

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

January 19, 2023

TO: Community Planning/Sponsor Group Chairpersons

FROM: Secretary, Traffic Advisory Committee

MEETING NOTICE

Attached is the preliminary agenda for the January 27, 2023 meeting of the Traffic Advisory Committee (TAC).

This TAC meeting on January 27, 2023, will be conducted with a virtual meeting platform option. Please use this link below to join the meeting:

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 274 843 775 804

Passcode: wHedsk

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 619-343-2539,,171361270#](#) United States, San Diego

Phone Conference ID: 171 361 270#

[Find a local number](#) | [Learn More](#)

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,

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

KRJ:bb
Attachment



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

**January 27, 2023 ~ 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. Announcements / Public Forum**
- V. Items for Review**

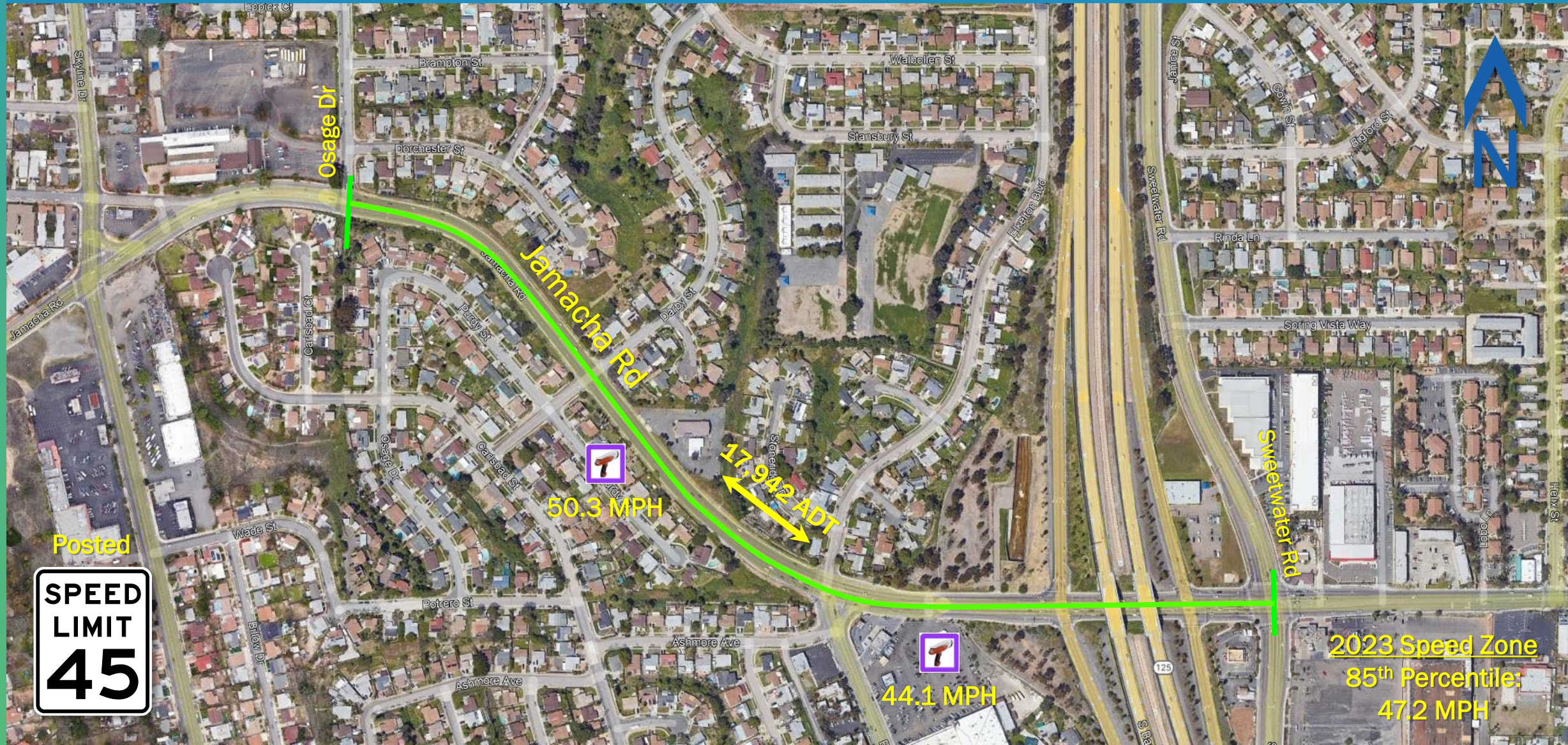
SUBJECT	LOCATION	AREA/ COMMUNITY GROUP
<u>SUPERVISORIAL DISTRICT 1</u>		
1-A. RADAR CERTIFICATION	JAMACHA ROAD OSAGE STREET TO SWEETWATER ROAD	SPRING VALLEY/ SPRING VALLEY CPG
1-B. RADAR CERTIFICATION	CENTRAL AVENUE BONITA ROAD TO CORRAL CANYON ROAD	BONITA/ SWEETWATER CPG
<u>SUPERVISORIAL DISTRICT 2</u>		
2-A. INTERSECTION CONTROLS	NINTH STREET & H STREET	RAMONA/ RAMONA CPG
2-B. INTERSECTION CONTROLS	RAMONA COUNTRY ESTATES - SIX INTERSECTIONS	RAMONA/ RAMONA CPG
<u>SUPERVISORIAL DISTRICT 5</u>		
5-A. RADAR CERTIFICATION	WEST LILAC ROAD CAMINO DEL REY TO OLD HIGHWAY 395	BONSALL/ BONSALL CSG

For information on joining the meeting via Microsoft Teams, please look for the meeting agenda on the Traffic Advisory Committee website at:

<https://www.sandiegocounty.gov/content/sdc/dpw/transportation/tacagenda.html>

Jamacha Road

Osage Drive to Sweetwater Road (0.70 miles)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: January 27, 2022

Item 1-A

SUPERVISORIAL DISTRICT: 1

SUBJECT: Radar Certification

LOCATION: Jamacha Road from Osage Street to Sweetwater Road
(a distance of 0.70 miles) SPRING VALLEY (Thos.
Bros. 1290-H2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Jamacha Road from Osage Street to Sweetwater Road is currently posted with a 45 MPH speed limit. A preliminary review of prevailing speeds and roadway conditions could support radar certification of the 45 MPH speed limit.

Existing Traffic Devices

This segment of Jamacha Road is a striped 4-lane divided road with a combined pavement width between 70 to 110 feet. The roadway is striped with a yellow left edge line and lane lines. The road is posted with a curve advisory sign and several signal ahead signs. Jamacha Road is classified as a Major Road on the County General Plan Mobility Element Network. The road is posted with a 45 MPH, radar enforced, speed limit.

Average Daily Traffic Volumes

Jamacha Road:

250' W/o Elkelton Boulevard

10/22

17,942

04/15

19,760

Speed Data

Jamacha Road:

250' E/o Darby Street

(2022)

**85th
Percentile**

50.3 MPH

(2015)

46.0 MPH

**10 MPH
Pace**

42-51

40-49

**% in
Pace**

66.0%

68.0%

400' E/o Elkelton Boulevard

(2023)

44.1 MPH

33-42

70.0%

Speed Zone

(2023)

47.2 MPH

38-47

68.0%

Collision Data

There have been 104 reported collisions, 35 of which involved an injury, along this segment of roadway in a 3-year period (2019-10-01 to 2022-09-30). These collisions result in a segment accident rate of 7.58 collisions per million vehicle miles. The statewide average is 1.18 collisions per million vehicle miles for similar suburban, divided 4 lane,

roads with speeds less than 55 MPH.



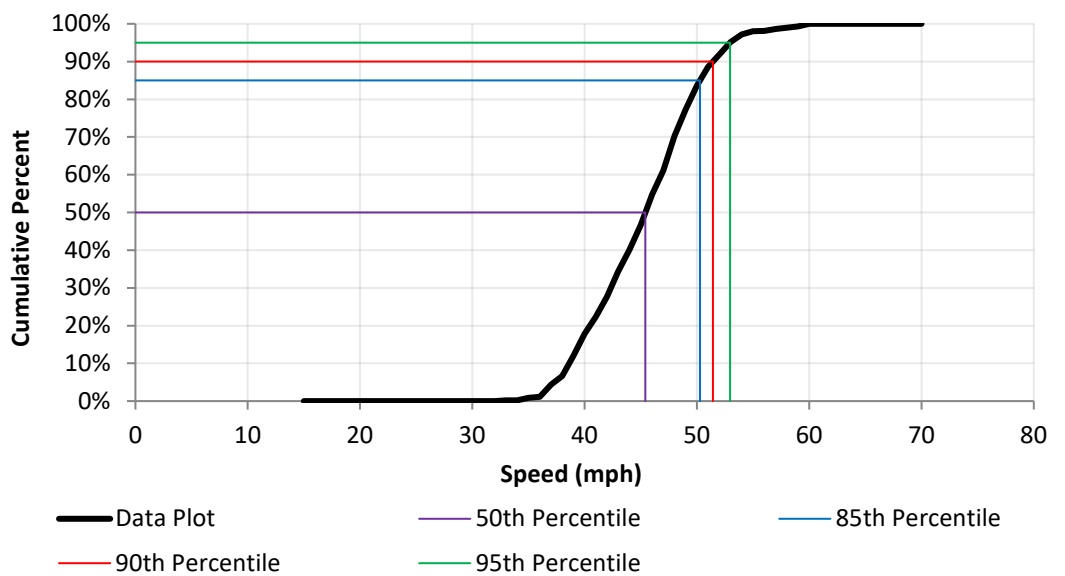
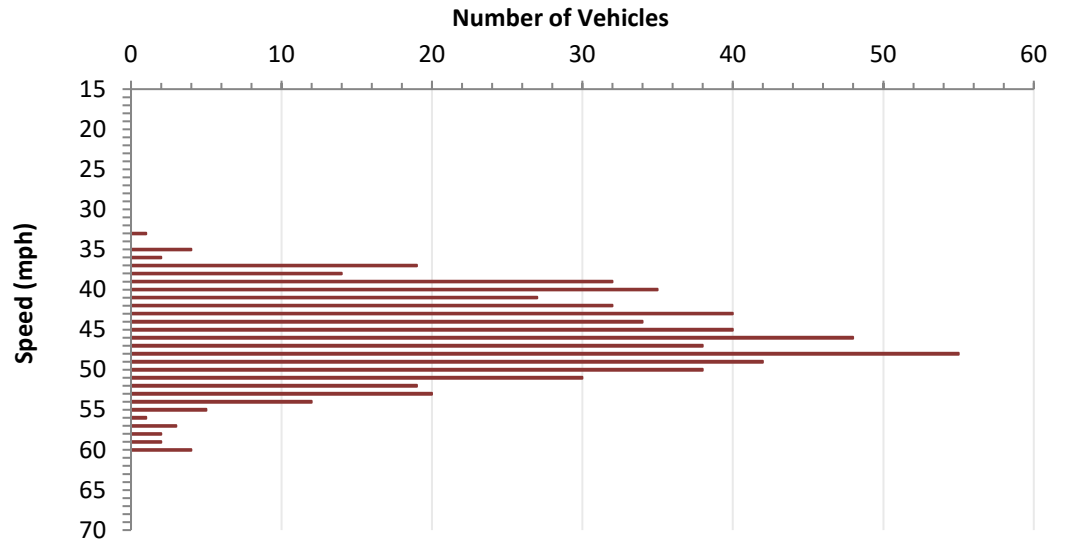
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jamacha Rd	From:	Sweetwater Rd	To:	Lemon Grove CL (at Osage St)
Position:	250' EO Darby St	Direction:	NB/SB		

Date:	9/28/2022	Weather:	Clear	Project Number:	22-040175-005
Time Start:	11:40 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:40 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	1	0.2%
34		
35	4	0.8%
36	2	1.2%
37	19	4.3%
38	14	6.7%
39	32	12.0%
40	35	17.9%
41	27	22.4%
42	32	27.7%
43	40	34.4%
44	34	40.1%
45	40	46.7%
46	48	54.8%
47	38	61.1%
48	55	70.3%
49	42	77.3%
50	38	83.6%
51	30	88.6%
52	19	91.8%
53	20	95.2%
54	12	97.2%
55	5	98.0%
56	1	98.2%
57	3	98.7%
58	2	99.0%
59	2	99.3%
60	4	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	599	



DATA ANALYSIS

Average Speed	45.7	Range	33 - 60
50th Percentile	45.4	10 mph Pace	42 - 51
85th Percentile	50.3	Number in Pace	397
90th Percentile	51.4	Percent in Pace	66%
95th Percentile	53.0		



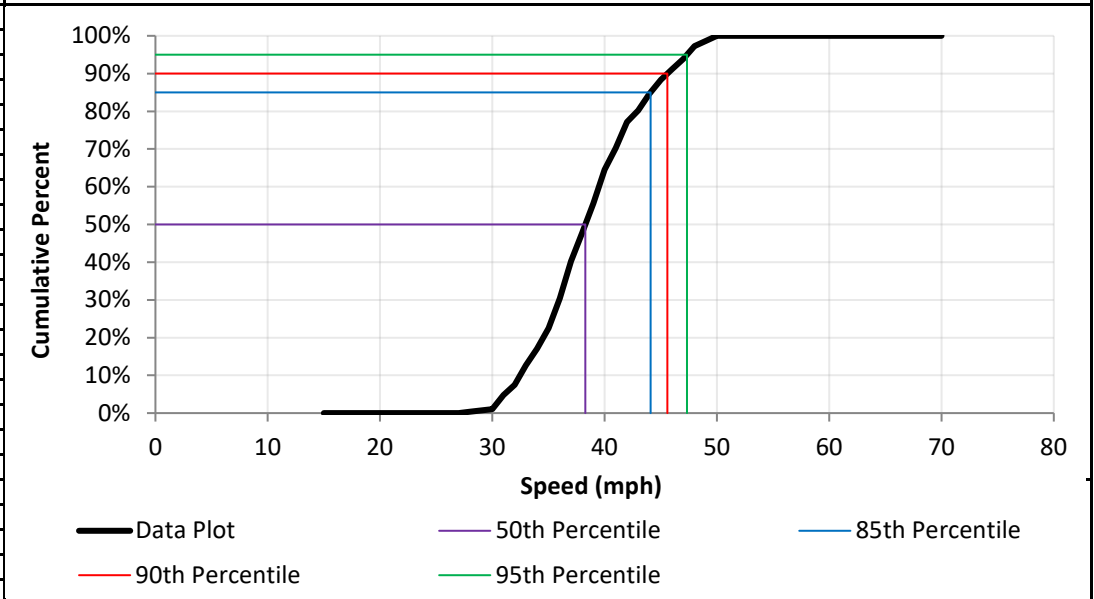
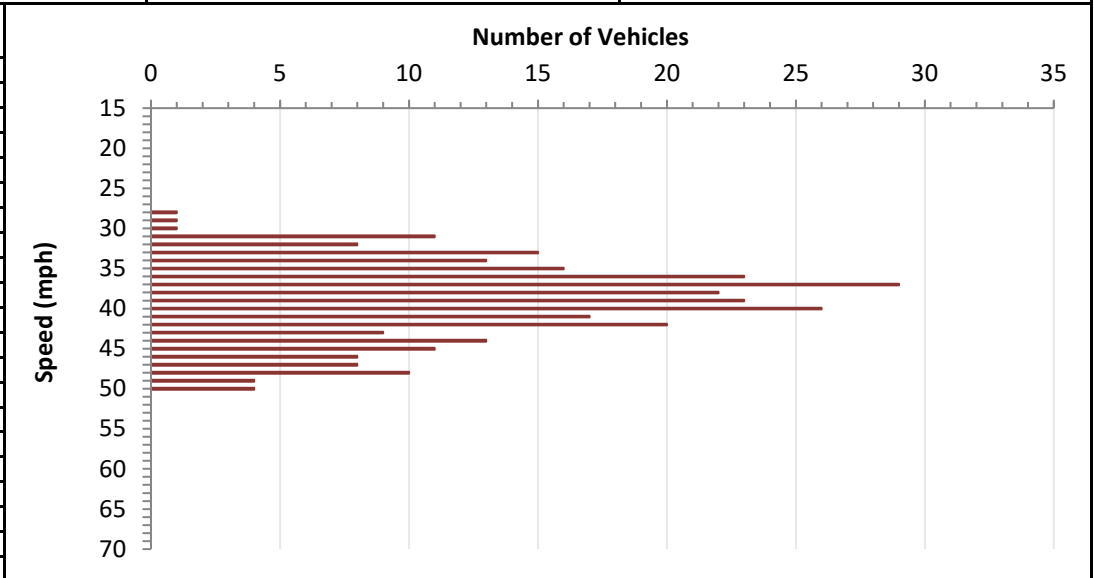
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Jamacha Rd	From:	Elkelton Bl	To:	Sweetwater Rd
Position:	400' E/o Elkelton Bl	Direction:	EB/WB		

Date:	1/11/2023	Weather:	Clear	Project Number:	23-040008-001
Time Start:	10:45 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	12:45 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	1	0.3%
29	1	0.7%
30	1	1.0%
31	11	4.8%
32	8	7.5%
33	15	12.6%
34	13	17.1%
35	16	22.5%
36	23	30.4%
37	29	40.3%
38	22	47.8%
39	23	55.6%
40	26	64.5%
41	17	70.3%
42	20	77.1%
43	9	80.2%
44	13	84.6%
45	11	88.4%
46	8	91.1%
47	8	93.9%
48	10	97.3%
49	4	98.6%
50	4	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	293	



DATA ANALYSIS

Average Speed	39.1	Range	28 - 50
50th Percentile	38.3	10 mph Pace	33 - 42
85th Percentile	44.1	Number in Pace	204
90th Percentile	45.6	Percent in Pace	70%
95th Percentile	47.3		

VOLUME

Jamacha Rd 250' W/O Elkelton Blvd

Day: Wednesday
Date: 10/12/2022

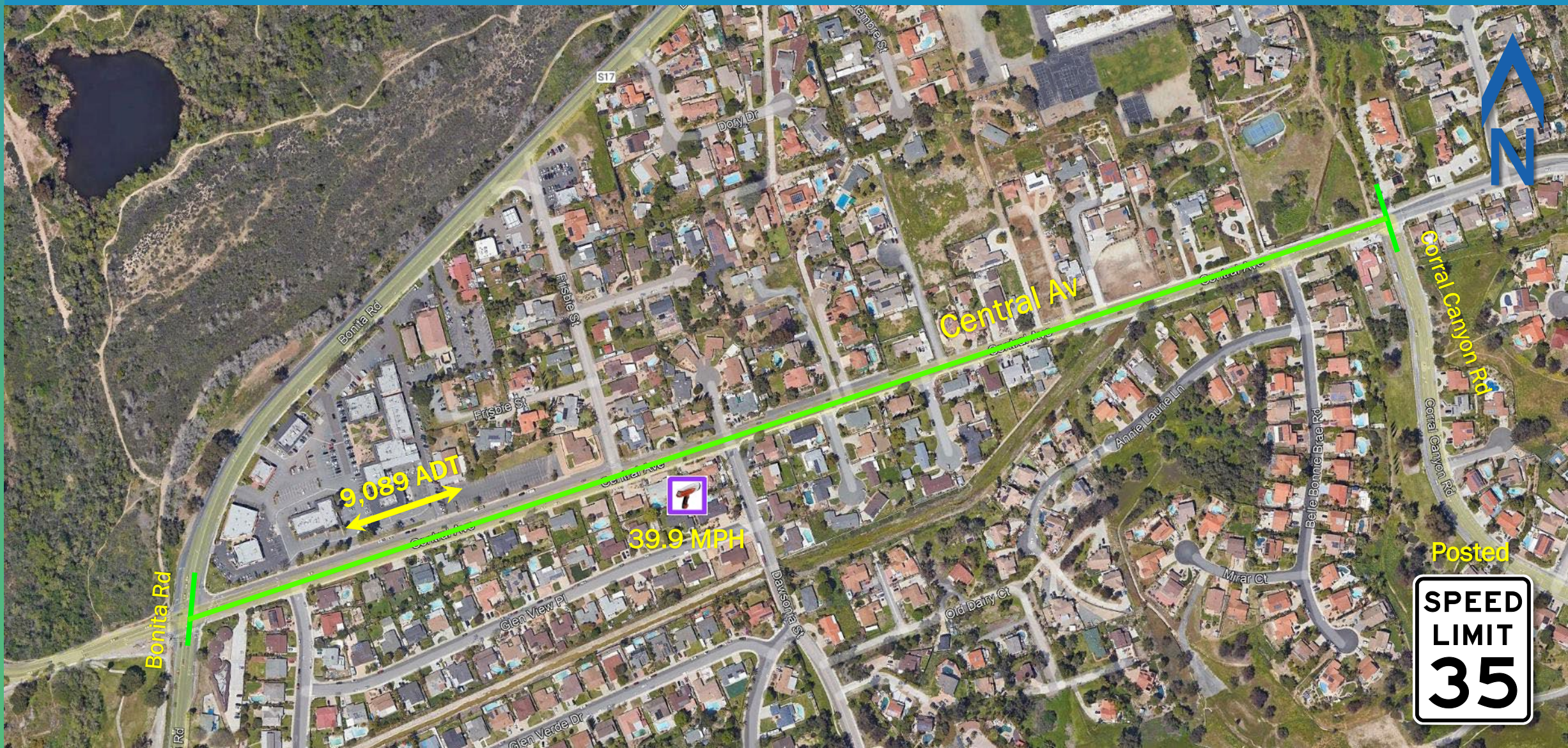
City: Spring Valley
Project #: CA22_040176_007

DAILY TOTALS					NB	SB	EBWB					Total	
					0	0						8,317	9,624
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			15	26	41		12:00			140	145	285	
00:15			12	36	48		12:15			131	173	304	
00:30			12	15	27		12:30			125	146	271	
00:45			8	47	13	90	12:45			139	535	166	630
					21	137						305	1165
01:00			6	16	22		13:00			117	132	249	
01:15			5	10	15		13:15			151	147	298	
01:30			5	16	21		13:30			121	136	257	
01:45			8	24	10	52	13:45			124	513	162	577
					18	76						286	1090
02:00			5	8	13		14:00			128	176	304	
02:15			11	11	22		14:15			132	135	267	
02:30			6	7	13		14:30			137	166	303	
02:45			6	28	12	38	14:45			147	544	157	634
					18	66						304	1178
03:00			6	11	17		15:00			132	161	293	
03:15			19	9	28		15:15			106	176	282	
03:30			19	9	28		15:30			133	214	347	
03:45			10	54	7	36	15:45			132	503	205	756
					17	90						337	1259
04:00			33	4	37		16:00			133	184	317	
04:15			29	19	48		16:15			122	197	319	
04:30			38	10	48		16:30			144	199	343	
04:45			39	139	16	49	16:45			114	513	212	792
					55	188						326	1305
05:00			53	14	67		17:00			142	196	338	
05:15			83	19	102		17:15			162	194	356	
05:30			95	28	123		17:30			149	205	354	
05:45			98	329	47	108	17:45			135	588	203	798
					145	437						338	1386
06:00			84	45	129		18:00			123	196	319	
06:15			93	45	138		18:15			130	210	340	
06:30			114	49	163		18:30			133	174	307	
06:45			84	375	101	240	18:45			110	496	197	777
					185	615						307	1273
07:00			111	100	211		19:00			119	153	272	
07:15			126	113	239		19:15			111	143	254	
07:30			133	114	247		19:30			93	127	220	
07:45			148	518	179	506	19:45			98	421	147	570
					327	1024						245	991
08:00			147	131	278		20:00			71	107	178	
08:15			130	128	258		20:15			83	124	207	
08:30			116	125	241		20:30			85	103	188	
08:45			108	501	109	493	20:45			73	312	89	423
					217	994						162	735
09:00			117	97	214		21:00			75	91	166	
09:15			116	96	212		21:15			75	87	162	
09:30			112	107	219		21:30			63	85	148	
09:45			134	479	111	411	21:45			52	265	80	343
					245	890						132	608
10:00			105	94	199		22:00			47	67	114	
10:15			114	94	208		22:15			36	58	94	
10:30			116	123	239		22:30			37	55	92	
10:45			118	453	103	414	22:45			22	142	61	241
					221	867						83	383
11:00			108	131	239		23:00			23	41	64	
11:15			102	112	214		23:15			28	32	60	
11:30			121	114	235		23:30			24	37	61	
11:45			116	447	131	488	23:45			16	91	48	158
					247	935						64	249
TOTALS			3394	2925	6319		TOTALS			4923	6699	11622	
SPLIT %			53.7%	46.3%	35.2%		SPLIT %			42.4%	57.6%	64.8%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						8,317	9,624						17,941
AM Peak Hour			07:30	11:45	07:30		PM Peak Hour			17:00	17:30	17:00							
AM Pk Volume			558	595	1110		PM Pk Volume			588	814	1386							
Pk Hr Factor			0.943	0.860	0.849		Pk Hr Factor			0.907	0.969	0.973							
7 - 9 Volume	0	0	1019	999	2018		4 - 6 Volume	0	0	1101	1590	2691							
7 - 9 Peak Hour			07:30	07:45	07:30		4 - 6 Peak Hour			17:00	16:45	17:00							
7 - 9 Pk Volume	0	0	558	563	1110		4 - 6 Pk Volume	0	0	588	807	1386							
Pk Hr Factor	0.000	0.000	0.943	0.786	0.849		Pk Hr Factor	0.000	0.000	0.907	0.952	0.973							

Central Avenue

Bonita Road to Corral Canyon Road (0.70 miles)



Posted
**SPEED
LIMIT
35**

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: January 27, 2023

Item 1-A

SUPERVISORIAL DISTRICT: 1

SUBJECT: Radar Certification

LOCATION: Central Avenue from Bonita Road to Corral Canyon Road (a distance of 0.70 miles) BONITA (Thos. Bros. 1310-J2)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Certification

PROBLEM AS STATED BY REQUESTER:

Central Avenue from Bonita Road to Corral Canyon Road has a posted speed limit of 35 MPH. A preliminary review of prevailing speeds and roadway conditions could support radar certification of a 35 MPH speed.

Existing Traffic Devices

This segment of Central Avenue is a striped 2-lane divided through highway between 32 feet and 62 feet wide. The roadway is striped with a two-way left turn lane. Central Avenue is intersection advisory signs, signal ahead signs, and school assembly signage. There is an uncontrolled crosswalk at Belle Bonnie Brae Road for the Sunnyside Elementary school rear pathway. Central Avenue is classified as a Light Collector on the County General Plan Mobility Element Network.

Average Daily Traffic Volumes

05/22

Central Avenue:

100' E/o Bonita Glen Terrace

9,089

Speed Data

**85th
Percentile**

**10 MPH
Pace**

**% in
Pace**

Central Avenue:

150' E/o Frisbie Street

(2022) 39.9 MPH

32-41

69.0%

Collision Data

There have been 5 reported collisions along this segment of roadway, 2 of which involved an injury, in a 3-year period (2019-10-01 to 2022-12-31). This collision results in a segment accident rate of 0.72 collisions per million vehicle miles. The statewide average is 1.60 collisions per million vehicle miles for similar suburban, conventional 2 lanes or less, roads with speeds less than 45 MPH.



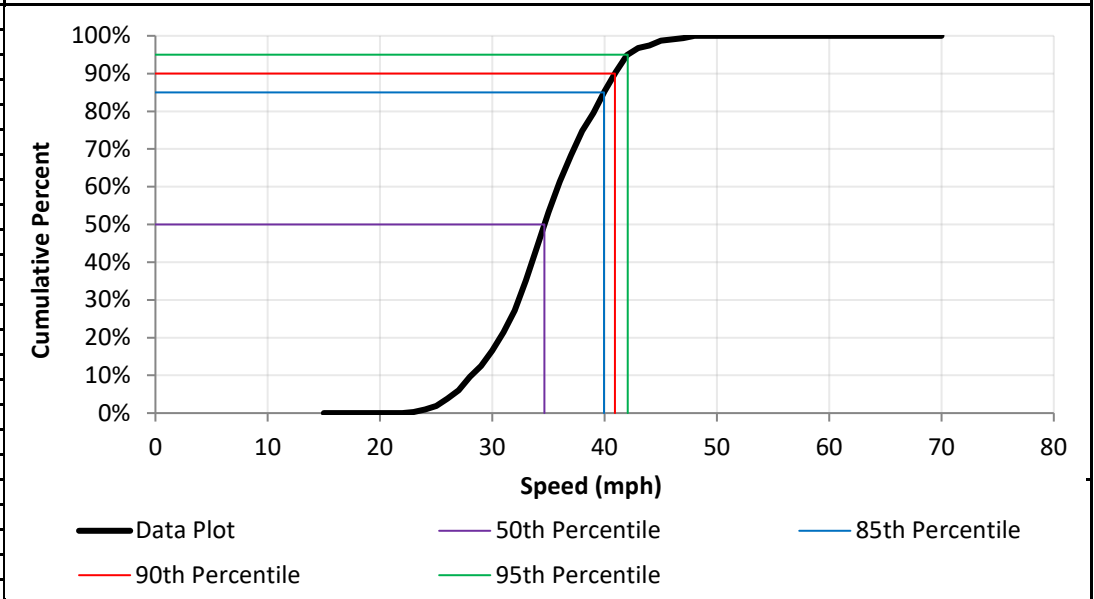
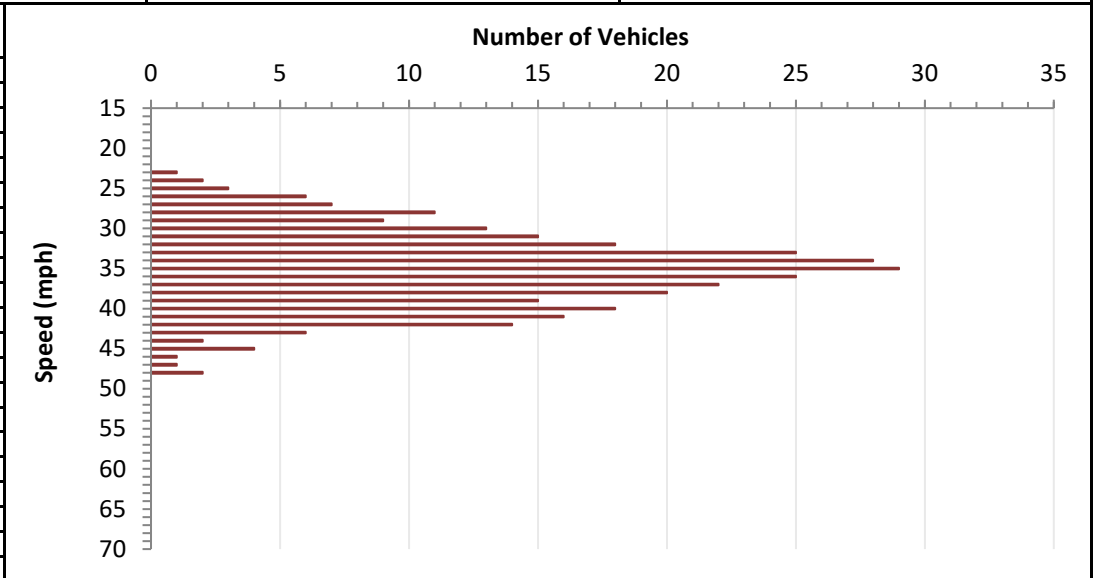
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Central Av	From: Bonita Rd	To: Corral Canyon Rd
Position:	150' EO Frisbie St	Direction:	WB/EB

Date:	11/23/2022	Weather:	Clear	Project Number:	N/A
Time Start:	11:45 AM	Road Condition:	Dry	Observer:	County
Time End:	12:45 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23	1	0.3%
24	2	1.0%
25	3	1.9%
26	6	3.8%
27	7	6.1%
28	11	9.6%
29	9	12.5%
30	13	16.6%
31	15	21.4%
32	18	27.2%
33	25	35.1%
34	28	44.1%
35	29	53.4%
36	25	61.3%
37	22	68.4%
38	20	74.8%
39	15	79.6%
40	18	85.3%
41	16	90.4%
42	14	94.9%
43	6	96.8%
44	2	97.4%
45	4	98.7%
46	1	99.0%
47	1	99.4%
48	2	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	313	



DATA ANALYSIS

Average Speed	35.2	Range	23 - 48
50th Percentile	34.6	10 mph Pace	32 - 41
85th Percentile	39.9	Number in Pace	216
90th Percentile	40.9	Percent in Pace	69%
95th Percentile	42.1		

VOLUME

Central Ave 100' E/O Bonita Glen Terrace

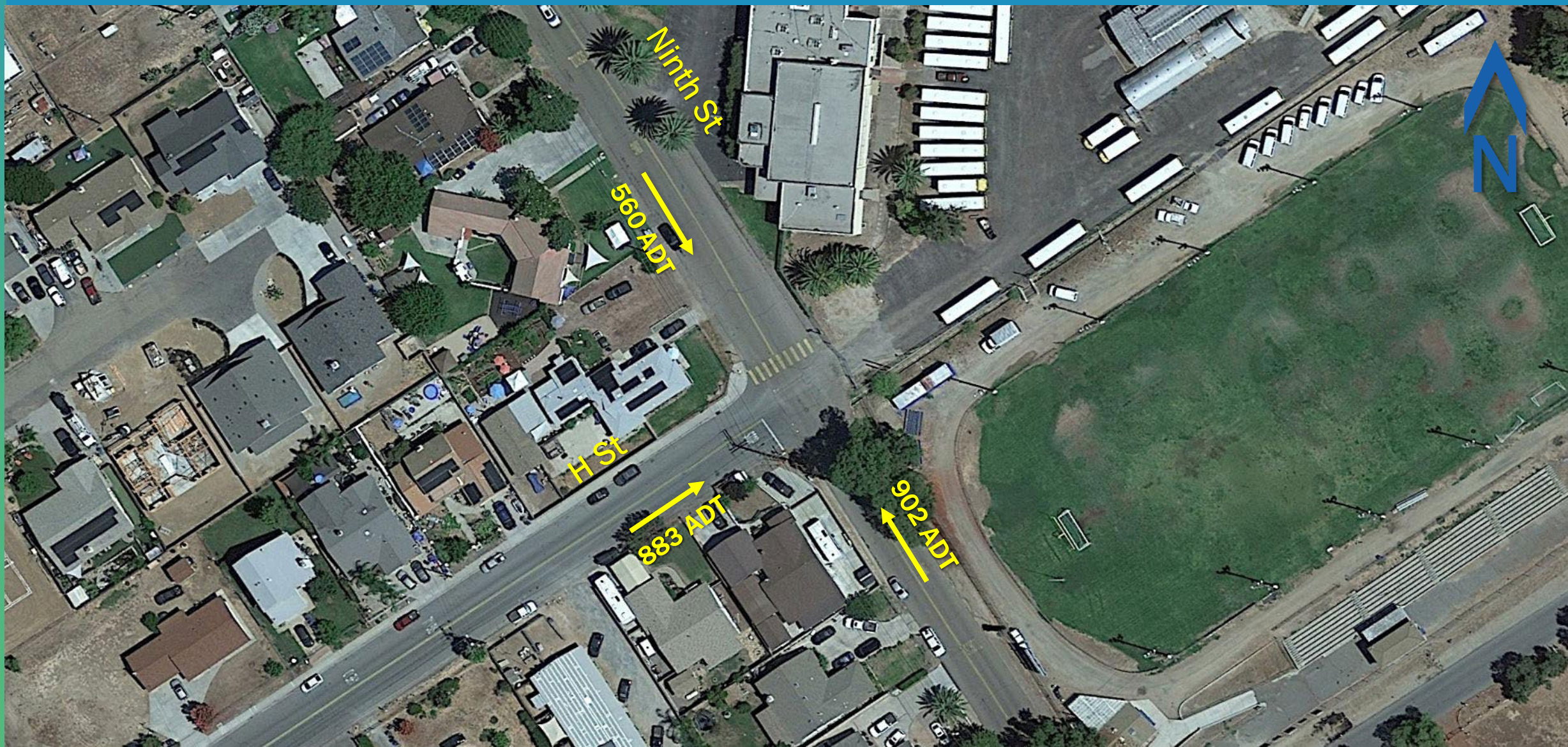
Day: Tuesday
Date: 5/10/2022City: Bonita/Sunnyside
Project #: CA22_040072_004

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						4,506	4,583						9,089
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
0:00			6	4	10		12:00			67	69	136							
0:15			8	2	10		12:15			76	75	151							
0:30			7	2	9		12:30			68	94	162							
0:45			4	25	3	11	12:45			77	288	108	346	185	634				
1:00			1	2	3		13:00			82	73	155							
1:15			0	2	2		13:15			70	60	130							
1:30			3	0	3		13:30			67	66	133							
1:45			1	5	0	4	13:45			76	295	75	274	151	569				
2:00			0	1	1		14:00			97	73	170							
2:15			3	0	3		14:15			102	115	217							
2:30			3	1	4		14:30			104	94	198							
2:45			1	7	0	2	14:45			82	385	76	358	158	743				
3:00			3	0	3		15:00			77	79	156							
3:15			2	2	4		15:15			92	87	179							
3:30			1	2	3		15:30			106	93	199							
3:45			2	8	3	7	15:45			95	370	76	335	171	705				
4:00			2	2	4		16:00			118	81	199							
4:15			3	2	5		16:15			91	83	174							
4:30			4	9	13		16:30			98	92	190							
4:45			2	11	14	27	16:45			105	412	69	325	174	737				
5:00			9	25	34		17:00			83	77	160							
5:15			5	39	44		17:15			92	67	159							
5:30			2	26	28		17:30			87	60	147							
5:45			8	24	34	124	17:45			80	342	63	267	143	609				
6:00			13	43	56		18:00			87	66	153							
6:15			15	48	63		18:15			93	54	147							
6:30			23	59	82		18:30			79	45	124							
6:45			37	88	83	233	18:45			89	348	38	203	127	551				
7:00			33	100	133		19:00			82	43	125							
7:15			43	106	149		19:15			80	32	112							
7:30			85	101	186		19:30			68	37	105							
7:45			77	238	83	390	19:45			57	287	42	154	99	441				
8:00			68	89	157		20:00			58	29	87							
8:15			50	82	132		20:15			48	31	79							
8:30			62	92	154		20:30			50	39	89							
8:45			60	240	98	361	20:45			47	203	38	137	85	340				
9:00			49	78	127		21:00			35	24	59							
9:15			48	74	122		21:15			36	22	58							
9:30			49	76	125		21:30			24	16	40							
9:45			47	193	66	294	21:45			28	123	15	77	43	200				
10:00			61	79	140		22:00			15	8	23							
10:15			58	71	129		22:15			24	12	36							
10:30			53	71	124		22:30			14	8	22							
10:45			57	229	73	294	22:45			25	78	10	38	35	116				
11:00			59	76	135		23:00			14	6	20							
11:15			57	71	128		23:15			10	3	13							
11:30			64	70	134		23:30			13	7	20							
11:45			79	259	87	304	23:45			11	48	2	18	13	66				
TOTALS			1327	2051	3378		TOTALS			3179	2532	5711							
SPLIT %			39.3%	60.7%	37.2%		SPLIT %			55.7%	44.3%	62.8%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						4,506	4,583						9,089
AM Peak Hour			11:45	6:45	7:15		PM Peak Hour			16:00	14:15	15:15							
AM Pk Volume			290	390	652		PM Pk Volume			412	364	748							
Pk Hr Factor			0.918	0.920	0.876		Pk Hr Factor			0.873	0.791	0.940							
7 - 9 Volume	0	0	478	751	1229		4 - 6 Volume	0	0	754	592	1346							
7 - 9 Peak Hour			7:30	7:00	7:15		4 - 6 Peak Hour			16:00	16:00	16:00							
7 - 9 Pk Volume	0	0	280	390	652		4 - 6 Pk Volume	0	0	412	325	737							
Pk Hr Factor	0.000	0.000	0.824	0.920	0.876		Pk Hr Factor	0.000	0.000	0.873	0.883	0.926							

Ninth Street & H Street

2-A. Intersection Controls



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: January 27, 2023 **Item 2-A**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Intersection Control

LOCATION: Ninth Street & H Street, RAMONA (Thos. Bros. 1152-H6)

INITIATED BY: DPW Traffic Engineering

REQUEST: All-Way Stop Control

PROBLEM AS STATED BY REQUESTER:

The intersection of Ninth Street and H Street has been identified by Traffic Engineering as meeting Option B, an intersection where there is a need to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes, and Option D, at an intersection of two residential collectors of similar design and the all-way stop would enhance the traffic operations of said intersection, of the Multi-Way Stop Application optional criteria as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 2B.07, therefore an all-way stop control should be considered.

Existing Traffic Devices

Ninth Street is a two-lane striped undivided highway with a 26-foot pavement width. The roadway is striped with a no passing centerline. Ninth Street is marked with an uncontrolled school crosswalk at the intersection with H Street. The road is signed with school zone signage including school speed limit assemblies, school crossing warning assemblies, and school warning assemblies. Ninth Street is unclassified on the County General Plan Mobility Element Network. The road has no posted speed limit.

H Street is a striped two-lane undivided highway with a 26-foot pavement width. The roadway is striped with a no passing centerline. H Street is signed with a school warning assembly. The road is stop controlled at the intersection with Fifth Street. H Street is unclassified on the County General Plan Mobility Element Network. The road has no posted speed limit.

Average Daily Traffic Volumes

11/22

Ninth Street:

N/o H Street	560 SB
S/o H Street	902 NB

H Street:

W/o Ninth Street	883 EB
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Pedestrian Crossing Count

01/23

AM Peak Hour Crossings

49 Peds

Ninth Street
& H Street
PM Peak Hour Crossings

2

Item 2-A

39 Peds

Collision Data

There have been 2 reported collision, 1 which involved an injury, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30). This collision results in an intersection accident rate of 0.47 collisions per million vehicles entering. The statewide average for similar tee intersections with some stop controls is 0.17 collisions per million vehicles entering.



County of San Diego

DEREK R. GADE
INTERIM DIRECTOR

DEPARTMENT OF PUBLIC WORKS
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TRAFFIC ENGINEERING STAFF RECOMMENDATION

Date: January 13, 2023 

Item Title: All-Way Stop Control

Location: 9th Street and H Street Intersection, Ramona

CTE Staff Recommendation: **Install an All-Way Stop Control**

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code (CVC) authorizes local agencies to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California Manual on Uniform Traffic Control Devices (MUTCD) provides guidelines that should and/or may be considered in an engineering study when evaluating an intersection for an all-way stop control.
- Option B of Section 2B.07 - An All-Way Stop Control may be considered to control vehicle/pedestrian conflicts near locations that generate high pedestrian volumes, such as schools. The subject intersection of 9th Street and H Street is located within Montessori Children's House (Daycare), Ramona Elementary school, and Montecito High school zone.
- In addition, Option D of section 2B.07 - An all-way stop control may be considered at an intersection of two residential collectors of similar design and the all-way stop would enhance the traffic operations of said intersection. Both 9th Street and H Street are residential collectors.
- Pursuant to CVC section 21354 coupled with traffic conditions noted above in accordance with Section 2B.07 of the California MUTCD, it is the County Traffic Engineering Section's recommendation that an All-Way Stop Control is appropriate and safe for the intersection of 9th Street and H Street.

VOLUME

9th St & H St

Day: Wednesday
Date: 11/30/2022City: Ramona
Project #: CA22_040203_003

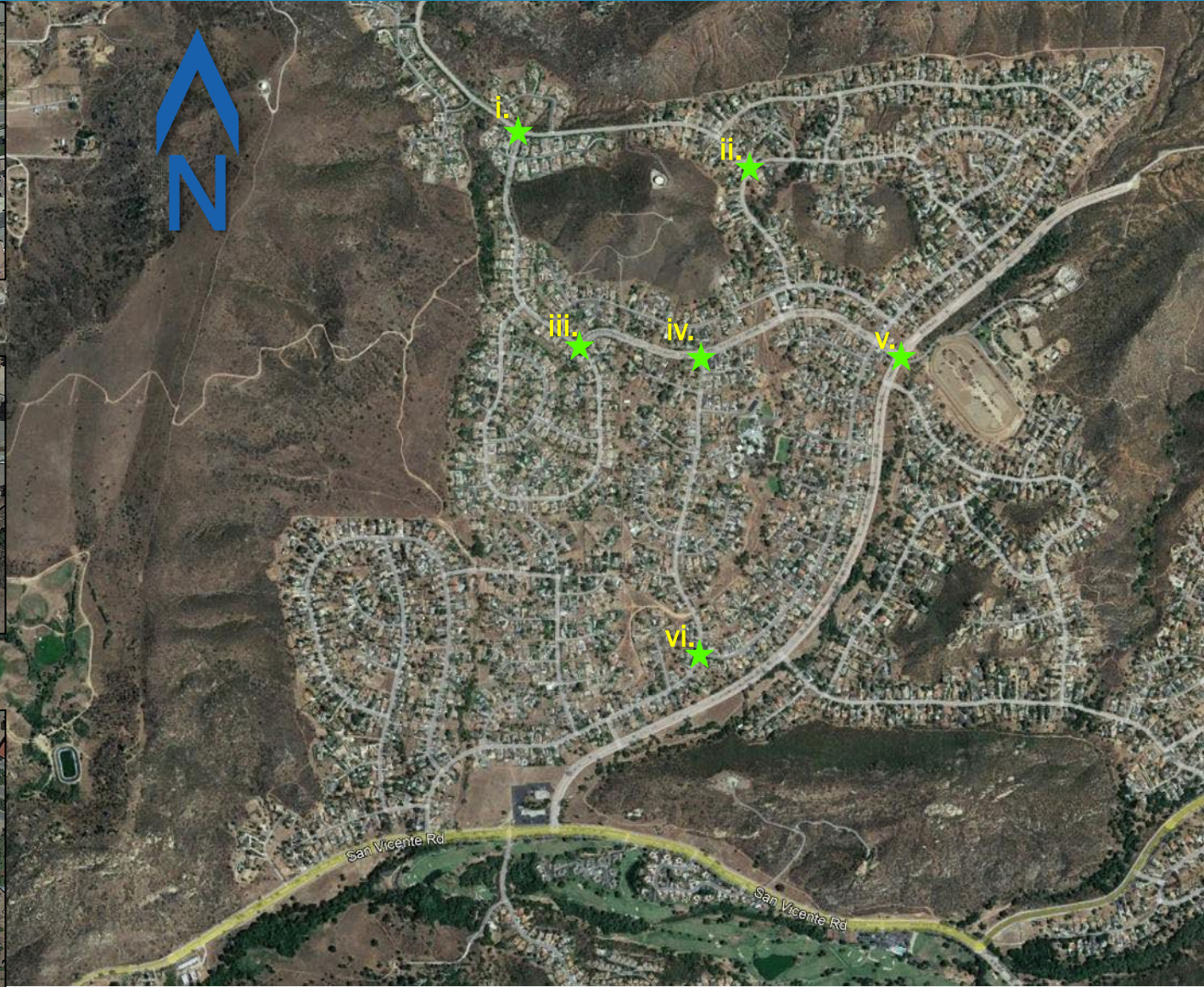
DAILY TOTALS					NB	SB	EB					WB	Total
					902	560	883					0	2,345
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
0:00	0	1	0		1	12:00	13	4	12		29		
0:15	2	1	0		3	12:15	19	6	30		55		
0:30	1	2	0		3	12:30	17	7	16		40		
0:45	0	3	0	4	0	12:45	15	64	12	29	42		
1:00	0	0	0		0	13:00	21	8	13		42		
1:15	0	0	0		0	13:15	14	3	19		36		
1:30	0	0	1		1	13:30	10	7	10		27		
1:45	0	0	0	1	0	13:45	22	67	14	32	48		
2:00	0	0	0		0	14:00	19	10	21		50		
2:15	0	1	0		1	14:15	14	15	19		48		
2:30	0	1	0		1	14:30	9	8	9		26		
2:45	0	0	2	0	0	14:45	18	60	9	42	52		
3:00	0	0	0		0	15:00	18	23	26		67		
3:15	0	0	0		0	15:15	27	15	27		69		
3:30	3	0	1		4	15:30	15	14	25		54		
3:45	0	3	0	1	0	15:45	18	78	16	68	48		
4:00	2	0	1		3	16:00	19	14	18		51		
4:15	1	0	0		1	16:15	26	14	30		70		
4:30	0	0	0		0	16:30	27	11	15		53		
4:45	1	4	0	1	2	16:45	20	92	7	46	47		
5:00	1	0	0		1	17:00	12	20	15		47		
5:15	0	0	1		1	17:15	7	13	13		33		
5:30	6	0	2		8	17:30	8	11	14		33		
5:45	4	11	5	5	8	17:45	16	43	9	53	36		
6:00	9	0	2		11	18:00	12	4	12		28		
6:15	7	1	4		12	18:15	9	10	11		30		
6:30	8	5	6		19	18:30	9	5	10		24		
6:45	14	38	5	11	4	18:45	14	44	4	23	24		
7:00	13	8	5		26	19:00	13	5	15		33		
7:15	26	8	13		47	19:15	11	8	11		30		
7:30	34	17	26		77	19:30	5	7	2		14		
7:45	31	104	17	50	19	19:45	3	32	3	23	12		
8:00	19	12	27		58	20:00	5	6	6		17		
8:15	43	24	43		110	20:15	1	2	6		9		
8:30	22	24	39		85	20:30	4	5	7		16		
8:45	16	100	4	64	10	20:45	3	13	3	16	14		
9:00	7	7	11		25	21:00	3	5	3		11		
9:15	8	10	13		31	21:15	1	1	5		7		
9:30	11	3	4		18	21:30	0	2	3		5		
9:45	11	37	4	24	5	21:45	2	6	2	10	7		
10:00	16	7	11		34	22:00	2	1	0		3		
10:15	10	12	12		34	22:15	0	1	6		7		
10:30	12	7	12		31	22:30	0	2	3		5		
10:45	16	54	3	29	7	22:45	1	3	0	4	2		
11:00	10	3	11		24	23:00	1	0	1		2		
11:15	6	8	14		28	23:15	0	0	0		0		
11:30	12	6	10		28	23:30	1	1	0		2		
11:45	15	43	7	24	9	23:45	1	3	0	1	1		
TOTALS	397	213	329		939	TOTALS	505	347	554		1406		
SPLIT %	42.3%	22.7%	35.0%		40.0%	SPLIT %	35.9%	24.7%	39.4%		60.0%		

DAILY TOTALS					NB	SB						EB	WB						Total
					902	560						883	0						2,345
AM Peak Hour	7:30	7:45	7:45		7:45		PM Peak Hour	16:00	15:00	14:45		14:45							14:45
AM Pk Volume	127	77	128		320		PM Pk Volume	92	68	103		242							242
Pk Hr Factor	0.738	0.802	0.744		0.727		Pk Hr Factor	0.852	0.739	0.954		0.877							0.877
7 - 9 Volume	204	114	182	0	500		4 - 6 Volume	135	99	136	0	370							370
7 - 9 Peak Hour	7:30	7:45	7:45		7:45		4 - 6 Peak Hour	16:00	17:00	16:00		16:00							16:00
7 - 9 Pk Volume	127	77	128	0	320		4 - 6 Pk Volume	92	53	83	0	221							221
Pk Hr Factor	0.738	0.802	0.744	0.000	0.727		Pk Hr Factor	0.852	0.663	0.692	0.000	0.789							0.789

SCHOOL PEDESTRIAN COUNT STUDY			
Date: January 12, 2023		Day: Thursday	
Observer: Ben B. & Meghan V.			
School Name: Montecito High School			School Name: Ramona Elementary School
Start Time: 8:00 AM	End Time: 1:10 PM		Start Time: 7:45 AM End Time: 1:51 PM
School Name: Montessori Children's House			School Name: Montessori Children's Elementary
Start Time: 8:30 AM	End Time: 3:00 PM		Start Time: 8:00 AM End Time: 3:00 PM
Road Name: Ninth St & H St		Direction: N/S & E/W	
Posted Speed: Unposted (25MPH School Zone)		Conditions: Dry	
Location: Ninth St & H St			
Time Interval			AM
7:00 AM	to	7:15 AM	3
7:15 AM	to	7:30 AM	0
7:30 AM	to	7:45 AM	2
7:45 AM	to	8:00 AM	2
8:00 AM	to	8:15 AM	7
8:15 AM	to	8:30 AM	20
8:30 AM	to	8:45 AM	20
8:45 AM	to	9:00 AM	1
Drop-off Total:			55
1-Hour Peak:			49
Location: Ninth St & H St			
Time Interval			PM
12:55 PM	to	1:10 PM	0
1:10 PM	to	1:25 PM	8
1:25 PM	to	1:40 PM	3
1:40 PM	to	1:55 PM	3
1:55 PM	to	2:10 PM	4
2:10 PM	to	2:25 PM	0
2:25 PM	to	2:40 PM	3
2:40 PM	to	2:55 PM	7
2:55 PM	to	3:10 PM	23
3:10 PM	to	3:25 PM	6
Pick-Up Total:			57
1-Hour Peak:			39

San Diego Country Estates

6 Intersections



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: January 27, 2023

Item 2-B

SUPERVISORIAL DISTRICT: 2

SUBJECT: Intersection Controls

LOCATION: SAN DIEGO COUNTRY ESTATES

- i. Vista Ramona Road & Arena Way (Thos. Bros. 1173-D1)
- ii. Vista Ramona Road & Sargeant Road (Thos. Bros. 1173-E1)
- iii. Arena Way & Open View Road (south intersection) (Thos. Bros. 1173-D2)
- iv. Arena Way & Arena Drive (Thos. Bros. 1173-E2)
- v. Arena Way & Gunn Stage Road (Thos. Bros. 1173-E2)
- vi. Arena Drive & Del Amo Road (Thos. Bros. 1173-E3)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Certification

PROBLEM AS STATED BY REQUESTER:

The intersections of Vista Ramona Road & Arena Way, Vista Ramona Road & Sargeant Road, Arena Way & Open View Road, Arena Way & Arena Drive, Arena Way & Gunn Stage Road, and Arena Drive & Del Amo Road have been identified by Traffic Engineering as meeting Option D, an intersection of two residential collectors of similar design and the all way stop would enhance the traffic operations of said intersection, of the Multi-Way Stop Application optional criteria as described in the California Manual on Uniform Traffic Control Devices (CA MUTCD), Section 2B.07, therefore all-way stop controls should be considered. All-way stop controls at these intersections will enhance the safety of the vehicular traffic as well as the resident bicylists and pedestrians within the community and provide a network of intersection controls for an overall community safety of all road users.

Existing Traffic Devices

Vista Ramona Road is a striped two lane highway with a varying pavement width of 32 to 40 feet. The roadway is striped with a no passing centerline and white edgeline. Between Timber Passage and Prairie Mile Road, Vista Ramona Road is striped as a divided highway with a two-way left turn lane. Vista Ramona Road is a Community Collector on the County General Plan Mobility Element Network. The road is posted with a 35 MPH, radar enforced, speed limit. The road is a designated through highway. Vista Ramona Road is uncontrolled at the intersections with Arena Way and Sargeant Road.

Sargeant Road is a two lane undivided highway with a pavement width of 40 feet. The roadway is striped with a no passing centerline and white edgeline south of the intersection with Vista Ramona Road. It is unstriped north of said intersection. Sargeant Road is a Community Collector on the County General Plan Mobility Element Network. The road is a designated through highway. The road is posted with a 35 MPH, radar enforced, speed limit. Sargeant Road is stop controlled at Vista Ramona Road.

Arena Way is a striped two lane highway with a varying pavement width of 36 to 64 feet. The roadway is striped with a no passing centerline between Vista Ramona Road and the southern intersection with Open View Road. Between the southern intersection of Open View Road and Gunn Stage Road, Arena Way is a divided roadway with left edgeline striping adjacent to a 22 foot planted median. The road is posted with a 25 MPH, radar enforced, speed limit from 420 feet south of Calle Ovieda to the southern intersection of Open View Road. Between the southern intersection with Open View Road and Gunn Stage Road, Arena Way is posted with a 40 MPH, radar enforced, speed limit. Arena Way is unclassified on the County General Plan Mobility Element Network. The road is a designated through highway. Arena Way is currently uncontrolled at the intersections with Open View Road, in the south bound direction, and Arena Drive. The road is stop controlled at the intersections with Vista Ramona Road, Open View Road, in the westbound direction, and Gunn Stage Road.

Open View Road is an unstriped two lane undivided highway with at pavement width of 36 feet. The road is posted with a 25 MPH speed limit. Open View Road is unclassified on the County General Plan Mobility Element Network. The road is uncontrolled at the southern intersection with Arena Way.

Arena Drive is a striped two lane undivided highway with a pavement width of 40 feet. The roadway is striped with a no passing centerline and white edgeline between Arena Way and Del Amo Road. Between Del Amo Road and San Vicente Road the roadway is striped with soley a no passing centerline. The road is posted with a 25 MPH speed limit. Arena Drive is unclassified on the County General Plan Mobility Element Network. The road is a designated through highway. Arena Drive is stop controlled at the intersection with Arena Way and is uncontrolled at the intersection with Del Amo Road.

Del Amo Road is a striped two lane undivided highway with a pavement width of 40 feet. The roadway is striped with a no passing centerline. The road is posted with a 25 MPH speed limit. Del Amo Road is unclassified on the County General Plan Mobility Element Network. The road is a designated through highway. Del Amo Road is stop controlled at the intersection with Arena Drive.

Gunn Stage Road is a striped two and four lane divided highway with a combined pavement width of 82 feet. The roadway is striped with lane lines south of Watt Road. North of Watt Road to the end the roadway is unstriped. The roadway is divided with a planted median. Gunn Stage Road is posted with a 45 MPH speed limit. The road is a Community Collector on the County General Plan Mobility Element Network. The road is a designated through highway. Gunn Stage Road is uncontrolled at the intersection with Arena Way.

Average Daily Traffic Volumes**12/21**

i. Vista Ramona Road & Arena Way:

Vista Ramona Road:

W/o Arena Way

1,933 EB

E/o Arena Way

719 WB

ii. Vista Ramona Road & Sargeant Road:

Sargeant Road:

E/o Vista Ramona Road

226 WB

S/o Vista Ramona Road

369 NB

iii. Arena Way & Open View Road:

Arena Way:

N/o Open View Road

1,164 SB

Open View Road:

S/o Arena Way

184 NB

iv. Arena Way & Arena Drive

Arena Way:

W/o Arena Drive

1,315 EB

v. Arena Way & Gunn Stage Road

Gunn Stage Road:

S/o Arena Way

1,671 NB

vi. Arena Drive & Del Amo Road:

Arena Drive:

S/o Del Amo Road

881 NB

Collision Data

i. There has been 1 reported collision, which involved an injury, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30).

ii. There have been no reported collisions, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30).

iii. There have been no reported collisions, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30).

iv. There have been 2 reported collisions, 1 of which involved an injury and fatality, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30).

v. There have been no reported collisions, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30).

vi. There has been 1 reported collision, at this intersection, within a past 5-year period (2017-10-01 to 2022-09-30).



County of San Diego

DEREK R. GADE
INTERIM DIRECTOR

DEPARTMENT OF PUBLIC WORKS
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COUNTY TRAFFIC ENGINEERING STAFF RECOMMENDATION

Date: January 13, 2023 

Item Title: All-Way Stop Controls

Location: Intersections of:

- a) Vista Ramona Road & Arena Way
- b) Vista Ramona Road & Sargeant Road
- c) Arena Way & Arena Way / Open View Road
- d) Arena Way & Arena Drive
- e) Arena Way & Gunn Stage Road
- f) Arena Drive & Del Amo Road

CTE Staff Recommendation: **Install All-Way Stop Controls**

Conditions:

- Section 21354 "Stop Signs on Local Highways" of the California Vehicle Code (CVC) authorizes local agencies to designate any intersection under its exclusive jurisdiction as a stop intersection.
- Section 2B.07 "Multi-Way Stop Applications" of the California Manual on Uniform Traffic Control Devices (MUTCD) provides guidelines that should and/or may be considered in an engineering study when evaluating an intersection for an all-way stop control.
- In addition, Option D of section 2B.07 - An all-way stop control may be considered at an intersection of two residential collectors of similar design and operating characteristics where an all-way stop control would improve the traffic operations of the intersection.
- Vista Ramona Road, Arena Way, Sargeant Road, Open View Road, Arena Drive, Del Amo Road and Gunn Stage Road are roadways within the San Diego Country Estates residential area with similar design and traffic

characteristics and are considered residential collectors (based on measured volumes) serving the residential neighborhood of San Diego Country Estates.

- An All-way Stop Control at these six residential collector intersections will not only enhance the safety of the vehicular traffic but also the resident bikers and walkers within the community and provide a network of intersection controls for an overall community safety of all road users.
- Pursuant to CVC section 21354 coupled with traffic conditions noted above in accordance with Section 2B.07 of the California MUTCD, it is staff recommendation that All-Way Stop Control is appropriate and safe for the intersections of: Vista Ramona Road & Arena Way, Vista Ramona Road & Sargeant Road, Arena Way & Arena Way / Open View Road, Arena Way & Arena Drive, Arena Way & Gunn Stage Road, Arena Drive & Del Amo Road

VOLUME

Vista Ramona Rd 400' N/O Calle Andrea

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_012

DAILY TOTALS					NB	SB						EB	WB						Total
					1,713	1,933						0	0						3,646
AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL			
00:00	0		2		0	0	2		12:00	22		21		0	0	43			
00:15	2		1		0	0	3		12:15	33		21		0	0	54			
00:30	0		2		0	0	2		12:30	26		32		0	0	58			
00:45	1	3	0	5	0	0	1	8	12:45	15	96	25	99	0	0	40	195		
01:00	0		0		0	0			13:00	27		38		0	0	65			
01:15	0		0		0	0			13:15	23		38		0	0	61			
01:30	0		0		0	0			13:30	23		57		0	0	80			
01:45	0		0		0	0			13:45	38	111	59	192	0	0	97	303		
02:00	0		1		0	0	1		14:00	56		25		0	0	81			
02:15	0		3		0	0	3		14:15	26		30		0	0	56			
02:30	0		0		0	0			14:30	33		35		0	0	68			
02:45	0		1	5	0	0	1	5	14:45	40	155	29	119	0	0	69	274		
03:00	0		0		0	0			15:00	32		34		0	0	66			
03:15	1		0		0	0	1		15:15	41		49		0	0	90			
03:30	3		1		0	0	4		15:30	31		48		0	0	79			
03:45	1	5	0	1	0	0	1	6	15:45	31	135	53	184	0	0	84	319		
04:00	2		1		0	0	3		16:00	44		39		0	0	83			
04:15	2		0		0	0	2		16:15	36		38		0	0	74			
04:30	6		1		0	0	7		16:30	61		43		0	0	104			
04:45	4	14	1	3	0	0	5	17	16:45	66	207	73	193	0	0	139	400		
05:00	5		3		0	0	8		17:00	35		134		0	0	169			
05:15	7		3		0	0	10		17:15	20		79		0	0	99			
05:30	15		0		0	0	15		17:30	25		51		0	0	76			
05:45	19	46	4	10	0	0	23	56	17:45	21	101	38	302	0	0	59	403		
06:00	11		3		0	0	14		18:00	19		34		0	0	53			
06:15	21		11		0	0	32		18:15	22		25		0	0	47			
06:30	22		6		0	0	28		18:30	7		17		0	0	24			
06:45	25	79	6	26	0	0	31	105	18:45	13	61	27	103	0	0	40	164		
07:00	20		18		0	0	38		19:00	9		15		0	0	24			
07:15	40		44		0	0	84		19:15	12		13		0	0	25			
07:30	56		60		0	0	116		19:30	13		20		0	0	33			
07:45	86	202	25	147	0	0	111	349	19:45	4	38	18	66	0	0	22	104		
08:00	51		18		0	0	69		20:00	8		11		0	0	19			
08:15	29		30		0	0	59		20:15	6		15		0	0	21			
08:30	27		23		0	0	50		20:30	11		15		0	0	26			
08:45	31	138	25	96	0	0	56	234	20:45	13	38	17	58	0	0	30	96		
09:00	21		21		0	0	42		21:00	3		15		0	0	18			
09:15	23		17		0	0	40		21:15	2		2		0	0	4			
09:30	18		15		0	0	33		21:30	0		11		0	0	11			
09:45	18	80	17	70	0	0	35	150	21:45	2	7	6	34	0	0	8	41		
10:00	16		26		0	0	42		22:00	2		11		0	0	13			
10:15	20		20		0	0	40		22:15	1		6		0	0	7			
10:30	24		19		0	0	43		22:30	0		5		0	0	5			
10:45	23	83	25	90	0	0	48	173	22:45	1	4	4	26	0	0	5	30		
11:00	27		25		0	0	52		23:00	2		5		0	0	7			
11:15	22		17		0	0	39		23:15	0		3		0	0	3			
11:30	20		22		0	0	42		23:30	3		1		0	0	4			
11:45	32	101	28	92	0	0	60	193	23:45	4	9	3	12	0	0	7	21		
TOTALS	751		545				1296		TOTALS	962		1388				2350			
SPLIT %	57.9%		42.1%				35.5%		SPLIT %	40.9%		59.1%				64.5%			

DAILY TOTALS					NB	SB						EB	WB						Total
					1,713	1,933						0	0						3,646
AM Peak Hour	07:15	07:00			07:15		PM Peak Hour	16:00	16:45			16:30							
AM Pk Volume	233	147			380		PM Pk Volume	207	337			511							
Pk Hr Factor	0.677	0.613			0.819		Pk Hr Factor	0.784	0.629			0.756							
7 - 9 Volume	340	243	0	0	583		4 - 6 Volume	308	495	0	0	803							
7 - 9 Peak Hour	07:15	07:00			07:15		4 - 6 Peak Hour	16:00	16:45			16:30							
7 - 9 Pk Volume	233	147	0	0	380		4 - 6 Pk Volume	207	337	0	0	511							
Pk Hr Factor	0.677	0.613	0.000	0.000	0.819		Pk Hr Factor	0.784	0.629	0.000	0.000	0.756							

VOLUME

Vista Ramona Rd 800' E/O Prairie Mile Rd

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_011

DAILY TOTALS					NB	SB	EB					WB	Total		
					0	0	665					719	1,384		
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	0	0			12:00	0	0	12	9	21			
00:15	0	0	0	0			12:15	0	0	13	12	25			
00:30	0	0	0	0			12:30	0	0	12	14	26			
00:45	0	0	1	1	0	1	12:45	0	0	10	47	14	49	24	96
01:00	0	0	0	0			13:00	0	0	8	13	21			
01:15	0	0	0	1	1		13:15	0	0	8	14	22			
01:30	0	0	0	0			13:30	0	0	9	23	32			
01:45	0	0	0	0	1	1	13:45	0	0	14	39	18	68	32	107
02:00	0	0	0	1	1		14:00	0	0	15	13	28			
02:15	0	0	1	1	2		14:15	0	0	4	9	13			
02:30	0	0	0	0			14:30	0	0	19	18	37			
02:45	0	0	0	1	0	2	14:45	0	0	18	56	18	58	36	114
03:00	0	0	0	0			15:00	0	0	13	16	29			
03:15	0	0	2	0	2		15:15	0	0	20	20	40			
03:30	0	0	2	0	2		15:30	0	0	11	21	32			
03:45	0	0	1	5	0	1	15:45	0	0	17	61	27	84	44	145
04:00	0	0	1	1	2		16:00	0	0	23	19	42			
04:15	0	0	1	0	1		16:15	0	0	14	19	33			
04:30	0	0	0	1	1		16:30	0	0	9	28	37			
04:45	0	0	1	3	0	2	16:45	0	0	6	52	19	85	25	137
05:00	0	0	2	0	2		17:00	0	0	3	19	22			
05:15	0	0	6	0	6		17:15	0	0	12	13	25			
05:30	0	0	8	0	8		17:30	0	0	11	9	20			
05:45	0	0	5	21	0	5	17:45	0	0	6	32	19	60	25	92
06:00	0	0	2	2	4		18:00	0	0	4	12	16			
06:15	0	0	14	6	20		18:15	0	0	8	14	22			
06:30	0	0	12	2	14		18:30	0	0	9	6	15			
06:45	0	0	18	46	2	12	18:45	0	0	7	28	15	47	22	75
07:00	0	0	12	6	18		19:00	0	0	5	7	12			
07:15	0	0	17	10	27		19:15	0	0	4	5	9			
07:30	0	0	21	9	30		19:30	0	0	3	9	12			
07:45	0	0	27	77	11	36	19:45	0	0	0	12	9	30	9	42
08:00	0	0	22	7	29		20:00	0	0	4	5	9			
08:15	0	0	13	10	23		20:15	0	0	2	5	7			
08:30	0	0	10	3	13		20:30	0	0	5	4	9			
08:45	0	0	10	55	9	29	20:45	0	0	8	19	7	21	15	40
09:00	0	0	7	10	17		21:00	0	0	0	9	9			
09:15	0	0	11	5	16		21:15	0	0	1	1	2			
09:30	0	0	11	7	18		21:30	0	0	0	2	2			
09:45	0	0	9	38	9	31	21:45	0	0	0	1	3	15	3	16
10:00	0	0	6	10	16		22:00	0	0	0	1	1			
10:15	0	0	6	10	16		22:15	0	0	0	2	2			
10:30	0	0	8	6	14		22:30	0	0	0	2	2			
10:45	0	0	7	27	6	32	22:45	0	0	0	4	9		4	9
11:00	0	0	9	16	25		23:00	0	0	2	4	6			
11:15	0	0	7	7	14		23:15	0	0	0	1	1			
11:30	0	0	9	9	18		23:30	0	0	1	0	1			
11:45	0	0	15	40	9	41	23:45	0	0	1	4	2	7	3	11
TOTALS	314				186		TOTALS	351				533		884	
SPLIT %	62.8%				37.2%		SPLIT %	39.7%				60.3%		63.9%	

DAILY TOTALS					NB	SB	EB					WB	Total				
					0	0	665					719	1,384				
AM Peak Hour					07:15		11:45		07:15		15:15		15:45		15:15		
AM Pk Volume					87		44		124		71		93		158		
Pk Hr Factor					0.806		0.786		0.816		0.772		0.830		0.898		
7 - 9 Volume					0		0		132		84		145		229		
7 - 9 Peak Hour					07:15		07:15		07:15		16:00		16:00		16:00		
7 - 9 Pk Volume					0		0		87		52		85		137		
Pk Hr Factor					0.000		0.000		0.806		0.565		0.759		0.815		

VOLUME

Sargeant Rd 200' E/O Abrigo Way

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_008

DAILY TOTALS					NB	SB	EB					WB	Total		
					0	0	213					226	439		
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	0	0			12:00	0	0	1	4	5			
00:15	0	0	0	0			12:15	0	0	4	5	9			
00:30	0	0	0	0			12:30	0	0	5	6	11			
00:45	0	0	0	0			12:45	0	0	5	15	2	17	7	32
01:00	0	0	0	0			13:00	0	0	2	4	6			
01:15	0	0	0	0			13:15	0	0	3	7	10			
01:30	0	0	0	0			13:30	0	0	3	8	11			
01:45	0	0	0	0			13:45	0	0	4	12	2	21	6	33
02:00	0	0	0	0			14:00	0	0	5	4	9			
02:15	0	0	1	0	1		14:15	0	0	6	2	8			
02:30	0	0	0	0			14:30	0	0	3	4	7			
02:45	0	0	0	1	0	1	14:45	0	0	0	14	4	14	4	28
03:00	0	0	0	0			15:00	0	0	4	4	8			
03:15	0	0	0	1	1		15:15	0	0	5	6	11			
03:30	0	0	0	0			15:30	0	0	5	6	11			
03:45	0	0	0	0	1	1	15:45	0	0	6	20	4	20	10	40
04:00	0	0	0	1	1		16:00	0	0	8	3	11			
04:15	0	0	0	0			16:15	0	0	1	7	8			
04:30	0	0	0	2	2		16:30	0	0	3	7	10			
04:45	0	0	0	0	3	3	16:45	0	0	4	16	8	25	12	41
05:00	0	0	0	2	2		17:00	0	0	4	4	8			
05:15	0	0	3	0	3		17:15	0	0	6	4	10			
05:30	0	0	2	0	2		17:30	0	0	2	2	4			
05:45	0	0	1	6	1	3	17:45	0	0	7	19	11	21	18	40
06:00	0	0	0	1	1		18:00	0	0	4	3	7			
06:15	0	0	5	2	7		18:15	0	0	3	4	7			
06:30	0	0	3	1	4		18:30	0	0	1	3	4			
06:45	0	0	7	15	3	7	18:45	0	0	0	8	5	15	5	23
07:00	0	0	2	1	3		19:00	0	0	1	3	4			
07:15	0	0	6	3	9		19:15	0	0	2	0	2			
07:30	0	0	7	2	9		19:30	0	0	1	2	3			
07:45	0	0	9	24	6	12	19:45	0	0	1	5	1	6	2	11
08:00	0	0	6	2	8		20:00	0	0	0	0				
08:15	0	0	2	2	4		20:15	0	0	0	0				
08:30	0	0	3	2	5		20:30	0	0	1	2	3			
08:45	0	0	6	17	2	8	20:45	0	0	1	2	2	4	3	6
09:00	0	0	0	4	4		21:00	0	0	0	0				
09:15	0	0	2	6	8		21:15	0	0	1	0	1			
09:30	0	0	3	2	5		21:30	0	0	0	2	2			
09:45	0	0	3	8	5	17	21:45	0	0	0	1	0	2		3
10:00	0	0	5	1	6		22:00	0	0	0	0				
10:15	0	0	1	4	5		22:15	0	0	1	2	3			
10:30	0	0	5	1	6		22:30	0	0	1	1	2			
10:45	0	0	3	14	3	9	22:45	0	0	0	2	2	5	2	7
11:00	0	0	3	6	9		23:00	0	0	1	3	4			
11:15	0	0	1	2	3		23:15	0	0	0	0				
11:30	0	0	2	3	5		23:30	0	0	2	0	2			
11:45	0	0	5	11	2	13	23:45	0	0	0	3	0	3		6
TOTALS	96				73	169	TOTALS	117				153	270		
SPLIT %	56.8%				43.2%	38.5%	SPLIT %	43.3%				56.7%	61.5%		

DAILY TOTALS				NB	SB	EB				WB		Total	
				0	0							439	
AM Peak Hour				07:15	09:00	07:15	PM Peak Hour				15:15	16:15	15:15
AM Pk Volume				28	17	41	PM Pk Volume				24	26	43
Pk Hr Factor				0.778	0.708	0.683	Pk Hr Factor				0.750	0.813	0.977
7 - 9 Volume		0	0	41	20	61	4 - 6 Volume		0	0	35	46	81
7 - 9 Peak Hour				07:15	07:15	07:15	4 - 6 Peak Hour				17:00	16:15	16:00
7 - 9 Pk Volume		0	0	28	13	41	4 - 6 Pk Volume		0	0	19	26	41
Pk Hr Factor		0.000	0.000	0.778	0.542	0.683	Pk Hr Factor		0.000	0.000	0.679	0.813	0.854

VOLUME

Sargeant Rd 700' N/O Gymkhana Rd

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_009

DAILY TOTALS					NB	SB						EB	WB						Total
					369	395						0	0						764
AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL			
00:00	0		0		0	0			12:00	6		3		0	0			9	
00:15	0		0		0	0			12:15	6		2		0	0			8	
00:30	0		0		0	0			12:30	3		4		0	0			7	
00:45	2	2	0		0	0	2	2	12:45	4	19	8	17	0	0			12	36
01:00	0		0		0	0			13:00	6		8		0	0			14	
01:15	0		1		0	0	1		13:15	5		8		0	0			13	
01:30	0		0		0	0			13:30	6		13		0	0			19	
01:45	0		0	1	0	0		1	13:45	16	33	15	44	0	0			31	77
02:00	0		1		0	0	1		14:00	14		7		0	0			21	
02:15	0		0		0	0			14:15	6		9		0	0			15	
02:30	0		0		0	0			14:30	13		6		0	0			19	
02:45	0		0	1	0	0		1	14:45	4	37	6	28	0	0			10	65
03:00	0		0		0	0			15:00	6		9		0	0			15	
03:15	2		0		0	0	2		15:15	14		6		0	0			20	
03:30	0		0		0	0			15:30	7		15		0	0			22	
03:45	0	2	1	1	0	0	1	3	15:45	13	40	13	43	0	0			26	83
04:00	0		1		0	0	1		16:00	12		8		0	0			20	
04:15	0		0		0	0			16:15	9		6		0	0			15	
04:30	0		0		0	0			16:30	9		14		0	0			23	
04:45	1	1	0	1	0	0	1	2	16:45	3	33	7	35	0	0			10	68
05:00	0		0		0	0			17:00	5		13		0	0			18	
05:15	1		0		0	0	1		17:15	9		6		0	0			15	
05:30	4		0		0	0	4		17:30	7		5		0	0			12	
05:45	1	6	1	1	0	0	2	7	17:45	4	25	11	35	0	0			15	60
06:00	1		2		0	0	3		18:00	3		5		0	0			8	
06:15	2		3		0	0	5		18:15	4		3		0	0			7	
06:30	4		2		0	0	6		18:30	5		4		0	0			9	
06:45	4	11	3	10	0	0	7	21	18:45	6	18	6	18	0	0			12	36
07:00	6		5		0	0	11		19:00	7		3		0	0			10	
07:15	7		9		0	0	16		19:15	5		2		0	0			7	
07:30	8		15		0	0	23		19:30	2		5		0	0			7	
07:45	12	33	10	39	0	0	22	72	19:45	0	14	5	15	0	0			5	29
08:00	11		2		0	0	13		20:00	1		4		0	0			5	
08:15	6		6		0	0	12		20:15	2		4		0	0			6	
08:30	9		3		0	0	12		20:30	1		2		0	0			3	
08:45	4	30	8	19	0	0	12	49	20:45	4	8	1	11	0	0			5	19
09:00	5		5		0	0	10		21:00	1		8		0	0			9	
09:15	6		3		0	0	9		21:15	0		3		0	0			3	
09:30	7		5		0	0	12		21:30	0		1		0	0			1	
09:45	4	22	8	21	0	0	12	43	21:45	0	1	1	13	0	0			1	14
10:00	0		6		0	0	6		22:00	1		0		0	0			1	
10:15	5		5		0	0	10		22:15	2		1		0	0			3	
10:30	4		4		0	0	8		22:30	0		0		0	0				
10:45	1	10	4	19	0	0	5	29	22:45	0	3	0	1	0	0				4
11:00	8		4		0	0	12		23:00	1		0		0	0			1	
11:15	3		6		0	0	9		23:15	1		1		0	0			2	
11:30	3		5		0	0	8		23:30	0		0		0	0				
11:45	5	19	6	21	0	0	11	40	23:45	0	2	0	1	0	0				3
TOTALS	136		134				270		TOTALS	233		261				494			
SPLIT %	50.4%		49.6%				35.3%		SPLIT %	47.2%		52.8%				64.7%			

DAILY TOTALS					NB	SB						EB	WB						Total
					369	395						0	0						764
AM Peak Hour	07:15	07:00			07:15		PM Peak Hour	13:45	13:00			15:15							
AM Pk Volume	38	39			74		PM Pk Volume	49	44			88							
Pk Hr Factor	0.792	0.650			0.804		Pk Hr Factor	0.766	0.733			0.846							
7 - 9 Volume	63	58	0	0	121		4 - 6 Volume	58	70	0	0	128							
7 - 9 Peak Hour	07:15	07:00			07:15		4 - 6 Peak Hour	16:00	16:15			16:00							
7 - 9 Pk Volume	38	39	0	0	74		4 - 6 Pk Volume	33	40	0	0	68							
Pk Hr Factor	0.792	0.650	0.000	0.000	0.804		Pk Hr Factor	0.688	0.714	0.000	0.000	0.739							

VOLUME
Arena Way 800' N/O Open View Rd

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_001

DAILY TOTALS						NB	SB	EB						WB	Total	
						1,166	1,164							0		
AM Period	NB		SB		EB	WB	TOTAL	PM Period	NB		SB		EB	WB	TOTAL	
00:00	1		4		0	0	5	12:00	21		12		0	0	33	
00:15	1		3		0	0	4	12:15	18		22		0	0	40	
00:30	0		1		0	0	1	12:30	16		18		0	0	34	
00:45	1	3	0	8	0	0	1 11	12:45	27	82	24	76	0	0	51 158	
01:00	1		0		0	0	1	13:00	22		33		0	0	55	
01:15	0		0		0	0		13:15	22		28		0	0	50	
01:30	0		1		0	0	1	13:30	17		32		0	0	49	
01:45	0	1	0	1	0	0	2	13:45	29	90	38	131	0	0	67 221	
02:00	0		0		0	0		14:00	44		14		0	0	58	
02:15	0		1		0	0	1	14:15	23		15		0	0	38	
02:30	1		0		0	0	1	14:30	26		15		0	0	41	
02:45	2	3	1	2	0	0	3 5	14:45	15	108	13	57	0	0	28 165	
03:00	0		1		0	0	1	15:00	25		17		0	0	42	
03:15	0		0		0	0		15:15	22		30		0	0	52	
03:30	2		2		0	0	4	15:30	20		30		0	0	50	
03:45	1	3	0	3	0	0	1 6	15:45	16	83	19	96	0	0	35 179	
04:00	0		1		0	0	1	16:00	16		31		0	0	47	
04:15	2		1		0	0	3	16:15	19		23		0	0	42	
04:30	1		0		0	0	1	16:30	26		23		0	0	49	
04:45	4	7	1	3	0	0	5 10	16:45	17	78	17	94	0	0	34 172	
05:00	3		3		0	0	6	17:00	22		24		0	0	46	
05:15	5		1		0	0	6	17:15	21		21		0	0	42	
05:30	4		2		0	0	6	17:30	19		23		0	0	42	
05:45	6	18	2	8	0	0	8 26	17:45	20	82	22	90	0	0	42 172	
06:00	15		1		0	0	16	18:00	20		19		0	0	39	
06:15	6		4		0	0	10	18:15	12		25		0	0	37	
06:30	7		5		0	0	12	18:30	10		15		0	0	25	
06:45	5	33	11	21	0	0	16 54	18:45	12	54	14	73	0	0	26 127	
07:00	14		9		0	0	23	19:00	9		16		0	0	25	
07:15	23		29		0	0	52	19:15	9		15		0	0	24	
07:30	38		64		0	0	102	19:30	8		14		0	0	22	
07:45	75	150	18	120	0	0	93 270	19:45	6	32	12	57	0	0	18 89	
08:00	32		22		0	0	54	20:00	6		10		0	0	16	
08:15	15		20		0	0	35	20:15	7		9		0	0	16	
08:30	16		13		0	0	29	20:30	8		10		0	0	18	
08:45	18	81	16	71	0	0	34 152	20:45	4	25	13	42	0	0	17 67	
09:00	10		11		0	0	21	21:00	8		8		0	0	16	
09:15	12		9		0	0	21	21:15	5		10		0	0	15	
09:30	22		12		0	0	34	21:30	3		8		0	0	11	
09:45	15	59	19	51	0	0	34 110	21:45	2	18	3	29	0	0	5 47	
10:00	12		14		0	0	26	22:00	1		3		0	0	4	
10:15	15		13		0	0	28	22:15	2		3		0	0	5	
10:30	20		12		0	0	32	22:30	2		3		0	0	5	
10:45	19	66	17	56	0	0	36 122	22:45	2	7	0	9	0	0	2 16	
11:00	25		10		0	0	35	23:00	0		3		0	0	3	
11:15	17		10		0	0	27	23:15	0		2		0	0	2	
11:30	18		15		0	0	33	23:30	2		2		0	0	4	
11:45	20	80	21	56	0	0	41 136	23:45	1	3	3	10	0	0	4 13	
TOTALS	504		400				904	TOTALS	662		764				1426	
SPLIT %	55.8%		44.2%				38.8%	SPLIT %	46.4%		53.6%				61.2%	

DAILY TOTALS						NB	SB							EB	WB							Total
						1,166	1,164							0	0							2,330
AM Peak Hour		07:15	07:15			07:15	PM Peak Hour		13:45	13:00			13:15									
AM Pk Volume		168	133			301	PM Pk Volume		122	131			224									
Pk Hr Factor		0.560	0.520			0.738	Pk Hr Factor		0.693	0.862			0.836									
7 - 9 Volume		231	191	0	0	422	4 - 6 Volume		160	184	0	0	344									
7 - 9 Peak Hour		07:15	07:15			07:15	4 - 6 Peak Hour		16:30	16:00			16:00									
7 - 9 Pk Volume		168	133	0	0	301	4 - 6 Pk Volume		86	94	0	0	172									
Pk Hr Factor		0.560	0.520	0.000	0.000	0.738	Pk Hr Factor		0.827	0.758	0.000	0.000	0.878									

Open View Rd 200' S/O Encina Corte

City: Ramona
Project #: CA21_040209_006

DAILY TOTALS			NB	SB	EB				WB	Total
			184	204	0				0	388
AM Peak Hour	07:00	07:15		07:30	PM Peak Hour	14:45	13:15		13:15	
AM Pk Volume	23	15		37	PM Pk Volume	14	24		37	
Pk Hr Factor	0.575	0.536		0.544	Pk Hr Factor	0.875	0.600		0.771	
7 - 9 Volume	37	27	0	0	64	4 - 6 Volume	18	34	00	52
7 - 9 Peak Hour	07:00	07:15		07:30	4 - 6 Peak Hour	16:00	17:00		17:00	
7 - 9 Pk Volume	23	15	0	0	37	4 - 6 Pk Volume	10	21	00	29
Pk Hr Factor	0.575	0.536	0.000	0.000	0.544	Pk Hr Factor	0.625	0.583	0.0000.000	0.659

VOLUME

Arena Way 700' W/O Arena Dr

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_017

DAILY TOTALS					NB	SB	EB					WB	Total		
					0	0	1,315					993	2,308		
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
00:00	0	0	0	0			12:00	0	0	4	18	22			
00:15	0	0	0	1	1		12:15	0	0	15	16	31			
00:30	0	0	0	1	1		12:30	0	0	9	12	21			
00:45	0	0	0	0	2	2	12:45	0	0	15	43	7	53	22	96
01:00	0	0	1	0	1		13:00	0	0	14	8	22			
01:15	0	0	0	0			13:15	0	0	26	8	34			
01:30	0	0	0	0			13:30	0	0	31	10	41			
01:45	0	0	1	2	0	1	13:45	0	0	32	103	46	72	78	175
02:00	0	0	0	0			14:00	0	0	20	42	62			
02:15	0	0	0	0			14:15	0	0	10	16	26			
02:30	0	0	1	1	2		14:30	0	0	9	12	21			
02:45	0	0	0	1	0	1	14:45	0	0	16	55	16	86	32	141
03:00	0	0	0	0			15:00	0	0	15	21	36			
03:15	0	0	0	0			15:15	0	0	13	11	24			
03:30	0	0	2	1	3		15:30	0	0	20	16	36			
03:45	0	0	0	2	0	1	15:45	0	0	29	77	51	99	80	176
04:00	0	0	2	0	2		16:00	0	0	76	24	100			
04:15	0	0	1	2	3		16:15	0	0	103	24	127			
04:30	0	0	4	1	5		16:30	0	0	80	36	116			
04:45	0	0	4	11	2	5	16:45	0	0	67	326	41	125	108	451
05:00	0	0	8	3	11		17:00	0	0	83	18	101			
05:15	0	0	3	1	4		17:15	0	0	48	7	55			
05:30	0	0	4	3	7		17:30	0	0	20	19	39			
05:45	0	0	9	24	4	11	17:45	0	0	20	171	11	55	31	226
06:00	0	0	11	10	21		18:00	0	0	14	19	33			
06:15	0	0	12	6	18		18:15	0	0	11	17	28			
06:30	0	0	10	3	13		18:30	0	0	4	9	13			
06:45	0	0	16	49	10	29	18:45	0	0	15	44	7	52	22	96
07:00	0	0	27	15	42		19:00	0	0	8	10	18			
07:15	0	0	34	19	53		19:15	0	0	5	7	12			
07:30	0	0	77	55	132		19:30	0	0	13	8	21			
07:45	0	0	27	165	53	142	19:45	0	0	9	35	10	35	19	70
08:00	0	0	13	21	34		20:00	0	0	7	9	16			
08:15	0	0	17	15	32		20:15	0	0	6	5	11			
08:30	0	0	11	12	23		20:30	0	0	4	9	13			
08:45	0	0	7	48	11	59	20:45	0	0	9	26	8	31	17	57
09:00	0	0	9	11	20		21:00	0	0	6	3	9			
09:15	0	0	11	6	17		21:15	0	0	1	3	4			
09:30	0	0	12	12	24		21:30	0	0	0	1	1			
09:45	0	0	8	40	9	38	21:45	0	0	6	13	5	12	11	25
10:00	0	0	10	7	17		22:00	0	0	8	4	12			
10:15	0	0	4	7	11		22:15	0	0	2	1	3			
10:30	0	0	3	10	13		22:30	0	0	4	2	6			
10:45	0	0	7	24	9	33	22:45	0	0	0	14	3	10	3	24
11:00	0	0	10	5	15		23:00	0	0	1	1	2			
11:15	0	0	5	12	17		23:15	0	0	0	2	2			
11:30	0	0	8	7	15		23:30	0	0	2	2	4			
11:45	0	0	15	38	8	32	23:45	0	0	1	4	5	10	6	14
TOTALS	404				353	757	TOTALS	911				640	1551		
SPLIT %	53.4%				46.6%	32.8%	SPLIT %	58.7%				41.3%	67.2%		

DAILY TOTALS			NB	SB	EB			WB			Total
			0	0							1,315
AM Peak Hour			07:00	07:15	07:00	PM Peak Hour			16:15	15:45	16:15
AM Pk Volume			165	148	307	PM Pk Volume			333	135	452
Pk Hr Factor			0.536	0.673	0.581	Pk Hr Factor			0.808	0.662	0.890
7 - 9 Volume	0	0	213	201	414	4 - 6 Volume	0	0	497	180	677
7 - 9 Peak Hour			07:00	07:15	07:00	4 - 6 Peak Hour			16:15	16:00	16:15
7 - 9 Pk Volume			0	0	165	148	307	4 - 6 Pk Volume	0	0	333
Pk Hr Factor			0.000	0.000	0.536	0.673	0.581	Pk Hr Factor	0.000	0.000	0.808
									0.808	0.762	0.890

VOLUME
Gunn Stage Rd 1500' S/O Wikiup Rd

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_004

DAILY TOTALS						NB	SB							EB	WB							Total
						1,671	1,732							0	0							3,403
AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL						TOTAL
00:00	1		1		0	0	2		12:00	24		28		0	0	52						52
00:15	2		2		0	0	4		12:15	30		38		0	0	68						68
00:30	4		3		0	0	7		12:30	23		25		0	0	48						48
00:45	3	10	1	7	0	0	4	17	12:45	29	106	30	121	0	0	59	227					227
01:00	3		0		0	0	3		13:00	35		32		0	0	67						67
01:15	0		0		0	0			13:15	33		28		0	0	61						61
01:30	1		2		0	0	3		13:30	20		27		0	0	47						47
01:45	0	4	1	3	0	0	1	7	13:45	27	115	29	116	0	0	56	231					231
02:00	3		1		0	0	4		14:00	45		39		0	0	84						84
02:15	0		3		0	0	3		14:15	33		24		0	0	57						57
02:30	1		3		0	0	4		14:30	35		25		0	0	60						60
02:45	0	4	1	8	0	0	1	12	14:45	44	157	23	111	0	0	67	268					268
03:00	0		4		0	0	4		15:00	37		23		0	0	60						60
03:15	0		0		0	0			15:15	45		30		0	0	75						75
03:30	0		4		0	0	4		15:30	38		41		0	0	79						79
03:45	1	1	2	10	0	0	3	11	15:45	43	163	22	116	0	0	65	279					279
04:00	1		7		0	0	8		16:00	43		29		0	0	72						72
04:15	1		6		0	0	7		16:15	32		31		0	0	63						63
04:30	0		4		0	0	4		16:30	51		30		0	0	81						81
04:45	0	2	13	30	0	0	13	32	16:45	49	175	35	125	0	0	84	300					300
05:00	1		13		0	0	14		17:00	36		28		0	0	64						64
05:15	0		14		0	0	14		17:15	42		33		0	0	75						75
05:30	7		14		0	0	21		17:30	41		29		0	0	70						70
05:45	8	16	22	63	0	0	30	79	17:45	46	165	25	115	0	0	71	280					280
06:00	4		21		0	0	25		18:00	34		33		0	0	67						67
06:15	5		37		0	0	42		18:15	32		24		0	0	56						56
06:30	9		28		0	0	37		18:30	28		23		0	0	51						51
06:45	9	27	28	114	0	0	37	141	18:45	22	116	7	87	0	0	29	203					203
07:00	10		31		0	0	41		19:00	23		10		0	0	33						33
07:15	11		48		0	0	59		19:15	24		15		0	0	39						39
07:30	32		57		0	0	89		19:30	14		7		0	0	21						21
07:45	15	68	51	187	0	0	66	255	19:45	19	80	9	41	0	0	28	121					121
08:00	22		40		0	0	62		20:00	19		10		0	0	29						29
08:15	16		26		0	0	42		20:15	19		12		0	0	31						31
08:30	17		23		0	0	40		20:30	19		10		0	0	29						29
08:45	26	81	29	118	0	0	55	199	20:45	19	76	11	43	0	0	30	119					119
09:00	16		23		0	0	39		21:00	10		14		0	0	24						24
09:15	18		23		0	0	41		21:15	11		6		0	0	17						17
09:30	18		30		0	0	48		21:30	8		4		0	0	12						12
09:45	18	70	24	100	0	0	42	170	21:45	13	42	5	29	0	0	18	71					71
10:00	18		28		0	0	46		22:00	4		4		0	0	8						8
10:15	23		28		0	0	51		22:15	4		3		0	0	7						7
10:30	14		15		0	0	29		22:30	7		0		0	0	7						7
10:45	19	74	22	93	0	0	41	167	22:45	4	19	1	8	0	0	5	27					27
11:00	20		18		0	0	38		23:00	3		2		0	0	5						5
11:15	21		30		0	0	51		23:15	7		2		0	0	9						9
11:30	21		16		0	0	37		23:30	4		1		0	0	5						5
11:45	19	81	16	80	0	0	35	161	23:45	5	19	2	7	0	0	7	26					26
TOTALS	438		813				1251		TOTALS	1233		919				2152						2152
SPLIT %	35.0%		65.0%				36.8%		SPLIT %	57.3%		42.7%				63.2%						63.2%

DAILY TOTALS						NB	SB							EB	WB							Total
						1,671	1,732							0	0							3,403
AM Peak Hour	11:45		07:15				07:15		PM Peak Hour	16:30		16:30				16:30						16:30
AM Pk Volume	96		196				276		PM Pk Volume	178		126				304						304
Pk Hr Factor	0.800		0.860				0.775		Pk Hr Factor	0.873		0.900				0.905						0.905
7 - 9 Volume	149		305		0	0	454		4 - 6 Volume	340		240		0	0	580						580
7 - 9 Peak Hour	07:30		07:15				07:15		4 - 6 Peak Hour	16:30		16:30				16:30						16:30
7 - 9 Pk Volume	85		196		0	0	276		4 - 6 Pk Volume	178		126		0	0	304						304
Pk Hr Factor	0.664		0.860		0.000	0.000	0.775		Pk Hr Factor	0.873		0.900		0.000	0.000	0.905						0.905

VOLUME
Arena Dr 150' S/O Arena Pl

Day: Thursday
Date: 12/9/2021

City: Ramona
Project #: CA21_040209_013

DAILY TOTALS						NB	SB	EB						WB	Total	
						881	960							0	0	1,841
AM Period	NB		SB		EB	WB	TOTAL	PM Period	NB		SB		EB	WB	TOTAL	
00:00	2		0		0	0	2	12:00	12		16		0	0	28	
00:15	2		0		0	0	2	12:15	13		12		0	0	25	
00:30	0		0		0	0		12:30	15		12		0	0	27	
00:45	0	4	0		0	0	4	12:45	10	50	6	46	0	0	16 96	
01:00	1		0		0	0	1	13:00	9		10		0	0	19	
01:15	0		2		0	0	2	13:15	19		12		0	0	31	
01:30	0		1		0	0	1	13:30	35		11		0	0	46	
01:45	0	1	0	3	0	0	4	13:45	30	93	36	69	0	0	66 162	
02:00	0		2		0	0	2	14:00	13		47		0	0	60	
02:15	0		2		0	0	2	14:15	16		12		0	0	28	
02:30	0		1		0	0	1	14:30	12		16		0	0	28	
02:45	1	1	0	5	0	0	6	14:45	20	61	18	93	0	0	38 154	
03:00	0		2		0	0	2	15:00	11		25		0	0	36	
03:15	0		0		0	0		15:15	20		7		0	0	27	
03:30	0		0		0	0		15:30	20		14		0	0	34	
03:45	0		2	4	0	0	6	15:45	37	88	15	61	0	0	52 149	
04:00	0		4		0	0	4	16:00	6		21		0	0	27	
04:15	1		4		0	0	5	16:15	25		29		0	0	54	
04:30	0		6		0	0	6	16:30	15		25		0	0	40	
04:45	0	1	6	20	0	0	27	16:45	24	70	15	90	0	0	39 160	
05:00	0		10		0	0	10	17:00	24		28		0	0	52	
05:15	1		5		0	0	6	17:15	17		16		0	0	33	
05:30	1		13		0	0	14	17:30	18		11		0	0	29	
05:45	3	5	14	42	0	0	64	17:45	25	84	11	66	0	0	36 150	
06:00	5		13		0	0	18	18:00	23		11		0	0	34	
06:15	3		15		0	0	18	18:15	14		6		0	0	20	
06:30	4		16		0	0	20	18:30	12		4		0	0	16	
06:45	6	18	10	54	0	0	88	18:45	10	59	8	29	0	0	18 88	
07:00	7		16		0	0	23	19:00	16		6		0	0	22	
07:15	20		20		0	0	40	19:15	9		5		0	0	14	
07:30	53		51		0	0	104	19:30	10		8		0	0	18	
07:45	15	95	48	135	0	0	293	19:45	10	45	4	23	0	0	14 68	
08:00	8		27		0	0	35	20:00	7		2		0	0	9	
08:15	11		17		0	0	28	20:15	5		7		0	0	12	
08:30	7		9		0	0	16	20:30	4		5		0	0	9	
08:45	10	36	16	69	0	0	131	20:45	10	26	4	18	0	0	14 44	
09:00	10		12		0	0	22	21:00	6		2		0	0	8	
09:15	3		9		0	0	12	21:15	2		3		0	0	5	
09:30	4		4		0	0	8	21:30	5		2		0	0	7	
09:45	7	24	4	29	0	0	64	21:45	5	18	1	8	0	0	6 26	
10:00	4		9		0	0	13	22:00	7		1		0	0	8	
10:15	7		10		0	0	17	22:15	10		3		0	0	13	
10:30	10		6		0	0	16	22:30	1		1		0	0	2	
10:45	9	30	10	35	0	0	84	22:45	5	23	1	6	0	0	6 29	
11:00	10		18		0	0	28	23:00	4		1		0	0	5	
11:15	10		14		0	0	24	23:15	0		0		0	0		
11:30	7		8		0	0	15	23:30	2		3		0	0	5	
11:45	13	40	11	51	0	0	115	23:45	3	9	0	4	0	0	3 13	
TOTALS	255		447				702	TOTALS	626		513				1139	
SPLIT %	36.3%		63.7%				38.1%	SPLIT %	55.0%		45.0%				61.9%	

DAILY TOTALS					NB	SB	EBWB					Total
					881	960						0
AM Peak Hour	07:15	07:15		07:15	PM Peak Hour	13:15	13:45		13:15			
AM Pk Volume	96	146		242	PM Pk Volume	97	111		203			
Pk Hr Factor	0.453	0.716		0.582	Pk Hr Factor	0.693	0.590		0.769			
7 - 9 Volume	131	204	0	0	335	4 - 6 Volume	154	156	0	0	310	
7 - 9 Peak Hour	07:15	07:15		07:15	4 - 6 Peak Hour	16:15	16:15		16:15			
7 - 9 Pk Volume	96	146	0	0	242	4 - 6 Pk Volume	88	97	0	0	185	
Pk Hr Factor	0.453	0.716	0.000	0.000	0.582	Pk Hr Factor	0.880	0.836	0.000	0.000	0.856	

West Lilac Road

Camino del Rey to Old Highway 395 (4.43 miles)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: January 27, 2022

Item 5-A

SUPERVISORIAL DISTRICT: 5

SUBJECT: Radar Certification

LOCATION: West Lilac Road from Camino del Rey to Old Highway 395 (a distance of 4.43 miles) BONSALL (Thos. Bros. 1068-A1)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

West Lilac Road from Camino del Rey to Old Highway 395 is currently posted with a 45 MPH speed limit. A preliminary review of prevailing speeds and roadway conditions could support radar certification of the 45 MPH speed limit.

Existing Traffic Devices

This segment of West Lilac Road is a striped 2-lane undivided highway with a pavement width varying from 26 to 40 feet. The roadway is striped with a no passing centerline and lane lines. There is an 800' section of roadway in front of the Sullivan Middle School/Bonsall High School grounds striped with a two-way left turn lane. West Lilac Road is also striped with a turn pocket and acceleration lane on opposite sides of the intersection with Via Ararat Drive. The road is posted with several curve/turn advisories with accompanying speed advisory plaques and bus stop advisories. West Lilac Road is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted with a 45 MPH, radar enforced, speed limit.

Average Daily Traffic Volumes

	<u>11/22</u>	<u>10/14</u>
West Lilac Road:		
200' N/o Camino del Rey	2,522	2,327
1,600' W/o Via Ararat Drive	2,164	2,338

<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
West Lilac Road:				
@ Redondo Drive	(2023)	49.5 MPH	41-50	62.0%
200' W/o Camino del Cielo	(2015)	46.7 MPH	37-46	69.0%
1,400' W/o Bobrit Lane	(2022)	46.1 MPH	35-44	69.0%
1,500' W/o Via Ararat Drive	(2022)	49.3 MPH	37-46	60.0%
300' W/o Via Ararat Drive	(2015)	47.9 MPH	39-48	64.0%

500' E/o Dos Niñas	(2022)	53.1 MPH	45-54	44.0%
Speed Zone	(2023)	49.5 MPH	40-49	58.8%

Collision Data

There have been 24 reported collisions, 15 of which involved an injury, along this segment of roadway in a 3-year period (2019-10-01 to 2022-09-30). These collisions result in a segment accident rate of 2.12 collisions per million vehicle miles. The statewide average is 0.91 collisions per million vehicle miles for similar rural, 2 lane, roads with speeds less than 55 MPH.



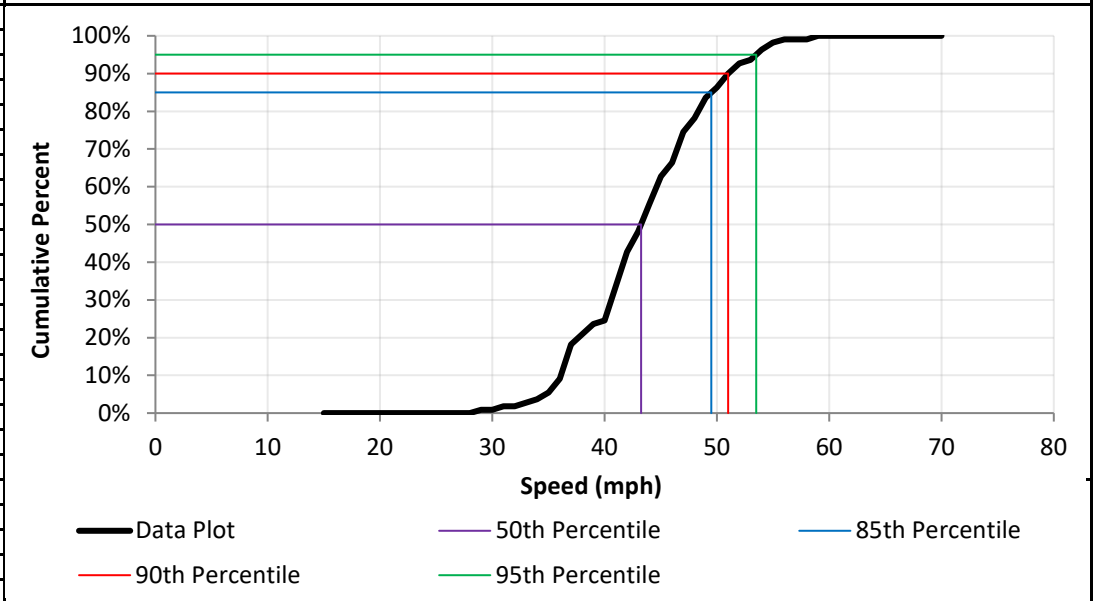
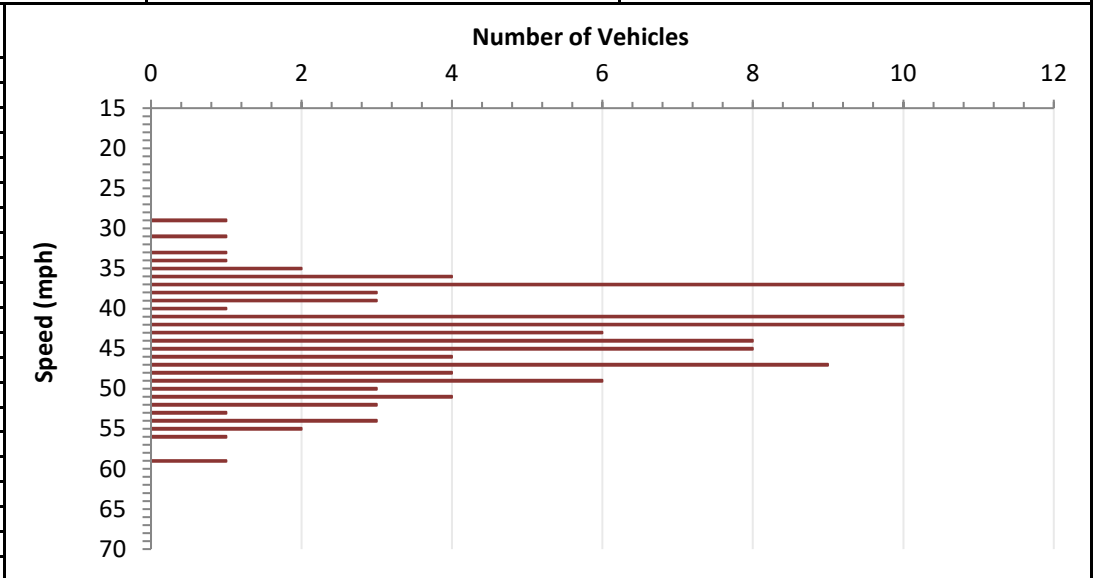
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	West Lilac Rd	From:	Camino del Rey	To:	Old Highway 395
Position:	@ Redondo Dr	Direction:	EB/WB		

Date:	1/12/2023	Weather:	Clear	Project Number:	TAC
Time Start:	10:20 AM	Road Condition:	Dry	Observer:	County
Time End:	11:50 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	1	0.9%
30		
31	1	1.8%
32		
33	1	2.7%
34	1	3.6%
35	2	5.5%
36	4	9.1%
37	10	18.2%
38	3	20.9%
39	3	23.6%
40	1	24.5%
41	10	33.6%
42	10	42.7%
43	6	48.2%
44	8	55.5%
45	8	62.7%
46	4	66.4%
47	9	74.5%
48	4	78.2%
49	6	83.6%
50	3	86.4%
51	4	90.0%
52	3	92.7%
53	1	93.6%
54	3	96.4%
55	2	98.2%
56	1	99.1%
57		
58		
59	1	100.0%
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	110	



DATA ANALYSIS

Average Speed	43.9	Range	29 - 59
50th Percentile	43.3	10 mph Pace	41 - 50
85th Percentile	49.5	Number in Pace	68
90th Percentile	51.0	Percent in Pace	62%
95th Percentile	53.5		



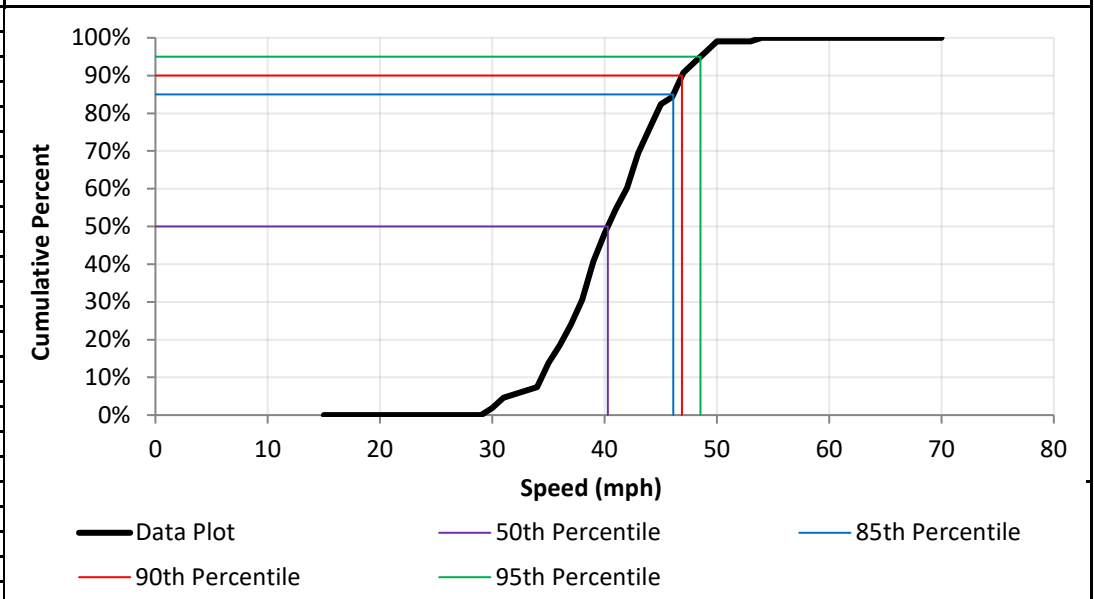
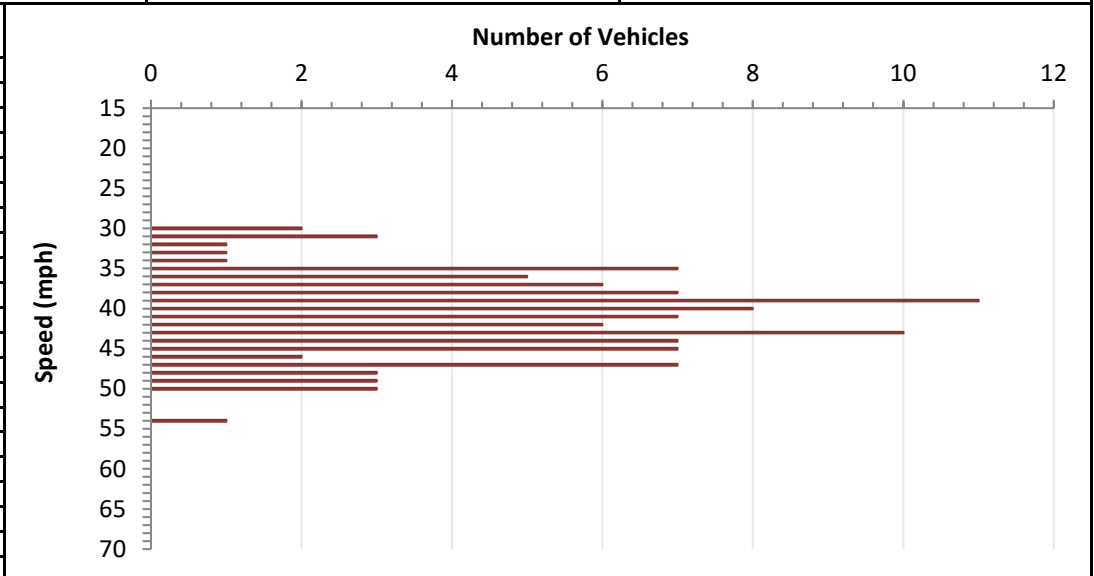
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	West Lilac Rd	From:	Camino del Rey	To:	Old Highway 395
Position:	1,400' E/o Bobrit Ln	Direction:	EB/WB		

Date:	12/22/2022	Weather:	Sunny	Project Number:	TAC
Time Start:	10:30 AM	Road Condition:	Dry	Observer:	County
Time End:	12:30 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	2	1.9%
31	3	4.6%
32	1	5.6%
33	1	6.5%
34	1	7.4%
35	7	13.9%
36	5	18.5%
37	6	24.1%
38	7	30.6%
39	11	40.7%
40	8	48.1%
41	7	54.6%
42	6	60.2%
43	10	69.4%
44	7	75.9%
45	7	82.4%
46	2	84.3%
47	7	90.7%
48	3	93.5%
49	3	96.3%
50	3	99.1%
51		
52		
53		
54	1	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	108	



DATA ANALYSIS

Average Speed	40.9	Range	30 - 54
50th Percentile	40.3	10 mph Pace	35 - 44
85th Percentile	46.1	Number in Pace	74
90th Percentile	46.9	Percent in Pace	69%
95th Percentile	48.5		



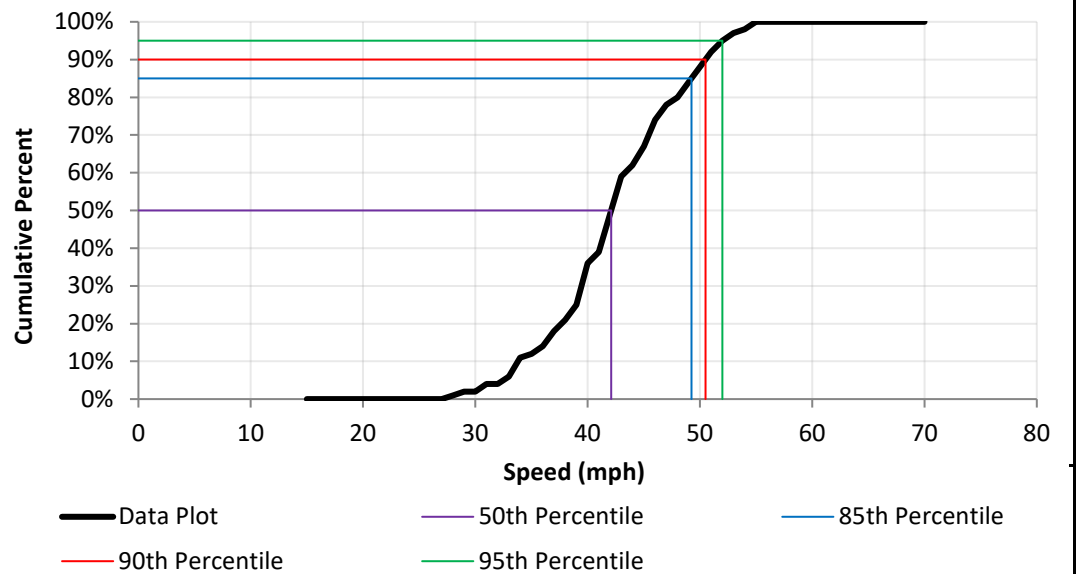
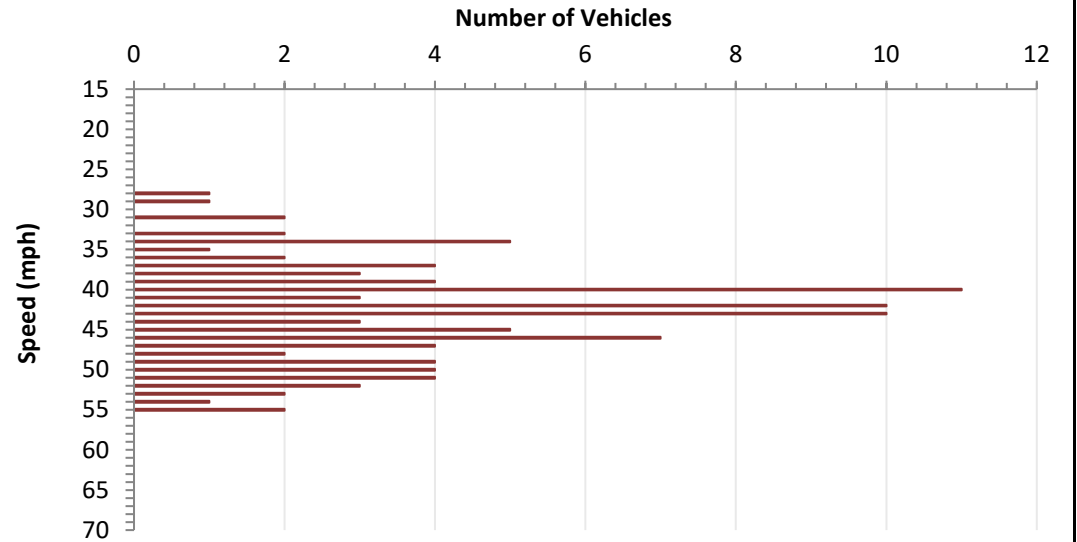
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	West Lilac Rd	From:	Camino del Rey	To:	Old Highway 395
Position:	1,500' W/o Via Ararat Dr	Direction:	EB/WB		

Date:	11/30/2022	Weather:	Cloudy	Project Number:	TAC
Time Start:	11:30 AM	Road Condition:	Dry	Observer:	County
Time End:	1:30 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	1	1.0%
29	1	2.0%
30		
31	2	4.0%
32		
33	2	6.0%
34	5	11.0%
35	1	12.0%
36	2	14.0%
37	4	18.0%
38	3	21.0%
39	4	25.0%
40	11	36.0%
41	3	39.0%
42	10	49.0%
43	10	59.0%
44	3	62.0%
45	5	67.0%
46	7	74.0%
47	4	78.0%
48	2	80.0%
49	4	84.0%
50	4	88.0%
51	4	92.0%
52	3	95.0%
53	2	97.0%
54	1	98.0%
55	2	100.0%
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	100	



DATA ANALYSIS

Average Speed	42.8	Range	28 - 55
50th Percentile	42.1	10 mph Pace	37 - 46
85th Percentile	49.3	Number in Pace	60
90th Percentile	50.5	Percent in Pace	60%
95th Percentile	52.0		



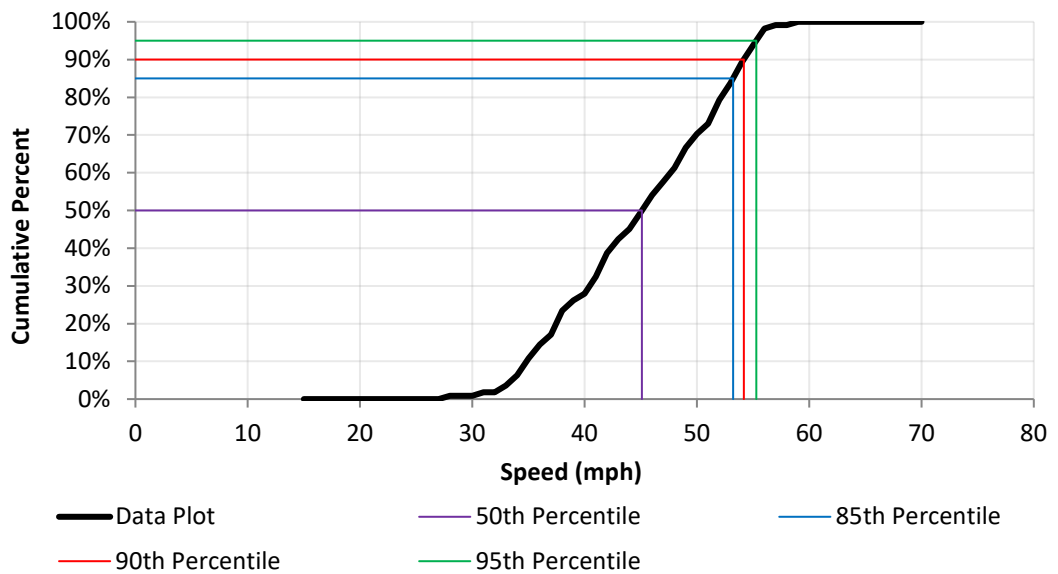
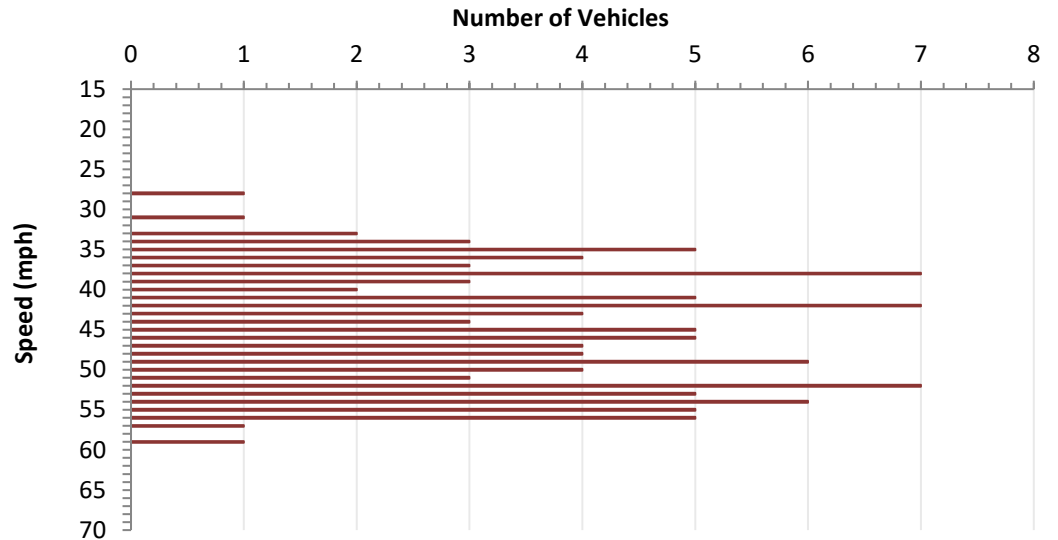
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	West Lilac Rd	From:	Camino del Rey	To:	Old Highway 395
Position:	500' E/o Dos Ninas	Direction:	EB/WB		

Date:	12/27/2022	Weather:	Cloudy	Project Number:	TAC
Time Start:	10:30 AM	Road Condition:	Dry	Observer:	County
Time End:	12:30 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	1	0.9%
29		
30		
31	1	1.8%
32		
33	2	3.6%
34	3	6.3%
35	5	10.8%
36	4	14.4%
37	3	17.1%
38	7	23.4%
39	3	26.1%
40	2	27.9%
41	5	32.4%
42	7	38.7%
43	4	42.3%
44	3	45.0%
45	5	49.5%
46	5	54.1%
47	4	57.7%
48	4	61.3%
49	6	66.7%
50	4	70.3%
51	3	73.0%
52	7	79.3%
53	5	83.8%
54	6	89.2%
55	5	93.7%
56	5	98.2%
57	1	99.1%
58		
59	1	100.0%
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	111	



DATA ANALYSIS

Average Speed	45.3	Range	28 - 59
50th Percentile	45.1	10 mph Pace	45 - 54
85th Percentile	53.2	Number in Pace	49
90th Percentile	54.2	Percent in Pace	44%
95th Percentile	55.3		

VOLUME

W Lilac Rd 200' N/O Camino Del Rey

Day: Tuesday
Date: 11/15/2022City: Bonsall
Project #: CA22_040205_005

DAILY TOTALS					NB	SB						EB	WB	Total
					1,268	1,254						0	0	2,522
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL			
00:00	1	1			2	12:00	19	15			34			
00:15	3	2			5	12:15	16	10			26			
00:30	2	1			3	12:30	17	9			26			
00:45	1	7	0	4	11	12:45	16	68	10	44	112			
01:00	1	0			1	13:00	20	8			28			
01:15	0	0			0	13:15	20	8			28			
01:30	0	1			1	13:30	14	13			27			
01:45	1	2	0	1	3	13:45	16	70	10	39	109			
02:00	1	0			1	14:00	24	17			41			
02:15	1	1			2	14:15	29	13			42			
02:30	1	0			1	14:30	31	21			52			
02:45	0	3	1	2	5	14:45	78	162	75	126	288			
03:00	0	0			0	15:00	50	57			107			
03:15	1	0			1	15:15	33	27			60			
03:30	0	1			1	15:30	40	25			65			
03:45	0	1	0	1	2	15:45	35	158	64	173	331			
04:00	0	1			1	16:00	17	31			48			
04:15	0	0			0	16:15	19	24			43			
04:30	1	2			3	16:30	15	25			40			
04:45	0	1	1	4	5	16:45	21	72	25	105	177			
05:00	1	1			2	17:00	20	24			44			
05:15	4	3			7	17:15	17	15			32			
05:30	2	2			4	17:30	15	15			30			
05:45	5	12	6	12	24	17:45	18	70	17	71	141			
06:00	10	9			19	18:00	15	9			24			
06:15	9	9			18	18:15	23	11			34			
06:30	15	10			25	18:30	13	13			26			
06:45	14	48	11	39	87	18:45	13	64	11	44	108			
07:00	21	17			38	19:00	6	8			14			
07:15	27	29			56	19:15	9	7			16			
07:30	62	70			132	19:30	8	4			12			
07:45	59	169	109	225	394	19:45	7	30	5	24	54			
08:00	37	65			102	20:00	6	5			11			
08:15	43	19			62	20:15	3	3			6			
08:30	27	27			54	20:30	8	3			11			
08:45	14	121	31	142	263	20:45	7	24	5	16	40			
09:00	11	12			23	21:00	5	1			6			
09:15	12	8			20	21:15	5	2			7			
09:30	7	14			21	21:30	5	1			6			
09:45	5	35	16	50	85	21:45	6	21	2	6	27			
10:00	8	12			20	22:00	3	1			4			
10:15	17	15			32	22:15	2	1			3			
10:30	17	14			31	22:30	4	0			4			
10:45	9	51	14	55	106	22:45	5	14	3	5	19			
11:00	12	17			29	23:00	0	0			0			
11:15	13	14			27	23:15	1	0			1			
11:30	24	14			38	23:30	0	2			2			
11:45	12	61	18	63	124	23:45	3	4	1	3	7			
TOTALS	511	598			1109	TOTALS	757	656			1413			
SPLIT %	46.1%	53.9%			44.0%	SPLIT %	53.6%	46.4%			56.0%			

DAILY TOTALS				NB	SB	EB				WB	Total	
				1,268	1,254					0		
AM Peak Hour	07:30	07:15			07:30	PM Peak Hour	14:45	14:45			14:45	
AM Pk Volume	201	273			464	PM Pk Volume	201	184			385	
Pk Hr Factor	0.810	0.626			0.690	Pk Hr Factor	0.644	0.613			0.629	
7 - 9 Volume	290	367	0	0	657	4 - 6 Volume	142	176	0	0	318	
7 - 9 Peak Hour	07:30	07:15			07:30	4 - 6 Peak Hour	16:15	16:00			16:00	
7 - 9 Pk Volume	201	273	0	0	464	4 - 6 Pk Volume	75	105	0	0	177	
Pk Hr Factor	0.810	0.626	0.000	0.000	0.690	Pk Hr Factor	0.893	0.847	0.000	0.000	0.922	

VOLUME

W Lilac Rd 1600' W/O Via Ararat Dr

Day: Tuesday
Date: 11/15/2022City: Bonsall
Project #: CA22_040205_006

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,088	1,076						2,164
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			0	1	1		12:00			22	10	32							
00:15			0	1	1		12:15			17	7	24							
00:30			2	0	2		12:30			15	13	28							
00:45			1	3	2	4	12:45			10	64	10	40	20	104				
01:00			0	1	1		13:00			8	7	15							
01:15			0	0	0		13:15			21	12	33							
01:30			1	0	1		13:30			12	11	23							
01:45			1	2	0	1	13:45			10	51	19	49	29	100				
02:00			0	0	0		14:00			17	17	34							
02:15			0	1	1		14:15			14	24	38							
02:30			0	0	0		14:30			13	28	41							
02:45			0	1	1	2	14:45			91	135	52	121	143	256				
03:00			0	0	0		15:00			47	25	72							
03:15			0	0	0		15:15			22	27	49							
03:30			0	0	0		15:30			11	32	43							
03:45			0	0	0		15:45			76	156	42	126	118	282				
04:00			0	0	0		16:00			27	21	48							
04:15			0	0	0		16:15			12	15	27							
04:30			2	0	2		16:30			11	20	31							
04:45			3	5	0		16:45			18	68	18	74	36	142				
05:00			0	0	0		17:00			23	15	38							
05:15			3	2	5		17:15			16	15	31							
05:30			5	2	7		17:30			6	8	14							
05:45			4	12	2	6	17:45			5	50	19	52	19	102				
06:00			7	5	12		18:00			7	6	13							
06:15			8	6	14		18:15			11	11	22							
06:30			11	10	21		18:30			17	8	25							
06:45			17	43	16	37	18:45			14	49	11	36	25	85				
07:00			11	16	27		19:00			6	8	14							
07:15			13	29	42		19:15			4	5	9							
07:30			43	96	139		19:30			2	3	5							
07:45			67	134	102	243	19:45			2	14	2	18	4	32				
08:00			34	29	63		20:00			2	1	3							
08:15			39	27	66		20:15			3	6	9							
08:30			48	50	98		20:30			2	8	10							
08:45			22	143	15	121	20:45			3	10	4	19	7	29				
09:00			11	5	16		21:00			1	1	2							
09:15			10	11	21		21:15			1	1	2							
09:30			9	8	17		21:30			3	2	5							
09:45			5	35	6	30	21:45			2	7	1	5	3	12				
10:00			8	6	14		22:00			1	2	3							
10:15			16	13	29		22:15			1	1	2							
10:30			10	18	28		22:30			3	1	4							
10:45			14	48	8	45	22:45			2	7	1	5	3	12				
11:00			8	9	17		23:00			1	1	2							
11:15			14	5	19		23:15			0	0	0							
11:30			11	11	22		23:30			3	1	4							
11:45			15	48	13	38	23:45			0	4	2	4	2	8				
TOTALS			473	527	1000		TOTALS			615	549	1164							
SPLIT %			47.3%	52.7%	46.2%		SPLIT %			52.8%	47.2%	53.8%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,088	1,076						2,164
AM Peak Hour			07:45	07:15	07:30		PM Peak Hour			14:30	14:45	14:45							
AM Pk Volume			188	256	437		PM Pk Volume			173	136	307							
Pk Hr Factor			0.701	0.627	0.646		Pk Hr Factor			0.475	0.654	0.537							
7 - 9 Volume	0	0	277	364	641		4 - 6 Volume	0	0	118	126	244							
7 - 9 Peak Hour			07:45	07:15	07:30		4 - 6 Peak Hour			16:00	16:00	16:00							
7 - 9 Pk Volume	0	0	188	256	437		4 - 6 Pk Volume	0	0	68	74	142							
Pk Hr Factor	0.000	0.000	0.701	0.627	0.646		Pk Hr Factor	0.000	0.000	0.630	0.881	0.740							