

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

September 1, 2023

TO: Community Planning/Sponsor Group Chairpersons

FROM: Secretary, Traffic Advisory Committee

MEETING NOTICE

Attached is the preliminary agenda for the September 8, 2023 meeting of the Traffic Advisory Committee (TAC).

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.

This TAC meeting on September 8, 2023, will be conducted with a virtual meeting platform option. Please join us in person or 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: 225 419 354 455

Passcode: PDJ4QG

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

Or call in (audio only)

[+1 619-343-2539,,568629845#](#) United States, San Diego

Phone Conference ID: 568 629 845#

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

Very truly yours,

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

KRJ:bb
Attachment



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

September 8, 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. TEMPORARY ROAD CLOSURE	QUARRY ROAD 950' E/O SWEETWATER RD TO CUL-DE-SAC	LA PRESA/ SWEETWATER CPG
<u>SUPERVISORIAL DISTRICT 2</u>		
2-A. TEMPORARY ROAD CLOSURE	CAMINO MONTE SOMBRA 275' E/O CALLE DE LA SIERRA TO END	LA CRESTA/ C-D-HC-GH CPG
2-B. TEMPORARY ROAD CLOSURE	MAST BOULEVARD MARATHON PY TO CUL-DE-SAC	SANTEE/ LAKESIDE CPG
2-C. RADAR CERTIFICATION	LAKESHORE DRIVE VINE ST TO LAKEVIEW RD	LAKESIDE/ LAKESIDE CPG
2-D. RADAR CERTIFICATION	PROCTOR VALLEY ROAD SR-94 TO 1,600' N/O CALLE BUENO GANAR	JAMUL/ JAMUL-DULZURA CPG
2-E. RADAR CERTIFICATION	PROCTOR VALLEY ROAD 1,600' N/O CALLE BUENO GANAR TO 880' W/O ECHO VALLEY RD	JAMUL/ JAMUL-DULZURA CPG
<u>SUPERVISORIAL DISTRICT 5</u>		
3-A. RADAR CERTIFICATION	LOMAS SANTA FE DR/LINEA DEL CIELO HIGHLAND DR TO 1,600' W/O EL CAMINO REAL	RANCHO SAN DIEGUITO/ SAN DIEGUITO CPG
3-B. RADAR CERTIFICATION	LINEA DEL CIELO 1,600' W/O EL CAMINO REAL TO 180' E/O EL FUEGO	RANCHO SAN DIEGUITO/ SAN DIEGUITO CPG
<u>SUPERVISORIAL DISTRICT 4</u>		
4-A. TEMPORARY ROAD CLOSURE	WHITESTONE ROAD 130' N/O LAKE RIDGE CT TO CUL-DE-SAC	CASA DE ORO/ SPRING VALLEY CPG
<u>SUPERVISORIAL DISTRICT 5</u>		
5-A. TRUCK RESTRICTION	MONTEZUMA VALLEY ROAD SAN FELIPE RD TO PALM CANYON DR	RANCHITA/ WARNER SPRINGS CSG/ BORREGO SPRINGS 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>

Quarry Road

950' E/o Sweetwater Road to Cul-de-sac (a distance of 230')

1-A. Temporary Road Closure



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 1-A

SUPERVISORIAL DISTRICT: 1

SUBJECT: Temporary Road Closure

LOCATION: Quarry Road, from a point 950' east of Sweetwater Road easterly to the cul-de-sac (a distance of 230 feet), LA PRESA (Thos. Bros. 1290-J7)

INITIATED BY: Traffic Engineering

REQUEST: Establish a temporary road closure

PROBLEM AS STATED BY REQUESTER:

This item would be the establishment of a temporary road closure on Quarry Road as a result of serious and continual illegal dumping. The California Vehicle Code Section 21101.4 allows for a local authority to adopt rules and regulations for the temporary closing to through traffic a highway under its jurisdiction when specific criteria exist including serious and continual illegal dumping. There has been joint recommendation made by the Department of the Sheriff and the California Highway Patrol for such a closure on this portion of Mast Boulevard. Utility Districts and Emergency Services will be given access to the proposed closed section for maintenance and emergency service. The resolution enacting the temporary road closure dictates this closure may be extended for a total of eight additional consecutive periods of not more than 18 months each where a public hearing is held and the same findings be made.

DATA:

Existing Traffic Devices

Quarry Road is a 28-foot wide, striped, two-lane roadway with no passing centerline. The road has a "\$1,000 Fine for Littering" sign in place. The roadway is unclassified on the County General Plan Mobility Element Network. The roadway does not have a posted speed limit.

Subject: Letter of Support - Quarry Road temporary closure

From: Rowley, Nathan <Nathan.Rowley@sdsheriff.org>

Sent: Thursday, August 17, 2023 6:32 AM

Subject: RE: Letter of Support - Quarry Road temporary closure

Good morning,

For clarification of the supported closure and to ensure access to the local residents, the San Diego Sheriff's Department would support the closure north of the last residence located at 5785 Quarry Road. The estimated closure should occur at the 5800 block or greater of Quarry Road.

Sincerely,



Nathan Rowley

Lieutenant

Law Enforcement Services Bureau

Traffic Coordinator / VAU / VS / HART

Email: Nathan.Rowley@SDSheriff.org

Phone: 858-974-2089 | Mobile: 760-271-2098

www.sdsheriff.net

SAN DIEGO COUNTY

SHERIFF'S DEPARTMENT

From: Rowley, Nathan

Sent: Monday, August 14, 2023 7:55 AM

Subject: Letter of Support - Quarry Road temporary closure

Good morning,

It is the position of the Traffic Coordinator for the San Diego Sheriff's Department and the Lieutenant of the Imperial Beach Station (which provides law enforcement services to the location) to support a temporary closure of Quarry Road, northeast of Sweetwater Road, at the cul-de-sac. The area of the roadway attracts illegal exhibition of speed, illegal activity, illegal dumping, and a nuisance for the area residents. Additionally, the temporary closure would not negatively impact traffic flow in the area.

Thank you for your time regarding this matter,
Nate



Nathan Rowley

Lieutenant

Law Enforcement Services Bureau

Traffic Coordinator / VAU / VS / HART

Email: Nathan.Rowley@SDSheriff.org

Phone: 858-974-2089 | Mobile: 760-271-2098

www.sdsheriff.net

SAN DIEGO COUNTY

SHERIFF'S DEPARTMENT

DEPARTMENT OF CALIFORNIA HIGHWAY PATROL

5902 Kearny Villa Road
San Diego, CA 92123
(858) 293-6000
(800) 735-2929 (TT/TDD)
(800) 735-2922 (Voice)



August 11, 2023

File No.: 645.16448.18173

County of San Diego
Traffic Advisory Committee
Kenton Jones
5510 Overland Avenue, Room 410
San Diego, CA 92123

Dear Kenton Jones,

The San Diego County Traffic Advisory Committee contacted the California Highway Patrol San Diego Area regarding ongoing concerns raised by the San Diego County Department of Public Works and the community of Bonita. Recently, there has been an increase of illegal dumping at 5800 Quarry Road, which is a cul-de-sac, northeast of Sweetwater Road. The cleanup has cost San Diego County a substantial amount of funding and resources to clean. The San Diego County Sheriff's Department has conducted several investigations into the illegal dumping. In addition, the California Highway Patrol has responded to numerous reports of reckless driving in the cul-de-sac. This portion of Quarry Road is not designated as through highway; therefore, a closure will not adversely affect traffic flow.

In accordance with California Vehicle Code Section 21101.4 (a), the California Highway Patrol San Diego Area supports the temporary closure of Quarry Road northeast of 5785 Quarry Road to the terminating cul-de-sac. It is anticipated; the closure of this portion of Quarry Road will reduce illegal dumping and other illegal activity in the area, make a positive impact on the quality of life for the Bonita area, and reduce calls for service from law enforcement and other first responders.

Should you have any questions regarding this matter, please contact Lieutenant R. Alcaraz, ID 19515, at (858) 293-6000.

Sincerely,

A blue ink signature, likely of R. Williams, written in a cursive style.

R. WILLIAMS, Captain
Commander
San Diego Area



Safety, Service, and Security

An Internationally Accredited Agency

Camino Monte Sombra

275' E/o Calle de la Sierra to end of County maintenance (a distance of 475')

2-A. Temporary Road Closure



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 9, 2023 **Item 2-A**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Temporary Road Closure

LOCATION: Camino Monte Sombra, from a point 275 feet east of Calle de la Sierra easterly to the end of County maintenance (a distance of 475 feet), CREST (Thos. Bros. 1252-E4)

INITIATED BY: Traffic Engineering

REQUEST: Extend the Temporary Road Closure for an additional 18 months

PROBLEM AS STATED BY REQUESTER:

In both 2001 and 2018, this segment of Camino Monte Sombra was identified by the Sheriff's Department and the California Highway Patrol (CHP) as a location where serious and violent criminal activity was occurring on a frequent basis. In 2001 and 2018, the Board of Supervisors approved a temporary 18-month road closure and subsequent extensions as a result of serious and continual criminal activity.

The resolution enacting the temporary road closure dictates this closure may be extended for a total of eight additional consecutive periods of not more than 18 months each. Also, prior to each extension, a public hearing is held and the same findings be made.

The Board of Supervisors, Law Enforcement Officials, Crest-Dehesa Community Planning Group and affected property owners have consistently supported previous extensions of Camino Monte Sombra's temporary road closure. This item would be the fourth proposed extension for an additional 18 months of the closure reestablished in 2018.

DATA:

Existing Traffic Devices

Camino Monte Sombra is a 28-foot wide, striped, two-lane roadway with a parking prohibition along both sides in advance of the closed segment. The closed segment has a "\$1,000 Fine for Littering" sign in place. The roadway is unclassified on the County General Plan Mobility Element Network. The roadway does not have a posted speed limit.

Mast Boulevard

Pinery Grove/Marathon Parkway to cul-de-sac (a distance of 850')



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023 **Item 2-B**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Temporary Road Closure

LOCATION: Mast Boulevard, from Pinery Grove/Marathon Parkway to the end of the Cul-de-Sac (a distance of 850 feet), LAKESIDE (Thos. Bros. 1231-G4)

INITIATED BY: Traffic Engineering

REQUEST: Extend the Temporary Road Closure for an additional 18 months

PROBLEM AS STATED BY REQUESTER:

In 2018, this segment of Mast Boulevard was identified by the Sheriff's Department and the California Highway Patrol (CHP) as a location where serious and continual criminal activity was occurring on a frequent basis. In 2019, the Board of Supervisors approved a temporary 18-month road closure and subsequent extensions as a result of serious and continual criminal activity.

The resolution enacting the temporary road closure dictates this closure may be extended for a total of eight additional consecutive periods of not more than 18 months each. Also, prior to each extension, a public hearing is held and the same findings be made.

The Board of Supervisors, Law Enforcement Officials, Lakeside Community Planning Group and affected property owners supported Mast Boulevard's temporary road closure. This item would be the third proposed extension for an additional 18 months of the closure established in 2018.

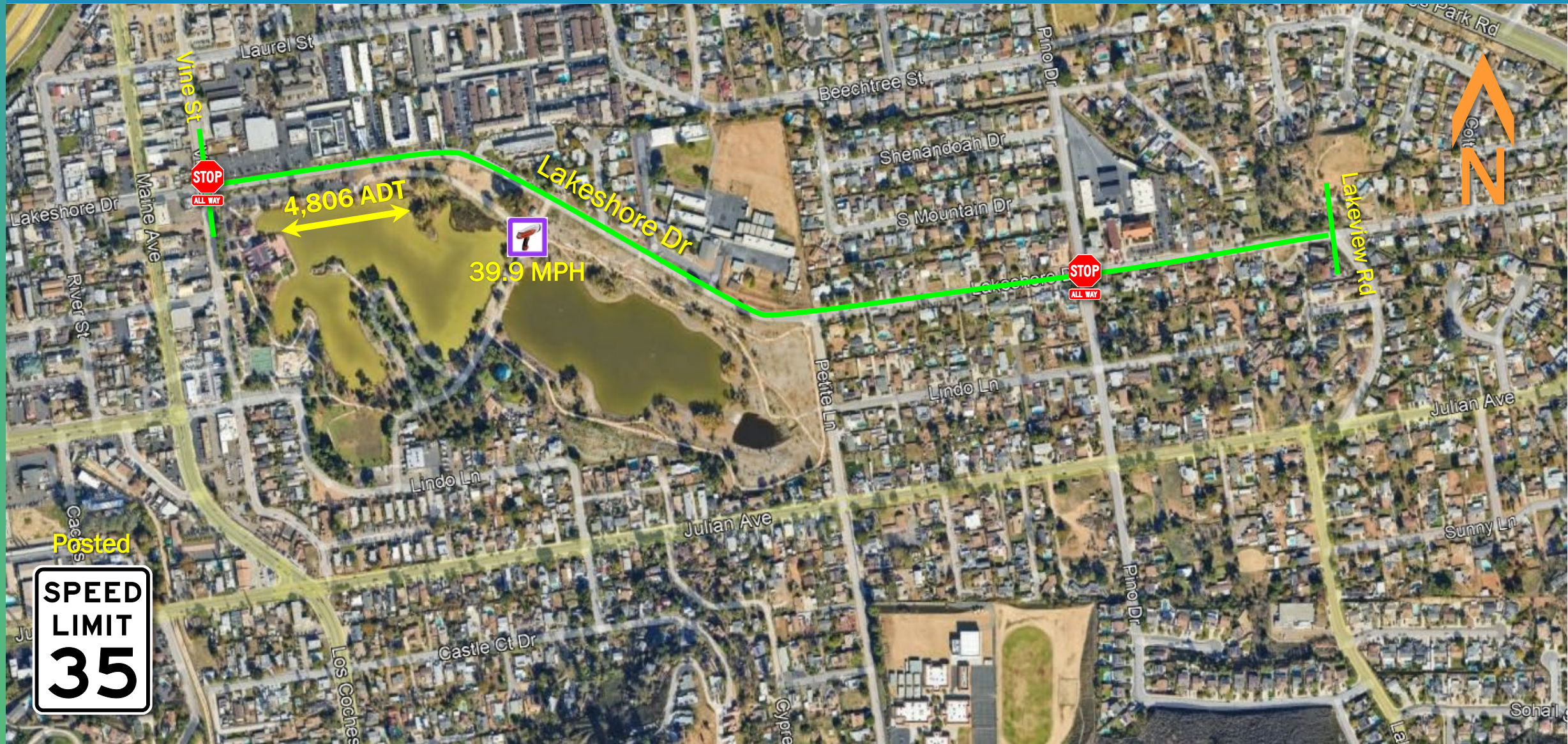
DATA:

Existing Traffic Devices

Mast Blvd is a 56-foot striped two-lane roadway with bike lanes and raised median. There is currently a "Dumping Prohibited" sign at the Cul-de-Sac. The road does not have a posted speed limit. Although the roadway is classified on the County General Plan Mobility Element Network as a Major road and Mast Blvd from Carlton Hills Blvd (Santee) to its eastern end has been designated a through highway, this small 850' segment is a stub road with no plans for development.

Lakeshore Drive

Vine Street to Lakeview Road
(0.96 miles)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 2-C

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Certification

LOCATION: Lakeshore Drive from Vine Street to Lakeview Road (a distance of 0.96 miles) LAKESHORE (Thos. Bros. 1232-B3)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Lakeshore Drive from Vine Street to Lakeview Road is currently posted with a 35 MPH speed limit. A preliminary review of prevailing speeds and roadway conditions could support radar certification of the 35 MPH speed limit.

Existing Traffic Devices

Lakeshore Drive is a striped 2-lane undivided highway that is 28 to 40 feet wide. The roadway is striped with a no passing centerline and white edgeline from Vine Street to Petite Lane. From Petite Lane to Lakeview Road, the roadway is striped with no passing centerline. Lakeshore Drive is posted with a turn advisory, school warning assemblies, school speed limit assemblies, and school crossing assemblies at two uncontrolled crossings, at Petite Lane and the school driveway respectively. There is no parking signage along the south side of the road between Vine Street and Petite Lane. The road is currently unclassified on the County General Plan Mobility Element Network. Lakeshore Drive is posted with a 35 MPH radar enforced speed limit.

Average Daily Traffic Volumes

Lakeshore Drive:

150' E/o Vine Street

08/23

4,806

07/16

5,370

Speed Data

Lakeshore Drive:

230' W/o Lindo Lake Place

**85th
Percentile**

(2023) 39.5 MPH
(2016) 38.5 MPH

**10 MPH
Pace**

32-41
29-38

**% in
Pace**

79%
74%

Collision Data

There have been 9 reported collisions, 4 of which included an injury, along this segment of roadway in a 3-year period (2020-04-01 to 2023-03-31). These collisions result in a

segment accident rate of 1.78 collisions per million vehicle miles. The statewide average is 1.68 collisions per million vehicle miles for similar suburban, conventional 2 lanes or less, roads with speeds less than 45 MPH.

VOLUME

Lakeshore Dr 150' E/O Vine St

Day: Wednesday
Date: 7/19/2023City: Lakeside
Project #: CA23_040140_001

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						2,392	2,414						4,806
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			3	0	3		12:00			45	42	87							
00:15			4	3	7		12:15			43	66	109							
00:30			2	1	3		12:30			31	43	74							
00:45			4	13	5	18	12:45			40	159	85	355						
01:00			0	1	1		13:00			31	35	66							
01:15			0	0	0		13:15			34	33	67							
01:30			1	2	3		13:30			25	30	55							
01:45			1	2	1	5	13:45			42	132	66	254						
02:00			3	0	3		14:00			46	37	83							
02:15			1	0	1		14:15			43	41	84							
02:30			2	0	2		14:30			26	31	57							
02:45			1	7	1	7	14:45			46	161	87	311						
03:00			1	2	3		15:00			56	47	103							
03:15			2	0	2		15:15			62	25	87							
03:30			1	3	4		15:30			47	39	86							
03:45			1	5	4	13	15:45			61	226	91	367						
04:00			2	4	6		16:00			63	40	103							
04:15			0	3	3		16:15			60	43	103							
04:30			1	7	8		16:30			68	35	103							
04:45			4	7	9	26	16:45			61	252	94	403						
05:00			2	14	16		17:00			63	45	108							
05:15			3	22	25		17:15			60	31	91							
05:30			6	22	28		17:30			68	31	99							
05:45			6	17	34	103	17:45			55	246	119	417						
06:00			5	20	25		18:00			50	29	79							
06:15			7	33	40		18:15			44	38	82							
06:30			13	39	52		18:30			31	32	63							
06:45			18	43	58	175	18:45			47	172	77	301						
07:00			18	38	56		19:00			47	27	74							
07:15			17	50	67		19:15			38	38	76							
07:30			19	56	75		19:30			33	25	58							
07:45			33	87	82	280	19:45			38	156	66	274						
08:00			36	63	99		20:00			39	24	63							
08:15			33	54	87		20:15			25	24	49							
08:30			26	51	77		20:30			24	20	44							
08:45			21	116	79	342	20:45			22	110	40	196						
09:00			30	33	63		21:00			27	12	39							
09:15			25	35	60		21:15			19	14	33							
09:30			28	29	57		21:30			13	8	21							
09:45			32	115	83	263	21:45			14	73	26	119						
10:00			18	27	45		22:00			14	7	21							
10:15			37	32	69		22:15			13	8	21							
10:30			41	25	66		22:30			10	9	19							
10:45			17	113	44	224	22:45			6	43	8	69						
11:00			19	24	43		23:00			4	5	9							
11:15			32	32	64		23:15			4	1	5							
11:30			38	44	82		23:30			4	1	5							
11:45			34	123	70	259	23:45			2	14	6	25						
TOTALS			648	1067	1715		TOTALS			1744	1347	3091							
SPLIT %			37.8%	62.2%	35.7%		SPLIT %			56.4%	43.6%	64.3%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						2,392	2,414						4,806
AM Peak Hour			11:30	08:00	11:30		PM Peak Hour			15:45	12:00	17:00							
AM Pk Volume			160	226	348		PM Pk Volume			252	196	417							
Pk Hr Factor			0.889	0.897	0.798		Pk Hr Factor			0.926	0.742	0.876							
7 - 9 Volume	0	0	203	419	622		4 - 6 Volume	0	0	498	322	820							
7 - 9 Peak Hour			07:45	08:00	07:45		4 - 6 Peak Hour			16:00	17:00	17:00							
7 - 9 Pk Volume	0	0	128	226	345		4 - 6 Pk Volume	0	0	252	171	417							
Pk Hr Factor	0.000	0.000	0.889	0.897	0.871		Pk Hr Factor	0.000	0.000	0.926	0.668	0.876							



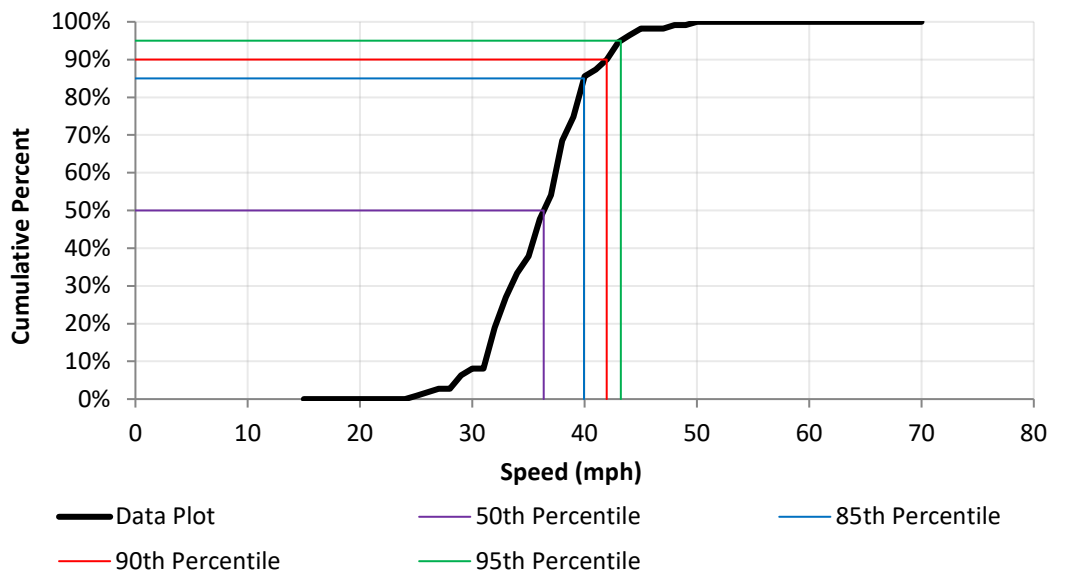
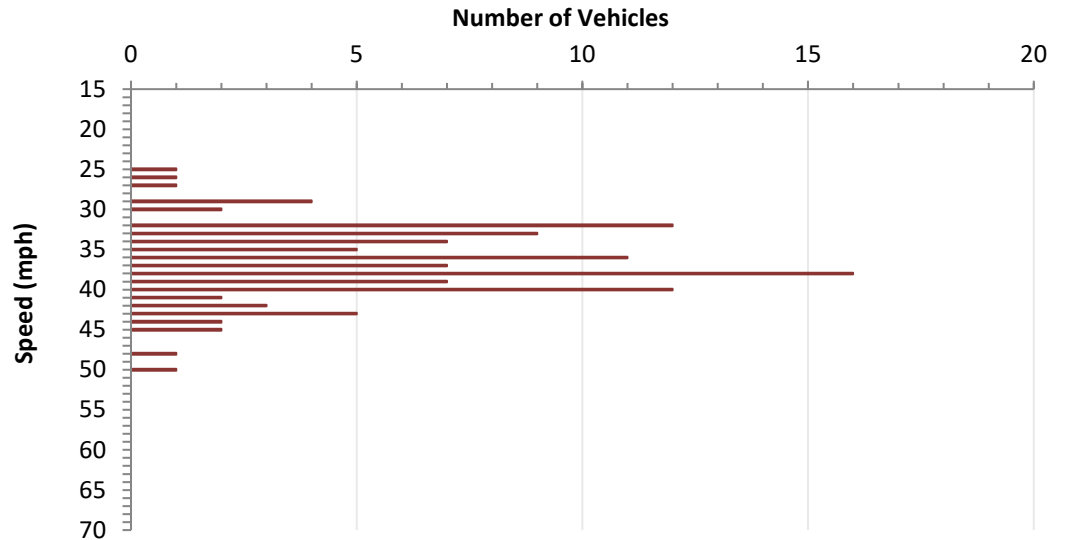
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Lakeshore Dr	From: Vine St	To: Lakeview Rd
Position:	230' WO Lindo Lake Pl	Direction:	EB/WB

Date:	7/6/2023	Weather:	Clear	Project Number:	N/A
Time Start:	12:35 PM	Road Condition:	Dry	Observer:	County
Time End:	1:35 PM	Posted Speed:	35	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25	1	0.9%
26	1	1.8%
27	1	2.7%
28		
29	4	6.3%
30	2	8.1%
31		
32	12	18.9%
33	9	27.0%
34	7	33.3%
35	5	37.8%
36	11	47.7%
37	7	54.1%
38	16	68.5%
39	7	74.8%
40	12	85.6%
41	2	87.4%
42	3	90.1%
43	5	94.6%
44	2	96.4%
45	2	98.2%
46		
47		
48	1	99.1%
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	111	



DATA ANALYSIS

Average Speed	36.6	Range	25 - 50
50th Percentile	36.4	10 mph Pace	32 - 41
85th Percentile	39.9	Number in Pace	88
90th Percentile	42.0	Percent in Pace	79%
95th Percentile	43.2		

Proctor Valley Road

SR-94 to 1600' N/o Calle Bueno Ganar
(0.54 miles)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 2-D

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Certification

LOCATION: Proctor Valley Road from State Route 94 to 1,600' north of Calle Bueno Ganar (a distance of 1.19 miles) JAMUL (Thos. Bros. 1108-C4)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Proctor Valley Road from State Route 94 to 1,600' north of Calle Bueno Ganar is currently posted with a 40 MPH speed limit. A preliminary review of prevailing speeds and roadway conditions could support radar certification a 35 MPH speed limit.

Existing Traffic Devices

Proctor Valley Road is a striped 2-lane undivided highway that is 24 feet wide. The roadway is striped with a no passing centerline. The subject section of Proctor Valley Road is posted with two 15 MPH turn advisories. The road is currently classified as a Light Collector on the County General Plan Mobility Element Network. The subject section of Proctor Valley Road is posted with a 40 MPH radar enforced speed limit.

Average Daily Traffic Volumes

	<u>08/23</u>	<u>07/18</u>
Proctor Valley Road:		
300' S/o State Route 94	2,455	2,675

	<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
<u>Speed Data</u>			
Proctor Valley Road:			
650' W/o Maxfield Road	(2023) 36.0 MPH	27-36	77%
	(2018) 43.4 MPH	34-43	79%

Collision Data

There have been 5 reported collisions, 2 of which included an injury, along this segment of roadway in a 3-year period (2020-04-01 to 2023-03-31). These collisions result in a segment accident rate of 1.57 collisions per million vehicle miles. The statewide average is 1.68 collisions per million vehicle miles for similar suburban, conventional 2 lanes or less, roads with speeds less than 45 MPH.

VOLUME

Proctor Valley Rd 300ft S/O SR-94

Day: Thursday
Date: 08/10/2023City: Jamul
Project #: CA23_040153_011

DAILY TOTALS					NB	SB	EB					WB	Total
					1,262	1,193						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
0:00	0	1			1	12:00	11	17			28		
0:15	0	1			1	12:15	16	25			41		
0:30	3	1			4	12:30	20	23			43		
0:45	1	4	1	4	2	12:45	24	71	14	79	38	150	
1:00	0	0			0	13:00	22	20			42		
1:15	0	1			1	13:15	15	18			33		
1:30	0	1			1	13:30	15	19			34		
1:45	0	0	2		0	13:45	18	70	26	83	44	153	
2:00	0	1			1	14:00	28	21			49		
2:15	0	1			1	14:15	23	15			38		
2:30	0	0			0	14:30	24	25			49		
2:45	2	2	0	2	2	14:45	18	93	24	85	42	178	
3:00	0	1			1	15:00	16	25			41		
3:15	1	0			1	15:15	23	26			49		
3:30	2	1			3	15:30	30	23			53		
3:45	0	3	2	4	2	15:45	15	84	34	108	49	192	
4:00	4	0			4	16:00	15	19			34		
4:15	5	0			5	16:15	20	37			57		
4:30	5	1			6	16:30	20	40			60		
4:45	6	20	1	2	7	16:45	15	70	30	126	45	196	
5:00	8	0			8	17:00	15	22			37		
5:15	12	0			12	17:15	23	39			62		
5:30	15	4			19	17:30	20	28			48		
5:45	14	49	2	6	16	17:45	18	76	23	112	41	188	
6:00	13	3			16	18:00	10	30			40		
6:15	22	3			25	18:15	24	25			49		
6:30	21	8			29	18:30	7	21			28		
6:45	17	73	9	23	26	18:45	13	54	28	104	41	158	
7:00	24	6			30	19:00	5	19			24		
7:15	22	10			32	19:15	12	21			33		
7:30	37	8			45	19:30	12	19			31		
7:45	38	121	8	32	46	19:45	8	37	14	73	22	110	
8:00	35	11			46	20:00	5	11			16		
8:15	24	12			36	20:15	7	13			20		
8:30	21	14			35	20:30	8	15			23		
8:45	18	98	17	54	35	20:45	3	23	17	56	20	79	
9:00	28	22			50	21:00	4	10			14		
9:15	24	8			32	21:15	5	12			17		
9:30	29	12			41	21:30	4	8			12		
9:45	16	97	10	52	26	21:45	3	16	7	37	10	53	
10:00	17	15			32	22:00	2	8			10		
10:15	24	9			33	22:15	3	5			8		
10:30	20	15			35	22:30	5	6			11		
10:45	28	89	15	54	43	22:45	2	12	5	24	7	36	
11:00	20	17			37	23:00	2	6			8		
11:15	26	16			42	23:15	1	4			5		
11:30	27	11			38	23:30	3	3			6		
11:45	19	92	13	57	32	23:45	2	8	1	14	3	22	
TOTALS	648	292			940	TOTALS	614	901			1515		
SPLIT %	68.9%	31.1%			38.3%	SPLIT %	40.5%	59.5%			61.7%		

DAILY TOTALS					NB	SB						EB	WB						Total
					1,262	1,193						0	0						2,455
AM Peak Hour	7:30	11:45			7:30	PM Peak Hour	13:45	16:30			16:30								
AM Pk Volume	134	78			173	PM Pk Volume	93	131			204								
Pk Hr Factor	0.882	0.780			0.940	Pk Hr Factor	0.830	0.819			0.823								
7 - 9 Volume	219	86	0	0	305	4 - 6 Volume	146	238	0	0	384								
7 - 9 Peak Hour	7:30	8:00			7:30	4 - 6 Peak Hour	17:00	16:30			16:30								
7 - 9 Pk Volume	134	54	0	0	173	4 - 6 Pk Volume	76	131	0	0	204								
Pk Hr Factor	0.882	0.794	0.000	0.000	0.940	Pk Hr Factor	0.826	0.819	0.000	0.000	0.823								



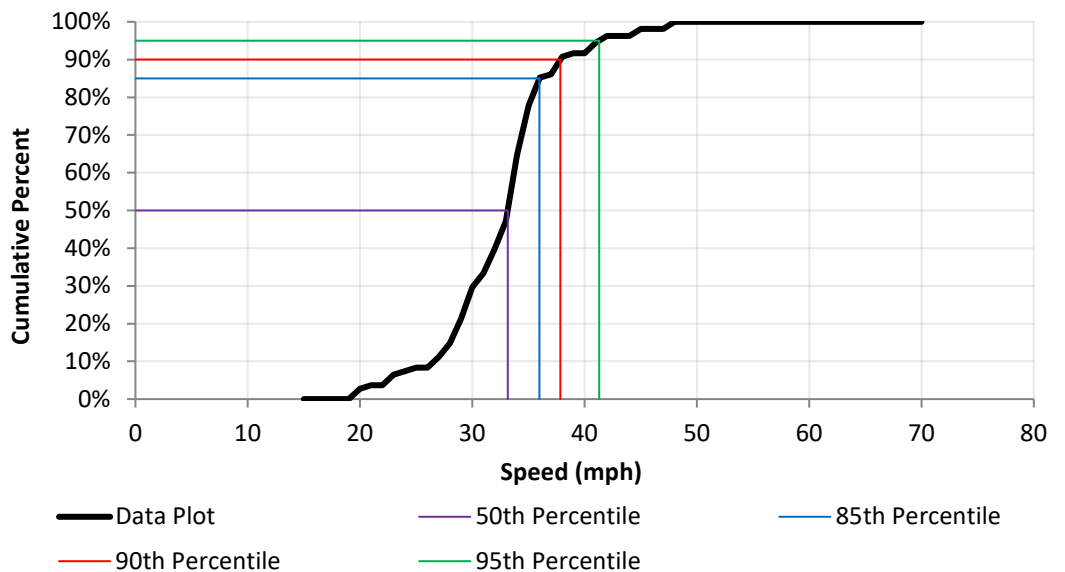
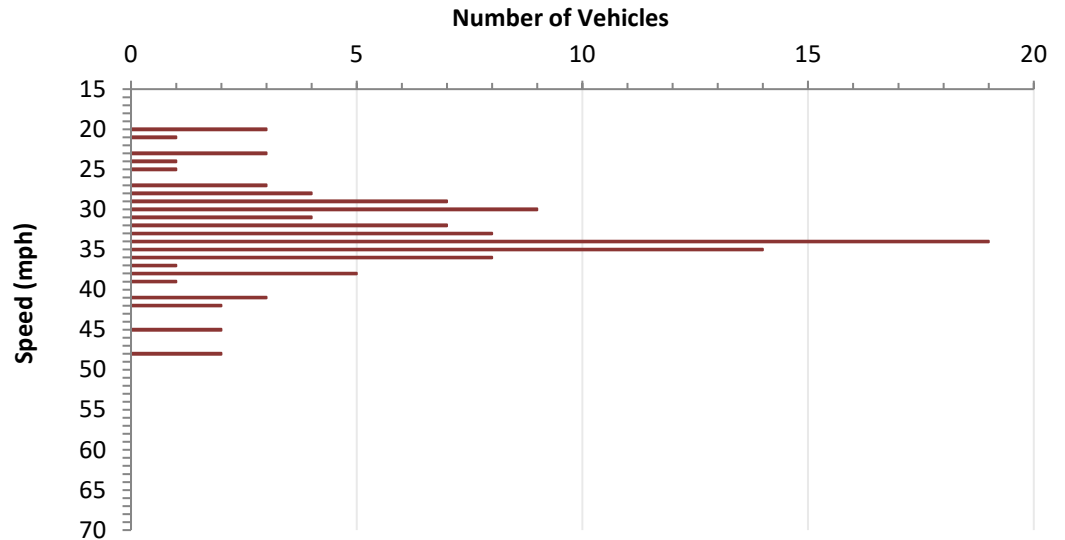
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Proctor Valley Rd	From:	SR-94	To:	1,600' N/o Calle Bueno Ganar
Position:	650' W/o Maxfield Rd	Direction:	WB/EB		

Date:	8/24/2023	Weather:	Clear, Sunny	Project Number:	N/A
Time Start:	10:15 AM	Road Condition:	Dry	Observer:	County
Time End:	11:11 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20	3	2.8%
21	1	3.7%
22		
23	3	6.5%
24	1	7.4%
25	1	8.3%
26		
27	3	11.1%
28	4	14.8%
29	7	21.3%
30	9	29.6%
31	4	33.3%
32	7	39.8%
33	8	47.2%
34	19	64.8%
35	14	77.8%
36	8	85.2%
37	1	86.1%
38	5	90.7%
39	1	91.7%
40		
41	3	94.4%
42	2	96.3%
43		
44		
45	2	98.1%
46		
47		
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	108	



DATA ANALYSIS

Average Speed	33.0	Range	20 - 48
50th Percentile	33.2	10 mph Pace	27 - 36
85th Percentile	36.0	Number in Pace	83
90th Percentile	37.8	Percent in Pace	77%
95th Percentile	41.3		

Proctor Valley Road

1600' N/o Calle Bueno Ganar to 880' W/o Echo Valley Road
(1.88 miles)



2023 Speed Zone
85th Percentile:
43.5 MPH

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 2-D

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Certification

LOCATION: Proctor Valley Road from 1,600' north of Calle Bueno Ganar to 880' east of Echo Valley Road (a distance of 1.88 miles) JAMUL (Thos. Bros. 1108-C4)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Proctor Valley Road from 1,600' north of Calle Bueno Ganar southerly 3,700' is currently posted with a 45 MPH speed limit. Proctor Valley Road from a point 2,100' south of Calle Bueno Ganar to 880' west of Echo Valley Road currently has no posted speed limit and is subject to the state maximum speed limit of 55 MPH. A preliminary review of prevailing speeds and roadway conditions could support radar certification a 45 MPH speed limit.

Existing Traffic Devices

Proctor Valley Road is a striped 2-lane undivided highway that is 24 feet wide. The roadway is striped with a no passing centerline. The subject section of Proctor Valley Road is posted with a 15 MPH turn advisory and a 15 MPH reverse turn advisory. The road is currently classified as a Light Collector on the County General Plan Mobility Element Network. The subject section of Proctor Valley Road is posted with a 45 MPH radar enforced speed limit.

Average Daily Traffic Volumes

08/23

Proctor Valley Road:

100' N/o Proctor Valley Lane	1,841
180' W/o Melody Road	1,426
260' W/o Pioneer Way	491
400' W/o Echo Valley Road	88

Speed Data

Proctor Valley Road:

		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
1,450' N/o Calle Bueno Ganar	(2023)	41.5 MPH	31-40	70%
	(2016)	46.0 MPH	37-46	79%
250' W/o Poplar Meadows Court	(2023)	49.4 MPH	42-51	87%
1,700' E/o Echo Valley Road	(2023)	39.5 MPH	33-42	77%
Speed Zone	(2023)	43.5 MPH	35-44	78%

Collision Data

There have been 3 reported collisions, 1 of which included an injury, along this segment of roadway in a 3-year period (2020-04-01 to 2023-03-31). These collisions result in a segment accident rate of 1.52 collisions per million vehicle miles. The statewide average is 1.24 collisions per million vehicle miles for similar suburban, conventional 2 lanes or less, roads with speeds less than 45 MPH.

VOLUME

Proctor Valley Rd 100ft N/O Proctor Valley Ln

Day: Thursday
Date: 08/10/2023City: Jamul
Project #: CA23_040153_010

DAILY TOTALS					NB	SB	EB					WB	Total
					916	925						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
0:00	0	1			1	12:00	4	15			19		
0:15	0	1			1	12:15	11	13			24		
0:30	2	2			4	12:30	15	21			36		
0:45	1	3	0	4	1	12:45	16	46	14	63	30		
1:00	0	1			1	13:00	17	10			27		
1:15	0	1			1	13:15	12	14			26		
1:30	0	1			1	13:30	11	18			29		
1:45	0	0	3		0	13:45	10	50	20	62	30		
2:00	0	1			1	14:00	16	14			30		
2:15	0	2			2	14:15	15	16			31		
2:30	0	1			1	14:30	15	15			30		
2:45	2	2	0	4	2	14:45	10	56	19	64	29		
3:00	0	1			1	15:00	13	12			25		
3:15	1	0			1	15:15	16	23			39		
3:30	2	2			4	15:30	23	21			44		
3:45	0	3	1	4	1	15:45	9	61	14	70	23		
4:00	3	1			4	16:00	8	17			25		
4:15	4	1			5	16:15	15	26			41		
4:30	4	0			4	16:30	17	31			48		
4:45	5	16	2	4	7	16:45	8	48	22	96	30		
5:00	8	0			8	17:00	11	21			32		
5:15	9	0			9	17:15	14	28			42		
5:30	10	1			11	17:30	17	22			39		
5:45	6	33	1	2	7	17:45	11	53	19	90	30		
6:00	12	2			14	18:00	8	22			30		
6:15	20	2			22	18:15	19	13			32		
6:30	14	6			20	18:30	5	16			21		
6:45	15	61	6	16	21	18:45	10	42	23	74	33		
7:00	14	8			22	19:00	3	18			21		
7:15	18	5			23	19:15	7	14			21		
7:30	30	8			38	19:30	9	13			22		
7:45	28	90	9	30	37	19:45	6	25	14	59	20		
8:00	32	10			42	20:00	2	9			11		
8:15	18	8			26	20:15	8	13			21		
8:30	20	12			32	20:30	5	15			20		
8:45	18	88	12	42	30	20:45	2	17	15	52	17		
9:00	19	13			32	21:00	4	6			10		
9:15	12	6			18	21:15	3	10			13		
9:30	21	3			24	21:30	2	6			8		
9:45	10	62	9	31	19	21:45	2	11	6	28	8		
10:00	13	12			25	22:00	1	10			11		
10:15	20	9			29	22:15	2	8			10		
10:30	19	10			29	22:30	0	4			4		
10:45	19	71	13	44	32	22:45	1	4	1	23	2		
11:00	14	12			26	23:00	1	1			2		
11:15	23	13			36	23:15	0	7			7		
11:30	17	9			26	23:30	1	3			4		
11:45	16	70	14	48	30	23:45	2	4	1	12	3		
TOTALS	499	232			731	TOTALS	417	693			1110		
SPLIT %	68.3%	31.7%			39.7%	SPLIT %	37.6%	62.4%			60.3%		

DAILY TOTALS					NB	SB						EB	WB	Total
					916	925						0	0	1,841
AM Peak Hour	7:15	11:45			7:30	PM Peak Hour	14:45	16:30			16:30			
AM Pk Volume	108	63			143	PM Pk Volume	62	102			152			
Pk Hr Factor	0.844	0.750			0.851	Pk Hr Factor	0.674	0.823			0.792			
7 - 9 Volume	178	72	0	0	250	4 - 6 Volume	101	186	0	0	287			
7 - 9 Peak Hour	7:15	8:00			7:30	4 - 6 Peak Hour	17:00	16:30			16:30			
7 - 9 Pk Volume	108	42	0	0	143	4 - 6 Pk Volume	53	102	0	0	152			
Pk Hr Factor	0.844	0.875	0.000	0.000	0.851	Pk Hr Factor	0.779	0.823	0.000	0.000	0.792			

VOLUME

Proctor Valley Rd 180ft W/O Melody Rd

Day: Thursday
Date: 08/10/2023City: Jamul
Project #: CA23_040153_007

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						716	710						1,426
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
0:00			0	1	1		12:00			7	14	21							
0:15			1	1	2		12:15			9	9	18							
0:30			3	1	4		12:30			7	11	18							
0:45			2	6	0	3	12:45			17	40	31	88						
1:00			0	1	1		13:00			7	10	17							
1:15			0	1	1		13:15			8	11	19							
1:30			0	1	1		13:30			12	12	24							
1:45			0	0	3	0	13:45			6	33	23	83						
2:00			0	1	1		14:00			11	14	25							
2:15			0	1	1		14:15			11	15	26							
2:30			0	1	1		14:30			12	11	23							
2:45			1	1	0	3	14:45			9	43	21	95						
3:00			0	1	1		15:00			11	8	19							
3:15			1	0	1		15:15			9	11	20							
3:30			0	1	1		15:30			19	11	30							
3:45			0	1	1	3	15:45			6	45	19	88						
4:00			4	1	5		16:00			4	15	19							
4:15			5	0	5		16:15			12	17	29							
4:30			3	0	3		16:30			12	24	36							
4:45			3	15	1	2	16:45			5	33	25	109						
5:00			5	1	6		17:00			7	15	22							
5:15			9	0	9		17:15			14	19	33							
5:30			10	1	11		17:30			13	12	25							
5:45			7	31	2	4	17:45			12	46	31	111						
6:00			12	3	15		18:00			6	13	19							
6:15			17	1	18		18:15			10	8	18							
6:30			9	5	14		18:30			7	12	19							
6:45			12	50	5	14	18:45			10	33	27	83						
7:00			16	9	25		19:00			7	13	20							
7:15			13	3	16		19:15			3	13	16							
7:30			24	6	30		19:30			9	8	17							
7:45			20	73	9	27	19:45			7	26	14	67						
8:00			16	9	25		20:00			3	5	8							
8:15			17	9	26		20:15			6	16	22							
8:30			14	11	25		20:30			3	6	9							
8:45			13	60	12	41	20:45			3	15	14	53						
9:00			18	8	26		21:00			0	4	4							
9:15			9	7	16		21:15			3	8	11							
9:30			11	3	14		21:30			2	4	6							
9:45			8	46	6	24	21:45			4	9	9	30						
10:00			10	9	19		22:00			2	6	8							
10:15			14	8	22		22:15			1	9	10							
10:30			14	8	22		22:30			0	4	4							
10:45			12	50	14	39	22:45			0	3	5	27						
11:00			11	9	20		23:00			1	1	2							
11:15			14	7	21		23:15			1	5	6							
11:30			12	6	18		23:30			2	1	3							
11:45			13	50	9	31	23:45			3	7	4	15						
TOTALS			383	194	577		TOTALS			333	516	849							
SPLIT %			66.4%	33.6%	40.5%		SPLIT %			39.2%	60.8%	59.5%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						716	710						1,426
AM Peak Hour			7:30	11:45	7:30		PM Peak Hour			14:45	16:30	16:30							
AM Pk Volume			77	43	110		PM Pk Volume			48	78	116							
Pk Hr Factor			0.802	0.768	0.917		Pk Hr Factor			0.632	0.813	0.806							
7 - 9 Volume	0	0	133	68	201		4 - 6 Volume	0	0	79	141	220							
7 - 9 Peak Hour			7:30	8:00	7:30		4 - 6 Peak Hour			17:00	16:30	16:30							
7 - 9 Pk Volume	0	0	77	41	110		4 - 6 Pk Volume	0	0	46	78	116							
Pk Hr Factor	0.000	0.000	0.802	0.854	0.917		Pk Hr Factor	0.000	0.000	0.821	0.813	0.806							

VOLUME

Proctor Valley Rd 260ft W/O Pioneer Way

Day: Thursday
Date: 08/10/2023City: Jamul
Project #: CA23_040153_008

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						240	251	491	
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL			
0:00			0	0	0		12:00			2	3	5			
0:15			1	1	2		12:15			2	3	5			
0:30			0	0	0		12:30			1	4	5			
0:45			0	1	0	1	12:45			4	9	5	15	9	24
1:00			0	1	1		13:00			2	3	5			
1:15			0	0	0		13:15			1	8	9			
1:30			0	0	0		13:30			6	6	12			
1:45			0	0	1	0	13:45			5	14	8	25	13	39
2:00			0	1	1		14:00			4	4	8			
2:15			0	0	0		14:15			3	9	12			
2:30			0	0	0		14:30			6	3	9			
2:45			0	0	1	0	14:45			4	17	5	21	9	38
3:00			0	1	1		15:00			1	3	4			
3:15			1	0	1		15:15			3	2	5			
3:30			0	1	1		15:30			3	6	9			
3:45			0	1	0	2	15:45			3	10	4	15	7	25
4:00			0	0	0		16:00			3	5	8			
4:15			1	0	1		16:15			5	3	8			
4:30			0	0	0		16:30			7	4	11			
4:45			0	1	1	1	16:45			1	16	7	19	8	35
5:00			1	1	2		17:00			4	2	6			
5:15			2	0	2		17:15			7	4	11			
5:30			1	0	1		17:30			6	8	14			
5:45			1	5	0	1	17:45			3	20	7	21	10	41
6:00			4	1	5		18:00			4	5	9			
6:15			8	1	9		18:15			4	3	7			
6:30			3	2	5		18:30			3	5	8			
6:45			6	21	4	8	18:45			2	13	5	18	7	31
7:00			3	2	5		19:00			1	3	4			
7:15			4	2	6		19:15			1	5	6			
7:30			7	1	8		19:30			3	1	4			
7:45			8	22	5	10	19:45			4	9	3	12	7	21
8:00			6	0	6		20:00			0	1	1			
8:15			7	2	9		20:15			1	11	12			
8:30			1	5	6		20:30			0	4	4			
8:45			4	18	7	14	20:45			1	2	1	17	2	19
9:00			10	3	13		21:00			0	0	0			
9:15			2	4	6		21:15			1	4	5			
9:30			3	0	3		21:30			1	0	1			
9:45			3	18	2	9	21:45			0	2	1	5	1	7
10:00			2	2	4		22:00			0	1	1			
10:15			7	1	8		22:15			0	3	3			
10:30			5	4	9		22:30			0	1	1			
10:45			7	21	3	10	22:45			0	2	7		2	7
11:00			4	6	10		23:00			0	0	0			
11:15			6	3	9		23:15			0	1	1			
11:30			4	1	5		23:30			0	0	0			
11:45			5	19	6	16	23:45			1	1	1	2	2	3
TOTALS	127			74	201		TOTALS	113			177	290			
SPLIT %	63.2%			36.8%	40.9%		SPLIT %	39.0%			61.0%	59.1%			

DAILY TOTALS					NB	SB						EB	WB	Total	
					0	0						240	251	491	
AM Peak Hour			7:30	8:30	8:15		PM Peak Hour			17:00	13:30	13:30			
AM Pk Volume			28	19	39		PM Pk Volume			20	27	45			
Pk Hr Factor			0.875	0.679	0.750		Pk Hr Factor			0.714	0.750	0.865			
7 - 9 Volume	0	0	40	24	64		4 - 6 Volume	0	0	36	40	76			
7 - 9 Peak Hour			7:30	8:00	7:30		4 - 6 Peak Hour			17:00	16:45	17:00			
7 - 9 Pk Volume	0	0	28	14	36		4 - 6 Pk Volume	0	0	20	21	41			
Pk Hr Factor	0.000	0.000	0.875	0.500	0.692		Pk Hr Factor	0.000	0.000	0.714	0.656	0.732			

City: Jamul
Project #: CA23_040153_009

DAILY TOTALS			NB	SB	EB			WB			Total
			0	0							43
AM Peak Hour			10:30	7:00	10:30	PM Peak Hour			16:30	13:30	13:45
AM Pk Volume			6	6	11	PM Pk Volume			8	6	12
Pk Hr Factor			0.750	0.500	0.393	Pk Hr Factor			0.667	0.500	0.750
7 - 9 Volume	0	0	2	8	10	4 - 6 Volume	0	0	11	6	17
7 - 9 Peak Hour			7:00	7:00	7:00	4 - 6 Peak Hour			16:30	16:00	16:30
7 - 9 Pk Volume	0	0	1	6	7	4 - 6 Pk Volume	0	0	8	4	10
Pk Hr Factor	0.000	0.000	0.250	0.500	0.583	Pk Hr Factor	0.000	0.000	0.667	1.000	0.625



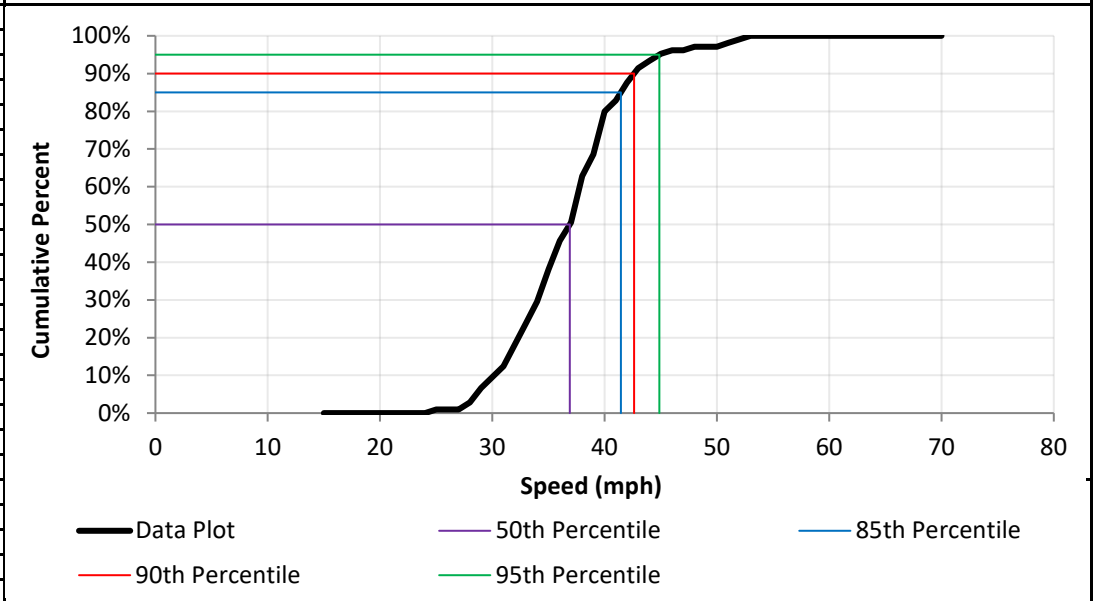
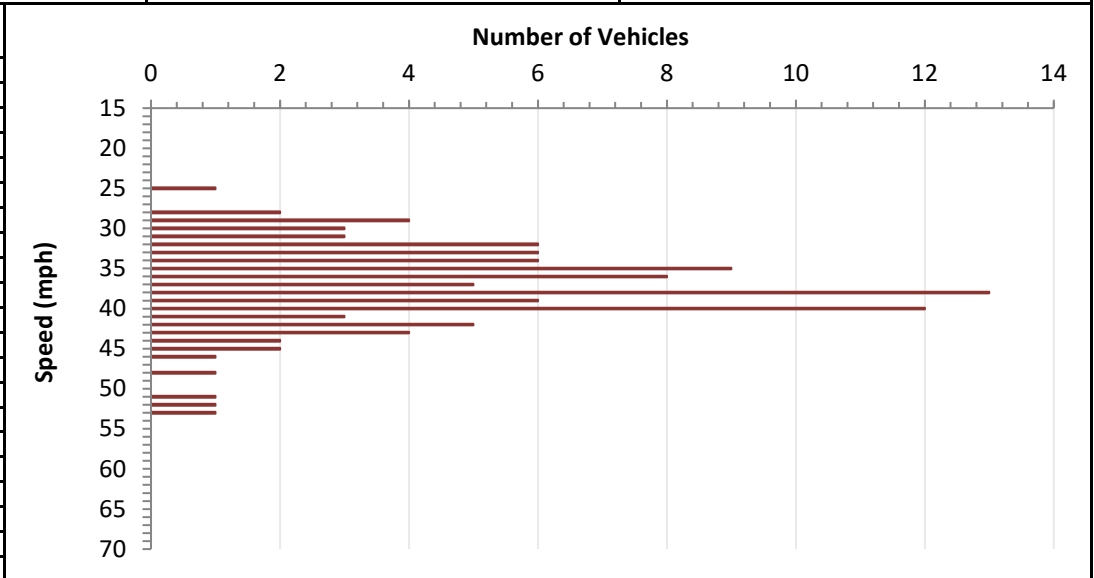
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Proctor Valley Rd	From:	1,600' N/o Calle Bueno Ganar	To:	880' W/o Echo Valley Rd
Position:	1,450' N/o Calle Bueno Ganar	Direction:	NB/SB		

Date:	8/15/2023	Weather:	Clear, Sunny	Project Number:	N/A
Time Start:	10:54 AM	Road Condition:	Dry	Observer:	County
Time End:	12:00 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	1	1.0%
26		
27		
28	2	2.9%
29	4	6.7%
30	3	9.5%
31	3	12.4%
32	6	18.1%
33	6	23.8%
34	6	29.5%
35	9	38.1%
36	8	45.7%
37	5	50.5%
38	13	62.9%
39	6	68.6%
40	12	80.0%
41	3	82.9%
42	5	87.6%
43	4	91.4%
44	2	93.3%
45	2	95.2%
46	1	96.2%
47		
48	1	97.1%
49		
50		
51	1	98.1%
52	1	99.0%
53	1	100.0%
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	105	



DATA ANALYSIS

Average Speed	37.2	Range	25 - 53
50th Percentile	36.9	10 mph Pace	31 - 40
85th Percentile	41.5	Number in Pace	74
90th Percentile	42.6	Percent in Pace	70%
95th Percentile	44.9		



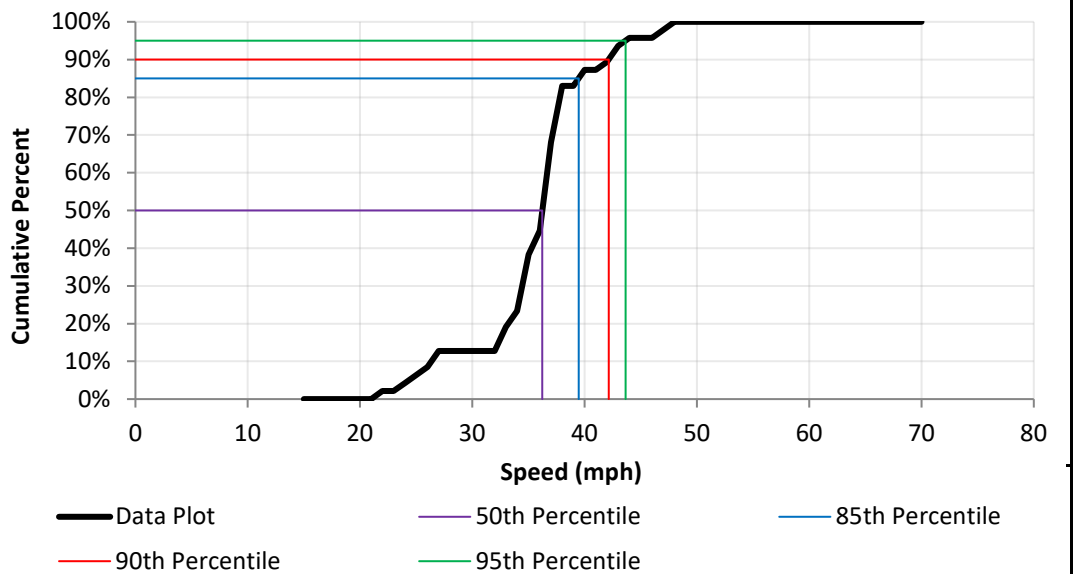
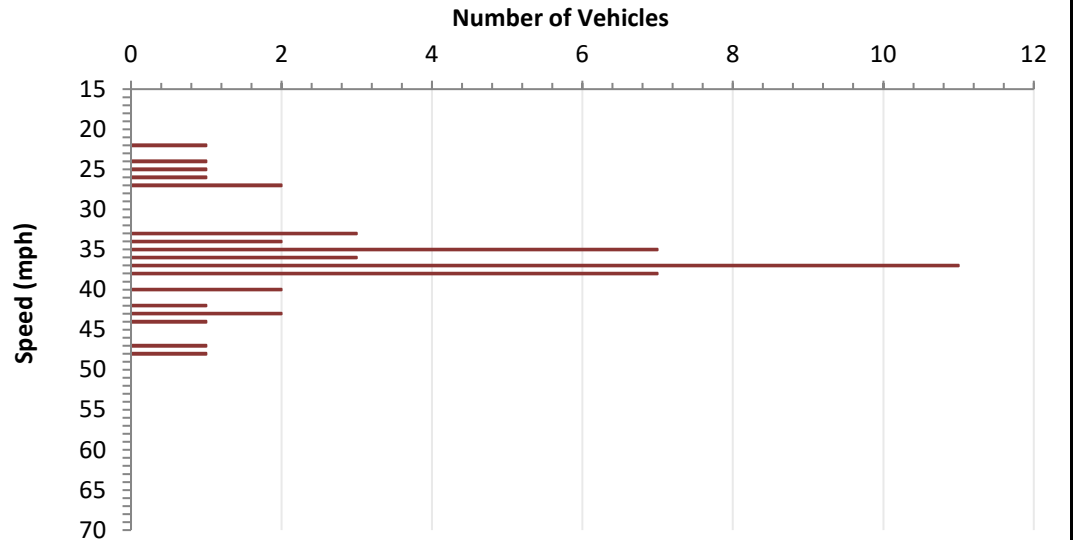
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Proctor Valley Rd	From:	1,600' N/o Calle Bueno Ganar	To:	880' W/o Echo Valley Rd
Position:	1,700' E/o Echo Valley Rd	Direction:	WB/EB		

Date:	8/16/2023	Weather:	Clear, Sunny	Project Number:	N/A
Time Start:	10:34 AM	Road Condition:	Dry	Observer:	County
Time End:	12:34 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22	1	2.1%
23		
24	1	4.3%
25	1	6.4%
26	1	8.5%
27	2	12.8%
28		
29		
30		
31		
32		
33	3	19.1%
34	2	23.4%
35	7	38.3%
36	3	44.7%
37	11	68.1%
38	7	83.0%
39		
40	2	87.2%
41		
42	1	89.4%
43	2	93.6%
44	1	95.7%
45		
46		
47	1	97.9%
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	47	



DATA ANALYSIS

Average Speed	36.0	Range	22 - 48
50th Percentile	36.2	10 mph Pace	33 - 42
85th Percentile	39.5	Number in Pace	36
90th Percentile	42.2	Percent in Pace	77%
95th Percentile	43.7		



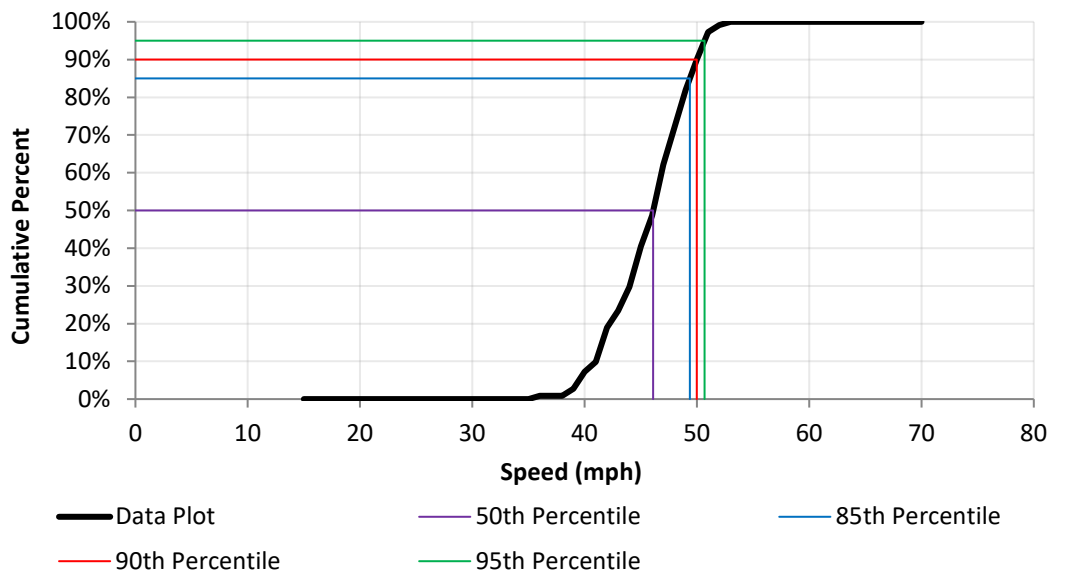
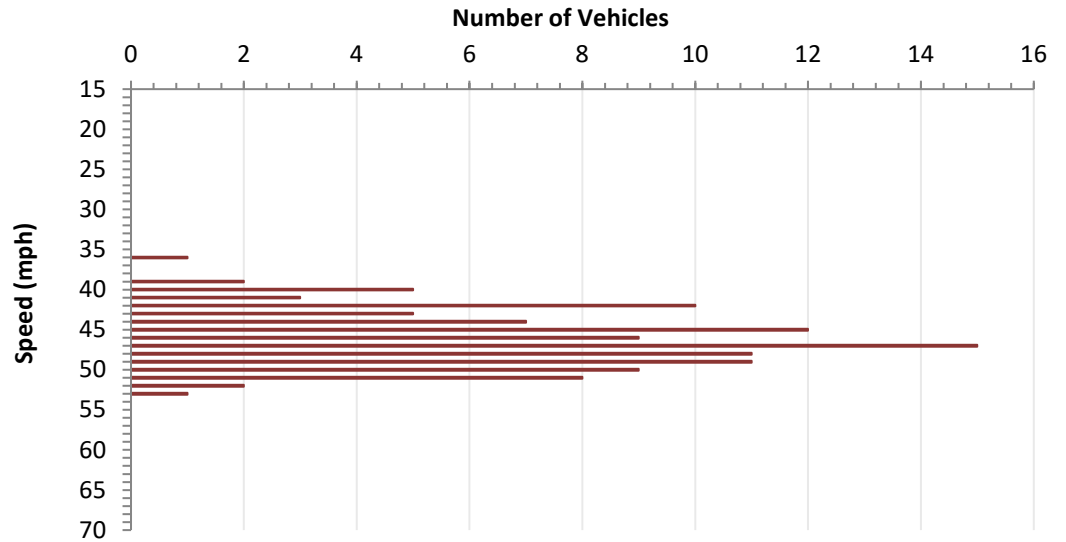
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Proctor Valley Rd	From:	1,600' N/o Calle Bueno Ganar	To:	880' W/o Echo Valley Rd
Position:	250' W/o Poplar Meadows Ct	Direction:	NB/SB		

Date:	8/15/2023	Weather:	Clear	Project Number:	23-040154-012
Time Start:	11:30 AM	Road Condition:	Dry	Observer:	Contractor
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		
29		
30		
31		
32		
33		
34		
35		
36	1	0.9%
37		
38		
39	2	2.7%
40	5	7.2%
41	3	9.9%
42	10	18.9%
43	5	23.4%
44	7	29.7%
45	12	40.5%
46	9	48.6%
47	15	62.2%
48	11	72.1%
49	11	82.0%
50	9	90.1%
51	8	97.3%
52	2	99.1%
53	1	100.0%
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	111	



DATA ANALYSIS

Average Speed	46.1	Range	36 - 53
50th Percentile	46.1	10 mph Pace	42 - 51
85th Percentile	49.4	Number in Pace	97
90th Percentile	50.0	Percent in Pace	87%
95th Percentile	50.7		

Lomas Santa Fe Dr/Linea del Cielo

Highland Dr to 1600' W/o El Camino Real
(0.65 miles)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 3-A

SUPERVISORIAL DISTRICT: 3

SUBJECT: Radar Certification

LOCATION: Lomas Santa Fe Dr/Linea del Cielo from the Solana Beach city limit (at Highland Drive) to 1,600' west of El Camino del Norte (a distance of 0.65 miles) RANCHO SAN DIEGUITO (Thos. Bros. 1167-J6)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Lomas Santa Fe Dr/Linea del Cielo from the Solana Beach city limit (at Highland Drive) to 1,600' west of El Camino del Norte is currently posted with a 45 MPH speed limit. A preliminary review of prevailing speeds and roadway conditions could support radar certification a 45 MPH speed limit.

Existing Traffic Devices

Lomas Santa Fe Drive is a striped 2-lane undivided highway that is 40 feet wide. The road is striped with a no passing centerline and bikelane. Lomas Santa Fe Drive is posted with trail crossing signs. There is an uncontrolled multiuse trail crossing across the roadway at the intersection with Sun Valley Road w/ posted signs and rectangular rapid-flashing beacons. Lomas Santa Fe Drive is currently classified as a Light Collector Road on the County General Plan Mobility Element Network. The road is posted with a 45 MPH radar enforced speed limit.

Linea del Cielo is a striped 2-lane undivided highway that is 24 feet wide. The road is striped with a no passing centerline and white edgeline. Linea del Cielo is currently classified as a Light Collector 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

Lomas Santa Fe Drive:

375' E/o Sun Valley Road

06/23

8,396

06/16

8,446

Speed Data

Lomas Santa Fe Drive:

2,100' E/o Sun Valley Road

**85th
Percentile**

(2023) 43.0 MPH
(2015) 39.2 MPH

**10 MPH
Pace**

35-44
31-40

**% in
Pace**

82.0%
82.0%

Collision Data

There have been 4 reported collisions, 2 of which included an injury, along this segment of roadway in a 3-year period (2020-04-01 to 2023-03-31). These collisions result in a segment accident rate of 0.67 collisions per million vehicle miles. The statewide average is 1.24 collisions per million vehicle miles for similar suburban, conventional 2 lanes or less, roads with speeds 45 to 55 MPH.

VOLUME

Linea Del Cielo 375' E/O Sun Valley Rd

Day: Thursday
Date: 6/8/2023City: Del Mar
Project #: CA23_040123_003

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						4,153	4,243						8,396
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							
00:00			1	1	2		12:00			82	92	174							
00:15			4	2	6		12:15			64	89	153							
00:30			1	4	5		12:30			90	79	169							
00:45			7	13	8	21	12:45			83	319	152	648						
01:00			3	1	4		13:00			82	65	147							
01:15			2	1	3		13:15			87	71	158							
01:30			1	1	2		13:30			79	82	161							
01:45			0	6	0	3	13:45			88	336	177	643						
02:00			1	1	2		14:00			81	70	151							
02:15			0	0	0		14:15			64	107	171							
02:30			0	1	1		14:30			85	89	174							
02:45			1	2	0	2	14:45			80	310	155	651						
03:00			3	0	3		15:00			88	95	183							
03:15			0	0	0		15:15			86	95	181							
03:30			2	1	3		15:30			85	100	185							
03:45			1	6	0	1	15:45			78	337	156	705						
04:00			0	2	2		16:00			73	84	157							
04:15			2	2	4		16:15			66	80	146							
04:30			2	4	6		16:30			72	66	138							
04:45			1	5	7	15	16:45			98	309	180	621						
05:00			1	3	4		17:00			96	80	176							
05:15			2	4	6		17:15			100	89	189							
05:30			5	8	13		17:30			91	85	176							
05:45			8	16	12	27	17:45			77	364	142	683						
06:00			9	16	25		18:00			71	65	136							
06:15			24	29	53		18:15			53	63	116							
06:30			45	31	76		18:30			56	41	97							
06:45			63	141	52	128	18:45			51	231	96	445						
07:00			36	45	81		19:00			42	40	82							
07:15			47	59	106		19:15			45	34	79							
07:30			43	52	95		19:30			44	25	69							
07:45			51	177	79	235	19:45			58	189	93	323						
08:00			67	91	158		20:00			37	18	55							
08:15			73	83	156		20:15			39	19	58							
08:30			52	91	143		20:30			45	27	72							
08:45			67	259	99	364	20:45			28	149	49	234						
09:00			58	85	143		21:00			24	10	34							
09:15			51	63	114		21:15			30	11	41							
09:30			53	81	134		21:30			26	12	38							
09:45			60	222	70	299	21:45			23	103	35	148						
10:00			71	83	154		22:00			24	5	29							
10:15			70	91	161		22:15			8	11	19							
10:30			61	79	140		22:30			12	9	21							
10:45			76	278	72	325	22:45			13	57	21	90						
11:00			62	80	142		23:00			10	3	13							
11:15			88	85	173		23:15			8	4	12							
11:30			70	86	156		23:30			7	3	10							
11:45			75	295	85	336	23:45			4	29	7	42						
TOTALS			1420	1743	3163		TOTALS			2733	2500	5233							
SPLIT %			44.9%	55.1%	37.7%		SPLIT %			52.2%	47.8%	62.3%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						4,153	4,243						8,396
AM Peak Hour			11:15	08:00	11:15		PM Peak Hour			16:45	15:00	16:45							
AM Pk Volume			315	364	663		PM Pk Volume			385	368	721							
Pk Hr Factor			0.895	0.919	0.953		Pk Hr Factor			0.963	0.920	0.954							
7 - 9 Volume	0	0	436	599	1035		4 - 6 Volume	0	0	673	631	1304							
7 - 9 Peak Hour			08:00	08:00	08:00		4 - 6 Peak Hour			16:45	16:45	16:45							
7 - 9 Pk Volume	0	0	259	364	623		4 - 6 Pk Volume	0	0	385	336	721							
Pk Hr Factor	0.000	0.000	0.887	0.919	0.938		Pk Hr Factor	0.000	0.000	0.963	0.944	0.954							



RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

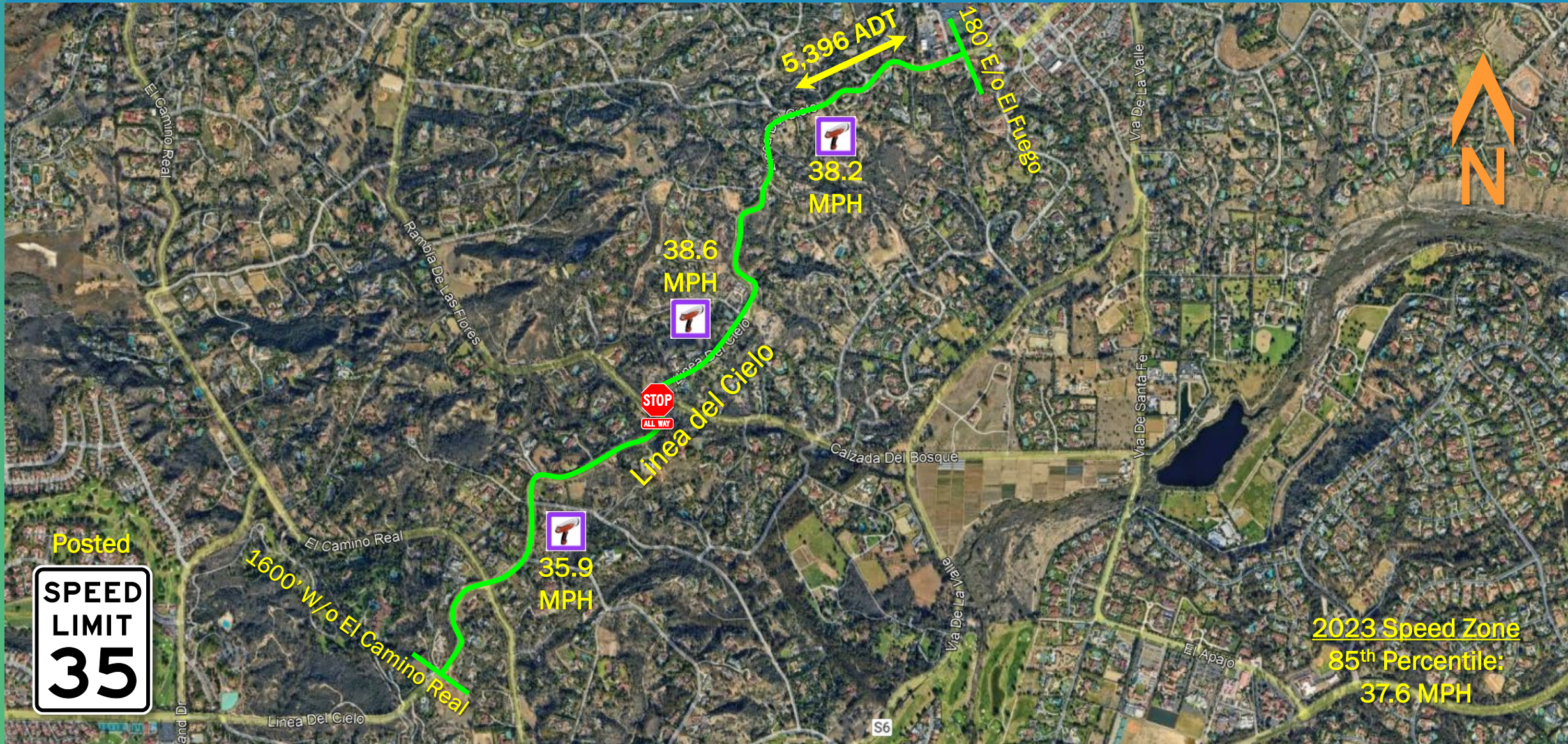
Road Name:	Linea del Cielo	From:	Sun Valley Rd	To:	End of County Maintenance
Position:	2,100' E/o Sun Valley Rd	Direction:	WB/EB		

Date:	6/22/2023	Weather:	Cloudy	Project Number:	N/A
Time Start:	11:07 AM	Road Condition:	Dry	Observer:	County
Time End:	11:28 AM	Posted Speed:	40 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.	Number of Vehicles	
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28	1	0.7%		
29				
30				
31	1	1.4%		
32	3	3.6%		
33	3	5.7%		
34	1	6.4%		
35	7	11.4%		
36	11	19.3%		
37	5	22.9%		
38	14	32.9%		
39	11	40.7%		
40	17	52.9%		
41	24	70.0%		
42	11	77.9%		
43	10	85.0%		
44	5	88.6%		
45	6	92.9%		
46	4	95.7%		
47	2	97.1%		
48	2	98.6%		
49	2	100.0%		
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60			DATA ANALYSIS	
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
Total	140			

Linea del Cielo

1600' W/o El Camino Real to 180' E/o El Fuego
(2.36 miles)



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 3-B

SUPERVISORIAL DISTRICT: 3

SUBJECT: Radar Certification

LOCATION: Linea del Cielo from 1,600' west of El Camino Real to 180' east of El Fuego (a distance of 2.36 miles)
RANCHO SAN DIEGUITO (Thos. Bros. 1167-J6)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Linea del Cielo from 1,600' west of El Camino Real to 180' east of El Fuego is currently posted with a 35 MPH speed limit. A preliminary review of prevailing speeds and roadway conditions could support radar certification a 35 MPH speed limit.

Existing Traffic Devices

Linea del Cielo is a striped 2-lane undivided highway that is 24 to 37 feet wide. The road is striped with a no passing centerline and white edgeline. Linea del Cielo is currently classified as a Light Collector Road on the County General Plan Mobility Element Network. The road is posted with a 35 MPH radar enforced speed limit.

Average Daily Traffic Volumes

	<u>04/23</u>	<u>04/16</u>
Linea del Cielo:		
140' W/o El Camino Real	7,089	
160' W/o El Fuego	3,702	
At Calzada del Bosque		4,980

<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Lineo del Cielo:				
300' S/o Puerta del Sol	(2023)	35.9 MPH	27-36	73.0%
900' W/o El Cielito	(2023)	38.6 MPH	30-39	84.0%
	(2016)	41.0 MPH	32-41	77.0%
130' E/o Avenida Maravillas	(2023)	38.2 MPH	30-39	87.0%
	(2016)	41.0 MPH	32-41	75.0%

Collision Data

There have been 19 reported collisions, 8 of which included an injury, along this segment of roadway in a 3-year period (2020-04-01 to 2023-03-31). These collisions result in a segment accident rate of 1.37 collisions per million vehicle miles. The statewide average is 1.6 collisions per million vehicle miles for similar suburban, conventional 2 lanes or less, roads with speeds less than 45 MPH.

VOLUME

Linea Del Cielo 140' W/O El Camino Real

Day: Wednesday
Date: 4/12/2023City: Rancho Santa Fe
Project #: CA23_040063_015

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						3,780	3,309						7,089
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
0:00			2	2	4		12:00			60	49	109							
0:15			0	2	2		12:15			70	57	127							
0:30			4	5	9		12:30			67	54	121							
0:45			2	8	10	14	12:45			71	268	47	207	118	475				
1:00			0	2	2		13:00			56	59	115							
1:15			1	0	1		13:15			70	55	125							
1:30			0	0	0		13:30			52	70	122							
1:45			1	2	3	5	13:45			77	255	64	248	141	503				
2:00			0	0	0		14:00			66	66	132							
2:15			1	2	3		14:15			71	69	140							
2:30			0	0	0		14:30			96	55	151							
2:45			1	2	3	4	14:45			58	291	70	260	128	551				
3:00			0	0	0		15:00			78	92	170							
3:15			0	1	1		15:15			102	55	157							
3:30			0	1	1		15:30			78	67	145							
3:45			1	1	2	3	15:45			77	335	59	273	136	608				
4:00			2	1	3		16:00			98	66	164							
4:15			2	2	4		16:15			81	71	152							
4:30			1	2	3		16:30			71	62	133							
4:45			6	11	17	7	16:45			77	327	80	279	157	606				
5:00			9	2	11		17:00			76	60	136							
5:15			4	5	9		17:15			73	71	144							
5:30			14	15	29		17:30			64	82	146							
5:45			13	40	53	36	17:45			63	276	63	276	126	552				
6:00			11	15	26		18:00			48	61	109							
6:15			30	14	44		18:15			42	42	84							
6:30			36	34	70		18:30			38	36	74							
6:45			39	116	155	108	18:45			30	158	42	181	72	339				
7:00			39	45	84		19:00			27	41	68							
7:15			65	64	129		19:15			20	27	47							
7:30			60	58	118		19:30			25	26	51							
7:45			85	249	334	224	19:45			18	90	44	210	44	210				
8:00			83	62	145		20:00			11	23	34							
8:15			79	72	151		20:15			18	21	39							
8:30			79	54	133		20:30			13	18	31							
8:45			95	336	431	233	20:45			17	59	46	150	46	150				
9:00			69	56	125		21:00			13	17	30							
9:15			74	47	121		21:15			9	14	23							
9:30			81	52	133		21:30			6	16	22							
9:45			89	313	402	204	21:45			5	33	15	90	15	90				
10:00			63	55	118		22:00			5	11	16							
10:15			68	57	125		22:15			7	8	15							
10:30			76	52	128		22:30			7	9	16							
10:45			75	282	357	215	22:45			2	21	15	43	17	64				
11:00			78	45	123		23:00			2	4	6							
11:15			75	60	135		23:15			2	7	9							
11:30			67	52	119		23:30			2	5	7							
11:45			75	295	370	207	23:45			6	12	9	31	9	31				
TOTALS			1655	1255	2910		TOTALS			2125	2054	4179							
SPLIT %			56.9%	43.1%	41.0%		SPLIT %			50.8%	49.2%	59.0%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						3,780	3,309						7,089
AM Peak Hour			8:00	7:30	7:45		PM Peak Hour			15:15	16:45	15:00							
AM Pk Volume			336	249	571		PM Pk Volume			355	293	608							
Pk Hr Factor			0.884	0.865	0.945		Pk Hr Factor			0.870	0.893	0.894							
7 - 9 Volume	0	0	585	457	1042		4 - 6 Volume	0	0	603	555	1158							
7 - 9 Peak Hour			8:00	7:30	7:45		4 - 6 Peak Hour			16:00	16:45	16:00							
7 - 9 Pk Volume	0	0	336	249	571		4 - 6 Pk Volume	0	0	327	293	606							
Pk Hr Factor	0.000	0.000	0.884	0.865	0.945		Pk Hr Factor	0.000	0.000	0.834	0.893	0.924							

VOLUME

Linea Del Cielo 160' W/O El Fuego

Day: Tuesday
Date: 4/11/2023City: Rancho Santa Fe
Project #: CA23_040063_016

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,883	1,819						3,702
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL							TOTAL
00:00			0	2	2		12:00			29	36	65							
00:15			0	2	2		12:15			34	33	67							
00:30			0	1	1		12:30			23	33	56							
00:45			0	0	0	5	12:45			34	120	26	128	60	248				
01:00			0	0	0		13:00			36	38	74							
01:15			0	0	0		13:15			29	34	63							
01:30			0	0	0		13:30			32	31	63							
01:45			0	1	1	1	13:45			33	130	29	132	62	262				
02:00			0	0	0		14:00			36	29	65							
02:15			0	0	0		14:15			52	35	87							
02:30			0	0	0		14:30			51	45	96							
02:45			0	1	1	1	14:45			57	196	35	144	92	340				
03:00			0	0	0		15:00			64	52	116							
03:15			1	0	1		15:15			56	49	105							
03:30			0	0	0		15:30			52	36	88							
03:45			0	1	0	0	15:45			56	228	26	163	82	391				
04:00			0	0	0		16:00			45	31	76							
04:15			1	0	1		16:15			50	30	80							
04:30			1	1	2		16:30			46	16	62							
04:45			1	3	2	3	16:45			35	176	26	103	61	279				
05:00			1	2	3		17:00			37	35	72							
05:15			1	2	3		17:15			33	16	49							
05:30			5	6	11		17:30			29	23	52							
05:45			2	9	5	15	17:45			28	127	26	100	54	227				
06:00			3	7	10		18:00			27	10	37							
06:15			6	15	21		18:15			17	14	31							
06:30			5	31	36		18:30			15	16	31							
06:45			21	35	33	86	18:45			18	77	13	53	31	130				
07:00			18	30	48		19:00			13	11	24							
07:15			27	34	61		19:15			13	10	23							
07:30			35	40	75		19:30			11	5	16							
07:45			61	141	52	156	19:45			15	52	4	30	19	82				
08:00			24	59	83		20:00			9	7	16							
08:15			34	40	74		20:15			7	4	11							
08:30			23	49	72		20:30			12	8	20							
08:45			33	114	28	176	20:45			4	32	5	24	9	56				
09:00			20	32	52		21:00			9	6	15							
09:15			31	44	75		21:15			5	8	13							
09:30			34	32	66		21:30			8	4	12							
09:45			28	113	40	148	21:45			7	29	10	28	17	57				
10:00			32	22	54		22:00			5	2	7							
10:15			42	43	85		22:15			3	2	5							
10:30			33	48	81		22:30			1	1	2							
10:45			49	156	33	146	22:45			0	9	3	8	3	17				
11:00			30	45	75		23:00			1	0	1							
11:15			36	37	73		23:15			0	5	5							
11:30			40	40	80		23:30			3	1	4							
11:45			25	131	41	163	23:45			0	4	0	6	0	10				
TOTALS			703	900	1603		TOTALS			1180	919	2099							
SPLIT %			43.9%	56.1%	43.3%		SPLIT %			56.2%	43.8%	56.7%							

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						1,883	1,819						3,702
AM Peak Hour			10:00	07:45	07:30		PM Peak Hour			14:45	14:30	14:30							
AM Pk Volume			156	200	345		PM Pk Volume			229	181	409							
Pk Hr Factor			0.796	0.847	0.763		Pk Hr Factor			0.895	0.870	0.881							
7 - 9 Volume	0	0	255	332	587		4 - 6 Volume	0	0	303	203	506							
7 - 9 Peak Hour			07:30	07:45	07:30		4 - 6 Peak Hour			16:00	16:15	16:00							
7 - 9 Pk Volume	0	0	154	200	345		4 - 6 Pk Volume	0	0	176	107	279							
Pk Hr Factor	0.000	0.000	0.631	0.847	0.763		Pk Hr Factor	0.000	0.000	0.880	0.764	0.872							

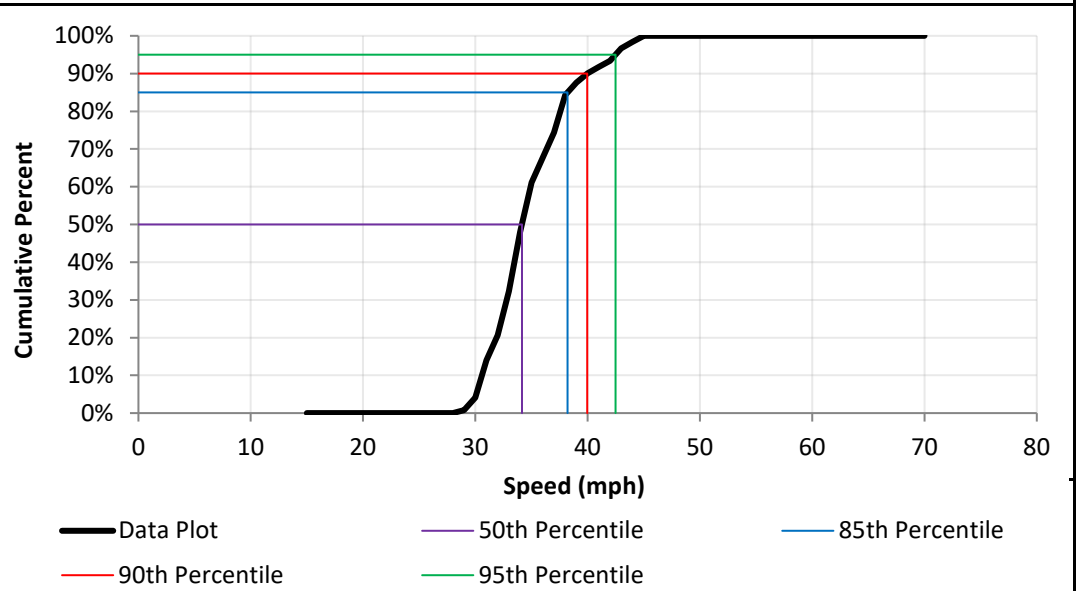
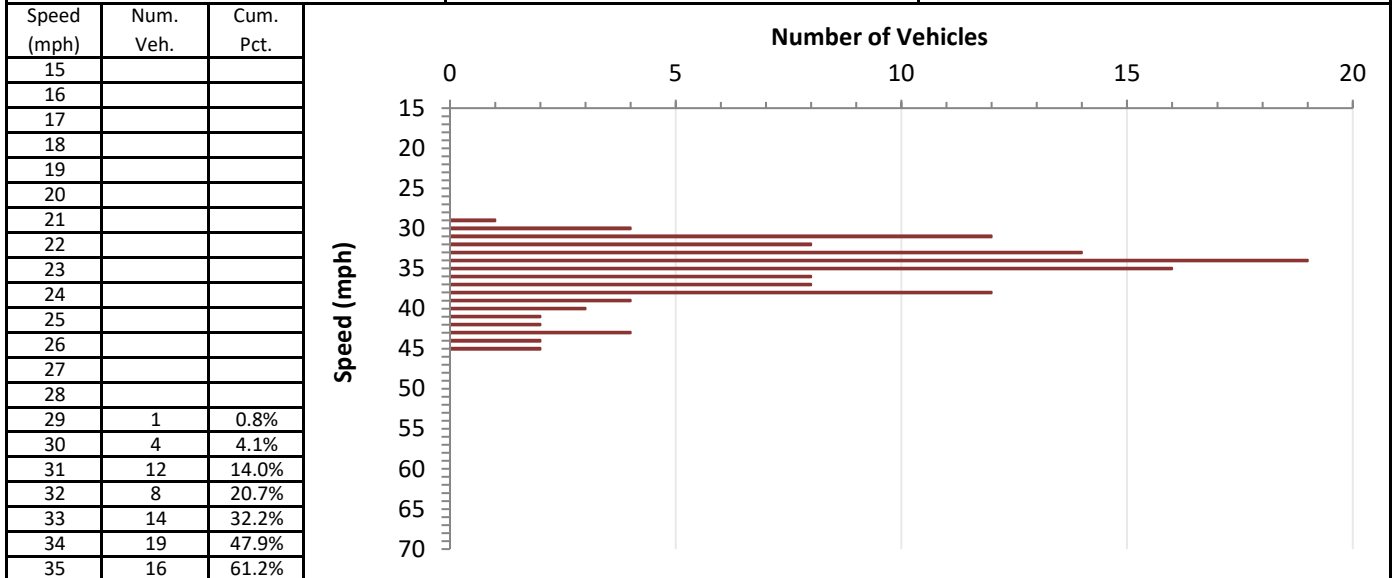


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Linea Del Cielo	From:	Mimosa Pl	To:	Avenida Maravillas
Position:	Linea Del Cielo 130 FT E/o Avenida Maravillas			Direction:	EB/WB

Date:	8/14/2023	Weather:	SUNNY-CLEAR	Project Number:	N/A
Time Start:	11:40 AM	Road Condition:	Dry	Observer:	County
Time End:	12:40 PM	Posted Speed:	35 MPH	Calibration Test:	Y



DATA ANALYSIS

Average Speed	35.3	Range	29 - 45
50th Percentile	34.2	10 mph Pace	30 - 39
85th Percentile	38.2	Number in Pace	105
90th Percentile	40.0	Percent in Pace	87%
95th Percentile	42.5		



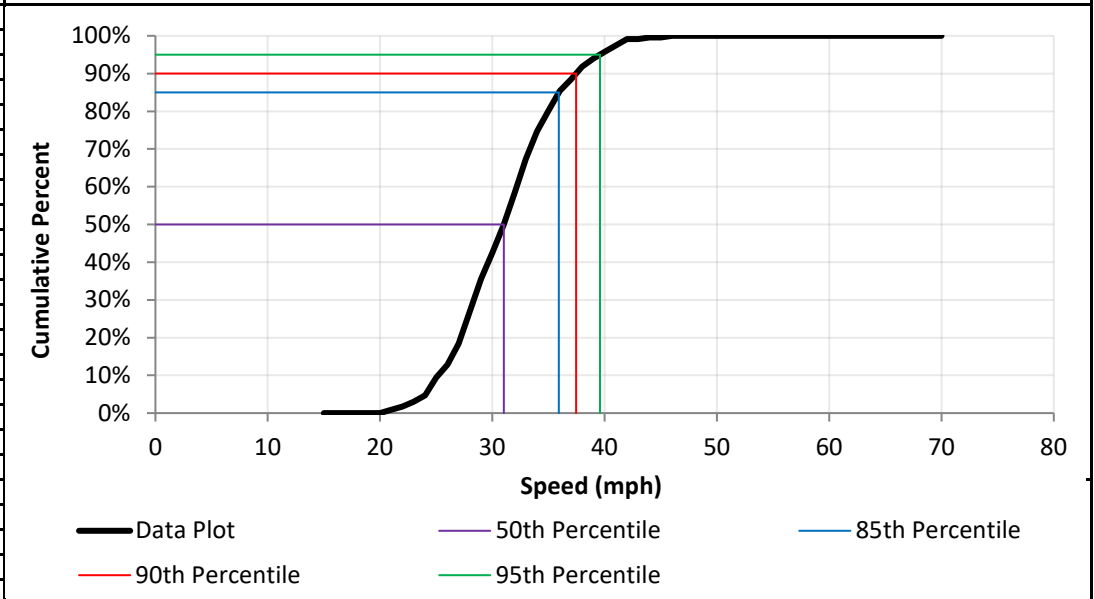
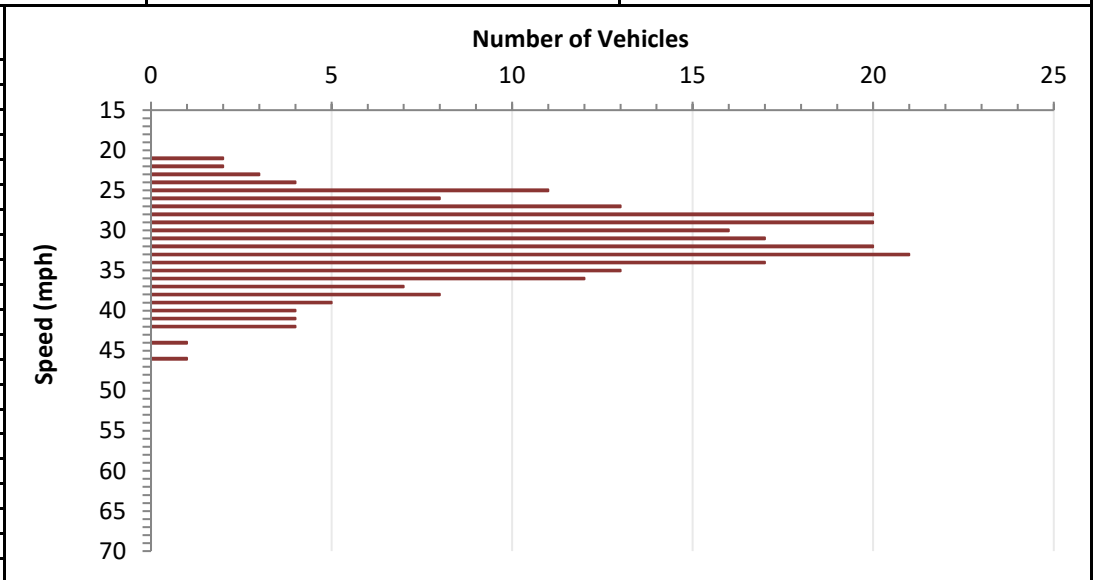
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Linea del Cielo	From:	1,600' W/o El Camino Real	To:	180' E/o El Fuego
Position:	300' S/o Puerta del Sol	Direction:	NB /SB		

Date:	4/13/2023	Weather:	Clear	Project Number:	23-040064-011
Time Start:	9:13 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:13 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21	2	0.9%
22	2	1.7%
23	3	3.0%
24	4	4.7%
25	11	9.4%
26	8	12.9%
27	13	18.5%
28	20	27.0%
29	20	35.6%
30	16	42.5%
31	17	49.8%
32	20	58.4%
33	21	67.4%
34	17	74.7%
35	13	80.3%
36	12	85.4%
37	7	88.4%
38	8	91.8%
39	5	94.0%
40	4	95.7%
41	4	97.4%
42	4	99.1%
43		
44	1	99.6%
45		
46	1	100.0%
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	233	



DATA ANALYSIS

Average Speed	31.6	Range	21 - 46
50th Percentile	31.0	10 mph Pace	27 - 36
85th Percentile	35.9	Number in Pace	169
90th Percentile	37.5	Percent in Pace	73%
95th Percentile	39.6		



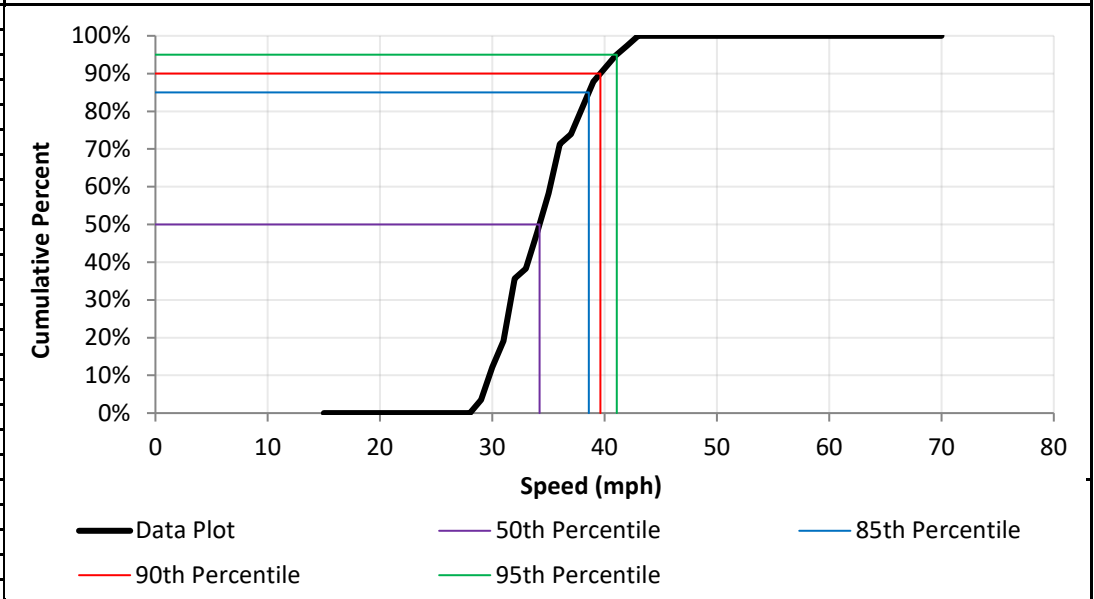
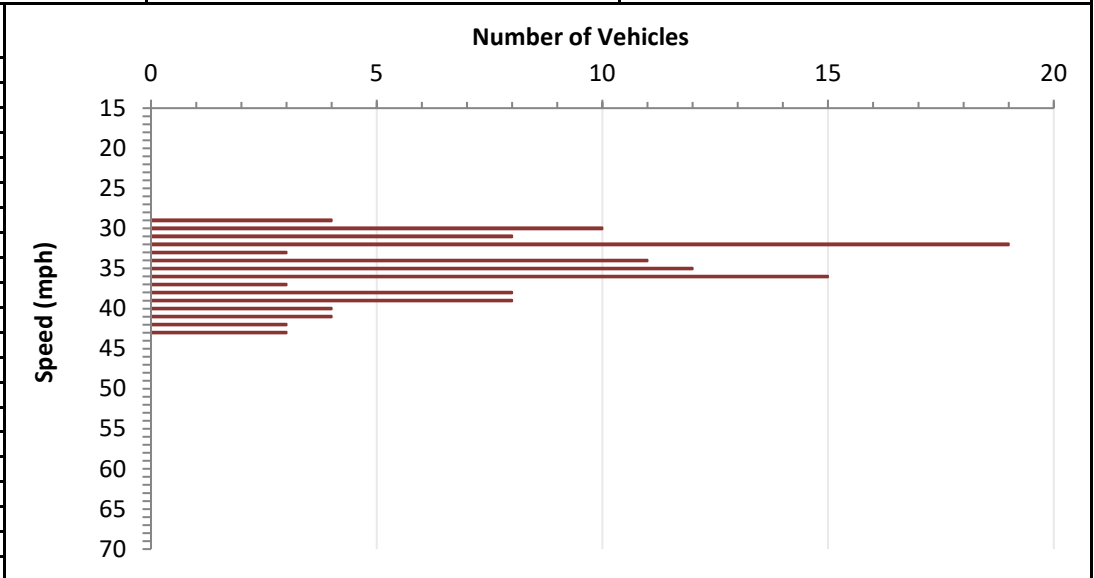
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Linea Del Cielo	From:	El Cielito	To:	RAMBLA DE LAS FLORES
Position:	Linea Del Cielo 900 FT W/o El Cielito	Direction:	EB/WB		

Date:	8/14/2023	Weather:	CLOUDY-DRY	Project Number:	N/A
Time Start:	9:58 AM	Road Condition:	Dry	Observer:	County
Time End:	10:58 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		
29	4	3.5%
30	10	12.2%
31	8	19.1%
32	19	35.7%
33	3	38.3%
34	11	47.8%
35	12	58.3%
36	15	71.3%
37	3	73.9%
38	8	80.9%
39	8	87.8%
40	4	91.3%
41	4	94.8%
42	3	97.4%
43	3	100.0%
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	115	



DATA ANALYSIS

Average Speed	34.9	Range	29 - 43
50th Percentile	34.2	10 mph Pace	30 - 39
85th Percentile	38.6	Number in Pace	97
90th Percentile	39.6	Percent in Pace	84%
95th Percentile	41.1		

Whitestone Road

130' N/o Lake Ridge Court to cul-de-sac (a distance of 100')



130' N/o Lake
Ridge Ct

Whitestone Rd

Lake Ridge Ct

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023 **Item 4-A**

SUPERVISORIAL DISTRICT: 4

SUBJECT: Temporary Road Closure

LOCATION: Whitestone Road, from a point 130 feet north of Lake Ridge Court northerly to the end of County maintenance (a distance of 100 ft), SPRING VALLEY (Thos. Bros. 1291-E2)

INITIATED BY: Traffic Engineering

REQUEST: Extend the Temporary Road Closure for an additional 18 months

PROBLEM AS STATED BY REQUESTER:

In 2018, this segment of Whitestone Road was identified by the Sheriff's Department and the California Highway Patrol (CHP) as a location where serious and continual criminal activity and illegal dumping was occurring on a frequent basis. In 2019, the Board of Supervisors approved a temporary 18-month road closure and subsequent extensions as a result of serious and continual criminal activity.

The resolution enacting the temporary road closure dictates this closure may be extended for a total of eight additional consecutive periods of not more than 18 months each. Also, prior to each extension, a public hearing is held and the same findings be made.

The Board of Supervisors, Law Enforcement Officials, Spring Valley Community Planning Group and affected property owners supported Whitestone Road's temporary road closure. This item would be the third proposed extension for an additional 18 months of the closure established in 2018.

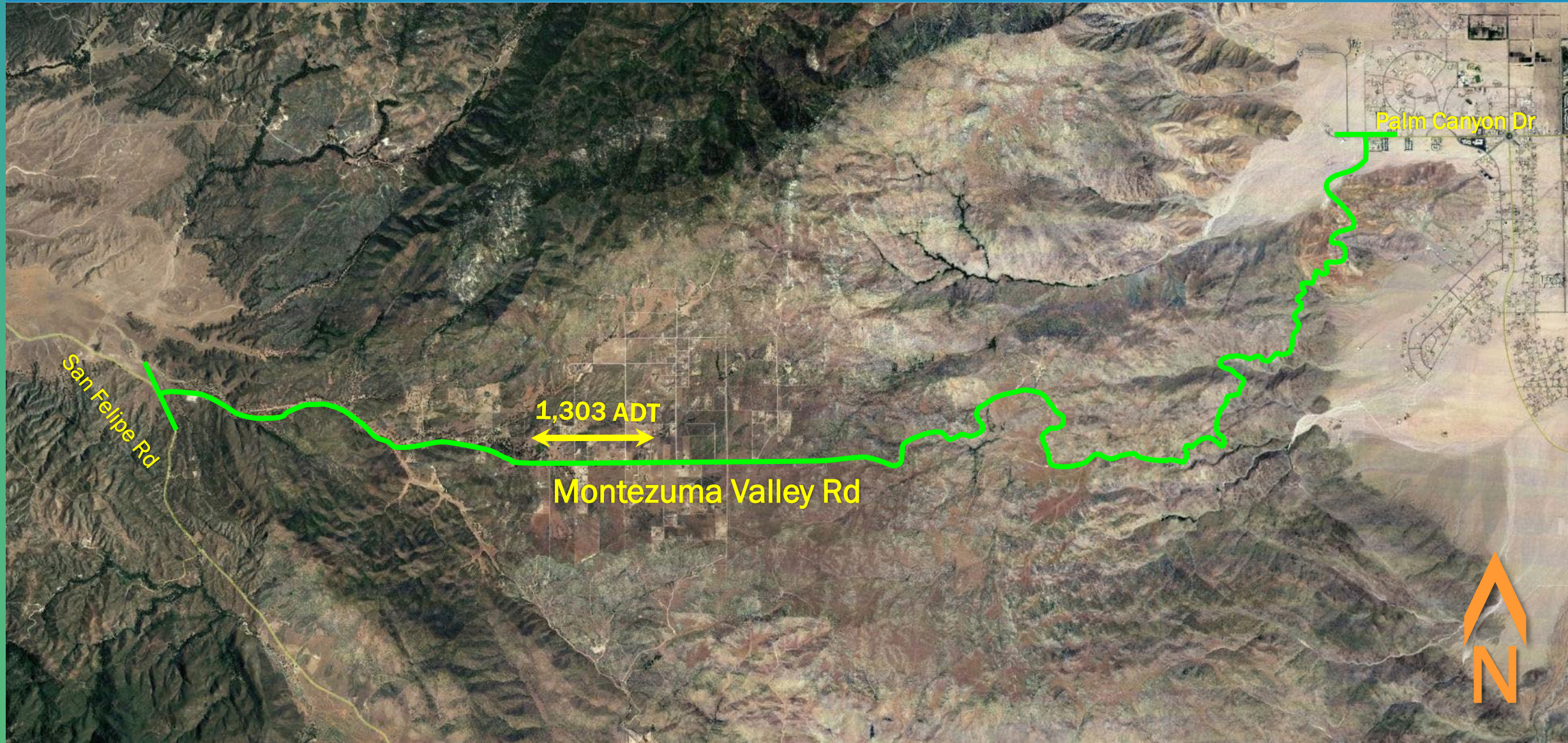
DATA:

Whitestone Road is a striped two-lane roadway that measures 40-64 feet in width with a two way left turn median and parking on both sides of the road. Whitestone Road from 130 feet north of Lake Ridge Court northerly to the end of County maintenance, is a portion being proposed to be closed. The segment is a 40-foot wide residential roadway with parking along both sides. Whitestone Road is unclassified on the County General Plan Mobility Element Network. The road does not have a posted speed limit.

Montezuma Valley Road

San Felipe Road to Palm Canyon Drive

17.41 miles



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: September 8, 2023

Item 5-A

SUPERVISORIAL DISTRICT: 5

SUBJECT: Truck Restriction

LOCATION: Montezuma Valley Road from San Felipe Road to Palm Canyon Drive (a distance of 17.41 miles)
RANCHITA (Thos. Bros. MAP D)

INITIATED BY: DPW Traffic Engineering

REQUEST: Establish Truck Length Restriction

PROBLEM AS STATED BY REQUESTER:

An engineering study to evaluate curves along Montezuma Valley Road for commercial truck traffic was commissioned by the County of San Diego and completed by Linscott, Law, and Greenspan, Engineers (LLG). The purpose of the study was to determine what size vehicle can maneuver the horizontal curves on Montezuma Valley Road. The LLG assessment concluded that trucks with a total length over 60 feet cannot maneuver the horizontal curves on Montezuma Valley Road without crossing over the road centerline. Therefore, a prohibition of trucks longer than 60 feet on Montezuma Valley Road between San Felipe Road and Palm Canyon Drive can be considered.

Recommended unobstructed alternative route has been identified as: San Felipe Road, State Route 78, and Borrego Springs Road. Staff has received communications from both CHP and Caltrans providing support for the restriction and no objection to the alternative route.

Existing Traffic Devices

Montezuma Valley Road is a striped 2-lane undivided highway that is 28 to 48 feet wide. The roadway is striped with a no passing centerline and white edgeline. There are intermittent turn-out areas and passing lanes. Montezuma Valley Road is also striped with bike lane from 1.41 miles west of Palm Canyon Drive to Palm Canyon Drive. The road is posted with turn signage, curve warning signs, rockslide advisory, wind advisory signs, grade advisory signs, truck-camper lower gear advisory signs, and 25' truck length advisory signs. Montezuma Valley Road has several speed advised turns and curves with advisory speeds ranging from 40 to 20 MPH. The through highway is classified as a Light Collector on the County General Plan Mobility Element Network. The road is posted with a 55 MPH state maximum speed limit.

Average Daily Traffic Volumes

Montezuma Valley Road:

12/22

1,303

7-Day Vehicle Classification Count

	Vehicle Classification*													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	
Average Vehicle Count	31	615	319	24	107	3	0	2	11	0	0	0	0	1,112
Percent of Average	2.7%	55.3 %	28.7 %	2.1%	9.6%	0.2%	0%	0.2%	1.0%	0%	0%	0%	0%	100%

* Vehicles classes 1 through 8 include motorcycles and 4-axle or less passenger and commercial vehicles and combinations; classes 9 through 13 include vehicles and combinations with 5 or more axles

Collision Data

There have been 41 collisions, 23 of which involved in injury, 2 of which involved a fatality, along this roadway in a 3-year period (04-01-20 to 03-31-23). 2 of these collisions involved a large truck (5% of total collisions). Both collisions involved injury (9% of total collisions involving injury).



County of San Diego

WILLIAM P. MORGAN, P.E.
INTERIM DIRECTOR

DEPARTMENT OF PUBLIC WORKS
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SAN DIEGO, CA 92123-1237
(858) 694-2212
www.sdcountry.ca.gov/dpw/

COUNTY TRAFFIC ENGINEER RECOMMENDATION

Date: July 7, 2023

Item Title: Length Restriction

Location: Montezuma Valley Road

CTE Staff Recommendation: Establish Truck Length Restriction

MLK

Conditions:

- *California Vehicle Code* (CVC) Section 21101 "Regulation of Highways" permits local authorities to adopt ordinance or resolution to prohibit certain vehicles, such as trucks on highways under their jurisdiction.
- An engineering study to evaluate curves along Montezuma Valley Road for commercial truck traffic was commissioned by the County of San Diego and completed by Linscott, Law, and Greenspan, Engineers (LLG). The purpose of the study was to determine what size vehicle can maneuver the horizontal curves on Montezuma Valley Road.
- The LLG assessment concluded that trucks with a total length over 60 feet cannot maneuver the horizontal curves on Montezuma Valley Road without crossing over the road centerline.
- Therefore, it is staff's recommendation to prohibit trucks longer than 60 feet on Montezuma Valley Road between San Felipe Road and Palm Canyon Drive.

March 16, 2023

Mr. Richard Chin
County of San Diego
5510 Overland Avenue, Suite 410
San Diego, CA 92123

LLG Reference: 3-22-3576

Subject: **Montezuma Valley Road Truck Assessment**
County of San Diego, CA

Dear Mr. Chin:

Linscott, Law & Greenspan, Engineers (LLG) has been commissioned by the County of San Diego to conduct a transportation assessment for Montezuma Valley Road (also known as S22). The purpose of the transportation assessment is to determine if trucks can maneuver the horizontal curves of the roadway, as it is currently existing.

Figure 1 depicts the Vicinity Map. **Figure 2** depicts the Study Area Map.

This assessment includes the following components:

- Background Information
- Existing Conditions
- Transportation Assessment
- Conclusion and Recommendations

Figures and attachments are provided at the end of this letter report.

BACKGROUND INFORMATION

The Borrego Springs community has voiced safety concerns with larger trucks using Montezuma Valley Road to go through the community and encroaching into the opposing travel lane along Montezuma Valley Road.

California Vehicle Code (CVC) Section 21101 “Regulation of Highways” permits local authorities to adopt ordinance or resolution to prohibit certain vehicles, such as trucks on highways under their jurisdiction. See **Attachment A** for the section excerpt.

Pursuant to the community safety concerns, the County of San Diego has commissioned this assessment to determine if trucks are encroaching into the opposing lane, when

Engineers & Planners

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Transportation
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Philip M. Linscott, PE (1924-2000)
William A. Law, PE (1921-2018)
Jack M. Greenspan, PE (Ret.)
Paul W. Wilkinson, PE (Ret.)
John P. Keating, PE (Ret.)
David S. Shender, PE
John A. Boarman, PE
Clare M. Look-Jaeger, PE (Ret.)
Richard E. Barretto, PE
Keil D. Maberry, PE
Kalyan C. Yellapu, PE
Dave Roseman, PE
Shankar Ramakrishnan, PE
An LG2WB Company Founded 1966

travel eastbound toward Borrego Springs community, which would warrant restricting and/or imposing speed limits for trucks along Montezuma Valley Road.

EXISTING CONDITIONS

Montezuma Valley Road is an east-west roadway located in the rural Desert Community under the jurisdiction of the County of San Diego. Montezuma Valley Road connects Borrego Springs to the Ranchita and San Felipe area.

Montezuma Valley Road is a 17.5-mile roadway classified as a Light Collector in the *County of San Diego Desert Community Mobility Element* (June 2014). Montezuma Valley Road is currently constructed as a two-lane undivided roadway with intermittent turn-out areas and passing lanes. Montezuma Valley Road is a mountainous roadway with numerous horizontal curves. The posted speed limit is 55 MPH and curve warning signs are displayed with advisory speeds ranging from 30 MPH to 35 MPH.

24-hour average daily traffic (ADT) were conducted the week of Saturday, December 3, 2022 to Friday, December 9, 2022. The highest observed ADT is 1,303 vehicles. **Attachment B** contains the counts.

Vehicular classification counts were also conducted the entire week of December 3, 2022. With respect to vehicle classification, the *Federal Highway Administration* (FHWA) has grouped vehicle types into 13 classifications ranging from motorcycles (Class 1) and passenger vehicles (Class 2) to 7+ axle trucks with multiple trailers (Class 13). **Table 1** summarizes the 7-day average vehicular classification. **Attachment B** contains the counts. **Attachment C** contains the FHWA vehicle category classification figure.

Attachment C contains the FHWA vehicle category classification figure. **Table 1** shows the FHWA vehicle class with the associated number of vehicles collected during the week of December 3, 2022.

TABLE 1
7-DAY VEHICULAR CLASSIFICATION COUNT SUMMARY

	Vehicle Classification													Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	
Average Vehicle Count	31	615	319	24	107	3	0	2	11	0	0	0	0	1,112
Percent of Average	2.7%	55.3%	28.7%	2.1%	9.6%	0.2%	0.0%	0.2%	1.0%	0.0%	0.0%	0.0%	0.0%	100%
Maximum	62	778	425	30	160	8	2	5	24	0	1	2	0	-
Minimum	9	514	277	14	57	0	0	1	2	0	0	0	0	-

As shown in **Table 1**, approximately 1.0% percent of all traffic traveling on Montezuma Valley Road are trucks classified as Class 9 or higher (5-Axle or more). This is below the typical 2% truck traffic representation for most roadways.

TRANSPORTATION ASSESSMENT

The *American Association of State Highway and Transportation Officials* (AASHTO) and the *Caltrans Highway Design Manual* (HDM) have set forth standard design vehicles for truck turning analyses. AASHTO categorizes their truck design vehicles based on their wheelbase (WB) length, while HDM categorizes their truck design vehicles based on turning radius. These design vehicles were utilized in the truck turning assessment. **Attachment D** contains excerpts from both AASHTO and HDM of the design vehicles used in the truck turning analyses.

Using the Records of Survey of Montezuma Valley Road provided by the County of San Diego, the centerline and travel way were modeled in AutoCAD software and AutoTurn software was used to conduct the truck turning analyses. The truck turning analyses was conducted on the most restrictive curve along Montezuma Valley Road (i.e., the curve with the tightest radius, which is 153 ft) starting at a minimum design speed of 10 mph set forth in HDM Section 404.3 and AASHTO 2.8.2.

The truck turning analyses were also conducted based on a speed progression. If the truck turning analysis showed that the truck can maneuver the curve without encroaching into the opposing travel lane, then the design speed was increased to determine the speed at which to restrict that truck if needed.

Table 2 summarizes which design vehicles can or cannot maneuver the most restrictive curve along Montezuma Valley Road. **Table 3** summarizes the results of the speeds at which a WB-40 can or cannot maneuver the most restrictive curve along Montezuma Valley Road.

Standard	Design Vehicle	FHWA Classification	Truck Length (feet)	Travels Within the Travel Lane?
				10 MPH
AASHTO	WB-40	8	45.5	✓
	WB-62	9	69	X
HDM	CV-50ft	9	65	X
	STAA-56ft	9	72	X

- ✓ = Truck turning analysis shows the design vehicle staying within the travel way.
- ✗ = Truck turning analysis shows the vehicle encroaching the opposing travel way.
- WB – Wheel Base
- CV – California Vehicle
- STAA – Surface Transportation Assistance Act of 1982
- 10 mph is the minimum design speed set forth in HDM Section 404.3 and AASHTO Section 2.8.2

Diagram illustrating the dimensions of a truck (Figure 1.10). The truck is shown in profile, facing right. The dimensions are as follows:

- Overall length: 33.0 ft [10.06 m]
- Trailer length: 25.5 ft [7.77 m]
- Trailer width: 4.5 ft [1.37 m]
- Truck cab width: 3.0 ft [0.91 m]
- Truck cab height: 7.5 ft [2.29 m]
- Truck wheelbase: 12.5 ft [3.81 m]
- Truck wheel offset: 2.3 ft [0.71 m]
- Truck wheel offset (from trailer end): 3.3 ft [1.01 m]*
- Truck wheel offset (from trailer end): 0.7 ft [0.20 m]
- Truck wheel offset (from trailer end): 40.0 ft [12.19 m]
- Truck wheel offset (from trailer end): 45.5 ft [13.87 m]
- Truck wheel offset (from trailer end): 3.0 ft [0.91 m]

N:\3576 - COC RSA\1. Montezuma Valley Road Truck Assessment\Text\3576. Montezuma Valley Road Analysis.docx

TABLE 3
TRUCK TURNING ANALYSIS RESULTS: TRUCK SPEED RESTRICTION FOR WB-40

Standard	Design Vehicle	FHWA Classification	Truck Length (feet)	Travels Within the Travel Lane?		
				10 MPH	15 MPH	20 MPH
AASHTO	WB-40	8	45.5	✓	✓	X

General Notes:

- ✓ = Truck turning analysis shows the design vehicle staying within the travel way.
- X = Truck turning analysis shows the vehicle encroaching the opposing travel way.
- WB – Wheel Base
- 10 mph is the minimum design speed set forth in HDM Section 404.3 and AASHTO Section 2.8.2

As shown in **Table 3**, an AASHTO WB-40 vehicle can maneuver the curve only at 15 mph or less. However, per CVC Section 22407 “Speed Laws,” a local authority cannot limit the speed of a vehicle with a weight rating of 10,000 pounds or more to lower than 20 mph. **For this reason, a speed restriction of 15 mph cannot be recommended.** See **Attachment A** for the CVC section excerpt.

The following is a list of the figures illustrating each truck turning analysis:

- AASHTO WB-40 Truck Turning – 15mph (**Figure 3**)
- AASHTO WB-40 Truck Turning – 20mph (**Figure 4**)
- AASHTO WB-62 Truck Turning – 15mph (**Figure 5**)
- HDM CV-50ft Truck Turning – 15mph (**Figure 6**)
- HDM STAA-56ft Truck Turning – 15mph (**Figure 7**)

CONCLUSION AND RECOMMENDATIONS

Based on the truck turning analyses, it is recommended that the County of San Diego implement the following action regarding truck travel on Montezuma Valley Road:

- a) Prohibit trucks longer than 60 feet on Montezuma Valley Road between San Felipe Road and Christmas Circle in the Borrego Springs Community using CA MUTCD regulatory signs R5-2 and R20D-4 (CA).

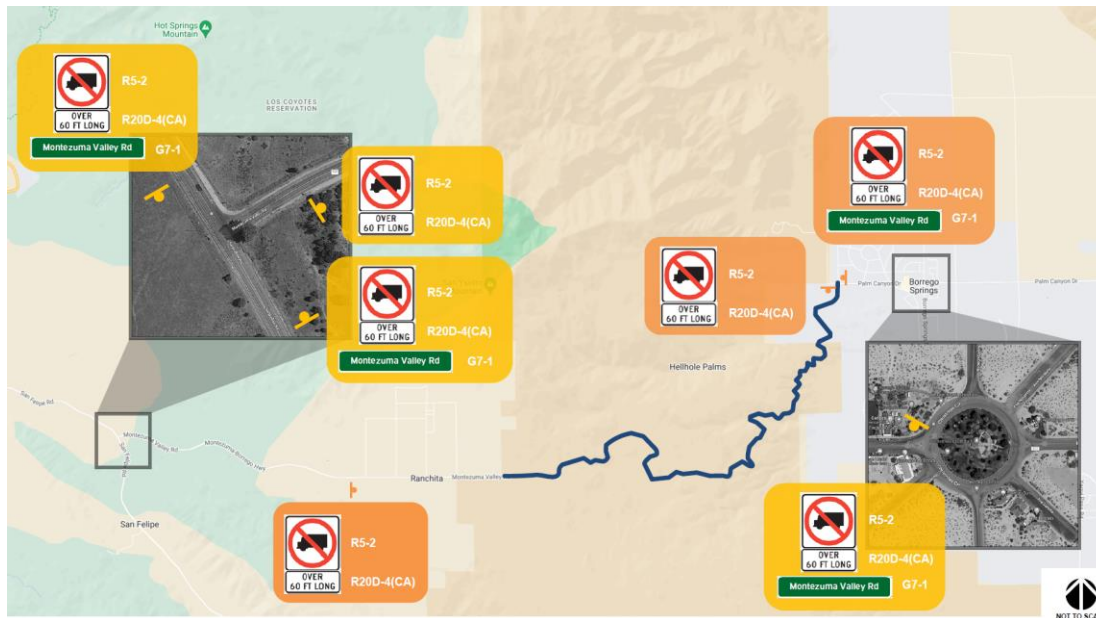


Exhibit 1, found both above and as a separate exhibit, illustrates the proposed signs and locations regarding truck restrictions on Montezuma Valley Road.

Please call if you have any questions.

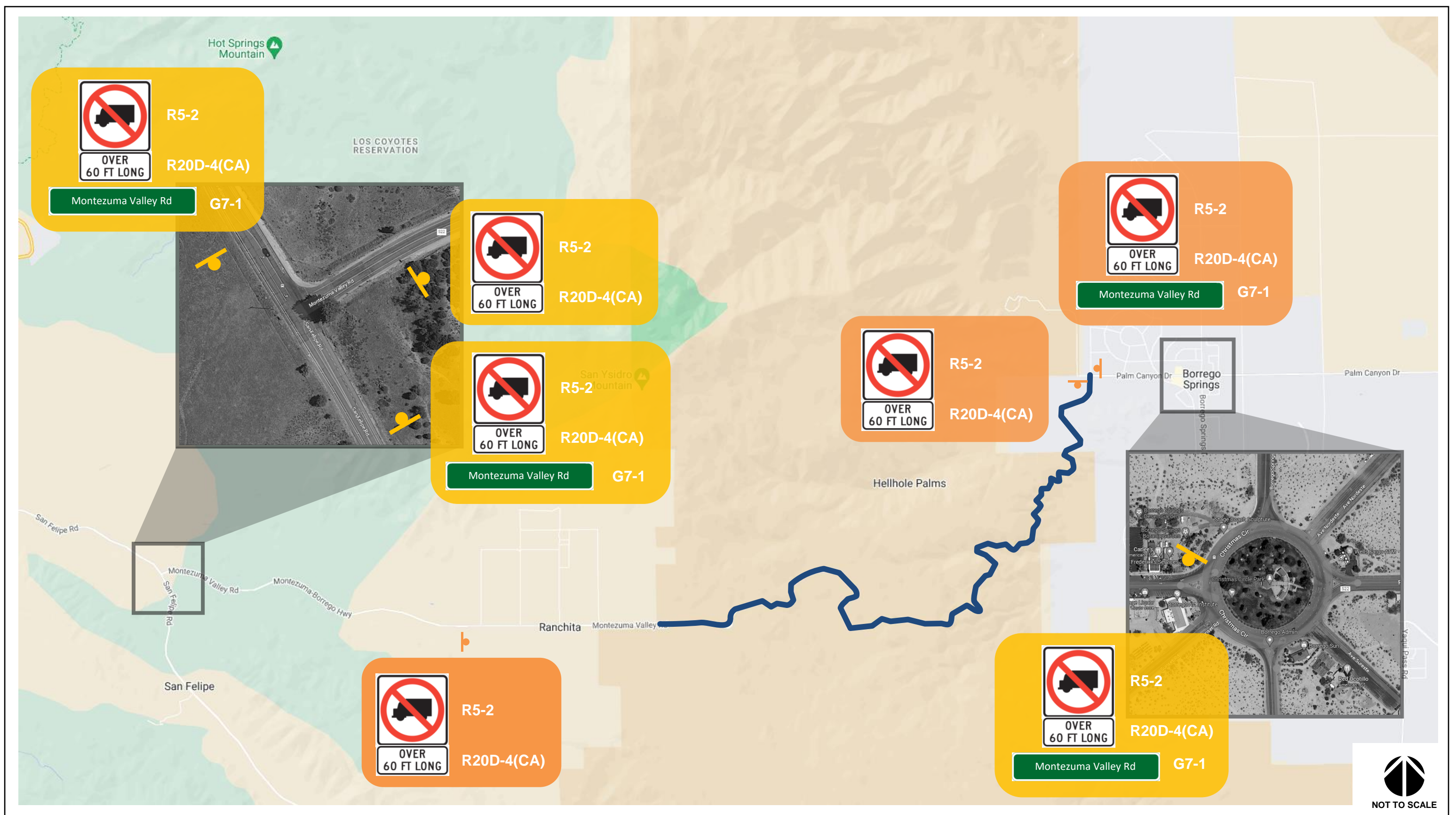
Sincerely,

Linscott, Law & Greenspan, Engineers

Erika Carino, PE, RSP
Transportation Engineer III

Jesus Espinoza, EIT
Transportation Engineer II

KC/ZO



N:\3576 - COC RSA\1. Montezuma Valley Road Truck Assessment\Figures

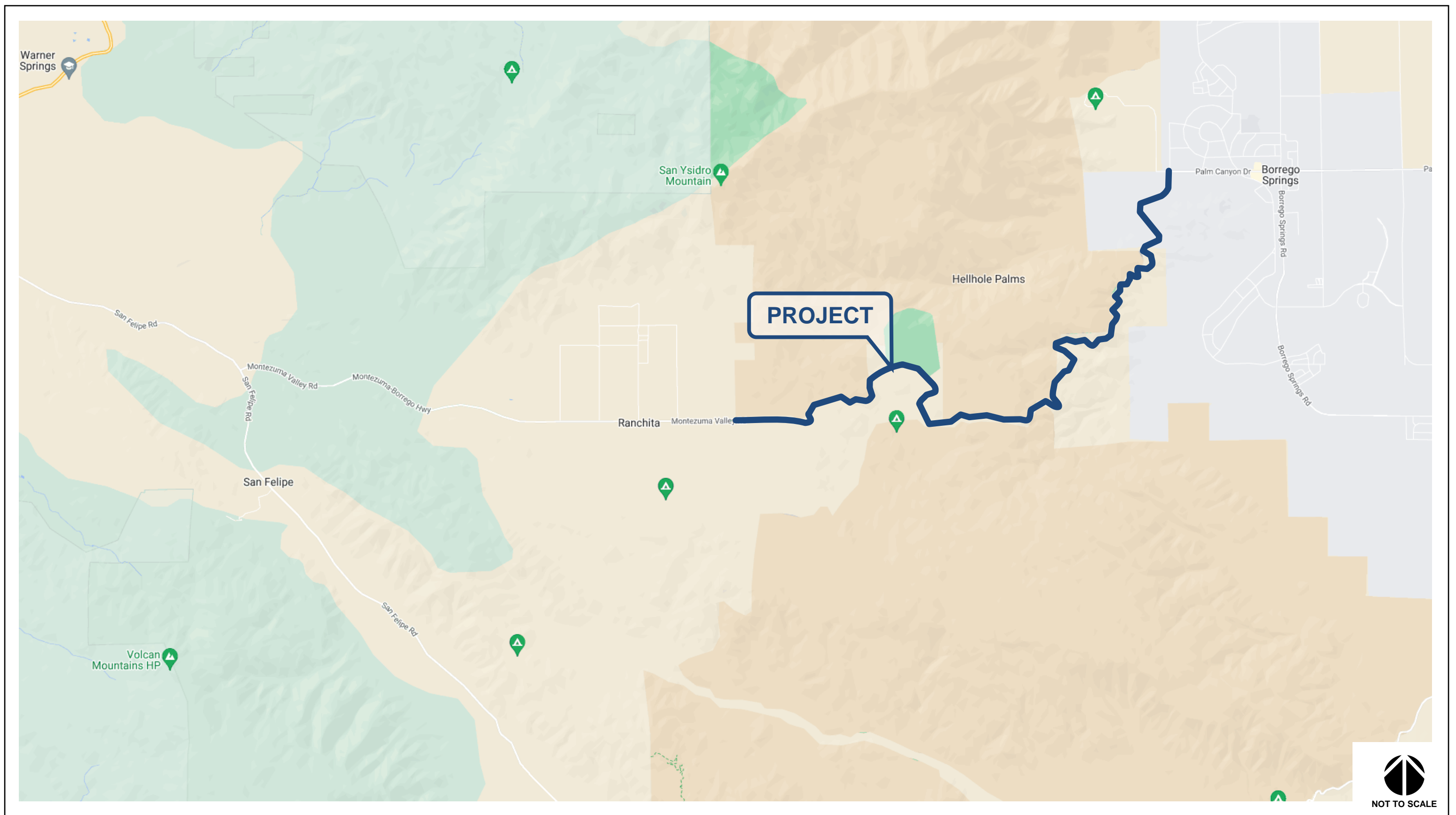
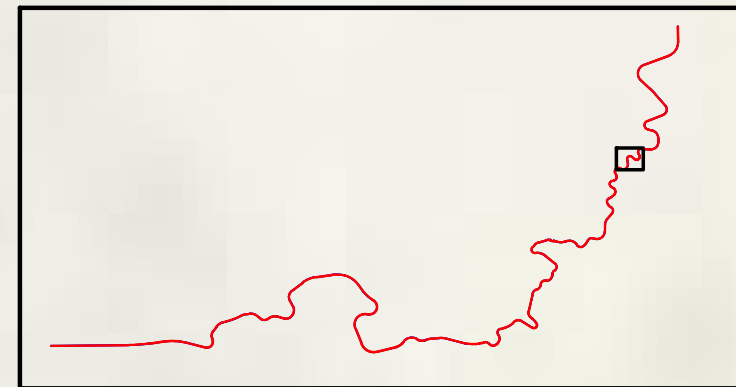
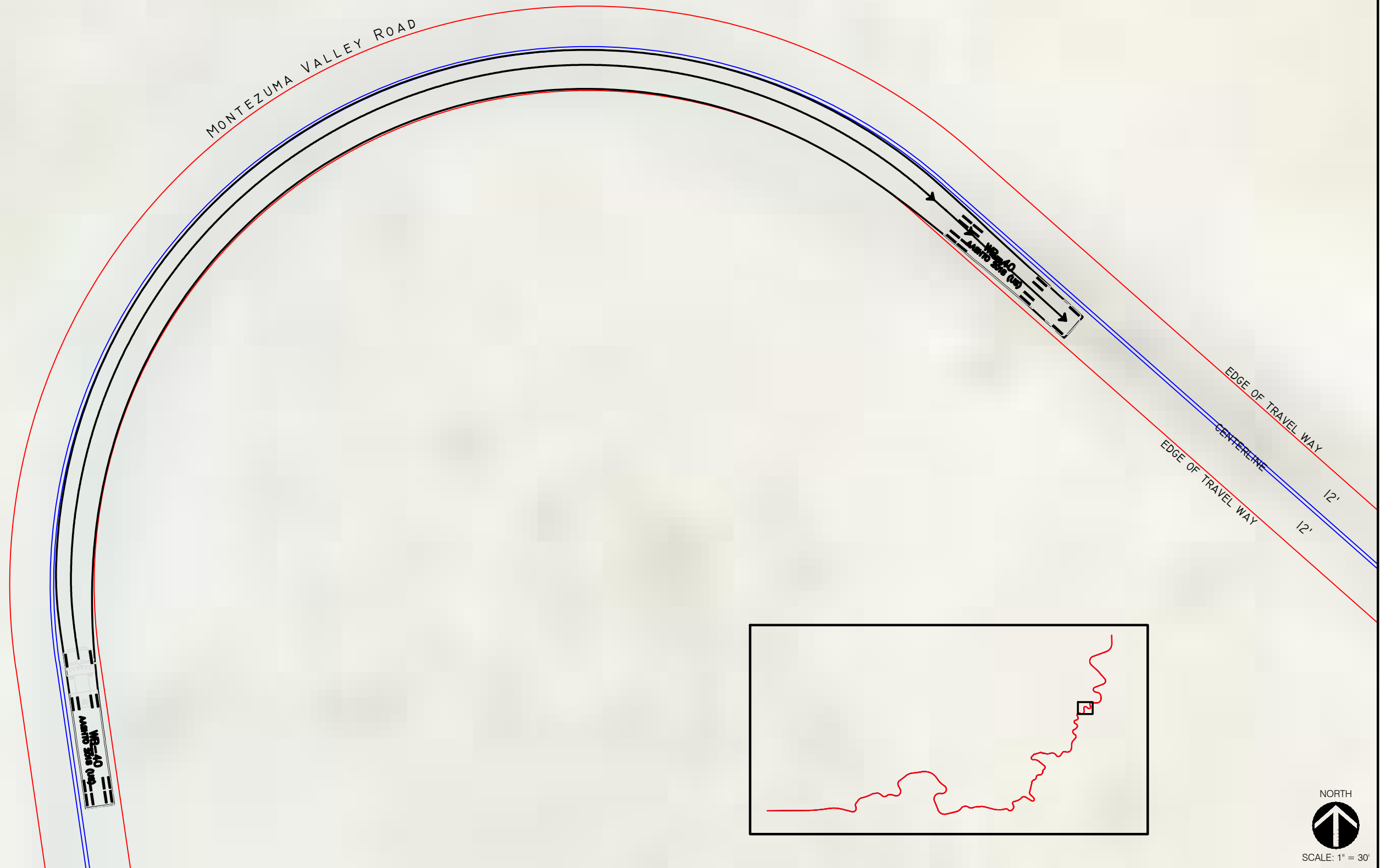
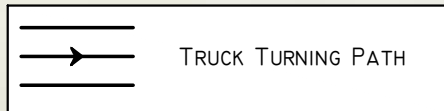
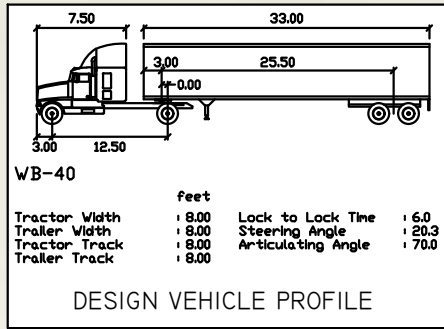


Figure 2

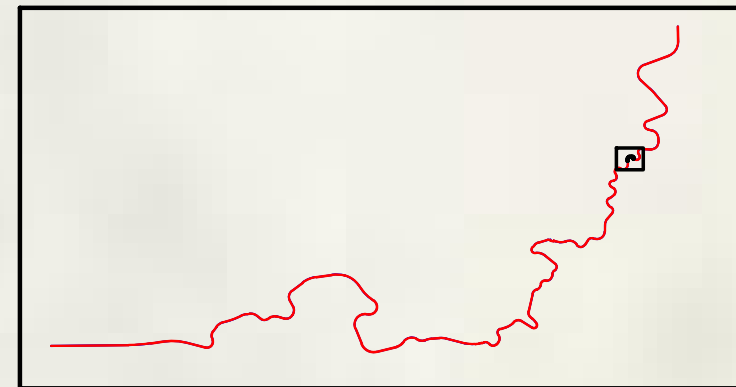
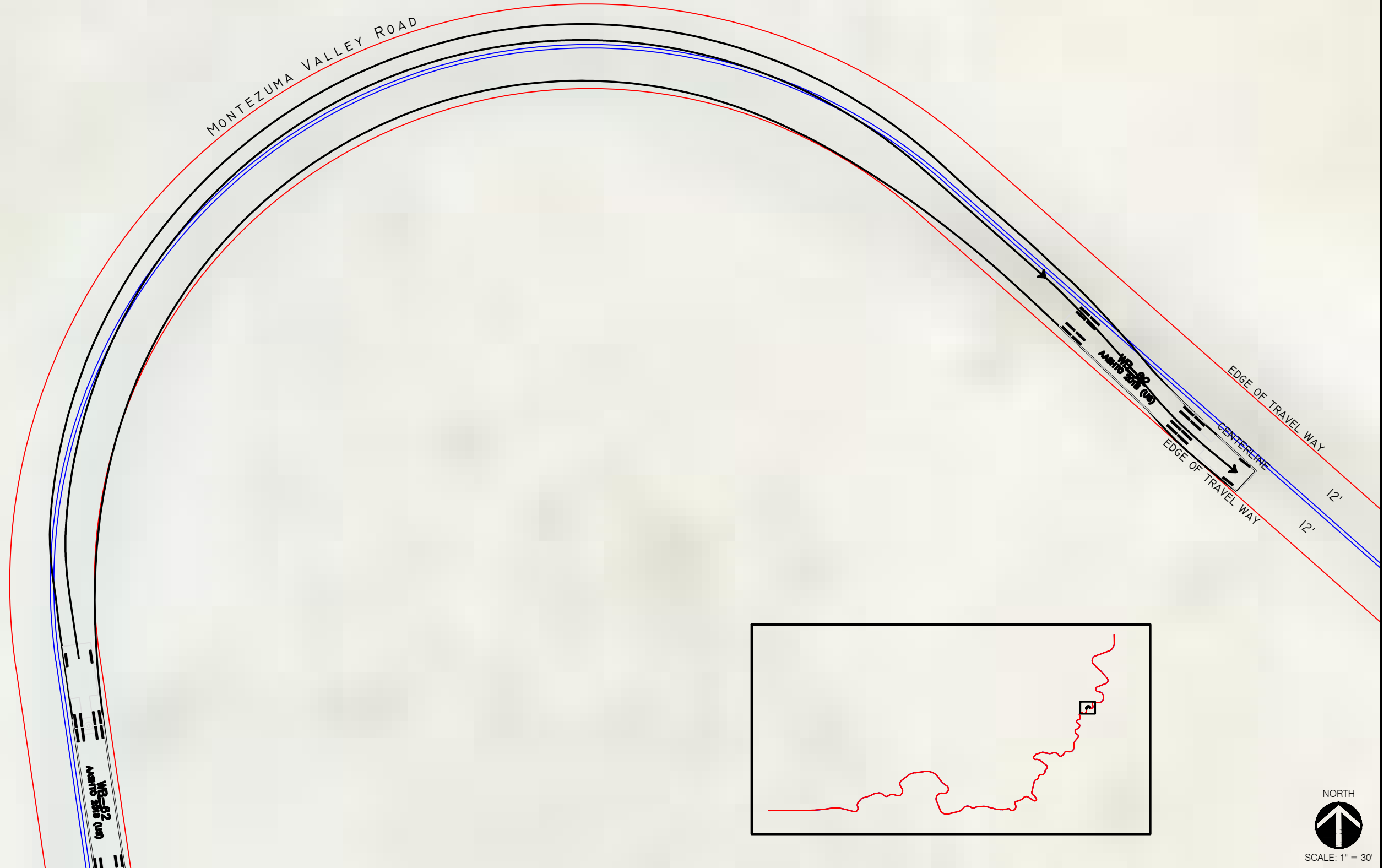
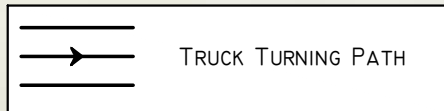
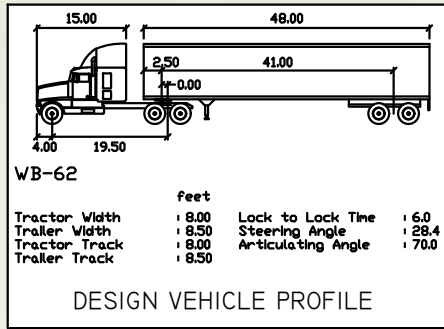
Study Area Map



SCALE: 1" = 30'

Figure 3

AASHTO WB-40 Truck Turning - 15mph



SCALE: 1" = 30'

Figure 5

AASHTO WB-62 Truck Turning - 15mph

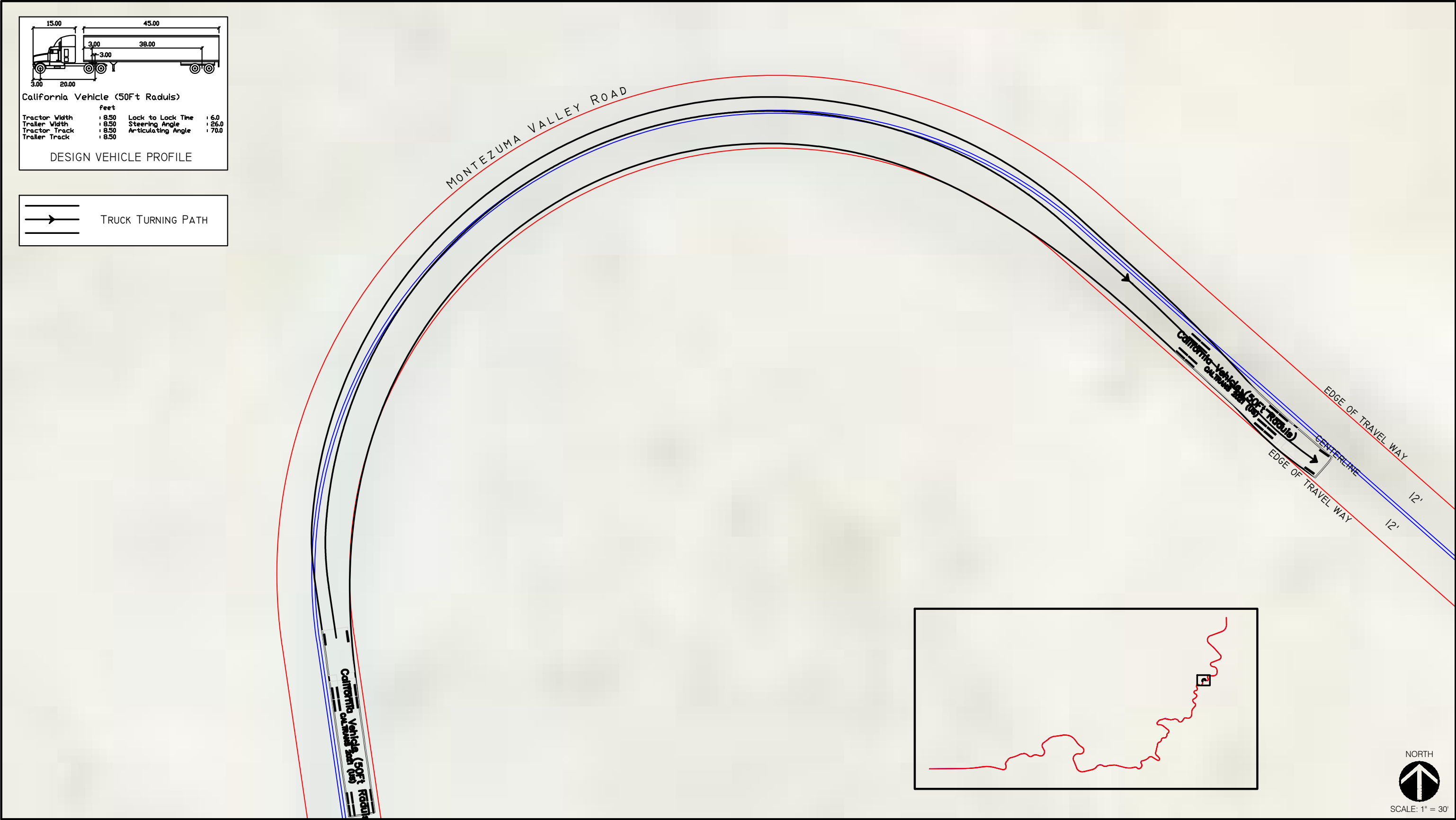
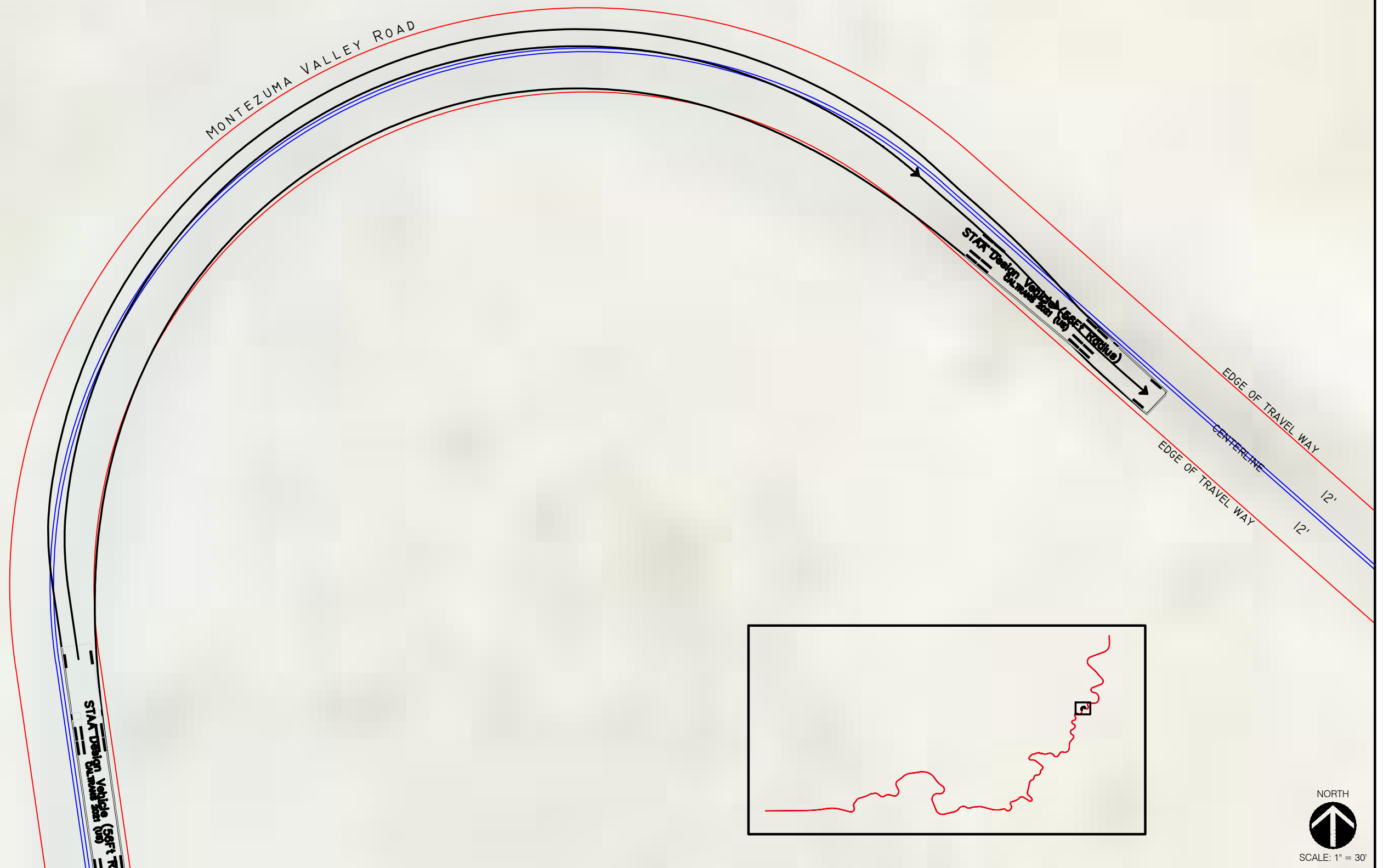
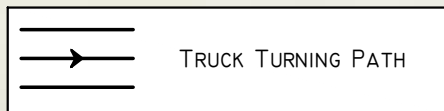
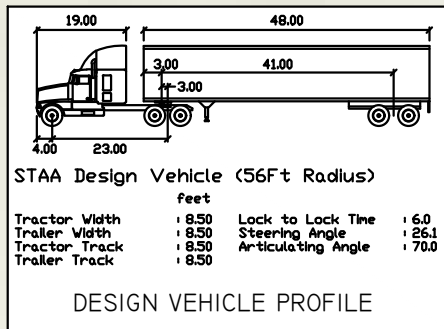


Figure 6

HDM CV-50ft Truck Turning - 15mph



SCALE: 1" = 30'

Figure 7

HDM STAA-56ft Truck Turning - 15mph

ATTACHMENT A
CALIFORNIA VEHICLE CODE SECTION EXCERPTS

(4) Any legal owner who knowingly releases or causes the release of a vehicle to a registered owner or the person in possession of the vehicle at the time of the impoundment or any agent of the registered owner in violation of this subdivision shall be guilty of a misdemeanor and subject to a civil penalty in the amount of two thousand dollars (\$2,000).

(5) The legal owner, registered owner, or person in possession of the vehicle shall not change or attempt to change the name of the legal owner or the registered owner on the records of the department until the vehicle is released from the impoundment.

(g) Notwithstanding any other provision of this section, the registered owner and not the legal owner shall remain responsible for any towing and storage charges related to the impoundment and the administrative charges authorized under Section 22850.5 and any parking fines, penalties, and administrative fees incurred by the registered owner.

(h) The law enforcement agency and the impounding agency, including any storage facility acting on behalf of the law enforcement agency or impounding agency, shall comply with this section and shall not be liable to the registered owner for the improper release of the vehicle to the legal owner or the legal owner's agent if the release complies with this section. The legal owner shall indemnify and hold harmless a storage facility from any claims arising out of the release of the vehicle to the legal owner or the legal owner's agent and from any damage to the vehicle after its release, including the reasonable costs associated with defending any such claims. A law enforcement agency shall not refuse to issue a release to a legal owner or the agent of a legal owner on the grounds that it previously issued a release.

(Amended by Stats. 2011, Ch. 536, Sec. 14. (AB 957) Effective January 1, 2012.)

21100.5. Notwithstanding any other provisions of law, local authorities of any city which is on a natural island with an area in excess of 20,000 acres and which is within a county having a population in excess of 4,000,000, may, if they determine such rules and regulations to be necessary in view of the special problem existing thereon with respect to the size and nature of the streets of the city and with respect to the characteristics and nature of the city itself, adopt rules and regulations by ordinance or resolution on the following matters:

- (a) Regulating the size of vehicles used on streets under their jurisdiction.
- (b) Regulating the number of vehicles permitted on streets under their jurisdiction.
- (c) Prohibiting the operation, on streets under their jurisdiction, of designated classes of vehicles.
- (d) Establishing noise limits, which are different from those prescribed by this code, for vehicles operated on streets under their jurisdiction and prohibiting the operation of vehicles which exceed such limits.
- (e) Establishing a maximum speed limit lower than that which the local authority otherwise permitted by this code to establish.

This section shall not apply to vehicles of utilities which are under the jurisdiction of the Public Utilities Commission while engaged in maintenance and construction type service work.

(Amended by Stats. 1974, Ch. 286.)

21101. Local authorities, for those highways under their jurisdiction, may adopt rules and regulations by ordinance or resolution, except as provided in subdivision (f), on the following matters:

(a) Closing any highway to vehicular traffic when, in the opinion of the legislative body having jurisdiction, the highway is either of the following:

- (1) No longer needed for vehicular traffic.
- (2) The closure is in the interests of public safety and all of the following conditions and requirements are met:
 - (A) The street proposed for closure is located in a county with a population of 6,000,000 or more.
 - (B) The street has an unsafe volume of traffic and a significant incidence of crime.
 - (C) The affected local authority conducts a public hearing on the proposed street closure.
 - (D) Notice of the hearing is provided to residents and owners of property adjacent to the street proposed for closure.

(E) The local authority makes a finding that closure of the street likely would result in a reduced rate of crime.

(b) Designating any highway as a through highway and requiring that all vehicles observe official traffic control devices before entering or crossing the highway or designating any intersection as a stop intersection and requiring all vehicles to stop at one or more entrances to the intersection.

(c) Prohibiting the use of particular highways by certain vehicles, except as otherwise provided by the Public Utilities Commission pursuant to Article 2 (commencing with Section 1031) of Chapter 5 of Part 1 of Division 1 of the Public Utilities Code.

(d) Closing particular streets during regular school hours for the purpose of conducting automobile driver training programs in the secondary schools and colleges of this state.

(e) Temporarily closing a portion of any street for celebrations, parades, local special events, and other purposes when, in the opinion of local authorities having jurisdiction or a public officer or employee that the local authority designates by resolution, the closing is necessary for the safety and protection of persons who are to use that portion of the street during the temporary closing.

(f) Implementing a slow streets program. For purposes of this section, a "slow streets program" may include closures to vehicular traffic or through vehicular traffic of neighborhood local streets with connections to citywide bicycle networks, destinations, such as a business district, that are within walking distance, or green space. A local authority may implement a slow streets program by adopting an ordinance that provides for the closing of streets to vehicular traffic or limiting access and speed on a street using roadway design features, including, but not limited to, islands, curbs, or traffic barriers. A local authority may implement a slow streets program if it meets all of the following requirements:

(1) Conducts an outreach and engagement process that includes notification to residents and owners of property abutting any street being considered for inclusion in the slow streets program.

(2) Determines that the closure or traffic restriction leaves a sufficient portion of the streets in the surrounding area for other public uses, including vehicular, pedestrian, and bicycle traffic.

(3) Provides advance notice of the closure or traffic restriction to residents and owners of property abutting the street.

(4) Clearly designates the street closure or traffic restriction with signage in compliance with the California Manual on Uniform Traffic Control Devices.

(5) Determines that the closure or traffic restriction is necessary for the safety and protection of persons who are to use that portion of the street during the closure or traffic restriction.

(6) Maintains a publically available internet website with information about its slow streets program, a list of streets that are included in the program or are being evaluated for inclusion in the program, and instructions for participating in the public engagement process.

(g) Prohibiting entry to, or exit from, or both, from any street by means of islands, curbs, traffic barriers, or other roadway design features to implement the circulation element of a general plan adopted pursuant to Article 6 (commencing with Section 65350) of Chapter 3 of Division 1 of Title 7 of the Government Code. The rules and regulations authorized by this subdivision shall be consistent with the responsibility of local government to provide for the health and safety of its citizens.

(Amended by Stats. 2022, Ch. 28, Sec. 154. (SB 1380) Effective January 1, 2023.)

21101.2. Local authorities may adopt rules and regulations by ordinance or resolution to provide that if a peace officer, as defined in Chapter 4.5 (commencing with Section 830) of Title 3 of Part 2 of the Penal Code, determines that the traffic load on a particular street or highway, or a portion thereof, is such that little or no vehicular flow is occurring and, additionally, if the peace officer finds that a significant number of vehicles are not promptly moving when an opportunity arises to do so, then the peace officer may divert vehicles, excepting public safety or emergency vehicles, from that street or highway, or portion thereof, subject to traffic congestion until such time as reasonably flowing traffic is restored.

(Added by Stats. 1982, Ch. 710, Sec. 3. Effective September 8, 1982.)

21101.4. (a) A local authority may, by ordinance or resolution, adopt rules and regulations for temporarily closing to through traffic a highway under its jurisdiction when all of the following conditions are, after a public hearing, found to exist:

specifying the maximum speed so determined at a distance of not more than 500 feet from each end of the bridge, elevated structure, tube, tunnel, or any approach thereto.

(Amended by Stats. 1974, Ch. 545.)

22405. (a) No person shall drive a vehicle on any bridge, elevated structure, tube, or tunnel constituting a part of a highway, at a speed which is greater than the maximum speed which can be maintained with safety to such structure.

(b) Upon the trial of any person charged with a violation of this section with respect to a sign erected under Section 22404, proof of the determination of the maximum speed by the Department of Transportation or local authority and the erection and maintenance of the speed signs shall constitute prima facie evidence of the maximum speed which can be maintained with safety to the bridge, elevated structure, tube, or tunnel.

(Amended by Stats. 1974, Ch. 545.)

22406. No person may drive any of the following vehicles on a highway at a speed in excess of 55 miles per hour:

(a) A motortruck or truck tractor having three or more axles or any motortruck or truck tractor drawing any other vehicle.

(b) A passenger vehicle or bus drawing any other vehicle.

(c) A schoolbus transporting any school pupil.

(d) A farm labor vehicle when transporting passengers.

(e) A vehicle transporting explosives.

(f) A trailer bus, as defined in Section 636.

(Amended by Stats. 2000, Ch. 787, Sec. 22. Effective January 1, 2001.)

22406.1. (a) A person who operates a commercial motor vehicle, as defined in subdivision (b) of Section 15210, upon a highway at a speed exceeding a posted speed limit established under this code by 15 miles per hour or more, is guilty of a misdemeanor.

(b) A person who holds a commercial driver's license, as defined in subdivision (a) of Section 15210, and operates a noncommercial motor vehicle upon a highway at a speed exceeding a posted speed limit established under this code by 15 miles per hour or more, is guilty of an infraction.

(c) A violation of either subdivision (a) or (b) is a "serious traffic violation," as defined in subdivision (p) of Section 15210, and is subject to the sanctions provided under Section 15306 or 15308, in addition to any other penalty provided by law.

(d) This section shall become operative on September 20, 2005.

(Amended by Stats. 2004, Ch. 952, Sec. 29. Effective January 1, 2005. Amended version operative September 20, 2005, pursuant to earlier operation of new subdivision (d).)

22406.5. Any person who drives a tank vehicle subject to Division 14.7 (commencing with Section 34000) while transporting more than 500 gallons of flammable liquid at a speed greater than the applicable speed limit or in willful or wanton disregard for the safety of persons or property is, in addition to any other applicable penalty, subject to a fine of not less than five hundred dollars (\$500) for a first offense and, for a second or subsequent offense within two years of a prior offense, to a fine of not less than two thousand dollars (\$2,000) and a suspension of up to six months of a hazardous materials or cargo tank endorsement, or both.

(Added by Stats. 1991, Ch. 1043, Sec. 1.)

22407. Whenever the Department of Transportation or local authority determines upon the basis of engineering studies and a traffic survey that the speed of 55 miles per hour is more than is reasonable or safe for vehicles mentioned in subdivision (a) of Section 22406, which have a manufacturer's gross vehicle weight rating of 10,000 pounds or more, in descending a grade upon any portion of a highway, the department or local authority, with respect to highways under their respective jurisdiction, may determine and declare a speed limit of 50, 45, 40, 35, 30, 25, or 20 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe, which declared speed limit shall be effective for such vehicles when appropriate signs giving notice thereof are erected upon the highway.

(Amended by Stats. 1973, Ch. 82, Sec. 1.)

22409. No person shall operate any vehicle equipped with any solid tire when such vehicle has a gross weight as set forth in the following table at any speed in excess of the speed set forth opposite such gross weight:

When gross weight	Maximum speed
of vehicle and	in miles
load is:	per hour:
10,000 lbs. or more but less than 16,000 lbs.	25
16,000 lbs. or more but less than 22,000 lbs.	15
22,000 lbs. or more	12

(Enacted by Stats. 1959, Ch. 3.)

22410. No person shall operate any vehicle equipped with any metal tire in contact with the surface of the highway at a speed in excess of six miles per hour.

(Enacted by Stats. 1959, Ch. 3.)

22411. No person shall operate a motorized scooter at a speed in excess of 15 miles per hour.

(Added by Stats. 1999, Ch. 722, Sec. 7. Effective January 1, 2000.)

22413. Whenever a local authority determines upon the basis of an engineering and traffic survey that the prima facie limit of 25 miles per hour is more than is reasonable and safe on any portion of a street having a grade in excess of 10 percent, the local authority may by ordinance determine and declare a maximum limit of 20 or 15 miles per hour, whichever is found most appropriate and is reasonable and safe. The declared maximum speed shall be effective when appropriate signs giving notice thereof are erected upon the street.

(Added by Stats. 1959, Ch. 318.)

ATTACHMENT B
TRAFFIC COUNTS

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Saturday, December 3, 2022					Total Daily Volume: 1133										Description: Total Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
8	2	3	4	4	9	34	51	63	69	99	104	105	91	96	98	100	67	45	33	18	14	7	9	
2	0	2	1	0	1	6	12	12	18	15	21	33	21	26	26	28	21	10	10	6	3	2	4	
2	0	1	0	1	3	5	18	16	11	27	32	27	16	25	19	21	20	12	7	3	3	1	3	
2	2	0	1	1	3	9	13	19	13	19	31	21	24	23	25	26	18	15	6	7	5	2	1	
2	0	0	2	2	2	14	8	16	27	38	20	24	30	22	28	25	8	8	10	2	3	2	1	

Date: Saturday, December 3, 2022						Total Daily Volume: 649											Description: Northbound Volume							
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
6	2	2	0	1	3	25	37	42	39	55	60	73	57	51	56	41	24	23	21	14	8	5	4	
0	0	1	0	0	0	4	5	9	14	5	10	26	13	18	13	9	7	5	6	4	1	2	1	
2	0	1	0	0	2	5	15	11	5	12	21	19	8	11	7	8	7	6	4	2	3	0	1	
2	2	0	0	0	0	8	10	11	6	10	16	14	14	8	17	13	8	9	5	6	3	2	1	
2	0	0	0	1	1	8	7	11	14	28	13	14	22	14	19	11	2	3	6	2	1	1	1	

Date: Saturday, December 3, 2022					Total Daily Volume: 484										Description: Southbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
2	0	1	4	3	6	9	14	21	30	44	44	32	34	45	42	59	43	22	12	4	6	2	5	
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0	0	0	0	1	1	0	3	5	6	15	11	8	8	14	12	13	13	6	3	1	0	1	2	
0	0	0	1	1	3	1	3	8	7	9	15	7	10	15	8	13	10	6	1	1	2	0	0	
0	0	0	2	1	1	6	1	5	13	10	7	10	8	8	9	14	6	5	4	0	2	1	0	

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Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Sunday, December 4, 2022					Total Daily Volume: 1229										Description: Total Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
6	4	2	3	6	7	15	38	86	129	85	136	122	126	120	104	77	52	50	21	13	9	11	7	
3	1	1	0	1	2	2	13	14	33	22	38	29	31	28	26	27	12	14	5	3	4	2	3	
0	1	0	3	0	1	4	7	18	18	22	29	27	37	28	30	11	10	12	4	4	0	4	0	
0	1	0	0	2	0	5	6	18	42	25	32	33	28	29	23	23	19	13	9	4	4	4	3	
3	1	1	0	3	4	4	12	36	36	16	37	33	30	35	25	16	11	11	3	2	1	1	1	

Date: Sunday, December 4, 2022					Total Daily Volume: 443										Description: Northbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
4	2	2	0	2	5	3	11	37	31	29	63	41	48	41	32	23	16	21	10	8	3	7	4	
3	0	1	0	0	1	0	3	6	8	9	20	12	9	5	7	6	3	5	2	2	0	1	3	
0	1	0	0	0	1	0	0	4	3	9	10	7	15	15	7	5	2	7	3	2	0	3	0	
0	1	0	0	0	0	2	2	7	13	8	15	14	12	10	8	7	8	7	4	2	3	2	1	
1	0	1	0	2	3	1	6	20	7	3	18	8	12	11	10	5	3	2	1	2	0	1	0	

Date: Sunday, December 4, 2022					Total Daily Volume: 786										Description: Southbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
2	2	0	3	4	2	12	27	49	98	56	73	81	78	79	72	54	36	29	11	5	6	4	3	
0	1	0	0	1	1	2	10	8	25	13	18	17	22	23	19	21	9	9	3	1	4	1	0	
0	0	0	3	0	0	4	7	14	15	13	19	20	22	13	23	6	8	5	1	2	0	1	0	
0	0	0	0	2	0	3	4	11	29	17	17	19	16	19	15	16	11	6	5	2	1	2	2	
2	1	0	0	1	1	3	6	16	29	13	19	25	18	24	15	11	8	9	2	0	1	0	1	

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Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Monday, December 5, 2022					Total Daily Volume: 1066										Description: Total Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
5	4	4	6	19	36	49	79	83	80	77	74	68	66	66	87	75	68	51	34	20	11	2	2	
3	0	1	4	5	11	14	20	20	17	20	22	17	17	24	23	19	19	13	8	11	4	0	0	
1	2	0	0	7	8	10	13	27	20	17	16	14	17	10	25	25	18	15	7	2	2	0	0	
0	1	2	0	5	7	10	17	23	21	20	21	22	18	20	19	17	12	13	8	2	3	0	1	
1	1	1	2	2	10	15	29	13	22	20	15	15	14	12	20	14	19	10	11	5	2	2	1	

Date: Monday, December 5, 2022					Total Daily Volume: 519										Description: Northbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
4	1	1	0	2	11	20	53	41	35	34	21	39	31	31	43	35	30	35	25	14	9	2	2	
2	0	1	0	1	2	5	13	12	5	7	4	5	6	11	7	7	11	7	5	7	3	0	0	
1	0	0	0	1	3	5	7	9	7	6	3	11	10	5	16	11	6	12	7	1	1	0	0	
0	0	0	0	0	2	1	12	14	11	12	9	10	7	9	9	8	2	7	7	1	3	0	1	
1	1	0	0	0	4	9	21	6	12	9	5	13	8	6	11	9	11	9	6	5	2	2	1	

Date: Monday, December 5, 2022					Total Daily Volume: 547										Description: Southbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
1	3	3	6	17	25	29	26	42	45	43	53	29	35	35	44	40	38	16	9	6	2	0	0	
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0	2	0	0	6	5	5	6	18	13	11	13	3	7	5	9	14	12	3	0	1	1	0	0	
0	1	2	0	5	5	9	5	9	10	8	12	12	11	11	10	9	10	6	1	1	0	0	0	
0	0	1	2	2	6	6	8	7	10	11	10	2	6	6	9	5	8	1	5	0	0	0	0	

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4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Tuesday, December 6, 2022					Total Daily Volume: 955										Description: Total Volume								
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
5	3	7	6	10	24	36	60	67	74	88	65	58	93	66	75	64	64	30	21	16	11	11	1
1	1	0	1	2	7	6	11	10	21	18	14	13	21	23	21	15	14	7	7	3	3	4	0
0	0	2	1	2	9	8	15	21	18	22	19	21	24	10	12	17	20	11	2	3	4	3	0
1	0	0	2	2	3	14	10	16	19	26	17	15	29	14	22	15	19	7	3	9	2	2	0
3	2	5	2	4	5	8	24	20	16	22	15	9	19	19	20	17	11	5	9	1	2	2	1

Date: Tuesday, December 6, 2022					Total Daily Volume: 468										Description: Northbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
0	1	0	0	0	7	20	30	30	31	48	32	29	48	31	32	22	37	24	13	13	10	9	1	
0	0	0	0	0	1	2	5	5	10	13	7	8	14	11	11	4	5	4	4	2	3	3	0	
0	0	0	0	0	2	4	7	8	4	13	10	9	11	2	2	5	10	8	2	3	4	2	0	
0	0	0	0	0	0	8	7	7	10	14	9	9	18	7	9	5	12	7	3	7	2	2	0	
0	1	0	0	0	4	6	11	10	7	8	6	3	5	11	10	8	10	5	4	1	1	2	1	

Date: Tuesday, December 6, 2022					Total Daily Volume: 487										Description: Southbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
5	2	7	6	10	17	16	30	37	43	40	33	29	45	35	43	42	27	6	8	3	1	2	0	
1	1	0	1	2	6	4	6	5	11	5	7	5	7	12	10	11	9	3	3	1	0	1	0	
0	0	2	1	2	7	4	8	13	14	9	9	12	13	8	10	12	10	3	0	0	0	1	0	
1	0	0	2	2	3	6	3	9	9	12	8	6	11	7	13	10	7	0	0	2	0	0	0	
3	1	5	2	4	1	2	13	10	9	14	9	6	14	8	10	9	1	0	5	0	1	0	0	

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4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Wednesday, December 7, 2022						Total Daily Volume: 997											Description: Total Volume						
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
3	3	7	9	18	30	49	78	71	60	64	77	65	64	80	74	87	57	32	34	16	13	4	2
2	1	1	3	4	4	11	22	18	10	26	25	17	21	16	13	27	11	9	7	5	4	2	0
0	1	2	3	5	6	9	20	12	12	14	28	19	13	22	22	19	15	7	14	3	3	1	1
0	1	3	3	5	7	18	15	25	21	10	10	19	17	27	18	17	23	4	10	4	1	1	1
1	0	1	0	4	13	11	21	16	17	14	14	10	13	15	21	24	8	12	3	4	5	0	0

Date: Wednesday, December 7, 2022						Total Daily Volume: 501										Description: Northbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
0	1	1	0	2	12	28	46	38	22	33	37	38	33	44	27	35	31	23	21	13	10	4	2		
0	0	0	0	0	3	5	9	12	3	16	12	8	11	9	5	8	6	7	4	3	4	2	0		
0	1	1	0	1	1	4	14	6	2	5	14	12	8	12	10	4	10	5	8	3	2	1	1		
0	0	0	0	0	2	12	11	11	11	5	5	11	9	13	2	10	9	2	7	3	0	1	1		
0	0	0	0	1	6	7	12	9	6	7	6	7	5	10	10	13	6	9	2	4	4	0	0		

Date: Wednesday, December 7, 2022						Total Daily Volume: 496											Description: Southbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00			
3	2	6	9	16	18	21	32	33	38	31	40	27	31	36	47	52	26	9	13	3	3	0	0			
2	1	1	3	4	1	6	13	6	7	10	13	9	10	7	8	19	5	2	3	2	0	0	0			
0	0	1	3	4	5	5	6	6	10	9	14	7	5	10	12	15	5	2	6	0	1	0	0			
0	1	3	3	5	5	6	4	14	10	5	5	8	8	14	16	7	14	2	3	1	1	0	0			
1	0	1	0	3	7	4	9	7	11	7	8	3	8	5	11	11	2	3	1	0	1	0	0			

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4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Thursday, December 8, 2022					Total Daily Volume: 1101										Description: Total Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
6	2	0	4	13	27	47	73	66	76	75	84	72	87	103	84	81	76	49	33	17	11	10	5	
0	1	0	1	4	7	11	15	15	22	20	24	14	17	19	21	22	19	13	12	3	3	3	4	
4	0	0	1	2	8	8	22	15	20	16	26	15	22	24	15	21	15	11	10	9	1	3	0	
2	1	0	1	6	8	13	19	18	19	21	14	25	18	25	26	21	31	9	4	2	5	3	0	
0	0	0	1	1	4	15	17	18	15	18	20	18	30	35	22	17	11	16	7	3	2	1	1	

Date: Thursday, December 8, 2022					Total Daily Volume: 596										Description: Northbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
4	1	0	0	1	9	25	44	35	32	37	43	38	48	65	44	37	44	32	25	11	9	8	4	
0	0	0	0	0	3	5	9	9	5	8	18	7	5	14	12	9	13	6	10	1	2	3	4	
3	0	0	0	0	3	4	12	7	9	7	11	8	14	16	7	11	9	10	8	8	1	3	0	
1	1	0	0	0	2	5	12	10	8	13	3	12	11	15	13	8	16	5	3	0	4	2	0	
0	0	0	0	1	1	11	11	9	10	9	11	11	18	20	12	9	6	11	4	2	2	0	0	

Date: Thursday, December 8, 2022					Total Daily Volume: 505										Description: Southbound Volume									
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
2	1	0	4	12	18	22	29	31	44	38	41	34	39	38	40	44	32	17	8	6	2	2	1	
0	1	0	1	4	4	6	6	6	17	12	6	7	12	5	9	13	6	7	2	2	1	0	0	
1	0	0	1	2	5	4	10	8	11	9	15	7	8	8	8	10	6	1	2	1	0	0	0	
1	0	0	1	6	6	8	7	8	11	8	11	13	7	10	13	13	15	4	1	2	1	1	0	
0	0	0	1	0	3	4	6	9	5	9	9	7	12	15	10	8	5	5	3	1	0	1	1	

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4542 Ruffner Street, Suite 100, San Diego, CA 92111

Average Daily Traffic

Location: **Montezuma Valley Rd (Borrego Highway)**

Date: Friday, December 9, 2022					Total Daily Volume: 1303										Description: Total Volume								
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
2	4	0	3	9	19	28	68	70	81	79	89	93	82	118	123	110	103	68	46	58	27	13	10
0	3	0	1	3	8	4	13	18	18	19	29	26	17	28	34	29	35	20	17	17	6	3	3
0	1	0	0	5	2	3	14	21	23	19	22	15	13	30	30	31	28	19	14	20	11	3	5
2	0	0	1	1	6	9	25	18	21	19	14	21	20	29	35	26	16	12	10	10	2	2	2
0	0	0	1	0	3	12	16	13	19	22	24	31	32	31	24	24	24	17	5	11	8	5	0

Date: Friday, December 9, 2022					Total Daily Volume: 794										Description: Northbound Volume								
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	1	0	1	0	10	21	43	38	42	42	43	48	39	65	88	69	62	57	36	47	22	11	8
0	1	0	0	0	3	1	6	10	11	12	15	13	7	15	27	18	22	15	12	15	5	3	2
0	0	0	0	0	1	3	9	13	12	10	5	7	3	13	23	22	18	18	11	14	9	3	5
1	0	0	0	0	3	7	16	12	13	10	7	9	16	18	21	15	8	9	9	7	2	2	1
0	0	0	1	0	3	10	12	3	6	10	16	19	13	19	17	14	14	15	4	11	6	3	0

Date: Friday, December 9, 2022					Total Daily Volume: 509										Description: Southbound Volume								
0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	3	0	2	9	9	7	25	32	39	37	46	45	43	53	35	41	41	11	10	11	5	2	2
0	2	0	1	3	5	3	7	8	7	7	14	13	10	13	7	11	13	5	5	2	1	0	1
0	1	0	0	5	1	0	5	8	11	9	17	8	10	17	7	9	10	1	3	6	2	0	0
1	0	0	1	1	3	2	9	6	8	9	7	12	4	11	14	11	8	3	1	3	0	0	1
0	0	0	0	0	0	2	4	10	13	12	8	12	19	12	7	10	10	2	1	0	2	2	0

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4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Northbound Vehicle Classification and Volume*
 Date: **Saturday, December 3, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	6	0	2	2	2	0	0	4	0	1	0	0	0	1	0	0	0	0
1:00	2	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0
2:00	2	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
5:00	3	0	2	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0
6:00	25	4	5	8	8	0	11	7	1	6	0	0	0	0	0	0	0	0
7:00	37	5	15	10	7	0	6	14	3	13	0	0	0	1	0	0	0	0
8:00	42	9	11	11	11	0	8	22	0	11	0	0	0	0	0	0	1	0
9:00	39	14	5	6	14	1	9	17	2	10	0	0	0	0	0	0	0	0
10:00	55	5	12	10	28	7	28	17	1	2	0	0	0	0	0	0	0	0
11:00	60	10	21	16	13	3	18	24	2	13	0	0	0	0	0	0	0	0
12:00	73	26	19	14	14	5	26	31	2	9	0	0	0	0	0	0	0	0
13:00	57	13	8	14	22	2	25	20	1	9	0	0	0	0	0	0	0	0
14:00	51	18	11	8	14	8	12	24	0	6	0	0	0	0	0	0	1	0
15:00	56	13	7	17	19	2	23	23	0	7	0	0	0	1	0	0	0	0
16:00	41	9	8	13	11	0	14	16	1	10	0	0	0	0	0	0	0	0
17:00	24	7	7	8	2	0	10	11	0	3	0	0	0	0	0	0	0	0
18:00	23	5	6	9	3	0	11	10	1	1	0	0	0	0	0	0	0	0
19:00	21	6	4	5	6	0	9	9	0	3	0	0	0	0	0	0	0	0
20:00	14	4	2	6	2	0	5	8	0	1	0	0	0	0	0	0	0	0
21:00	8	1	3	3	1	0	6	1	0	0	0	0	1	0	0	0	0	0
22:00	5	2	0	2	1	0	3	2	0	0	0	0	0	0	0	0	0	0
23:00	4	1	1	1	1	0	2	2	0	0	0	0	0	0	0	0	0	0
Total:	649	Classifications Totals:				28	229	265	14	107	0	0	1	3	0	0	2	0
% of total:		4.3%	35.3%	40.8%	2.2%	16.5%	0.0%	0.0%	0.2%	0.5%	0.0%	0.0%	0.3%	0.0%				

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume

%

Volume

%

Volume

%

Volume

%

79

12.2%

130

20.0%

65

10.0%

375

57.8%

Vehicle Classification

3 - 2-Axle, 4-Tire Single Units

5 - 2-Axle, 6-Tire Single Units

7 - 4-Axle Single Units

11 - 5-Axle Multi-Trailers

Definitions:

4 - Buses

6 - 3-Axle Single Units

8 - 4-Axle Single Trailers

12 - 6-Axle Multi-Trailers

1 - Motorcycles

5 - 2-Axle, 6-Tire Single Units

7 - 4-Axle Single Units

9 - 5-Axle Single Trailers

13 - 7-Axle Multi-Trailers

2 - Passenger Cars

6 - 3-Axle Single Units

8 - 4-Axle Single Trailers

10 - 6-Axle Single Trailers

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Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Southbound Vehicle Classification and Volume*
 Date: **Saturday, December 3, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	2	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
3:00	4	1	0	1	2	0	2	1	0	0	0	0	0	1	0	0	0	0
4:00	3	0	1	1	1	0	3	0	0	0	0	0	0	0	0	0	0	0
5:00	6	1	1	3	1	0	5	1	0	0	0	0	0	0	0	0	0	0
6:00	9	2	0	1	6	0	8	1	0	0	0	0	0	0	0	0	0	0
7:00	14	7	3	3	1	0	10	4	0	0	0	0	0	0	0	0	0	0
8:00	21	3	5	8	5	0	19	2	0	0	0	0	0	0	0	0	0	0
9:00	30	4	6	7	13	0	25	4	0	1	0	0	0	0	0	0	0	0
10:00	44	10	15	9	10	2	36	5	0	0	0	0	0	1	0	0	0	0
11:00	44	11	11	15	7	0	36	7	0	0	0	0	0	1	0	0	0	0
12:00	32	7	8	7	10	1	28	3	0	0	0	0	0	0	0	0	0	0
13:00	34	8	8	10	8	4	28	2	0	0	0	0	0	0	0	0	0	0
14:00	45	8	14	15	8	8	33	4	0	0	0	0	0	0	0	0	0	0
15:00	42	13	12	8	9	0	35	6	1	0	0	0	0	0	0	0	0	0
16:00	59	19	13	13	14	0	50	8	0	1	0	0	0	0	0	0	0	0
17:00	43	14	13	10	6	0	38	5	0	0	0	0	0	0	0	0	0	0
18:00	22	5	6	6	5	1	19	2	0	0	0	0	0	0	0	0	0	0
19:00	12	4	3	1	4	0	10	2	0	0	0	0	0	0	0	0	0	0
20:00	4	2	1	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0
21:00	6	2	0	2	2	0	5	1	0	0	0	0	0	0	0	0	0	0
22:00	2	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0
23:00	5	3	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
Total:	484	Classifications Totals:				16	404	58	1	2	0	0	0	3	0	0	0	0
% of total:		3.3%	83.5%	12.0%		3.3%	83.5%	12.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:	Volume	%	Volume	%	Volume	%	Volume	%
	35	7.2%	66	13.6%	102	21.1%	281	58.1%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Northbound Vehicle Classification and Volume*
 Date: **Sunday, December 4, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	4	3	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	0
1:00	2	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
2:00	2	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	2	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0
5:00	5	1	1	0	3	0	2	2	1	0	0	0	0	0	0	0	0	0
6:00	3	0	0	2	1	0	2	1	0	0	0	0	0	0	0	0	0	0
7:00	11	3	0	2	6	0	3	6	0	2	0	0	0	0	0	0	0	0
8:00	37	6	4	7	20	0	11	23	1	2	0	0	0	0	0	0	0	0
9:00	31	8	3	13	7	0	10	16	0	5	0	0	0	0	0	0	0	0
10:00	29	9	9	8	3	0	14	10	0	4	0	0	1	0	0	0	0	0
11:00	63	20	10	15	18	7	22	30	0	4	0	0	0	0	0	0	0	0
12:00	41	12	7	14	8	2	19	13	0	7	0	0	0	0	0	0	0	0
13:00	48	9	15	12	12	7	15	18	3	5	0	0	0	0	0	0	0	0
14:00	41	5	15	10	11	0	18	14	1	8	0	0	0	0	0	0	0	0
15:00	32	7	7	8	10	2	9	17	1	3	0	0	0	0	0	0	0	0
16:00	23	6	5	7	5	0	10	12	0	1	0	0	0	0	0	0	0	0
17:00	16	3	2	8	3	0	10	5	0	1	0	0	0	0	0	0	0	0
18:00	21	5	7	7	2	0	9	9	0	3	0	0	0	0	0	0	0	0
19:00	10	2	3	4	1	0	3	4	0	3	0	0	0	0	0	0	0	0
20:00	8	2	2	2	2	0	1	5	0	2	0	0	0	0	0	0	0	0
21:00	3	0	0	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0
22:00	7	1	3	2	1	0	2	4	0	1	0	0	0	0	0	0	0	0
23:00	4	3	0	1	0	0	1	3	0	0	0	0	0	0	0	0	0	0
Total:	443	Classifications Totals:				18	165	200	7	52	0	0	1	0	0	0	0	0
% of total:		4.1%	37.2%	45.1%	1.6%	11.7%	0.0%	0.0%	0.2%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
48	10.8%	89	20.1%	39	8.8%	267	60.3%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**

Description: *Southbound Vehicle Classification and Volume*

Date: **Sunday, December 4, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	2	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0
1:00	2	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	3	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
4:00	4	1	0	2	1	0	2	2	0	0	0	0	0	0	0	0	0	0
5:00	2	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0
6:00	12	2	4	3	3	0	12	0	0	0	0	0	0	0	0	0	0	0
7:00	27	10	7	4	6	0	21	4	1	0	0	0	0	1	0	0	0	0
8:00	49	8	14	11	16	0	41	8	0	0	0	0	0	0	0	0	0	0
9:00	98	25	15	29	29	0	80	17	1	0	0	0	0	0	0	0	0	0
10:00	56	13	13	17	13	3	38	13	2	0	0	0	0	0	0	0	0	0
11:00	73	18	19	17	19	3	52	17	1	0	0	0	0	0	0	0	0	0
12:00	81	17	20	19	25	11	58	9	0	3	0	0	0	0	0	0	0	0
13:00	78	22	22	16	18	11	59	7	1	0	0	0	0	0	0	0	0	0
14:00	79	23	13	19	24	7	63	7	1	1	0	0	0	0	0	0	0	0
15:00	72	19	23	15	15	9	58	4	0	0	0	1	0	0	0	0	0	0
16:00	54	21	6	16	11	0	44	9	0	0	0	1	0	0	0	0	0	0
17:00	36	9	8	11	8	0	29	6	0	1	0	0	0	0	0	0	0	0
18:00	29	9	5	6	9	0	25	4	0	0	0	0	0	0	0	0	0	0
19:00	11	3	1	5	2	0	9	2	0	0	0	0	0	0	0	0	0	0
20:00	5	1	2	2	0	0	4	1	0	0	0	0	0	0	0	0	0	0
21:00	6	4	0	1	1	0	5	0	0	0	0	0	0	1	0	0	0	0
22:00	4	1	1	2	0	0	2	2	0	0	0	0	0	0	0	0	0	0
23:00	3	0	0	2	1	0	2	1	0	0	0	0	0	0	0	0	0	0
Total:	786	Classifications Totals:				44	613	113	7	5	0	2	0	2	0	0	0	0
% of total:		5.6%	78.0%	14.4%	0.9%	0.6%	0.0%	0.3%	0.0%	0.3%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
76	9.7%	159	20.2%	90	11.5%	461	58.7%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Northbound Vehicle Classification and Volume*
 Date: **Monday, December 5, 2022**

Vehicle Classifications:

Time:	0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	4	2	1	0	1	0	3	1	0	0	0	0	0	0	0	0	0
1:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
2:00	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	2	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
5:00	11	2	3	2	4	0	2	4	0	5	0	0	0	0	0	0	0
6:00	20	5	5	1	9	0	7	10	0	3	0	0	0	0	0	0	0
7:00	53	13	7	12	21	0	16	23	4	9	0	0	1	0	0	0	0
8:00	41	12	9	14	6	0	12	14	2	13	0	0	0	0	0	0	0
9:00	35	5	7	11	12	1	10	14	2	8	0	0	0	0	0	0	0
10:00	34	7	6	12	9	0	11	14	0	9	0	0	0	0	0	0	0
11:00	21	4	3	9	5	0	4	6	2	8	0	0	0	1	0	0	0
12:00	39	5	11	10	13	0	15	15	2	5	0	0	1	1	0	0	0
13:00	31	6	10	7	8	1	9	14	3	4	0	0	0	0	0	0	0
14:00	31	11	5	9	6	0	12	11	0	8	0	0	0	0	0	0	0
15:00	43	7	16	9	11	0	18	15	1	8	0	0	0	1	0	0	0
16:00	35	7	11	8	9	0	11	20	1	3	0	0	0	0	0	0	0
17:00	30	11	6	2	11	0	12	13	2	2	0	0	0	1	0	0	0
18:00	35	7	12	7	9	0	11	18	1	5	0	0	0	0	0	0	0
19:00	25	5	7	7	6	0	9	11	0	5	0	0	0	0	0	0	0
20:00	14	7	1	1	5	0	5	8	0	1	0	0	0	0	0	0	0
21:00	9	3	1	3	2	0	1	7	1	0	0	0	0	0	0	0	0
22:00	2	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
23:00	2	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0
Total:	519	Classifications Totals:				2	172	221	21	97	0	0	2	4	0	0	0
% of total:		0.4%	33.1%	42.6%	4.0%	18.7%	0.0%	0.0%	0.4%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
94	18.1%	70	13.5%	65	12.5%	290	55.9%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Southbound Vehicle Classification and Volume*
 Date: **Monday, December 5, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1:00	3	0	2	1	0	0	1	1	0	0	0	0	0	1	0	0	0	0
2:00	3	0	0	2	1	0	2	0	0	0	0	0	0	1	0	0	0	0
3:00	6	4	0	0	2	0	2	0	0	0	0	0	0	4	0	0	0	0
4:00	17	4	6	5	2	0	13	2	0	0	0	0	0	2	0	0	0	0
5:00	25	9	5	5	6	0	24	0	0	1	0	0	0	0	0	0	0	0
6:00	29	9	5	9	6	0	28	1	0	0	0	0	0	0	0	0	0	0
7:00	26	7	6	5	8	0	17	5	0	1	0	0	0	3	0	0	0	0
8:00	42	8	18	9	7	0	36	6	0	0	0	0	0	0	0	0	0	0
9:00	45	12	13	10	10	0	38	3	0	0	0	0	0	4	0	0	0	0
10:00	43	13	11	8	11	0	27	10	2	0	0	0	0	4	0	0	0	0
11:00	53	18	13	12	10	3	42	8	0	0	0	0	0	0	0	0	0	0
12:00	29	12	3	12	2	2	19	8	0	0	0	0	0	0	0	0	0	0
13:00	35	11	7	11	6	1	30	4	0	0	0	0	0	0	0	0	0	0
14:00	35	13	5	11	6	0	31	4	0	0	0	0	0	0	0	0	0	0
15:00	44	16	9	10	9	0	33	9	0	0	0	1	0	1	0	0	0	0
16:00	40	12	14	9	5	1	35	2	1	1	0	0	0	0	0	0	0	0
17:00	38	8	12	10	8	0	33	5	0	0	0	0	0	0	0	0	0	0
18:00	16	6	3	6	1	0	15	1	0	0	0	0	0	0	0	0	0	0
19:00	9	3	0	1	5	0	7	1	1	0	0	0	0	0	0	0	0	0
20:00	6	4	1	1	0	0	5	1	0	0	0	0	0	0	0	0	0	0
21:00	2	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total:	547	Classifications Totals:				7	441	71	4	3	0	1	0	20	0	0	0	0
% of total:		1.3%	80.6%	13.0%		0.7%	0.5%	0.0%	0.2%	0.0%	0.2%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
68	12.4%	64	11.7%	78	14.3%	337	61.6%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**

Description: *Northbound Vehicle Classification and Volume*

Date: **Tuesday, December 6, 2022**

Vehicle Classifications:

Time:	0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	7	1	2	0	4	0	1	2	1	3	0	0	0	0	0	0	0
6:00	20	2	4	8	6	0	2	9	2	6	0	0	0	1	0	0	0
7:00	30	5	7	7	11	0	9	13	1	5	0	0	0	2	0	0	0
8:00	30	5	8	7	10	0	6	16	1	6	0	0	1	0	0	0	0
9:00	31	10	4	10	7	0	5	15	2	9	0	0	0	0	0	0	0
10:00	48	13	13	14	8	1	15	21	2	7	0	0	2	0	0	0	0
11:00	32	7	10	9	6	1	8	13	1	8	1	0	0	0	0	0	0
12:00	29	8	9	9	3	0	12	9	1	6	0	0	0	1	0	0	0
13:00	48	14	11	18	5	1	17	22	0	8	0	0	0	0	0	0	0
14:00	31	11	2	7	11	2	13	9	0	6	0	0	1	0	0	0	0
15:00	32	11	2	9	10	1	10	17	0	4	0	0	0	0	0	0	0
16:00	22	4	5	5	8	1	7	7	2	5	0	0	0	0	0	0	0
17:00	37	5	10	12	10	0	14	19	2	2	0	0	0	0	0	0	0
18:00	24	4	8	7	5	0	11	9	2	2	0	0	0	0	0	0	0
19:00	13	4	2	3	4	0	7	5	0	1	0	0	0	0	0	0	0
20:00	13	2	3	7	1	0	7	5	0	1	0	0	0	0	0	0	0
21:00	10	3	4	2	1	0	3	5	1	1	0	0	0	0	0	0	0
22:00	9	3	2	2	2	0	2	6	0	1	0	0	0	0	0	0	0
23:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Total:	468	Classifications Totals:				7	151	202	18	81	1	0	4	4	0	0	0
% of total:		1.5%	32.3%	43.2%	3.8%	17.3%	0.2%	0.0%	0.9%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
60	12.8%	77	16.5%	59	12.6%	272	58.1%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Southbound Vehicle Classification and Volume*
 Date: **Tuesday, December 6, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	5	1	0	1	3	0	3	1	0	1	0	0	0	0	0	0	0	0
1:00	2	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0
2:00	7	0	2	0	5	0	0	0	1	0	0	0	0	6	0	0	0	0
3:00	6	1	1	2	2	0	3	0	0	0	0	0	0	3	0	0	0	0
4:00	10	2	2	2	4	0	8	1	0	1	0	0	0	0	0	0	0	0
5:00	17	6	7	3	1	0	15	1	0	0	0	0	0	1	0	0	0	0
6:00	16	4	4	6	2	0	16	0	0	0	0	0	0	0	0	0	0	0
7:00	30	6	8	3	13	0	25	3	1	0	1	0	0	0	0	0	0	0
8:00	37	5	13	9	10	0	29	5	0	1	0	0	0	2	0	0	0	0
9:00	43	11	14	9	9	0	28	8	1	0	0	0	1	5	0	0	0	0
10:00	40	5	9	12	14	0	28	8	2	0	0	0	0	2	0	0	0	0
11:00	33	7	9	8	9	1	22	10	0	0	0	0	0	0	0	0	0	0
12:00	29	5	12	6	6	1	22	6	0	0	0	0	0	0	0	0	0	0
13:00	45	7	13	11	14	10	25	6	2	1	1	0	0	0	0	0	0	0
14:00	35	12	8	7	8	0	33	2	0	0	0	0	0	0	0	0	0	0
15:00	43	10	10	13	10	0	33	9	0	1	0	0	0	0	0	0	0	0
16:00	42	11	12	10	9	1	35	5	1	0	0	0	0	0	0	0	0	0
17:00	27	9	10	7	1	0	21	6	0	0	0	0	0	0	0	0	0	0
18:00	6	3	3	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0
19:00	8	3	0	0	5	0	6	2	0	0	0	0	0	0	0	0	0	0
20:00	3	1	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0
21:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
22:00	2	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total:	487	Classifications Totals:				13	363	75	8	5	2	0	1	20	0	0	0	0
% of total:		2.7%	74.5%	15.4%	1.6%	1.0%	0.4%	0.0%	0.2%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:	Volume	%	Volume	%	Volume	%	Volume	%
	67	13.8%	74	15.2%	69	14.2%	277	56.9%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Northbound Vehicle Classification and Volume*
 Date: **Wednesday, December 7, 2022**

Vehicle Classifications:

Time:	0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
2:00	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	2	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0
5:00	12	3	1	2	6	0	3	5	2	2	0	0	0	0	0	0	0
6:00	28	5	4	12	7	0	11	10	1	3	3	0	0	0	0	0	0
7:00	46	9	14	11	12	0	18	17	1	10	0	0	0	0	0	0	0
8:00	38	12	6	11	9	0	9	19	1	8	0	0	0	1	0	0	0
9:00	22	3	2	11	6	0	7	7	2	6	0	0	0	0	0	0	0
10:00	33	16	5	5	7	2	13	11	1	6	0	0	0	0	0	0	0
11:00	37	12	14	5	6	3	9	17	4	4	0	0	0	0	0	0	0
12:00	38	8	12	11	7	1	11	17	0	9	0	0	0	0	0	0	0
13:00	33	11	8	9	5	3	7	19	0	4	0	0	0	0	0	0	0
14:00	44	9	12	13	10	0	14	18	3	8	0	0	1	0	0	0	0
15:00	27	5	10	2	10	0	8	16	0	3	0	0	0	0	0	0	0
16:00	35	8	4	10	13	0	13	14	1	7	0	0	0	0	0	0	0
17:00	31	6	10	9	6	0	11	16	0	4	0	0	0	0	0	0	0
18:00	23	7	5	2	9	0	9	8	1	5	0	0	0	0	0	0	0
19:00	21	4	8	7	2	0	10	10	0	1	0	0	0	0	0	0	0
20:00	13	3	3	3	4	0	3	3	1	6	0	0	0	0	0	0	0
21:00	10	4	2	0	4	0	2	6	0	2	0	0	0	0	0	0	0
22:00	4	2	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0
23:00	2	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0
Total:	501	Classifications Totals:				10	160	215	19	92	3	0	1	1	0	0	0
% of total:		2.0%	31.9%	42.9%	3.8%	18.4%	0.6%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
84	16.8%	71	14.2%	66	13.2%	280	55.9%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Southbound Vehicle Classification and Volume*
 Date: **Wednesday, December 7, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	3	2	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0
1:00	2	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0
2:00	6	1	1	3	1	0	2	1	0	0	0	0	0	3	0	0	0	0
3:00	9	3	3	3	0	0	4	0	0	0	0	0	0	5	0	0	0	0
4:00	16	4	4	5	3	0	13	1	0	1	0	0	0	1	0	0	0	0
5:00	18	1	5	5	7	0	15	2	1	0	0	0	0	0	0	0	0	0
6:00	21	6	5	6	4	0	18	2	1	0	0	0	0	0	0	0	0	0
7:00	32	13	6	4	9	0	23	6	3	0	0	0	0	0	0	0	0	0
8:00	33	6	6	14	7	1	26	5	0	0	0	0	0	1	0	0	0	0
9:00	38	7	10	10	11	0	31	4	1	0	1	0	0	1	0	0	0	0
10:00	31	10	9	5	7	0	26	5	0	0	0	0	0	0	0	0	0	0
11:00	40	13	14	5	8	0	29	7	0	1	0	0	0	3	0	0	0	0
12:00	27	9	7	8	3	0	22	3	1	1	0	0	0	0	0	0	0	0
13:00	31	10	5	8	8	2	20	5	0	3	1	0	0	0	0	0	0	0
14:00	36	7	10	14	5	0	27	8	0	0	1	0	0	0	0	0	0	0
15:00	47	8	12	16	11	1	34	12	0	0	0	0	0	0	0	0	0	0
16:00	52	19	15	7	11	0	43	8	1	0	0	0	0	0	0	0	0	0
17:00	26	5	5	14	2	0	24	2	0	0	0	0	0	0	0	0	0	0
18:00	9	2	2	2	3	0	6	2	0	0	0	0	0	1	0	0	0	0
19:00	13	3	6	3	1	0	10	1	0	0	2	0	0	0	0	0	0	0
20:00	3	2	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0
21:00	3	0	1	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total:	496	Classifications Totals:				4	379	78	8	6	5	0	0	16	0	0	0	0
% of total:		0.8%	76.4%	15.7%	1.6%	1.2%	1.0%	0.0%	0.0%	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:	Volume	%	Volume	%	Volume	%	Volume	%
	65	13.1%	58	11.7%	78	15.7%	295	59.5%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Northbound Vehicle Classification and Volume*
 Date: **Thursday, December 8, 2022**

Vehicle Classifications:

Time:	0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	4	0	3	1	0	1	1	1	1	0	0	0	0	0	0	0	0
1:00	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
5:00	9	3	3	2	0	3	4	0	2	0	0	0	0	0	0	0	0
6:00	25	5	4	5	0	9	11	1	4	0	0	0	0	0	0	0	0
7:00	44	9	12	12	0	13	19	4	8	0	0	0	0	0	0	0	0
8:00	35	9	7	10	0	4	12	2	17	0	0	0	0	0	0	0	0
9:00	32	5	9	8	0	5	17	1	9	0	0	0	0	0	0	0	0
10:00	37	8	7	13	1	11	18	0	7	0	0	0	0	0	0	0	0
11:00	43	18	11	3	8	16	9	1	9	0	0	0	0	0	0	0	0
12:00	38	7	8	12	0	10	14	2	11	0	0	1	0	0	0	0	0
13:00	48	5	14	11	2	26	9	1	9	1	0	0	0	0	0	0	0
14:00	65	14	16	15	3	17	31	0	13	0	0	0	1	0	0	0	0
15:00	44	12	7	13	0	17	15	3	8	1	0	0	0	0	0	0	0
16:00	37	9	11	8	0	6	20	3	8	0	0	0	0	0	0	0	0
17:00	44	13	9	16	0	15	18	2	9	0	0	0	0	0	0	0	0
18:00	32	6	10	5	0	17	11	0	4	0	0	0	0	0	0	0	0
19:00	25	10	8	3	0	12	7	1	5	0	0	0	0	0	0	0	0
20:00	11	1	8	0	0	3	6	0	2	0	0	0	0	0	0	0	0
21:00	9	2	1	4	0	5	4	0	0	0	0	0	0	0	0	0	0
22:00	8	3	3	2	0	3	2	1	2	0	0	0	0	0	0	0	0
23:00	4	4	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
Total:	596	Classifications Totals:				14	196	230	23	129	2	0	1	1	0	0	0
% of total:		2.3%	32.9%	38.6%	3.9%	21.6%	0.3%	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
79	13.3%	86	14.4%	81	13.6%	350	58.7%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**

Description: *Southbound Vehicle Classification and Volume*

Date: **Thursday, December 8, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	2	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
1:00	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	4	1	1	1	1	0	3	0	0	0	0	0	0	1	0	0	0	0
4:00	12	4	2	6	0	0	7	3	0	2	0	0	0	0	0	0	0	0
5:00	18	4	5	6	3	0	13	2	1	1	0	0	0	1	0	0	0	0
6:00	22	6	4	8	4	0	20	2	0	0	0	0	0	0	0	0	0	0
7:00	29	6	10	7	6	0	20	5	2	0	1	0	0	1	0	0	0	0
8:00	31	6	8	8	9	3	24	3	1	0	0	0	0	0	0	0	0	0
9:00	44	17	11	11	5	1	34	8	0	1	0	0	0	0	0	0	0	0
10:00	38	12	9	8	9	0	28	8	0	2	0	0	0	0	0	0	0	0
11:00	41	6	15	11	9	1	32	8	0	0	0	0	0	0	0	0	0	0
12:00	34	7	7	13	7	0	27	6	0	1	0	0	0	0	0	0	0	0
13:00	39	12	8	7	12	1	29	8	0	1	0	0	0	0	0	0	0	0
14:00	38	5	8	10	15	0	27	9	1	1	0	0	0	0	0	0	0	0
15:00	40	9	8	13	10	0	36	2	1	0	0	0	1	0	0	0	0	0
16:00	44	13	10	13	8	0	34	8	0	2	0	0	0	0	0	0	0	0
17:00	32	6	6	15	5	0	27	5	0	0	0	0	0	0	0	0	0	0
18:00	17	7	1	4	5	0	15	2	0	0	0	0	0	0	0	0	0	0
19:00	8	2	2	1	3	0	6	2	0	0	0	0	0	0	0	0	0	0
20:00	6	2	1	2	1	0	5	0	1	0	0	0	0	0	0	0	0	0
21:00	2	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
22:00	2	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0
23:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Total:	505	Classifications Totals:				6	395	81	7	11	1	0	1	3	0	0	0	0
% of total:		1.2%	78.2%	16.0%	1.4%	2.2%	0.2%	0.0%	0.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
60	11.9%	73	14.5%	76	15.0%	296	58.6%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Northbound Vehicle Classification and Volume*
 Date: **Friday, December 9, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1:00	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	10	3	1	3	3	0	1	2	2	5	0	0	0	0	0	0	0	0
6:00	21	1	3	7	10	0	3	11	0	7	0	0	0	0	0	0	0	0
7:00	43	6	9	16	12	0	12	18	2	11	0	0	0	0	0	0	0	0
8:00	38	10	13	12	3	0	9	19	0	10	0	0	0	0	0	0	0	0
9:00	42	11	12	13	6	2	13	20	1	6	0	0	0	0	0	0	0	0
10:00	42	12	10	10	10	1	12	19	3	6	1	0	0	0	0	0	0	0
11:00	43	15	5	7	16	3	12	15	1	12	0	0	0	0	0	0	0	0
12:00	48	13	7	9	19	6	18	15	0	9	0	0	0	0	0	0	0	0
13:00	39	7	3	16	13	5	9	20	2	3	0	0	0	0	0	0	0	0
14:00	65	15	13	18	19	2	20	29	1	13	0	0	0	0	0	0	0	0
15:00	88	27	23	21	17	3	26	40	4	14	0	0	0	0	0	1	0	0
16:00	69	18	22	15	14	4	16	35	3	10	0	0	0	1	0	0	0	0
17:00	62	22	18	8	14	0	23	25	4	9	0	0	1	0	0	0	0	0
18:00	57	15	18	9	15	0	12	31	1	13	0	0	0	0	0	0	0	0
19:00	36	12	11	9	4	0	15	14	0	7	0	0	0	0	0	0	0	0
20:00	47	15	14	7	11	0	16	22	0	8	1	0	0	0	0	0	0	0
21:00	22	5	9	2	6	0	4	12	0	6	0	0	0	0	0	0	0	0
22:00	11	3	3	2	3	0	7	4	0	0	0	0	0	0	0	0	0	0
23:00	8	2	5	1	0	0	1	4	0	3	0	0	0	0	0	0	0	0
Total:	794	Classifications Totals:				26	231	355	24	153	2	0	1	1	0	1	0	0
% of total:		3.3%	29.1%	44.7%		3.0%	19.3%	0.3%	0.0%	0.1%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
81	10.2%	87	11.0%	131	16.5%	495	62.3%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers

11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

Linscott, Law & Greenspan, Engineers

4542 Ruffner Street, Suite 100, San Diego, CA 92111

Vehicle Classification Study

Location: **Montezuma Valley Rd (Borrego Highway)**
 Description: *Southbound Vehicle Classification and Volume*
 Date: **Friday, December 9, 2022**

Vehicle Classifications:

Time:		0:00	0:15	0:30	0:45	1	2	3	4	5	6	7	8	9	10	11	12	13
0:00	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1:00	3	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	2	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
4:00	9	3	5	1	0	0	8	0	0	1	0	0	0	0	0	0	0	0
5:00	9	5	1	3	0	0	7	1	1	0	0	0	0	0	0	0	0	0
6:00	7	3	0	2	2	0	7	0	0	0	0	0	0	0	0	0	0	0
7:00	25	7	5	9	4	0	21	4	0	0	0	0	0	0	0	0	0	0
8:00	32	8	8	6	10	0	24	7	0	1	0	0	0	0	0	0	0	0
9:00	39	7	11	8	13	0	33	6	0	0	0	0	0	0	0	0	0	0
10:00	37	7	9	9	12	0	25	9	0	0	2	0	0	1	0	0	0	0
11:00	46	14	17	7	8	4	35	5	0	2	0	0	0	0	0	0	0	0
12:00	45	13	8	12	12	6	32	7	0	0	0	0	0	0	0	0	0	0
13:00	43	10	10	4	19	8	28	4	2	1	0	0	0	0	0	0	0	0
14:00	53	13	17	11	12	0	44	9	0	0	0	0	0	0	0	0	0	0
15:00	35	7	7	14	7	1	30	3	0	1	0	0	0	0	0	0	0	0
16:00	41	11	9	11	10	0	33	6	1	1	0	0	0	0	0	0	0	0
17:00	41	13	10	8	10	0	35	6	0	0	0	0	0	0	0	0	0	0
18:00	11	5	1	3	2	0	9	2	0	0	0	0	0	0	0	0	0	0
19:00	10	5	3	1	1	0	10	0	0	0	0	0	0	0	0	0	0	0
20:00	11	2	6	3	0	0	10	1	0	0	0	0	0	0	0	0	0	0
21:00	5	1	2	0	2	0	5	0	0	0	0	0	0	0	0	0	0	0
22:00	2	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0
23:00	2	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Total:	509	Classifications Totals:				19	405	70	4	7	3	0	0	1	0	0	0	0
% of total:		3.7%	79.6%	13.8%	0.8%	1.4%	0.6%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Peak Periods:

AM 7-9

NOON 12-2

PM 4-6

OFF PEAK HOURS

All Vehicle Classes:

Volume	%	Volume	%	Volume	%	Volume	%
57	11.2%	88	17.3%	82	16.1%	282	55.4%

Vehicle Classification

Definitions:

1 - Motorcycles

2 - Passenger Cars

3 - 2-Axle, 4-Tire Single Units

4 - Buses

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

5 - 2-Axle, 6-Tire Single Units

6 - 3-Axle Single Units

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

7 - 4-Axle Single Units

8 - 4-Axle Single Trailers

9 - 5-Axle Single Trailers

10 - 6-Axle Single Trailers




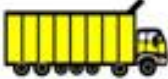












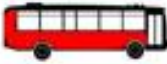













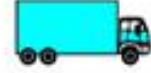



11 - 5-Axle Multi-Trailers

12 - 6-Axle Multi-Trailers

13 - 7-Axle Multi-Trailers

ATTACHMENT C
FHWA VEHICLE CATEGORY CLASSIFICATION

FHWA 13 VEHICLE CATEGORY CLASSIFICATION

Class 1 Motorcycles		Class 7 Four or more axle, single unit	
Class 2 Passenger cars		Class 8 Four or less axle, single trailer	
			
			
			
Class 3 Four tire, single unit		Class 9 5-Axle tractor semitrailer	
			
			
Class 4 Buses		Class 10 Six or more axle, single trailer	
		Class 11 Five or less axle, multi trailer	
			
Class 5 Two axle, six tire, single unit			
		Class 12 Six axle, multi-trailer	
		Class 13 Seven or more axle, multi-trailer	
Class 6 Three axle, single unit			
			
			

Source: Federal Highway Administration

ATTACHMENT D

DESIGN VEHICLES

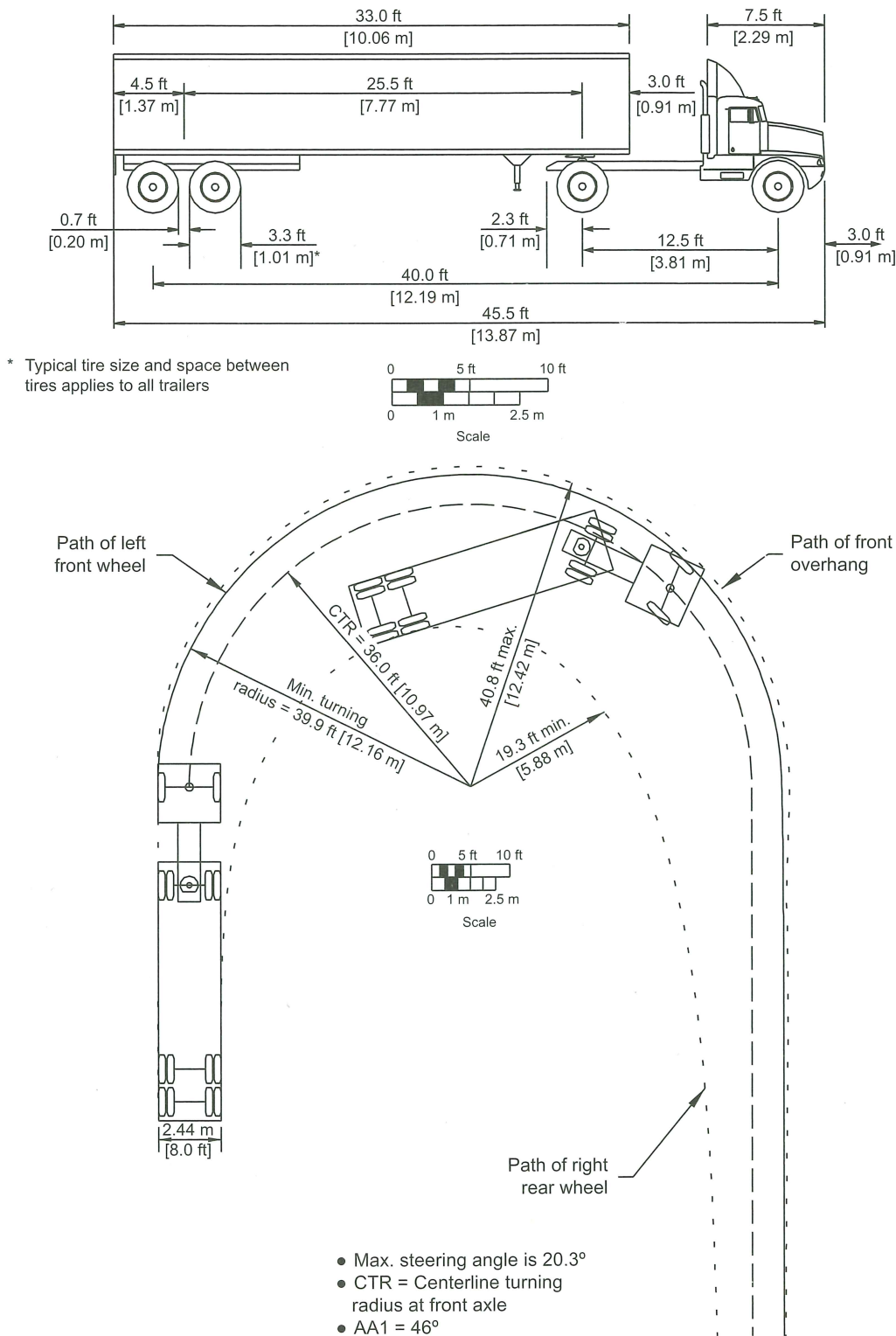


Figure 2-22. Minimum Turning Path for Intermediate Semitrailer (WB-40 [WB-12]) Design Vehicle

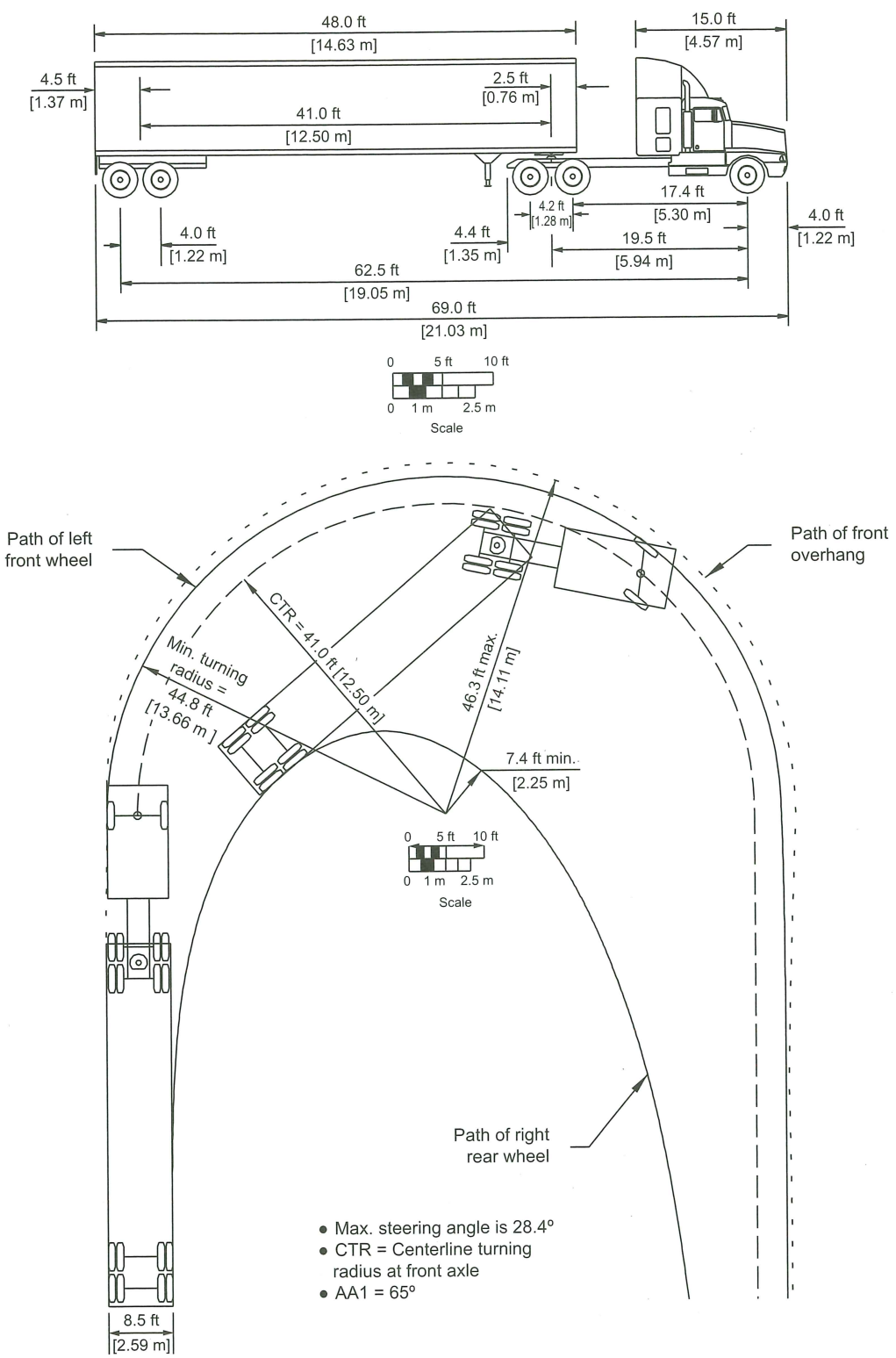
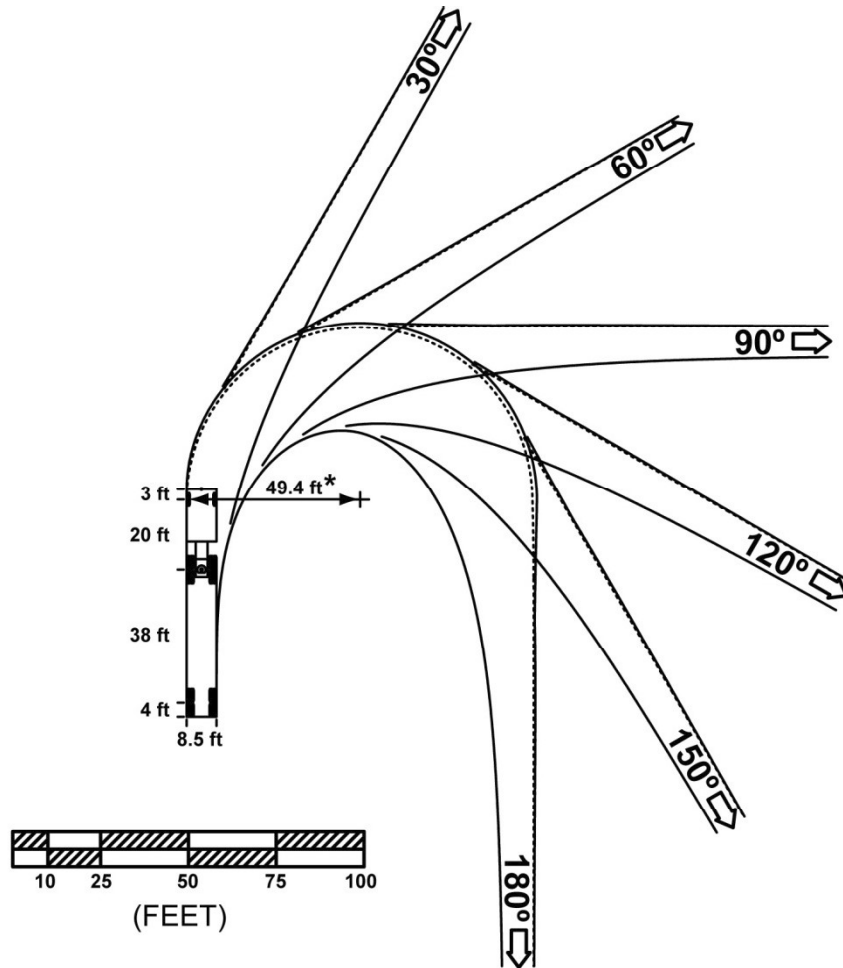


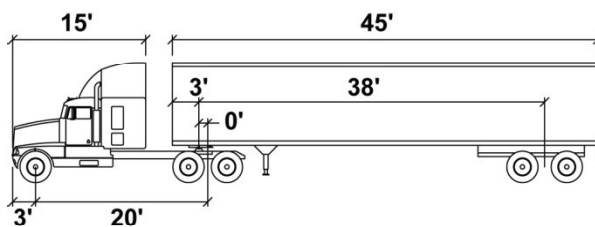
Figure 2-23. Minimum Turning Path for Interstate Semitrailer (WB-62 [WB-19]) Design Vehicle

Figure 404.5C

California Legal Design Vehicle 50-Foot Radius



* Radius to outside wheel
at beginning of curve.



LEGEND

—	Swept Width (Body)
- - - - -	Tracking Width (Tires)

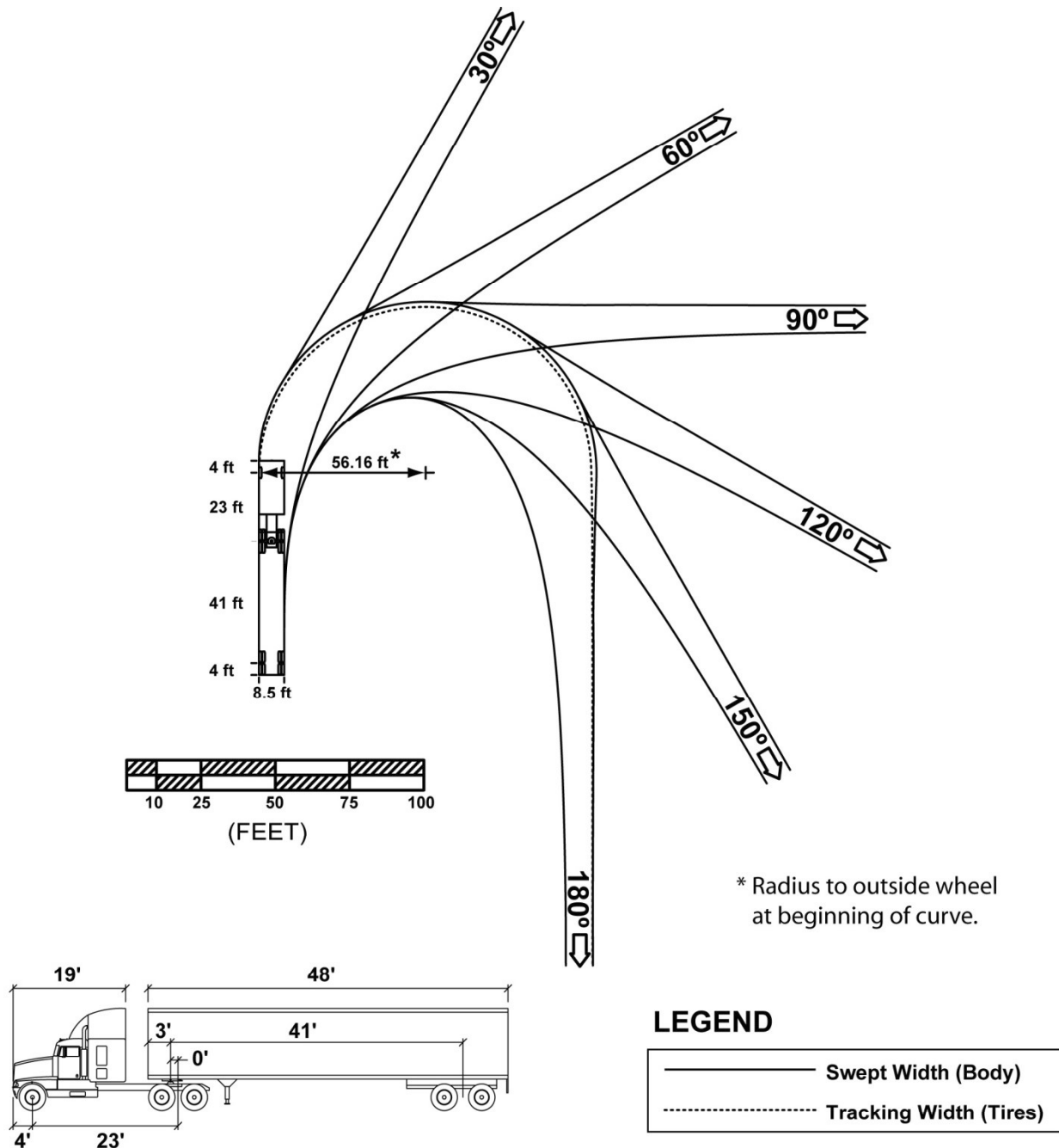
CA LEGAL - 65 FT

Tractor Width	: 8.5'	Lock to Lock Time	: 6 seconds
Trailer Width	: 8.5'	Steering Lock Angle	: 26.3 degrees
Tractor Track	: 8.5'	Articulating Angle	: 70 degrees
Trailer Track	: 8.5'		

Note: For definitions, see
Indexes 404.1 and 404.5.

Figure 404.5A

STAA Design Vehicle 56-Foot Radius



STAA - STANDARD

Tractor Width	: 8.5'	Lock to Lock Time	: 6 seconds
Trailer Width	: 8.5'	Steering Lock Angle	: 26.3 degrees
Tractor Track	: 8.5'	Articulating Angle	: 70 degrees
Trailer Track	: 8.5'		

Note: For definitions, see
Indexes 404.1 and 404.5.