

AGENDA

Meeting of the San Marcos Traffic Commission

Meeting Date: July 1, 2020 | **Meeting Time:** 6:00 PM

Location: City Council Chambers, 1 Civic Center Drive, San Marcos CA 92069

Pursuant to Governor Newsom's Executive Order N-29-20 dated March 17, 2020, and Executive Order N 33-20 dated March 19, 2020, issued with respect to the COVID-19 pandemic, this Traffic Commission meeting will be conducted utilizing teleconferencing and electronic means. In the interest of reducing the spread of COVID-19, members of the public may only call in to hear the meeting and may not be present in the Council Chamber. The public will dial using your phone to 1-877-309-2073 and enter Access Code: 733-838-277

Public Comment: To submit a public comment at the Traffic Commission meeting, please email avelasquez@san-marcos.net and write "Public Comment" in the subject line, or identify the number of the Agenda item on which you are commenting. In the body of the email, include the item number and/or title of the item as well as your comments. Email comments on matters not on the agenda must be submitted prior to the time the Chair calls the Oral Communications item. Email comments on any agenda item must be submitted prior to the time the Chair closes public comments on the agenda item. Please be advised that all emailed comments are subject to the same rules as would otherwise apply to speaker comments at any Traffic Commission meeting, and that electronic comments on agenda items for this meeting may only be submitted by email. Comments via text message and/or social media (Facebook, Twitter, Instagram, etc.) will not be accepted.

The Traffic Commission Secretary will read all email comments, provided that the reading will not exceed five (5) minutes, or such other time as the Chair may provide, consistent with its ability to set time parameters for public comment at the Traffic Commission meeting. If persons submitting comments do not want their comment to be read out loud at the meeting (not to exceed five minutes), they should write "Do Not Read Out Loud at Meeting" at the top of the email. All emailed comments received by 4:00 pm will be provided to the Traffic Commission members and included as "Supplemental information" on the City's website prior to the meeting. Those comments received after 4:00 pm and prior to the close of public comment on the applicable agenda item will be added to the record and will be shared with the Traffic Commission members at the meeting.

Americans with Disabilities Act: If you need special assistance to participate in this meeting, please contact the City Clerk Department at (760) 744-1050, ext. 3105. Notification 48 hours in advance will enable the City to make reasonable arrangements to ensure accessibility to this meeting. Assisted listening devices are available for the hearing impaired. Please see the City Clerk if you wish to use this device.

Agendas: Agenda packets are available for public inspection 72 hours prior to scheduled meetings at the Information Desk counter located on the first floor of City Hall, 1 Civic Center Drive, San Marcos, during normal business hours or online at www.san-marcos.net.

Agenda-related writings or documents provided to a majority of the Commission after distribution of the agenda packet will be available for public inspection at the time of distribution at the Information Desk counter located on the first floor of City Hall, 1 Civic Center Drive, San Marcos, CA, during normal business hours.

1. CALL TO ORDER - 6:00 P.M.

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

Anyone wishing to speak to the Commission on any item must first complete a Request to Speak form and turn it in to the secretary

4. ORAL COMMUNICATIONS

Persons wishing to speak on a matter not on the agenda may be heard at this time; however, no action will be taken until placed on a future agenda.

5. APPROVAL OF MINUTES

March 4th, 2020

6. OLD BUSINESS

a. None

7. NEW BUSINESS

a. La Sombra Drive – Residential Speeding Concerns

8. REPORTS AND INFORMATION ITEMS

a. Work Order Updates

b. San Diego County Sheriff's Department Traffic Collision Summary And Accident Investigation Log

c. Traffic Commission Commentary

d. Staff Commentary

ADJOURNMENT



City of San Marcos
1 Civic Center Drive
San Marcos, CA 92069

AFFIDAVIT OF POSTING

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO) ss.
CITY OF SAN MARCOS)

I, Aurelia Velasquez, Secretary, San Marcos Traffic Commission, hereby certify that I caused the posting on June 24, 2020 of this agenda in the glass display case at the north entrance of City Hall.

DATED: June 24, 2020



Aurelia Velasquez,
Traffic Commission Secretary

MINUTES

Meeting of the San Marcos Traffic Commission

WEDNESDAY, MARCH 5, 2020 | 6:00 PM

City Council Chambers, 1 Civic Center Drive, San Marcos, CA 92069

CALL TO ORDER:

Chairman Rico called the Traffic Commission Meeting to order at 6:00 p.m.

PLEDGE OF ALLEGIANCE:

Led by Commissioner Gregory Hoaglin

ROLL CALL:

PRESENT: COMMISSIONERS: RICO, HOAGLIN, MASTERSON, ERICKSON, SCHELLENGER, BRIDGE AND HANSEN

ABSENT: COMMISSIONERS: COLLINS

ALSO PRESENT:

Senior Traffic Engineer, Mike Rafael; Principal Traffic Engineer, Nicholas Abboud; Traffic Sergeant, Nicholas Maryn; and Traffic Commission Secretary, Aurelia Velasquez & Danielle Norris.

ORAL COMMUNICATIONS:

Paul Nelson, who resides at 102 Crimson Drive, is concern for the safety of the children that play on Crimson Drive due to excessive speeding motorists. Crimson Drive has been an agenda topic in the past and would like to request for Crimson Drive to be added to a future agenda.

APPROVAL OF MINUTES – FEBRUARY 5, 2020

Commissioner Hoaglin makes a motion to accept the minutes as recorded. Motion carries.

AYES: COMMISSIONERS: HOAGLIN, ERICKSON, SCHELLENGER, MASTERSON AND RICO

NOES: COMMISSIONERS:

ABSTAINS: COMMISSIONERS: BRIDGE, HANSEN

OLD BUSINESS

A. Intersection of Cox Road and Savannah Way- Traffic Safety Alternatives

Traffic Commission voted to disapprove staff's recommendations for installation of an ALL WAY STOP control (AWSC) at the intersection of Cox Road and Savannah Way last month. Traffic Commission

directed City staff to evaluate alternative countermeasures to enhance traffic safety at the intersection.

The study area addressed in this report is the intersection of Cox Road and Savannah Way. Cox Road between Sycamore Drive and Mulberry Drive is classified as a local collector street. The roadway segment consists of two (2) lanes, 0.4 miles in length, and varies in paved width between 22 and 28 feet. Savannah Way is a private street that intersects with Cox Road and provides the main access to approximately (9) single family homes. There is an existing equestrian trail along the south side of this roadway segment, but no existing sidewalks. The posted speed limit per the latest Engineering and Traffic Survey is 30 MPH.

As directed, City staff reevaluated the available line of sight at the intersection and determined that additional sight distance could be attained by having motorist "Creep" beyond the STOP bar, closer to the edge of the travel way, a maneuver observed in the field and is allowable in the California Vehicle Code (CVC). This condition would put the driver's position approximately 7-feet back from the edge of the southerly curb line, thus avoiding the line of sight obstruction by the existing trees and lodge pole fencing. In addition, City staff identified the obstruction to the line of sight by the existing trees and landscaping (Agapanthus plants) in the planter area between the lodge pole fencing and the southern curb line, and the improvement to the line of sight that could be gained by substituting the landscaping for low-profile groundcover in the first 100 feet of the planter area just west of Savannah Way.

CONCLUSION AND RECOMMENDATIONS:

To improve the line of sight at the intersection and to meet current State standards for proper sight distance, engineering staff recommends the removal and replacement of the existing vegetation in the planter area between the lodge pole fencing and the southern curb line of Cox Road, with new low-profile groundcover for a distance of approximately 100 feet west of Savannah Way. Staff also recommends the installation of the following traffic signing and striping improvements to help reduce vehicle travel speeds on Cox Road.

- 1) Installation of new intersection and raised median warning signs with advisory speed limits (20 MPH) signs in both direction of Cox Road.

- 2) Installation of a 6-inch yellow left edge line adjacent to the raised center median for approximately 330 feet in length along both directions of Cox Road.
- 3) Installation of a 4-inch white right edge line, 2 feet from the existing southerly curb line for approximately 420 feet in length along both directions of Cox Road.

John Jacob, who resides at 1789 Savannah Way, is in support for an ALL WAY STOP sign.

Commissioner Hansen makes a motion to accept the minutes as recorded. Commissioner Erickson seconds the motion. Motion carries.

AYES: COMMISSIONERS: HOAGLIN, SCHELLENGER, MASTERSON, RICO, ERICKSON, HANSEN AND BRIDGE

NOES: COMMISSIONERS:

ABSTAINS: COMMISSIONERS:

NEW BUSINESS

None

REPORTS AND INFORMATION ITEMS

A. Engineering Staff Updates:

Melrose Drive speeding and traffic safety concerns update

B. San Diego County Sheriff's Department Traffic Collision Summary And Accident Investigation Log:

(9) DUI/Alcohol Arrest

(4) DUI Accidents

(12) Injury Collisions

(22) Non Injury Collisions

(17) Persons Injured

(1) Bicyclist Collisions

(1) Bicyclist Injured

C. Traffic Commission Commentary: Commissioner Erickson- San Elijo Road at Schoolhouse way traffic has improved.

D. Staff Commentary:

Richland Elementary School- Dismissal traffic and congestion; City staff to evaluate

Upcoming workshops for General Plan update on City's website

Speed cushion pilot project-City staff to present in future agenda

ADJOURNMENT:

Chairman Rico adjourned the meeting at 6:52 pm.

Arturo Rico, Chairman
Traffic Commission

ATTEST:

Aurelia Velasquez, Secretary
Traffic Commission

AGENDA REPORT

Meeting of the San Marcos Traffic Commission

MEETING DATE: July 1, 2020
AGENDA ITEM NO: 7A
SUBMITTED BY: Michael Rafael, P.E. – Senior Civil Engineer
APPROVED BY: Nic Abboud, P.E. – Principal Civil Engineer
SUBJECT: La Sombra Drive – Residential Speeding Concerns

BACKGROUND:

Engineering staff received traffic safety concerns from San Marcos residents living adjacent to La Sombra Drive. Residents reported residential speeding along La Sombra Drive between Discovery Street and Quail Hill Drive. City staff have deployed their mobile speed radar trailers in the past to help reduce residential speeding. However, residents feel that the speed radar trailers did not have enough impact to slow down motorists.

Residents have suggested the following solutions to City staff for reducing vehicular speeds on La Sombra Drive:

- 1) Installation of additional 25 MPH speed limit signs.
- 2) Increased speed enforcement.
- 3) Installation of an all-way STOP sign at the intersection of La Sombra Drive and Quail Hill Drive.
- 4) Installation of speed bumps/cushions.

Based on the residents' concerns, Engineering staff initiated a traffic safety evaluation of La Sombra Drive, between Jugador Court and Discovery Street, to determine if traffic calming alternatives would be warranted.

DISCUSSION:

The study area is located on La Sombra Drive between Jugador Court and Discovery Street in the City of San Marcos, east of the Lake San Marcos community in the County of San Diego (see attached Vicinity Map). This roadway section is classified as a two-lane residential street, approximately 1/2 mile in length, based on the City's Urban Street Design criteria. There are five (5) other residential streets that intersect La Sombra Drive: La Noche Drive, Quail Hill Drive, Baja Way, Valencia Avenue, and Jugador Court. There is an existing ALL-WAY STOP control at the intersection of La Noche Drive and La Sombra Drive. The street provides access to single family homes. There are intermittent sidewalks along La Sombra Drive. Typical street width on La Sombra Drive from Jugador Court and Discovery Street measures 40 feet curb-to-curb. However, the street width narrows to 36 feet in the

northbound direction starting approximately 320-feet south of Discovery Street. There are no restrictions for on-street parking.

The slope of the street from Jugador Court to Baja Way is approximately 6.4 percent. From Baja Way to Quail Hill Drive, the street slope varies from 8 to 15 percent. The northbound direction on this roadway segment is on a steep downhill grade. There are also existing horizontal roadway segments with curvilinear alignment between Jugador Court and Quail Hill Drive. From Quail Hill Drive to Discovery Street, the street slope is relatively flat in the both directions. The posted speed limit is 25 MPH, which meets the *prima facie* speed limit and residential density criteria per the California Vehicle Code (CVC).

Engineering staff conducted an engineering study to determine if traffic calming measures may be warranted on La Sombra Drive. Engineering staff collected both traffic speed and volume data for one mid-week day at the midblock of the street (between La Noche Drive and Quail Hill Drive). Based on the data collected, the highest traffic volumes along the roadway segment occurred during the morning peak (8-9 am) and afternoon peak (2-3 pm) which is consistent with residential traffic patterns. The 85th percentile speeds and ADTs (average daily traffic) are summarized in a table (see attached).

The 85th percentile speeds recorded during the collection period were 34 MPH (southbound) (northbound.) City staff observed that the majority of motorists traveling northbound from Quail Hill Drive to La Noche Drive tend to increase their vehicle speeds through the steep downhill roadway grade (8-15 percent) from Baja Way to Quail Hill Drive.

Speeds greater than 7 MPH over the posted speed limit are generally considered candidates for some type of traffic calming on residential streets. Collected traffic volumes are consistent with the residential-collector roadway classification, with an average of 1,575 vehicles per day (VPD). Based on a review of the existing and adjacent single family developments on La Sombra Drive, cut-through traffic is non-existent, and the majority of frequent offenders are considered to be nearby area-residents. Engineering staff also reviewed traffic collisions within the last five (5) years along La Sombra Drive, and found that there have been no collisions reported on La Sombra Drive between Discovery Street and Jugador Court.

Engineering staff reviewed residents' request for ALL-WAY STOP control at the intersection of La Sombra Drive and Quail Hill Drive as an alternate means to reduce vehicle speeds. Per the California Manual on Uniform Traffic Control Devices (CAMUTCD), ALL-WAY STOP controls at intersections are intended to assign movement right-of-way at locations where traffic volumes are approximately equal from all approaches, and not intended for speed control. Other criteria used for warranting an ALL-WAY STOP control include the following: five (5) or more reported crashes in a year, the need to control left-turn conflicts, high pedestrian volumes at the intersection, sight distance limitations, and an intersection of two residential through-streets of similar design and operating characteristics where an ALL-WAY STOP control would improve traffic operations.

Staff review showed that traffic volumes to be unequal, stopping sight distance sufficient, and pedestrian crossings observed during peak hours to be low at the intersection of La Sombra Drive and Quail Hill Drive. There is an obstruction to the line of sight at the intersection caused by existing vegetation south of the intersection. However, removing or trimming the vegetation back can enhance the line of sight at the intersection to meet the required minimum sight distance for a residential street. In addition, a new intersection warning sign (W2-2) is recommended in the northbound direction in advance of the intersection at Quail Hill Drive to inform motorists of the upcoming intersection. Therefore, based on staff's evaluation of the uncontrolled intersection, ALL-WAY STOP controls are not warranted at this time since CAMUTCD criteria were not met.

Speed bumps or speed cushions are not recommended due to the existing steep roadway grade and delays to emergency response times. City staff is considering the experimental use of speed cushions (speed humps with cut-outs for fire truck wheels) on residential streets, and is currently coordinating with the Fire Department on drafting guidelines for implementation.

Based on the findings of this study, Engineering staff proposes the use of edgeline striping as an alternative and effective traffic calming measure to help reduce speeds on residential streets. Past studies have shown a decrease in vehicle speeds ranging from 2 to 7 MPH when roadway striping is implemented as a traffic calming measure. The proposed edgeline roadway striping creates narrow travel lanes, which adds friction to roadway users, thereby inducing drivers to lower their speeds. Similarly, the use of edgeline striping is a low-cost option to install and allows emergency vehicles to maintain their response speeds. This traffic calming measure is recommended on La Sombra Drive between Discovery Street and Quail Hill Drive as the City's initial attempt to implement traffic calming measures and improve livability in the neighborhood. In addition, City staff recommends installation of additional 25 MPH speed limit signs between La Noche Drive and Valencia Avenue to inform motorists of the residential 25 MPH speed zone.

CONCLUSION AND RECOMMENDATIONS:

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

- 1) Installation of edgeline striping consisting of a four-inch white line on La Sombra Drive between Quail Hill Drive and Discovery Street as an effective traffic calming measure.
- 2) Installation of new speed limit signs (25 MPH) on La Sombra Drive between La Noche Drive and Valencia Avenue to inform motorists of the residential 25 MPH zone.
- 3) Install new intersection warning sign (W2-2) to inform motorists in advance of the intersection of Quail Hill Drive and La Sombra Drive in the northbound direction.
- 4) Installation of new double yellow centerline from Valencia Avenue to La Noche Drive due to the curvilinear alignment of the roadway and to help motorists stay in their lane as they navigate through the existing roadway curves.



City of San Marcos
1 Civic Center Drive
San Marcos, CA 92069

5) Deployment of the City's mobile speed radar trailers to help build and reinforce speed compliance on La Sombra Drive.

Traffic Data/Roadway Information:

Traffic Volumes:

La Sombra Drive, La Noche Drive and Quail Hill Drive - 1575 VPD (vehicles per day, December 2019).

Speed Limit:

Prima Facie (25 MPH), posted.

Accident History (last 5 years):

None

Attachment(s)

Vicinity Map

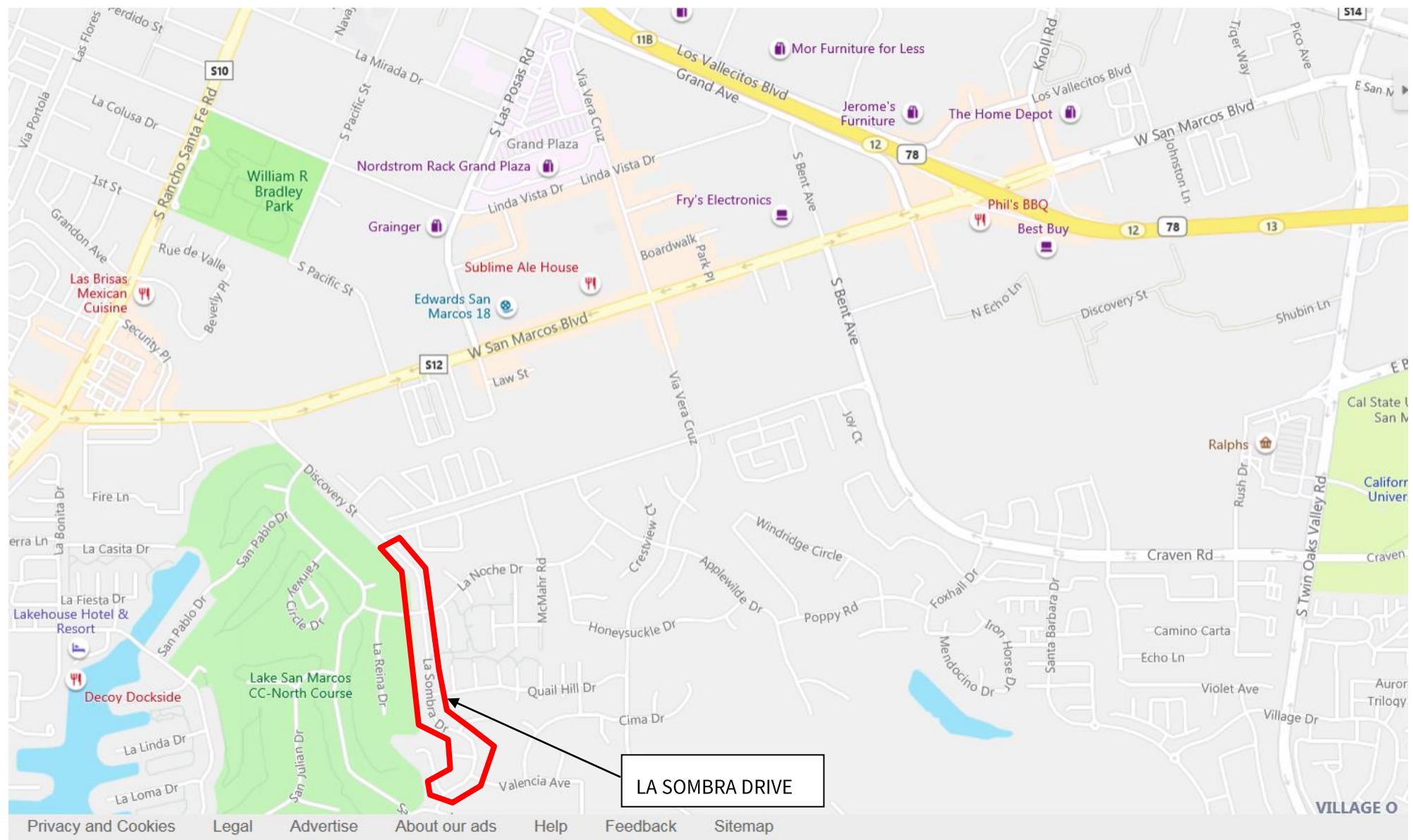
Proposed Traffic Signing and Striping Improvements Exhibit

Traffic Volume and Speed Data Sheet

Photos

VICINITY MAP

LA SOMBRA DRIVE BETWEEN JUGADOR COURT AND DISCOVERY STREET

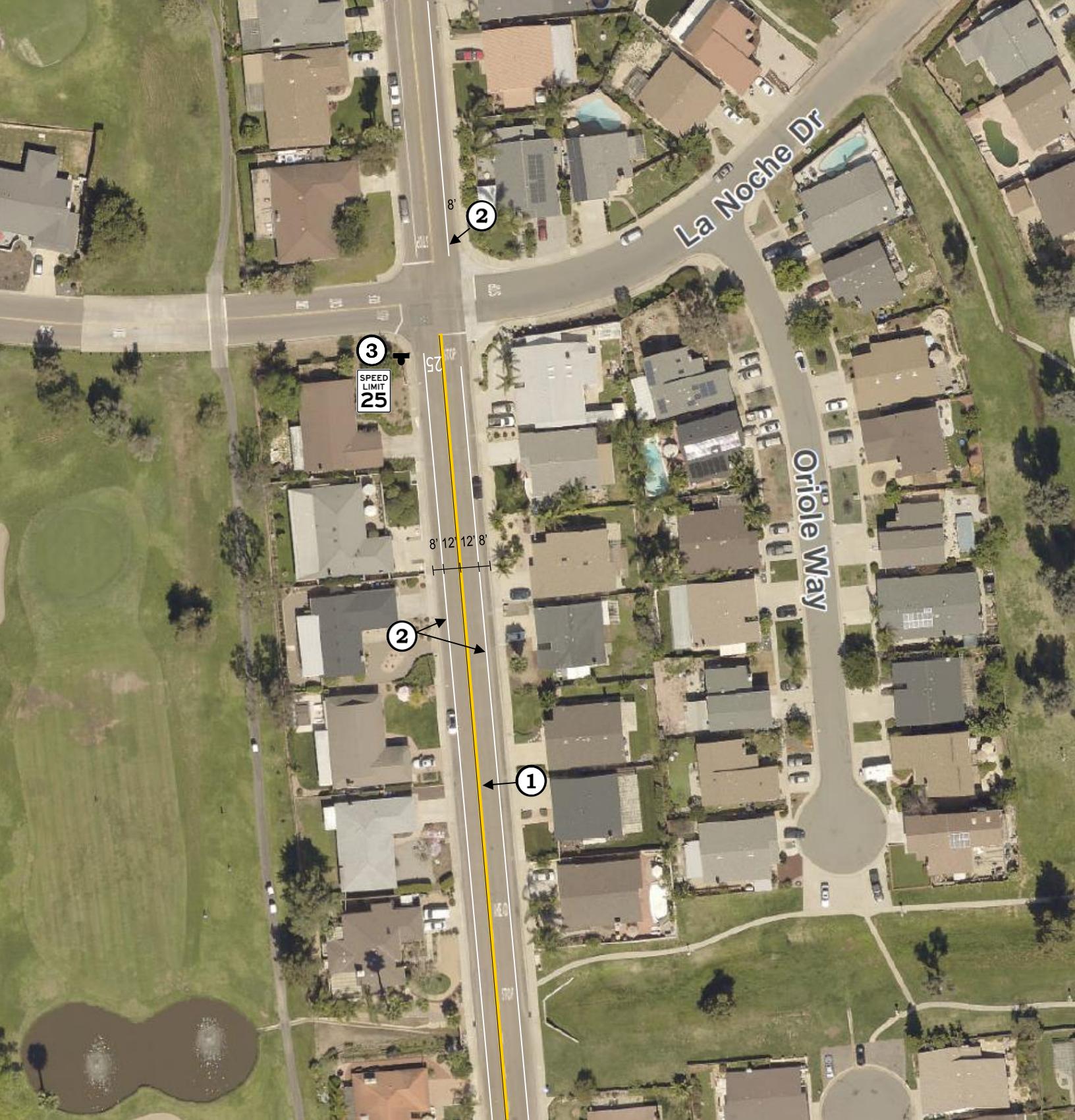


TC AGENDA #7A

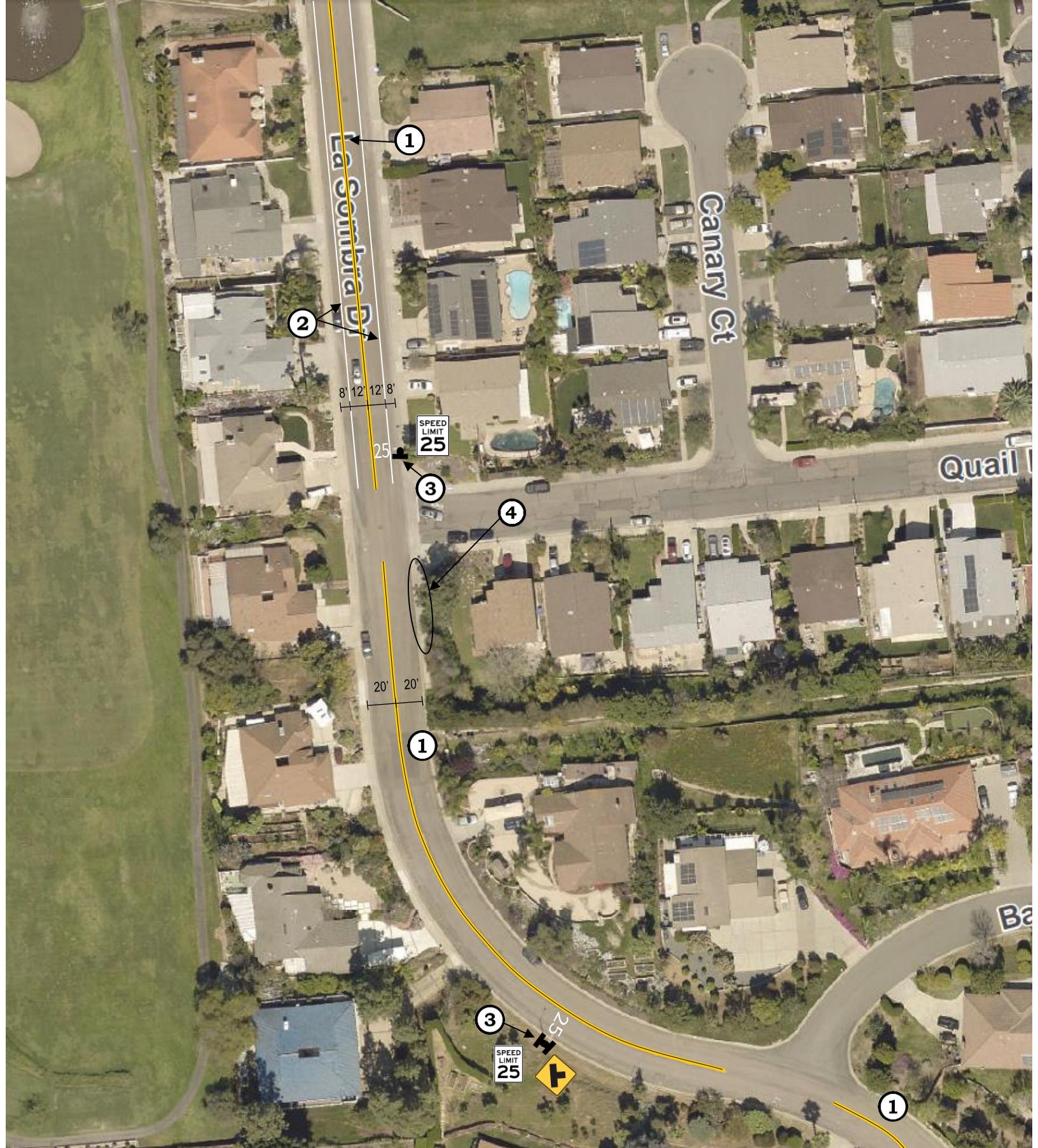
JULY 1, 2020



*NOT TO SCALE



*NOT TO SCALE



- ① INSTALL DOUBLE YELLOW CENTER LINE (DETAIL 21). MATCH WITH EXISTING CENTER LINE.
- ② INSTALL RIGHT WHITE EDGE LINE (DETAIL 27B).
- ③ INSTALL NEW R2-1 (25 MPH, 24"X30", HI-INTENSITY) SIGN ON EXIST. STREET LIGHT POLE AND 25 MPH PAVEMENT LEGEND.
- INSTALL NEW W2-2 SIGN (INT AHEAD) ON EXIST. STREET LIGHT.
- ④ REMOVE/TRIM EXISTING VEGETATION TO INCREASE SIGHT DISTANCE AT INTERSECTION

LA SOMBRA DRIVE
PROPOSED TRAFFIC SIGNAGE
AND STRIPING IMPROVEMENTS



*NOT TO SCALE



CONSTRUCTION NOTES:

- ① INSTALL DOUBLE YELLOW CENTER LINE (DETAIL 21). MATCH WITH EXISTING CENTER LINE.
- ② INSTALL NEW R2-1 (25 MPH, 24"X30", HI-INTENSITY) SIGN ON EXISTING STREET LIGHT POLE AND 25 MPH PAVEMENT LEGEND.

LA SOMBRA DRIVE
PROPOSED TRAFFIC SIGNAGE
AND STRIPING IMPROVEMENTS



*NOT TO SCALE

SPEED**La Sombra Dr Bet. 1034 La Sombra Dr & 1042 La Sombra Dr**

Day: Tuesday

Date: 12/10/2019

City: San Marcos

Project #: CA19_4465_001

Summary

Time	< 15	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 +	Total
00:00 AM	0	0	1	0	2	0	0	0	0	0	0	0	0	3
01:00	0	0	0	2	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	1	0	0	0	0	0	0	0	0	0	2
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	1	1	1	2	2	0	0	0	0	0	0	0	8
05:00	0	0	1	10	8	1	1	0	0	0	0	0	0	21
06:00	0	1	7	18	21	5	3	0	0	0	0	0	0	55
07:00	1	1	10	49	31	7	2	0	0	0	0	0	0	101
08:00	1	2	10	57	49	15	0	0	0	0	0	0	0	134
09:00	0	4	14	20	27	11	1	0	0	0	0	0	0	77
10:00	0	2	12	25	51	10	2	0	0	0	0	0	0	102
11:00	3	4	15	40	22	10	0	0	0	0	0	0	0	94
12:00 PM	1	3	10	37	51	13	1	0	0	0	0	0	0	116
13:00	1	2	14	35	39	10	0	0	0	0	0	0	0	101
14:00	1	6	16	41	42	12	1	0	0	0	0	0	0	119
15:00	0	6	16	68	42	6	1	0	0	0	0	0	0	139
16:00	1	2	17	48	39	14	1	0	0	0	0	0	0	122
17:00	0	1	27	46	34	7	1	1	0	0	0	0	0	117
18:00	0	1	13	44	32	7	0	0	0	0	0	0	0	97
19:00	1	3	5	19	17	5	1	0	0	0	0	0	0	51
20:00	0	1	4	18	20	5	0	0	0	0	0	0	0	48
21:00	0	1	5	11	11	5	0	0	0	0	0	0	0	33
22:00	0	1	3	8	7	4	0	0	0	0	0	0	0	23
23:00	0	1	2	2	3	2	0	0	0	0	0	0	0	10
Totals	12	43	203	600	550	151	15	1						1575
% of Totals	1%	3%	13%	38%	35%	10%	1%	0%						100%

AM Volumes	7	15	71	223	213	61	9	0	0	0	0	0	0	599
% AM	0%	1%	5%	14%	14%	4%	1%							38%
AM Peak Hour	11:00	09:00	11:00	08:00	10:00	08:00	06:00							08:00
Volume	3	4	15	57	51	15	3							134
PM Volumes	5	28	132	377	337	90	6	1	0	0	0	0	0	976
% PM	0%	2%	8%	24%	21%	6%	0%	0%						62%
PM Peak Hour	12:00	14:00	17:00	15:00	12:00	16:00	12:00	17:00						15:00
Volume	1	6	27	68	51	14	1	1						139
Directional Peak Periods			AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Speeds			Volume	235	↔	%	Volume	217	↔	%	Volume	239	↔	15%

Street Name	Direction	Percentiles					
		15th	50th	Average	85th	95th	ADT
La Sombra Dr	Summary	24	29	29	34	38	1575

VOLUME

La Sombra Dr Bet. 1034 La Sombra Dr & 1042 La Sombra Dr

Day: Tuesday
Date: 12/10/2019City: San Marcos
Project #: CA19_4465_001

DAILY TOTALS				NB 794	SB 781	EB 0	WB 0					Total 1,575
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL	
00:00	0	0	0	0		12:00	12	14	0	0	26	
00:15	0	1	0	0	1	12:15	16	12	0	0	28	
00:30	1	1	0	0	2	12:30	15	15	0	0	30	
00:45	0	1	2	0	3	12:45	11	54	21	62	0	32 116
01:00	0	1	0	0	1	13:00	10	14	0	0	24	
01:15	0	1	0	0	1	13:15	12	18	0	0	30	
01:30	0	0	0	0		13:30	11	10	0	0	21	
01:45	0	0	2	0	2	13:45	11	44	15	57	0	26 101
02:00	0	0	0	0		14:00	18	20	0	0	38	
02:15	0	2	0	0	2	14:15	15	12	0	0	27	
02:30	0	0	0	0		14:30	10	15	0	0	25	
02:45	0	0	2	0	2	14:45	18	61	11	58	0	29 119
03:00	0	0	0	0		15:00	22	24	0	0	46	
03:15	0	0	0	0		15:15	12	25	0	0	37	
03:30	0	0	0	0		15:30	11	16	0	0	27	
03:45	0	0	0	0		15:45	12	57	17	82	0	29 139
04:00	1	1	0	0	2	16:00	13	17	0	0	30	
04:15	1	0	0	0	1	16:15	10	19	0	0	29	
04:30	4	0	0	0	4	16:30	19	22	0	0	41	
04:45	0	6	1	2	8	16:45	10	52	12	70	0	22 122
05:00	4	1	0	0	5	17:00	9	29	0	0	38	
05:15	5	0	0	0	5	17:15	16	13	0	0	29	
05:30	3	0	0	0	3	17:30	13	15	0	0	28	
05:45	6	18	2	3	21	17:45	8	46	14	71	0	22 117
06:00	5	3	0	0	8	18:00	8	25	0	0	33	
06:15	6	3	0	0	9	18:15	6	15	0	0	21	
06:30	12	2	0	0	14	18:30	5	14	0	0	19	
06:45	16	39	8	16	55	18:45	10	29	14	68	0	24 97
07:00	18	6	0	0	24	19:00	7	7	0	0	14	
07:15	16	3	0	0	19	19:15	1	8	0	0	9	
07:30	24	9	0	0	33	19:30	6	9	0	0	15	
07:45	20	78	5	23	101	19:45	3	17	10	34	0	13 51
08:00	16	3	0	0	19	20:00	6	6	0	0	12	
08:15	35	14	0	0	49	20:15	4	7	0	0	11	
08:30	21	16	0	0	37	20:30	5	10	0	0	15	
08:45	20	92	9	42	134	20:45	1	16	9	32	0	10 48
09:00	10	5	0	0	15	21:00	2	9	0	0	11	
09:15	14	4	0	0	18	21:15	3	4	0	0	7	
09:30	19	7	0	0	26	21:30	4	4	0	0	8	
09:45	10	53	8	24	77	21:45	4	13	3	20	0	7 33
10:00	14	7	0	0	21	22:00	3	9	0	0	12	
10:15	14	14	0	0	28	22:15	1	4	0	0	5	
10:30	17	9	0	0	26	22:30	0	2	0	0	2	
10:45	15	60	12	42	102	22:45	3	7	1	16	0	4 23
11:00	10	9	0	0	19	23:00	1	3	0	0	4	
11:15	13	16	0	0	29	23:15	0	3	0	0	3	
11:30	12	8	0	0	20	23:30	0	2	0	0	2	
11:45	15	50	11	44	94	23:45	0	1	1	9	0	1 10
TOTALS	397	202			599	TOTALS	397	579			976	
SPLIT %	66.3%	33.7%			38.0%	SPLIT %	40.7%	59.3%			62.0%	

DAILY TOTALS				NB 794	SB 781	EB 0	WB 0					Total 1,575
AM Peak Hour	07:30	11:45		08:00	PM Peak Hour	14:15	15:00					14:45
AM Pk Volume	95	52		134	PM Pk Volume	65	82					139
Pk Hr Factor	0.679	0.867		0.684	Pk Hr Factor	0.739	0.820					0.755
7 - 9 Volume	170	65	0	235	4 - 6 Volume	98	141	0	0			239
7 - 9 Peak Hour	07:30	08:00		08:00	4 - 6 Peak Hour	16:30	16:15					16:15
7 - 9 Pk Volume	95	42	0	134	4 - 6 Pk Volume	54	82	0	0			130
Pk Hr Factor	0.679	0.656	0.000	0.684	Pk Hr Factor	0.711	0.707	0.000	0.000			0.793

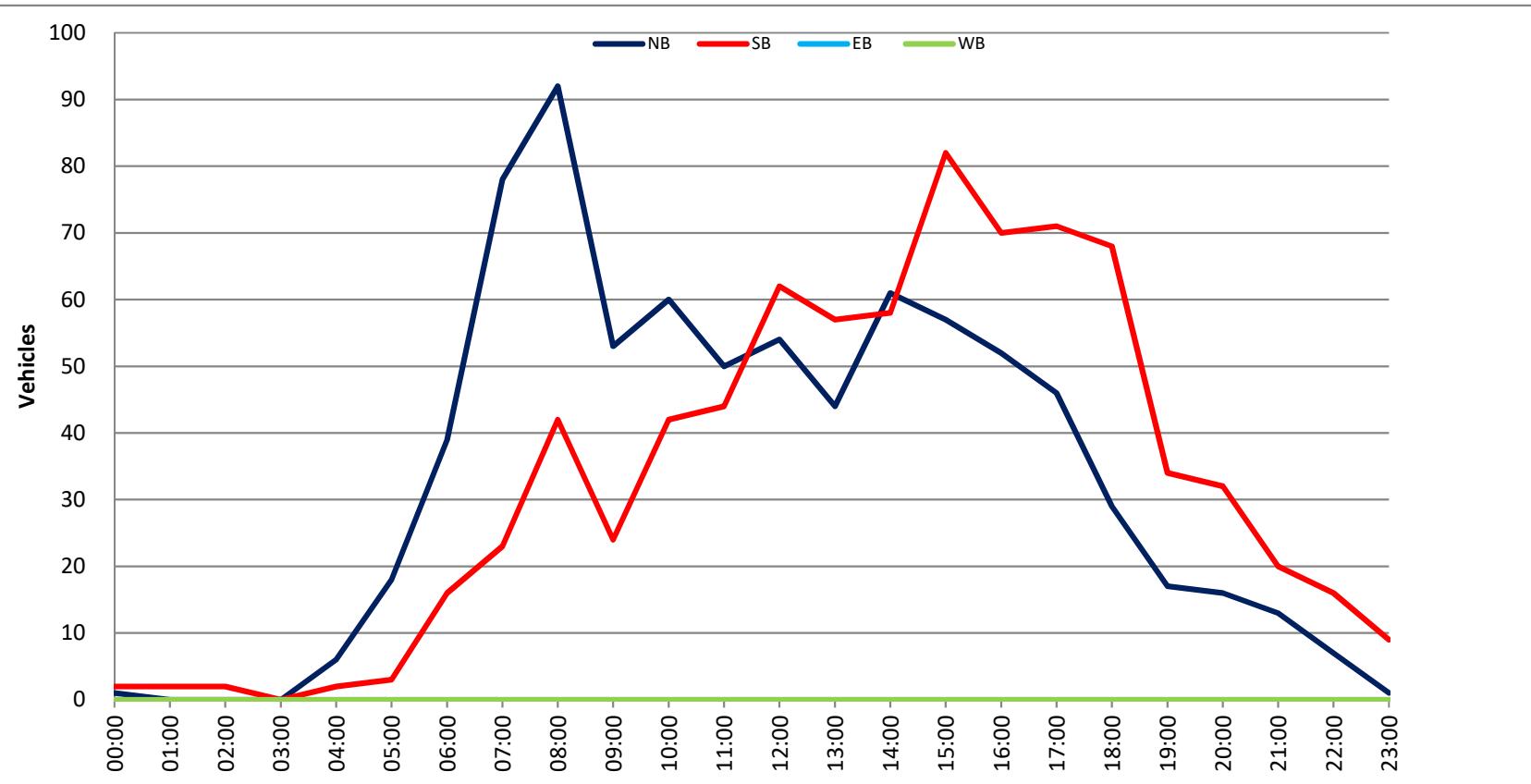
Prepared by NDS/ATD

Project #: CA19_4465_001

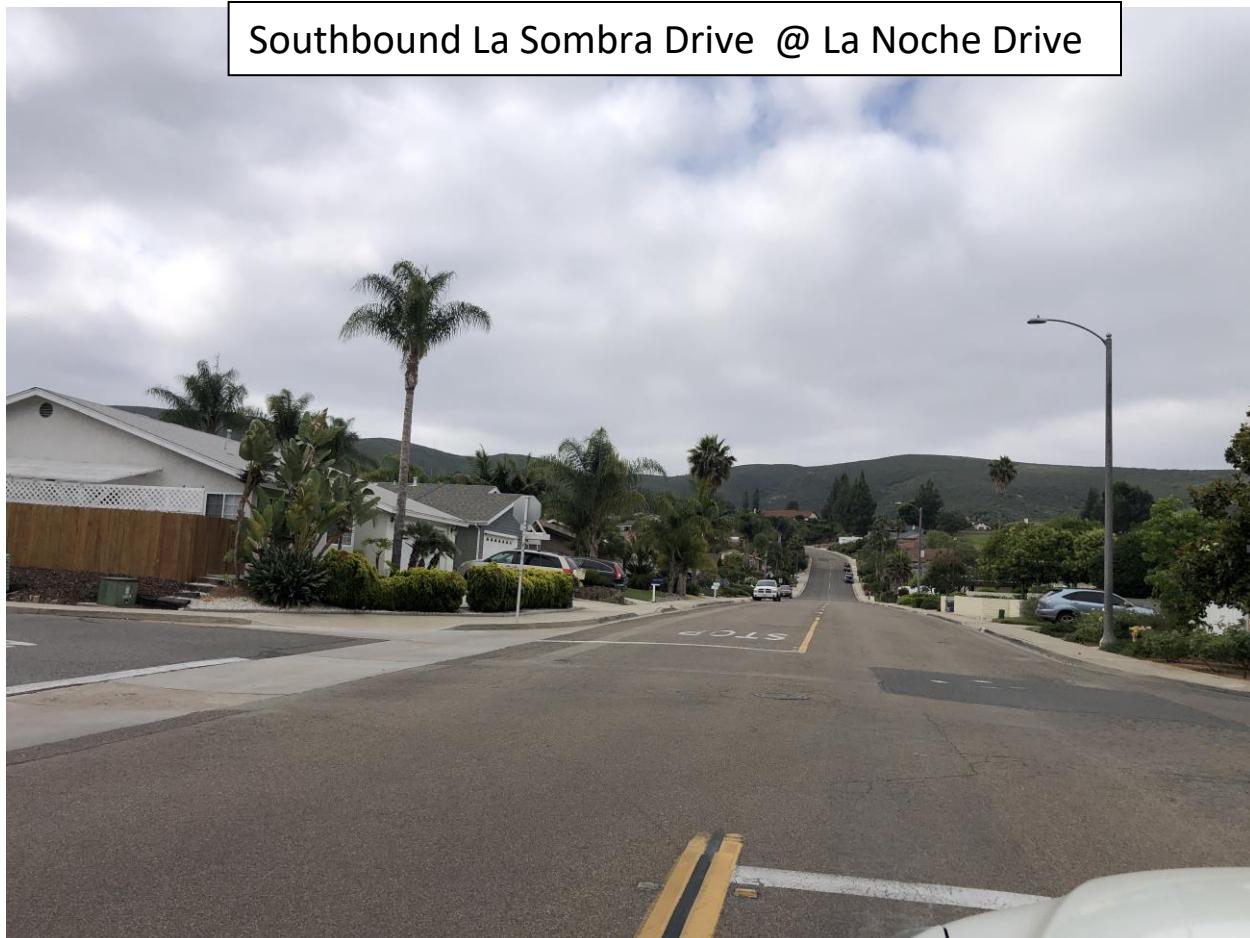
City: San Marcos

Location: La Sombra Dr Bet. 1034 La Sombra Dr &

Date: 12/10/2019



Southbound La Sombra Drive @ La Noche Drive



Southbound La Sombra Drive towards Quail Hill Drive



Northbound La Sombra Drive @ Jugador Court



Northbound La Sombra Drive @ Valencia Avenue



Northbound La Sombra Drive @ Baja Way



Northbound La Sombra Drive @ Quail Hill Drive



Northbound La Sombra Drive @La Noche Drive



Northbound La Sombra Drive towards Discovery Street





Looking northbound on La Sombra Drive from Quail Hill Drive intersection

No line of sight concerns



Looking southbound on La Sombra Drive from Quail Hill Drive intersection

Recommend tree/vegetation trimming or removal to improve line of sight around roadway curve