



Agenda Item 9B

Approvals:

City Manager gm

Dept. Head [Signature]

Attorney [Signature]

Finance [Signature]

AGENDA REPORT

SAN CLEMENTE CITY COUNCIL MEETING

Meeting Date: August 15, 2017

Department: Public Works / Engineering Division
Prepared By: Tom Frank, Transportation Engineering Manager *TF*

Subject: ESTABLISHMENT OF SPEED LIMIT ON AVENIDA LA PATA.

Fiscal Impact: None.

Summary: The Planning Commission and staff recommend that the City Council approve the establishment of a speed limit on Avenida La Pata based on the Engineering and Traffic Survey summarized on the attached Speed Summary Exhibits. This is to comply with the California Vehicle Code (CVC) and California Manual for Uniform Traffic Control Devices (CA MUTCD) requirements for establishing non-statutory speed limits on Avenida La Pata.

Background: The CVC Sections 22348 to 22143 govern the establishment of speed limits in the State of California. For speed limits to be valid for enforcement, the CVC requires that an Engineering & Traffic Survey (E&TS) be conducted and updated every five years to re-evaluate non-statutory speed limits on street segments that have undergone significant changes since the last review. Changes in the street characteristics include addition or elimination of travel lanes, driveways, bicycle lanes, traffic volumes, or traffic control devices. Speed limits should be established at the nearest 5 miles per hour (mph) increment to the measured 85th percentile speed of free flowing traffic. The 85th percentile speed is defined as the speed at or below which 85 percent of vehicles is observed to travel under free flowing conditions. State law allows a 5 mph reduction from the nearest 5 mph increment of the 85th percentile speed with justification documented in the E&TS.

Discussion: Construction of the Avenida La Pata extension was completed and accepted by the City Council on April 18, 2017 (refer to Attachment 1 Map). In order to comply with the CVC requirements and allow the sheriff to enforce a speed limit, staff conducted speed surveys on the new street segment of Avenida La Pata. The speed survey results are summarized in Attachment 3. Staff recommends establishing the speed limit on Avenida La Pata from Calle Saluda to Camino Del Rio at 45 mph and from Camino Del Rio to the County limit line at 50 mph. The posted speed on Avenida La Pata south of Calle Saluda is 45 mph.

On July 19, 2017, the Planning Commission approved a recommendation to City Council to accept the speed survey and establish speed limits on this street accordingly.

Recommended

Action: STAFF AND PLANNING COMMISSION RECOMMEND THAT the City Council:

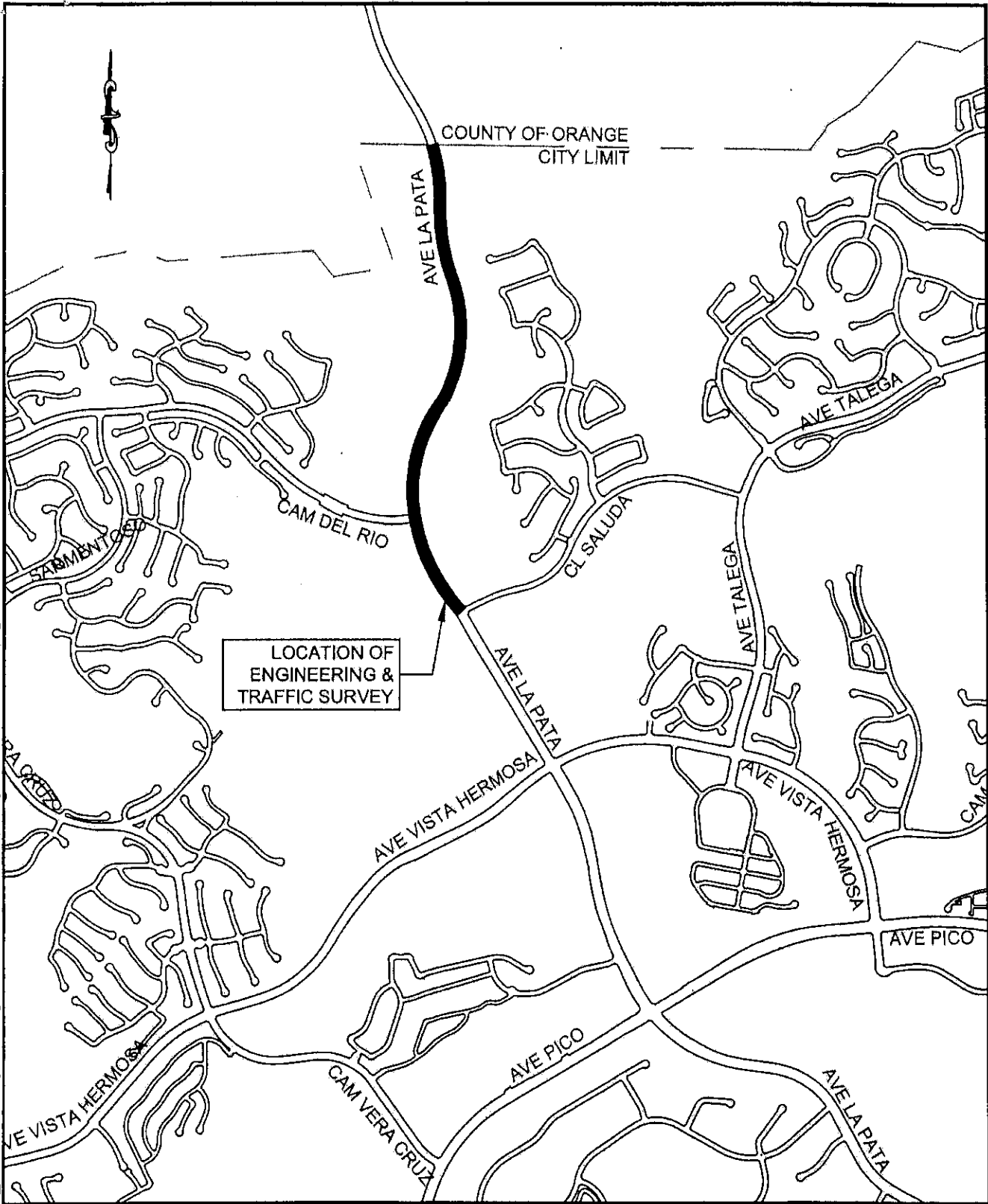
1. Accept the Engineering & Traffic Surveys for Avenida La Pata from Calle Saluda to County of Orange Limit Line, and establish speed limits on this street accordingly; and
2. Introduce Ordinance No. _____ entitled "AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SAN CLEMENTE, CALIFORNIA, AMENDING CHAPTER 10 OF THE MUNICIPAL CODE CONCERNING SPEED ZONES ON AVENIDA LA PATA."

Attachments:

1. Location Map
2. Proposed Ordinance
3. Engineering & Traffic Survey (E&TS)

Notification: None.

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Prepared in the office of
City of San Clemente

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LOCATION MAP

AVENIDA LA PATA
 from Calle Saluda to County of Orange Limit

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SAN CLEMENTE, CALIFORNIA, AMENDING CHAPTER 10 OF THE MUNICIPAL CODE CONCERNING SPEED ZONES ON AVENIDA LA PATA

WHEREAS, the City has conducted Engineering and Traffic Surveys on Avenida La Pata from Avenida Saluda to County of Orange Limit Line; and

WHEREAS, the Planning Commission at its regular meeting of July 19, 2017 made a recommendation to the City Council to approve the establishment of speed limits based on the recent Engineering and Traffic Surveys.

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 San Clemente, entitled "Decrease of state law maximum speed", is hereby amended by adding the following to the list of City streets and declared prima facie speed limits set forth therein:

Name of Street or Portion Affected	Declared Prima Facie Speed Limit
La Pata, Avenida from Calle Saluda to Camino Del Rio	Forty-five (45) miles per hour
La Pata, Avenida from Camino Del Rio to County of Orange Limit	Fifty (50) 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.

PASSED AND ADOPTED this _____ day of _____, _____.

ATTEST:

City Clerk of the City of
San Clemente, California

Mayor 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. _____ having been regularly introduced at the meeting of _____, was again introduced, the reading in full thereof unanimately waived, and duly passed and adopted at a regular meeting of the City Council held on the _____ day of _____, _____, and said ordinance was adopted by the following vote:

AYES:

NOES:

ABSENT:

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the City of San Clemente, California, this _____ day of _____, _____.

CITY CLERK of the City of
San Clemente, California

APPROVED AS TO FORM:

CITY ATTORNEY



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/23/17 TIME START: 2:25 AM TIME STOP: 3:30 PM
 DAY OF WEEK: Thursday WEATHER: Sunny

ATTACHMENT 3

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUM. %
	NORTHBOUND	SOUTHBOUND		
65	X		0%	100%
64			0%	100%
63			0%	100%
62		X	0%	100%
61			0%	99%
60	X	X	1%	99%
59	X	X	1%	98%
58	X		0%	97%
57	X		1%	97%
56	X		1%	97%
55	X		3%	96%
54	X		1%	93%
53	X		1%	92%
52	X		4%	91%
51	X		6%	87%
50	X		8%	81%
49	X		17%	75%
48	X		8%	59%
47	X		7%	52%
46	X		14%	45%
45	X		8%	31%
44	X		3%	16%
43	X		2%	8%
42	X		3%	6%
41	X		1%	3%
40	X		1%	2%
39	X		1%	1%
38	X		0%	0%
37	X		0%	0%
36	X		0%	0%
35	X		0%	0%
34	X		0%	0%
33	X		0%	0%
32	X		0%	0%
31	X		0%	0%
30	X		0%	0%
29	X		0%	0%
28	X		0%	0%
27	X		0%	0%
26	X		0%	0%
25	X		0%	0%
24	X		0%	0%
23	X		0%	0%
22	X		0%	0%
21	X		0%	0%
20	X		0%	0%
19	X		0%	0%
18	X		0%	0%
17	X		0%	0%
16	X		0%	0%
15	X		0%	0%

TOTAL NUMBER OF VEHICLES = 301

LOCATION: AVENIDA LA PATA
Calle Saluda to Camino Del Rio

ROAD CHARACTERISTICS: Width (ft): 80
No. of Lanes for Both Directions: 4
Horizontal Alignment Design Speed: 60 MPH
Vertical Alignment Design Speed: 60 MPH

ROADWAY CONDITIONS: Lateral Visibility: Good
Surface Condition: Good

AVERAGE DAILY TRAFFIC: 10,000

ACCIDENTS 3-YR TOTAL: N/A - New Street

EXISTING SPEED LIMIT: N/A - New Street

ROADWAY CONDITIONS: Driveaway Density: low
Ped. & Bicycle Activity: low

SEGMENT LENGTH (ft): 1,220

ACCIDENT RATE: N/A accidents per million vehicles miles

APPROVED SPEED LIMIT: 45 MPH

ROAD CHARACTERISTICS: Sidewalks/Driveways: yes
On-Street Parking: no
Crosswalks: yes
Traffic Controls: Signalized intersections at Avenida La Pata/Calle Saluda and Avenida La Pata/Camino Del Rio.

85TH %: 50 MPH

50TH %: 46 MPH

15TH %: 43 MPH

AVERAGE SPEED: 47 MPH

10 MPH PACE: 15 - 24 MPH

% IN PACE: 0%

% OVER PACE: 100%

% UNDER PACE: 0%

COMMENTS AND/OR RECOMMENDATIONS:
Based on the street's on-road Class 2 bikelines, the 8-ft multi-use pathway, and adjacent City and County hiking trails, it is recommended to post the speed limit on this segment of Avenida La Pata at 45 MPH.

OBSERVED BY: Jane Mrolek, Assistant Engineer

STUDY PREPARED BY: Jane Mrolek, Assistant Engineer

RECOMMENDATION APPROVED BY: Thomas Frank, P.E., Transportation Engineering Manager

PER C.V.C. 40802, SURVEY EXPIRES: 3/23/2022



CITY OF SAN CLEMENTE

SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 3/28/17 TIME START: 9:02 AM TIME STOP: 10:16 AM
 DAY OF WEEK: Tuesday WEATHER: Sunny

ATTACHMENT 3

SPEED (MPH)	VEHICLES SURVEYED		% OF TOTAL	CUMUL %
	NORTHBOUND	SOUTHBOUND		
65	XXX	XX	1%	100%
64	XX		0%	99%
63	XXXXXX		0%	99%
62	XXXXXX	XXX	2%	99%
61	XXX	XX	1%	97%
60	XXXXXXXXXX	XXXXXXXXXXXX	4%	96%
59	XXXXXXXXXX	XXXXXXXXXXXX	5%	92%
58	XXXXXXXXXX	XXXXXXXXXXXX	4%	87%
57	XXXXXXXXXX	XXXXXXXXXXXX	7%	83%
56	XXXXXXXXXX	XXXXXXXXXXXX	14%	76%
55	XXXXXXXXXX	XXXXXXXXXXXX	15%	63%
54	XXXXXXXXXX	XXXXXXXXXXXX	7%	47%
53	XXXXXXXXXX	XXXXXXXXXXXX	7%	40%
52	XXXXXXXXXX	XXXXXXXXXXXX	8%	39%
51	XXXXXXXXXX	XXXXXXXXXXXX	4%	24%
50	XXXXXXXXXX	XXXXXXXXXXXX	8%	20%
49	XXXXXX	XXXXXX	6%	12%
48	XXXXXX	XXXXXX	1%	7%
47	XXXXXX	XXXXXX	2%	3%
46	XXXXXX	XXXXXX	1%	2%
45	XXXXXX	XXXXXX	0%	2%
44	XXXXXX	XXXXXX	0%	2%
43	XXXXXX	XXXXXX	1%	1%
42	XXXXXX	XXXXXX	0%	0%
41	XXXXXX	XXXXXX	0%	0%
40	XXXXXX	XXXXXX	0%	0%
39	XXXXXX	XXXXXX	0%	0%
38	XXXXXX	XXXXXX	0%	0%
37	XXXXXX	XXXXXX	0%	0%
36	XXXXXX	XXXXXX	0%	0%
35	XXXXXX	XXXXXX	0%	0%
34	XXXXXX	XXXXXX	0%	0%
33	XXXXXX	XXXXXX	0%	0%
32	XXXXXX	XXXXXX	0%	0%
31	XXXXXX	XXXXXX	0%	0%
30	XXXXXX	XXXXXX	0%	0%
29	XXXXXX	XXXXXX	0%	0%
28	XXXXXX	XXXXXX	0%	0%
27	XXXXXX	XXXXXX	0%	0%
26	XXXXXX	XXXXXX	0%	0%
25	XXXXXX	XXXXXX	0%	0%
24	XXXXXX	XXXXXX	0%	0%
23	XXXXXX	XXXXXX	0%	0%
22	XXXXXX	XXXXXX	0%	0%
21	XXXXXX	XXXXXX	0%	0%
20	XXXXXX	XXXXXX	0%	0%
19	XXXXXX	XXXXXX	0%	0%
18	XXXXXX	XXXXXX	0%	0%
17	XXXXXX	XXXXXX	0%	0%
16	XXXXXX	XXXXXX	0%	0%
15	XXXXXX	XXXXXX	0%	0%
TOTAL NUMBER OF VEHICLES = 523			100%	0%

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

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

AVERAGE DAILY TRAFFIC: 10,000
SEGMENT LENGTH (ft): 4,440

ACCIDENTS 3-YR TOTAL: N/A - New Street
ACCIDENT RATE: N/A accidents per million vehicles miles

EXISTING SPEED LIMIT: N/A - New Street
APPROVED SPEED LIMIT: 50 MPH

85TH %: 57 MPH
10 MPH PACE: 15 - 24 MPH

50TH %: 54 MPH
% IN PACE: 0%

15TH %: 49 MPH
% OVER PACE: 100%

AVERAGE SPEED: 54 MPH
% UNDER PACE: 0%

COMMENTS AND/OR RECOMMENDATIONS:
 Based on the street's on-road Class 2 bikelines, the 8-ft multi-use pathway, and adjacent City and County hiking trails, it is recommended to post the speed limit on this segment of Avenida La Pata at 50 MPH.

OBSERVED BY: Jane Mrotek, Assistant Engineer
STUDY PREPARED BY: Jane Mrotek, Assistant Engineer

RECOMMENDATION APPROVED BY: Thomas Frank, P.E., Transportation Engineering Manager

PER C.V.C. 40802, SURVEY EXPIRES: 3/28/2022