



# SPEED LIMITS

## ENGINEERING & TRAFFIC SURVEYS



JULY 2019



# City of San Clemente Engineering Division

Nestor Mangohig, Senior Civil Engineer  
Phone: (949) 361-6114 Fax: (949) 361-8316

## CERTIFICATION

This report constitutes an Engineering and Traffic Survey of speed limits within the City of San Clemente. The existing speed limits were reviewed for adequacy in terms of adjacent land use, functional classification, traffic demands, roadway design, speed surveys along individual roadways and speed limit continuity with neighboring jurisdictions. Traffic and roadside conditions not readily apparent to the motorists were also considered.

Data collection techniques are in compliance with Division 1, Section 627 and Division 17, Section 40802 (b) of the California Vehicle Code. The following reference materials were also used in the preparation of this Traffic and Engineering Survey:

1. CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2014 Edition – State of California, Department of Transportation, Sacramento, California.
2. CALIFORNIA VEHICLE CODE, 2019 Edition – California Department of Motor Vehicles, Sacramento, California.
1. COLLISION DATA ON CALIFORNIA STATE HIGHWAYS, 2018 Edition – California Department of Transportation, Sacramento, California.
2. HIGHWAY DESIGN MANUAL, 6<sup>th</sup> Edition – California Department of Transportation, Sacramento, California.

Locations, dates of study and pertinent background information are included in the full report. All data utilized in this report is on file in the Public Works Department, City of San Clemente, 910 Calle Negocio, California 92673.

This document has been prepared by the City of San Clemente, Engineering Division.

I, Nestor Mangohig, do hereby certify that I am a Registered Civil and Traffic Engineer in the State of California. The study and report were prepared under my supervision. Its contents are true and accurate to the best of my knowledge.

July 8, 2019

Nestor Mangohig, PE, TE, PTOE  
Civil Eng. No. 71275; Traffic Eng. No. 2075

**CITY OF SAN CLEMENTE**  
CITYWIDE SPEED LIMITS

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY  
Updated July 2019

E&T Page No.	Location	ADT <sup>1</sup>	Posted Speed Limit	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit	Change
1	<b>Acapulco, Avenida</b> Avenida San Pablo to Avenida San Pablo	1,500	35 mph	12/21/18	31 mph	35 mph	<b>35 mph</b>	No
2	<b>Aguila, Calle</b> Avenida Vista Montana to Calle Pastadero	3,100	30 mph	12/3/18	28 mph	32 mph	<b>30 mph</b>	No
3	<b>Altea, Calle</b> Camino La Pedriza to Terminus	3,100	35 mph	12/27/18	32 mph	37 mph	<b>35 mph</b>	No
4	<b>Amanecer, Calle</b> Avenida Pico to Avenida La Pata	16,300	35 mph	12/3/18	32 mph	36 mph	<b>35 mph</b>	No
5	<b>Califia, Avenida</b> Avenida Del Presidente to terminus	4,100	25 mph	12/17/18	25 mph	29 mph	<b>25 mph</b>	No
6	<b>Capistrano, Camino</b> El Camino Real (Pacific Coast Highway) to North City Limit	7,700	35 mph	11/28/18	29 mph	32 mph	<b>30 mph</b>	Yes
7	<b>Cerro, Del Calle</b> Avenida Pico to Avenida Vista Montana (west)	9,400	40 mph	12/3/18	32 mph	37 mph	<b>35 mph</b>	Yes
8	<b>Cerro, Del Calle</b> Avenida Vista Montana (west) to Avenida La Pata	8,300	35 mph	12/18/18	36 mph	40 mph	<b>35 mph</b>	No
9	<b>Del Rio, Camino</b> Camino De Los Mares to Legendario	7,400	40 mph	11/28/18	43 mph	47 mph	<b>40 mph</b>	No
10	Legendario to Precipicio	6,800		11/28/18	41 mph	45 mph		
11	Precipicio to Avenida La Pata	6,400		12/28/18	43 mph	47 mph		
12	<b>El Camino Real (Pacific Coast Highway)</b> Camino Capistrano to Avenida Estacion	15,400	45 mph	2/25/19	40 mph	44 mph	<b>45 mph</b>	No
13	<b>El Camino Real</b> Avenida Estacion to Calle De Los Molinos	15,600	35 mph	12/3/18	30 mph	35 mph	<b>35 mph</b>	No
14	Calle De Los Molinos to El Portal	14,100		12/3/18	30 mph	34 mph		
15	<b>El Camino Real</b> El Portal to Avenida Palizada	13,300	30 mph	12/20/18	31 mph	34 mph	<b>30 mph</b>	No
16	Avenida Palizada to Avenida Presidio	14,300		2/19/19	28 mph	31 mph		
17	Avenida Presidio to Avenida Valencia	16,000		12/20/18	31 mph	35 mph		
18	<b>El Camino Real</b> Avenida Valencia to Del Comercio	11,200	35 mph	12/20/18	35 mph	39 mph	<b>35 mph</b>	No
19	Del Comercio to South City Limit	3,300		3/13/19	37 mph	41 mph		
20	<b>El Portal, East</b> El Camino Real to Avenida de La Estrella	3,000	25 mph	12/20/18	28 mph	31 mph	<b>25 mph</b>	No

<sup>1</sup>ADT - Average Daily Traffic from 2018-2019

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21	<b>Estrella, Avenida De La</b> Avenida Presidio to East El Portal	6,830	25 mph	11/30/18	26 mph	31 mph	<b>25 mph</b>	No
22	<b>Estrella, Camino de</b> Interstate 5 to West City Limit	10,600	35 mph	11/30/18	35 mph	40 mph	<b>35 mph</b>	No
23	<b>Faro, Camino</b> Calle Frontera to Avenida Vista Hermosa	1,600	25 mph	12/10/18	25 mph	29 mph	<b>25 mph</b>	No
24	<b>Fresas, Avenida (CVC Private Street)</b> Calle Saluda to Calle Gaulteria	2,700	35 mph	11/26/18	35 mph	38 mph	<b>35 mph</b>	No
25	<b>Frontera, Calle</b> Avenida Pico to 600' s/o Cuadra	4,800	30 mph	11/28/18	32 mph	35 mph	<b>30 mph</b>	No
26	<b>Frontera, Calle</b> ~600' S. of Calle Cuadra to Calle Vallarta	3,100	25 mph	2/26/19	24 mph	26 mph	<b>25 mph</b>	No
27 28	<b>Fuerte, Camino Viente (CVC Private Street)</b> Avenida Talega west to Via Agradar Via Agradar to Avenida Talega east	3,600 1,300	35 mph	11/26/18 12/11/18	37 mph 30 mph	41 mph 34 mph	<b>35 mph</b>	No
29 30	<b>Grande, Camino Tierra (CVC Private Street)</b> Avenida Talega to Via Timon Via Timon to Camino Viento Fuerte	2,900 1,400	35 mph	11/26/18 12/11/18	36 mph 31 mph	39 mph 34 mph	<b>35 mph</b>	No
31	<b>Guadalajara, Calle</b> Calle Nuevo to Avenida Vaquero	1,800	25 mph	3/25/19	29 mph	32 mph	<b>25 mph</b>	No
32 33	<b>Hermosa West, Avenida Vista</b> Avenida Costa Azul to Avenida Pico (west) I-5 Southbound Off-ramp to Avenida Costa Azul	10,000 17,800	40 mph	11/27/18 11/27/18	36 mph 38 mph	40 mph 41 mph	<b>40 mph</b>	No
34 35	<b>Hermosa, Avenida Vista</b> I-5 Southbound Off-ramp to Via Turqueza Via Turqueza to Camino Vera Cruz	33,000 21,300	40 mph 40 mph	11/28/18 11/28/18	41 mph 41 mph	46 mph 46 mph	<b>40 mph</b>	No
36 37	<b>Hermosa, Avenida Vista</b> Camino Vera Cruz to Avenida La Pata Avenida La Pata to Avenida Pico	24,600 24,500	45 mph 45 mph	11/28/18 11/28/18	41 mph 45 mph	47 mph 49 mph	<b>45 mph</b>	No
38	<b>La Pata, Avenida</b> Camino Del Rio to County of Orange Limit Line	16,300	55 mph	11/26/18	48 mph	53 mph	<b>55 mph</b>	No

<sup>1</sup>ADT - Average Daily Traffic from 2018-2019

**CITY OF SAN CLEMENTE**  
CITYWIDE SPEED LIMITS

SUMMARY OF ENGINEERING AND TRAFFIC SURVEY  
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E&T Page No.	Location	ADT <sup>1</sup>	Posted Speed Limit	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit	Change
39	<b>La Pata, Avenida</b> Camino Del Rio to Calle Saluda	24,400		11/30/18	47 mph	50 mph	<b>45 mph</b>	No
40	Calle Saluda to Avenida Vista Hermosa	32,500	45 mph	11/30/18	46 mph	50 mph		
41	Avenida Vista Hermosa to Avenida Pico	24,800		2/20/19	44 mph	48 mph		
42	Avenida Pico to Calle Del Cerro	11,300		11/30/18	45 mph	50 mph		
43	Calle Del Cerro to South City Limit	5,500		11/30/18	43 mph	49 mph		
44	<b>La Pedriza, Camino</b> Avenida Vista Hermosa to Via Amor	7,800		40 mph	11/27/18	39 mph	42 mph	<b>40 mph</b>
45	Via Amor to Avenida Pico	4,000	11/27/18		40 mph	45 mph		
46	<b>Mares, Camino De Los</b> Interstate 5 to Avenida Vaquero	37,000	35 mph	12/7/18	30 mph	34 mph	<b>35 mph</b>	No
47	<b>Mares, Camino De Los</b> Avenida Vaquero to Camino Vera Cruz	19,000	45 mph	12/4/18	46 mph	49 mph	<b>45 mph</b>	No
48	Camino Vera Cruz to East City Limit	5,000		11/26/18	44 mph	48 mph		
49	<b>Mira Costa, Camino</b> Camino Capistrano to Camino De Estrella	6,500	35 mph	11/28/18	36 mph	40 mph	<b>35 mph</b>	No
50	<b>Montana, Avenida Vista</b> Calle Del Cerro to Calle Del Cerro	5,000	35 mph	12/18/18	37 mph	41 mph	<b>35 mph</b>	No
51	<b>Negocio, Calle</b> Calle Amanecer to its terminus	5,700	35 mph	12/18/18	30 mph	33 mph	<b>35 mph</b>	No
52	<b>Ola Vista, South</b> Avenida Del Mar to Avenida Valencia	3,500	25 mph	12/19/18	28 mph	30 mph	<b>25 mph</b>	No
53	Avenida Valencia to Avenida Califia	2,000		12/19/18	28 mph	30 mph		
54	<b>Pastadero, Calle</b> Avenida Vista Montana to its terminus	700	30 mph	12/18/18	34 mph	37 mph	<b>30 mph</b>	No
55	<b>Pico, Avenida</b> El Camino Real to Calle De Los Molinos	12,000	35 mph	11/30/18	28 mph	34 mph	<b>35 mph</b>	No
56	Calle De Los Molinos to Cale Frontera / Avenida Presidio	46,000		11/30/18	31 mph	37 mph		
57	<b>Pico, Avenida</b> Calle Frontera/Avenida Presidio to Amanecer	43,300	45 mph	2/20/19	47 mph	51 mph	<b>45 mph</b>	No
58	Calle Amanecer to Avenida La Pata	29,000		2/20/19	44 mph	47 mph		
59	<b>Pico, Avenida</b> Avenida La Pata to Avenida Vista Hermosa	21,200	50 mph	2/20/19	45 mph	50 mph	<b>50 mph</b>	No
60	Avenida Vista Hermosa to East City Limit	12,600		11/30/18	42 mph	49 mph		
61	<b>Portico Del Sur / Norte</b> Camino de Los Mares to Camino de Los Mares	2,200	35 mph	12/10/18	38 mph	42 mph	<b>35 mph</b>	No

<sup>1</sup>ADT - Average Daily Traffic from 2018-2019

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E&T Page No.	Location	ADT <sup>1</sup>	Posted Speed Limit	Date of Survey	Average Speed	85th Percentile Speed	Recommended Speed Limit	Change
62 63	<b>Presidente, Avenida Del</b> Avenida Valencia to Avenida Califia Avenida Califia to Cristianitos Road	3,500 5,100	30 mph	2/19/19 12/19/18	33 mph 30 mph	37 mph 34 mph	<b>30 mph</b>	No
64 65	<b>Presidio, Avenida</b> El Camino Real to Calle Escuela Calle Escuela to Avenida Pico	2,200 8,500	25 mph	3/13/19 12/18/18	31 mph 27 mph	32 mph 30 mph	<b>25 mph</b>	No
66	<b>Puerta del Sol / Hermosa, Avenida Vista</b> Avenida Pico to Avenida Pico	3,500	30 mph	2/20/19	29 mph	33 mph	<b>30 mph</b>	No
67 68	<b>Saluda, Calle</b> Avenida La Pata to Avenida Fresas Avenida Fresas to Avenida Talega	8,400 5,100	35 mph	3/19/19 12/4/18	38 mph 31 mph	40 mph 36 mph	<b>35 mph</b>	No
69	<b>Salvador, Avenida</b> Avenida Presidio to Avenida San Pablo	1,600	25 mph	12/17/18	28 mph	32 mph	<b>25 mph</b>	No
70	<b>San Pablo, Avenida</b> San Gabriel to Avenida Acapulco	3,500	25 mph	12/19/18	26 mph	28 mph	<b>25 mph</b>	No
71	<b>San Pablo, Avenida</b> Avenida Acapulco to northerly terminus	1,500	35 mph	2/26/19	36 mph	41 mph	<b>35 mph</b>	No
72	<b>Sarmentoso, Calle</b> Camino Vera Cruz to Camino Del Rio	5,200	30 mph	3/19/19	35 mph	37 mph	<b>30 mph</b>	No
73	<b>Talega, Avenida</b> Avenida Vista Hermosa to Calle Saluda	9,800	35 mph	12/4/18	30 mph	35 mph	<b>35 mph</b>	No
74	<b>Talega, Avenida</b> Calle Saluda to East City Limit	9,600	40 mph	12/4/18	41 mph	46 mph	<b>40 mph</b>	No
75 76 77	<b>Vaquero, Avenida</b> Camino De Los Mares to Calle Guadalajara Calle Guadalajara to Calle Vista Torito Calle Vista Torito to Camino Capistrano	6,200 3,800 10,600	30 mph	11/27/18 2/25/19 11/27/18	30 mph 34 mph 31 mph	35 mph 37 mph 35 mph	<b>30 mph</b>	No
78 79	<b>Vera Cruz, Camino</b> Avenida Pico to Avenida Vista Hermosa Avenida Vista Hermosa to Via Blanco	11,250 10,800	40 mph	11/26/18 11/26/18	36 mph 38 mph	40 mph 43 mph	<b>40 mph</b>	No
80	<b>Vera Cruz, Camino</b> Via Blanco to Camino De Los Mares	9,900	35 mph	12/7/18	35 mph	39 mph	<b>35 mph</b>	No

<sup>1</sup>ADT - Average Daily Traffic from 2018-2019



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/21/18 TIME START: 1:00PM TIME STOP: 4:00PM  
 DAY OF WEEK: Friday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38			0	0%	100%
37		X X X X X X X	7	7%	100%*
36	X X X X X X X	X X X X	11	10%	93%*
35	X X X X X	X X X X X	10	9%	83%*
34	X X X X	X X X X X X	10	9%	74%*
33	X X X X	X X X X X	9	8%	64%*
32	X X X	X X X X X X X	10	9%	56%*
31	X X X	X X X X X X X	10	9%	46%*
30	X X X	X X X X	7	7%	37%*
29	X X X X	X X X X X X	10	9%	30%*
28	X X X		3	3%	21%*
27	X X X X	X	5	5%	18%*
26	X X X X X		5	5%	13%*
25	X X		2	2%	8%*
24		X X X	3	3%	7%*
23	X		1	1%	4%*
22			0	0%	3%*
21	X		1	1%	3%*
20		X	1	1%	2%*
19			0	0%	1%*
18			0	0%	1%*
17	X		1	1%	1%*
16			0	0%	0%*
15			0	0%	0%*
<b>TOTAL NUMBER OF VEHICLES = 106</b>			<b>106</b>	<b>100%</b>	

**LOCATION:** AVENIDA ACAPULCO  
N. Avenida San Pablo to S. Avenida San Pablo

**ROAD CHARACTERISTICS:**  
 Width: 40 ft. Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: stop sign at Ave. San Pablo

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 1,500 **SEGMENT LENGTH (ft):** 5,584

**ACCIDENTS 3-YR TOTAL:** 0 **ACCIDENT RATE:** 0.00 accidents per million  
 (1/1/2015 - 12/31/2018) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>35</u>	<b>M.P.H.</b>	<b>10 MPH PACE:</b>	<u>29 - 37</u>	<b>M.P.H.</b>
<b>50TH %:</b>	<u>31</u>	<b>M.P.H.</b>	<b>% IN PACE:</b>	<u>79%</u>	
<b>15TH %:</b>	<u>26</u>	<b>M.P.H.</b>	<b>% OVER PACE:</b>	<u>0%</u>	
<b>AVERAGE SPEED:</b>	<u>31</u>	<b>M.P.H.</b>	<b>% UNDER PACE:</b>	<u>21%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/21/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/3/18 TIME START: 1:30PM TIME STOP: 3:00PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	BOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40		X	1	1%	100%
39	X		1	1%	99%
38			0	0%	98%
37			0	0%	98%
36	X	X X	3	3%	98%
35	X	X X	3	3%	95%
34	X X X X X	X	6	6%	92%
33	X X	X	3	3%	86%
32	X X X	X X	5	5%	83%
31	X X X X	X X	6	6%	78%
30	X X X	X X X X X	8	8%	72%
29	X X	X X	4	4%	64%
28	X X X X	X	5	5%	60%
27	X X X X	X X X	7	7%	55%
26	X X X X X X X X X X	X X X X X	15	15%	48%
25	X X	X X X	5	5%	33%
24	X	X X X X	5	5%	28%
23	X X X	X X X X	7	7%	23%
22	X X X	X X X X X X	9	9%	16%
21		X X X	3	3%	7%
20		X X X	3	3%	4%
19			0	0%	1%
18			0	0%	1%
17			0	0%	1%
16	X		1	1%	1%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 100			100	100%	

**LOCATION:** CALLE AGUILA  
Avenida Vista Montana to Calle Pastadero

**ROAD CHARACTERISTICS:**  
 Width: 40 ft. Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 31 mph Crosswalks: yes  
 Vertical Alignment Design Speed: 37 mph Traffic Controls: stop sign at Ave. Vista Montana and Cl. Pastadero

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium  
high (during school hours)

**AVERAGE DAILY TRAFFIC:** 3,100 **SEGMENT LENGTH (ft):** 1,600

**ACCIDENTS 3-YR TOTAL:** 1 **ACCIDENT RATE:** 0.97 accidents per million  
 (1/1/2015 - 12/31/2018) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	<u>32</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>22 - 31</u>	<b>MPH</b>
<b>50TH %:</b>	<u>26</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>71%</u>	
<b>15TH %:</b>	<u>22</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>22%</u>	
<b>AVERAGE SPEED:</b>	<u>28</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>7%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 30 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER C.V.C. 40802, SURVEY EXPIRES:** 12/3/2023

\* P A C E \*





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/18 TIME START: 3:00 PM TIME STOP: 4:00 PM  
 DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45	X X		2	2%	100%
44	X		1	1%	98%
43			0	0%	97%
42			0	0%	97%
41	X X X		3	3%	97%
40	X X X	X	3	3%	94%
39	X X X	X	4	4%	91%
38	X	X X X	4	4%	87%
37	X X	X	3	3%	83%
36	X	X	2	2%	80%
35	X X X X	X X X X X	9	9%	78%
34	X X X X X X X	X X X X	11	11%	69%
33	X X X X X	X X	7	7%	58%
32	X X X X	X X X X	8	8%	51%
31	X X X X	X X X	7	7%	43%
30	X X X X	X X X X	8	8%	36%
29	X X	X X X X X	7	7%	28%
28	X	X X X X	5	5%	21%
27	X X	X X X X	6	6%	16%
26	X X	X X X	5	5%	10%
25		X	1	1%	5%
24		X	1	1%	4%
23			0	0%	3%
22			0	0%	3%
21			0	0%	3%
20			0	0%	3%
19		X	1	1%	3%
18	X		1	1%	2%
17		X	1	1%	1%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 100			100	100%	

LOCATION: CALLE ALTEA  
Camino La Pedriza to Terminus

ROAD CHARACTERISTICS:  
 Width: 40 ft. Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 50 MPH Traffic Controls: Stop sign and crosswalk on Altea at Camino Pedriza, Neighborhood Park

ROADWAY CONDITIONS:  
 Lateral Visibility: fair Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 3,100 SEGMENT LENGTH (ft): 3,230

ACCIDENTS 3-YR TOTAL: 3 ACCIDENT RATE: 1.44 accidents per million  
 (1/1/2015 - 12/31/2018) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

85TH %:	<u>37</u> MPH	10 MPH PACE:	<u>26 - 35</u> MPH
50TH %:	<u>32</u> MPH	% IN PACE:	<u>73%</u>
15TH %:	<u>27</u> MPH	% OVER PACE:	<u>22%</u>
AVERAGE SPEED:	<u>32</u> MPH	% UNDER PACE:	<u>5%</u>

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/3/18 TIME START: 3:00PM TIME STOP: 4:00PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45		X	1	0%	100%
44		X	1	0%	100%
43	X X	X	3	1%	99%
42	X X X X		4	2%	98%
41		X	1	0%	96%
40		X X X X X X X	7	3%	96%
39		X X X X	4	2%	92%
38		X X X X X X X X	8	4%	91%
37	X X X X X X X	X X X X X X X	13	6%	87%
36	X X X X X X X X X	X X X X X X X X X	15	7%	81%
35	X X X X X	X X X X X X X	11	5%	75%
34	X X	X X X X X X X X X X X	14	6%	70%
33	X X X X	X X X X X X X X X X X	16	7%	64%
32	X X X X X X X X X X	X X X X X X X X X X X	21	9%	56%
31		X X X X X X X X X X X X	13	6%	47%
30	X X X X X X X X	X X X X X X X X X X	17	8%	41%
29	X X X X X X X X X X X	X X X X X X X X	19	8%	34%
28	X X X X X X X	X X X X X X X X X X X X	19	8%	25%
27	X X X	X	4	2%	17%
26	X	X X X X X X X X X X	11	5%	15%
25	X X X X X X X X X	X X X X	12	5%	10%
24	X	X X X	4	2%	5%
23		X X	2	1%	3%
22	X		1	0%	2%
21		X	1	0%	2%
20		X	1	0%	1%
19		X X	2	1%	1%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 225			<b>225</b>	<b>100%</b>	

**LOCATION:** CALLE AMANECER  
Avenida Pico to Avenida La Pata

**ROAD CHARACTERISTICS:**  
 Width: 44 ft. Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: no  
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: signalized at Ave. Pico, Ave. La Pata, and Cl. Negocio

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 16,300 **SEGMENT LENGTH (ft):** 5,540

**ACCIDENTS 3-YR TOTAL:** 4 **ACCIDENT RATE:** 0.21 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>36</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>28 - 37</u>	<b>MPH</b>
<b>50TH %:</b>	<u>31</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>70%</u>	
<b>15TH %:</b>	<u>26</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>13%</u>	
<b>AVERAGE SPEED:</b>	<u>32</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>17%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/3/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/17/18 TIME START: 9:30AM TIME STOP: 10:30AM

DAY OF WEEK: Monday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39	X		1	1%	100%
38			0	0%	99%
37			0	0%	99%
36			0	0%	99%
35		X X	2	2%	99%
34			0	0%	97%
33			0	0%	97%
32			0	0%	97%
31	X	X X X X X X X X	9	9%	97%
30	X X X	X X	5	5%	88%
29	X X	X X X X X X X X X X X	14	14%	83%
28	X	X X X X X X	7	7%	69%
27		X X X	3	3%	62%
26	X X X X X	X X X X	9	9%	59%
25	X X		2	2%	50%
24	X X X X X X X X X X		10	10%	49%
23		X X	2	2%	39%
22	X X X X	X X	6	6%	37%
21	X X X	X X X	6	6%	31%
20	X X	X X	4	4%	25%
19	X X X X		4	4%	21%
18	X X X X		4	4%	17%
17	X X X X X X X X X X X		11	11%	13%
16	X		1	1%	2%
15	X		1	1%	1%
TOTAL NUMBER OF VEHICLES = 101			101	100%	

LOCATION: AVENIDA CALIFIA  
Avenida Del Presidente to terminus

**ROAD CHARACTERISTICS:**

Width: 40-60 ft. Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 25 mph Crosswalks: no  
 Vertical Alignment Design Speed: 25 mph Traffic Controls: stop sign at Ave. Del Presidente

**ROADWAY CONDITIONS:**

Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:**

4,100

**SEGMENT LENGTH (ft):** 1,500

**ACCIDENTS 3-YR TOTAL:**

1

(1/1/2015 - 12/31/2017)

**ACCIDENT RATE:**

0.78

accidents per million vehicles miles  
 Avg. Accident Rate in District 12: 1.10

**EXISTING SPEED LIMIT:**

25 MPH

**APPROVED SPEED LIMIT:** 25 MPH

**85TH %:** 29 **MPH**

**10 MPH PACE:** 22 - 31 MPH

**50TH %:** 25 MPH

**% IN PACE:** 66%

**15TH %:** 17 MPH

**% OVER PACE:** 3%

**AVERAGE SPEED:** 25 MPH

**% UNDER PACE:** 31%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.

**STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/17/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/28/18 TIME START: 2:00PM TIME STOP: 3:00PM  
 DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45		X	1	1%	100%
44			0	0%	99%
43			0	0%	99%
42			0	0%	99%
41	X		1	1%	99%
40			0	0%	99%
39		X	1	1%	99%
38			0	0%	98%
37		X	1	1%	98%
36	X X X X	X X	6	4%	97%
35	X	X X X X	5	4%	93%
34	X X	X	3	2%	89%
33	X	X X X	4	3%	87%
32	X X X	X X X	6	4%	84%
31	X X X X X	X X X X X X	12	9%	80%
30	X X X X X X	X X X X X X X X X X	18	13%	72%
29	X X X X X X	X X X X X X X X X X	18	13%	59%
28	X	X X X X X X X	9	6%	46%
27	X X X X X X X	X X X X X X X X X X	19	13%	40%
26	X X X X X	X X X X X X X	13	9%	26%
25	X X X X	X X X X	8	6%	17%
24	X X	X X X	5	4%	11%
23		X X X X	4	3%	8%
22		X X X X	4	3%	5%
21		X	1	1%	2%
20		X	1	1%	1%
19			0	0%	1%
18			0	0%	1%
17		X	1	1%	1%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 141</b>			<b>141</b>	<b>100%</b>	

**LOCATION:** CAMINO CAPISTRANO  
El Camino Real (Pacific Coast Highway) to North City Limit

**ROAD CHARACTERISTICS:**  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: traffic signal at El Camino Real & Ave. Vaquero

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 7,700 **SEGMENT LENGTH (ft):** 3,120

**ACCIDENTS 3-YR TOTAL:** 8 **ACCIDENT RATE:** 1.61 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	<u>32</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>24 - 33</u>	<b>MPH</b>
<b>50TH %:</b>	<u>28</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>79%</u>	
<b>15TH %:</b>	<u>24</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>13%</u>	
<b>AVERAGE SPEED:</b>	<u>29</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>8%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 30 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/28/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/3/18 TIME START: 12:30PM TIME STOP: 1:30PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44		X X	2	1%	100%
43			0	0%	99%
42			0	0%	99%
41		X X X X X X X	7	3%	99%
40		X X X X X X X X X X	11	5%	96%
39		X X X X X X X X	8	3%	92%
38		X X X X X X X X X X X X	14	6%	88%
37		X X X X X X X	7	3%	82%
36		X X X X X X X X X X X X	14	6%	79%
35	X X	X	3	1%	74%
34	X X X X X X X X	X X X X X X X X X X X X X	22	9%	72%
33	X X X X	X X X X X X X X X X	15	6%	63%
32	X X X	X X X X X X X X	11	5%	57%
31	X X X X X X X X X X X X X		13	5%	52%
30	X X X X X X X X X X X X X X	X	20	8%	47%
29	X X X X X X X X X X X X X X	X X	27	11%	38%
28	X X X X X X X X X X X X X X	X X X X	28	12%	27%
27	X X X X X X X X	X	9	4%	15%
26	X X X X X X X X	X X	11	5%	11%
25	X X X X X X X X X X X X X X		14	6%	7%
24			0	0%	1%
23	X X		2	1%	1%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 238			238	100%	

**LOCATION:** CALLE DEL CERRO  
Avenida Pico to Avenida Vista Montana (west)

**ROAD CHARACTERISTICS:**  
 Width (ft): 58 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: traffic signal lights at Ave Pico and Vista Montana (westerly intersection)

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 9,400 **SEGMENT LENGTH (ft):** 2,309

**ACCIDENTS 3-YR TOTAL:** 8 **ACCIDENT RATE:** 1.78 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 40 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>37</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>25 - 34</u>	<b>MPH</b>
<b>50TH %:</b>	<u>30</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>71%</u>	
<b>15TH %:</b>	<u>27</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>28%</u>	
<b>AVERAGE SPEED:</b>	<u>32</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>1%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/3/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/18/18 TIME START: 1:00PM TIME STOP: 1:45PM

DAY OF WEEK: Tuesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49	X		1	1%	100%
48			0	0%	100%
47	X X X		3	2%	100%
46	X		1	1%	98%
45	X X X		3	2%	98%
44	X X X X		4	2%	96%
43	X X X X	X	5	3%	94%
42	X X X	X X X X X X	9	5%	92%
41	X X X X X X X	X X	9	5%	87%
40	X X X	X X X X X	8	4%	83%*
39	X X X X X X	X X X X X X X X	14	7%	79%*
38	X X X X X X X	X X X X X X X X	15	8%	72%*
37	X X X X X X X	X X X	10	5%	64%* P
36	X X X X X X X X	X X X X	12	6%	59%* A
35	X X X X X X X X X	X X X X X X X X X X X	20	10%	53%* C
34	X X X X	X X X X X X X X X X X X	17	9%	43%* E
33	X X X X X X X	X X X X X X X X	15	8%	35%*
32	X X X X X	X X X X	9	5%	27%*
31	X X X X	X X X X X X X X	12	6%	23%*
30	X X	X X X	5	3%	17%*
29	X X X X	X X X X X X	10	5%	14%*
28	X X X X	X X X X X X X	11	6%	9%*
27	X X X		3	2%	4%*
26		X	1	1%	2%*
25	X	X	2	1%	2%*
24		X	1	1%	1%*
23			0	0%	0%*
22			0	0%	0%*
21			0	0%	0%*
20			0	0%	0%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
TOTAL NUMBER OF VEHICLES = 200			200	100%	

**LOCATION:** CALLE DEL CERRO  
Avenida Vista Montana (west) to Avenida La Pata

**ROAD CHARACTERISTICS:**  
 Width (ft): 48 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Traffic signal light at the intersection with Vista Montana west; stop sign at Avenida La Pata.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 8,300 **SEGMENT LENGTH (ft):** 5,765

**ACCIDENTS 3-YR TOTAL:** 4 **ACCIDENT RATE:** 0.40 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>40</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>31 - 40</u>	<b>MPH</b>
<b>50TH %:</b>	<u>34</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>66%</u>	
<b>15TH %:</b>	<u>29</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>18%</u>	
<b>AVERAGE SPEED:</b>	<u>36</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>17%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street geometrics with rolling grades, limited line of sight and residential communities on both sides of the street, a speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/18/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/28/18 TIME START: 11:15AM TIME STOP: 12:00PM

DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56	X		1	0%	100%
55	X		1	0%	100%
54	X	X	2	1%	99%
53	X		1	0%	98%
52	X X	X	3	1%	98%
51	X X	X X X X	6	3%	96%
50	X X	X	3	1%	93%
49	X X X X X	X X X X X X	11	5%	92%
48	X	X	2	1%	86%
47	X X X X X X X X	X X X	11	5%	85%
46	X X X X X X X X	X X X X X X X X	16	8%	80%
45	X X X X X X X X X	X X X X X X X X X	18	9%	72%
44	X X X X X X X X X X	X X X X X X X X X	19	9%	63%
43	X X X	X X X X X X X	11	5%	54%
42	X X X X X X	X X X X X X X X	15	7%	48%
41	X X X X X X X X X X	X X X X X X X X X X X X	21	10%	41%
40	X X X X X X X X X	X X X X X X X	15	7%	31%
39	X X X X X	X X	7	3%	23%
38	X X X X X	X X X X	9	4%	20%
37	X X X X X X X	X X X	10	5%	15%
36	X X	X X X X X	7	3%	10%
35	X X	X X	4	2%	7%
34		X X	2	1%	5%
33	X X X	X X	5	2%	4%
32	X		1	0%	1%
31			0	0%	1%
30		X	1	0%	1%
29	X		1	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 203</b>			<b>203</b>	<b>100%</b>	

**LOCATION:** CAMINO DEL RIO  
Camino De Los Mares to Legendario

**ROAD CHARACTERISTICS:**  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Roundabouts at Camino Del Rio & Camino De Los Mares

**ROADWAY CONDITIONS:**  
 Lateral Visibility: Good Driveway Density: low  
 Surface Condition: Good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 7,400 **SEGMENT LENGTH (ft):** 1,320

**ACCIDENTS 3-YR TOTAL:** 3 **ACCIDENT RATE:** 1.48 accidents per million  
 Avg. Accident Rate in District 12: 3.58 vehicles miles

**EXISTING SPEED LIMIT:** 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

<b>85TH %:</b>	<u>47</u> MPH	<b>10 MPH PACE:</b>	<u>38 - 47</u> MPH
<b>50TH %:</b>	<u>42</u> MPH	<b>% IN PACE:</b>	<u>70%</u>
<b>15TH %:</b>	<u>37</u> MPH	<b>% OVER PACE:</b>	<u>15%</u>
<b>AVERAGE SPEED:</b>	<u>43</u> MPH	<b>% UNDER PACE:</b>	<u>15%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street with Class 2 bike lanes, direct access to residential areas, proximity to park/greenbelt areas/trail access points, and multimodal activity, a speed limit posting of 40 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/28/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/28/18 TIME START: 1:00PM TIME STOP: 2:00PM

DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56		X	1	0%	100%
55		X	1	0%	100%
54			0	0%	99%
53		X	1	0%	99%
52	X		1	0%	99%
51	X X	X X	4	2%	98%
50	X	X X X	4	2%	96%
49		X X	2	1%	94%
48	X X	X	3	1%	93%
47		X X X	3	1%	92%
46	X X X X X	X X X X	9	4%	90%
45	X X X X X X X X	X X X X X X	16	8%	86%
44	X X X X X X	X X X X X X	12	6%	78%
43	X X X X X X X X	X X X X X X X X X X X X	23	11%	72%
42	X X X X X X X X X X X X	X X X X X X X X X X	23	11%	61%
41	X X X X X X X X X X X X	X X X X X X X X X X X X	24	12%	50%
40	X X X X X	X X X X X X X X	13	6%	38%
39	X X X X X X	X X X X	10	5%	32%
38	X X X X X X X	X X X X X X	13	6%	27%
37	X X X X X X X	X X X X X X X X	15	7%	20%
36	X X X X	X X X X	8	4%	13%
35	X X X X	X X X X	8	4%	9%
34	X	X X	3	1%	5%
33	X X X X	X X	6	3%	4%
32	X		1	0%	1%
31			0	0%	0%
30	X		1	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 205			205	100%	

LOCATION: CAMINO DEL RIO  
Legendario to Precipicio

ROAD CHARACTERISTICS:  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Roundabout at Del Rio & Sarmientoso

ROADWAY CONDITIONS:  
 Lateral Visibility: Good Driveway Density: low  
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 6,800 SEGMENT LENGTH (ft): 2,992

ACCIDENTS 3-YR TOTAL: 0 ACCIDENT RATE: 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.58 vehicles miles

EXISTING SPEED LIMIT: 40 MPH APPROVED SPEED LIMIT: 40 MPH

85TH %:	<u>45</u>	MPH	10 MPH PACE:	<u>37 - 46</u>	MPH
50TH %:	<u>41</u>	MPH	% IN PACE:	<u>77%</u>	
15TH %:	<u>36</u>	MPH	% OVER PACE:	<u>10%</u>	
AVERAGE SPEED:	<u>41</u>	MPH	% UNDER PACE:	<u>13%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of Camino Del Rio including horizontal curvature with Class 2 bike lanes, direct access to several residential neighborhoods, a speed limit posting of 40 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/28/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/28/18 TIME START: 11:15AM TIME STOP: 12:00PM

DAY OF WEEK: Friday WEATHER: Cloudy

SPEED (MPH)	SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	BOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56	X		1	0%	100%
55	X		1	0%	100%
54	X	X	2	1%	99%
53	X		1	0%	98%
52	X X	X	3	1%	98%
51	X X	X X X X	6	3%	96%
50	X X	X	3	1%	93%
49	X X X X X	X X X X X X	11	5%	92%
48	X	X	2	1%	86%
47	X X X X X X X X	X X X	11	5%	85%
46	X X X X X X X X	X X X X X X X X	16	8%	80%
45	X X X X X X X X X	X X X X X X X X X	18	9%	72%
44	X X X X X X X X X X	X X X X X X X X X	19	9%	63%
43	X X X	X X X X X X X X	11	5%	54%
42	X X X X X X	X X X X X X X X X	15	7%	48%
41	X X X X X X X X X	X X X X X X X X X X X	21	10%	41%
40	X X X X X X X X	X X X X X X X	15	7%	31%
39	X X X X X	X X	7	3%	23%
38	X X X X X	X X X X	9	4%	20%
37	X X X X X X X	X X X	10	5%	15%
36	X X	X X X X X	7	3%	10%
35	X X	X X	4	2%	7%
34		X X	2	1%	5%
33	X X X	X X	5	2%	4%
32	X		1	0%	1%
31			0	0%	1%
30		X	1	0%	1%
29	X		1	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 203			203	100%	

LOCATION: CAMINO DEL RIO  
Precipicio to Avenida La Pata

ROAD CHARACTERISTICS:  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 3 On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Signalized intersection at Camino Del Rio and Avenida La Pata

ROADWAY CONDITIONS:  
 Lateral Visibility: Good Driveway Density: low  
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 6,400 SEGMENT LENGTH (ft): 2,038

ACCIDENTS 3-YR TOTAL: 0 ACCIDENT RATE: 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 40 MPH APPROVED SPEED LIMIT: 40 MPH

<b>85TH %:</b>	<u>47</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>38 - 47</u>	<b>MPH</b>
<b>50TH %:</b>	<u>42</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>70%</u>	
<b>15TH %:</b>	<u>37</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>15%</u>	
<b>AVERAGE SPEED:</b>	<u>43</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>15%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street with Class 2 bike lanes, access to residential areas, proximity to trail access points, and multimodal activity, a speed limit posting of 40 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 12/28/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/25/19 TIME START: 1:00 PM TIME STOP: 1:15 PM

DAY OF WEEK: Monday WEATHER: Overcast

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55		X	1	0%	100%
54		X	1	0%	100%
53			0	0%	99%
52	X		1	0%	99%
51		X	1	0%	99%
50			0	0%	98%
49	X	X X X	4	2%	98%
48	X	X X	3	1%	96%
47	X X X	X X	5	2%	95%
46	X X X	X X X X X	8	4%	92%
45	X X X X X	X X X X X	10	5%	88%*
44	X X X X X X	X X X X X	11	5%	83%*
43	X X X X X X X X X X X	X X X X X X	17	8%	78%*
42	X X X X	X X X X X X X	11	5%	70%*
41	X X X X X X	X X X X X X	12	6%	65%*
40	X X X X X X X X	X X X X X X X X X	17	8%	59%*
39	X X X X X X X X X X X X X X	X X X X X X X X X	23	11%	50%*
38	X X X X X X X X X X X X	X X X X X	17	8%	39%*
37	X X X X X X X X X X	X X X X X	15	7%	31%*
36	X X X X X X X X X X X X	X X X X	16	8%	24%*
35	X X X X X	X X X	8	4%	16%*
34	X X X X	X X X X X	9	4%	12%*
33	X X X	X	4	2%	8%*
32	X X	X X	4	2%	6%*
31	X X X	X X X	6	3%	4%*
30	X		1	0%	1%
29			0	0%	0%
28	X		1	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 206			<b>206</b>	<b>100%</b>	

**LOCATION:** EL CAMINO REAL (PACIFIC COAST HIGHWAY)  
Camino Capistrano to Avenida Estacion

**ROAD CHARACTERISTICS:**  
 Width (ft): 56-82  
 No. of Lanes for Both Directions: 2-3  
 Horizontal Alignment Design Speed: 50 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: no  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Signalized at Cam. Capistrano, and at Cam. San Clemente

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 15,400      **SEGMENT LENGTH (ft):** 5,518

**ACCIDENTS 3-YR TOTAL:** 15      **ACCIDENT RATE:** 0.85 accidents per million  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 45 MPH      **APPROVED SPEED LIMIT:** 45 MPH

<b>85TH %:</b>	<b>44</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>36 - 45</u>	<b>MPH</b>
<b>50TH %:</b>	<u>39</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>72%</u>	
<b>15TH %:</b>	<u>34</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>12%</u>	
<b>AVERAGE SPEED:</b>	<u>40</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>16%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 45 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/25/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/3/18 TIME START: 10:15AM TIME STOP: 11:15AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46	X		0%	100%
45			0%	100%
44			0%	100%
43		X	0%	100%
42			0%	100%
41		X	0%	100%
40		X X	0%	99%
39		X X X X X X X	2%	99%
38	X	X X X X X X X X X X X X X X X	5%	97%
37	X X	X X X X X X X X X X X X	3%	93%
36		X X X X X X X X X X X X X X X	5%	90%*
35	X X X	X X X X X X X X X X X X X X X	7%	85%*
34	X	X X X X X X X X X X X X X X X	5%	78%*
33	X X X X	X X X X X X X X X X X X X X X	6%	73%* P
32	X X X	X X X X X X X X X X X X X X X	4%	68%* A
31	X X X X X X X X X X X	X X X X X X X X X X X X X X X	6%	63%* C
30	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	10%	57%* E
29	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	9%	47%*
28	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	6%	38%*
27	X X X X X X X X X X X X X X X	X X X X X	4%	32%*
26	X X X X X X X X X	X X X X X X	3%	28%
25	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	7%	25%
24	X X X X X	X X X X X X X X X X X X X X X	5%	18%
23	X X X X X X X X X X X X X X X	X X X X X X	5%	13%
22	X X X X X X X X X X X X X X X		3%	8%
21	X X X X X X X X X X		2%	5%
20	X X X X X X	X	2%	3%
19	X X X		1%	2%
18	X X X X		1%	1%
17	X X		0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 465			100%	

**LOCATION:** EL CAMINO REAL  
Avenida Estacion to Calle De Los Molinos

**ROAD CHARACTERISTICS:**  
 Width (ft): 56 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Ave. Pico, and at Los Molinos

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 15,600 **SEGMENT LENGTH (ft):** 1,584

**ACCIDENTS 3-YR TOTAL:** 11 **ACCIDENT RATE:** 2.15 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.58 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>35</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>27 - 36</u>	<b>MPH</b>
<b>50TH %:</b>	<u>29</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>62%</u>	
<b>15TH %:</b>	<u>23</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>10%</u>	
<b>AVERAGE SPEED:</b>	<u>30</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>28%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/3/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/3/18 TIME START: 11:20AM TIME STOP: 12:20PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41		X X X	1%	100%
40		X X X X X	1%	99%
39		X X X X X	1%	98%
38		X X X X X	1%	98%
37	X X X X X X	X X X X X X X X X	3%	97%
36	X X X X X X X X X	X X X X X X X X X X	4%	94%
35	X X X	X X X X X X X X X X X X	5%	90%
34	X X X X X X X X X X X X X	X X X X X X X X X X X X X	7%	86%*
33	X X X X X X X X X X X	X X X X X X X X X X X X X	7%	79%*
32	X X X X X X X X X X X X X	X X X X X X X X X X X X X	7%	72%*
31	X X X X X X X X X X X X X	X X X X X X X X X X X X X	8%	65%*
30	X X X X X X X X X X X X X	X X X X X X X X X X X X X	8%	57%*
29	X X X X X X X X X X X X X	X X X X X X X X X X X X X	8%	49%*
28	X X X X X X X X X X X X X	X X X X X X X X X X X X X	9%	41%*
27	X X X X X X X X X X X X X	X X X X X X X X X X X X X	8%	32%*
26	X X X X X X X X X X X	X X X X X X X X X X X X X	7%	24%*
25	X X X X X X X X X X X	X X X X X X X X X X X X X	5%	18%*
24	X X X X X X X X X X X X X	X X X X X	5%	13%
23	X X X X X X X X X	X	2%	7%
22	X X X X X X X X		1%	6%
21	X X X X X X X	X X X X	2%	4%
20	X X X X		1%	2%
19	X X X	X X X X X	1%	2%
18			0%	0%
17	X X		0%	0%
16			0%	0%
15			0%	0%
<b>TOTAL NUMBER OF VEHICLES = 576</b>			<b>100%</b>	

**LOCATION:** EL CAMINO REAL  
Calle De Los Molinos to El Portal

**ROAD CHARACTERISTICS:**  
 Width (ft): 56 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Los Molinos and at El Portal

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 14,100 **SEGMENT LENGTH (ft):** 2,377

**ACCIDENTS 3-YR TOTAL:** 7 **ACCIDENT RATE:** 1.01 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.58 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b> <u>34</u> <b>MPH</b>	<b>10 MPH PACE:</b> <u>25 - 34</u> MPH
<b>50TH %:</b> <u>29</u> MPH	<b>% IN PACE:</b> <u>73%</u>
<b>15TH %:</b> <u>24</u> MPH	<b>% OVER PACE:</b> <u>14%</u>
<b>AVERAGE SPEED:</b> <u>30</u> MPH	<b>% UNDER PACE:</b> <u>13%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/3/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/20/18 TIME START: 11:45AM TIME STOP: 12:30PM

DAY OF WEEK: Thursday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43	X		0%	100%
42			0%	100%
41		X	0%	100%
40	X X		1%	99%
39			0%	98%
38	X X X X X X	X	3%	98%
37	X	X X X X	2%	95%
36	X X	X X X X	3%	92%*
35	X X X X X X	X X X X X X	6%	89%*
34	X X X X X X X X X X	X X X X X X X X	9%	83%*
33	X X X X X X X	X X X X X X X X X	8%	74%* P
32	X X X X X X X X X X	X X X X X X X X X X	9%	66%* A
31	X X X X X X X X X X	X X X X X X X X X X	9%	56%* C
30	X X X X X X X X X X X X	X X X X X X X X X X	11%	47%* E
29	X X X X X X X X X X	X X X X X X X X X X X X	10%	36%*
28	X X X X X X X X X X	X X X X X X X X X X X X	10%	26%*
27	X X X X X X X X	X X X X X X X X X X X X	9%	15%*
26	X X X X X	X	3%	6%
25	X X X	X X	2%	3%
24		X	0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 201			100%	

**LOCATION:** EL CAMINO REAL  
El Portal to Avenida Palizada

**ROAD CHARACTERISTICS:**  
 Width (ft): 56  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 40 MPH  
 Vertical Alignment Design Speed: 55 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Signalized at El Portal, Mariposa, Palizada

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: high  
 Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 13,300      **SEGMENT LENGTH (ft):** 1,800

**ACCIDENTS 3-YR TOTAL:** 18  
(1/1/2015 - 12/31/2017)  
**ACCIDENT RATE:** 3.63 accidents per million vehicles miles  
 Avg. Accident Rate in District 12: 3.58

**EXISTING SPEED LIMIT:** 30 MPH      **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	34	MPH	<b>10 MPH PACE:</b>	27 - 36	MPH
<b>50TH %:</b>	30	MPH	<b>% IN PACE:</b>	86%	
<b>15TH %:</b>	27	MPH	<b>% OVER PACE:</b>	8%	
<b>AVERAGE SPEED:</b>	31	MPH	<b>% UNDER PACE:</b>	6%	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 30 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/20/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/19/19 TIME START: 3:00 PM TIME STOP: 3:30 PM

DAY OF WEEK: Tuesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43		X	1%	100%
42			0%	100%
41			0%	100%
40			0%	100%
39			0%	100%
38	X	X	1%	100%
37	X		1%	99%
36	X		1%	98%
35		X X	1%	98%
34	X	X X X X	3%	97%
33	X X X X X X X X	X X X X	6%	94%
32	X X X X X	X X X X X X	6%	88%
31	X X X X	X X X X	4%	83%
30	X X X X X X X	X X X X X X X X X X X X X	11%	79%
29	X X X X X X X X X X X X X	X X X X X X X X	11%	68%
28	X X X X X X X X X X X X X X	X X X X X X X	11%	58%
27	X X X X X X X X X X X X X X	X X X X X X X X X X	13%	47%
26	X X X X X X X X X X	X X X X X X X X X X X X	11%	35%
25	X X X X X X X X X X X X X X	X X X X X X	10%	24%
24	X X X X X X X X	X X X X X X X	8%	14%
23	X X	X	2%	7%
22	X X X X X X	X	4%	5%
21	X X		1%	2%
20		X	1%	1%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 200			100%	

**LOCATION:** EL CAMINO REAL  
Avenida Palizada to Avenida Presidio

**ROAD CHARACTERISTICS:**  
 Width (ft): 56 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Palizada, Del Mar, Victoria

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 14,300 **SEGMENT LENGTH (ft):** 2,112

**ACCIDENTS 3-YR TOTAL:** 23 **ACCIDENT RATE:** 3.67 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.58 vehicles miles

**EXISTING SPEED LIMIT:** 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	<u>31</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>24 - 33</u>	<b>MPH</b>
<b>50TH %:</b>	<u>27</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>88%</u>	
<b>15TH %:</b>	<u>24</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>6%</u>	
<b>AVERAGE SPEED:</b>	<u>28</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>7%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 30 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/19/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/20/18 TIME START: 10:30AM TIME STOP: 11:00AM

DAY OF WEEK: Thursday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46		X	0%	100%
45			0%	100%
44			0%	100%
43		X	0%	100%
42	X	X X	1%	99%
41		X X	1%	98%
40		X X X	1%	97%
39	X X	X X	2%	96%
38		X X	1%	94%
37	X X X	X X X X X X X	4%	93%
36	X X X X X	X X X X X X X X	6%	89%*
35	X X X	X X X X X X X X X	6%	82%*
34	X X X X X X X	X X X X X X X X	7%	77%*
33	X X X X X X X X X X	X X X X X X X X X X X	10%	70% P
32	X X X X X X X X X X X	X X X X	7%	61% A
31	X X X X X X X X	X X X X X X X X X X X	9%	54% C
30	X X X X X X X X X X	X X X X X X X X X X X	9%	45% E
29	X X X X X X X X X X X X X	X X X X X	9%	36%*
28	X X X X X X X X X X X X	X X X X X X	8%	27%*
27	X X X X X X X X X X	X X	5%	19%*
26	X X X X X X X X X	X X	5%	14%
25	X X X X X	X X X	4%	9%
24	X X X X X X	X X	4%	6%
23	X X	X	1%	2%
22			0%	1%
21	X		0%	1%
20	X		0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 228			100%	

LOCATION: **EL CAMINO REAL**  
Avenida Presidio to Avenida Valencia

**ROAD CHARACTERISTICS:**

Width (ft): 56 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: Signalized at Barcelona & Valencia

**ROADWAY CONDITIONS:**

Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 16,000 SEGMENT LENGTH (ft): 3,168

ACCIDENTS 3-YR TOTAL: 23 ACCIDENT RATE: 2.19 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.58 vehicles miles

EXISTING SPEED LIMIT: 30 MPH APPROVED SPEED LIMIT: **30 MPH**

<b>85TH %:</b>	<b>35</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>27 - 36</u>	MPH
<b>50TH %:</b>	<u>30</u>	MPH	<b>% IN PACE:</b>	<u>75%</u>	
<b>15TH %:</b>	<u>26</u>	MPH	<b>% OVER PACE:</b>	<u>11%</u>	
<b>AVERAGE SPEED:</b>	<u>31</u>	MPH	<b>% UNDER PACE:</b>	<u>14%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the high volume of pedestrians and density of commercial businesses fronting the street, a speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 12/20/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/20/18 TIME START: 11:00AM TIME STOP: 11:45AM

DAY OF WEEK: Thursday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52		X	0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48	X	X	1%	100%
47		X	0%	99%
46	X	X	1%	98%
45			0%	97%
44	X X	X	1%	97%
43	X X	X X X X X	3%	96%
42	X X X X	X X X X	4%	92%
41	X	X X	1%	89%
40	X X X X X X	X X	4%	87%
39	X X X X	X X X X X X	5%	83%*
38	X X X	X X X X X X X X	5%	78%*
37	X X X X X X X X	X X X X X	6%	73%*
36	X X X X X X	X X X X X X X	6%	67%* P
35	X X X X X X X X X X X X	X X X X X X X X X	11%	61%* A
34	X X X X X X X	X X X X X X X X X X X X	10%	50%* C
33	X X X X X X X X X X X X	X X X X X X X X X	10%	41%* E
32	X X X X X X X X X X X X X X	X X X X X X X X X X	11%	31%*
31	X X X X X X	X X X X X	5%	19%*
30	X X X X X X	X X X X X	5%	14%*
29	X X X	X X X	3%	9%
28	X X X X	X	2%	6%
27	X	X	1%	3%
26	X	X X	1%	2%
25	X		0%	1%
24			0%	0%
23		X	0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 209			100%	

**LOCATION:** EL CAMINO REAL  
Avenida Valencia to Calle Del Comercio

**ROAD CHARACTERISTICS:**  
 Width (ft): 56  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 40 MPH  
 Vertical Alignment Design Speed: 55 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Signalized at Valencia, San Juan, San Gabriel, Fwy. overpass & San Luis Rey

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: medium  
 Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 11,200  
**SEGMENT LENGTH (ft):** 4,752

**ACCIDENTS 3-YR TOTAL:** 26  
 (1/1/2015 - 12/31/2017)  
**ACCIDENT RATE:** 2.36 accidents per million vehicles miles  
 Avg. Accident Rate in District 12: 3.58

**EXISTING SPEED LIMIT:** 35 MPH  
**APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	39	MPH	<b>10 MPH PACE:</b>	30 - 39	MPH
<b>50TH %:</b>	34	MPH	<b>% IN PACE:</b>	75%	
<b>15TH %:</b>	30	MPH	<b>% OVER PACE:</b>	17%	
<b>AVERAGE SPEED:</b>	35	MPH	<b>% UNDER PACE:</b>	9%	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/20/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/13/19 TIME START: 9:40 AM TIME STOP: 10:25 AM  
 DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48	X		1%	100%
47		X	1%	99%
46		X X	2%	98%
45			0%	96%
44		X	1%	96%
43	X	X X	3%	95%
42	X X X X X	X X X	8%	92%*
41	X X X	X X	5%	85%*
40	X X X X X X X	X	8%	80%*
39	X X X X X X X X	X X X X	11%	73% P
38	X X X X X X X	X X	8%	61% A
37	X X X X	X X	6%	53% C
36	X X X X X X X X	X	8%	47% E
35	X X X X X X	X X X	8%	39%*
34	X X X X X X X X X	X X X X	12%	30%*
33	X X X X X X	X X X X X X	11%	18%*
32	X		1%	7%
31		X	1%	6%
30	X X		2%	5%
29	X		1%	3%
28	X X		2%	2%
27			0%	0%
26			0%	0%
25			0%	0%
24			0%	0%
23			0%	0%
22			0%	0%
21			0%	0%
20			0%	0%
19			0%	0%
18			0%	0%
17			0%	0%
16			0%	0%
15			0%	0%
TOTAL NUMBER OF VEHICLES = 106			100%	

LOCATION: EL CAMINO REAL  
Calle Del Comercio to South City Limit

**ROAD CHARACTERISTICS:**

Width (ft): 56  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 40 MPH  
 Vertical Alignment Design Speed: 55 MPH

Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Signalized at San Luis Rey; 9 stops between Del Comercio and Avenida Santa Margarita.

**ROADWAY CONDITIONS:**

Lateral Visibility: good  
 Surface Condition: good

Driveway Density: medium  
 Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 3,300

SEGMENT LENGTH (ft): 4,224

ACCIDENTS 3-YR TOTAL: 11  
 (1/1/2015 - 12/31/2017)

ACCIDENT RATE: 3.81 accidents per million  
 Avg. Accident Rate in District 12: 3.58 vehicles miles

EXISTING SPEED LIMIT: 35 MPH

APPROVED SPEED LIMIT: 35 MPH

**85TH %:** 41 MPH

**10 MPH PACE:** 33 - 42 MPH

**50TH %:** 36 MPH

**% IN PACE:** 86%

**15TH %:** 32 MPH

**% OVER PACE:** 8%

**AVERAGE SPEED:** 37 MPH

**% UNDER PACE:** 7%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street segment's proximity to park, golf, elementary school uses (direct pedestrian bridge access), and high volume of pedestrian and bicyclist traffic, a speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Jane Mrotek

STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 3/12/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/20/18 TIME START: 1:15PM TIME STOP: 2:15PM

DAY OF WEEK: Thursday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38			0	0%	100%
37			0	0%	100%
36	X	X X X X	5	2%	100%
35	X		1	0%	98%
34	X X	X X X X X X X X	10	5%	97%
33	X X X X X X X	X X X X	11	5%	92%
32	X X	X X X X X X X X X X	13	6%	87%
31	X X X X X X X X	X X X X X X X X X X X X	20	9%	81%
30	X X X X X	X X X X X X X X X X X X	17	8%	72%
29	X X X X X X X	X X X X X X X X X X X X	18	8%	64%
28	X X X X X X X X X	X X X X X X X X X	18	8%	55%
27	X X X X X X X X X X	X X X X X X X X X	19	9%	47%
26	X X X X X X X X X X X X X X X X	X X X X X	20	9%	38%
25	X X X X X X X	X X X X X X X X	14	7%	29%
24	X X X X X X X X X X X	X X X X X	15	7%	22%
23	X X X X X X X	X X X X X	10	5%	15%
22	X X	X X X X	6	3%	10%
21	X X	X X X	5	2%	8%
20	X	X X	3	1%	5%
19	X	X	2	1%	4%
18	X X X X	X	5	2%	3%
17			0	0%	0%
16	X		1	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 213			213	100%	

LOCATION: EL PORTAL, EAST  
El Camino Real to Avenida De La Estrella

ROAD CHARACTERISTICS:  
 Width (ft): 40  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 25 MPH  
 Vertical Alignment Design Speed: 30 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Traffic signals at El Camino Real and Ave. De La Estrella

ROADWAY CONDITIONS:  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: high  
 Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 3,000 SEGMENT LENGTH (ft): 2,900

ACCIDENTS 3-YR TOTAL: 5  
(1/1/2015 - 12/31/2018)  
 ACCIDENT RATE: 2.77 accidents per million vehicles miles  
 Avg. Accident Rate in District 12: 1.10

EXISTING SPEED LIMIT: 25 MPH APPROVED SPEED LIMIT: 25 MPH

85TH %:	31 MPH	10 MPH PACE:	24 - 33 MPH
50TH %:	27 MPH	% IN PACE:	77%
15TH %:	23 MPH	% OVER PACE:	8%
AVERAGE SPEED:	28 MPH	% UNDER PACE:	15%

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the geometric design of the street, direct access to multi-family and single family residential and commercial establishments, driveway density, and multimodal activity, a speed limit posting of 25 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 12/20/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/30/18 TIME START: 2:00PM TIME STOP: 3:00PM

DAY OF WEEK: Friday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42		X	1	0%	100%
41			0	0%	100%
40	X		1	0%	100%
39		X	1	0%	99%
38	X		1	0%	99%
37	X		1	0%	98%
36	X	X X	3	1%	98%
35		X	1	0%	96%
34		X X X	3	1%	96%
33	X X X X X	X X X X	9	4%	94%
32	X X	X X X X X X X X	10	5%	90%
31	X X	X X X X X	7	3%	86%
30	X X X X X	X X X	8	4%	82%
29	X X X X X	X X X X X X X X X X	16	7%	79%
28	X X X X X	X X X X X X X X X	14	7%	71%
27	X X X X X X	X X X X X X X X X X X	18	8%	64%
26	X X X X X X X X X X X X X X	X X X X X X X X X X X X X	26	12%	56%
25	X X X X X X X X X X	X X X X X X X X	19	9%	44%
24	X X X X X X	X X X X X X X	13	6%	35%
23	X X X X X X X X X X X X X	X X X X X X X	18	8%	29%
22	X X X X X X X X	X X X X	12	6%	21%
21	X X X X X	X X X X X	9	4%	15%
20	X X X X X	X X	7	3%	11%
19	X X X X X	X X X	7	3%	7%
18	X X X X X X	X	7	3%	4%
17			0	0%	1%
16		X	1	0%	1%
15	X		1	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 214</b>			<b>214</b>	<b>100%</b>	

**LOCATION:** AVENIDA DE LA ESTRELLA  
Avenida Presidio to East El Portal

**ROAD CHARACTERISTICS:**

Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: traffic signal at the intersection with Avenida Palizada

**ROADWAY CONDITIONS:**

Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 6,830 **SEGMENT LENGTH (ft):** 2,860

**ACCIDENTS 3-YR TOTAL:** 15 **ACCIDENT RATE:** 3.70 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b>	<b>31</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>21 - 30</u>	<b>MPH</b>
<b>50TH %:</b>	<u>25</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>71%</u>	
<b>15TH %:</b>	<u>21</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>18%</u>	
<b>AVERAGE SPEED:</b>	<u>26</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>11%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the geometric design of the street, direct access to multi-family and single family residential and commercial establishments, driveway density, and multimodal activity, a speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/30/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/30/18 TIME START: 9:00AM TIME STOP: 9:45AM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54		X	1	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49	X X		2	1%	100%
48		X	1	0%	99%
47	X	X X	3	1%	98%
46			0	0%	97%
45	X X		2	1%	97%
44	X	X X X X	5	2%	96%
43	X X X X X	X X	7	3%	94%
42	X X X X X	X X	7	3%	90%
41	X	X X X X	5	2%	87%
40	X X	X X X X X X	8	4%	85%
39	X X	X X X X X X X X X X X	14	6%	81%*
38	X X X X X	X X X X	9	4%	75%*
37	X X X	X X X X	7	3%	71%*
36	X X X X X X X X	X X X X X X X	15	7%	67%*
35	X X X X X X X X X	X X X X X X X X X X	19	9%	61%*
34	X X X X X X X X X	X X X X X X X X X X	20	9%	52%*
33	X X X X X X X X X X	X X X X	14	6%	43%*
32	X X X X X X X	X X X X X X	13	6%	36%*
31	X X X X X X	X X X X X X X X X X	17	8%	30%*
30	X X X X X X X	X X X X X X	13	6%	22%*
29	X X X X X X X	X X X	10	5%	17%*
28	X X X X X	X X X	8	4%	12%*
27	X X X X X	X	6	3%	8%*
26	X X X X	X	5	2%	6%*
25	X X	X X	4	2%	3%*
24	X		1	0%	1%*
23	X		1	0%	1%*
22	X		1	0%	0%*
21			0	0%	0%*
20			0	0%	0%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
TOTAL NUMBER OF VEHICLES = 218			218	100%	

LOCATION: **CAMINO DE ESTRELLA**  
Interstate 5 to West City Limit

ROAD CHARACTERISTICS:  
 Width (ft): 84 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: signalized at Cam. Mira Costa, Shopping Center and at I-5

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 10,600 SEGMENT LENGTH (ft): 3,141

ACCIDENTS 3-YR TOTAL: 15 ACCIDENT RATE: 2.17 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: **35 MPH**

<b>85TH %:</b>	<b>40</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>30 - 39</u>	<u>MPH</u>
<b>50TH %:</b>	<u>33</u>	<u>MPH</u>	<b>% IN PACE:</b>	<u>65%</u>	
<b>15TH %:</b>	<u>28</u>	<u>MPH</u>	<b>% OVER PACE:</b>	<u>19%</u>	
<b>AVERAGE SPEED:</b>	<u>35</u>	<u>MPH</u>	<b>% UNDER PACE:</b>	<u>17%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the high density residential and commercial nature of Camino de Estrella, including multimodal activity on the segment, a speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/30/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/10/18 TIME START: 1:00PM TIME STOP: 4:00PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38			0	0%	100%
37			0	0%	100%
36			0	0%	100%
35			0	0%	100%
34		X	1	1%	100%
33		X	1	1%	99%
32			0	0%	98%
31		X X X X X X X	7	7%	98%*
30	X X X X	X X X X X X	10	10%	91%*
29	X X X X	X X X X	8	8%	82%*
28	X X X X	X X X X	8	8%	74%*
27	X X X	X X X X	7	7%	66%*
26	X X X	X X X X	7	7%	60%*
25	X X X	X X X X X	8	8%	53%*
24	X X X X X X	X X X X X X X X	14	13%	45%*
23	X X X X X X	X X X	9	9%	32%*
22	X X X	X X X X	7	7%	23%*
21	X X X X	X X	6	6%	16%*
20	X X X		3	3%	11%*
19	X X X		3	3%	8%*
18	X X X	X	4	4%	5%*
17			0	0%	1%*
16	X		1	1%	1%*
15			0	0%	0%*
<b>TOTAL NUMBER OF VEHICLES = 104</b>			<b>104</b>	<b>100%</b>	

**LOCATION:** CAMINO FARO  
Calle Frontera to Avenida Vista Hermosa

**ROAD CHARACTERISTICS:**  
 Width (ft): 36 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Traffic signal at intersection with Calle Frontera and Ave. Vista Hermosa

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 1,600 **SEGMENT LENGTH (ft):** 1,580

**ACCIDENTS 3-YR TOTAL:** 0 **ACCIDENT RATE:** 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b> <u>29</u> <b>MPH</b>	<b>10 MPH PACE:</b> <u>22 - 31</u> <b>MPH</b>
<b>50TH %:</b> <u>24</u> <b>MPH</b>	<b>% IN PACE:</b> <u>82%</u>
<b>15TH %:</b> <u>20</u> <b>MPH</b>	<b>% OVER PACE:</b> <u>2%</u>
<b>AVERAGE SPEED:</b> <u>25</u> <b>MPH</b>	<b>% UNDER PACE:</b> <u>16%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/10/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 3:00PM TIME STOP: 4:00PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49		X	1	1%	100%
48			0	0%	99%
47			0	0%	99%
46			0	0%	99%
45	X		1	1%	99%
44			0	0%	98%
43	X	X	2	2%	98%
42			0	0%	96%
41		X	1	1%	96%
40	X	X X X	4	4%	95%*
39	X	X X X X X	6	6%	91%*
38	X X X X	X X	6	6%	86%*
37	X X X	X X X X X X	9	9%	80% P
36	X X	X X X X X X X X X	11	11%	71% A
35	X X X X	X X X X X X	10	10%	61% C
34	X X X X X	X X X X X	10	10%	51% E
33	X X X X X X X X X	X X X X X X	15	14%	41%*
32	X X X X	X X	6	6%	27%*
31	X X X X X X X X	X X	10	10%	21%*
30	X X X	X	4	4%	12%*
29	X X		2	2%	8%
28	X X		2	2%	6%
27	X		1	1%	4%
26	X X		2	2%	3%
25			0	0%	1%
24			0	0%	1%
23			0	0%	1%
22			0	0%	1%
21			0	0%	1%
20	X		1	1%	1%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 104			104	100%	

LOCATION: Avenida Fresas (Private street)  
Calle Saluda to Calle Gaulleria

ROAD CHARACTERISTICS:  
 Width (ft): 52 - 70 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: no  
 Horizontal Alignment Design Speed: n/a Crosswalks: no  
 Vertical Alignment Design Speed: n/a Traffic Controls: Traffic signal at Avenida Talega and Avenida Fresas.

ROADWAY CONDITIONS:  
 Lateral Visibility: Good Driveway Density: low  
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 2,700 SEGMENT LENGTH (ft): 2,518

ACCIDENTS 3-YR TOTAL: 0 ACCIDENT RATE: 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

<b>85TH %:</b>	<b>38</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>31 - 40</u>	<u>MPH</u>
<b>50TH %:</b>	<u>34</u>	<u>MPH</u>	<b>% IN PACE:</b>	<u>84%</u>	
<b>15TH %:</b>	<u>30</u>	<u>MPH</u>	<b>% OVER PACE:</b>	<u>5%</u>	
<b>AVERAGE SPEED:</b>	<u>35</u>	<u>MPH</u>	<b>% UNDER PACE:</b>	<u>12%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/26/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/28/18 TIME START: 3:00PM TIME STOP: 4:00PM  
 DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43		X X X X	4	1%	100%
42		X X X	3	1%	99%
41		X X	2	1%	98%
40	X	X X X X X X	7	2%	97%
39	X X X	X X X	6	2%	95%
38	X X	X X X X X X	9	3%	93%
37	X X X X X	X X X X X X X X X	15	5%	91%*
36	X X X X X X X X X X X X X X	X X X X X X X X X X X X	26	8%	86%*
35	X X X X X X X X X X	X X X X X X X X X X X X X X	26	8%	78%*
34	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	28	8%	71% P
33	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	36	11%	62% A
32	X X X X X X X X X X X X X X X X	X X X X X	21	6%	51% C
31	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	35	11%	45% E
30	X X X X X X X X X X X X X X X X	X X X X X	25	8%	35%*
29	X X X X X X X X X X X	X X X X X	16	5%	27%*
28	X X X X X X X X X X X X X X X X	X X X X X X X X X X	28	8%	22%*
27	X X X X X	X X X X X X X X	13	4%	14%
26	X X X X X X X X	X X	10	3%	10%
25	X X X	X X	5	2%	7%
24	X X	X	3	1%	5%
23	X	X X	3	1%	5%
22		X X X X X	5	2%	4%
21		X X	2	1%	2%
20		X	1	0%	2%
19			0	0%	1%
18	X		1	0%	1%
17		X	1	0%	1%
16		X X	2	1%	1%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 333			333	100%	

LOCATION: CALLE FRONTERA  
 Avenida Pico to 600' s/o Calle Cuadra

ROAD CHARACTERISTICS:  
 Width (ft): 40  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 50 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: stop sign at intersection with Cl. Faceta and traffic signals at Ave. Pico & Vista Hermosa.

ROADWAY CONDITIONS:  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: medium  
 Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 4,800 SEGMENT LENGTH (ft): 6,266

ACCIDENTS 3-YR TOTAL: 7  
 (1/1/2015 - 12/31/2017)  
 ACCIDENT RATE: 1.12 accidents per million vehicles miles  
 Avg. Accident Rate in District 12: 1.10

EXISTING SPEED LIMIT: 30 MPH APPROVED SPEED LIMIT: 30 MPH

85TH %:	35	MPH	10 MPH PACE:	28 - 37	MPH
50TH %:	31	MPH	% IN PACE:	77%	
15TH %:	27	MPH	% OVER PACE:	9%	
AVERAGE SPEED:	32	MPH	% UNDER PACE:	14%	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Calle Frontera is located within a residential area and is a school route to San Clemente High school and Marblehead Middle school. A speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/28/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/26/19 TIME START: 9:00 AM TIME STOP: 12:00 PM  
 DAY OF WEEK: Tuesday WEATHER: Overcast

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38			0	0%	100%
37			0	0%	100%
36			0	0%	100%
35			0	0%	100%
34			0	0%	100%
33			0	0%	100%
32			0	0%	100%
31			0	0%	100%
30			0	0%	100%
29			0	0%	100%
28	X X X X X X X X	X X X X	12	12%	100%
27	X X X X X X X X X X	X X	12	12%	88%
26	X X X X	X X	6	6%	76%
25	X X X X X X X X X X X X X X X X	X X X X	19	19%	71%
24	X X X X	X X X X X X X X X X X	15	15%	52%
23	X X X X	X X X X	8	8%	37%
22	X X	X X X X X X X X	10	10%	29%
21	X X X X X X X X X		9	9%	20%
20	X X		2	2%	11%
19	X	X X X X	5	5%	9%
18			0	0%	4%
17	X X X X		4	4%	4%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 102			<b>102</b>	<b>100%</b>	

**LOCATION:** CALLE FRONTERA  
600' S. of Calle Cuadra to Calle Vallarta

**ROAD CHARACTERISTICS:**  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: stop sign at intersection with Calle Vallarta and Guadalajara

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 3,100 **SEGMENT LENGTH (ft):** 2,724

**ACCIDENTS 3-YR TOTAL:** 1 **ACCIDENT RATE:** 0.57 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b>	<u>26</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>19 - 28</u>	<b>MPH</b>
<b>50TH %:</b>	<u>23</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>96%</u>	
<b>15TH %:</b>	<u>20</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>0%</u>	
<b>AVERAGE SPEED:</b>	<u>24</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>4%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/26/2024

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# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 1:00PM TIME STOP: 2:00PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51		X	1	1%	100%
50			0	0%	99%
49			0	0%	99%
48			0	0%	99%
47			0	0%	99%
46			0	0%	99%
45	X	X X X	4	3%	99%
44	X X	X X	4	3%	96%
43		X X X X	4	3%	93%
42	X X	X X X X	6	5%	90%
41	X X	X X	4	3%	86%
40	X X X X X	X X X X X	10	8%	83%*
39	X X X X X X X X X X	X X X X X X	15	11%	75%*
38	X X X X X X X X X X	X X X X X X X	17	13%	64%*
37	X X X X	X X X X X	9	7%	51%*
36	X X X X X X	X X X	9	7%	44%*
35	X X	X X	4	3%	37%*
34	X X X	X X X	6	5%	34%*
33	X X	X X X X X X X X	10	8%	30%*
32	X X X X	X X X X X	9	7%	22%*
31	X X X X	X X X X	8	6%	15%*
30	X	X X X X	5	4%	9%*
29	X	X	2	2%	5%*
28		X	1	1%	4%*
27		X	1	1%	3%*
26	X		1	1%	2%*
25			0	0%	2%*
24	X		1	1%	2%*
23			0	0%	1%*
22	X		1	1%	1%*
21			0	0%	0%*
20			0	0%	0%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
TOTAL NUMBER OF VEHICLES = 132			132	100%	

LOCATION: Camino Viento Fuerte (Private Street)  
Avenida Talega (West) to Via Agradar

ROAD CHARACTERISTICS:  
 Width (ft): 45 Sidewalks/Driveways: Sidewalks -yes; Driveway - No  
 No. of Lanes for Both Directions: 2 On-Street Parking: no  
 Horizontal Alignment Design Speed: n/a Crosswalks: yes  
 Vertical Alignment Design Speed: n/a Traffic Controls: Traffic signal at Cm. Viente and Ave. Talega (West)

ROADWAY CONDITIONS:  
 Lateral Visibility: Limited Driveway Density: None  
 Surface Condition: Good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 3,600 SEGMENT LENGTH (ft): 2,700

ACCIDENTS 3-YR TOTAL: 0 ACCIDENT RATE: 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: **35 MPH**

<b>85TH %:</b>	<b>41</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>31 - 40</u>	<u>MPH</u>
<b>50TH %:</b>	<u>37</u>	<u>MPH</u>	<b>% IN PACE:</b>	<u>73%</u>	
<b>15TH %:</b>	<u>31</u>	<u>MPH</u>	<b>% OVER PACE:</b>	<u>17%</u>	
<b>AVERAGE SPEED:</b>	<u>37</u>	<u>MPH</u>	<b>% UNDER PACE:</b>	<u>9%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street's location within residential tracts and limited line of sight due to street curvature, a speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/26/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/11/18 TIME START: 9:00AM TIME STOP: 12:00PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38	X		1	1%	100%
37			0	0%	99%
36	X	X X X X X X	7	7%	99%
35	X X	X X X X X	7	7%	92% *
34	X X X	X X X X	7	7%	85% *
33	X X X	X X X X X X	9	9%	78% *
32	X X X X X X	X X X X X	11	11%	69% P
31	X X X X X	X X X X	9	9%	58% A
30	X X X X	X X X X X	9	9%	49% C
29	X X X X	X X X X	8	8%	40% E
28	X X X X	X X X	7	7%	32% *
27	X X X X	X X X	7	7%	25% *
26	X X X X X	X X X	8	8%	18% *
25	X X X X		4	4%	10%
24	X X X X		4	4%	6%
23			0	0%	2%
22		X	1	1%	2%
21		X	1	1%	1%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 100</b>			<b>100</b>	<b>100%</b>	

**LOCATION:** Camino Viento Fuerte (Private street)  
Via Agradar to Avenida Talega (East)

**ROAD CHARACTERISTICS:**  
 Width (ft): 45  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: n/a  
 Vertical Alignment Design Speed: n/a  
 Sidewalks/Driveways: Sidewalks -yes; Driveway - No  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Traffic signal at Cm. Viente and Ave. Talega (East)

**ROADWAY CONDITIONS:**  
 Lateral Visibility: Limited  
 Surface Condition: Good  
 Driveway Density: None  
 Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 1,300      **SEGMENT LENGTH (ft):** 3,200

**ACCIDENTS 3-YR TOTAL:** 0      **ACCIDENT RATE:** 0.00 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.10

**EXISTING SPEED LIMIT:** 35 MPH      **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<b>34</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>26 - 35</u>	<b>MPH</b>
<b>50TH %:</b>	<u>30</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>82%</u>	
<b>15TH %:</b>	<u>25</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>8%</u>	
<b>AVERAGE SPEED:</b>	<u>30</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>10%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/11/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 10:00AM TIME STOP: 11:00AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47		X	1	1%	100%
46			0	0%	99%
45		X X	2	2%	99%
44		X	1	1%	97%
43	X	X	2	2%	96%
42			0	0%	95%
41	X	X X X X	5	5%	95%
40	X X X X X	X X X X X X	11	10%	90%
39	X X X	X X	5	5%	80%
38	X X X X X	X X X X X X	11	10%	76%
37	X X X X	X X X X X X X X X X	14	13%	66%
36	X X X X X X X	X X X X	11	10%	53%
35	X X X X X X	X X X X	10	9%	43%
34	X X X	X X X	6	5%	34%
33	X X X X X	X X X X X	10	9%	29%
32	X X X X X	X	6	5%	20%
31	X X	X X	4	4%	14%
30	X		1	1%	11%
29	X	X X	3	3%	10%
28	X X X		3	3%	7%
27	X		1	1%	5%
26			0	0%	4%
25		X	1	1%	4%
24	X		1	1%	3%
23	X	X	2	2%	2%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 111			111	100%	

LOCATION: Camino Tierra Grande (Private Street)  
Avenida Talega to Via Timon

**ROAD CHARACTERISTICS:**

Width (ft): 44 - 52 Sidewalks/Driveways: Sidewalks - Yes; Driveway - No  
 No. of Lanes for Both Directions: 2 On-Street Parking: no  
 Horizontal Alignment Design Speed: n/a Crosswalks: no  
 Vertical Alignment Design Speed: n/a Traffic Controls: Stop sign intersection @ Via Garona & Tierra Grande

**ROADWAY CONDITIONS:**

Lateral Visibility: Good Driveway Density: None  
 Surface Condition: Good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:**

2,900 SEGMENT LENGTH (ft): 1,650

**ACCIDENTS 3-YR TOTAL:**

(1/1/2015 - 12/31/2017) 1 ACCIDENT RATE: 1.01 accidents per million  
 Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:**

35 MPH APPROVED SPEED LIMIT: 35 MPH

**85TH %:** 39 MPH

**10 MPH PACE:** 32 - 41 MPH

**50TH %:** 35 MPH

**% IN PACE:** 80%

**15TH %:** 31 MPH

**% OVER PACE:** 5%

**AVERAGE SPEED:** 36 MPH

**% UNDER PACE:** 14%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/26/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/11/2018 TIME START: 1:00PM TIME STOP: 4:00PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38		X X	2	2%	100%
37	X	X X	3	3%	98%
36	X	X X X X	5	5%	95%
35	X X X X X	X X X X	9	9%	90%
34	X X X X	X X X X X	9	9%	82%
33	X X X X X	X X X X	9	9%	73%
32	X X X X X X	X X X	9	9%	64%
31	X X X X X	X X X X X	10	10%	55%
30	X X X X X	X X X	8	8%	46%
29	X X X X X X	X X X X	10	10%	38%
28	X X X X X	X X	7	7%	28%
27	X X X X	X X	6	6%	21%
26	X X	X X X	5	5%	16%
25	X X	X X X	5	5%	11%
24			0	0%	6%
23		X X	2	2%	6%
22	X		1	1%	4%
21		X X	2	2%	3%
20			0	0%	1%
19	X		1	1%	1%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 103			<b>103</b>	<b>100%</b>	

**LOCATION:** Camino Tierra Grande (Private street)  
Via Timon to Camino Viento Fuerte

**ROAD CHARACTERISTICS:**

Width (ft): 44 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: no  
 Horizontal Alignment Design Speed: n/a Crosswalks: no  
 Vertical Alignment Design Speed: n/a Traffic Controls: 2-Way stops on all side streets.

**ROADWAY CONDITIONS:**

Lateral Visibility: Good Driveway Density: None  
 Surface Condition: Good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:**

1,400 **SEGMENT LENGTH (ft):** 3,200

**ACCIDENTS 3-YR TOTAL:**

0 **ACCIDENT RATE:** 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:**

35 MPH **APPROVED SPEED LIMIT:** 35 MPH

**85TH %:** 34 **MPH**

**10 MPH PACE:** 27 - 36 **MPH**

**50TH %:** 30 **MPH**

**% IN PACE:** 80%

**15TH %:** 26 **MPH**

**% OVER PACE:** 5%

**AVERAGE SPEED:** 31 **MPH**

**% UNDER PACE:** 16%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/11/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/25/19 TIME START: 8:30 A.M. TIME STOP: 11:15 A.M.  
 DAY OF WEEK: Monday WEATHER: Sunny

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38		X	1	1%	100%
37			0	0%	99%
36	X X	X	3	3%	99%
35	X X X	X	4	4%	96%
34	X X X	X	4	4%	92%
33	X X X X X	X X X X	10	10%	88%
32	X X X X X X X X X X	X	11	11%	78%
31	X X X X X X	X X X	9	9%	67%
30	X X	X	3	3%	58%
29	X X X X	X X X X X X	10	10%	55%
28	X X X X X	X	6	6%	45%
27	X X X	X X X X X X	9	9%	39%
26	X X X X	X X X X X X X X X	13	13%	30%
25	X X X X X X X	X X X X X X X X	15	15%	17%
24	X	X	2	2%	2%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 100			100	100%	

LOCATION: **CALLE GUADALAJARA**  
 Calle Nuevo to Ave. Vaquero

ROAD CHARACTERISTICS:  
 Width (ft): 40-50 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 28 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: stop sign at intersection with Ave. Vaquero and Nuevo

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,750 SEGMENT LENGTH (ft): 7,051

ACCIDENTS 3-YR TOTAL: 0 ACCIDENT RATE: 0.00 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10

EXISTING SPEED LIMIT: 25 MPH APPROVED SPEED LIMIT: **25 MPH**

85TH %:	<b>32</b> MPH	10 MPH PACE:	<u>25 - 34</u> MPH
50TH %:	<u>28</u> MPH	% IN PACE:	<u>90%</u>
15TH %:	<u>24</u> MPH	% OVER PACE:	<u>8%</u>
AVERAGE SPEED:	<u>29</u> MPH	% UNDER PACE:	<u>2%</u>

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street, fronting residential, high driveway density and on-street parking demand, a speed limit posting of 25 MPH is found to be appropriate and justified.

OBSERVED BY: Jane Mrotek STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 3/24/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/18 TIME START: 11:00 AM TIME STOP: 12 PM  
 DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54		X	1	0%	100%
53			0	0%	100%
52			0	0%	100%
51		X	1	0%	100%
50			0	0%	99%
49		X X	2	1%	99%
48		X X X	3	1%	98%
47		X	1	0%	97%
46		X X	2	1%	96%
45		X X	2	1%	95%
44	X	X X X X X X	7	3%	94%
43		X X X X X X X X X X	10	5%	91%
42			0	0%	86%
41	X X X X	X X X X X X X X	12	6%	86%
40	X X X X	X X X X X X X	11	5%	80%
39	X X X X	X X X X	8	4%	75%*
38	X X X X X X X X X X	X X X X X X X X X X X X X X	24	11%	71%*
37	X X X X X X	X X X X X X X X	14	7%	60%*
36	X X X X X X X X	X X X X X X X X X X	17	8%	53%* P
35	X X X X X X	X X X X X X X	11	5%	45%* A
34	X X X X X X	X X X X X X X X X X	16	8%	40%* C
33	X X X X X X X X X X X X	X X X	15	7%	32%* E
32	X X X X X X	X X X X	10	5%	25%*
31	X X X X X X X X X X X X	X	13	6%	20%*
30	X X X X X X X X	X X X X X X	14	7%	14%*
29	X X X X X X	X	6	3%	7%*
28	X X X X		4	2%	4%
27	X X X X X X		5	2%	2%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 209</b>			<b>209</b>	<b>100%</b>	

**LOCATION:** WEST AVENIDA VISTA HERMOSA  
Avenida Costa Azul to Avenida Pico (west)

**ROAD CHARACTERISTICS:**  
 Width: 84 - 112 ft  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 50 mph  
 Vertical Alignment Design Speed: 50 mph  
 Sidewalks/Driveways: YES  
 On-Street Parking: NO  
 Crosswalks: YES  
 Traffic Controls: Traffic Signal Lights at I-5 SB ramp, Park Access Rd, Ave Costa Azul, Commercial Entrance, Via Canon Verde & Ave Pico (west)

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: Medium  
 Ped. & Bicycle Activity: Medium

**AVERAGE DAILY TRAFFIC:** 10,000      **SEGMENT LENGTH (ft):** 2,182

**ACCIDENTS 3-YR TOTAL:** 4      **ACCIDENT RATE:** 0.88 accidents per million  
 (5/1/2015 - 5/1/2017)      Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 40 MPH      **APPROVED SPEED LIMIT:** 40 MPH

<b>85TH %:</b>	<b>40</b>	<b>M.P.H.</b>	<b>10 MPH PACE:</b>	<u>29 - 39</u>	<b>M.P.H.</b>
<b>50TH %:</b>	<u>35</u>	<b>M.P.H.</b>	<b>% IN PACE:</b>	<u>71%</u>	
<b>15TH %:</b>	<u>30</u>	<b>M.P.H.</b>	<b>% OVER PACE:</b>	<u>25%</u>	
<b>AVERAGE SPEED:</b>	<u>36</u>	<b>M.P.H.</b>	<b>% UNDER PACE:</b>	<u>4%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 40 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/18 TIME START: 2:00PM TIME STOP: 3:00PM  
 DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53	X		1	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47	X X		2	1%	100%
46	X X	X X X X	6	3%	99%
45	X X X	X	4	2%	96%
44	X X X		3	1%	94%
43	X X X	X X X X	7	3%	92%
42	X X X X X X X	X X X X X X X X	15	7%	89%
41	X X X X X X X X X X	X X X X X X X X	19	9%	81%
40	X X X X X X X X	X X X X X X X X X X	18	9%	72%
39	X X X X	X X X X X X X X	12	6%	63%
38	X X X X X X X X X	X X X X X X X X X X	19	9%	57%
37	X X X X X X X	X X X X X X X X X	16	8%	48%
36	X X X X X X X X X X	X X X X X X X X X X X	21	10%	40%
35	X X X X X X X X X X X X	X X X X X X X X X X X X	24	12%	30%
34	X X X X X X X X	X X X X X	13	6%	18%
33	X X X X X X	X X X X X X	12	6%	11%
32	X X X X X	X X	7	3%	5%
31		X	1	0%	2%
30	X	X	2	1%	1%
29			0	0%	0%
28		X	1	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 203			203	100%	

LOCATION: WEST AVENIDA VISTA HERMOSA  
I-5 Southbound Off-ramp to Avenida Costa Azul

ROAD CHARACTERISTICS:  
 Width: 84 - 112 ft Sidewalks/Driveways: YES  
 No. of Lanes for Both Directions: 4 On-Street Parking: NO  
 Horizontal Alignment Design Speed: 50 mph Crosswalks: YES  
 Vertical Alignment Design Speed: 50 mph Traffic Controls: Traffic Signal Lights at I-5 SB ramp, Park Access Rd, Ave Costa Azul, Commercial Entrance, Via Canon Verde & Ave Pico (west)

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: Medium  
 Surface Condition: good Ped. & Bicycle Activity: Medium

AVERAGE DAILY TRAFFIC: 17,800 SEGMENT LENGTH (ft): 1,518

ACCIDENTS 3-YR TOTAL: 5 ACCIDENT RATE: 0.89 accidents per million  
 (5/1/2015 - 5/1/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

EXISTING SPEED LIMIT: 40 MPH APPROVED SPEED LIMIT: 40 MPH

<b>85TH %:</b>	<b>41</b>	<b>M.P.H.</b>	<b>10 MPH PACE:</b>	<b>29 - 42</b>	<b>M.P.H.</b>
<b>50TH %:</b>	<b>37</b>	<b>M.P.H.</b>	<b>% IN PACE:</b>	<b>88%</b>	
<b>15TH %:</b>	<b>33</b>	<b>M.P.H.</b>	<b>% OVER PACE:</b>	<b>11%</b>	
<b>AVERAGE SPEED:</b>	<b>38</b>	<b>M.P.H.</b>	<b>% UNDER PACE:</b>	<b>0%</b>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 40 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/28/18 TIME START: 10:30AM TIME STOP: 11:30AM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56		X	1	0%	100%
55		X	2	0%	100%
54			0	0%	100%
53		X X X X X X X X X	9	1%	100%
52		X X X X X X X X	8	1%	99%
51	X	X X	3	0%	98%
50		X X X X X X X X X	9	1%	97%
49	X X X X X X X X X X	X X X	13	2%	96%
48	X X X X X	X X X X X X X X X X X X X X X	34	4%	95%
47	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	50	6%	91%
46	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	60	7%	84%
45	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	53	6%	77%
44	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	51	6%	71%
43	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	56	7%	65%
42	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	58	7%	58%
41	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	54	6%	51%
40	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	60	7%	45%
39	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	60	7%	37%
38	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	57	7%	30%
37	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	47	6%	23%
36	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	42	5%	18%
35	X X X X X X X X X X X X X X X X	X X X X X X X	36	4%	13%
34	X X X X X X X X X X X X X X X X	X X X X X X X X X	30	4%	8%
33	X X X X X X X X X X X X X X X X		23	3%	5%
32			0	0%	2%
31			0	0%	2%
30		X X X X X X X X X X X X	11	1%	2%
29	X		1	0%	1%
28	X		1	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22	X		1	0%	0%
21		X	1	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16		X	1	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 832</b>			<b>832</b>	<b>100%</b>	

**LOCATION:** Avenida Vista Hermosa  
I-5 Southbound Off-ramp to Via Turqueza

**ROAD CHARACTERISTICS:**  
 Width (ft): 74  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 45 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Traffic signals on at the intersections with Calle Frontera and Camino Faro.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 33,000      **SEGMENT LENGTH (ft):** 3,260

**ACCIDENTS 3-YR TOTAL:** 6      **ACCIDENT RATE:** 0.27 accidents per million  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 40 MPH      **APPROVED SPEED LIMIT:** 40 MPH

<b>85TH %:</b>	<b>46</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>38 - 47</u>	<u>MPH</u>
<b>50TH %:</b>	<u>40</u>	<u>MPH</u>	<b>% IN PACE:</b>	<u>67%</u>	
<b>15TH %:</b>	<u>35</u>	<u>MPH</u>	<b>% OVER PACE:</b>	<u>9%</u>	
<b>AVERAGE SPEED:</b>	<u>41</u>	<u>MPH</u>	<b>% UNDER PACE:</b>	<u>23%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design, direct access to Marblehead Elementary School, proximity to Shorecliffs Middle School and Vista Hermosa Sports Park, Class 2 bike lanes, adjacent and multimodal activity, a speed limit posting of 40 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/28/2023









# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/20/19 TIME START: 10:15 AM TIME STOP: 10:30 AM  
 DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63	X		1	0%	100%
62			0	0%	100%
61		X X	2	1%	100%
60	X		1	0%	99%
59			0	0%	98%
58			0	0%	98%
57			0	0%	98%
56		X	1	0%	98%
55		X X X	3	1%	98%
54		X X X	3	1%	97%
53	X	X X	3	1%	95%
52		X X X	3	1%	94%
51	X X X	X X X X	7	3%	93%
50	X	X X X X X X X X X	11	5%	90%
49	X X X X	X X X X X X X	11	5%	85%
48	X X X X X X X X	X X X X X X X X X X X	20	9%	80%
47	X X X X X X X X	X X X X X X X X X X	18	8%	72%
46	X X X X X X X X X X	X X X X X X X X X	18	8%	64%
45	X X X X X X X X X	X X X X X X X X X	17	7%	56%
44	X X X X X	X X X X X X	11	5%	49%
43	X X X X X X X X	X X X X X X X X X X X	19	8%	44%
42	X X X X X X X X X X	X X X X X X X X X X X X X	23	10%	36%
41	X X X	X X X X X X X X	11	5%	26%
40	X X X X X X	X X X X X	10	4%	21%
39	X X X X X X X X	X X X X X X X X X	16	7%	17%
38	X X X X X	X X X X X X X	12	5%	10%
37	X X	X X X X	6	3%	5%
36	X	X X	3	1%	3%
35	X	X	2	1%	1%
34			0	0%	0%
33			0	0%	0%
32			0	0%	0%
31		X	1	0%	0%
30			0	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 233</b>			<b>233</b>	<b>100%</b>	

LOCATION: AVENIDA VISTA HERMOSA  
Avenida La Pata to Avenida Pico

**ROAD CHARACTERISTICS:**

Width (ft): 104  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 50 MPH  
 Vertical Alignment Design Speed: 50 MPH

Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Traffic signals at Ave La Pata, Ave Talega, Camino La Pedriza and Ave Pico; Stop sign at via Marino.

**ROADWAY CONDITIONS:**

Lateral Visibility: good  
 Surface Condition: good

Driveway Density: low  
 Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:**

24,500

**SEGMENT LENGTH (ft):**

5,160

**ACCIDENTS 3-YR TOTAL:**

10

(1/1/2015 - 12/31/2017)

**ACCIDENT RATE:**

0.38

Avg. Accident Rate in District 12: 1.48 accidents per million vehicles miles

**EXISTING SPEED LIMIT:**

45 MPH

**APPROVED SPEED LIMIT: 45 MPH**

**85TH %:** 49 MPH

**10 MPH PACE:** 39 - 48 MPH

**50TH %:** 44 MPH

**% IN PACE:** 70%

**15TH %:** 38 MPH

**% OVER PACE:** 20%

**AVERAGE SPEED:** 45 MPH

**% UNDER PACE:** 10%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 45 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.

**STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/20/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 2:00PM TIME STOP: 3:00PM

DAY OF WEEK: Monday WEATHER: Sunny

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
75			0	0%	100%
74	X		1	0%	100%
73			0	0%	100%
72			0	0%	100%
71			0	0%	100%
70			0	0%	100%
69			0	0%	100%
68			0	0%	100%
67			0	0%	100%
66			0	0%	100%
65			0	0%	100%
64			0	0%	100%
63		X	1	0%	100%
62			0	0%	99%
61			0	0%	99%
60			0	0%	99%
59	X	X X	3	1%	99%
58	X X		2	1%	98%
57	X	X	2	1%	97%
56	X X X X X X	X X	8	4%	96%
55	X X X	X X X	6	3%	92%
54	X X X X X	X X X	8	4%	89%*
53	X X X X X X X	X X X X	11	5%	85%*
52	X X X X X X X X X X X X X X	X X X X X X	21	10%	79%*
51	X X X X X X X X	X X X X X X X	16	8%	69%* P
50	X X X X X X X X X	X X X X X X X	16	8%	61%* A
49	X X X X X X	X X X X	10	5%	53%* C
48	X X X X	X X X X X X	11	5%	48%* E
47	X X X X X X X X	X X X X X X	14	7%	42%*
46	X X X X X X X X X X X	X X X X X X	17	8%	35%*
45	X X X X X	X X X X X X	11	5%	27%*
44	X X	X X X X	6	3%	21%*
43	X	X X X X	5	2%	18%*
42	X	X X X	4	2%	16%*
41	X X	X X	4	2%	14%*
40	X	X X X	4	2%	12%*
39		X X X X X X	6	3%	10%*
38		X X X X X X	6	3%	7%*
37	X	X X	3	1%	4%*
36	X	X	2	1%	2%*
35			0	0%	1%*
34		X	1	0%	1%
33		X	1	0%	1%
32			0	0%	0%
31			0	0%	0%
30			0	0%	0%
29		X	1	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
TOTAL NUMBER OF VEHICLES = 201			201	100%	

**LOCATION:** AVENIDA LA PATA  
Camino Del Rio to County of Orange Limit Line

**ROAD CHARACTERISTICS:**  
 Width (ft): 70 - 80  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 70 MPH  
 Vertical Alignment Design Speed: 70 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: no  
 Traffic Controls: Traffic signal at La Pata and Del Rio.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: Good  
 Surface Condition: Good  
 Driveway Density: low  
 Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 16,300 **SEGMENT LENGTH (ft):** 4,440

**ACCIDENTS 3-YR TOTAL:** 0 **ACCIDENT RATE:** 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 55 MPH **APPROVED SPEED LIMIT:** 55 MPH

<b>85TH %:</b> 53 MPH	<b>10 MPH PACE:</b> 35 - 54 MPH
<b>50TH %:</b> 48 MPH	<b>% IN PACE:</b> 87%
<b>15TH %:</b> 42 MPH	<b>% OVER PACE:</b> 11%
<b>AVERAGE SPEED:</b> 48 MPH	<b>% UNDER PACE:</b> 1%

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 55 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/26/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/30/18 TIME START: 10:45AM TIME STOP: 10:45AM  
 DAY OF WEEK: Friday WEATHER: Hazy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64		X	1	0%	100%
63			0	0%	100%
62			0	0%	100%
61	X		1	0%	100%
60			0	0%	99%
59	X		1	0%	99%
58		X X	2	1%	99%
57	X	X	2	1%	98%
56	X		1	0%	97%
55	X	X X	3	1%	96%
54	X	X X X	4	2%	95%
53	X X X X X X X	X X X	10	5%	93%
52	X	X	2	1%	88%
51	X X X X	X X X	7	3%	87%
50	X X X X	X	5	2%	84%
49	X X X X X X X X	X X X X X X X X X	17	8%	82%
48	X X X X X X X X X X	X X X X X	16	8%	74%
47	X X X X X X X X X	X X X X X X X X X X X	21	10%	66%
46	X X X X X X	X X X X X X X X X X X	18	8%	56%
45	X X X X X X X X X X	X X X X X X X X	18	8%	48%
44	X X X X X X X X X X X	X X X X X X X X	19	9%	39%
43	X X X X	X X X X X X X X X	13	6%	30%
42	X X X X X X X	X X X	10	5%	24%
41	X X X X X	X X X X X X X	12	6%	19%
40	X X X	X X X X	7	3%	14%
39	X X X X X	X X	7	3%	10%
38	X X X X X X	X X X	9	4%	7%
37	X	X	2	1%	3%
36		X	1	0%	2%
35			0	0%	1%
34			0	0%	1%
33			0	0%	1%
32		X	1	0%	1%
31			0	0%	1%
30			0	0%	1%
29	X		1	0%	1%
28			0	0%	0%
27	X		1	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 212			212	100%	

**LOCATION:** AVENIDA LA PATA  
Calle Saluda to Avenida Vista Hermosa

**ROAD CHARACTERISTICS:**  
 Width (ft): 84 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 70 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 70 MPH Traffic Controls: Signalized intersection at Avenida Vista Hermosa and at Calle Saluda

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 32,500 **SEGMENT LENGTH (ft):** 2,040

**ACCIDENTS 3-YR TOTAL:** 3 **ACCIDENT RATE:** 0.22 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48

**EXISTING SPEED LIMIT:** 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

<b>85TH %:</b>	<u>50</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>40 - 49</u>	<b>MPH</b>
<b>50TH %:</b>	<u>45</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>71%</u>	
<b>15TH %:</b>	<u>40</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>18%</u>	
<b>AVERAGE SPEED:</b>	<u>46</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>10%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street's access to residential establishments and multimodal activity associated with Class 2 bike lanes and nearby hiking trails, a speed limit posting of 45 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/30/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/20/19 TIME START: 9:50 AM TIME STOP: 10:15 AM

DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58		X	1	1%	100%
57		X	1	1%	100%
56	X	X X	3	2%	99%
55			0	0%	98%
54		X	1	1%	98%
53		X	1	1%	97%
52		X X	2	1%	97%
51	X X X	X X X X	7	4%	96%
50	X X X	X X X X X	9	5%	92%
49	X X X X X	X X X X X X X X	15	8%	88%*
48	X X X X X	X X X X X X X X	14	7%	80%*
47	X X X X X	X X X X X X	12	6%	73%*
46	X X X X X X	X X X X X X X X X X X X X X	22	11%	67% P
45	X X X X X	X X X X X X X	13	7%	56% A
44	X X X X X X	X X X X	10	5%	50% C
43	X X X X X X X X	X X X X X X	16	8%	45% E
42	X X X X	X X X X X X X X X X X	16	8%	37%*
41	X X	X X X X	6	3%	29%*
40	X X X X X X X X	X X X X	12	6%	26%*
39	X X X X	X X X X X X	10	5%	20%
38	X X X X	X X X	7	4%	15%
37	X X X X X X	X X X	9	5%	11%
36	X X	X X X	5	3%	7%
35	X	X X	3	2%	4%
34			0	0%	3%
33	X		1	1%	3%
32	X		1	1%	2%
31	X		1	1%	2%
30			0	0%	1%
29	X		1	1%	1%
28	X		1	1%	1%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 200			200	100%	

LOCATION: AVENIDA LA PATA  
Avenida Vista Hermosa to Avenida Pico

ROAD CHARACTERISTICS:  
 Width (ft): 84 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 70 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 70 MPH Traffic Controls: Signalized intersection at Avenida Vista Hermosa and at Calle Saluda

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 24,800 SEGMENT LENGTH (ft): 3,108

ACCIDENTS 3-YR TOTAL: 3 ACCIDENT RATE: 0.19 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48

EXISTING SPEED LIMIT: 45 MPH APPROVED SPEED LIMIT: 45 MPH

85TH %:	<u>48</u>	MPH	10 MPH PACE:	<u>40 - 49</u>	MPH
50TH %:	<u>44</u>	MPH	% IN PACE:	<u>68%</u>	
15TH %:	<u>38</u>	MPH	% OVER PACE:	<u>13%</u>	
AVERAGE SPEED:	<u>44</u>	MPH	% UNDER PACE:	<u>20%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 45 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 2/20/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/30/18 TIME START: 11:45AM TIME STOP: 12:15PM

DAY OF WEEK: Friday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64	X		1	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59	X X		2	1%	100%
58		X X	2	1%	99%
57			0	0%	98%
56	X	X	2	1%	98%
55	X	X	2	1%	97%
54	X X X	X X X	6	3%	96%
53	X	X X	3	1%	93%
52	X X	X X X X	6	3%	91%
51	X X X X	X X X X X	9	4%	88%
50	X X X X	X X X X X X X	12	6%	84%
49	X X	X X	4	2%	78%
48	X X X X X	X X X X X X X	12	6%	76%
47	X X X X X X X X	X X X X X X X X	19	9%	70%
46	X X X X X	X X X X X X X X X X X	18	9%	61%
45	X X X X X X X X X	X X X X	13	6%	52%
44	X X X X X X	X X X X X X X X X X	17	8%	46%
43	X X X X	X X X X X X X X	12	6%	37%
42	X X X X X X	X X X X	10	5%	31%
41	X X X X X X X X	X X X X X	13	6%	26%
40	X X X X X	X X X X X	10	5%	20%
39	X X X X	X X X	7	3%	15%
38	X	X	2	1%	12%
37	X X X X X X	X	7	3%	11%
36	X X X X X	X	6	3%	7%
35	X X		2	1%	4%
34	X		1	0%	3%
33	X X		2	1%	3%
32	X X	X	3	1%	2%
31			0	0%	0%
30	X		1	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 204			204	100%	

LOCATION: AVENIDA LA PATA  
Avenida Pico to Calle Del Cerro

ROAD CHARACTERISTICS:  
 Width (ft): 84 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 70 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 70 MPH Traffic Controls: Traffic signals at Ave Pico, Traffic Devices and CI Amanecer; Stop signs at two side streets.

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 11,300 SEGMENT LENGTH (ft): 3,570

ACCIDENTS 3-YR TOTAL: 3 ACCIDENT RATE: 0.36 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

EXISTING SPEED LIMIT: 45 MPH APPROVED SPEED LIMIT: 45 MPH

85TH %:	<u>50</u>	<u>MPH</u>	10 MPH PACE:	<u>39 - 48</u>	<u>MPH</u>
50TH %:	<u>44</u>	<u>MPH</u>	% IN PACE:	<u>64%</u>	
15TH %:	<u>39</u>	<u>MPH</u>	% OVER PACE:	<u>24%</u>	
AVERAGE SPEED:	<u>45</u>	<u>MPH</u>	% UNDER PACE:	<u>12%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the location of this street segment with access to industrial and commercial establishments, proximity to Steed Park and La Pata Dog Park, and multimodal activity associated with Class 2 bike lanes, a speed limit posting of 45 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/30/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/30/18 TIME START: 1:00PM TIME STOP: 2:00PM

DAY OF WEEK: Friday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57		X	1	1%	100%
56			0	0%	100%
55		X	1	1%	100%
54	X X	X X X	5	3%	99%
53		X X X X X X	6	3%	97%
52		X X X X X X X X X X	10	5%	94%
51	X	X X X X	5	3%	89%
50	X X X	X X X X X X X	10	5%	86%
49		X X X X X X	6	3%	81%
48	X X X X	X X X X X X X	11	6%	78%*
47	X X X X	X X X X X	9	5%	73%*
46	X X X X	X X X X X X	10	5%	68%*
45	X X	X X X	5	3%	63% P
44	X X X X X X X	X X X X	11	6%	61% A
43	X X	X X X X X X X X X	11	6%	55% C
42	X X X X X	X X X X X X X	12	6%	50% E
41	X X X X	X X X X X X	10	5%	44%*
40	X X X X X X X	X X X X X X	13	7%	39%*
39	X X X X	X X X X X	9	5%	32%*
38	X X	X X X X X X	8	4%	28%
37	X X X X X X	X X	8	4%	24%
36	X X X	X X X X X X	9	5%	20%
35	X X X X X X	X X	8	4%	15%
34	X X X		3	2%	11%
33	X X X X X X	X	7	4%	10%
32	X X	X	3	2%	6%
31	X X X X		4	2%	5%
30	X X X		3	2%	3%
29	X		1	1%	1%
28	X		1	1%	1%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 200			200	100%	

LOCATION: AVENIDA LA PATA  
Calle Del Cerro to South City Limit

**ROAD CHARACTERISTICS:**

Width (ft): 84  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 50 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: no  
 Traffic Controls: Stop on CI Del Cerro, CI Iglesia, Steed Park Dwy, & CI Extremo

**ROADWAY CONDITIONS:**

Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 5,500

SEGMENT LENGTH (ft): 3,790

ACCIDENTS 3-YR TOTAL: 3  
(1/1/2015 - 12/31/2017)

ACCIDENT RATE: 0.69 accidents per million  
 Avg. Accident Rate in District 12: 1.48 vehicles miles

EXISTING SPEED LIMIT: 45 MPH

APPROVED SPEED LIMIT: 45 MPH

85TH %: 49 MPH

10 MPH PACE: 39 - 48 MPH

50TH %: 42 MPH

% IN PACE: 51%

15TH %: 35 MPH

% OVER PACE: 22%

AVERAGE SPEED: 43 MPH

% UNDER PACE: 28%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 45 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/30/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/18 TIME START: 10:00AM TIME STOP: 11:00AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50	X X		2	1%	100%
49		X	1	0%	99%
48	X	X	2	1%	99%
47	X X X X	X X	6	3%	98%
46	X X	X X X	5	2%	95%
45	X X X	X X X	6	3%	92%
44	X X X	X X X	6	3%	89%
43	X X X X X	X X X X X X	12	6%	86%*
42	X X	X X X X X X X X X	12	6%	80%*
41	X X X X	X X X X X X X X	13	6%	74%*
40	X X X X X X X X X X	X X X X X X X X X X	20	10%	68%*
39	X X X X X X X X X X X X	X X X X X X X X X X X X	32	16%	58%*
38	X X X X X X X X X	X X X X	13	6%	42%*
37	X X X X X X	X X X X X X X X	14	7%	35%*
36	X X X X X X X X	X X X X X X X X X X	18	9%	28%*
35	X X X X X X X X X X X X	X X X X X	18	9%	19%*
34	X X X X X X X	X X	9	4%	10%*
33		X X X	3	1%	6%
32	X X X X	X	5	2%	4%
31	X	X	2	1%	2%
30	X X		2	1%	1%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 201			201	100%	

**LOCATION:** CAMINO LA PEDRIZA  
Avenida Vista Hermosa to Via Amor

**ROAD CHARACTERISTICS:**  
 Width (ft): 66  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 45 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Stop signs on Calle Pedriza at Avenida Vista Hermosa

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 7,800 **SEGMENT LENGTH (ft):** 4,150

**ACCIDENTS 3-YR TOTAL:** 2 **ACCIDENT RATE:** 0.30 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10

**EXISTING SPEED LIMIT:** 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

<b>85TH %:</b>	42	MPH	<b>10 MPH PACE:</b>	34 - 43	MPH
<b>50TH %:</b>	38	MPH	<b>% IN PACE:</b>	80%	
<b>15TH %:</b>	34	MPH	<b>% OVER PACE:</b>	14%	
<b>AVERAGE SPEED:</b>	39	MPH	<b>% UNDER PACE:</b>	6%	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 40 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/18 TIME START: 9:00AM TIME STOP: 10:00AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53	X		1	1%	100%
52			0	0%	99%
51			0	0%	99%
50	X		1	1%	99%
49	X X	X	3	3%	98%
48	X X		2	2%	95%
47	X X	X X	4	4%	93%
46	X X	X X	4	4%	89%
45	X X X X	X X	6	6%	85%*
44	X X		2	2%	79%*
43	X X X X X X	X X	9	9%	77% P
42	X X X X X X X	X X X	11	11%	69% A
41	X X	X	3	3%	58% C
40	X X X X X X	X X X	10	10%	55% E
39	X X X X X X	X X	9	9%	45%*
38	X X X X X	X X X X X X	11	11%	36%*
37	X X X	X X	5	5%	25%*
36	X	X X	3	3%	21%
35	X	X X	3	3%	18%
34	X	X X X X	5	5%	15%
33	X	X	2	2%	10%
32	X X	X	3	3%	8%
31			0	0%	5%
30	X X	X X	4	4%	5%
29			0	0%	1%
28		X	1	1%	1%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 102			102	100%	

LOCATION: CAMINO LA PEDRIZA  
Via Amor to Avenida Pico

ROAD CHARACTERISTICS:  
 Width (ft): 66  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 45 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Stop signs at nine side streets.

ROADWAY CONDITIONS:  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 4,000 SEGMENT LENGTH (ft): 4,400

ACCIDENTS 3-YR TOTAL: 1 ACCIDENT RATE: 0.27 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10

EXISTING SPEED LIMIT: 40 MPH APPROVED SPEED LIMIT: 40 MPH

85TH %:	45	MPH	10 MPH PACE:	37 - 46	MPH
50TH %:	39	MPH	% IN PACE:	69%	
15TH %:	34	MPH	% OVER PACE:	11%	
AVERAGE SPEED:	40	MPH	% UNDER PACE:	21%	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the location of the street segment within residential areas, proximity to golf course and park uses, and associated multimodal activity, a speed limit posting of 40 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/7/18 TIME START: 11:00AM TIME STOP: 12:30PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40	X		1	1%	100%
39	X X		2	2%	99%
38	X X X	X	4	4%	97%
37	X X	X	3	3%	93%
36	X X	X X	4	4%	90%
35	X X	X X	4	4%	86%
34	X X X X X	X X X X X X X	12	12%	82%*
33	X X	X X X	5	5%	71%*
32	X X X X X	X X	7	7%	66%*
31	X X	X X X	5	5%	59%*
30	X	X X X X	5	5%	54%*
29	X	X	2	2%	49%*
28	X X X X	X X	6	6%	47%*
27	X X X X X	X X X X X X	11	11%	41%*
26	X X X X X	X X X	8	8%	30%*
25	X X X X X	X X X X X	10	10%	23%*
24		X X X X X	5	5%	13%
23	X X X	X X	5	5%	8%
22	X	X	2	2%	3%
21		X	1	1%	1%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 102			<b>102</b>	<b>100%</b>	

**LOCATION:** CAMINO DE LOS MARES  
Interstate 5 to Avenida Vaquero

**ROAD CHARACTERISTICS:**

Width (ft):	<u>84</u>	Sidewalks/Driveways:	<u>yes</u>
No. of Lanes for Both Directions:	<u>6</u>	On-Street Parking:	<u>no</u>
Horizontal Alignment Design Speed:	<u>40 MPH</u>	Crosswalks:	<u>yes</u>
Vertical Alignment Design Speed:	<u>45 MPH</u>	Traffic Controls:	<u>Traffic signals at 7 intersections.</u>

**ROADWAY CONDITIONS:**

Lateral Visibility:	<u>good</u>	Driveway Density:	<u>medium</u>
Surface Condition:	<u>good</u>	Ped. & Bicycle Activity:	<u>medium</u>

**AVERAGE DAILY TRAFFIC:** 37,000      **SEGMENT LENGTH (ft):** 3,580

**ACCIDENTS 3-YR TOTAL:** 24      **ACCIDENT RATE:** 0.87 accidents per million  
(1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH      **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>34</u> <b>MPH</b>	<b>10 MPH PACE:</b>	<u>25 - 34</u> <b>MPH</b>
<b>50TH %:</b>	<u>29</u> <b>MPH</b>	<b>% IN PACE:</b>	<u>70%</u>
<b>15TH %:</b>	<u>24</u> <b>MPH</b>	<b>% OVER PACE:</b>	<u>18%</u>
<b>AVERAGE SPEED:</b>	<u>30</u> <b>MPH</b>	<b>% UNDER PACE:</b>	<u>13%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/7/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/4/18    TIME START: 2:45PM    TIME STOP: 4:00PM  
 DAY OF WEEK: Tuesday    WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58	X X		2	1%	100%
57			0	0%	99%
56			0	0%	99%
55			0	0%	99%
54		X X	2	1%	99%
53	X		1	1%	97%
52			0	0%	97%
51	X X X X X X X X	X X X X X	13	9%	97%
50	X X X X X	X X	7	5%	88%
49	X X X X		4	3%	83%
48	X X	X X	4	3%	80%
47	X X X X X X X X X X X X X X	X X X X X X	19	13%	77%
46	X X X X X X X X X X X X X X	X X X X	16	11%	64%
45	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X	23	16%	53%
44	X X X X X X X X X X	X X X X X X X X X X X X	19	13%	37%
43	X X X X X X X X	X X X X X X X X	16	11%	24%
42			0	0%	13%
41		X	1	1%	13%
40		X X X X X X X X	7	5%	12%
39	X X X X X	X X X X X X	11	8%	8%
38			0	0%	0%
37			0	0%	0%
36			0	0%	0%
35			0	0%	0%
34			0	0%	0%
33			0	0%	0%
32			0	0%	0%
31			0	0%	0%
30			0	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 145</b>			<b>145</b>	<b>100%</b>	

**LOCATION:** CAMINO DE LOS MARES  
Avenida Vaquero to Camino Vera Cruz

**ROAD CHARACTERISTICS:**  
 Width (ft): 64 - 84    Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4    On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH    Crosswalks: yes  
 Vertical Alignment Design Speed: 45 MPH    Traffic Controls: Signalized intersections at Vaquero, Nuevo and Vera Cruz.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good    Driveway Density: low  
 Surface Condition: good    Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 19,000    **SEGMENT LENGTH (ft):** 5,450

**ACCIDENTS 3-YR TOTAL:** 4    **ACCIDENT RATE:** 0.19 accidents per million  
 (1/1/2015 - 12/31/2017)    Avg. Accident Rate in District 12: 3.58 vehicles miles

**EXISTING SPEED LIMIT:** 45 MPH    **APPROVED SPEED LIMIT:** 45 MPH

<b>85TH %:</b>	<u>49</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>43 - 52</u>	<b>MPH</b>
<b>50TH %:</b>	<u>44</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>83%</u>	
<b>15TH %:</b>	<u>42</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>3%</u>	
<b>AVERAGE SPEED:</b>	<u>46</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>13%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 45 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.    **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/4/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 10:30AM TIME STOP: 11:30AM

DAY OF WEEK: Monday WEATHER: Sunny

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57		X	1	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53	X X	X	3	1%	100%
52	X X X X	X	5	2%	98%
51	X X	X X X X X	8	3%	96%
50	X X	X X X X	6	3%	93%
49	X X X X X X X X X X X X X X X X	X X X X X	20	8%	90%
48	X X X X X X X X X	X X	11	5%	82%
47	X X	X X X X	6	3%	77%
46	X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	35	15%	75%
45	X X X X X X X X X X	X X X X	13	6%	60%
44	X X X X X X X X X X X X X X X X X X	X X X X X X X X	23	10%	54%
43	X X X X X X X X X X X X X X X	X X X X X X X X X X	22	9%	44%
42	X X	X X	32	14%	35%
41	X X X X X	X X X X X X X X X X	13	6%	22%
40	X X X X X X	X X X X X X X X X X X X	15	6%	16%
39	X X X X X X	X X X X X X X X X	14	6%	10%
38	X X X		3	1%	4%
37	X X	X	3	1%	3%
36	X X	X	3	1%	1%
35			0	0%	0%
34			0	0%	0%
33			0	0%	0%
32			0	0%	0%
31			0	0%	0%
30			0	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 236			236	100%	

**LOCATION:** CAMINO DE LOS MARES  
Camino Vera Cruz to East City Limit

**ROAD CHARACTERISTICS:**  
 Width (ft): 64-84 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Signalized intersection at Camino Vera Cruz; roundabout at Bonanza/Camino Del Rio.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: Good Driveway Density: low  
 Surface Condition: Good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 5,000 **SEGMENT LENGTH (ft):** 4,150

**ACCIDENTS 3-YR TOTAL:** 5 **ACCIDENT RATE:** 1.16 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.48 vehicles miles

**EXISTING SPEED LIMIT:** 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

<b>85TH %:</b>	<u>48</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>40 - 49</u> MPH
<b>50TH %:</b>	<u>43</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>81%</u>
<b>15TH %:</b>	<u>39</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>10%</u>
<b>AVERAGE SPEED:</b>	<u>44</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>10%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 45 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/26/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/28/18 TIME START: 3:00PM TIME STOP: 4:00PM

DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49	X		0%	100%
48		X	0%	100%
47			0%	99%
46			0%	99%
45	X X X X	X	2%	99%
44		X	0%	97%
43	X X X	X X X	3%	96%
42	X X	X X X X X X	4%	93%*
41	X X X X X	X X X X X X X X	7%	89%*
40	X X X X X X X X X	X	5%	82%*
39	X X X X X	X X X X X X	5%	78% P
38	X X X X X	X X X X X X X X X X	8%	72% A
37	X X X X X X X X X X X	X X X X X X X X X X X X	12%	64% C
36	X X X X X X X X X X X	X X X X X X X X X	10%	53% E
35	X X X X X X X X X X X X	X X X X X X X X X	10%	43%*
34	X X X X X X X X X X	X X X X X X X X X X X X	10%	33%*
33	X X X X X X X X X X	X X X X X X X X	8%	23%*
32	X X	X X X	2%	15%*
31	X X X X X	X X X X X	5%	13%*
30	X X	X	1%	8%*
29	X X X X	X X X	3%	6%*
28	X		0%	3%*
27	X X		1%	2%*
26		X	0%	1%*
25	X		0%	1%*
24	X		0%	0%*
23			0%	0%*
22			0%	0%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
<b>TOTAL NUMBER OF VEHICLES = 205</b>			<b>100%</b>	

**LOCATION:** CAMINO MIRA COSTA  
Camino Capistrano to Camino De Estrella

**ROAD CHARACTERISTICS:**  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized intersection at Cam. De Estrella and stop sign At Cam. Capistrano

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 6,500 **SEGMENT LENGTH (ft):** 3,700

**ACCIDENTS 3-YR TOTAL:** 4 **ACCIDENT RATE:** 0.80 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 3.48 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>40</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>33 - 42</u>	<b>MPH</b>
<b>50TH %:</b>	<u>35</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>78%</u>	
<b>15TH %:</b>	<u>32</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>7%</u>	
<b>AVERAGE SPEED:</b>	<u>36</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>15%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street geometric design, access to multiple residential tracts, commercial establishments, and park use, a speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/28/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/18/18 TIME START: 10:30AM TIME STOP: 11:30AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48		X	1	1%	100%
47		X	1	1%	99%
46	X		1	1%	98%
45		X	1	1%	97%
44	X X	X X X X X	7	6%	97%
43	X	X X X X	5	4%	90%
42	X X X	X X X X X	8	7%	86%
41	X	X X X	4	3%	79%*
40	X X X X X X X	X X	9	8%	76%*
39	X X	X X X X	6	5%	68% P
38	X X X X	X X X X X X X	11	10%	63% A
37	X	X X X X	5	4%	53% C
36	X X X X X X	X X X X X X X X X	15	13%	49% E
35	X X X X X X	X	7	6%	36%*
34	X X X X	X	5	4%	30%*
33	X X X X X	X X X X	9	8%	25%*
32	X X	X X X X X X	8	7%	17%
31		X	1	1%	10%
30	X	X	2	2%	10%
29	X X X		3	3%	8%
28		X	1	1%	5%
27		X	1	1%	4%
26		X	1	1%	3%
25	X X		2	2%	3%
24			0	0%	1%
23			0	0%	1%
22	X		1	1%	1%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 115			115	100%	

**LOCATION:** AVENIDA VISTA MONTANA  
Calle Del Cerro to Calle Del Cerro

**ROAD CHARACTERISTICS:**  
 Width (ft): 44 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Signalized intersection at Cl. Del Cerro west and stop sign at Cl Del Cerro east.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 5,000 **SEGMENT LENGTH (ft):** 9,110

**ACCIDENTS 3-YR TOTAL:** 4 **ACCIDENT RATE:** 0.42 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>41</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>33 - 42</u>	<b>MPH</b>
<b>50TH %:</b>	<u>36</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>69%</u>	
<b>15TH %:</b>	<u>31</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>14%</u>	
<b>AVERAGE SPEED:</b>	<u>37</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>17%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the geometric design of the street with access to several residential tracts, Lobo Elementary School, Rancho San Clemente Park, and Class 2 bike lanes, a speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/18/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/18/18 TIME START: 2:30PM TIME STOP: 3:30PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47			0%	100%
46			0%	100%
45			0%	100%
44			0%	100%
43			0%	100%
42			0%	100%
41			0%	100%
40		X	1%	100%
39			0%	99%
38	X		1%	99%
37	X		1%	99%
36	X X X X X	X X	5%	97%
35	X X X X X X	X X X	6%	93%*
34	X X X X X	X X X	5%	87%*
33	X X X X X	X X X X	6%	82%*
32	X X X X X X	X X X X X X X X X X	11%	76% P
31	X X X X X X X X	X X X X X X X X X X	12%	65% A
30	X X X X X X X X	X X X X X X X X	10%	54% C
29	X X X X	X X X X X X X X	8%	43% E
28	X X X X X X	X X X X X X X X	9%	35%*
27	X X X	X X X X X	5%	26%*
26	X X X	X X X X X X	6%	21%*
25	X X X	X X X X X X	6%	15%
24		X X	1%	9%
23	X X	X X X	3%	8%
22		X X	1%	5%
21			0%	3%
20			0%	3%
19		X X	1%	3%
18		X	1%	2%
17		X	1%	1%
16		X	1%	1%
15			0%	0%
<b>TOTAL NUMBER OF VEHICLES = 155</b>			<b>100%</b>	

**LOCATION:** CALLE NEGOCIO  
Calle Amanecer to its terminus

**ROAD CHARACTERISTICS:**  
 Width (ft): 44 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized intersection at Calle Amanecer

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 5,700 **SEGMENT LENGTH (ft):** 3,330

**ACCIDENTS 3-YR TOTAL:** 1 **ACCIDENT RATE:** 0.25 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b> <u>33</u> <b>MPH</b>	<b>10 MPH PACE:</b> <u>26 - 35</u> MPH
<b>50TH %:</b> <u>29</u> MPH	<b>% IN PACE:</b> <u>78%</u>
<b>15TH %:</b> <u>25</u> MPH	<b>% OVER PACE:</b> <u>7%</u>
<b>AVERAGE SPEED:</b> <u>30</u> MPH	<b>% UNDER PACE:</b> <u>15%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/18/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/19/18 TIME START: 2:00PM TIME STOP: 3:00PM

DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40	X		1	1%	100%
39			0	0%	99%
38			0	0%	99%
37			0	0%	99%
36	X		1	1%	99%
35	X X		2	1%	99%
34	X		1	1%	97%
33	X X X X	X X	6	4%	97%
32	X X X X	X X X	7	5%	93%
31	X X X X X X X X X	X X X X X	15	10%	88%
30	X X X X X X X X X	X X X X X X X	17	11%	78%
29	X X X X X X X X X X X	X X X X X	17	11%	66%
28	X X X X X X X X	X X X X X X	14	9%	55%
27	X X X X X	X X X X X X	11	7%	45%
26	X X X X X X X	X X X X X X	13	9%	38%
25	X X X X X X X X X X X	X X X X X X X X	19	13%	29%
24	X X X	X X X X	7	5%	16%
23	X	X X X X X X X	8	5%	11%
22	X X X X X X X		6	4%	6%
21	X X	X	3	2%	2%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 148</b>			<b>148</b>	<b>100%</b>	

**LOCATION:** SOUTH OLA VISTA  
Avenida Del Mar to Avenida Valencia

**ROAD CHARACTERISTICS:**  
 Width (ft): 40  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 25 MPH  
 Vertical Alignment Design Speed: 30 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Stop signs at Ave. Palizada and signalized at Del Mar

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited  
 Surface Condition: good  
 Driveway Density: high  
 Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 3,500      **SEGMENT LENGTH (ft):** 5,280

**ACCIDENTS 3-YR TOTAL:** 13      **ACCIDENT RATE:** 3.39 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.10

**EXISTING SPEED LIMIT:** 25 MPH      **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b>	<b>30</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<b>23 - 32</b>	<b>MPH</b>
<b>50TH %:</b>	27	MPH	<b>% IN PACE:</b>	86%	
<b>15TH %:</b>	23	MPH	<b>% OVER PACE:</b>	7%	
<b>AVERAGE SPEED:</b>	28	MPH	<b>% UNDER PACE:</b>	6%	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street geometric design including horizontal curvature with areas of limited visibility, access to beach areas, various residential, high driveway density fronting the street, accident rate, and multimodal activity, a speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/19/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/19/19 TIME START: 9:00 AM TIME STOP: 10:30 AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38			0	0%	100%
37		X	1	1%	100%
36			0	0%	99%
35		X X	2	2%	99%
34			0	0%	97%
33	X	X X	3	3%	97%*
32	X X X	X X X X X	8	8%	94%*
31	X X X X X	X X X X	9	9%	86%*
30	X X X	X X X X X X X X X X	14	14%	77%*
29	X X	X X X X X X X X X X	13	13%	63%*
28	X X X X X	X X	7	7%	50%*
27	X X X X X X	X X X X X X X	13	13%	44%*
26	X X X X	X X	6	6%	31%*
25	X X X	X X X	6	6%	25%*
24	X X X X X X	X X X	9	9%	19%*
23	X X	X	3	3%	10%*
22	X	X X X	4	4%	7%*
21	X		1	1%	3%*
20		X X	2	2%	2%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
TOTAL NUMBER OF VEHICLES = 101			101	100%	

**LOCATION:** SOUTH OLA VISTA  
Avenida Valencia to Calle Calafia

**ROAD CHARACTERISTICS:**  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Stop sign at Valencia, Los Lobos Marineros, Riviera, and Calafia

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 2,000 **SEGMENT LENGTH (ft):** 4,224

**ACCIDENTS 3-YR TOTAL:** 2 **ACCIDENT RATE:** 1.14 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b>	<u>30</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>24 - 33</u>	<b>MPH</b>
<b>50TH %:</b>	<u>28</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>87%</u>	
<b>15TH %:</b>	<u>23</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>3%</u>	
<b>AVERAGE SPEED:</b>	<u>28</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>10%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street geometric design including horizontal curvature with areas of limited visibility, access to beach areas, various residential, high driveway density fronting the street, and multimodal activity, a speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/19/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/18/18 TIME START: 11:30AM TIME STOP: 12:30PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND		
65			0%	100%
64			0%	100%
63			0%	100%
62			0%	100%
61			0%	100%
60			0%	100%
59			0%	100%
58			0%	100%
57			0%	100%
56			0%	100%
55			0%	100%
54			0%	100%
53			0%	100%
52			0%	100%
51			0%	100%
50			0%	100%
49			0%	100%
48			0%	100%
47		X	1%	100%
46			0%	99%
45			0%	99%
44			0%	99%
43	X X		2%	99%
42	X		1%	97%
41		X	1%	97%
40	X X X X	X X X	6%	96%*
39	X X X	X	3%	90%*
38	X X X X	X X X X	7%	86%*
37	X X	X X	3%	79%*
36	X X X X X X X X	X X X X X	11%	76%*
35	X X X X X X	X X X X X X	11%	64%*
34	X X X X X	X X X X X	9%	53%*
33	X X X X X	X X X X X X X X	12%	44%*
32	X	X X X X X X	6%	32%*
31		X X X X X X X X	7%	26%*
30		X X X X X X X	6%	19%*
29		X X X	3%	13%*
28		X	1%	10%*
27	X	X X X X X	5%	10%*
26		X X	2%	4%*
25			0%	3%*
24		X	1%	3%*
23			0%	2%*
22	X	X	2%	2%*
21			0%	0%*
20			0%	0%*
19			0%	0%*
18			0%	0%*
17			0%	0%*
16			0%	0%*
15			0%	0%*
<b>TOTAL NUMBER OF VEHICLES = 115</b>			<b>100%</b>	

**LOCATION:** CALLE PASTADERO  
Avenida Vista Montana to its terminus

**ROAD CHARACTERISTICS:**  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Stop sign at Avenida Vista Montana

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 700 **SEGMENT LENGTH (ft):** 2,990

**ACCIDENTS 3-YR TOTAL:** 1 **ACCIDENT RATE:** 2.30 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	<u>37</u> MPH	<b>10 MPH PACE:</b>	<u>31 - 40</u> MPH
<b>50TH %:</b>	<u>33</u> MPH	<b>% IN PACE:</b>	<u>77%</u>
<b>15TH %:</b>	<u>29</u> MPH	<b>% OVER PACE:</b>	<u>4%</u>
<b>AVERAGE SPEED:</b>	<u>34</u> MPH	<b>% UNDER PACE:</b>	<u>19%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the geometric design, access to several residential tracts, Rancho San Clemente Park, and multimodal activity, a speed limit posting of 30 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/18/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/30/18 TIME START: 11:35AM TIME STOP: 12:35PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50		X	1	0%	100%
49			0	0%	100%
48	X X		2	0%	100%
47			0	0%	100%
46	X X		2	0%	100%
45	X X X X X X X X X X		10	1%	99%
44	X X X X		4	0%	98%
43			0	0%	98%
42	X X X X X X X X X X X X X X		14	1%	98%
41	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	32	3%	97%
40	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X	38	4%	93%
39	X X X X X X X X X X X X X X X X X X X X	X X X X	26	3%	90%
38	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	41	4%	87%
37	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	49	5%	83%
36	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	47	5%	78%
35	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	60	6%	73%
34	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	55	6%	67%
33	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	50	5%	62%
32	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	60	6%	57%
31	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	60	6%	51%
30	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	60	6%	45%
29	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	60	6%	39%
28	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	56	6%	33%
27	X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	40	4%	27%
26	X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	40	4%	23%
25	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	59	6%	19%
24	X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	42	4%	13%
23	X X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X X	39	4%	9%
22	X X X X X X X X X X X X X X X X X X X X		16	2%	5%
21	X X X X X X X X X X X X X X X X X X X X		14	1%	4%
20	X X X	X X X	6	1%	2%
19	X X X X X	X	6	1%	2%
18	X X X		3	0%	1%
17	X X		2	0%	1%
16			0	0%	0%
15	X X X X		4	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 998</b>			<b>998</b>	<b>100%</b>	

**LOCATION:** AVENIDA PICO  
Calle De Los Molinos to Calle Frontera/Avenida Presidio

**ROAD CHARACTERISTICS:**  
 Width (ft): 102-134'  
 No. of Lanes for Both Directions: 6-7  
 Horizontal Alignment Design Speed: 45 MPH  
 Vertical Alignment Design Speed: 45 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Traffic signal lights at Los Molinos, I-5, High School Entrance/Exit and at Ave. Presidio

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: high  
 Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 46,000      **SEGMENT LENGTH (ft):** 3,500

**ACCIDENTS 3-YR TOTAL:** 31      **ACCIDENT RATE:** 0.93 accidents per million  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH      **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>37</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>28 - 37</u>	<b>MPH</b>
<b>50TH %:</b>	<u>31</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>56%</u>	
<b>15TH %:</b>	<u>24</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>17%</u>	
<b>AVERAGE SPEED:</b>	<u>31</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>27%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/30/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/20/19 TIME START: 12:00 PM TIME STOP: 12:20 PM  
 DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62	X	X	2	1%	100%
61			0	0%	99%
60		X	1	0%	99%
59		X X	2	1%	99%
58		X	1	0%	98%
57		X X X	3	1%	97%
56	X		1	0%	96%
55	X X	X X	4	2%	96%
54	X X	X X X X X	8	3%	94%
53	X X	X X X X	6	3%	90%
52	X X X X X	X X X X	9	4%	88%
51	X X X X	X X X X X X X	12	5%	84%
50	X X X X	X X X X X X X X	13	6%	79%
49	X X X X X X	X X X X X X X X X X X X	22	10%	73%
48	X X X X X X X	X X X X X X X X X X	18	8%	63%
47	X X X X X X X X X X X X X X	X X X X X X X X X X X X	27	12%	55%
46	X X X X	X X X X X X X X X X	15	7%	44%
45	X X X X X X X X X X X	X X X X X X X X X X	19	8%	37%
44	X X X X X X X X X X X X X X	X X X X X X X X X X X X	25	11%	29%
43	X X X X	X X X X X X X X X X X X	16	7%	18%
42	X X X X X X	X X X X X X	11	5%	11%
41		X	1	0%	6%
40	X X X	X	4	2%	6%
39	X X	X X	4	2%	4%
38	X		1	0%	2%
37	X X X	X	4	2%	2%
36			0	0%	0%
35			0	0%	0%
34			0	0%	0%
33			0	0%	0%
32			0	0%	0%
31			0	0%	0%
30			0	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 229			229	100%	

LOCATION: AVENIDA PICO  
Calle Frontera / Avenida Presidio to Calle Amanecer

ROAD CHARACTERISTICS:  
 Width (ft): 102 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 6-7 On-Street Parking: no  
 Horizontal Alignment Design Speed: 55 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Traffic signals at Ave. Presidio, CI Del Cerro, and CI Amanecer

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 43,300 SEGMENT LENGTH (ft): 3,500

ACCIDENTS 3-YR TOTAL: 11 ACCIDENT RATE: 0.35 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

EXISTING SPEED LIMIT: 45 MPH APPROVED SPEED LIMIT: **45 MPH**

85TH %:	<u>51</u>	MPH	10 MPH PACE:	<u>42 - 51</u>	MPH
50TH %:	<u>46</u>	MPH	% IN PACE:	<u>78%</u>	
15TH %:	<u>42</u>	MPH	% OVER PACE:	<u>16%</u>	
AVERAGE SPEED:	<u>47</u>	MPH	% UNDER PACE:	<u>6%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design, access to San Clemente High School and commercial establishments, Class 2 bike lanes, and multimodal activity, a speed limit posting of 45 MPH found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 2/20/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/20/19 TIME START: 11:30 AM TIME STOP: 11:45 AM  
 DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57	X		1	0%	100%
56			0	0%	100%
55	X X		2	1%	100%
54	X X		2	1%	99%
53	X	X	2	1%	98%
52		X	1	0%	97%
51	X	X X X X X	7	3%	96%
50	X X X X X X	X X	8	4%	93%
49	X X X	X X X	6	3%	89%
48	X X X X X	X X X X X X	12	6%	86%
47	X X X X X X	X X X X X X X X X X	17	8%	80%
46	X X X X X X X X X X X X X X	X X X X X X X X	22	11%	72%
45	X X X X X X X	X X X X X X X X X X	18	9%	62%
44	X X X X X X X X X	X X X X X X X X X X X X X	21	10%	53%
43	X X X X X X X X X X X X X	X X X X X	17	8%	43%
42	X X X X X X X X X X	X X X X X X X X X X	19	9%	35%
41	X X X X X X X X X X X X	X X X X X X X X X X	21	10%	26%
40	X X X X X	X X X X	8	4%	16%
39	X X X X X	X	6	3%	12%
38	X X X X X	X X X X X	9	4%	9%
37	X X X X X	X	6	3%	5%
36	X X X X	X	4	2%	2%
35			0	0%	0%
34			0	0%	0%
33			0	0%	0%
32			0	0%	0%
31			0	0%	0%
30			0	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 209</b>			<b>209</b>	<b>100%</b>	

**LOCATION:** AVENIDA PICO  
Calle Amanecer to Avenida La Pata

**ROAD CHARACTERISTICS:**  
 Width (ft): 102 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 6 On-Street Parking: no  
 Horizontal Alignment Design Speed: 55 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 45 MPH Traffic Controls: Signalized at Calle Amanecer and Ave. Pico

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 29,000 **SEGMENT LENGTH (ft):** 3,550

**ACCIDENTS 3-YR TOTAL:** 7 **ACCIDENT RATE:** 0.33 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 45 MPH **APPROVED SPEED LIMIT:** 45 MPH

<b>85TH %:</b>	<u>47</u> MPH	<b>10 MPH PACE:</b>	<u>41 - 50</u> MPH
<b>50TH %:</b>	<u>43</u> MPH	<b>% IN PACE:</b>	<u>77%</u>
<b>15TH %:</b>	<u>40</u> MPH	<b>% OVER PACE:</b>	<u>7%</u>
<b>AVERAGE SPEED:</b>	<u>44</u> MPH	<b>% UNDER PACE:</b>	<u>16%</u>

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 45 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/20/2024





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/20/19 TIME START: 11:45 AM TIME STOP: 12:00 PM  
 DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65		X	1	0%	100%
64			0	0%	100%
63			0	0%	100%
62	X		1	0%	100%
61			0	0%	99%
60	X		1	0%	99%
59			0	0%	99%
58			0	0%	99%
57			0	0%	99%
56	X X X		3	1%	99%
55	X X	X	3	1%	97%
54	X X X	X	4	2%	96%
53	X	X	2	1%	94%
52	X X	X X X X	6	3%	93%
51	X	X X X X X X X X X	11	5%	90%
50	X X	X X X X	6	3%	84%
49	X X X X X	X X X X X X	11	5%	81%
48	X X X X X X X X	X X X X X X	14	7%	76%
47	X X X X X X X X X	X X X X X X X	17	8%	69%
46	X X X X X X	X X X X X X X X	14	7%	60%
45	X X X X X X X	X X X X X X X X X X X X X X X	22	11%	53%
44	X X X X X X	X X X X X	11	5%	43%
43	X X X X X X	X X X X X X X X X X X X	18	9%	37%
42	X X X X	X X X X X X X X X X	14	7%	28%
41	X X X	X X X X X X X X X X	13	6%	21%
40	X X X X X	X X X	8	4%	15%
39	X	X X X X X	6	3%	11%
38	X X	X X X X X	7	3%	8%
37	X X X	X X	5	2%	4%
36		X X	2	1%	2%
35		X	1	0%	1%
34			0	0%	0%
33	X		1	0%	0%
32			0	0%	0%
31			0	0%	0%
30			0	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 202</b>			<b>202</b>	<b>100%</b>	

**LOCATION:** AVENIDA PICO  
Avenida La Pata to Avenida Vista Hermosa

**ROAD CHARACTERISTICS:**  
 Width (ft): 102 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 6 On-Street Parking: no  
 Horizontal Alignment Design Speed: 65 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 65 MPH Traffic Controls: Signalized at Ave La Pata and at Ave Vista Hermosa

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 21,200 **SEGMENT LENGTH (ft):** 2,880

**ACCIDENTS 3-YR TOTAL:** 5 **ACCIDENT RATE:** 0.39 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 50 MPH **APPROVED SPEED LIMIT:** 50 MPH

<b>85TH %:</b>	<u>50</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>40 - 49</u>	<b>MPH</b>
<b>50TH %:</b>	<u>44</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>70%</u>	
<b>15TH %:</b>	<u>40</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>19%</u>	
<b>AVERAGE SPEED:</b>	<u>45</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>11%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 50 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/20/2024





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/10/18 TIME START: 9:00AM TIME STOP: 12:00PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47		X	1	1%	100%
46	X		1	1%	99%
45		X X X	3	3%	98%
44	X X X	X X X	6	6%	95%
43	X X X	X X X	6	6%	89%
42	X X X X X	X X	7	7%	83%
41	X X X X	X X X X	8	8%	76%
40	X X X X X X	X X X	9	9%	68%
39	X X X X X	X X X	8	8%	59%
38	X X X X X	X X X	8	8%	51%
37	X X	X X X X	6	6%	43%
36	X X	X X X X X	7	7%	37%
35	X X X X	X X X X	8	8%	30%
34	X X X X	X X X X	8	8%	22%
33	X X X	X X X X	7	7%	14%
32	X	X X X X	5	5%	7%
31			0	0%	2%
30			0	0%	2%
29	X		1	1%	2%
28			0	0%	1%
27			0	0%	1%
26			0	0%	1%
25	X		1	1%	1%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 100</b>			<b>100</b>	<b>100%</b>	

**LOCATION:** PORTICO DEL SUR / PORTICO DEL NORTE  
Camino De Los Mares west to Camino De Los Mares east

**ROAD CHARACTERISTICS:**  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes (limited)  
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized at Cam. De Los Mares (east)

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 2,200 **SEGMENT LENGTH (ft):** 5,450

**ACCIDENTS 3-YR TOTAL:** 0 **ACCIDENT RATE:** 0.00 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<b>42</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>33 - 42</u>	<b>MPH</b>
<b>50TH %:</b>	<u>38</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>76%</u>	
<b>15TH %:</b>	<u>33</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>17%</u>	
<b>AVERAGE SPEED:</b>	<u>38</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>7%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the street geometric design, including horizontal and vertical curvature, and access to several residential tracts, a speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/10/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/19/19 TIME START: 10:30 AM TIME STOP: 12:00 PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47	X		1	1%	100%
46		X X	2	2%	99%
45			0	0%	97%
44			0	0%	97%
43			0	0%	97%
42			0	0%	97%
41	X X X	X	4	4%	97%
40	X		1	1%	93%
39	X X		2	2%	92%
38	X X	X X X X	6	6%	90%
37	X X X	X X	5	5%	85%
36	X X	X X	4	4%	80%
35	X X X X X	X X X X X X X X	13	12%	76%
34	X X X X X	X X X X X	10	10%	64%
33	X X X X	X X X X	8	8%	54%
32	X X X X	X X X X X	9	9%	47%
31	X X X X	X X X X	8	8%	38%
30	X X X X	X X	6	6%	30%
29	X X X X	X X X X	8	8%	25%
28	X X	X X X	5	5%	17%
27	X X X	X	4	4%	12%
26	X X	X	3	3%	9%
25	X	X X	3	3%	6%
24	X		1	1%	3%
23			0	0%	2%
22	X		1	1%	2%
21		X	1	1%	1%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 105			105	100%	

**LOCATION:** AVENIDA DEL PRESIDENTE  
Avenida Valencia to Avenida Califia

**ROAD CHARACTERISTICS:**  
 Width (ft): 32  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 35 MPH  
 Vertical Alignment Design Speed: 40 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: yes (limited)  
 Crosswalks: yes  
 Traffic Controls: 11 stops on the side streets from Avenida Valencia to Avenida Califia

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: medium  
 Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 3,500      **SEGMENT LENGTH (ft):** 4,000

**ACCIDENTS 3-YR TOTAL:** 0      **ACCIDENT RATE:** 0.00 accidents per million  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 30 MPH      **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	<u>37</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>29 - 38</u>	<b>MPH</b>
<b>50TH %:</b>	<u>32</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>73%</u>	
<b>15TH %:</b>	<u>27</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>10%</u>	
<b>AVERAGE SPEED:</b>	<u>33</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>17%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the residential driveway density fronting the street, access to Concordia Elementary School and beach areas to the west, Class 2 bike lanes and multimodal activity, a speed limit posting of 30 MPH found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/19/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/19/18 TIME START: 11:04AM TIME STOP: 12:04PM  
 DAY OF WEEK: Wednesday WEATHER: Sunny

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42		X	1	1%	100%
41			0	0%	99%
40		X X	2	2%	99%
39			0	0%	97%
38	X		1	1%	97%
37	X X	X X X X X	7	7%	96%
36	X		2	2%	89%
35	X X	X X X X X	7	7%	87%
34	X X X	X X	5	5%	80%
33	X X	X X X X	6	6%	75%
32	X X X	X X X X X	8	8%	69%
31	X X X X X	X X X X X	10	10%	61%
30	X X X X	X X X X X X	10	10%	51%
29	X X X X	X X	6	6%	42%
28	X	X X X X	5	5%	36%
27	X X X X X X X X	X	9	9%	31%
26	X	X	2	2%	22%
25	X X X	X X X	6	6%	20%
24	X X	X X	4	4%	14%
23	X X	X X	4	4%	10%
22	X X		2	2%	6%
21	X	X	2	2%	4%
20			0	0%	2%
19			0	0%	2%
18	X X		2	2%	2%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 101			101	100%	

LOCATION: **AVENIDA DEL PRESIDENTE**  
 Avenida Califia to Cristianitos Road

**ROAD CHARACTERISTICS:**

Width (ft): 32 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes (limited)  
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: 11 stops from Avenida Valencia to Avenida Califia.

**ROADWAY CONDITIONS:**

Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 5,100

SEGMENT LENGTH (ft): 5,500

ACCIDENTS 3-YR TOTAL: 3  
 (1/1/2015 - 12/31/2017)

ACCIDENT RATE: 0.52 accidents per million  
 Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 30 MPH

APPROVED SPEED LIMIT: **30 MPH**

**85TH %:** 34 MPH

10 MPH PACE: 27 - 36 MPH

50TH %: 29 MPH

% IN PACE: 67%

15TH %: 24 MPH

% OVER PACE: 11%

AVERAGE SPEED: 30 MPH

% UNDER PACE: 22%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 12/19/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/13/19 TIME START: 10:35 AM TIME STOP: 11:15 AM

DAY OF WEEK: Wednesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41		X	1	1%	100%
40		X	1	1%	99%
39		X X	2	2%	98%
38		X	1	1%	97%
37			0	0%	96%
36	X	X X	3	2%	96%
35	X X	X X X X	6	5%	94%
34		X X X	3	2%	89%
33	X	X X X X X X X X X	11	9%	86%
32	X X X X X X X X X X	X X X X X X X X X X X	22	18%	77%
31	X X X X X X	X X X X X X X X	14	11%	60%
30	X X X X X X X	X X X X X X X X	15	12%	48%
29	X X X X X X X X X	X X X X X X X X X	18	15%	36%
28	X X X	X X	5	4%	22%
27	X X X	X X	5	4%	18%
26	X X X X	X X X X X X	10	8%	14%
25	X	X X X X	5	4%	6%
24	X	X	2	2%	2%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 124			124	100%	

LOCATION: AVENIDA PRESIDIO  
El Camino Real to Calle Escuela

ROAD CHARACTERISTICS:  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: Stop signs at 23 intersections.

ROADWAY CONDITIONS:  
 Lateral Visibility: limited Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 2,200 SEGMENT LENGTH (ft): 7,920

ACCIDENTS 3-YR TOTAL: 5 ACCIDENT RATE: 1.38 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 25 MPH APPROVED SPEED LIMIT: 25 MPH

<b>85TH %:</b>	<b>32</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>26 - 35</u>	<b>MPH</b>
<b>50TH %:</b>	<u>30</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>88%</u>	
<b>15TH %:</b>	<u>26</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>6%</u>	
<b>AVERAGE SPEED:</b>	<u>31</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>6%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street, residential driveway density, proximity/access to San Clemente High School, areas with limited sight distance, and multimodal activity, a speed limit posting of 25 MPH is found to be appropriate and justified.

OBSERVED BY: Jane Mrotek STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 3/12/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/18/18 TIME START: 2:00PM TIME STOP: 2:30PM

DAY OF WEEK: Tuesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39	X		1	0%	100%
38	X		1	0%	100%
37			0	0%	99%
36	X		1	0%	99%
35	X X X X X X X		7	3%	99%
34	X X X X		4	2%	95%
33	X X X X X	X	6	3%	94%
32	X X X X X	X	6	3%	91%
31	X X X X X X X X X X		10	5%	88%
30	X X X X X X X X X X X	X	13	6%	84%
29	X X X X X X X X X X X X X	X X X X X X X	25	11%	78%
28	X X X X X X X X X X X X X	X X X X X X	20	9%	66%
27	X X X X X X X X X X X X X	X X X X X X X X X	21	10%	57%
26	X X X X X X X X X X X X X	X X X X X X X X X X X X X	28	13%	47%
25	X X X X X X	X X X X X X X X X X X X X	19	9%	35%
24	X X X X X X	X X X X X X X X X X X X X X	20	9%	26%
23	X X X X	X X X X X X	9	4%	17%
22		X X X X X X X X X X X	10	5%	13%
21	X X	X X X X X X	8	4%	8%
20	X	X X X X X X X	8	4%	5%
19	X	X	2	1%	1%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 219			<b>219</b>	<b>100%</b>	

**LOCATION:** AVENIDA PRESIDIO  
Calle Escuela to Avenida Pico

**ROAD CHARACTERISTICS:**  
 Width (ft): 40      Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2      On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH      Crosswalks: yes  
 Vertical Alignment Design Speed: 25 MPH      Traffic Controls: Traffic signal light at Ave Pico.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited      Driveway Density: medium  
 Surface Condition: good      Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 8,500      **SEGMENT LENGTH (ft):** 1,745

**ACCIDENTS 3-YR TOTAL:** 2      **ACCIDENT RATE:** 0.65 accidents per million  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 25 MPH      **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b>	<b>30</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>22 - 31</u>	<b>MPH</b>
<b>50TH %:</b>	<u>26</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>80%</u>	
<b>15TH %:</b>	<u>22</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>12%</u>	
<b>AVERAGE SPEED:</b>	<u>27</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>8%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street, limited line of sight, high pedestrian volumes, proximity to San Clemente High School, and commercial driveways fronting the street, a speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/18/2023

\* \* \* P A C E \* \* \*



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/20/19 TIME START: 10:30 AM TIME STOP: 11:30 AM  
 DAY OF WEEK: Wednesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43	X		1	1%	100%
42			0	0%	99%
41			0	0%	99%
40		X	1	1%	99%
39		X	1	1%	98%
38	X X X		3	3%	97%
37	X X		2	2%	94%
36	X X X	X	4	4%	92%
35	X	X	2	2%	88%
34	X X	X	3	3%	86%
33	X X	X	3	3%	83%
32	X X X X X X	X X	8	8%	80%
31	X X X	X X X X	7	7%	72%
30	X X X X X X X	X X X X	11	11%	65%
29	X X	X X X X X X	8	8%	54%
28	X X X	X X X X	7	7%	47%
27	X X X	X X X X	7	7%	40%
26	X X X	X X X X	7	7%	33%
25	X X	X X X X X X	8	8%	26%
24	X	X X X X	5	5%	18%
23	X X	X	3	3%	13%
22			0	0%	10%
21		X	1	1%	10%
20	X		1	1%	9%
19	X X X	X X	5	5%	8%
18	X	X	2	2%	3%
17	X		1	1%	1%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 101			101	100%	

LOCATION: **PUERTA DEL SOL / AVENIDA VISTA HERMOSA**  
 Avenida Pico to Avenida Pico

ROAD CHARACTERISTICS:  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 35 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Signalized at Avenida Vista Hermosa, and at Alicante

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: high

AVERAGE DAILY TRAFFIC: 3,500 SEGMENT LENGTH (ft): 2,500

ACCIDENTS 3-YR TOTAL: 1 ACCIDENT RATE: 0.55 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 30 MPH APPROVED SPEED LIMIT: **30 MPH**

<b>85TH %:</b>	<b>33</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>24 - 33</u>	<u>MPH</u>
<b>50TH %:</b>	<u>28</u>	<u>MPH</u>	<b>% IN PACE:</b>	<u>70%</u>	
<b>15TH %:</b>	<u>23</u>	<u>MPH</u>	<b>% OVER PACE:</b>	<u>17%</u>	
<b>AVERAGE SPEED:</b>	<u>29</u>	<u>MPH</u>	<b>% UNDER PACE:</b>	<u>13%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 2/20/2024





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/19/19 TIME START: 3:28 PM TIME STOP: 4:08 PM

DAY OF WEEK: Tuesday WEATHER: Sunny

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49	X		1	0%	100%
48			0	0%	100%
47			0	0%	100%
46	X X X X		4	2%	100%
45	X X X X	X X	6	3%	98%
44	X X X X	X	5	2%	95%
43	X X	X	3	1%	92%
42	X X X X	X X X X	8	4%	91%
41	X X X X X X X	X X X X X X X	14	7%	87%
40	X X X	X X X X X X X	10	5%	80%
39	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	33	16%	75%
38	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	24	12%	58%
37	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	35	17%	46%
36	X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	26	13%	29%
35	X X X X X X X X	X X X X	12	6%	16%
34	X X X X X X	X X X X X X	13	6%	10%
33	X X	X X	4	2%	3%
32	X		1	0%	1%
31		X	1	0%	1%
30		X	1	0%	0%
29			0	0%	0%
28			0	0%	0%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 201			201	100%	

LOCATION: **CALLE SALUDA**  
Avenida La Pata to Avenida Fresas

ROAD CHARACTERISTICS:  
 Width (ft): 44 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 50 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 55 MPH Traffic Controls: signalized at Ave Fresas and Ave La Pata.

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 8,400 SEGMENT LENGTH (ft): 1,750

ACCIDENTS 3-YR TOTAL: 2 ACCIDENT RATE: 0.66 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: **35 MPH**

<b>85TH %:</b>	<b>40</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>33 - 42</u>	<b>MPH</b>
<b>50TH %:</b>	<u>37</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>89%</u>	
<b>15TH %:</b>	<u>35</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>9%</u>	
<b>AVERAGE SPEED:</b>	<u>38</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>1%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on the geometric design of the street, direct access to residential tracts, Class 2 bike lanes and multimodal activity, a speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Jane Mrotek STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 3/18/2024





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/17/18 TIME START: 11:30AM TIME STOP: 12:30PM

DAY OF WEEK: Monday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41	X X		2	2%	100%
40			0	0%	98%
39			0	0%	98%
38	X		1	1%	98%
37	X X		2	2%	98%
36	X		1	1%	96%
35	X X		2	2%	95%
34	X	X X X X X X	7	6%	93%*
33	X X X X	X X X X X X X X	12	10%	88%*
32	X X X	X X X	6	5%	78%*
31	X X X X X X	X X	8	7%	73%*
30	X X X X X X X	X X X	10	8%	67%*
29	X X X	X X X X X X	9	7%	59%*
28	X X X X	X X X X X X X	11	9%	51%*
27	X X	X X X X X X	8	7%	42%*
26	X X X X X	X X X X X	10	8%	36%*
25	X	X X X X X	6	5%	28%*
24	X X X	X	4	3%	23%*
23	X	X X X X	5	4%	20%*
22	X X X	X X X	6	5%	15%*
21	X	X X X	4	3%	11%*
20	X X		2	2%	7%*
19	X X		2	2%	6%*
18	X X		2	2%	4%*
17		X	1	1%	2%*
16		X	1	1%	2%*
15		X	1	1%	1%*
TOTAL NUMBER OF VEHICLES = 123			123	100%	

LOCATION: AVENIDA SALVADOR  
Avenida Presidio to Avenida San Pablo

ROAD CHARACTERISTICS:  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 25 MPH Traffic Controls: Stop signs at six intersections along Salvador.

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 1,600 SEGMENT LENGTH (ft): 6,870

ACCIDENTS 3-YR TOTAL: 3 ACCIDENT RATE: 1.32 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.32 vehicles miles

EXISTING SPEED LIMIT: 25 MPH APPROVED SPEED LIMIT: 25 MPH

85TH %:	<u>32</u>	MPH	10 MPH PACE:	<u>25 - 34</u>	MPH
50TH %:	<u>27</u>	MPH	% IN PACE:	<u>71%</u>	
15TH %:	<u>22</u>	MPH	% OVER PACE:	<u>7%</u>	
AVERAGE SPEED:	<u>28</u>	MPH	% UNDER PACE:	<u>23%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design, including horizontal curvature and steep grades, and high residential driveway density, a speed limit posting of 25 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 12/17/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/19/18 TIME START: 10:00AM TIME STOP: 11:00AM  
 DAY OF WEEK: Wednesday WEATHER: Sunny

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43			0	0%	100%
42			0	0%	100%
41			0	0%	100%
40			0	0%	100%
39			0	0%	100%
38			0	0%	100%
37			0	0%	100%
36			0	0%	100%
35			0	0%	100%
34		X	1	1%	100%
33	X	X	2	2%	99%
32		X	1	1%	97%
31		X X X X X X	6	5%	97%*
30	X	X X	3	3%	91%*
29		X X X X	4	3%	89%*
28	X X X	X X X X X X X X X X	13	11%	85% P
27	X X X X	X X X X X X X X X	13	11%	74% A
26	X X X X X X X	X X X X X X	13	11%	63% C
25	X X X X X X X	X X X X X X X X X X X X	20	17%	52% E
24	X X X X X X X X X X X	X X X X X X X X X	20	17%	34%*
23	X X	X X	4	3%	17%*
22	X X X X X X X	X X X	10	9%	14%*
21			0	0%	5%
20	X X X	X	4	3%	5%
19	X		1	1%	2%
18			0	0%	1%
17			0	0%	1%
16			0	0%	1%
15	X		1	1%	1%
<b>TOTAL NUMBER OF VEHICLES = 116</b>			<b>116</b>	<b>100%</b>	

**LOCATION:** AVENIDA SAN PABLO  
Avenida San Gabriel to Avenida Acapulco

**ROAD CHARACTERISTICS:**  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 25 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 35 MPH Traffic Controls: Stop sign at the intersection with Avenida San Gabriel

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 3,500 **SEGMENT LENGTH (ft):** 1,390

**ACCIDENTS 3-YR TOTAL:** 1 **ACCIDENT RATE:** 0.99 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 25 MPH **APPROVED SPEED LIMIT:** 25 MPH

<b>85TH %:</b>	<u>28</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>22 - 31</u>	<b>MPH</b>
<b>50TH %:</b>	<u>24</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>91%</u>	
<b>15TH %:</b>	<u>22</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>3%</u>	
<b>AVERAGE SPEED:</b>	<u>26</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>5%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 25 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/19/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/26/19 TIME START: 12:30 PM TIME STOP: 3:30 PM

DAY OF WEEK: Tuesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48		X	1	1%	100%
47			0	0%	99%
46			0	0%	99%
45			0	0%	99%
44	X X X	X	4	4%	99%
43	X X X	X X X X	7	7%	95%
42	X X X X X	X X X	8	8%	88%*
41	X X X X X	X X X X	9	9%	80%*
40		X X	2	2%	71%*
39	X X X	X X X X X X	9	9%	69% P
38	X X X X X X		6	6%	60% A
37	X X X	X X	5	5%	54% C
36	X X	X X	4	4%	49% E
35	X X X X	X X X X	8	8%	45%*
34	X X X X X X	X X X X	10	10%	37%*
33	X X X X	X X X X	8	8%	27%*
32		X X X X	4	4%	19%
31	X X	X X	4	4%	15%
30		X X X X	4	4%	11%
29			0	0%	7%
28			0	0%	7%
27		X X	2	2%	7%
26		X X	2	2%	5%
25			0	0%	3%
24	X		1	1%	3%
23	X		1	1%	2%
22			0	0%	1%
21		X	1	1%	1%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 100			100	100%	

**LOCATION:** AVENIDA SAN PABLO  
Avenida Acapulco to northerly terminus

**ROAD CHARACTERISTICS:**  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: n/a Crosswalks: yes  
 Vertical Alignment Design Speed: n/a Traffic Controls: Stop signs at nine intersections along Avenida San Pablo.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 1,500 **SEGMENT LENGTH (ft):** 3,800

**ACCIDENTS 3-YR TOTAL:** 0 **ACCIDENT RATE:** 0.00 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>41</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>33 - 42</u>	<b>MPH</b>
<b>50TH %:</b>	<u>36</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>69%</u>	
<b>15TH %:</b>	<u>31</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>12%</u>	
<b>AVERAGE SPEED:</b>	<u>36</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>19%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street, including steep grade, access to single and multi family residential tracts, and trail access at the street terminus, a speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 2/26/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/19/19 TIME START: 2:30 PM TIME STOP: 3:18 PM

DAY OF WEEK: Tuesday WEATHER: Overcast

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45			0	0%	100%
44			0	0%	100%
43	X		1	1%	100%
42	X	X X	3	2%	99%
41		X	1	1%	97%
40		X X X X X	5	3%	97%*
39	X X X X	X X X X X X X	11	7%	93%*
38	X	X X X	4	3%	86%*
37	X X X X X	X X X X X X	11	7%	83%*
36	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	33	22%	76%*
35	X X X X X X X X	X X X X X X X X	14	9%	54%*
34	X X X X X	X X X X X X	11	7%	45%*
33	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	28	19%	38%*
32	X X X X X X X	X X X X X X	11	7%	19%*
31	X X X X	X X X X X	7	5%	12%*
30	X X X	X X	5	3%	7%*
29	X X	X X X	5	3%	4%*
28	X		1	1%	1%*
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 151			151	100%	

LOCATION: CALLE SARMENTOSO  
Camino Vera Cruz to Camino Del Rio

ROAD CHARACTERISTICS:  
 Width (ft): 40 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 40 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 40 MPH Traffic Controls: Signalized at the intersection with Camino Vera Cruz

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 5,200 SEGMENT LENGTH (ft): 4,425

ACCIDENTS 3-YR TOTAL: 1 ACCIDENT RATE: 0.21 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10

EXISTING SPEED LIMIT: 30 MPH APPROVED SPEED LIMIT: 30 MPH

85TH %:	<u>37</u>	MPH	10 MPH PACE:	<u>31 - 40</u>	MPH
50TH %:	<u>34</u>	MPH	% IN PACE:	<u>89%</u>	
15TH %:	<u>31</u>	MPH	% OVER PACE:	<u>3%</u>	
AVERAGE SPEED:	<u>35</u>	MPH	% UNDER PACE:	<u>7%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design of the street, access to multiple residential tracts, Bernice Ayer Middle School and Truman Benedict Elementary School, proximity to Forster Ranch Community Park, Class 2 bike lanes, and multimodal activity, a speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 3/18/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/4/18 TIME START: 9:00AM TIME STOP: 10:00AM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45		X	1	0%	100%
44			0	0%	100%
43		X X	2	1%	100%
42		X X	2	1%	99%
41		X X X X	4	1%	98%
40		X X X X	4	1%	97%
39	X	X X X X X	6	2%	96%
38	X X	X X X X X X X X X X	12	4%	94%
37	X X X X X X X X	X X X X X X	13	4%	90%*
36	X X X X X	X X X X X X X X X X X X	16	5%	87%*
35	X X X X X X X	X X X X X X X X X X X X X X	20	6%	82%*
34	X X X X	X X X X X X X X X X X X X X X X	19	6%	75%* P
33	X X X X	X X X X X X X X X X X X X	15	5%	70%* A
32	X X X X X X X X X X X	X X X X X X X X X X X	19	6%	65%* C
31	X X X X X	X X X X X X X X	11	3%	59%* E
30	X X X X X X X X X X X	X X X X X X X X X X X X X X X X	32	10%	56%*
29	X X X X X X	X X X X X X X	11	3%	46%*
28	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	27	8%	43%*
27	X X X X X X X X X X	X X X	12	4%	34%*
26	X X X X X X X X X X X	X X X X X X X	17	5%	31%*
25	X X X X X X X X X X X	X X X X X	14	4%	25%*
24	X X X X X X X X X X	X X	10	3%	21%*
23	X X X X X X X X X X X		9	3%	18%*
22	X X X X X X X X X X X	X	11	3%	15%*
21	X X X X X X X X X X X	X X X X X	14	4%	12%*
20	X X X X X X	X	6	2%	8%*
19	X X X X X		4	1%	6%*
18	X X	X	3	1%	5%*
17		X X X X	4	1%	4%*
16	X X X X X	X	6	2%	2%*
15	X X		2	1%	1%*
TOTAL NUMBER OF VEHICLES = 326			326	100%	

LOCATION: AVENIDA TALEGA  
Avenida Vista Hermosa to Calle Saluda

ROAD CHARACTERISTICS:  
 Width (ft): 78 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 60 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 60 MPH Traffic Controls: Traffic signal at the intersections of Avenida Vista Hermosa and Calle Portofino

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 9,800 SEGMENT LENGTH (ft) 3,050

ACCIDENTS 3-YR TOTAL: 4 ACCIDENT RATE: 0.65 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

EXISTING SPEED LIMIT: 35 MPH APPROVED SPEED LIMIT: 35 MPH

<b>85TH %:</b>	<b>35</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>28 - 37</u>	<b>MPH</b>
<b>50TH %:</b>	<u>29</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>56%</u>	
<b>15TH %:</b>	<u>22</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>10%</u>	
<b>AVERAGE SPEED:</b>	<u>30</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>34%</u>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 35 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 12/4/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/4/18 TIME START: 10:15AM TIME STOP: 11:15AM

DAY OF WEEK: Tuesday WEATHER: Cloudy

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60		X X	2	1%	100%
59			0	0%	99%
58		X	1	0%	99%
57			0	0%	99%
56			0	0%	99%
55			0	0%	99%
54			0	0%	99%
53			0	0%	99%
52	X X	X X	4	2%	99%
51		X	1	0%	97%
50	X X X X X	X X X	8	3%	97%
49	X	X X X X X X X X	10	4%	94%
48	X	X X X X X	6	2%	90%
47	X X X	X X X X	7	3%	88%
46		X X X X X X X	7	3%	85%
45	X X X X X X X X X X	X X X X X X X X X X X X X X X X	27	10%	82%
44		X X X	3	1%	72%
43	X X	X X X X X X X X	10	4%	71%
42	X X X X X X X X	X X X X X X X X X X X X X X	21	8%	67%
41	X X X	X X X X X X X X	11	4%	59%
40	X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X	32	12%	54%
39	X X X X X X X X X X	X X X X	13	5%	42%
38	X X X	X X X X X X X X X X X X X X X X X X	18	7%	37%
37	X X X X X X X X X X X X X X X X X X	X X X X X X X X	22	9%	30%
36	X X X X X X	X X X X	10	4%	21%
35	X X X X X X X X X X X X	X X X	14	5%	17%
34	X	X X X X X	6	2%	12%
33	X X X X X X	X X	7	3%	10%
32		X	1	0%	7%
31	X	X	2	1%	7%
30	X X X	X X X X X X X	10	4%	6%
29			0	0%	2%
28	X		1	0%	2%
27			0	0%	2%
26		X X	2	1%	2%
25			0	0%	1%
24	X		1	0%	1%
23	X		1	0%	0%
22			0	0%	0%
21			0	0%	0%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES =</b> 258			<b>258</b>	<b>100%</b>	

**LOCATION:** AVENIDA TALEGA  
Calle Saluda to East City Limit

**ROAD CHARACTERISTICS:**  
 Width (ft): 78 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 60 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 60 MPH Traffic Controls: Traffic signal at the intersection of Calle Saluda, Cm Viento Fuerte East, Cm Viento Fuerte West

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 9,600 **SEGMENT LENGTH (ft):** 6,500

**ACCIDENTS 3-YR TOTAL:** 2 **ACCIDENT RATE:** 0.15 accidents per million vehicles miles  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48

**EXISTING SPEED LIMIT:** 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

<b>85TH %:</b>	<b>46</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>36 - 45</u>	<b>MPH</b>
<b>50TH %:</b>	<u>39</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>65%</u>	
<b>15TH %:</b>	<u>34</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>18%</u>	
<b>AVERAGE SPEED:</b>	<u>41</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>17%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on geometric design, proximity to Vista Del Mar Elementary & Middle Schools, Liberty and Tierra Grande Parks, and golf course, and Class 2 bike lane, a speed limit posting of 40 MPH found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/4/2023





# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/2018 TIME START: 11:30AM TIME STOP: 12:30PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUML. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46			0	0%	100%
45		X	1	0%	100%
44			0	0%	100%
43		X X	2	1%	100%
42		X X	2	1%	99%
41		X X X X	4	1%	98%
40		X X X X	4	1%	97%
39	X	X X X X X	6	2%	96%
38	X X	X X X X X X X X X X	12	4%	94%
37	X X X X X X X	X X X X X X	13	4%	90%*
36	X X X X	X X X X X X X X X X X	16	5%	87%*
35	X X X X X X	X X X X X X X X X X X X X	20	6%	82%*
34	X X X X	X X X X X X X X X X X X X X	19	6%	75%* P
33	X X X	X X X X X X X X X X X	15	5%	70%* A
32	X X X X X X X X X X	X X X X X X X X X	19	6%	65%* C
31	X X X X	X X X X X X X	11	3%	59%* E
30	X X X X X X X X X X	X X X X X X X X X X X X X X X	32	10%	56%*
29	X X X X X	X X X X X X	11	3%	46%*
28	X X X X X X X X X X X X X X	X X X X X X X X X X X X X	27	8%	43%*
27	X X X X X X X X X	X X X	12	4%	34%*
26	X X X X X X X X X X	X X X X X X	17	5%	31%
25	X X X X X X X X X X	X X X X	14	4%	25%
24	X X X X X X X X	X X	10	3%	21%
23	X X X X X X X X X		9	3%	18%
22	X X X X X X X X X X	X	11	3%	15%
21	X X X X X X X X X X	X X X X X	14	4%	12%
20	X X X X X	X	6	2%	8%
19	X X X X		4	1%	6%
18	X X	X	3	1%	5%
17		X X X X	4	1%	4%
16	X X X X X	X	6	2%	2%
15	X X		2	1%	1%
<b>TOTAL NUMBER OF VEHICLES = 326</b>			<b>326</b>	<b>100%</b>	

**LOCATION:** AVENIDA VAQUERO  
Camino De Los Mares to Calle Guadalajara

**ROAD CHARACTERISTICS:**  
 Width (ft): 56 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Traffic signal at Cm de los Mares; Stop signs at Cl Vallarta & Cl Guadalajara.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good Driveway Density: medium  
 Surface Condition: good Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 6,200 **SEGMENT LENGTH (ft):** 1,660

**ACCIDENTS 3-YR TOTAL:** 6 **ACCIDENT RATE:** 2.81 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Orange County Rate (2010): 1.10 vehicles miles

**EXISTING SPEED LIMIT:** 30 MPH **APPROVED SPEED LIMIT:** 30 MPH

<b>85TH %:</b>	<u>35</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>28 - 37</u>	<b>MPH</b>
<b>50TH %:</b>	<u>29</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>56%</u>	
<b>15TH %:</b>	<u>22</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>10%</u>	
<b>AVERAGE SPEED:</b>	<u>30</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>34%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on street geometric design, residential driveway density, proximity to golf use, Class 2 bike lanes, multimodal activity, and accident rate, a speed limit posting of 30 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 2/25/2019 TIME START: 12:30 PM TIME STOP: 1:00 PM

DAY OF WEEK: Monday WEATHER: Overcast

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47		X	1	0%	100%
46			0	0%	100%
45			0	0%	100%
44	X		1	0%	100%
43	X	X	2	1%	99%
42	X	X	2	1%	98%
41		X	1	0%	97%
40	X X X	X X X X X	8	4%	97%
39	X X X X		4	2%	93%
38	X X X X X X X X X X X X	X X X X X X X X	19	9%	91%*
37	X X X X X X X	X X X X X X X X X X	18	8%	83%*
36	X X X X X X	X X X X X X X	13	6%	75%*
35	X X X X X X X	X X X X X X X X X X	17	8%	69%*
34	X X X X X X X X X X X X X X X X	X X X X X X X	24	11%	61%*
33	X X X X X X X X X X X X X X X X	X X X X X X X X X X	28	13%	50%*
32	X X X X X X X X X X X	X X X X X X X X X	20	9%	37%*
31	X X X X X X X X X X X	X X X X X X X X	18	8%	28%*
30	X X X X	X X X X X	9	4%	20%*
29	X X X X X X X X	X	9	4%	16%*
28	X X X X X X X X X	X X	11	5%	12%*
27	X X X X		4	2%	7%*
26	X X X X X	X	6	3%	5%*
25		X	1	0%	2%*
24	X X X X		4	2%	2%*
23			0	0%	0%*
22			0	0%	0%*
21			0	0%	0%*
20			0	0%	0%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
TOTAL NUMBER OF VEHICLES = 220			220	100%	

LOCATION: AVENIDA VAQUERO  
Calle Guadalajara to Calle Vista Torito

ROAD CHARACTERISTICS:  
 Width (ft): 56 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 2 On-Street Parking: yes  
 Horizontal Alignment Design Speed: 30 MPH Crosswalks: no  
 Vertical Alignment Design Speed: 30 MPH Traffic Controls: Stop signs at Torito, San Gorgonio & Guadalajara.

ROADWAY CONDITIONS:  
 Lateral Visibility: good Driveway Density: high  
 Surface Condition: good Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 3,800 SEGMENT LENGTH (ft): 3,200

ACCIDENTS 3-YR TOTAL: 3 ACCIDENT RATE: 1.19 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 30 MPH APPROVED SPEED LIMIT: 30 MPH

<b>85TH %:</b>	<b>37</b>	<b>MPH</b>	<b>10 MPH PACE:</b>	<b>29 - 38</b>	<b>MPH</b>
<b>50TH %:</b>	<b>33</b>	<b>MPH</b>	<b>% IN PACE:</b>	<b>80%</b>	
<b>15TH %:</b>	<b>29</b>	<b>MPH</b>	<b>% OVER PACE:</b>	<b>9%</b>	
<b>AVERAGE SPEED:</b>	<b>34</b>	<b>MPH</b>	<b>% UNDER PACE:</b>	<b>12%</b>	

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on street geometric design, residential driveway density, proximity to golf use, Shorecliffs Middle School and San Gorgonio Park, Class 2 bike lanes, and multimodal activity, a speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 2/25/2024



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/27/2018 TIME START: 1:45PM TIME STOP: 2:45PM

DAY OF WEEK: Tuesday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	EASTBOUND	WESTBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49		X	1	0%	100%
48			0	0%	100%
47			0	0%	100%
46		X	1	0%	100%
45			0	0%	99%
44	X	X	2	1%	99%
43	X	X X X X	5	2%	99%
42	X		1	0%	97%
41		X X X	3	1%	97%
40	X	X X X X	5	2%	96%
39	X	X X X X X	6	2%	95%
38	X	X X X X	5	2%	93%
37	X X X X X X X X X X	X X X X X X	16	5%	91%
36	X X X X X X	X X X X X X X X	14	4%	86%*
35	X X X X X X X X	X X X X X X X X	16	5%	82%*
34	X X X X X X X X X X X X	X X X X X X X X X X	21	6%	77%*
33	X X X X X X X X X X X X	X X X X X X X X X X X X X X	26	8%	71%*
32	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	38	11%	63%*
31	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X	31	9%	52%*
30	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X	38	11%	42%*
29	X X X X X X X X X X X X X X X X	X X X	20	6%	31%*
28	X X X X X X X	X X X X	10	3%	25%*
27	X X X X X X X X X X X X X X	X X X X X X X X X	20	6%	22%*
26	X X X X X X X X		7	2%	16%
25	X X	X	3	1%	14%
24	X X X X X	X X X	8	2%	13%
23	X	X	2	1%	11%
22	X X X X X X X X X X	X X X X X X	15	5%	10%
21			0	0%	5%
20			0	0%	5%
19		X X X X X X	6	2%	5%
18	X X		2	1%	4%
17		X X X X X X X X	7	2%	3%
16	X		1	0%	1%
15		X X	2	1%	1%
<b>TOTAL NUMBER OF VEHICLES = 332</b>			<b>332</b>	<b>100%</b>	

LOCATION: AVENIDA VAQUERO  
Calle Vista Torito to Camino Capistrano

**ROAD CHARACTERISTICS:**

Width (ft): 56  
No. of Lanes for Both Directions: 2  
Horizontal Alignment Design Speed: 30 MPH  
Vertical Alignment Design Speed: 30 MPH

Sidewalks/Driveways: yes  
On-Street Parking: yes  
Crosswalks: yes

Traffic Controls: Stops at Torito, Montecito, Grande Vista and Cascadita; Traffic signal at Capistrano.

**ROADWAY CONDITIONS:**

Lateral Visibility: good  
Surface Condition: good

Driveway Density: medium  
Ped. & Bicycle Activity: medium

AVERAGE DAILY TRAFFIC: 10,600

SEGMENT LENGTH (ft): 1,920

ACCIDENTS 3-YR TOTAL: 2  
(1/1/2015 - 12/31/2017)

ACCIDENT RATE: 0.47 accidents per million  
Avg. Orange County Rate (2010): 1.10 vehicles miles

EXISTING SPEED LIMIT: 30 MPH

APPROVED SPEED LIMIT: 30 MPH

85TH %: 35 MPH

10 MPH PACE: 27 - 36 MPH

50TH %: 30 MPH

% IN PACE: 70%

15TH %: 26 MPH

% OVER PACE: 14%

AVERAGE SPEED: 31 MPH

% UNDER PACE: 16%

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). Based on street geometric design, residential driveway density, proximity to golf use, Shorecliffs Middle School and San Geronio Park, Class 2 bike lanes, and multimodal activity, a speed limit posting of 30 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/27/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 2:20PM TIME STOP: 3:20PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53			0	0%	100%
52	X X		2	1%	100%
51			0	0%	99%
50		X X	2	1%	99%
49			0	0%	99%
48	X X X	X X X	6	2%	99%
47	X		1	0%	97%
46	X	X	2	1%	96%
45	X X X X X	X	6	2%	96%
44	X X X	X X	5	2%	94%
43	X X X X	X X X X X	9	3%	92%
42	X X X X X	X X X X	9	3%	89%
41	X X X X X X	X X X X X	11	4%	86%
40	X X X X X X X	X X X X X X X X X X	18	6%	83%
39	X X X X X X X X X X X X X X X X	X X X X X X X X	25	8%	77%*
38	X X X X X X X X X X X X X X X X	X X X X X X X X	21	7%	69%*
37	X X X X X X X X X X X X X X X X	X X X X X X X	34	11%	62%*
36	X X X X X X X X X X X X X X X X	X X X X X	18	6%	50% P
35	X X X X X X X X X X X X X X X X	X X X X X X	19	6%	45% A
34	X X X X X X X X X X X X X X X X	X X X X X	20	7%	38% C
33	X X X X X X X X	X X	10	3%	32% E
32	X X X X X X X X X X X X X X X X	X X X X X	20	7%	29%*
31	X X X X X	X X X X X	10	3%	22%*
30	X X X X X X X X X X X X X X X X	X X X X X	22	7%	19%*
29	X X X X X	X X X	8	3%	11%
28	X X X X X	X X X X X	10	3%	9%
27	X X X		3	1%	6%
26	X	X	2	1%	5%
25	X X X	X X	5	2%	4%
24			0	0%	2%
23	X X X		3	1%	2%
22	X X		2	1%	1%
21	X X		2	1%	1%
20			0	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
TOTAL NUMBER OF VEHICLES = 305			305	100%	

**LOCATION:** CAMINO VERA CRUZ  
Avenida Pico to Avenida Vista Hermosa

**ROAD CHARACTERISTICS:**  
 Width (ft): 64 Sidewalks/Driveways: yes  
 No. of Lanes for Both Directions: 4 On-Street Parking: no  
 Horizontal Alignment Design Speed: 45 MPH Crosswalks: yes  
 Vertical Alignment Design Speed: 65 MPH Traffic Controls: Traffic signals at Av Pico, Via Pacifica, Plaza Pacifica, Cl Paradiso; Stop signs at Hermosa.

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited Driveway Density: low  
 Surface Condition: good Ped. & Bicycle Activity: low

**AVERAGE DAILY TRAFFIC:** 11,250 **SEGMENT LENGTH (ft):** 3,474

**ACCIDENTS 3-YR TOTAL:** 3 **ACCIDENT RATE:** 0.37 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.48 vehicles miles

**EXISTING SPEED LIMIT:** 40 MPH **APPROVED SPEED LIMIT:** 40 MPH

<b>85TH %:</b>	<u>40</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>30 - 39</u>	<b>MPH</b>
<b>50TH %:</b>	<u>36</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>65%</u>	
<b>15TH %:</b>	<u>29</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>23%</u>	
<b>AVERAGE SPEED:</b>	<u>36</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>11%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD). A speed limit posting of 40 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc. **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 11/26/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 11/26/18 TIME START: 12:50PM TIME STOP: 1:50PM

DAY OF WEEK: Monday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53	X		1	0%	100%
52	X X		2	1%	100%
51			0	0%	99%
50	X		1	0%	99%
49	X X	X	3	1%	98%
48	X		1	0%	97%
47	X X X		3	1%	97%
46	X X X	X X	5	2%	96%
45	X X X X X	X	6	2%	94%
44	X X X X X X X X X X X X	X X X	15	6%	91%*
43	X X X X X X X	X	8	3%	86%*
42	X X X X X X X X X X X	X X X X	14	5%	82%*
41	X X X X X X	X X X	9	4%	77%*
40	X X X X X X X X X X X X X X X	X X X X X X X	22	9%	74%*
39	X X X X X X	X X X X X X X X X X	14	5%	65%*
38	X X X X X	X X X X X X X	12	5%	60%*
37	X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	26	10%	55%*
36	X X X X X X	X X X X X X X X X X X X X	16	6%	45%*
35	X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X	42	16%	39%*
34	X X	X X X X X X X	8	3%	22%
33	X X	X X X X X X X	9	4%	19%
32	X X X	X X X X X X X	10	4%	16%
31	X X X X X X X X	X X X X X X X	13	5%	12%
30	X X X	X X X X X X X X X X X X X X	14	5%	7%
29		X	1	0%	1%
28		X	1	0%	1%
27			0	0%	0%
26			0	0%	0%
25			0	0%	0%
24			0	0%	0%
23			0	0%	0%
22			0	0%	0%
21			0	0%	0%
20		X	1	0%	0%
19			0	0%	0%
18			0	0%	0%
17			0	0%	0%
16			0	0%	0%
15			0	0%	0%
<b>TOTAL NUMBER OF VEHICLES = 257</b>			<b>257</b>	<b>100%</b>	

LOCATION: CAMINO VERA CRUZ  
Avenida Vista Hermosa to Via Blanco

ROAD CHARACTERISTICS:  
 Width (ft): 64  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 45 MPH  
 Vertical Alignment Design Speed: 65 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Traffic signals at Colina Rodante, Ave Vista Hermosa, Cl De Los Arboles, and Ave Vista Hermosa.

ROADWAY CONDITIONS:  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: low

AVERAGE DAILY TRAFFIC: 10,800 SEGMENT LENGTH (ft): 3,250

ACCIDENTS 3-YR TOTAL: 3 ACCIDENT RATE: 0.41 accidents per million  
 (1/1/2015 - 12/31/2017) Avg. Accident Rate in District 12: 1.10 vehicles miles

EXISTING SPEED LIMIT: 40 MPH APPROVED SPEED LIMIT: 40 MPH

85TH %:	43 MPH	10 MPH PACE:	35 - 44 MPH
50TH %:	36 MPH	% IN PACE:	69%
15TH %:	32 MPH	% OVER PACE:	9%
AVERAGE SPEED:	38 MPH	% UNDER PACE:	22%

COMMENTS AND/OR RECOMMENDATIONS:  
 This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 40 MPH is found to be appropriate and justified.

OBSERVED BY: Transportation Studies, Inc. STUDY PREPARED BY: Jane Mrotek

RECOMMENDATION APPROVED BY: Nestor Mangohig, PE, TE, PTOE

PER CVC 40802, SURVEY EXPIRES: 11/26/2023



# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 12/7/18 TIME START: 1:15PM TIME STOP: 2:15PM

DAY OF WEEK: Friday WEATHER: Clear

SPEED (MPH)	VEHICLES SURVEYED		TOTAL VEH	% OF TOTAL	CUMUL. %
	NORTHBOUND	SOUTHBOUND			
65			0	0%	100%
64			0	0%	100%
63			0	0%	100%
62			0	0%	100%
61			0	0%	100%
60			0	0%	100%
59			0	0%	100%
58			0	0%	100%
57			0	0%	100%
56			0	0%	100%
55			0	0%	100%
54			0	0%	100%
53		X	1	0%	100%
52			0	0%	100%
51			0	0%	100%
50			0	0%	100%
49			0	0%	100%
48			0	0%	100%
47			0	0%	100%
46		X X	2	1%	100%
45	X X		2	1%	99%
44	X	X	2	1%	98%
43	X	X	2	1%	98%
42	X	X X X X X	6	2%	97%
41	X X X X	X X X X X X X X X X X X	17	5%	95%*
40	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	37	11%	90%*
39	X X X X X X X X X X X X X X X X	X X X X X X X X	25	8%	79%*
38	X X X X X X	X X X X X X X X X X X X X X X X	24	7%	71%*
37	X X X X X X X X X X X X X X X X	X X X X X X X X X X X X	25	8%	63%*
36	X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	25	8%	56%*
35	X X X X X X X X X X X X X X X X	X	21	7%	48%*
34	X X X X X X	X X X X X X X X X X X X X X X X	28	9%	41%*
33	X X X X X X X X X X X X	X X X X X X X X X X	20	6%	33%*
32	X X X X X X	X X X X X X X X X X X X X X X X	19	6%	27%*
31	X	X X X X X X X X X X	11	3%	21%*
30	X X X X X X X X X X X X	X X X X X X X X X X X X X X X X	29	9%	17%*
29	X X X X	X X X X X X X X X X	12	4%	8%*
28	X X X		3	1%	5%*
27		X	1	0%	4%*
26		X X	2	1%	3%*
25	X X X	X X X X X	8	2%	3%*
24		X	1	0%	0%*
23			0	0%	0%*
22			0	0%	0%*
21			0	0%	0%*
20			0	0%	0%*
19			0	0%	0%*
18			0	0%	0%*
17			0	0%	0%*
16			0	0%	0%*
15			0	0%	0%*
<b>TOTAL NUMBER OF VEHICLES =</b>			<b>323</b>	<b>100%</b>	

**LOCATION:** CAMINO VERA CRUZ  
Via Blanco to Camino De Los Mares

**ROAD CHARACTERISTICS:**  
 Width (ft): 64  
 No. of Lanes for Both Directions: 4  
 Horizontal Alignment Design Speed: 45 MPH  
 Vertical Alignment Design Speed: 50 MPH  
 Sidewalks/Driveways: yes  
 On-Street Parking: no  
 Crosswalks: yes  
 Traffic Controls: Traffic signal at Camino De Los Mares

**ROADWAY CONDITIONS:**  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: low  
 Ped. & Bicycle Activity: medium

**AVERAGE DAILY TRAFFIC:** 9,900      **SEGMENT LENGTH (ft):** 4,170

**ACCIDENTS 3-YR TOTAL:** 4      **ACCIDENT RATE:** 0.47 accidents per million  
 (1/1/2015 - 12/31/2017)      Avg. Accident Rate in District 12: 3.58 vehicles miles

**EXISTING SPEED LIMIT:** 35 MPH      **APPROVED SPEED LIMIT:** 35 MPH

<b>85TH %:</b>	<u>39</u>	<b>MPH</b>	<b>10 MPH PACE:</b>	<u>32 - 41</u>	<b>MPH</b>
<b>50TH %:</b>	<u>35</u>	<b>MPH</b>	<b>% IN PACE:</b>	<u>75%</u>	
<b>15TH %:</b>	<u>29</u>	<b>MPH</b>	<b>% OVER PACE:</b>	<u>5%</u>	
<b>AVERAGE SPEED:</b>	<u>35</u>	<b>MPH</b>	<b>% UNDER PACE:</b>	<u>21%</u>	

**COMMENTS AND/OR RECOMMENDATIONS:**

This speed zone satisfies the conditions of Section 627 of the California Vehicle Code (CVC) and has been prepared and evaluated in accordance with the California Manual on Uniform Traffic Control Devices (CA MUTCD), with application of CVC Section 21400(b). A speed limit posting of 35 MPH is found to be appropriate and justified.

**OBSERVED BY:** Transportation Studies, Inc.      **STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Nestor Mangohig, PE, TE, PTOE

**PER CVC 40802, SURVEY EXPIRES:** 12/7/2023

ORDINANCE NO. 1672

AN ORDINANCE OF THE CITY COUNCIL OF THE  
CITY OF SAN CLEMENTE, CALIFORNIA,  
AMENDING CHAPTER 10 OF THE MUNICIPAL  
CODE CONCERNING SPEED ZONES ON CITY  
STREETS

WHEREAS, the City has conducted speed surveys and engineering studies upon existing and new streets in the City; and

WHEREAS, the Planning Commission at their regular meeting of April 17, 2019 made a recommendation to the City Council to approve the establishment of speed limits based on recent Engineering and Traffic Survey.

NOW, THEREFORE, the City Council of the City of San Clemente, California, hereby ordains as follows:

Section 1: Section 10.16.020 of the Municipal Code of the City of San Clemente is hereby amended to read in its entirety as follows:

**10.16.020 Decrease of state law maximum speed.**

It is determined upon the basis of an engineering and traffic investigation that the speed permitted by state law outside of business and residential districts as applicable upon the following streets is greater than is reasonable or safe under the conditions found to exist upon such streets, and it is declared that the prima facie speed limit shall be as herein set forth on those streets or parts of streets herein designated when signs are erected giving notice thereof:

<b>Name of Street or Portion Affected</b>	<b>Declared Prima Facie Speed Limit</b>
Acapulco, Avenida from Avenida San Pablo to Avenida San Pablo	Thirty-five miles per hour
Aguilla, Calle from Avenida Vista Montana to Calle Pastadero	Thirty miles per hour
Altea, Calle from Calle Pedriza to terminus	Thirty-five miles per hour

Mares, Camino de Los from Avenida Vaquero to its easterly City limit	Forty-five miles per hour
Mira Costa, Camino from Camino de Estrella to Camino Capistrano	Thirty-five miles per hour
Montana, Avenida Vista from Calle Del Cerro to Calle Del Cerro	Thirty-five miles per hour
Negocio, Calle from Calle Amanecer to its terminus	Thirty-five miles per hour
Pastadero, Calle from Avenida Vista Montana to its terminus	Thirty miles per hour
Pico, Avenida from El Camino Real to Calle Frontera/ Avenida Presidio	Thirty-five miles per hour
Pico, Avenida from Calle Frontera/Avenida Presidio to Avenida La Pata	Forty-five miles per hour
Pico, Avenida from Avenida La Pata to east City limits	Fifty miles per hour
Portico Del Sur/Norte from Camino de Los Mares to Camino de Los Mares	Thirty-five miles per hour
Real, El Camino (Pacific Coast Highway) from Camino Capistrano to Avenida Estacion	Forty-five miles per hour
Real, El Camino from Avenida Estacion to El Portal	Thirty-five miles per hour
Real, El Camino from El Portal to Avenida Valencia	Thirty miles per hour



Amanecer, Calle from Avenida Pico to Avenida La Pata	Thirty-five miles per hour
Califia, Avenida from Avenida Del Presidente to terminus	Twenty-five miles per hour
Capistrano, Camino from El Camino Real to north City limit	Thirty miles per hour
Cerro, Calle Del from Avenida Pico to lower Avenida Vista Montana (west)	Thirty-five miles per hour
Cerro, Calle Del from lower Avenida Vista Montana (west) to Avenida La Pata	Thirty-five miles per hour
Del Rio, Camino from Camino de Los Mares to easterly terminus	Forty miles per hour
Faro, Camino from Calle Frontera to Avenida Vista Hermosa	Twenty-five miles per hour
Frontera, Calle from Avenida Pico to to 600' s/o Caudra	Thirty miles per hour
Hermosa, Avenida Vista from Interstate 5 to Camino Vera Cruz	Forty miles per hour
Hermosa, Avenida Vista from Camino Vera Cruz to Avenida Pico	Forty-five miles per hour
La Pata, Avenida from Calle Saluda to South City Limits	Forty-five miles per hour
La Pedriza, Camino from Avenida Vista Hermosa to Avenida Pico	Forty miles per hour

Real, El Camino  
from Avenida Valencia to southern City Limit  
Thirty-five miles per hour

Saluda, Calle  
From Avenida La Pata to Avenida Talega  
Thirty-five miles per hour

San Pablo, Avenida  
from Avenida Acapulco to northerly terminus  
Thirty-five miles per hour

Sarmentoso, Calle  
from Camino Vera Cruz to Camino Del Rio  
Thirty miles per hour

Talega, Avenida  
from Avenida Vista Hermosa to Calle Saluda  
Thirty-five miles per hour

Talega, Avenida  
from Calle Saluda to East City Limit  
Forty miles per hour

Vaquero, Avenida  
from Camino de Los Mares to Camino  
Capistrano  
Thirty miles per hour

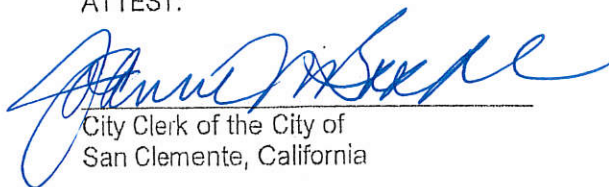
Vera Cruz, Camino  
from Avenida Pico to Via Blanco  
Forty miles per hour


Vera Cruz, Camino  
from Via Blanco to Camino De Los Mares  
Thirty-five miles per hour

**Section 2:** The City Clerk shall certify to the passage of this ordinance and cause the same to be published as required by law, and the same shall take effect as provided by law.

APPROVED AND ADOPTED this 4th day of June, 2019.

ATTEST:

  
\_\_\_\_\_  
City Clerk of the City of  
San Clemente, California

  
\_\_\_\_\_  
Mayor Pro Tem of the City of San  
Clemente, California

STATE OF CALIFORNIA        )  
 COUNTY OF ORANGE         ) ss.  
 CITY OF SAN CLEMENTE     )

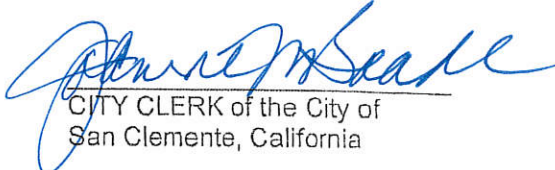
I, JOANNE BAADE, City Clerk of the City of San Clemente, California, hereby certify that Ordinance No. 1672 having been regularly introduced at the meeting of May 21, 2019, was again introduced, the reading in full thereof unanimously waived, and duly passed and adopted at a regular meeting of the City Council held on the 4th day of June, 2019, and said ordinance was adopted by the following vote:

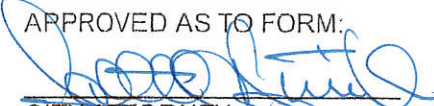
AYES:       FERGUSON, HAMM, WARD, MAYOR PRO TEM BANE

NOES:       NONE

ABSENT:    NONE

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of San Clemente, California, this 11<sup>TH</sup> day of JUNE, 2019.

  
 CITY CLERK of the City of  
 San Clemente, California

APPROVED AS TO FORM:  
  
 CITY ATTORNEY



# TRAFFIC RADAR CERTIFICATION

TESTED TO NHTSA SPECIFICATIONS / IACP CRITICAL PERFORMANCE STANDARDS  
(NHTSA) National Highway and Traffic Safety Administration  
(IACP) International Association of Chiefs of Police

16202 Keats Circle  
Westminster, Calif. 92683

R.H.F. is a certified independent testing and repair facility.

1	TEST ID	Date Received <b>6-12-18</b>	Certification Number <b>73085</b>						
2	DEVICE ID	Make: <b>Kustom Electronics</b>	Model: <b>Falcon and Road Runner</b>	Type (I-IV) <b>III</b>	Directional radar <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Same direction <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Counting unit S/N <b>FF10214</b>	Antenna-1 S/N <b>N/A</b>	Antenna-2 S/N <b>N/A</b>					
3	§ 2.4 / § 5.4 TUNING FORK CALIBRATION	Low speed fork S/N	Last date calib.	Freq. (Hz)	Speed (mph)	Measured (Hz)	PASS	FAIL	
		High speed fork S/N	Last date calib.	Freq. (Hz)	Speed (mph)	Measured (Hz)			
4	§ 2.5 / § 5.5 RADAR DEVICE TUNING FORK TESTS	Stationary mode		Lo fork	High fork	<input checked="" type="checkbox"/> PASS    FAIL			
				Fork speed (mph)	35				65
				Disp. Speed (mph)	35				65
		Moving mode Opposite Direction	TARGET SPEED (Hi fork - Lo fork)	Expected. (mph)	N/A				Displayed. (mph)
Moving mode Same Direction	TARGET SPEED (Hi fork + Lo fork)	Expected. (mph)	N/A	Displayed. (mph)	N/A				
5	§ 2.6.E / § 5.6.1 TRANSMISSION FREQUENCY STABILITY	Standard supply Voltage (V) <b>13.6 V</b>	Antenna 1 Freq. GHz <b>24.160</b>	Antenna 2 Freq. GHz <b>N/A</b>	<input checked="" type="checkbox"/> PASS    FAIL				
		Standard supply Voltage - 20% (V) <b>10.8 V</b>	Antenna 1 Freq. GHz <b>24.160</b>	Antenna 2 Freq. GHz <b>N/A</b>					
		Standard supply Voltage + 20% (V) <b>16.3 V</b>	Antenna 1 Freq. GHz <b>24.160</b>	Antenna 2 Freq. GHz <b>N/A</b>					
6	§ 2.6.5 / § 5.6.5 POWER DENSITY	Mfg. Spec. (max mW/cm) <b>≤ 5</b>	Antenna 1 Power (mW/cm) <b>.64</b>	Antenna 2 Power (mW/cm) <b>N/A</b>	<input checked="" type="checkbox"/> PASS    FAIL				
7	§ 2.8 / § 5.8 LOW VOLTAGE	Mfg. spec. (V) <b>≤ 10.8 V</b>	LVA activates (V) <b>9.7</b>	LVA deactivates (V) <b>10.5</b>	<input checked="" type="checkbox"/> PASS    FAIL				
8	§ 2.9.1 / § 5.9.1 DOPPLER AUDIO	A. Audio tone correlates with received Doppler signal		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> PASS    FAIL			
B. Functioning audio volume-adjustment control		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
9	§ 2.12.4 / § 5.12.4 INTERNAL CIRCUIT	Mfg. Spec. <b>32</b>	Test results <b>32</b>			<input checked="" type="checkbox"/> PASS    FAIL			
10	§ 2.12.6.5 / § 5.12.6.5 DIRECTIONAL	A. Selects only targets moving towards radar		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.		PASS    FAIL			
B. Selects only targets moving away from radar		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.							
11	§ 2.12.7 / § 2.12.8 / § 5.12.7 / § 5.12.8 LOW AND HIGH SPEED DISPLAY TEST	Secondary mode: target channel (mph)		Low speed spec. <b>20</b>	Lo speed disp. <b>20</b>	<input checked="" type="checkbox"/> PASS    FAIL			
				Hi speed spec. <b>199</b>	Hi speed disp. <b>199</b>				
		Moving Mode target channel (mph)		Low speed spec. <b>N/A</b>	Lo speed disp. <b>N/A</b>			Hi speed spec. <b>N/A</b>	Hi speed disp. <b>N/A</b>
		Moving Mode: patrol channel (mph)		Low speed spec. <b>N/A</b>	Lo speed disp. <b>N/A</b>			Hi speed spec. <b>N/A</b>	Hi speed disp. <b>N/A</b>
12	§ 2.13 / § 5.13 RFI TEST						<input checked="" type="checkbox"/> PASS    FAIL		
13	LABORATORY COMMENTS								
14	NHTSA/IACP CERTIFICATION:	This radar device meets or exceeds the minimal operational standards of the National Traffic Highway Safety Administration. California Vehicle Code Section 40802 <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL							
		Certified by: <b>Fred Bauman</b>			Date: <b>6-12-18</b>				
15	INVENTORY	<input type="checkbox"/> Fork Cert <input type="checkbox"/> Manual <input type="checkbox"/> 2 <sup>nd</sup> Ant. <input type="checkbox"/> Remote <input type="checkbox"/> Bat. <input type="checkbox"/> Carrying Case <input type="checkbox"/> Other: (please list)							



# TRAFFIC RADAR CERTIFICATION

TESTED TO NHTSA SPECIFICATIONS / IACP CRITICAL PERFORMANCE STANDARDS.  
 (NHTSA) National Highway and Traffic Safety Administration  
 (IACP) International Association of Chiefs of Police

16202 Keats Circle  
 Westminster, Calif. 92683

R.H.F. is a certified independent testing and repair facility.

1	TEST ID	Date Received <b>6-12-18</b>	Certification Number <b>73086</b>					
2	DEVICE ID	Make: <b>Kustom Electronics</b>	Model: <b>Falcon and Road Runner</b>	Type (LIV) <b>III</b>	Directional radar <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Counting unit S/N <b>RR 2200</b>	Antenna-1 S/N <b>N/A</b>	Antenna-2 S/N <b>N/A</b>	Same direction <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3	§ 2.4 / § 5.4 TUNING FORK CALIBRATION	Low speed fork S/N	Last date calib.	Freq. (Hz)	Speed (mph)	Measured (Hz)	<b>PASS</b>	FAIL
		High speed fork S/N <b>17584</b>	Last date calib.	Freq. (Hz)	Speed (mph) <b>50</b>	Measured (Hz) <b>3652</b>		
4	§ 2.5 / § 5.5 RADAR DEVICE TUNING FORK TESTS	Stationary mode		Lo fork	High fork	<b>PASS</b>	FAIL	
		Fork spe (mph)		<b>35</b>	<b>65</b>			
		Disp. Speed (mph)		<b>35</b>	<b>65</b>			
		Moving mode Opposite Direction	TARGET SPEED (Hi fork - Lo fork)	Expected. (mph)	Displayed. (mph)			<b>N/A</b>
Moving mode Same Direction	TARGET SPEED Hi fork + Lo fork Lo fork - Lo fork	Expected. (mph)	Displayed. (mph)	<b>N/A</b>	<b>N/A</b>			
5	§ 2.6.1 / § 5.4.1 TRANSMISSION FREQUENCY STABILITY	Standard supply Voltage (V) <b>13.6 V</b>	Antenna 1 Freq. GHz <b>24.156</b>	Antenna 2 Freq. GHz <b>N/A</b>	<b>PASS</b>	FAIL		
		Standard supply Voltage - 20% (V) <b>10.8 V</b>	Antenna 1 Freq. GHz <b>24.156</b>	Antenna 2 Freq. GHz <b>N/A</b>				
		Standard supply voltage + 20% (V) <b>16.3 V</b>	Antenna 1 Freq. GHz <b>24.156</b>	Antenna 2 Freq. GHz <b>N/A</b>				
6	§ 2.6.5 / § 5.6.5 POWER DENSITY	Mfg. Spec. (max mW/cm) <b>≤ 5</b>	Antenna 1 Power (mW/cm) <b>.41</b>	Antenna 2 Power (mW/cm) <b>N/A</b>	<b>PASS</b>	FAIL		
7	§ 2.8 / § 5.8 LOW VOLTAGE	Mfg. spec. (V) <b>≤ 10.8 V</b>	LVA activates (V) <b>8.9</b>	LVA deactivates (V) <b>9.6</b>	<b>PASS</b>	FAIL		
8	§ 2.9.1 / § 5.9.1 DOPPLER AUDIO	A. Audio tone correlates with received Doppler signal B. Functioning audio volume-adjustment control		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>PASS</b>	FAIL		
9	§ 2.12.4 / § 5.12.4 INTERNAL CIRCUIT	Mfg. Spec. <b>32</b>	Test results <b>32</b>		<b>PASS</b>	FAIL		
10	§ 2.12.6.5 / § 5.12.6.5 DIRECTIONAL	A. Selects only targets moving towards radar B. Selects only targets moving away from radar		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<b>PASS</b>	FAIL		
11	§ 2.12.7 / § 2.12.8 / § 5.12.7 / § 5.12.8 LOW AND HIGH SPEED DISPLAY TEST	Stationary mode target channel (mph)		Low speed spec. <b>20</b>	Lo speed disp. <b>20</b>	<b>PASS</b>	FAIL	
				Hi speed spec. <b>199</b>	Hi speed disp. <b>199</b>			
		Moving Mode target channel (mph)		Low speed spec. <b>N/A</b>	Lo speed disp. <b>N/A</b>			
				Hi speed spec. <b>N/A</b>	Hi speed disp. <b>N/A</b>			
Moving Mode: patrol channel (mph)		Low speed spec. <b>N/A</b>	Lo speed disp. <b>N/A</b>					
			Hi speed spec. <b>N/A</b>	Hi speed disp. <b>N/A</b>				
12	§ 2.13 / § 5.13 RFI TEST					<b>PASS</b>	FAIL	
13	LABORATORY COMMENTS							
14	NHTSA IACP CERTIFICATION	This radar device meets or exceeds the minimal standards of the National Traffic Highway Safety Administration. California Vehicle Code Section 40802				<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL		
		Certified by: <b>Fred Trauman</b>		Date: <b>6-12-18</b>				
15	INVENTORY	<input type="checkbox"/> Fork Cert <input type="checkbox"/> Manual <input type="checkbox"/> 2 <sup>nd</sup> Ant. <input type="checkbox"/> Remote <input type="checkbox"/> Bat <input type="checkbox"/> Carrying Case <input type="checkbox"/> Other: (please list)						

# CERTIFICATE OF COMPLETION

## THIS IS TO CERTIFY THAT –

1. Edell M. Braucksiek of Transportation Studies Inc. has successfully completed a Radar Operator course. This was based upon the national standards as outlined by the National Highway Traffic Safety Administration, and the national text "Understanding Police Traffic Radar and Laser" by Les Langford. This instructor is Steve Chauncey, a police officer since 1981 and a California P.O.S.T. certified Radar and Laser Instructor since 1991.
2. Edell M. Braucksiek completed the classroom instruction on operation and theory of Radar devices, case law, traffic and engineering surveys, FCC regulations, the California Vehicle Code and California case law as well as the test, set-up, operation and identification of erroneous readings.
3. Edell M. Braucksiek demonstrated competence in test and set-up of the Radar device as making visual speed estimations and identifying erroneous readings in field settings.
4. Edell M. Braucksiek of Transportation Studies Inc. is hereby certified as having completed a course of instruction for the purposes of Radar operation for determining car counts and raw data for traffic and engineering surveys as out lined in sections 627 and the 40800 series of the California Vehicle Code, Chapter 8 of the former Cal Trans Manual and applicable sections of Chapter 2 of MUTCD up to and including Revision 09-04 issued June 29, 2009. This certification is awarded on this 3rd Day of March, 2012.



Steve Chauncey  
P.O.S.T. Certified Radar Instructor