

# AGENDA REPORT

## Meeting of the San Marcos Traffic Commission

**MEETING DATE:** October 6, 2021

**AGENDA ITEM NO:** 7A

**SUBMITTED BY:** Manas Bista, P.E. – Associate Civil Engineer - Traffic

**APPROVED BY:** Nic Abboud, P.E. – Principal Civil Engineer - Transportation

**SUBJECT:** N. Twin Oaks Valley Rd. (Frontage Road) Speeding Concerns

### **BACKGROUND:**

Engineering staff was approached by a local resident reporting vehicular speeding along the frontage road of N. Twin Oaks Valley Road in the northern part of the City. This roadway segment is located in the Vicinity of La Cienega Drive and Del Roy Road and parallels the mainline of N. Twin Oaks Valley Road on the west side. This is a fairly straight segment and consists of two lanes of travel (one in each direction) and bike lanes (one in each direction) along the entire segment. There are no posted speed limit signs along this roadway and one side of the street (west side) serves single-family home residences while the other side (east side) of the frontage road abuts the west of Twin Oaks Valley Road and does not provide access to any surrounding land uses. The main access to this frontage road and the community to the west is via two intersections: a signalized intersection at Del Roy Drive toward the southern end of the frontage road, and a non-signalized driveway just south of La Cienega Road near the northern end of the frontage road. There is also a limited access (right-in right-out) driveway at the northernmost end of the roadway, north of La Cienega Road.

### **DISCUSSION:**

In response to the resident's concerns, City staff initiated data collection to assess the severity of the speeding issue and its impact on users of the roadway. Data collection included traffic volume and speeds for a period of seven days.

The analysis results show the 85<sup>th</sup> percentile speed to be 41 MPH for most days. Typically, the 85% percentile speed is used the Speed and Traffic Survey to guide the establishment of speed limits. The speed study also indicates that only half of the vehicles were reported to be traveling at speeds of 32 mph or less. This is the maximum travel speed one can expect to be present in a residential neighborhoods. The data also show that about 5% of the traffic was found to be traveling at excessive speeds of 45 mph or more (referred to as the 95<sup>th</sup> percentile speed). All of these statistics indicate high travel speeds for a residential neighborhood (See Table 1 below for details).

In accordance with the California Vehicle Code (CVC), a portion of a highway with 13 or more separate dwelling units on one side or 16 or more separate dwelling units on both sides of the street within a 1/4

mile distance, is considered to be a “residence district”. This study segment meets the CVC designation for a Residence District (CA Veh Code § 22352). The CVC code also establishes a 25-MPH speed limit in “any business or residence district”.

**CONCLUSION AND RECOMMENDATIONS:**

Engineering staff recommends the following improvements (see attached exhibits):

- 1) Establishment of 25-MPH speed limit through the entire length of the Twin Oaks Valley Road frontage road.
- 2) Installation of 25-MPH speed limit signs as indicated on the exhibit.
- 3) Installation of “25” Pavement markings adjacent to the speed limit signs as shown on the exhibits.
- 4) Deployment of the radar speed feedback trailers (one in each direction of travel) after the installation of the STOP signs in order to heighten driver awareness of the newly posted speed limit signs in an effort to solicit voluntary compliance.

**Traffic Data/Roadway Information:**

Detailed traffic volume and speed data are summarized herein in Table 1:

**Table 1. Summary of Daily Travel Speeds on the Frontage Road of N. Twin Oaks Valley Road**

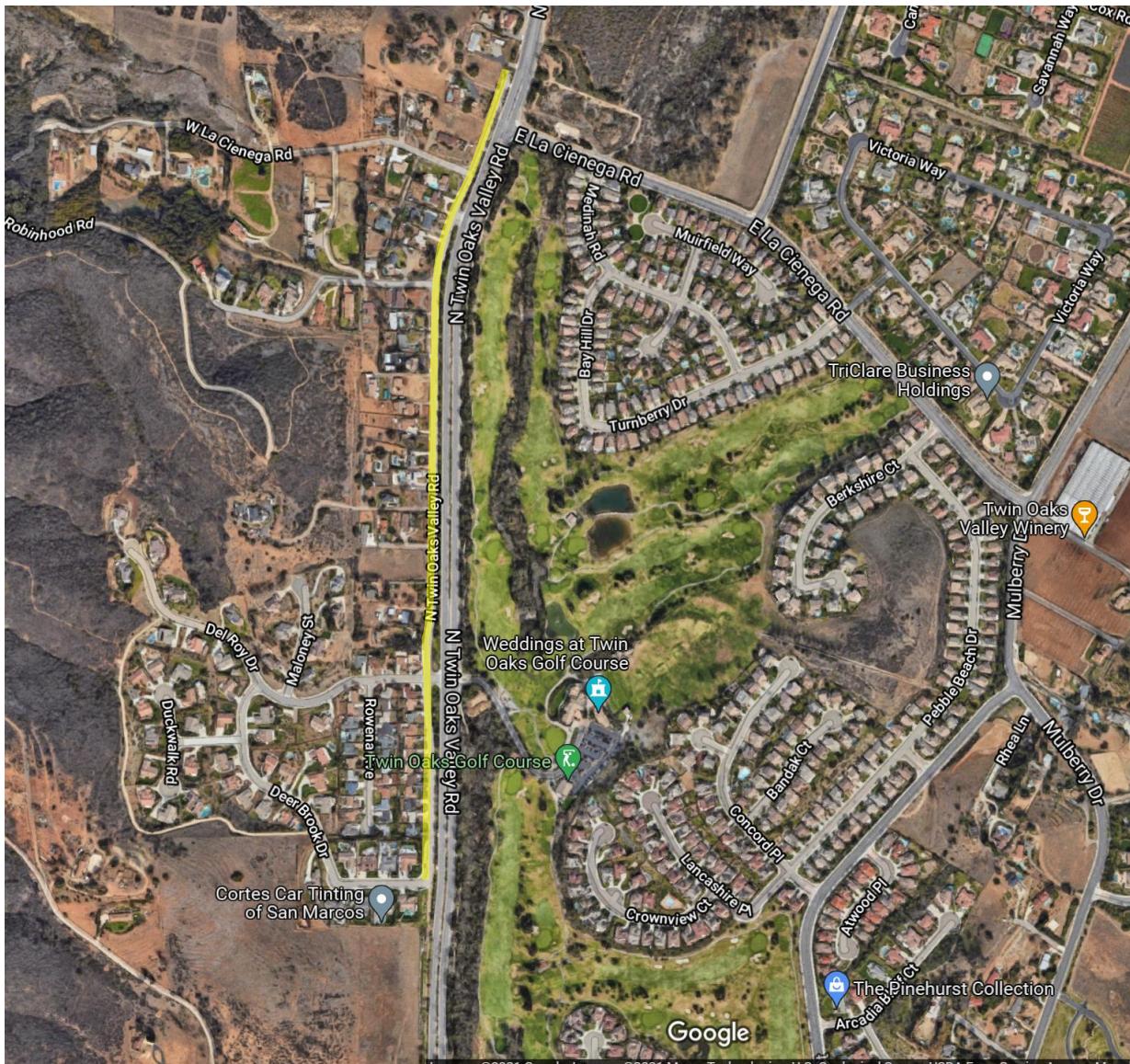
Day	Speed Percentile (Percent of Vehicles traveling at Corresponding Speeds)				
	50th	Average	85th	95th	ADT
Monday 8/2/21	32	31	39	44	162
Tuesday 8/3/21	33	31	41	45	187
Wednesday 8/4/21	32	31	41	45	156
Thursday 8/5/21	31	31	41	46	169
Friday 8/6/21	31	30	41	44	127
Saturday 8/7/21	31	31	41	46	169
Sunday 8/8/21	31	30	41	44	127

**Attachment(s)**

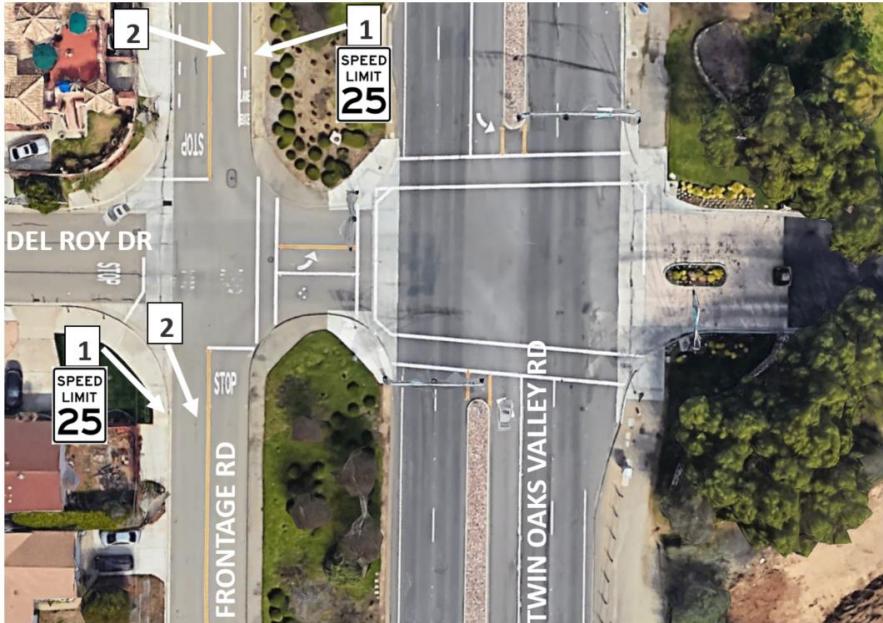
Vicinity Map

Exhibits of Proposed Speed limit Signing and Markings Improvements

## Vicinity Map



## Exhibits of Proposed Improvements



### CONSTRUCTION NOTES:

- 1** INSTALL NEW R2-1 (25 MPH, 24"x30", HI-INTENSITY) SIGN ON A NEW BREAKAWAY POST.
- 2** INSTALL "25" PAVEMENT LEGEND NEXT TO THE SIGN.



### CONSTRUCTION NOTES:

- 1** INSTALL NEW R2-1 (25 MPH, 24"x30", HI-INTENSITY) SIGN ON A NEW BREAKAWAY POST.
- 2** INSTALL "25" PAVEMENT LEGEND NEXT TO THE SIGN.