100.0%
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	135	



DATA ANALYSIS

Average Speed	39.4	Range	32 - 52
50th Percentile	38.7	10 mph Pace	34 - 43
85th Percentile	42.8	Number in Pace	112
90th Percentile	44.1	Percent in Pace	83%
95th Percentile	46.1		



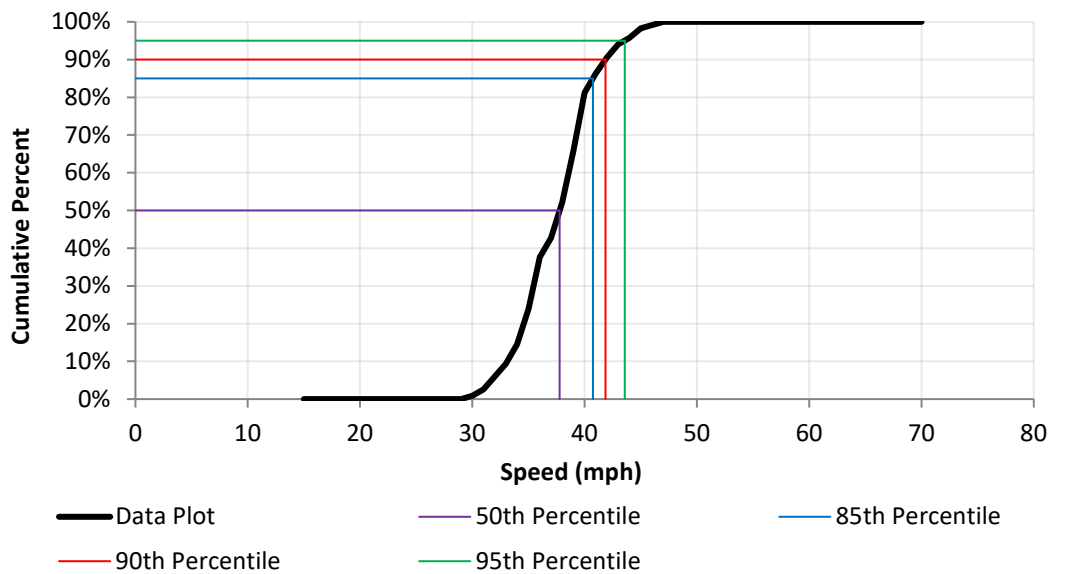
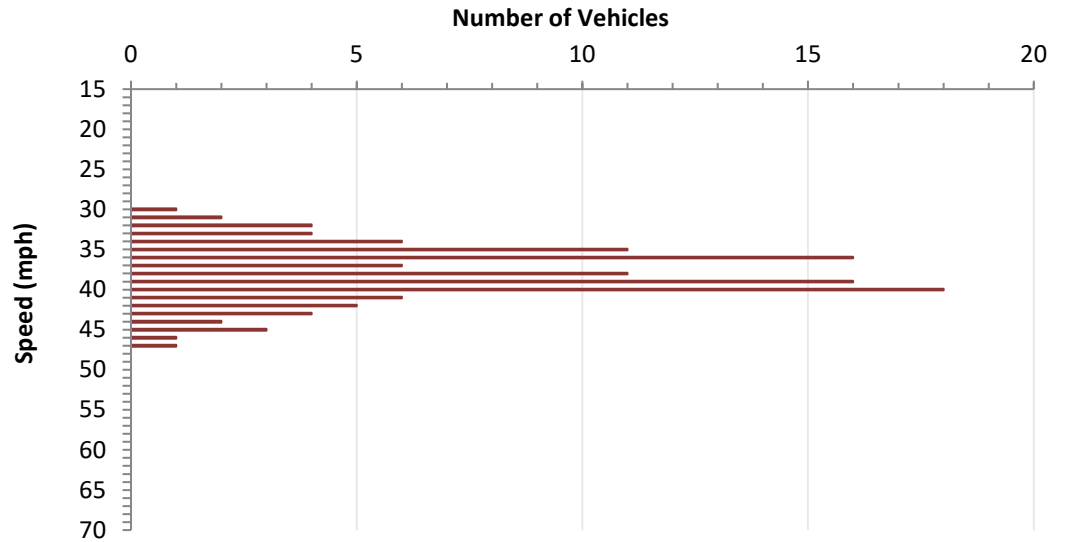
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Sun Valley Rd	From:	Lomas Santa De Drive	To:	El Camino Real
Position:	550' E/o Ladera Sarina	Direction:	EB/WB		

Date:	4/24/2019	Weather:	Clear	Project Number:	19-4189-002
Time Start:	11:45 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:45 PM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	1	0.9%
31	2	2.6%
32	4	6.0%
33	4	9.4%
34	6	14.5%
35	11	23.9%
36	16	37.6%
37	6	42.7%
38	11	52.1%
39	16	65.8%
40	18	81.2%
41	6	86.3%
42	5	90.6%
43	4	94.0%
44	2	95.7%
45	3	98.3%
46	1	99.1%
47	1	100.0%
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	117	



DATA ANALYSIS

Average Speed	38.0	Range	30 - 47
50th Percentile	37.8	10 mph Pace	33 - 42
85th Percentile	40.7	Number in Pace	99
90th Percentile	41.9	Percent in Pace	85%
95th Percentile	43.6		

VOLUME

Sun Valley Rd 500' S/O Lomas Santa Fe Dr

Day: Thursday
Date: 4/25/2019

City: Rancho Santa Fe
Project #: CA19_4191_003

DAILY TOTALS					NB	SB	EB					WB	Total
					763	772						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00	1	1			2	12:00	12	18			30		
00:15	0	0			0	12:15	10	14			24		
00:30	0	0			0	12:30	10	18			28		
00:45	0	1	0	1	0	12:45	9	41	13	63	22		
01:00	0	0			0	13:00	14	9			23		
01:15	0	0			0	13:15	13	17			30		
01:30	0	0			0	13:30	8	16			24		
01:45	0	0			0	13:45	15	50	16	58	31		
02:00	0	0			0	14:00	18	13			31		
02:15	0	0			0	14:15	12	16			28		
02:30	0	0			0	14:30	22	8			30		
02:45	0	0			0	14:45	23	75	15	52	38		
03:00	0	0			0	15:00	15	16			31		
03:15	0	0			0	15:15	17	22			39		
03:30	0	0			0	15:30	28	17			45		
03:45	0	0			0	15:45	10	70	14	69	24		
04:00	0	0			0	16:00	25	19			44		
04:15	0	0			0	16:15	20	17			37		
04:30	0	0			0	16:30	16	8			24		
04:45	1	1	0		1	16:45	18	79	14	58	32		
05:00	3	0			3	17:00	19	21			40		
05:15	0	0			0	17:15	15	11			26		
05:30	0	0			0	17:30	19	18			37		
05:45	3	6	2	2	5	17:45	14	67	22	72	36		
06:00	1	1			2	18:00	8	13			21		
06:15	5	3			8	18:15	11	12			23		
06:30	4	3			7	18:30	11	13			24		
06:45	7	17	4	11	11	18:45	4	34	11	49	15		
07:00	5	12			17	19:00	9	11			20		
07:15	12	15			27	19:15	11	10			21		
07:30	16	12			28	19:30	5	12			17		
07:45	20	53	13	52	33	19:45	7	32	2	35	9		
08:00	14	19			33	20:00	5	6			11		
08:15	16	11			27	20:15	5	9			14		
08:30	18	8			26	20:30	4	4			8		
08:45	15	63	14	52	29	20:45	3	17	2	21	5		
09:00	13	10			23	21:00	2	12			14		
09:15	15	9			24	21:15	7	3			10		
09:30	7	15			22	21:30	4	4			8		
09:45	12	47	12	46	24	21:45	1	14	3	22	4		
10:00	10	12			22	22:00	0	4			4		
10:15	6	11			17	22:15	4	3			7		
10:30	10	14			24	22:30	1	0			1		
10:45	10	36	11	48	21	22:45	2	7	8	15	10		
11:00	5	11			16	23:00	1	0			1		
11:15	21	9			30	23:15	0	1			1		
11:30	11	14			25	23:30	1	0			1		
11:45	14	51	11	45	25	23:45	0	2	0	1	0		
TOTALS	275	257			532	TOTALS	488	515			1003		
SPLIT %	51.7%	48.3%			34.7%	SPLIT %	48.7%	51.3%			65.3%		

DAILY TOTALS				NB	SB	EB				WB	Total			
				763	772					0				
AM Peak Hour	07:45	11:45			07:15	PM Peak Hour	14:45	15:15			14:45			
AM Pk Volume	68	61			121	PM Pk Volume	83	72			153			
Pk Hr Factor	0.850	0.847			0.917	Pk Hr Factor	0.741	0.818			0.850			
7 - 9 Volume	116	104	0	0	220	4 - 6 Volume	146	130	0	0	276			
7 - 9 Peak Hour	07:45	07:15			07:15	4 - 6 Peak Hour	16:00	17:00			17:00			
7 - 9 Pk Volume	68	59	0	0	121	4 - 6 Pk Volume	79	72	0	0	139			
Pk Hr Factor	0.850	0.776	0.000	0.000	0.917	Pk Hr Factor	0.790	0.818	0.000	0.000	0.869			

5-F. Radar Certification

County Maintained Portions of Via de la Valle

between San Diego C/L and (near Arroya Rosita) and Paseo Delicias (3.37 miles)



COUNTY OF SAN DIEGO
Engineering and Traffic Survey
Per California Vehicle Code 627

STREET County Maintained Portions of Via De La Valle **CERTIFICATION DATE** 02/26/2020
FROM San Diego City Limit (near Arroya Rosita) **TO** Paseo Delicias
SEGMENT LENGTH 3.37 miles **AREA** San Marcos

Prevailing Speeds: Posted Speed: **45 MPH**

Location	200' W/o Las Planideras	800' S/o Calzada Del Bosque	300' S/o La Gracia	Speed Zone
Date of Survey	05/21/2019	05/21/2019	05/16/2019	05/21/2019
85 th Percentile	48.6 MPH	45.9 MPH	46.5 MPH	47 MPH
10 MPH Pace	39-48	38-47	39-48	39-48
Percent in Pace	72%	77%	87%	78.7%

Collision Records:

Number of Years Studied	3 years (08/01/2016 – 07/31/2019)
Total Collisions	43
Statewide Average Collision Rate	1.19
Collisions per Million Vehicle Miles	0.99
Number of Collisions with Fatalities	0
Number of Collisions with Injuries	28

Highway, Traffic, And Roadside Conditions Not Readily Apparent to the Driver:

Average Daily Traffic	11,821 vpd	Date Counted	05/09/2019
Number of Lanes	2	Road Striping	Center, 2 way left turn, Edge Lines
Mobility Element	Community Collector	Caltrans Urban/Rural Classification	Suburban
Road Classification		Travelled Lane Width	12 ft lane
Roadbed Width	30 to 50 ft	Available Shoulders	1 to 16 ft
Road Curvature	Curvilinear	Intersecting Driveways	Minimal
Intersecting Roads	Some	Bike Lane/Route	None
Pedestrian Pathways	Partially sidewalk		

CERTIFICATION:

I, Zoubir Ouadah, County Traffic Engineer for the County of San Diego and duly registered in the State of California as a Professional Traffic and Civil Engineer, have supervised data collection and studies for this Traffic & Engineering Survey made for the purpose of determining safe, reasonable, and appropriate speeds for motor vehicles upon this public highway and based on my studies and examination of this Engineering & Traffic Survey I am of the opinion that a speed limit of **45 MPH** is justified, safe and reasonable upon this segment of highway.

Zoubir A. Ouadah, CE 42742 & TE 1719

Date



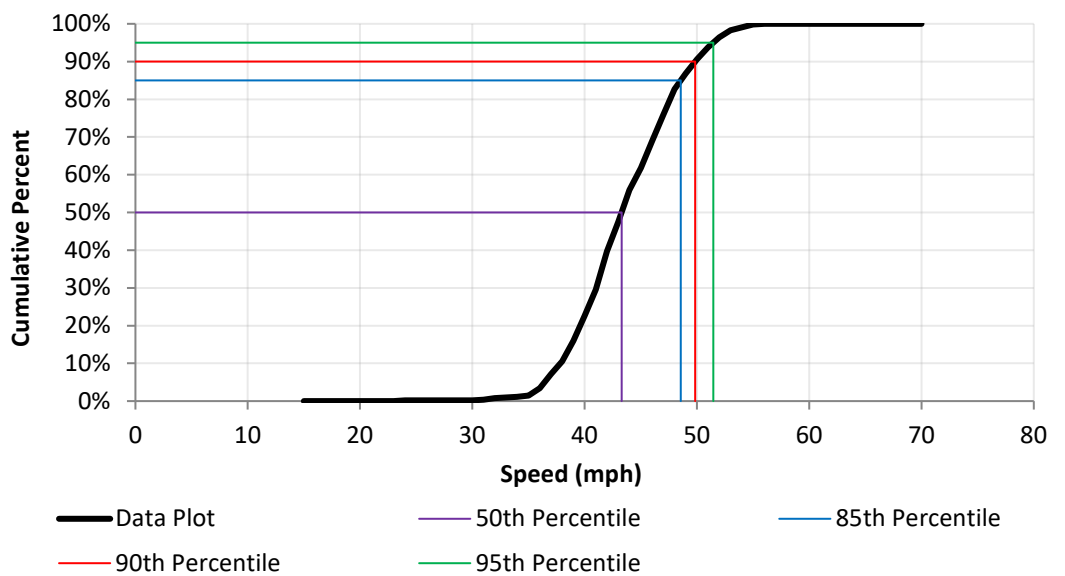
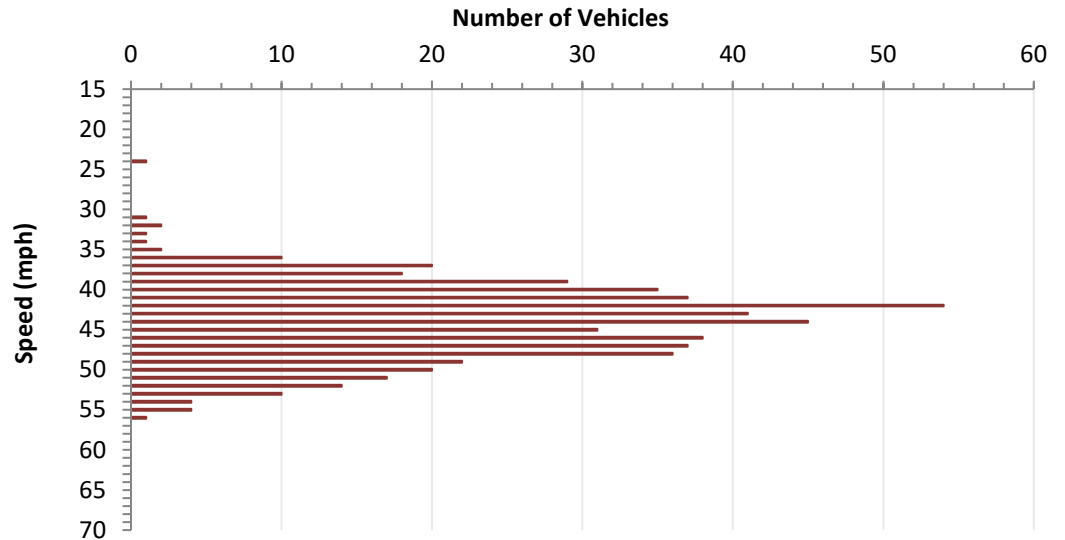
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Via De La Valle	From:	San Diego City Limit	To:	Paseo Delicias
Position:	Via De La Valle 200' N/O Las Planideras	Direction:	NB/SB		

Date:	5/21/2019	Weather:	Clear	Project Number:	19-4219-007
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24	1	0.2%
25		
26		
27		
28		
29		
30		
31	1	0.4%
32	2	0.8%
33	1	0.9%
34	1	1.1%
35	2	1.5%
36	10	3.4%
37	20	7.2%
38	18	10.5%
39	29	16.0%
40	35	22.6%
41	37	29.6%
42	54	39.7%
43	41	47.5%
44	45	55.9%
45	31	61.8%
46	38	68.9%
47	37	75.9%
48	36	82.7%
49	22	86.8%
50	20	90.6%
51	17	93.8%
52	14	96.4%
53	10	98.3%
54	4	99.1%
55	4	99.8%
56	1	100.0%
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	531	



DATA ANALYSIS

Average Speed	44.1	Range	24 - 56
50th Percentile	43.3	10 mph Pace	39 - 48
85th Percentile	48.6	Number in Pace	383
90th Percentile	49.8	Percent in Pace	72%
95th Percentile	51.5		



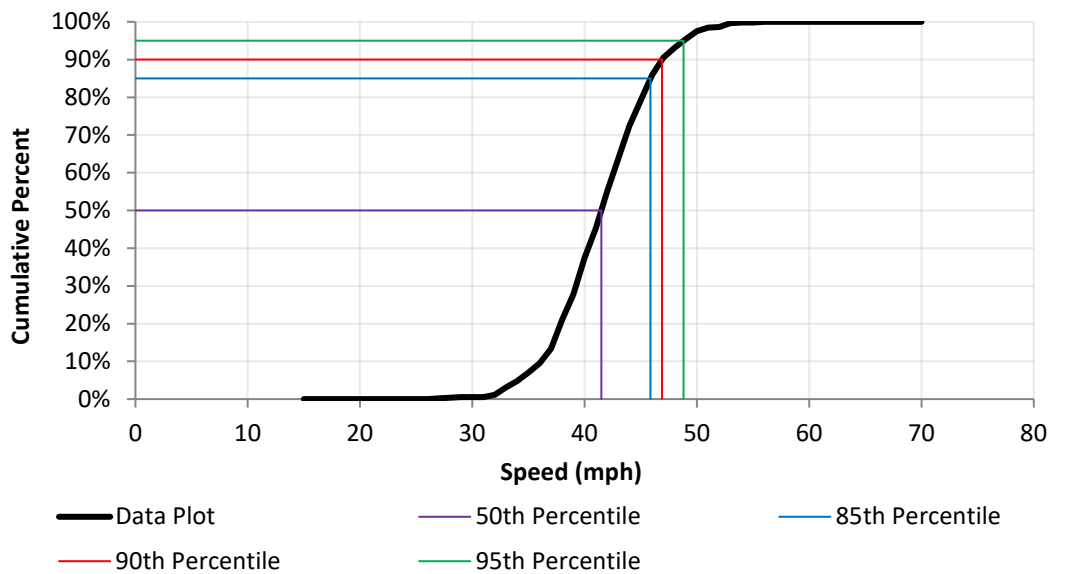
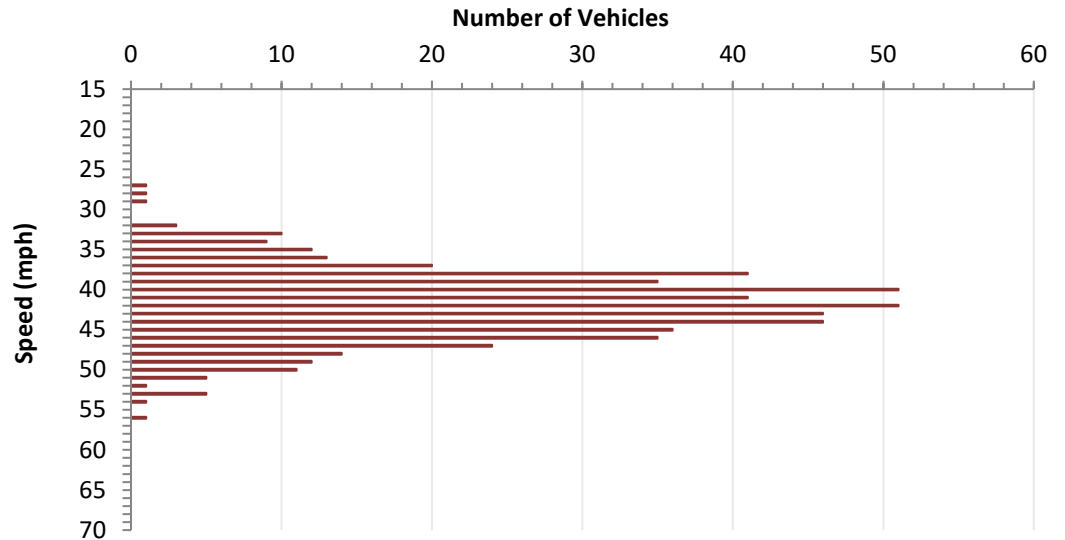
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Via De La Valle	From:	San Diego City Limit	To:	Paseo Delicias
Position:	Via De La Valle 800' S/O Calzada Del Bosque			Direction:	NB/SB

Date:	5/21/2019	Weather:	Clear	Project Number:	19-4219-005
Time Start:	11:15 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:15 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	1	0.2%
28	1	0.4%
29	1	0.6%
30		
31		
32	3	1.1%
33	10	3.0%
34	9	4.8%
35	12	7.0%
36	13	9.5%
37	20	13.3%
38	41	21.1%
39	35	27.8%
40	51	37.5%
41	41	45.2%
42	51	54.9%
43	46	63.7%
44	46	72.4%
45	36	79.3%
46	35	85.9%
47	24	90.5%
48	14	93.2%
49	12	95.4%
50	11	97.5%
51	5	98.5%
52	1	98.7%
53	5	99.6%
54	1	99.8%
55		
56	1	100.0%
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	526	



DATA ANALYSIS

Average Speed	42.0	Range	27 - 56
50th Percentile	41.5	10 mph Pace	38 - 47
85th Percentile	45.9	Number in Pace	406
90th Percentile	46.9	Percent in Pace	77%
95th Percentile	48.8		



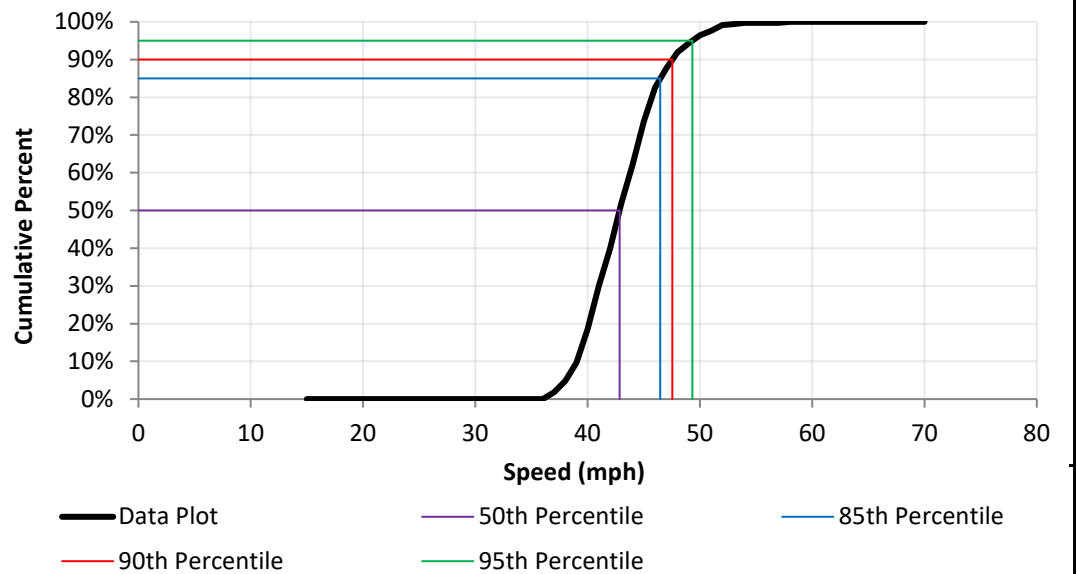
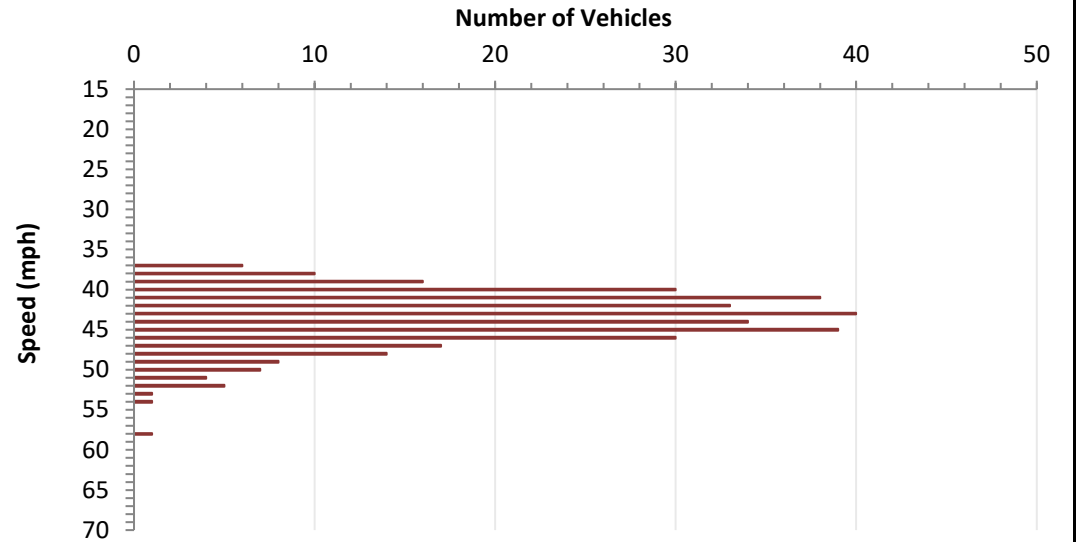
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Via De La Valle	From:	San Diego City Limit	To:	Paseo Delicias
Position:	Via De La Valle 300' S/O La Gracia	Direction:	NB/SB		

Date:	5/16/2019	Weather:	Clear	Project Number:	19-4219-006
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37	6	1.8%
38	10	4.8%
39	16	9.6%
40	30	18.6%
41	38	29.9%
42	33	39.8%
43	40	51.8%
44	34	62.0%
45	39	73.7%
46	30	82.6%
47	17	87.7%
48	14	91.9%
49	8	94.3%
50	7	96.4%
51	4	97.6%
52	5	99.1%
53	1	99.4%
54	1	99.7%
55		
56		
57		
58	1	100.0%
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	334	



DATA ANALYSIS

Average Speed	43.6	Range	37 - 58
50th Percentile	42.9	10 mph Pace	39 - 48
85th Percentile	46.5	Number in Pace	291
90th Percentile	47.5	Percent in Pace	87%
95th Percentile	49.3		

VOLUME

Via De La Valle 100' N/O San Diego City Limit

Day: Thursday
Date: 5/9/2019City: Rancho Santa Fe
Project #: CA19_4218_004

DAILY TOTALS					NB	SB	EB					WB	Total
					6,104	6,350						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00	5	0			5	12:00	76	98			174		
00:15	5	4			9	12:15	117	108			225		
00:30	4	1			5	12:30	83	101			184		
00:45	3	17	2	7	5	12:45	101	377	87	394	188	771	
01:00	3	3			6	13:00	84	104			188		
01:15	1	2			3	13:15	97	78			175		
01:30	4	1			5	13:30	101	86			187		
01:45	1	9	1	7	2	13:45	115	397	91	359	206	756	
02:00	2	2			4	14:00	105	97			202		
02:15	3	0			3	14:15	118	108			226		
02:30	5	3			8	14:30	150	122			272		
02:45	1	11	2	7	3	14:45	118	491	108	435	226	926	
03:00	2	2			4	15:00	135	129			264		
03:15	0	1			1	15:15	143	120			263		
03:30	1	1			2	15:30	148	122			270		
03:45	0	3	3	7	3	15:45	141	567	122	493	263	1060	
04:00	1	2			3	16:00	147	104			251		
04:15	2	6			8	16:15	132	92			224		
04:30	4	5			9	16:30	141	80			221		
04:45	4	11	9	22	13	16:45	122	542	78	354	200	896	
05:00	5	22			27	17:00	147	116			263		
05:15	17	21			38	17:15	141	105			246		
05:30	26	33			59	17:30	142	113			255		
05:45	28	76	41	117	69	17:45	120	550	98	432	218	982	
06:00	24	52			76	18:00	148	62			210		
06:15	38	70			108	18:15	103	81			184		
06:30	60	90			150	18:30	102	59			161		
06:45	66	188	113	325	179	18:45	81	434	62	264	143	698	
07:00	73	119			192	19:00	86	70			156		
07:15	62	157			219	19:15	114	65			179		
07:30	65	155			220	19:30	64	47			111		
07:45	82	282	137	568	219	19:45	71	335	43	225	114	560	
08:00	86	135			221	20:00	58	39			97		
08:15	81	199			280	20:15	47	45			92		
08:30	92	172			264	20:30	45	23			68		
08:45	60	319	161	667	221	20:45	37	187	32	139	69	326	
09:00	74	129			203	21:00	46	25			71		
09:15	83	135			218	21:15	31	27			58		
09:30	62	111			173	21:30	38	30			68		
09:45	69	288	117	492	186	21:45	46	161	19	101	65	262	
10:00	88	129			217	22:00	28	17			45		
10:15	77	113			190	22:15	28	16			44		
10:30	103	98			201	22:30	23	12			35		
10:45	92	360	108	448	200	22:45	17	96	6	51	23	147	
11:00	75	99			174	23:00	19	9			28		
11:15	94	116			210	23:15	8	2			10		
11:30	85	100			185	23:30	13	11			24		
11:45	99	353	95	410	194	23:45	10	50	4	26	14	76	
TOTALS	1917	3077			4994	TOTALS	4187	3273			7460		
SPLIT %	38.4%	61.6%			40.1%	SPLIT %	56.1%	43.9%			59.9%		

DAILY TOTALS			NB	SB	EB			WB	Total		
			6,104	6,350				0			
AM Peak Hour	11:30	08:00		08:00	PM Peak Hour	15:15	15:00				15:00
AM Pk Volume	377	667		986	PM Pk Volume	579	493				1060
Pk Hr Factor	0.806	0.838		0.880	Pk Hr Factor	0.978	0.955				0.981
7 - 9 Volume	601	1235	0	0	1836	4 - 6 Volume	1092	786	0	0	1878
7 - 9 Peak Hour	07:45	08:00		08:00	4 - 6 Peak Hour	16:45	17:00				17:00
7 - 9 Pk Volume	341	667	0	0	986	4 - 6 Pk Volume	552	432	0	0	982
Pk Hr Factor	0.927	0.838	0.000	0.000	0.880	Pk Hr Factor	0.939	0.931	0.000	0.000	0.933

VOLUME

Via De La Valle 550' S/O Paseo Delicias

Day: Thursday
Date: 5/9/2019City: Rancho Santa Fe
Project #: CA19_4218_005

DAILY TOTALS					NB	SB						EB	WB						Total
					5,628	5,560						0	0						11,188
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00	7	4			11		12:00	67	97			164							
00:15	3	3			6		12:15	69	87			156							
00:30	5	0			5		12:30	101	63			164							
00:45	4	19	3	10	7	29	12:45	84	321	76	323	160	644						
01:00	5	1			6		13:00	85	78			163							
01:15	0	0			0		13:15	99	81			180							
01:30	1	2			3		13:30	86	65			151							
01:45	1	7	1	4	2	11	13:45	94	364	84	308	178	672						
02:00	1	2			3		14:00	108	65			173							
02:15	1	0			1		14:15	104	77			181							
02:30	4	2			6		14:30	137	91			228							
02:45	1	7	1	5	2	12	14:45	128	477	97	330	225	807						
03:00	4	0			4		15:00	138	90			228							
03:15	0	2			2		15:15	155	101			256							
03:30	0	1			1		15:30	162	98			260							
03:45	2	6	3	6	5	12	15:45	152	607	78	367	230	974						
04:00	2	4			6		16:00	133	80			213							
04:15	2	5			7		16:15	125	73			198							
04:30	1	6			7		16:30	148	78			226							
04:45	3	8	22	37	25	45	16:45	130	536	88	319	218	855						
05:00	3	20			23		17:00	117	80			197							
05:15	8	33			41		17:15	142	71			213							
05:30	9	46			55		17:30	130	77			207							
05:45	22	42	51	150	73	192	17:45	103	492	64	292	167	784						
06:00	20	69			89		18:00	112	48			160							
06:15	23	92			115		18:15	106	40			146							
06:30	39	145			184		18:30	96	35			131							
06:45	63	145	146	452	209	597	18:45	89	403	51	174	140	577						
07:00	52	153			205		19:00	76	35			111							
07:15	40	161			201		19:15	95	38			133							
07:30	62	154			216		19:30	53	26			79							
07:45	74	228	140	608	214	836	19:45	57	281	32	131	89	412						
08:00	81	164			245		20:00	55	37			92							
08:15	95	169			264		20:15	50	22			72							
08:30	94	166			260		20:30	37	18			55							
08:45	68	338	146	645	214	983	20:45	38	180	21	98	59	278						
09:00	74	143			217		21:00	42	17			59							
09:15	71	133			204		21:15	38	32			70							
09:30	76	113			189		21:30	25	32			57							
09:45	63	284	107	496	170	780	21:45	34	139	11	92	45	231						
10:00	68	95			163		22:00	32	12			44							
10:15	69	98			167		22:15	20	10			30							
10:30	82	95			177		22:30	19	9			28							
10:45	82	301	79	367	161	668	22:45	16	87	3	34	19	121						
11:00	66	78			144		23:00	18	3			21							
11:15	86	67			153		23:15	10	5			15							
11:30	75	68			143		23:30	8	5			13							
11:45	88	315	82	295	170	610	23:45	5	41	4	17	9	58						
TOTALS	1700	3075			4775		TOTALS	3928	2485			6413							
SPLIT %	35.6%	64.4%			42.7%		SPLIT %	61.3%	38.7%			57.3%							

DAILY TOTALS					NB	SB						EB	WB						Total
					5,628	5,560						0	0						11,188
AM Peak Hour	07:45	08:00			07:45		PM Peak Hour	15:00	14:45			15:00							
AM Pk Volume	344	645			983		PM Pk Volume	607	386			974							
Pk Hr Factor	0.905	0.954			0.931		Pk Hr Factor	0.937	0.955			0.937							
7 - 9 Volume	566	1253	0	0	1819		4 - 6 Volume	1028	611	0	0	1639							
7 - 9 Peak Hour	07:45	08:00			07:45		4 - 6 Peak Hour	16:30	16:00			16:00							
7 - 9 Pk Volume	344	645	0	0	983		4 - 6 Pk Volume	537	319	0	0	855							
Pk Hr Factor	0.905	0.954	0.000	0.000	0.931		Pk Hr Factor	0.907	0.906	0.000	0.000	0.946							