



**AGENDA REPORT**  
**SAN CLEMENTE CITY COUNCIL MEETING**  
 Meeting Date: July 3, 2012

Agenda Item 9A  
 Approvals: \_\_\_\_\_  
 City Manager [Signature]  
 Dept. Head [Signature]  
 Attorney \_\_\_\_\_  
 Finance \_\_\_\_\_

**Department:** Public Works / Engineering Division OB  
**Prepared By:** Thomas Frank, Transportation Engineering Manager

**Subject:** *ESTABLISHMENT OF SPEED LIMITS ON AVENIDA PICO, AVENIDA VISTA HERMOSA, AND AVENIDA PRESIDIO.*

**Summary:** The California Vehicle Code (C.V.C) 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 mph increment to the measured 85<sup>th</sup> percentile speed of free flowing traffic. The 85<sup>th</sup> 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 85<sup>th</sup> percentile speed with justification documented in the E&TS.

On August 18, 2009, Council adopted Ordinance No. 1293 to amend Chapter 10 of the Municipal Code and modify speed limits on certain streets. Street conditions on Avenida Pico from El Camino Real to Calle De Los Molinos and Avenida Vista Hermosa from Camino Vera Cruz to Avenida La Pata have changed since the speed limit ordinance was adopted. Also, staff found a discrepancy between the posted speed limit and the 85<sup>th</sup> percentile speed on Avenida Presidio from Calle Escuela to Avenida Pico. As required by the CVC, a new E&TS was conducted on these street segments with the following results and recommendations:

- **Avenida Pico** from El Camino Real to Calle De Los Molinos is a primary arterial with two lanes in each direction with a raised median. Two new traffic signal lights were installed at Avenida Vista Hermosa west and the City Reclamation Plant entrance. Continuous sidewalk and on-street striped bike lanes were added to the street segment. The surrounding property uses are commercial and the City Yard facility. The 85<sup>th</sup> percentile speed is 41 miles per hour east bound direction and 36 miles per hour in the west bound direction.

Based on the speed survey data, location of the street within the commercial zone, City corporate yard and Marblehead Costal development, pedestrian volumes, and bicyclist volumes, staff recommends changing the speed limit on this segment of Avenida Pico from 40 miles per hour to 35 miles per hour.

- **Avenida Vista Hermosa** from Camino Vera Cruz to Avenida La Pata is a primary arteri... with two lanes in each direction with a raised median. A new traffic signal light a... driveway accesses for Target and Sports Park were added on this street segment. The 85<sup>th</sup> percentile speed is 52 miles per hour east bound direction and 50 miles per hour in the west bound direction.

Based on the speed survey data, street access to Target shopping center, and the proximity of the adjacent Sports Park, staff recommends maintaining the speed limit on this segment of Avenida Vista Hermosa at 45 miles per hour.

- **Avenida Presidio** from Calle Escuela to Avenida Pico is a residential collector street. About 500 feet of on-street parking is permitted on west side of this street segment. The 85<sup>th</sup> percentile speed is 31 miles per hour east bound direction and 32 miles per hour in the west bound direction.

Based on the geometric design of the street, limited line of sight, high pedestrian volume during the school peak hours, and shopping center driveway access fronting the street, staff recommends maintaining the speed limit on this segment of Avenida Presidio at 25 miles per hour.

At its regular June 6, 2012 meeting, The Planning Commission unanimously approved staff's recommendation as described herein.

**Recommended Action:**

PLANNING COMMISSION AND STAFF RECOMMEND THAT THE CITY COUNCIL:

1. Accept the Engineering & Traffic Surveys for sections of Avenida Pico, Avenida Vista Hermosa, and Avenida Presidio, and establish speed limits on the subject streets 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 CERTAIN CITY STREETS."

**Fiscal Impact:** None.

**Attachments:** Location Map  
Proposed Ordinance  
Engineering & Traffic Survey (E&TS)

**Notification:** None.

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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 CERTAIN CITY STREETS**

**WHEREAS**, the City has conducted additional speed surveys and engineering studies upon certain streets in the City; and

**WHEREAS**, the City of San Clemente Planning Commission ("Planning Commission") at their regular meeting of June 6, 2012 made a recommendation to the City of San Clemente City Council ("City Council") to approve the establishment of speed limits based on recent speed surveys and engineering surveys.

**NOW, THEREFORE**, the City Council of the City of San Clemente DOES HEREBY ORDAIN 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 modifying the following to the list of City streets and declared prima facie speed limits set forth therein:

| <b>Name of Street or Portion Affected</b>                    | <b>Declared Prima Facie Speed Limit</b> |
|--|---|
| Pico, Avenida<br>from El Camino Real to Calle De Los Molinos | 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.

PASSED AND ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

ATTEST:

\_\_\_\_\_  
City Clerk of the City of  
San Clemente, California

\_\_\_\_\_  
Mayor of the City of  
San Clemente, California

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STATE OF CALIFORNIA            )  
COUNTY OF ORANGE            ) §  
CITY OF SAN CLEMENTE         )

I, JOANNE BAADE, City Clerk of the City of San Clemente, California, do hereby certify that Resolution No. \_\_\_\_\_ was adopted at a regular meeting of the City Council of the City of San Clemente held on the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, 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: 4/17/12 TIME START: 1:30 PM TIME STOP: 2:08 PM  
 DAY OF WEEK: Tuesday WEATHER: DRY

**LOCATION:** AVENIDA PICO  
 El Camino Real to Los Molinos

**ROAD CHARACTERISTICS:**  
 Width (ft): 82 - 85  
 No. of Lanes for Both Directions: 4  
 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, Hermosa West and Reclamation Plant.

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

**AVERAGE DAILY TRAFFIC:** 16,350  
**SEGMENT LENGTH (ft):** 2,544

**ACCIDENTS 3-YR TOTAL:** 40  
**ACCIDENT RATE:** 4.64 accidents per million vehicles miles  
 (11/1/2009 - 12/31/2011)

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

**85TH %:** 39 MPH  
**50TH %:** 33 MPH  
**15TH %:** 28 MPH  
**AVERAGE SPEED:** 34 MPH

**10 MPH PACE:** 29 - 38 MPH  
**% IN PACE:** 68%  
**% OVER PACE:** 19%  
**% UNDER PACE:** 13%

**COMMENTS AND/OR RECOMMENDATIONS:**  
 Based on the speed survey data, location of the street within the commercial zone, City corporate yard and Marblehead Coastal development, pedestrian and bicyclist volumes, it is recommended to post a speed limit on this segment of Avenida Pico at 35 MPH.

**OBSERVED BY:** Jane Mrotek  
**STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Thomas Frank, P.E.

**PER C.V.C. 40802, SURVEY EXPIRES:** 4/17/2017

| SPEED (MPH)                           | VEHICLES SURVEYED |           | % OF TOTAL  | CUMUL. % |
|---------------------------------------|-------------------|-----------|-------------|----------|
|                                       | EASTBOUND         | WESTBOUND |             |          |
| 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                 |           | 1%          | 100%     |
| 45                                    | X X X             |           | 2%          | 100%     |
| 44                                    | X X X             |           | 2%          | 98%      |
| 43                                    | X X X X           |           | 2%          | 96%      |
| 42                                    | X X X X X         |           | 4%          | 94%      |
| 41                                    | X X X X X X       |           | 5%          | 90%      |
| 40                                    | X X X X X X X     |           | 4%          | 85%      |
| 39                                    | X X X X X X       |           | 5%          | 81%      |
| 38                                    | X X X X X X X     |           | 7%          | 77%      |
| 37                                    | X X X X X X X X   |           | 8%          | 70%      |
| 36                                    | X X X X X X X X   |           | 8%          | 62%      |
| 35                                    | X X X X X X X X   |           | 7%          | 55%      |
| 34                                    | X X X X X X X X   |           | 10%         | 48%      |
| 33                                    | X X X X X X X X   |           | 9%          | 39%      |
| 32                                    | X X X X X X X X   |           | 7%          | 30%      |
| 31                                    | X X X X X X X X   |           | 6%          | 24%      |
| 30                                    | X X X X X X X X   |           | 5%          | 18%      |
| 29                                    | X X X X X X X X   |           | 4%          | 13%      |
| 28                                    | X X X X X X X X   |           | 4%          | 10%      |
| 27                                    | X X X X X X X X   |           | 5%          | 6%       |
| 26                                    | X X X X X X X X   |           | 1%          | 1%       |
| 25                                    | X X               |           | 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%       |
| <b>TOTAL NUMBER OF VEHICLES = 200</b> |                   |           | <b>100%</b> |          |

# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 4/18/12 TIME START: 2:15 PM TIME STOP: 2:45 PM  
 DAY OF WEEK: Wednesday WEATHER: SUNNY

LOCATION: AVENIDA VISTA HERMOSA  
 Camino Vera Cruz to Avenida La Pata

ROAD CHARACTERISTICS:  
 Width (ft): 74 (sidewalk only)  
 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 at Vera Cruz, Sport Park/Target and at La Pata

ROADWAY CONDITIONS:  
 Lateral Visibility: good  
 Surface Condition: good  
 Driveway Density: none  
 Ped. & Bicycle Activity: medium

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

ACCIDENTS 3-YR TOTAL: 6  
 ACCIDENT RATE: 0.30 accidents per million vehicles miles  
 (11/2009 - 12/31/2011)

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

85TH %: 51 MPH  
 50TH %: 47 MPH  
 15TH %: 43 MPH  
 AVERAGE SPEED: 48 MPH  
 10 MPH PACE: 43 - 52 MPH  
 % IN PACE: 85%  
 % OVER PACE: 9%  
 % UNDER PACE: 6%

**COMMENTS AND/OR RECOMMENDATIONS:**

Based on geometric design of the street, its location in the proximity of the Sports Park and Target shopping center, it is recommended to post the speed limit on this segment of Avenida Vista Hermosa at 45 MPH.

OBSERVED BY: Jane Mrotek  
 STUDY PREPARED BY: Jane Mrotek  
 RECOMMENDATION APPROVED BY: Thomas Frank, P.E.  
 PER C.V.C. 40802, SURVEY EXPIRES: 4/18/2017

| SPEED (MPH)                           | VEHICLES SURVEYED           |           | % OF TOTAL  | CUMUL. % |
|---------------------------------------|-----------------------------|-----------|-------------|----------|
|                                       | EASTBOUND                   | WESTBOUND |             |          |
| 65                                    |                             |           | 0%          | 100%     |
| 64                                    |                             |           | 0%          | 100%     |
| 63                                    |                             |           | 0%          | 100%     |
| 62                                    |                             |           | 0%          | 100%     |
| 61                                    |                             |           | 0%          | 100%     |
| 60                                    |                             |           | 0%          | 100%     |
| 59                                    |                             |           | 0%          | 100%     |
| 58                                    | X                           |           | 1%          | 100%     |
| 57                                    |                             |           | 0%          | 99%      |
| 56                                    | X X X                       |           | 1%          | 98%      |
| 55                                    | X                           |           | 2%          | 96%      |
| 54                                    | X                           |           | 0%          | 95%      |
| 53                                    | X X X X X                   |           | 4%          | 91%      |
| 52                                    | X X X X X X X               |           | 5%          | 86%      |
| 51                                    | X X X X X X X X X           |           | 9%          | 77%      |
| 50                                    | X X X X X X X X X X X       |           | 13%         | 64%      |
| 49                                    | X X X X X X X X X X X X     |           | 12%         | 52%      |
| 48                                    | X X X X X X X X X X X X X   |           | 10%         | 42%      |
| 47                                    | X X X X X X X X X X X X X X |           | 10%         | 33%      |
| 46                                    | X X X X X X X X             |           | 6%          | 23%      |
| 45                                    | X X X X X X X X X           |           | 6%          | 18%      |
| 44                                    | X X X X X X X X X X         |           | 5%          | 12%      |
| 43                                    | X X X X X X X X X X X       |           | 2%          | 8%       |
| 42                                    | X X X X X X X X X X X X     |           | 2%          | 4%       |
| 41                                    | X X X X X X X X X X X X X   |           | 1%          | 2%       |
| 40                                    | X X X X X X X X X X X X X X |           | 0%          | 1%       |
| 39                                    |                             |           | 0%          | 0%       |
| 38                                    |                             |           | 0%          | 0%       |
| 37                                    | X                           |           | 0%          | 0%       |
| 36                                    |                             |           | 0%          | 0%       |
| 35                                    |                             |           | 0%          | 0%       |
| 34                                    |                             |           | 0%          | 0%       |
| 33                                    |                             |           | 0%          | 0%       |
| 32                                    |                             |           | 0%          | 0%       |
| 31                                    |                             |           | 0%          | 0%       |
| 30                                    |                             |           | 0%          | 0%       |
| 29                                    |                             |           | 0%          | 0%       |
| 28                                    |                             |           | 0%          | 0%       |
| 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%       |
| <b>TOTAL NUMBER OF VEHICLES = 205</b> |                             |           | <b>100%</b> |          |

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# CITY OF SAN CLEMENTE

## SPEED LIMIT - ENGINEERING & TRAFFIC SURVEY

DATE OF SURVEY: 4/18/12 TIME START: 1:30 PM TIME STOP: 2:05 PM  
 DAY OF WEEK: Wednesday WEATHER: SUNNY

| SPEED (MPH)                           | VEHICLES SURVEYED |           | CUMUL %     |
|---------------------------------------|-------------------|-----------|-------------|
|                                       | EASTBOUND         | WESTBOUND |             |
| 65                                    |                   |           | 0%          |
| 64                                    |                   |           | 0%          |
| 63                                    |                   |           | 0%          |
| 62                                    |                   |           | 0%          |
| 61                                    |                   |           | 0%          |
| 60                                    |                   |           | 0%          |
| 59                                    |                   |           | 0%          |
| 58                                    |                   |           | 0%          |
| 57                                    |                   |           | 0%          |
| 56                                    |                   |           | 0%          |
| 55                                    |                   |           | 0%          |
| 54                                    |                   |           | 0%          |
| 53                                    |                   |           | 0%          |
| 52                                    |                   |           | 0%          |
| 51                                    |                   |           | 0%          |
| 50                                    |                   |           | 0%          |
| 49                                    |                   |           | 0%          |
| 48                                    |                   |           | 0%          |
| 47                                    |                   |           | 0%          |
| 46                                    |                   |           | 0%          |
| 45                                    |                   |           | 0%          |
| 44                                    |                   |           | 0%          |
| 43                                    |                   |           | 0%          |
| 42                                    |                   |           | 0%          |
| 41                                    |                   |           | 0%          |
| 40                                    |                   |           | 0%          |
| 39                                    |                   |           | 0%          |
| 38                                    |                   |           | 0%          |
| 37                                    |                   |           | 0%          |
| 36                                    | X                 |           | 2%          |
| 35                                    |                   |           | 1%          |
| 34                                    | X X X X X         |           | 3%          |
| 33                                    | X X X X X         |           | 4%          |
| 32                                    | X X X X X         |           | 8%          |
| 31                                    | X X X X X         |           | 8%          |
| 30                                    | X X X X X X       |           | 11%         |
| 29                                    | X X X X X X X     |           | 16%         |
| 28                                    | X X X X X X X X   |           | 14%         |
| 27                                    | X X X X X X X X X |           | 11%         |
| 26                                    | X X X X X X X X X |           | 8%          |
| 25                                    | X X X X X X X X X |           | 4%          |
| 24                                    | X X X X X         |           | 1%          |
| 23                                    | X                 |           | 0%          |
| 22                                    |                   |           | 0%          |
| 21                                    |                   |           | 0%          |
| 20                                    |                   |           | 0%          |
| 19                                    |                   |           | 0%          |
| 18                                    |                   |           | 0%          |
| 17                                    |                   |           | 0%          |
| 16                                    |                   |           | 0%          |
| 15                                    |                   |           | 0%          |
| <b>TOTAL NUMBER OF VEHICLES = 119</b> |                   |           | <b>100%</b> |

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

**ROAD CHARACTERISTICS:**  
 Width (ft): 40  
 No. of Lanes for Both Directions: 2  
 Horizontal Alignment Design Speed: 30 MPH  
 Vertical Alignment Design Speed: 25 MPH

Sidewalks/Driveways: yes  
 On-Street Parking: yes  
 Crosswalks: yes  
 Traffic Controls: Traffic signal light at Ave Pico

**ROADWAY CONDITIONS:**  
 Lateral Visibility: limited  
 Surface Condition: good

Driveway Density: medium  
 Ped. & Bicycle Activity: high

**AVERAGE DAILY TRAFFIC:** 7,700

**SEGMENT LENGTH (ft):** 1,745

**ACCIDENTS 3-YR TOTAL:** 5

**ACCIDENT RATE:** 1.79 accidents per million vehicles miles  
(11/1/2009 - 12/31/2011)

**EXISTING SPEED LIMIT:** 25 MPH

**APPROVED SPEED LIMIT:** 25 MPH

**85TH %:** 31 MPH

**50TH %:** 27 MPH

**15TH %:** 25 MPH

**AVERAGE SPEED:** 29 MPH

**10 MPH PACE:** 24 - 33 MPH

**% IN PACE:** 93%

**% OVER PACE:** 6%

**% UNDER PACE:** 1%

**COMMENTS AND/OR RECOMMENDATIONS:**  
 Based on geometric design of the street, limited line of sight distance, high pedestrian volume, location of San Clemente high school and shopping center driveways fronting the street, it is recommended to post a speed limit on this segment of Avenida Presidio at 25 MPH.

**OBSERVED BY:** Jane Mrotek

**STUDY PREPARED BY:** Jane Mrotek

**RECOMMENDATION APPROVED BY:** Thomas Frank, P.E.

**PER C.V.C. 40802, SURVEY EXPIRES:** 4/18/2017

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