



CITY OF LAGUNA HILLS TRAFFIC COMMISSION

REGULAR MEETING AGENDA Wednesday, September 19, 2018 – 7:00 PM

Larry Woodruff - Chair

Greg Staar - Vice Chair

Mark Jones - Commissioner

Len Herman - Commissioner

David Wheeler - Commissioner

Location: City Council Chamber, 24035 El Toro Road, Laguna Hills, CA 92653

Any person wishing to address the Traffic Commission on any matter, whether or not it appears on this Agenda, is asked to complete a "Request to Speak" form available on the table at the back of the Chamber. The completed form is to be submitted to the Recording Secretary prior to an individual being heard by the Traffic Commission. Completion of the form is voluntary. All persons may attend the meeting regardless of whether this form is completed.

Members of the public wishing to address the Traffic Commission can do so during the Public Comments portion of the Agenda with a time limitation of three minutes per person, an overall time limit of ten minutes for any one subject, and a total time limit of thirty minutes for Public Comments. If you are commenting on an Agenda item, your comments will be heard at the time that item is scheduled on the Agenda. If you are addressing the Commission on an item not listed on the Agenda, the Traffic Commission is prohibited by law from discussing or taking any action on that item.

CALL TO ORDER

Resolution No. 96-04-09-1 established rules of decorum for public meetings held by the City of Laguna Hills. Resolution No. 96-04-09-1 is available on the table at the back of the City Council Chamber.

PLEDGE OF ALLEGIANCE

ROLL CALL OF COMMISSION MEMBERS

1. PUBLIC COMMENTS

This is the time to address the Traffic Commission on any matter not listed on this Agenda that is within the subject matter jurisdiction of the Commission. Public Comments are limited to three minutes per person, an overall time limit of ten minutes for any one subject, and a total time limit of thirty minutes.

2. MINUTES**2.1 Minutes**

Recommendation: That the Traffic Commission Approve the Minutes of July 18, 2018.

3. PRESENTATIONS**4. ADMINISTRATIVE REPORTS****4.1 Review of Traffic Speed Conditions on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive**

Recommendation: That the Traffic Commission Recommend to the City Council a Modification of the Parking Allowed on the Easterly Side of Santa Vittoria Drive to Restrict Parking for 60 Feet Northerly of Caminito Costa to Improve Sight Distance and to Increase Speed Enforcement as Resources Permit.

4.2 Review of Traffic Speed Conditions on Rapid Falls Road Between Hidden Trail Road and Lost Trail Drive

Recommendation: That the Traffic Commission Receive and File the Report.

5. INFORMATIONAL ITEMS**5.1 Sheriff's Department Verbal Report****5.2 Radar Speed Trailer**

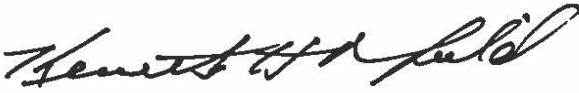
Recommendation: That the Traffic Commission Receive and File the Report.

5.3 November Traffic Commission Meeting**6. COMMISSIONER COMMENTS****7. ADJOURNMENT**

The next Regular Meeting of the Traffic Commission will be November 21, 2018, at 7:00 PM in the City Council Chamber, located at 24035 El Toro Road, Laguna Hills California.

CERTIFICATION

I, KENNETH H. ROSENFELD, Assistant City Manager/Director of Public Services of the City of Laguna Hills, do hereby certify that a copy of the foregoing Agenda was posted at Laguna Hills City Hall, Laguna Hills Community Center, and the Courtyard at La Paz Center by September 14, 2018, at 5:00 pm.



Assistant City Manager/Director of Public Services

September 14, 2018

Date

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, you should contact the office of the City Engineer at (714) 707-2650. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to assure access.

Materials related to an item on this Agenda submitted to the Commission after distribution of the Agenda packet are available for public inspection in the Public Services Department at 24035 El Toro Road, Laguna Hills, California, during normal business hours.



City of Laguna Hills

Traffic Commission

Staff Report

DATE: September 19, 2018
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Minutes

RECOMMENDATION: That the Traffic Commission Approve the Minutes of July 18, 2018.

ATTACHMENTS:

- Minutes

**CITY OF LAGUNA HILLS
TRAFFIC COMMISSION MEETING
REGULAR MEETING MINUTES
JULY 18, 2018**

CALL TO ORDER

The Regular Meeting of the Traffic Commission of the City of Laguna Hills, California, was called to order by Chair Woodruff at 7:00 PM in the Laguna Hills City Council Chamber, 24035 El Toro Road, Laguna Hills, California.

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Chair Jones.

ROLL CALL OF COMMISSION MEMBERS

Present: Chair Larry Woodruff, Vice Chair Greg Staar, Commissioner Len Herman, Commissioner Mark Jones and Commissioner David Wheeler.

1. PUBLIC COMMENTS

There were no Public Comments.

2. MINUTES

THE TRAFFIC COMMISSION APPROVED THE MINUTES OF THE MAY 16, 2018, REGULAR MEETING, BY M/VICE CHAIR STAAR, S/COMMISSIONER HERMAN. APPROVED BY A VOTE OF 5-0.

3. PRESENTATIONS

There were no Presentations.

4. ADMINISTRATIVE REPORTS

4.1 ADDITION OF TWO NO PARKING ZONES DUE TO SIGHT DISTANCE RESTRICTIONS ON THE WESTERLY SIDE OF SANTA VITTORIA DRIVE NORTHERLY OF RIDGE ROUTE DRIVE

Associate Civil Engineer Amber Shah, indicated Staff was contacted by residents of the Laguna Village Community regarding sight distance concerns at Camino Jalisco (south) and an adjacent driveway access to the private "Tennis Court Parking Lot" northerly of Ridge Route Drive and Lake Forest Drive. The residents met with Assistant City Manager/Public Services Director Kenneth Rosenfield regarding their concerns.

Based upon the current site conditions and resident's concerns, Staff recommends parking allowed on the westerly side of Santa Vittoria Drive be modified to restrict parking for 20 feet south of Camino Jalisco (south) and for 20 feet north of the Tennis

**CITY OF LAGUNA HILLS
TRAFFIC COMMISSION MEETING
REGULAR MEETING MINUTES
JULY 18, 2018**

Court Parking Lot driveway, north of Ridge Route Drive.

Efthemia Papadopoulos, Secretary of the Board of Laguna Village Owner's Association, requested signage for a school crossing on Santa Vittoria.

**THE TRAFFIC COMMISSION RECEIVED AND FILED THE REPORT, BY
M/COMMISSIONER HERMAN, S/VICE CHAIR STAAR.
APPROVED BY A VOTE OF 5-0**

4.2 REVIEW OF TRAFFIC CONDITIONS ON BRIDLEWOOD DRIVE AND DEVONSHIRE ROAD

Associate Civil Engineer Amber Shah, indicated Staff was contacted regarding concerns of vehicular speeding and traffic collisions on Bridlewood Drive, between Vista Viejo Road and Laurel Crest Drive, and on Devonshire Road, between Falling Leaf Drive and Nottingham Court. Staff initiated a review of the travel speeds, traffic volume and traffic collision history on Bridlewood Drive and Devonshire Road.

The Traffic Engineers of Hartzog and Crabill, Inc., (HCI) completed the traffic study. The speed survey determined the 85th percentile speeds on Bridlewood Drive and Devonshire Road as 37.1 mph and 32.9 mph respectively.

The 85th percentile speed of 37.1 mph on Bridlewood Drive is higher than expected and considered unacceptable for a residential street. The 85th percentile speed of 32.9 mph on Devonshire Road is within the reasonable range for a residential street.

Ms. Shah indicated police enforcement of driver behavior was the best and appropriate remedy, and she would provide the Moulton Ranch HOA with a traffic safety article for their next newsletter. Ms. Shah recommended a follow up traffic study in six months' time.

**THE TRAFFIC COMMISSION RECEIVED AND FILED THE REPORT, BY M/CHAIR
WOODRUFF, S/COMMISSIONER HERMAN.
APPROVED BY A VOTE OF 5-0.**

5. INFORMATIONAL ITEMS

5.1 SHERIFF'S DEPARTMENT VERBAL REPORT

Lieutenant Stiverson concurred with Staff's assessment and recommendations and indicated the Sheriff's Department would work with Staff to monitor and increase enforcement activities in the areas outlined.

**CITY OF LAGUNA HILLS
TRAFFIC COMMISSION MEETING
REGULAR MEETING MINUTES
JULY 18, 2018**

5.2 RADAR SPEED TRAILER

Staff submitted the schedule for the radar trailer. Commissioner Herman requested the trailer be stationed on Aliso Hills between Alameda Avenue and Alicia Parkway.

6. COMMISSIONER COMMENTS

Commissioner Herman requested Staff review the placement of a garage sale sign at the corner of Aliso Hills and La Paz.

Commissioner Wheeler thanked Lieutenant Stiverson and Associate Civil Engineer Shah for their assistance in answering his questions.

7. ADJOURNMENT

There being no further business before the Traffic Commission at this session, Chair Woodruff declared the meeting adjourned at 7:45 p.m.

Prepared By:

Amber Shah, P.E.
Associate Civil Engineer

Approved By:

Chair Larry Woodruff

Attachment: Minutes (1681 : Minutes)



City of Laguna Hills

Traffic Commission

Staff Report

DATE: September 19, 2018
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Review of Traffic Speed Conditions on Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

RECOMMENDATION: That the Traffic Commission Recommend to the City Council a Modification of the Parking Allowed on the Easterly Side of Santa Vittoria Drive to Restrict Parking for 60 Feet Northerly of Caminito Costa to Improve Sight Distance and to Increase Speed Enforcement as Resources Permit.

SUMMARY:

Staff was contacted by residents of Laguna Village Community regarding concerns of speeding, collisions and oversized vehicle parking on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. Please see the attached Vicinity Map. The residents met with Public Services Director, Kenneth Rosenfield, and submitted the attached package of resident statements and photographs. Based upon the resident's concerns and submitted statements from other residents, staff initiated a traffic engineering evaluation of Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive.

Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, is a two-lane collector roadway. On street parking is prohibited along limited portions of Santa Vittoria Drive, and the posted speed limit is 30 mph. The speed surveys, performed by Hartzog & Crabill, Inc., attached, determined the 85th percentile speeds on Santa Vittoria Drive as 40.6 mph near the northerly end towards Lake Forest Drive and 35.6 mph near

Review of Traffic Speed Conditions on Santa Vittoria Drive

September 19, 2018

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the southerly end towards Ridge Route Drive. While the posted speed limit is 30 mph, Staff's experience has found the typical prevailing speed range on a street of this character in the City to be in the 34 to 37 mph range, without adverse traffic collision history. The 85th percentile speed measurement at the northerly end towards Lake Forest Drive is higher than expected. The traffic count data revealed the 24-hr volumes to be low for a two-lane collector roadway.

A five-year traffic collision history review was also included in the study which determined twelve (12) traffic collisions had been reported along this segment of Santa Vittoria Drive (when removing from consideration, all traffic collisions listed as being on Lake Forest Drive at Santa Vittoria Drive). Only one collision was identified as 'speed-related'. Consequently, no change to traffic controls is proposed but speed enforcement is recommended to address the higher than expected 85th percentile speed at the northerly end of this street segment. As available, police enforcement of driver behavior will be pursued as the best remedy for this location and issue of concern. Staff will work with the Sheriff's Department on enforcement activity in this area and we will also post the radar trailer in this area to increase driver education as to the appropriate speed on Santa Vittoria Drive.

Recently, staff was contacted by another resident of the Laguna Village Community regarding sight distance limitations on the easterly side of Santa Vittoria Drive immediately adjacent to Caminito Costa, a private street. Staff reviewed the resident's concern, and upon performing a site evaluation, determined that restricting parking in this location will improve sight distance for exiting vehicles. It is recommended that a no parking regulation be established for 60 feet north of Caminito Costa as identified on the attached vicinity map. This no parking area will provide appropriate sight distance for vehicles given the geometric layout and design of Santa Vittoria Drive.

It is noted that a traffic evaluation was previously performed on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, in December 2016, and was presented at the March 15, 2017 meeting of the Traffic Commission. The traffic data at that time showed the prevailing traffic speeds to be consistent with the posted speed limit. Traffic volumes were also consistent with historic counts, and well below the traffic carrying capacity of the roadway. The report is also attached for reference. However, given the current speed survey results, staff will return to this location in approximately six months and perform follow-up speed surveys to confirm the effectiveness of speed mitigations being implemented.

Review of Traffic Speed Conditions on Santa Vittoria Drive
September 19, 2018
Page 3

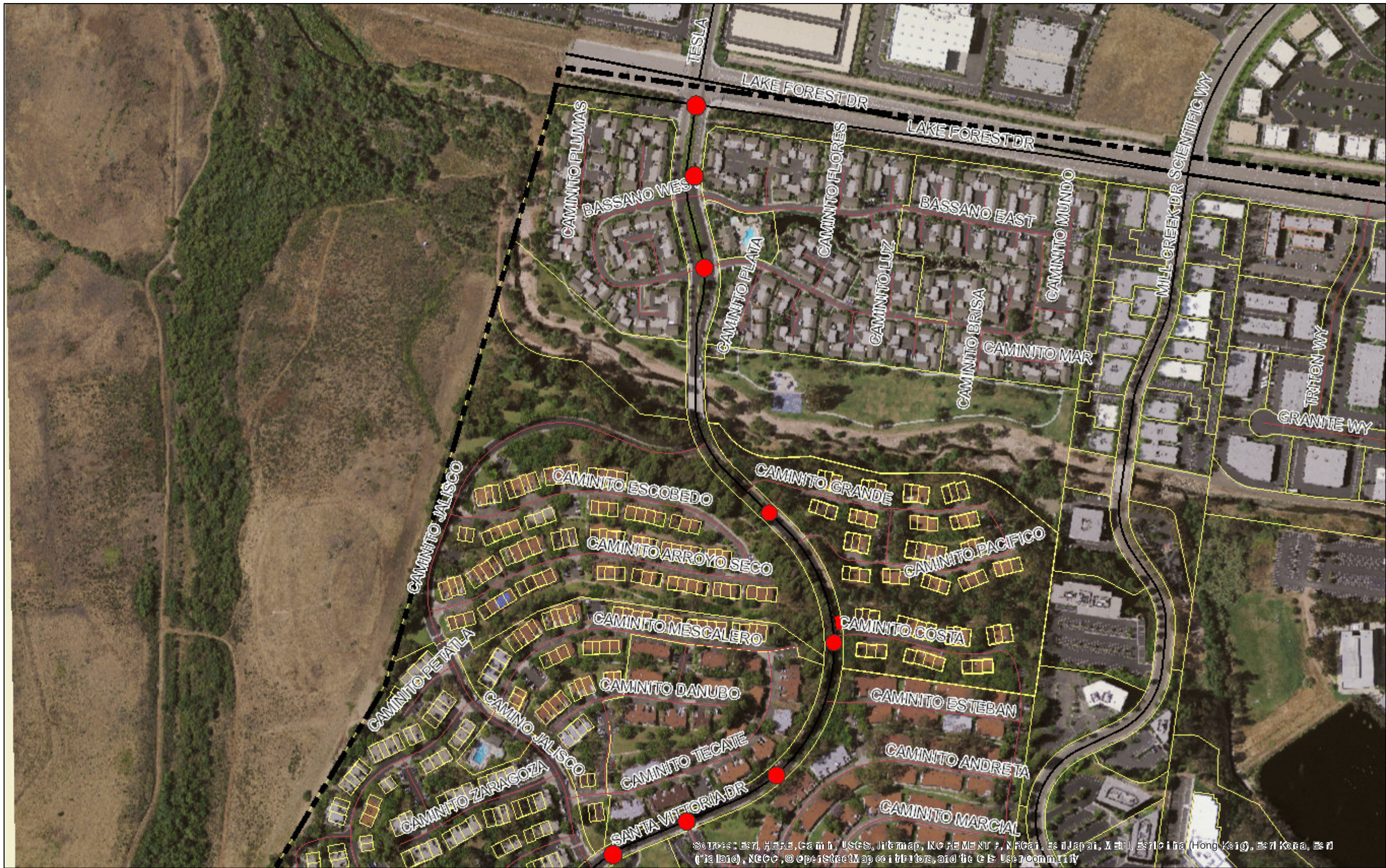
The resident concern regarding oversized vehicle parking along Santa Vittoria Drive was referred to the Sheriff's Department for enforcement of provisions of the Laguna Hills Municipal Code.

FISCAL IMPACT:

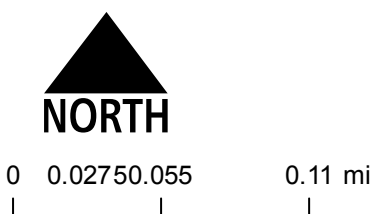
The installation of one "No Parking Here to Corner" sign has an anticipated cost of \$100. Funds are available for this work in the 2018-2019 Fiscal Year Public Works Maintenance Budget.

ATTACHMENTS:

- Vicinity Map 1 - Santa Vittoria Drive
- Vicinity Map 2 - Santa Vittoria Drive
- Laguna Village Resident Statements and Photographs
- Santa Vittoria Drive Traffic Evaluation
- Traffic Commission Agenda Item 4.1 March 15 2017

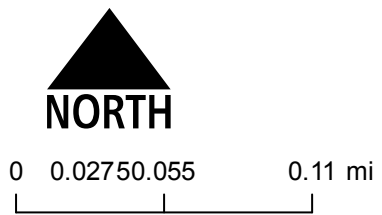


VICINITY MAP 1 - SANTA VITTORIA DRIVE





Attachment: Vicinity Map 2 - Santa Vittoria Drive (1680 : Review of Traffic Speed Conditions on Santa Vittoria Drive)



VICINITY MAP 2 - SANTA VITTORIA DRIVE



11/16/16

To: The City of Laguna Hills Traffic Commission

From: Laguna Village Concerned Residents

Attached please find the following:

- Resident Statements
- Pictures of Traffic
- Pictures of Most Recent Destruction Due to Reckless Driver
- Map of Speed Limits

Additionally, please view this link:

<https://www.youtube.com/watch?v=4uTrllgh...>

Prepared by Shawn Kirch – Laguna Village Homeowner

5 minutes of footage condensed to 90 seconds, after peak traffic showing 30+ cars that did not stop at the stop sign including to yield for a school bus trying to make a turn.

Researched, Prepared and Presented by Laguna Village Homeowners:

Patti Casas

Susan Christenson

V. Dunkelberg
Caminito Basilio
Laguna Hills, CA
92653

April 30, 2018

Dear Traffic Commission Officials,

Thank you for the work you do to keep our city safe, as well as for allowing me this opportunity to present my concerns to you.

Since my wife and I purchased our current home here in Laguna Village in 2015, it has become increasingly dangerous to drive and walk along Santa Vittoria, a two-lane street that intersects the center of our community. Specifically, drivers (many of whom do not live in our community and are cutting through) speed down the street, regardless of the blind turn on the street, the myriad vehicles that are always parked along the roadsides, and the fact that the (clearly posted) speed limit is thirty miles per hour. Multiple times, speeders have tailgated us, honked at us, and flashed their lights at us for driving the speed limit; we have even witnessed various speeders fully swerving into the opposite lane (despite the blind turn) to pass drivers going the speed limit. At all times of the day, driver after driver fails to heed the stop sign at the corner of Santa Vittoria and Ridge Route. Neighbors attempting to cross Santa Vittoria with their small children and dogs have been reporting incidences of drivers veering around them, rather than waiting for them to safely reach the other side of the street; (a great concern is the safety of the older children who use Santa Vittoria to cross between both sections of the community to play with friends). Neighbors have witnessed drivers disregarding the school bus stop sign when the bus stops at Santa Vittoria and Ridge Route (recently, one driver sped around another driver who had stopped for the bus and the children who were already exiting the bus). Just last week, there was yet another serious collision at the corner of Santa Vittoria and Ridge Route; both cars were totaled and I am unaware of what became of those involved.

After members of our community presented these same types of concerns to the traffic commission about a year or so ago, there was a temporary increase in ongoing police presence along Santa Vittoria and at the corner of Santa Vittoria and Ridge Route. This made a huge difference and we very much appreciated it. Unfortunately, however, once the police left, the same problems returned. We and many of our neighbors fear that these problems will worsen as more people flood the area upon completion of the new surrounding developments.

We therefore urge you to take action on this issue as soon as possible, effecting a permanent solution that will keep our residents and passers through safe. Thank you again for your time.

Sincerely,

V. Dunkelberg

5/30/2018

Dear Laguna Hills Traffic Commission,

This letter intends to bring to your kind attention the unimaginable harassment commuters, walkers, joggers, bicycle riders and the entire Laguna Village community face on Santa Victoria and surrounding areas due to the growing instances of traffic. We know that the number of vehicles on the roads is on the rise and that there is no proportional increase in the number of roads or law enforcement to abide by the speeds posted. So, traffic accidents and traffic jams are bound to happen and are consistently happening. But I do not intend to disturb you with things that do not have an immediate solution.

It stretches one's tolerance to the ultimate limit when a difficult situation is aggravated due to the irresponsible behavior of many rogue drivers. The cars on this now very busy street show an appalling disregard to any kind of traffic law. Cars stopping here and there, coming and going illegal passing (crossing the line), not stopping at every corner, drivers getting into an ugly argument in the middle of the road, and many accidents some reported, some not reported etc., cause havoc for the daily commuter and neighborhood walker.

Drivers appear to be presumably above the law for no police officer seems to have the courage of taking them to task as there is no police presence in the area. We have had multiple accidents on Santa Victoria / Ridge Route and Santa Victoria / Lake Forest and everywhere in-between. We walk dogs several times a day on Santa Victoria and notice everything from extreme speeders, many people running stop signs, to people crashing into parked cars, to crashing into each other which usually results with a car in a crosswalk and or a sidewalk where people walk daily. Don't get me started on how many people turn right in front of us as we are walking in the crosswalks and or turn right behind us. If we stalled for a second we would most likely be hit by a car.

I sat on the corner of Santa Victoria and Ridge Route for an hour on 5/20/2018 and witnessed 13 cars run the stop sign and it is only a 3 way stop. As well as numerous speeders who barely stopped due to excessive speed.

It seems that the concerned committee responds to the call of duty in our area only when concerned residents raise a red flag sadly the attention we get it is short lived. I have not seen an officer outside of assisting an accident in over 6 months on our roads. I hope you do not construe my helplessness as rudeness.

5/30/2018

We have faith in the Police Department and fully understand that they are dedicated who are working day and night to ensure our safety in every sphere. With all due respect to them, I believe that the Police Department needs to pull up its socks to combat the menace of nuisance drivers who aggravate the problem of traffic in our city. I hope it does not take a family with kids and dogs to be killed in order to get your attention to this dangerous situation.

Thanking you in anticipation of change before it is too late for some of us.

Yours sincerely,

Michelle Cammaressi and Family.

11/16/16

Traffic Commission,

It is quite obvious to those of us who reside in Laguna Village that people have discovered a cut through from Lake Forest Drive to Ridge Route and Santa Maria via Santa Vitoria since Lake Forest drive opened to/from the 133.

The traffic has probably tripled or quadrupled!

As vehicles speed through this two lane cut through, it is becoming more and more dangerous for those of us who must use Santa Vittoria to get to and from our homes.

What to do?

Most Sincerely,
Barbara Forman
Laguna Village Homeowner

Dear City of Laguna Hills Traffic Commissioner,

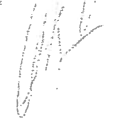
I and my family are the new residents in Laguna Village. Our home is located on Caminito Vino very near and facing Santa Vittoria. We are concerned about the number of drivers speeding along Santa Vittoria, disregarding stop signs and speed limits. I ask that we have regular police patrol of our neighborhood to help curtail this illegal behavior and also reduce the maximum speed limit. Also there are many others effective solutions for traffic calming as the speed bumps etc.

Thank you,

Alex Chernavsky

Alina Chernavsky

22172 Caminito Vino
Laguna Hills, 92653

 11/15/2016
 11/15/2016

Judy Denton

Caminito Tasquillo

11/14/16

I am a long-time resident and am concerned about traffic and accidents in our community.

The night the light post was knocked down, I heard a car spinning out of control and then crash after completing multiple donuts at the three way stop at Santa Vittoria and Ridge Route.

In the last year, I do not have dates but have heard at least 3 other times cars skidding in circles at the same area. One time it happened right in front of me when a friend and I were walking our dogs and had stopped at the corner of Ridge Route and Santa Vittoria. We were fearful that he would lose control and hit us.

November 14, 2016

Erik Dunkelberg
Caminito Basilio

To Whom it May Concern:

I am a Laguna Village resident living on Caminito Basilio, near Santa Vittoria (a street that cuts through the center of our quiet village community). I have concerns about the way people have been driving down Santa Vittoria. Many don't stop at the stop sign (at Ridge Route and Santa Vittoria) and many speed down Santa Vittoria---even around the blind turns and sometimes almost hitting parked cars and pedestrians.

Given the number of cars that routinely park along Santa Vittoria, and the number of people who frequently walk along Santa Vittoria's sidewalks (sometimes with children and pets), the fact that non-residents use the street as a by-pass, speed, and disregard stop signs represents a dangerous situation. As a concerned resident, I ask you to please look into making Santa Vittoria a safer street to drive on and walk alongside.

Thank you for your time,

Erik Dunkelberg

11/14/16

To Whom It May Concern:

I am writing in regards to the increased traffic on Santa Vittoria. Since Lake Forest has opened, I have seen and experienced, more and more cars traveling through at high rates of speed. I could once cross the street, barely having to wait for cars, to now I have waited five or so minutes to cross. They also can travel at high rates of speed, I know faster than our 30 mile an hour speed limit. Also, should you be in the process of crossing and a car comes, very rarely do they slow down. I can only imagine what it will be like when the 1,900 or so units go up at the old Verizon area. Is there anything that can be done to at least slow the cars down? Perhaps one of those pedestrian light up signs? An extra stop sign? All I know is the congestion has gotten much worse in the 19 years I have lived in Laguna Village.

Thank You,

Ina F.L. Aparicio

949-697-3714 (should you need to contact)

22245 Cam. Mescalero
Laguna Hills, 92653

Elizabeth Coombs
22312 Caminito Tecate
Laguna Hills, CA 92653
(949) 916-2837
BethCoombs@Gmail.com

City of Laguna Hills
Traffic Commissioner

November 13, 2016

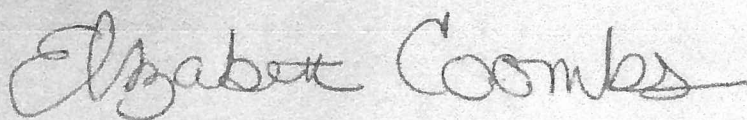
To whom it may concern,

While driving home yesterday on Santa Vittoria I was considering the points I wanted to make in this letter and suddenly I passed by a motorcycle because apparently following the speed limit is unacceptable. The motorcycle swerved into the opposing traffic lane to pass me. This is a common event on this street.

I purchased my condo in 2002, since then I have seen the traffic on Santa Vittoria triple especially since the extension of Lake Forest to the 133. Santa Vittoria has become a shortcut used by many to bypass traffic lights. I can no longer sleep with my windows open and have heard/witnessed numerous accidents as a result of the speed that cars drive in this area. Speeding is a common recreational exercise here. Accidents are also common. Examples would be the overturned car on Ridge Route due to a U-turn at a high rate of speed and the woman who crashed into a tree on Santa Vittoria, both of these in the last year alone. Years ago we had police officers occasionally stationed to ticket speeders. They have not been here in a long time.

With the impending building of more homes or apartments in Irvine Meadows I'm extremely concerned that there will be more traffic, more accidents, and more danger to drivers and pedestrians. I realize we cannot stop progress however I urge you to consider crosswalks, traffic lights and speed bumps in this area. Numerous cars drive up and down *this winding residential neighborhood* at excessive speeds. My mother and my blind father who also live here on Caminito Tasquillo are no longer able to walk in the community. There are many children in this area that are in danger of crossing Santa Vittoria because of the traffic also. Please consider implementing safeguards before we have a tragedy.

Thank you.



Elizabeth Coombs
22312 Caminito Tecate

Dear City of Laguna Hills Traffic Commissioner,

I prefer offering solutions rather than exclaiming complaints.

Re: Santa Vittoria traffic safety

Can we please put speed bumps?

Can we please have police issue more speeding tickets?

Can we please add crosswalks?

Sincerely,

Efthemia Papadopoulos
23452 Caminito Juanico
Laguna Hills, CA 92653
(949) 466-4193

November 16, 2016

Nicole Budicin-Tiano
22224 Caminito Mescalero
Laguna Hills, CA 92653
nbudicintiano@gmail.com

ATT: Laguna Hills Traffic Commission

Re: Increased traffic, collisions, crime and drop in safety for Laguna Village Owners Association

To whom that it concerns:

Since moving into the community of Laguna Village in 2013 we have noticed an increased amount of traffic in the past 2 years (2014-present). The speed at which vehicles travel at as they go up and down Santa Vittoria (both East and West bound) are horrifying. I have almost been hit head on by a distracted driver on her phone/texting, driving WAY over the speed limit and crossed into my lane. Had there not been an open spot for me to swerve into we would've hit head on. The scariest thing about that incident is that there are most often cars parked along Santa Vittoria. Had that been the case that day we would have had the collision. In addition to gross speeds, distracted drivers, and near collisions I have experienced on Santa Vittoria, I have also been witness to drivers who do NOT stop at the stop sign(s) at Ridge Route and Santa Vittoria. When we take our toddler for walks in the stroller we never cross the street at Santa Vittoria unless there are zero cars in sight. I have witnessed not only mothers/grandmothers crossing this intersection with strollers and children, but regular pedestrians crossing here and watching cars just drive right on through their cross walk as if they're not crossing the street.

It is my personal opinion that we have seen a gross amount of traffic through our neighborhoods due to the booming construction in Irvine right around the corner at the 133 and Lake Forest, as well as Los Olivos area located at the 405 and Irvine Center Drive. When we moved here Hidden Canyon was not developed, Los Olivos was still in its finishing phases and the shopping center with Whole Foods was still empty land. Since the development of said areas the traffic has skyrocketed and safety has plummeted.

I would hate to see several speed bumps go in down Santa Vittoria. However, if there were increased patrol sitting at the stop sign at RR & SV as well as Caminito Jalisco & SV I am willing to wager that the through traffic would drop dramatically and safety among drivers and pedestrians would rise once again.

Thank you,
Nicole Budicin-Tiano

From Thomas Chancellor
Laguna Village Homeowner
Caminito Mescalero

11/12/16

The one thing I personally notice is the City's unwillingness to address vehicles parked on No Parking Fridays 8-12. Ken was the one I worked with to implement the policy and it has been somewhat effective. It doesn't help that there are no Parking Enforcement staff on Fridays AM, and not enough Officers at that time as well, so it gets overlooked on a regular basis.

That would be one complaint, along with the unwillingness to cite over-sized vehicles that constantly park on Vittoria. 90" wide x 90" tall is what is posted, yet I frequently see vehicles/trucks/trailers that are well past these dimensions. The size restrictions are there for a reason, it is much harder to see and navigate around larger vehicles. It is a safety hazard.

11/14/16

Jazmyn Channel

Caminito Escobedo

I cannot make it to the meeting. I hope this helps you. A few months ago, I was making a left onto Ridge Route. An elderly lady, who was talking on her phone, blew through the stop sign. If it were not for my anti-collision system, breaking for me, I would have T-Boned her. I did notice she had Laguna Wood's parking tags. I have been flipped off and cussed out by "short cutters" who were tail gating me, because I do the speed limit, and point to the 30 MPH. I was waiting for some people in the cross walk, when the car behind me started honking at me. I pointed at the people in the cross walk, the man almost hit my car, went around me, and turned left onto RR, almost hitting the people crossing the streets dog.

I cannot tell you how many times I have seen people ignore the school bus at RR & SV, when the stop sign is out, and the lights are flashing. I would also like to bring up the driving schools who teach their students how to drive, in our neighborhood. I have had some issues with them also.

November 13, 2016

Dear Traffic Commissioner,

I am writing to express my concerns about the increased amount of traffic and lack of police presence and enforcement in Laguna Village, a community of 914 condo units in Laguna Hills. To follow are just a few of my observations:

Driving up Santa Vittoria from Lake Forest Drive, you will come upon blind curves. Oftentimes there are oversized vehicles parked along Santa Vittoria near these blind curves, making this particularly dangerous at night with oncoming traffic. Some oversized vehicles even place plyons next to their vehicles.

Vehicles are parked along Santa Vittoria on Friday mornings, completely disregarding our street sweeping. There is no patrol citing these vehicles.

I live very near the corner of Ridge Route and Santa Vittoria. This is an intersection crossed by many children attending San Joaquin Elementary School, yet many cars do not come to a full stop at this intersection. Some do not stop at all. We have experienced more racing, speeding and accidents along Santa Vittoria.

What is it going to take for the City of Laguna Hills to do something about this? A child getting injured or killed perhaps? Police presence and citations would deter these illegal actions as well as create revenue for the City of Laguna Hills.

Please protect our community.

Thank you,



Jonnie Demmer
22205 Caminito Vino
Laguna Hills, CA 92653

To Whom it may Concern:

I have been a home owner in Laguna Village for almost Ten Years now. When the Lake Forrest/133 access road opened up there has been a dramatic increase in the following problems:

- 1) Racers—almost every weekend they can be heard racing up and down on Santa Vittoria all night long. It is dangerous and disturbing to all of the residents. The racers love to race through the four way stop and then do a series of high speed donuts. If anyone would care to patrol the area, you can see the circles still etched in the street. On Halloween night this year, several of us were awoken in the area by a racer who was tearing around our complex at 2:30 am. He did end up wrecking into a bus sign and knocking it over.
- 2) Now that our complex is the “short cut” to Lake Forrest and freeways, we have far too much traffic during the traditional rush hours. A large amount of people are running the Ridge Route/Santa Vittoria four way stop, some slowdown. some race right through. We have dog walkers, small children, school buses picking up children on Santa Vittoria, it is a matter of time before someone is seriously injured. I myself had to literally dodge being hit in that intersection IN THE CROSSWALK by a car who did not even slow down for the stop.
- 3) The curve down by Veeh Ranch Park has become increasingly dangerous since the opening of Lake Forrest Road. Drivers are not following the speed limit down that hill. Close to the bottom, as you turn there is a blind corner. Drivers are hitting that curve at a high speed (posted is 25 mph). The reason this is an accident waiting to happen is, cars are parking on the side of the street and exiting their cars to access the park. The utility trucks there all the time to service the El Toro Water Treatment center there are also parking and exiting their vehicles. There needs to be a Police patrol there immediately handing out speeding tickets. People are rushing to work, using Santa Vittoria as their shortcut to the freeways with little regard to the 25 MPH speed limit.

I would like to know why we have no Police presence in this area even though many of us in this area have complained to both Irvine and Laguna Hills police departments. We used to see motorcycle patrols frequently handing out tickets at the Ridge Route/Santa Vittoria intersection. This really helped as the word gets out about Police presence in the area. We have been left to fend for ourselves and dodge the racers for at least two years now. As I pay my property tax in the amount of \$ 485.00 per month, I am beyond angry!!! What is it going to take to get some support for this area???

Thank you for your time, Susan Pinski

Susan Pinski

Accounting Manager



P O Box 15128

Santa Ana, Ca 92735

714-835-4612 714-835-2186 (fax)

spinski@radoscompanies.com

November 16, 2016

Dear City of Laguna Hills Traffic Commission:

For over 25 years I have been a homeowner on Caminito Tecate in Laguna Hills, in the community of Laguna Village. My home overlooks Santa Vittoria, a street which divides two sections of this formerly safe and quiet residential community. Ever since Lake Forest Drive connected to Route 133, many commuters outside this residence have been using Santa Vittoria to/from Ridge Route to bypass signals. Not only has it significantly increased traffic, it has come with a callous disregard for speed and traffic laws, other drivers and pedestrians. Drivers come flying around blind corners making it very dangerous to even walk my dog across the street.

This year I've observed two accidents below my property as well as the destruction left by three more. Prior to the Lake Forest & 133 merge, I can remember only seeing two other accidents below my property in my 25 years here, one was a young man driving very early in the morning, hitting a car parked along Santa Vittoria, just beyond a blind curve.

Recently, I know a light post was "taken out" by a car near our clubhouse. Someone else ran into the fence at Ridge Route near Santa Vittoria, supposedly to avoid hitting a coyote, but going so fast she overturned her car and almost took out one of our beautiful jacaranda trees. A man sped along Santa Vittoria and hit two cars throwing them onto the sidewalk then backed up damaging five additional cars. My husband and I hear racing by very loud vehicles very late at night and can no longer leave our bedroom window open while sleeping, which is the least of our concerns, yet was never an issue.

I took a video at a random time: Thursday at 11:45 am. I counted 8 cars in one minute, which would have been unheard of just a couple of years ago. If we had some police presence I am sure we could deter the illegal activity while collecting revenue that I surmise would more than pay for the patrol we need in our community. This area could keep a patrolman citing non-stop.

Thank you for your sincere consideration.

Susan Christenson

22316 Caminito Tecate

Laguna Hills, CA 92653

Patti Casas

22252 Caminito Tasquillo

(949) 380-1076

11/13/16

When I purchased my condo nearly 21 years ago, it was a beautiful and quiet little piece of Laguna Hills quite unlike any other condo community in Orange County. It is still a great community but a lot has changed in the last few years with the opening of Tesla to Santa Vittoria as well as Lake Forest to the 133 we have seen the following:

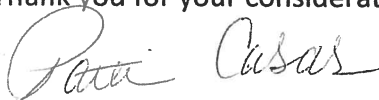
- Exponentially increased traffic with Santa Vittoria serving as a pass through
- Higher Crime and vandalism
- Loss of the ability to safely cross the street in the cross walk
- Speeders, racers and drivers who simply will not stop at the stop sign
- Loud cars who like to turn donuts late at night at Ridge Route and Vittoria
- Several accidents resulting to damage to our landscaping, fencing and cars parked on the street
- Oversized vehicles parking and obstructing driver's views on Santa Vittoria
- Trash and empty alcohol bottles (or their broken glass) flung from cars as they pass through our community, usually late at night
- Drivers honking, flashing lights, and gesturing at you as you drive the speed limit and turn onto your street to get home
- Up until a month ago (when the bus route through here stopped) we had people using our private parking lots for "Park and Ride"

Why are people doing these things? Because they can, NO ONE is stopping them. We used to have regular motorcycle officers in our community ticketing speeders and non-stoppers and I believe this really helped. They have not been here on a regular basis for a couple of years. I ask you, why not? We feel like we are the community that the City of Laguna Hills forgot ~

We want you to know that we need your help. Things are going to get worse with the development of approximately 2,000 new apartments at the Irvine Meadows site in the near future.

How about some better signage, flashing lights, speed bumps and more frequent law enforcement visits. And, possibly asking the City of Irvine to put speed limit signs on Tesla (there are none at present) with a lower speed so that drivers speeding on Tesla just might not continue at their high speed when crossing onto Santa Vittoria.

Thank you for your consideration,



13Nov2016

To whom it may concern,

Greetings, I'm Mike Chambers. I have owned a home in Laguna Village since 2009. One of the primary reasons I moved to this particular location was because of the quiet, beautiful, peaceful, almost pollution-free surroundings—I live next to the newly labeled “Preservation Area”. When I moved here the map identified this area as a “Wilderness Area”. Since the recent developments it has now been changed its new name. And to my dismay, over the last few years, it can barely be called a “Preservation Area”, according to my definition. However, it is still an actual wildlife/ecological habitat and reserve runoff area for the San Diego Creek—although deteriorating rapidly due to the new developments.

I understand that things must change for progress to transpire. However, what type of progress are we searching for and allowing? Since I've lived here I have observed the development of Laguna Altura (597 homes). Which is a very nice community on the other side of the hill. The following year, we in this area were exposed to the destruction of a popular family entertainment area—the “Wild Rivers” water park. This was to allow the development of 1,750 Apartment Homes called “Los Olivos Phase I”.

In 2013 I received a notice from the city of Irvine that my property was within 500 feet of the proposed development area. This new development was to be called “Hidden Canyon”, and was supposed to be 160 homes. I attended all the city meetings and wrote letters of response when they wanted to increase the density from 160 homes to 258. They passed their density increase and gave little concession, even though I advised them, with their own past research, that it would be contradicting some of their own rules and requirements on noise and pollution.

Prior to the start of the Hidden Canyon project they extended Lake Forest Drive to connect with Laguna Canyon Road to accommodate the new development. Since then this entire area has been slowly disintegrating: More traffic; more noise; more pollution; more dust; more crime; less wildlife; less ecological growth; less safety; less peace; less beauty, etc.

Now we are facing another huge development (the largest in Orange County) as the Irvine Company plans to add another 1,950 Apartment Homes. This will be after demolishing the voted: “2015's Best Venue in Orange County”—the Verizon/Irvine Amphitheater. The proximity of this new large development will exponentially add even more traffic; more noise; more pollution; more dust; more crime; less wildlife; less ecological growth; less safety; less peace; less beauty, etc.

Please help us figure out a solution to this ongoing problem within the Laguna Village Community and its surroundings!

Sincerely,
Michael Chambers
Caminito Escobedo,
Laguna Hills, CA
PowerChek@aol.com

11/16/16

To Whom It May Concern,

After moving here a little over 2 years ago, I have experienced many close calls and traffic violations along Santa Vittoria. Among these have been consistent "California Stops" through the intersection at Santa Vittoria and Ridge Route. This is not only consistent with the video that Susan has presented to the Council, but happens when there are also pedestrians crossing or about to cross and also when there is another car at the intersection which would otherwise impede the path of the violating vehicle.

Also of concern is the traffic coming from and to Lake Forest. Due to the nature of the street there are many cars that consistently exceed the speed limit while going down a hill with a steep curve as well. This is a dangerous path with the amount of traffic coming from and going through the area since there is a park with many parents and kids getting in and out of cars along with families crossing the street to walk back home while also avoiding the traffic coming down a blind curve. I consistently walk with my young sons along these paths and would like to see if there is a solution that can be obtained in order to increase safety while also reducing unnecessary accidents along these two areas of Santa Vittoria.

Thank you for your time. Best Regards,

Shawn Kirch
Caminito Marcial Resident

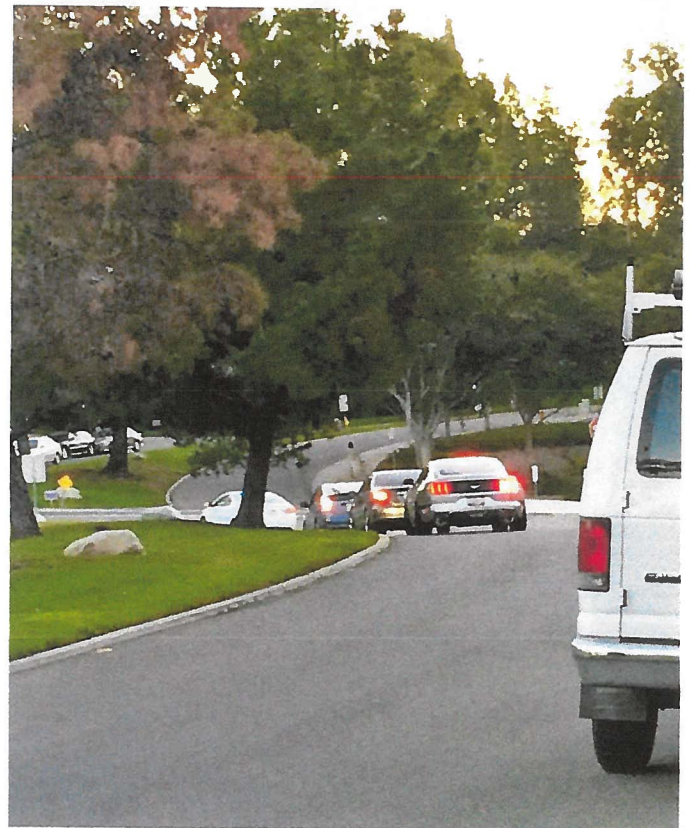
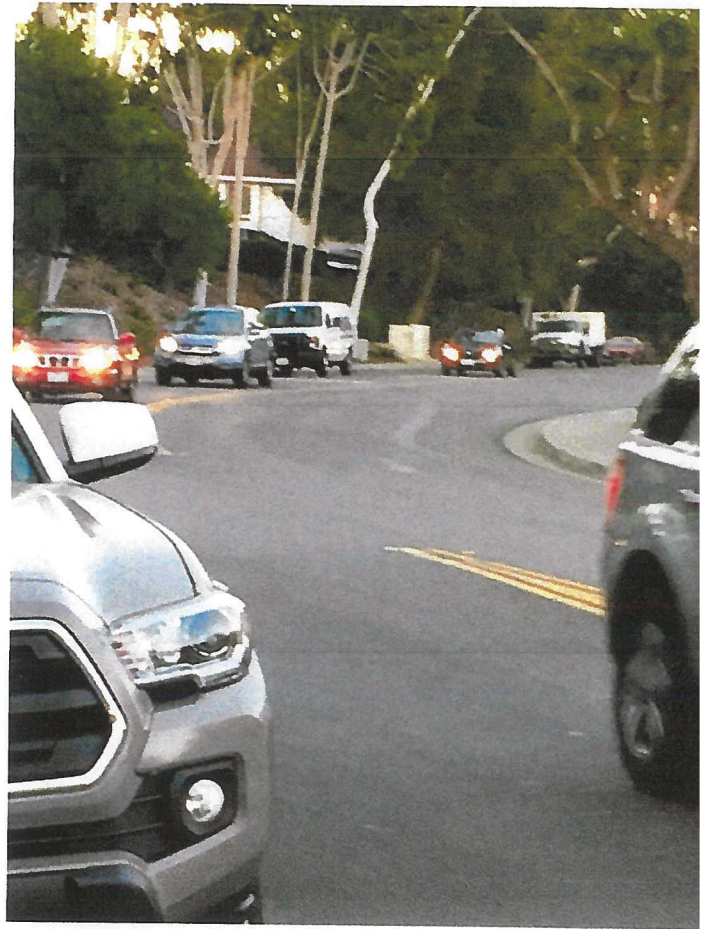
11/14/16

4:30 pm

Santa Vittoria @ Jalisco So.

Cars heading to Ridge Route or
Santa Maria

(Prior to start of 5:00pm+ busier
Traffic)



Attachment: Laguna Village Resident Statements and Photographs (1680 : Review of Traffic Speed Conditions on Santa Vittoria Drive)

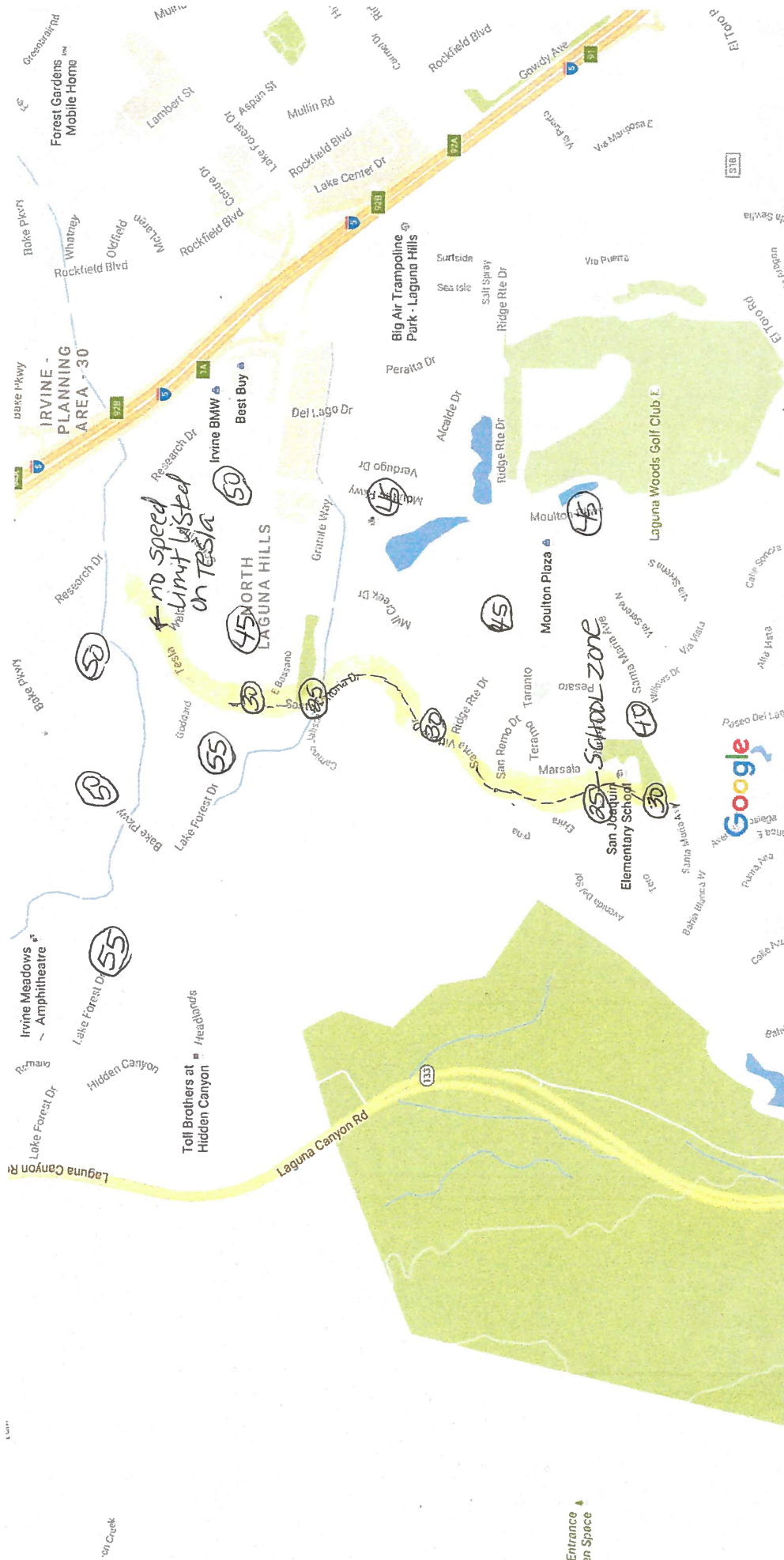
11/1/16

Most current damage to our community caused by a reckless driver on Santa Vittoria Drive, very late Halloween night. His car spun out of control after doing several high speed donuts at the intersection of Ridge Route and Santa Vittoria hitting the concrete lamp post and knocking it down.



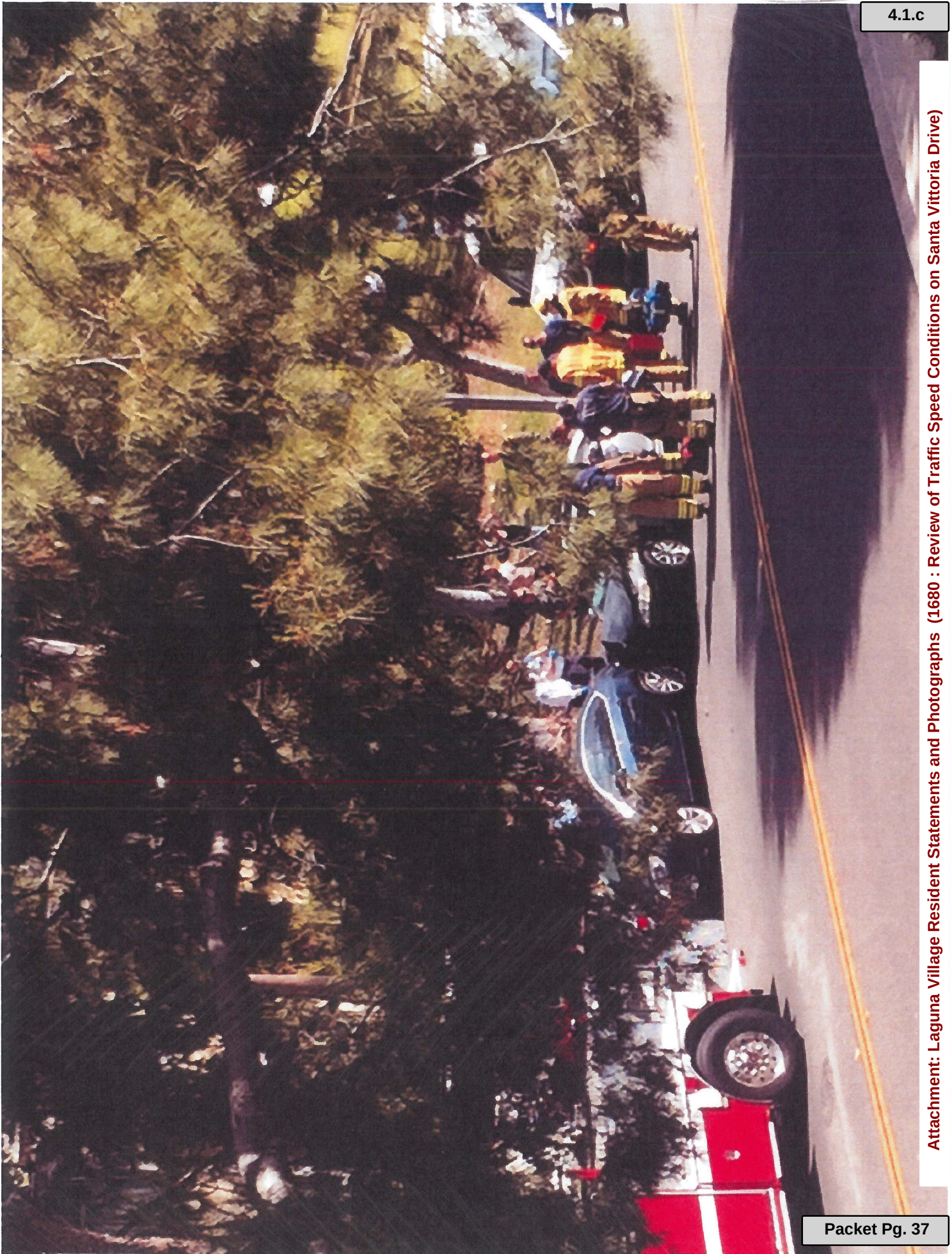
How it looks today – a tub with “High Voltage” written on it covering several exposed wires, very near water that runs from irrigation lines – not safe!



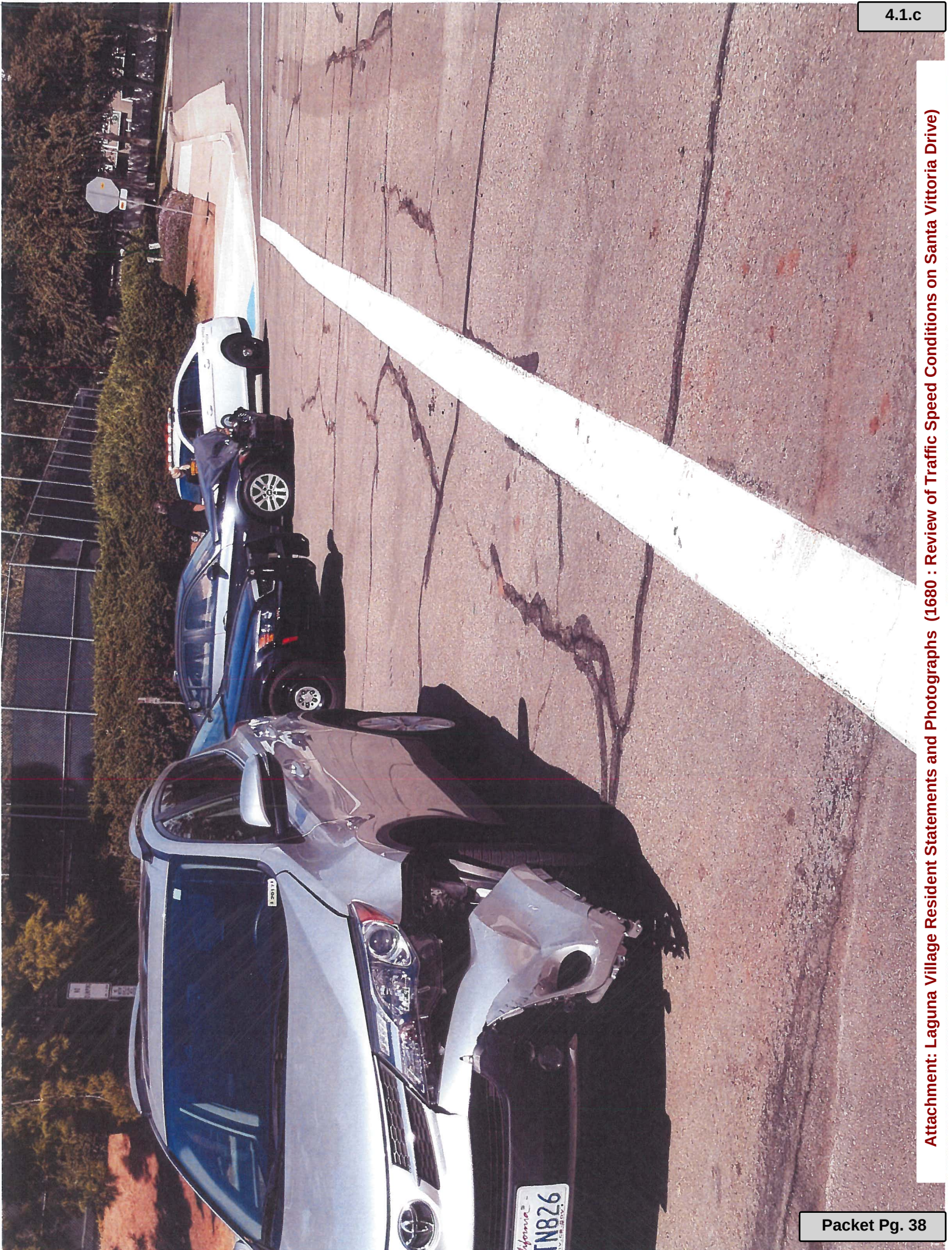


- Santa Vittoria:
- Moulton / Irvine Center Dr: 30 except for 25 at the school zone, San Juan Elementary and at the curve just before Veeh Ranch Park
 - Lake Forest: 45 on Moulton, 50 on Irvine Center Drive just past Scientific
 - Santa Maria: 55 from the 133 to Santa Vittoria/Tesla intersection, 45 after that
 - Bake Parkway: 40 MPH
 - Tesla: 50 MPH
 - No Speed limit posted



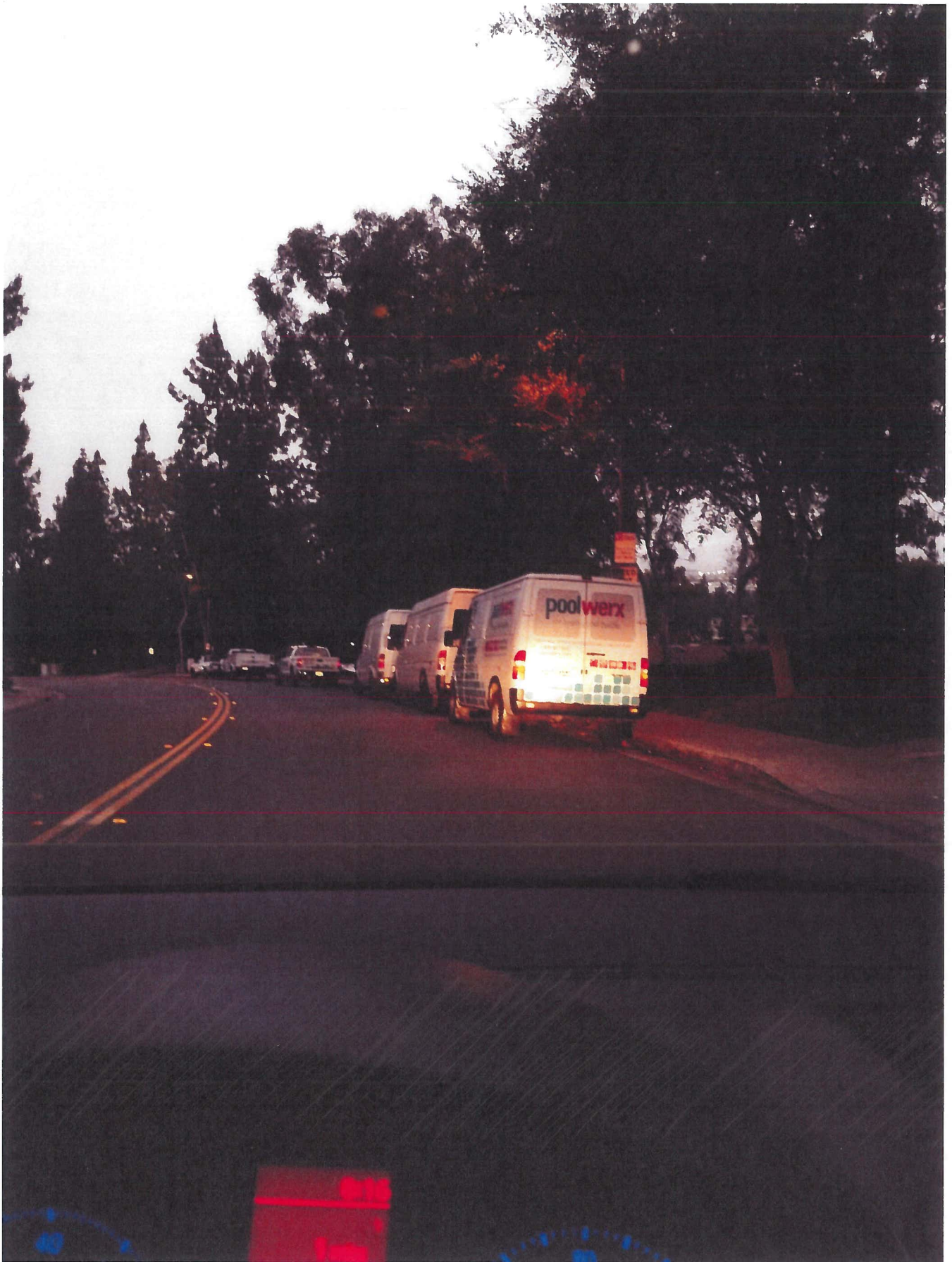


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Trammell Hartzog, President
Gerald J. Stock, PE, TE,
Executive Vice President

17852 E. 17th Street
Suite 101
Tustin, CA 92780

Phone: (714) 731-9455
FAX: (714) 731-9498

www.hartzog-crabill.com

September 6, 2018

Mr. Kenneth H. Rosenfield, PE
Assistant City Manager/Public Services Director
City of Laguna Hills
24035 El Toro Road
Laguna Hills, CA 92653

**Subject: Traffic Data Evaluation - Letter of Opinion -
Speeding and Collision Concerns along Santa Vittoria Drive**

Dear Mr. Rosenfield,

Pursuant to your request, Hartzog & Crabill, Inc. (HCI) has prepared this traffic engineering evaluation regarding residential concerns of speeding and collisions along the street segment of Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive.

The following data was gathered/performed as part of this evaluation:

- 1) Collect Average Daily Traffic (ADT) count on Santa Vittoria Drive
- 2) Perform (2) radar speed surveys on Santa Vittoria Drive
- 3) Review traffic collision history
- 4) Site visit to verify existing traffic controls, including signing/stripping

BACKGROUND

Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive, is primarily a 40-foot wide, 2-lane, curvy, north-south collector roadway. At the project limits, the roadway widens to include raised landscaped center medians, and a traffic signal at the northerly end of Lake Forest Drive, and a 3-way stop at the southerly end of Ridge Route Drive. There is a double-yellow centerline stripe along the narrow portions of this segment.

There are posted 30 MPH speed limit signs along Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive. There are also '30' pavement markings adjacent to the sign postings. On-street parking is prohibited on certain sections of Santa Vittoria Drive by various posted No Parking Any Time signs, No Parking on Street Sweeping day signs, and No Stopping Any Time signs.

Mr. Kenneth H. Rosenfield, PE
 September 6, 2018
 Page 2 of 5

TRAVEL SPEED DATA

To determine travel speeds on Santa Vittoria Drive, two spot speed radar surveys were conducted along this residential collector roadway on Wednesday, August 15, 2018 (see attached). The tables below summarize the radar speed data.

SPEED SURVEY SUMMARY SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE

<u>9:00-10:00AM</u> Radar Speed Data Summary	Northerly End Towards Lake Forest Drive
85 th Percentile Speed	40.6 MPH
Median Speed	35.1 MPH
15th Percentile Speed	30.0 MPH
10 MPH Pace Speed	31 - 40 MPH
Percent in Pace Speed	67.5%

<u>3:00-4:00PM</u> Radar Speed Data Summary	Southerly End Towards Ridge Route Drive
85 th Percentile Speed	35.6 MPH
Median Speed	31.2 MPH
15th Percentile Speed	27.4 MPH
10 MPH Pace Speed	27 - 36 MPH
Percent in Pace Speed	80.3%

As shown in the two tables above, the highest 85th-percentile speed on Santa Vittoria Drive was recorded in the morning at 40.6 MPH. This data shows that higher than typical travel speeds are occurring above the posted 30 MPH speed limit.

Mr. Kenneth H. Rosenfield, PE
 September 6, 2018
 Page 3 of 5

TRAFFIC VOLUME DATA

Average Daily Traffic (ADT) counts were collected for the segment of Santa Vittoria Drive, between Lake Forest Drive and Ridge Route Drive, on Tuesday, August 14, 2018.

The ADT, or 24-hour two-way traffic volume, along this segment resulted in 5,986 vehicles (see attached).

A two-lane collector street generally has a Level-of-Service (LOS) 'D' capacity of 11,300 vehicles per day. Consequently, the existing traffic volume is still well under the roadway capacity, and there are no recommendations regarding traffic volumes.

COLLISION DATA

HCI obtained the most recent, raw, citywide collision data that has been reported during the past five (5) years (between January 1, 2013 - May 31, 2018) from the Statewide Integrated Traffic Records System website (*i-SWITRS*) database. HCI then reviewed and prepared a collision history report to determine the number of collisions occurring on this particular segment of Santa Vittoria Drive. The table below presents the summary collision data, not including collisions identified on Lake Forest Drive at Santa Vittoria Drive.

TRAFFIC COLLISION DATA SUMMARY SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE

YEAR	NUMBER OF COLLISIONS	FATAL	INJURY	PROPERTY DAMAGE ONLY
2013	2	0	1	1
2014	0	0	0	0
2015	1	0	0	1
2016	4	0	1	3
2017	3	0	2	1
2018 *	2	0	1	1

* Available SWITRS data was up to May 2018 at the time of report preparation.

As shown above, there were a total of twelve (12) collisions reported along this segment within the last (5-1/2) years. These collisions were recorded as Rear End, Hit Object, Sideswipe and Broadside types. The various collisions were also categorized as Improper Turning, Traffic Signals and Signs, Driving Under the Influence, Following Too Closely, Unsafe Speed, Automobile ROW, and Other. Only one of the 12 were categorized as Unsafe Speed; therefore, there are no other recommendations regarding collisions at this time.

Mr. Kenneth H. Rosenfield, PE
September 6, 2018
Page 4 of 5

FIELD REVIEW

Our evaluation tasks included performing a field-review of the project segment of Santa Vittoria Drive for verification of existing conditions. HCI included the following two photographs as representative of existing conditions. As shown, the asphalt roadway and signing and striping are in good condition; consequently, there are no other field recommendations at this time.



Santa Vittoria Drive (Looking Southbound)



Santa Vittoria Drive (Looking Northbound)

Mr. Kenneth H. Rosenfield, PE
September 6, 2018
Page 5 of 5

RECOMMENDATIONS

As speeding was verified on Santa Vittoria Drive above the 30 MPH speed limit, it is recommended that an incremental approach be taken to address the higher travel speeds. Initial steps include:

- increased law enforcement.
- deployment of portable radar speed-feedback trailers.
- neighborhood watch committee meeting to help make all residents aware of speeding.
- review speed conditions in six months

It has been our pleasure to prepare this letter of opinion regarding Santa Vittoria Drive. If you may have any questions or need additional information, please feel free to call us anytime at (714) 731-9455.

Sincerely,
HARTZOG & CRABILL, INC.



Gerald J. Stock, PE, TE
Executive Vice President

Attachments: Radar Speed Data
 ADT Volume Data
 Collision History

Speed Data

SUMMARY OF RECOMMENDATIONS

STREET LOCATION	EXISTING SPEED LIMIT	RECOMMENDED SPEED LIMIT	85 TH PERCENTILE SPEED	AVERAGE SPEED	10 MPH PACE RANGE	PERCENT OF VEHICLES IN PACE	DAY / TIME / DATE
SANTA VITTORIA DRIVE							
LAKE FOREST TO CAMINITO COSTA							
S/O of CAMINITO JALISCO			40.6	35.1	31-40	67.5	WED / AM / 9:00 – 10:00
N/O of CAMINITO JALISCO			35.4	30.4	27-36	83.2	WED / AM / 10:00 – 11:00
CAMINITO COSTA TO RIDGE ROUTE							
S/O of CAMINITO COSTA			35.6	31.2	27-36	80.3	WED / PM / 3:00 – 4:00
AT CAMINITO JALISCO (S) (Near Ridge Route)			33.9	29.8	27-36	87.0	WED / PM / 4:00 – 5:00

HARTZOG AND CRABILL INC.
 Consulting Traffic Engineers
 17822 Irvine Blvd., Suite 112, Irvine, CA 92614
 (714) 731-5452

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA HILLS
 STREET: SANTA VICTORIA
 LOCATION: LAKE FOREST DR TO CAMINITO COSTA
S/D CAM. JALISCO

WEATHER: SUNNY DATE: 8-15-18
 ROAD CONDITION: DRY START TIME: 9:00 AM
 OBSERVER: CATHY BUENDIA END TIME: 10:00 AM VCR

DIRECTION: <u>SOUTHBOUND</u>						
MPH	NUMBER OF VEHICLES					TOTAL
	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
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18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>NORTHBOUND</u>						
MPH	NUMBER OF VEHICLES					TOTAL
	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
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22						
21						
20						
19						
18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
	55
	54
	53
	52
	51
	50
	49
	48
1	47
2	46
3	45
2	44
9	43
8	42
8	41
10	40
8	39
13	38
13	37
13	36
10	35
7	34
15	33
6	32
15	31
4	30
3	29
8	28
0	27
5	26
	25
	24
	23
	22
	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (s/o CAM. JALISCO)
DATE: 8/15/2018
SURVEY BY:
C. BUENDIA
TIME: 9:00 AM - 10:00 AM
CHECKED BY:
JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	99.5%
46					X	99.0%
45					X	97.9%
44					X	96.4%
43					X	95.4%
42					X	90.7%
41					X	86.6%
40					X	82.5%
39					X	77.3%
38					X	73.2%
37					X	65.5%
36					X	58.8%
35					X	49.5%
34					X	39.7%
33					X	33.5%
32					X	25.8%
31					X	22.7%
30					X	14.9%
29					X	10.3%
28					X	8.2%
27					X	6.7%
26					X	2.6%
25					X	2.6%
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%

UPPER LIMIT 10 MPH PACE: 40 MPH
 LOWER LIMIT 10 MPH PACE: 31 MPH
 PERCENT OVER PACE: 17.5 %
 PERCENT IN PACE: 67.5 %
 PERCENT UNDER PACE: 14.9 %

85th PERCENTILE SPEED: 40.6 MPH
 MEDIAN SPEED: 35.1 MPH
 15th PERCENTILE SPEED: 30.0 MPH

i Vittoria SPD 2018-AM1

Attachment: Santa Vittoria Drive Traffic Evaluation (1680 : Review of Traffic Speed Conditions on Santa Vittoria Drive)

Radar Speed Survey Field Sheet

AGENCY: _____

STREET: SANTA VITTORIALOCATION: LAKE FOREST TO CAMINITO COSTA (N/O CAM. LAISCO)

WEATHER: _____

DATE: 8-15-18

ROAD CONDITION: _____

START TIME: 10:00 AMOBSERVER: CATHY BUENDIAEND TIME: 11:00 AM VAL

DIRECTION: <u>SOUTHBOUND</u>							
MPH	5	10	15	20	25	30	TOTAL
60							
59							
58							
57							
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51							
50							
49							
48							
47							
46							
45							
44							
43							
42	/						2
41	/						0
40							0
39	/						1
38	/						1
37	/	/					6
36	/	/	/				4
35	/	/	/				2
34	/	/	/	/			8
33	/	/	/	/			3
32	/	/	/	/			3
31	/	/	/	/			8
30	/	/	/	/	/		13
29	/	/	/	/	/		9
28	/	/	/	/	/		7
27	/	/	/	/	/		10
26	/	/	/	/	/		4
25							
24							
23							
22							
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17							
16							
15							

AVERAGE
SPEED: _____CRITICAL
SPEED: _____PACE
SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>NORTHBOUND</u>							
MPH	5	10	15	20	25	30	TOTAL
60							
59							
58							
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40							0
39	/	/					3
38	/	/					1
37	/	/	/				7
36	/	/	/	/			5
35	/	/	/	/			12
34	/	/	/	/			8
33	/	/	/	/			10
32	/	/	/	/			8
31	/	/	/	/			5
30	/	/	/	/	/		14
29	/	/	/	/	/		7
28	/	/	/	/	/		12
27	/	/	/	/	/		6
26	/	/	/	/	/		3
25	/	/	/	/	/		2
24							
23							
22							
21							
20							
19							
18							
17							
16							
15							

AVERAGE
SPEED: _____CRITICAL
SPEED: _____PACE
SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
	55
	54
	53
	52
	51
	50
	49
	48
	47
	46
	45
	44
	43
2	42
1	41
0	40
4	39
2	38
13	37
9	36
14	35
16	34
13	33
11	32
3	31
27	30
16	29
19	28
16	27
7	26
2	25
	24
	23
	22
	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (s/o CAM. JALISCO)
DATE: 8/15/2018
SURVEY BY:
C. BUENDIA
TIME: 10:00 AM - 11:00 AM
CHECKED BY:
JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	100.0%
46					X	100.0%
45					X	100.0%
44					X	100.0%
43					X	100.0%
42					X	100.0%
41					X	98.9%
40					X	98.4%
39					X	98.4%
38					X	96.2%
37					X	95.1%
36					X	88.1% }PACE
35					X	83.2% }PACE ---85PCT
34					X	75.7% }PACE
33					X	67.0% }PACE
32					X	60.0% }PACE
31					X	54.1% }PACE
30					X	47.0% }PACE ---MEAN
29					X	32.4% }PACE
28					X	23.8% }PACE
27					X	13.5% }PACE ---15PCT
26					X	4.9%
25					X	1.1%
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%

UPPER LIMIT 10 MPH PACE: 36 MPH
 LOWER LIMIT 10 MPH PACE: 27 MPH
 PERCENT OVER PACE: 11.9 %
 PERCENT IN PACE: 83.2 %
 PERCENT UNDER PACE: 4.9 %

85th PERCENTILE SPEED: 35.4 MPH
 MEDIAN SPEED: 30.4 MPH
 15th PERCENTILE SPEED: 27.1 MPH

Santa Vittoria SPD 2018

HARTZOG AND CRABILL INC.

Consulting Traffic Engineers
17562 Irvine Blvd., Suite 122 Tustin CA 92680
(714) 731-9400

Radar Speed Survey Field Sheet

AGENCY: CITY OF LAGUNA HILLS
 STREET: SANTA VITTORIA
 LOCATION: CAMINITO COSTA TO RIDGE ROUTE
510 CAM. COSTA

WEATHER: SUNNY DATE: 8-15-18
 ROAD CONDITION: DRY START TIME: 3:00 PM
 OBSERVER: CATHY BUENDIA END TIME: 4:00 PM VCH

DIRECTION: <u>NORTHBOUND</u>						
MPH	NUMBER OF VEHICLES					TOTAL
	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						
42						
41						
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39						
38						
37						
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27						
26						
25						
24						
23						
22						
21						
20						
19						
18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>SOUTHBOUND</u>						
MPH	NUMBER OF VEHICLES					TOTAL
	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						
42						
41						
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24						
23						
22						
21						
20						
19						
18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
	55
	54
	53
	52
	51
	50
	49
	48
	47
	46
	45
	44
	43
1	42
0	41
2	40
7	39
2	38
10	37
4	36
11	35
13	34
8	33
10	32
5	31
12	30
10	29
9	28
2	27
5	26
3	25
1	24
1	23
1	22
	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (s/o CAM. COSTA)

DATE: 8/15/2018

SURVEY BY:

C. BUENDIA

TIME: 3:00 PM - 4:00 PM

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60					X	100.0%
59					X	100.0%
58					X	100.0%
57					X	100.0%
56					X	100.0%
55					X	100.0%
54					X	100.0%
53					X	100.0%
52					X	100.0%
51					X	100.0%
50					X	100.0%
49					X	100.0%
48					X	100.0%
47					X	100.0%
46					X	100.0%
45					X	100.0%
44					X	100.0%
43					X	100.0%
42					X	99.4%
41					X	99.4%
40					X	98.3%
39					X	94.4%
38					X	93.3%
37					X	89.9%
36					X	87.6%
35					X	81.5%
34					X	74.2%
33					X	68.0%
32					X	57.9%
31					X	48.3%
30					X	37.6%
29					X	25.8%
28					X	18.0%
27					X	12.9%
26					X	7.3%
25					X	3.9%
24					X	1.7%
23					X	1.1%
22					X	0.6%
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%

UPPER LIMIT 10 MPH PACE: 36 MPH
 LOWER LIMIT 10 MPH PACE: 27 MPH
 PERCENT OVER PACE: 12.4 %
 PERCENT IN PACE: 80.3 %
 PERCENT UNDER PACE: 7.3 %

85th PERCENTILE SPEED: 35.6 MPH
 MEDIAN SPEED: 31.2 MPH
 15th PERCENTILE SPEED: 27.4 MPH

Santa Vittoria SPD 2018

Radar Speed Survey Field Sheet

 AGENCY: CITY OF LAGUNA HILLS
 STREET: SANTA VITTORIA
 LOCATION: CAMINO COSTA TO RIDGE ROUTE @ CAMINO JULIUS (S)

 WEATHER: SUNNY DATE: 8-15-18
 ROAD CONDITION: DRY START TIME: 4:00 PM
 OBSERVER: CATHY BUENDIA END TIME: 5:00 PM V.A.

DIRECTION: <u>NORTHBOUND</u>						
MPH	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						
42						
41						
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39						
38						
37						
36						
35	/	/	/	/	/	
34	/	/	/	/	/	
33	/	/	/	/	/	
32	/	/	/	/	/	
31	/	/	/	/	/	
30	/	/	/	/	/	
29	/	/	/	/	/	
28	/	/	/	/	/	
27	/	/	/	/	/	
26	/	/	/	/	/	
25	/	/	/	/	/	
24	/	/	/	/	/	
23	/	/	/	/	/	
22						
21						
20						
19						
18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>SOUTHBOUND</u>						
MPH	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						
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40						
39	/	/	/	/	/	
38	/	/	/	/	/	
37	/	/	/	/	/	
36	/	/	/	/	/	
35	/	/	/	/	/	
34	/	/	/	/	/	
33	/	/	/	/	/	
32	/	/	/	/	/	
31	/	/	/	/	/	
30	/	/	/	/	/	
29	/	/	/	/	/	
28	/	/	/	/	/	
27	/	/	/	/	/	
26	/	/	/	/	/	
25	/	/	/	/	/	
24						
23						
22						
21						
20						
19						
18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
	55
	54
	53
	52
	51
	50
	49
	48
	47
	46
	45
	44
	43
	42
	41
	40
1	39
2	38
3	37
4	36
10	35
4	34
7	33
12	32
10	31
17	30
8	29
10	28
4	27
4	26
9	25
4	24
	23
	22
	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

SANTA VITTORIA DRIVE
LAKE FOREST TO RIDGE ROUTE (near Ridge Route)

DATE: 8/15/2018

SURVEY BY:

C. BUENDIA

TIME: 4:00 PM - 5:00 PM

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60						X 100.0%
59						X 100.0%
58						X 100.0%
57						X 100.0%
56						X 100.0%
55						X 100.0%
54						X 100.0%
53						X 100.0%
52						X 100.0%
51						X 100.0%
50						X 100.0%
49						X 100.0%
48						X 100.0%
47						X 100.0%
46						X 100.0%
45						X 100.0%
44						X 100.0%
43						X 100.0%
42						X 100.0%
41						X 100.0%
40						X 100.0%
39						X 100.0%
38						X 99.5%
37						X 98.4%
36					X	96.8% }PACE
35					X	94.6% }PACE
34				X		85.4% }PACE
33				X		81.6% }PACE ---85PCT
32				X		75.7% }PACE
31			X			62.2% }PACE
30			X			54.1% }PACE
29		X				35.7% }PACE ---MEAN
28		X				25.9% }PACE
27		X				14.1% }PACE ---15PCT
26	X					9.7%
25	X					7.6%
24	X					2.7%
23	X					0.5%
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%

UPPER LIMIT 10 MPH PACE: 36 MPH
 LOWER LIMIT 10 MPH PACE: 27 MPH
 PERCENT OVER PACE: 5.4 %
 PERCENT IN PACE: 87.0 %
 PERCENT UNDER PACE: 9.7 %

85th PERCENTILE SPEED: 33.9 MPH
 MEDIAN SPEED: 29.8 MPH
 15th PERCENTILE SPEED: 27.1 MPH

Santa Vittoria SPD 2018

Attachment: Santa Vittoria Drive Traffic Evaluation (1680 : Review of Traffic Speed Conditions on Santa Vittoria Drive)

ADT Volume Data

Prepared by NDS/ATD

VOLUME

Santa Vittoria Dr Bet. Lake Forest Dr & Ridge Route Dr

Day: Tuesday
Date: 8/14/2018City: Laguna Hills
Project #: CA18_1149_001

DAILY TOTALS					NB	SB	EB					WB	Total
					2,986	3,000						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00	3	7			10	12:00	31	43			74		
00:15	3	9			12	12:15	42	44			86		
00:30	5	3			8	12:30	51	40			91		
00:45	2	13	5	24	7	12:45	40	164	31	158	71		
01:00	4	4			8	13:00	43	38			81		
01:15	1	2			3	13:15	46	45			91		
01:30	2	4			6	13:30	38	42			80		
01:45	0	7	0	10	0	13:45	39	166	39	164	78		
02:00	2	1			3	14:00	41	47			88		
02:15	0	1			1	14:15	37	51			88		
02:30	1	0			1	14:30	43	48			91		
02:45	1	4	2	4	3	14:45	37	158	42	188	79		
03:00	0	0			0	15:00	32	60			92		
03:15	2	1			3	15:15	33	60			93		
03:30	4	1			5	15:30	31	45			76		
03:45	3	9	2	4	5	15:45	40	136	53	218	93		
04:00	6	0			6	16:00	48	80			128		
04:15	5	0			5	16:15	46	60			106		
04:30	7	1			8	16:30	40	68			108		
04:45	13	31	0	1	13	16:45	44	178	74	282	118		
05:00	11	0			11	17:00	46	80			126		
05:15	23	2			25	17:15	32	104			136		
05:30	21	6			27	17:30	39	106			145		
05:45	29	84	7	15	36	17:45	36	153	88	378	124		
06:00	49	5			54	18:00	54	76			130		
06:15	44	12			56	18:15	30	71			101		
06:30	54	7			61	18:30	35	69			104		
06:45	62	209	9	33	71	18:45	47	166	61	277	108		
07:00	74	21			95	19:00	20	59			79		
07:15	88	20			108	19:15	28	49			77		
07:30	79	24			103	19:30	33	66			99		
07:45	79	320	21	86	100	19:45	29	110	39	213	68		
08:00	79	16			95	20:00	34	49			83		
08:15	81	19			100	20:15	34	45			79		
08:30	70	26			96	20:30	19	42			61		
08:45	54	284	29	90	83	20:45	19	106	42	178	61		
09:00	49	31			80	21:00	25	49			74		
09:15	52	23			75	21:15	17	34			51		
09:30	47	26			73	21:30	12	38			50		
09:45	46	194	28	108	74	21:45	10	64	31	152	41		
10:00	62	33			95	22:00	7	24			31		
10:15	54	18			72	22:15	13	25			38		
10:30	50	27			77	22:30	11	18			29		
10:45	50	216	38	116	88	22:45	8	39	12	79	20		
11:00	37	40			77	23:00	7	17			24		
11:15	42	43			85	23:15	6	12			18		
11:30	43	34			77	23:30	4	11			15		
11:45	35	157	52	169	87	23:45	1	18	13	53	14		
TOTALS	1528	660			2188	TOTALS	1458	2340			3798		
SPLIT %	69.8%	30.2%			36.6%	SPLIT %	38.4%	61.6%			63.4%		

DAILY TOTALS					NB	SB	EB	WB	Total
					2,986	3,000	0	0	5,986
AM Peak Hour	07:15	11:45		07:00	PM Peak Hour	12:30	17:00		17:15
AM Pk Volume	325	179		406	PM Pk Volume	180	378		535
Pk Hr Factor	0.923	0.861		0.940	Pk Hr Factor	0.882	0.892		0.92
7 - 9 Volume	604	176	0	780	4 - 6 Volume	331	660	0	991
7 - 9 Peak Hour	07:15	08:00		07:00	4 - 6 Peak Hour	16:00	17:00		17:00
7 - 9 Pk Volume	325	90	0	406	4 - 6 Pk Volume	178	378	0	531
Pk Hr Factor	0.923	0.776	0.000	0.940	Pk Hr Factor	0.927	0.892	0.000	0.91

Attachment: Santa Vittoria Drive Traffic Evaluation (1680 : Review of Traffic Speed Conditions on Santa Vittoria Drive)

Collision History

CITY OF LAGUNA HILLS
5-YEAR SWITRS COLLISION DATABASE
SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE
JAN. 1, 2013 - MAY 31, 2018

CASE ID	COLL. DATE	COLL. TIME	PRIMARY ROAD	SECONDARY ROAD	DIST.	DIR.	INTERS.	WEATH. 1	COLL. SEVERITY	PRIM. COLL. FACT.	PCF VIOL. CAT.	PCF VIOL.	HIT AND RUN	TYPE OF COLL.	MOTOR VEHICLE INVOLVED WITH	RO SU
2013																
6153474	20130718	1642	SANTA VITTORIA DR	CAMINITO PACIFICO	137	S	N	A	4	A	8	22107	N	C	E	/
6214477	20130904	1904	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	3	A	12	21453	N	D	C	/
6272377	20131003	1835	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	2	D	0		N	D	C	/
6250176	20131012	2145	SANTA VITTORIA	RIDGE ROUTE	0		Y	A	0	A	1	23152	N	E	I	/
2014																
6482238	20140419	1530	LAKE FOREST	SANTA VITTORIA	0		Y	A	0	A	3	22350	M	C	C	/
6751623	20141208	920	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	4	A	12	21453	N	D	C	/
2015																
6804335	20150126	1437	SANTA VITTORIA DR	BASSANO WEST	58	N	N	C	0	D	0		N	E	I	/
2016																
7168329	20160112	1145	SANTA VITTORIA	AVENIDA COPETE	0		Y	A	4	A	3	22350	N	D	C	/
8023879	20160330	1300	SANTA VITTORIA	CAMINITO COSTA	22	S	N	A	0	A	4	21703	N	C	C	/
8053592	20160511	446	SANTA VITTORIA DR	AVENIDA CENTINELA	286	S	N	A	0	C	18		N	B	E	/
8086368	20160705	1050	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	3	A	12	21453	N	D	C	/
8171685	20161101	245	SANTA VITTORIA	RIDGE ROUTE DR	220	N	N	A	0	D	0		M	E	I	/
2017																
8499137	20171022	600	SANTA VITTORIA	LAKE FOREST DR	0		Y	A	0	A	12	21453	N	D	C	/
8498217	20171027	1053	SANTA VITTORIA DR	BASSANO	0		Y	A	4	A	8	22107	N	D	C	/
8502442	20171108	1740	SANTA VITTORIA DR	RIDGE ROUTE DR	0		Y	A	4	D	0		N	D	C	/
8593888	20171228	2120	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	4	A	1	23152	N	D	C	/
2018																
8563132	20180126	2007	SANTA VITTORIA DR	RIDGE ROUTE DR	500	N	N	A	0	A	9	21804	M	D	C	/
8619715	20180413	1637	LAKE FOREST DR	SANTA VITTORIA DR	0		Y	A	4	A	12	21453	N	D	C	/
8628398	20180427	1700	SANTA VITTORIA DR	RIDGE ROUTE DR	0		Y	A	3	A	9	21802	N	D	C	A

Attachment: Santa Vittoria Drive Traffic Evaluation (1680 : Review of Traffic Speed Conditions on Santa

CITY OF LAGUNA HILLS
5-YEAR SWITRS COLLISION DATABASE
SANTA VITTORIA DRIVE, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE
JAN. 1, 2013 - MAY 31, 2018

CASE ID	COLL. DATE	COLL. TIME	PRIMARY ROAD	SECONDARY ROAD	DIST.	DIR.	INTERS.	WEATH. 1	COLL. SEVERITY	PRIM. COLL. FACT.	PCF VIOL. CAT.	PCF VIOL.	HIT AND RUN	TYPE OF COLL.	MOTOR VEHICLE INVOLVED WITH	RO SU
---------	------------	------------	--------------	----------------	-------	------	---------	----------	----------------	-------------------	----------------	-----------	-------------	---------------	-----------------------------	-------

NOTES:

Weather 1	Collision Severity	Primary Collision Factor	PCF Violation Category	Hit and Run	Type of Collision
A - Clear	1 - Fatal	A - (Vehicle) Code Violation	01 - Driving or Bicycling Under Influence	F - Felony	A - Head-On
B - Cloudy	2 - Injury (Severe)	B - Other Improper Driving	02 - Impeding Traffic	M - Misdemeanor	B - Sideswipe
C - Raining	3 - Injury (Other Visible)	C - Other Than Driver	03 - Unsafe Speed	N - Not Hit & Run	C - Rear-End
D - Snowing	4 - Injury (Complaint of Pain)	D - Unknown	04 - Following Too Closely		D - Broadside
E - Fog	0 - PDO (Property Damage Only)	E - Fell Asleep	05 - Wrong Side of Road		E - Hit Object
F - Other		- - Not Stated	06 - Improper Passing		F - Overturned
G - Wind			07 - Unsafe Lane Change		G - Vehicle/Pedestrian
- - Not Stated			08 - Improper Turning		H - Other
			09 - Automobile ROW		- - Not Stated
			10 - Pedestrian ROW		
			11 - Pedestrian Violation		
			12 - Traffic Signals and Signs		
			13 - Hazardous Parking		
			14 - Lights		
			15 - Brakes		
			16 - Other Equipment		
			17 - Other Hazardous Violation		
			18 - Other Than Driver (or Ped)		
			19 -		
			20 -		
			21 - Unsafe Starting or Backing		
			22 - Other Improper Driving		
			23 - Pedestrian or "Other" Under the Influence		
			24 - Fell Asleep		
			00 - Unknown		
			- - Not Stated		

Motor Vehicle Involved With:

A - Non-Collision
 B - Pedestrian
 C - Other Motor Vehicle
 D - Motor Vehicle on Other Roadway
 E - Parked Motor Vehicle
 F - Train
 G - Bicycle
 H - Animal
 I - Fixed Object
 J - Other Object
 - - Not Stated

Road Surface

A - Dry
 B - Wet
 C - Snowy or Icy
 D - Slippery
 - - Not Stated



City of Laguna Hills

Traffic Commission

Staff Report

DATE: March 15, 2017

TO: Traffic Commissioners

FROM: Kenneth H. Rosenfield P.E.
Director of Public Services/City Engineer

ISSUE: Traffic Engineering Evaluation - Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

SUMMARY:

The Traffic Commission was contacted by residents of Laguna Village Community regarding concerns of speeding, cut-through traffic and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. The resident submitted multiple statements expressing similar concerns from other residents unable to attend the meeting.

Based upon the resident's concern and submitted statements from other residents, Staff initiated a traffic engineering evaluation of Santa Vittoria Drive between Ridge Route Drive and Lake Forest Drive. The traffic engineering evaluation, performed by Hartzog & Crabill, Inc., attached, determined:

- The traffic data on Santa Vittoria Drive shows traffic speed to be consistent with the speed limit;
- The traffic volumes to be consistent with historic counts, and well below the traffic carrying capacity of the roadway;
- The cut-through traffic to be in the low range; and
- No traffic collision history related to traffic speed.

Traffic Engineering Evaluation - Santa Vittoria Drive Between Ridge Route Drive and Lake Forest Drive
March 15, 2017
Page 2

The author of the evaluation report of Santa Vittoria Drive will be in attendance at this meeting to review the data collection and results.

Based upon the findings in the report, Staff recommends the Traffic Commission receive and file this report.

ATTACHMENTS:

- Vicinity Map
- Hartzog & Crabill, Inc. Traffic Engineering Evaluation



NORTH

95m

300ft

Date: 03/07/17

VICINITY MAP
SANTA VITTORIA DRIVE





Trammell Hartzog, President
 Jerry Crabill, P.E. (Retired)
 Gerald J. Stock, P.E.,
 Executive Vice President

17852 E. 17th Street
 Suite 101
 Tustin, CA 92780

Phone: (714) 731-9455
 FAX: (714) 731-9498

www.hartzog-crabill.com

February 20, 2017

Mr. Kenneth Rosenfield, P.E.
 Director of Public Services
City of Laguna Hills
 24045 El Toro Road
 Laguna Hills, CA 92653

Subject: Letter of Opinion – Speeding, Cut-through Traffic, and Collision Concerns along Santa Vittoria Drive from Ridge Route Drive to Lake Forest Drive

Dear Mr. Rosenfield,

Pursuant to your request, Hartzog & Crabill, Inc. (HCI) has prepared this traffic engineering review regarding residents concerns of speeding, cut-through traffic and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive.

Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive, is a 40-foot, 2-lane, north-south collector roadway. At its approach to Lake Forest Drive, the roadway width increases to 80-feet and provides two left-turn lanes, one through lane and one exclusive right-turn lane in the northbound direction. The intersection of Santa Vittoria Drive at Lake Forest Drive is controlled by a traffic signal. A raised center island median extends from Lake Forest Drive to just south of West Bassano (private street). Santa Vittoria Drive is STOP controlled at its intersection with Ridge Route Drive. On-street parking is prohibited along limited portions of Santa Vittoria Drive, and the posted speed limit on Santa Vittoria Drive is 30 MPH.

TRAVEL SPEEDS

To determine travel speeds on Santa Vittoria Drive, a speed-count survey was conducted at two separate locations along this collector roadway on Wednesday, December 7, 2016. The speed data was collected over a 24-hour period. Tables 1 and 2 below summarize the speed survey. The speed-count survey data is attached to this letter.

**TABLE 1
 SPEED SURVEY SUMMARY
 APPROXIMATELY 100 FEET SOUTH OF LAKE FOREST DR.**

85th Percentile Speed	34 mph
Average Speed	28 mph
15th Percentile Speed	22 mph

Mr. Kenneth Rosenfield, P.E.

February 20, 2017

Page 2 of 5

TRAVEL SPEEDS *(continued)*

TABLE 2
SPEED SURVEY SUMMARY
APPROXIMATELY 100 FEET NORTH OF RIDGE ROUTE DR.

85th Percentile Speed	33 mph
Average Speed	27 mph
15th Percentile Speed	21 mph

As shown in Tables 1 and 2, the 85th percentile speeds are consistent at the northerly (34 mph) and southerly limits (33 mph) of the study area. These speeds are typically what are expected for a collector road of this character, and does not indicate that there is a speeding problem on this segment of Santa Vittoria Drive. Therefore, there are no recommendations provided at this time, except to periodically place a portable radar trailer on Santa Vittoria Drive to serve as an additional reminder to drivers that the speed limit is 30 MPH.

TRAFFIC VOLUMES

Traffic counts were also collected at the same two locations where the speed data was collected to assess if traffic volumes have increased on this segment of Santa Vittoria Drive. The traffic volume data was also collected on Wednesday, December 7, 2016. The traffic counts showed that 24-hour two-way traffic volumes at the northerly and southerly locations are 6,985 and 5,573 vehicles respectively. The traffic counts are shown in the attached speed-count data.

Table 3 presents historical as well as the most recent traffic volumes on Santa Vittoria Drive.

TABLE 3
HISTORICAL TRAFFIC VOLUMES

YEAR	24-HOUR VOLUMES
2003	7,000
2005	4,900
2007	4,800
2009	4,400
2011	5,900
2013	5,100
2015	6,200
DEC 7, 2016 (2 LOCATIONS)	6,985 (N-Location); 5,573 (S-Location)

The above data shows that, between 2003 and 2016, traffic volumes range from a high of 7,000 vehicles per day to a low of 4,400 vehicles per day. The recent data shows traffic volumes are within but at the higher end of the historical range. A two-lane collector street generally has a Level-of-Service (LOS) 'D' capacity of 11,300 vehicles per day. Consequently, there is not a significant change in recent traffic volumes; and, there are no other recommendations regarding traffic volumes to provide at this time.

Mr. Kenneth Rosenfield, P.E.

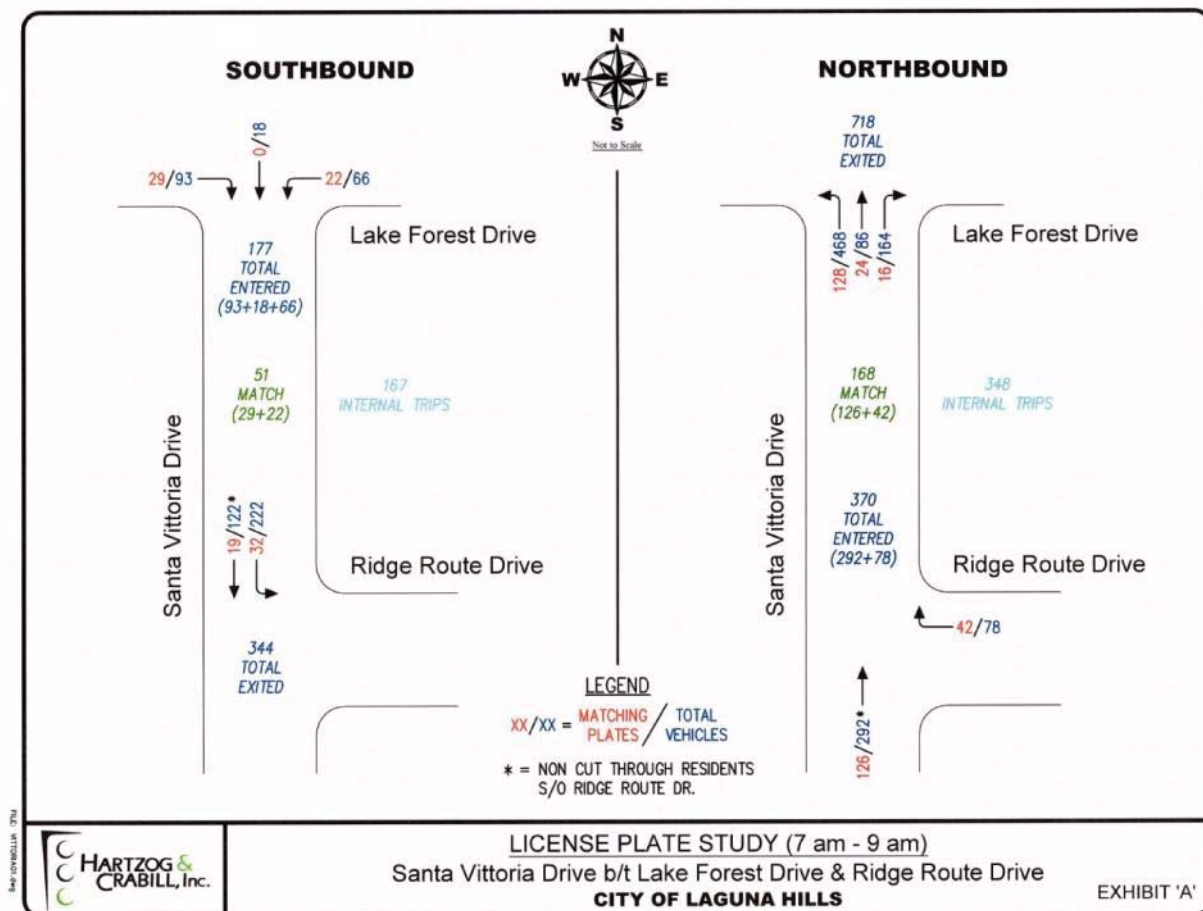
February 20, 2017

Page 3 of 5

CUT-THROUGH TRAFFIC

An Origin-Destination (O&D) study (i.e., license plate survey) was conducted on Tuesday, January 17, 2017 to quantify the amount of traffic using Santa Vittoria Drive as a short-cut. The study collected license plate numbers for all vehicles entering and exiting Santa Vittoria Drive at Lake Forest Drive and at Ridge Route Drive. Additionally, the study documented where the vehicle is coming from to determine if the vehicle is continuing a natural travel path or is actually cutting through the neighborhood. For example, a vehicle entering northbound Santa Vittoria Drive at Ridge Route Drive that entered via northbound Santa Vittoria from the south is most likely a vehicle continuing on their natural travel route through the neighborhood. A vehicle with a license plate number recorded at both Ridge Route Drive and Lake Forest Drive and not on its natural travel route is considered a “match” and represents a cut-through vehicle. A non-match vehicle represents an internally generated trip.

Exhibits A below and B on next page illustrate natural travel, internal, and cut through traffic volumes.

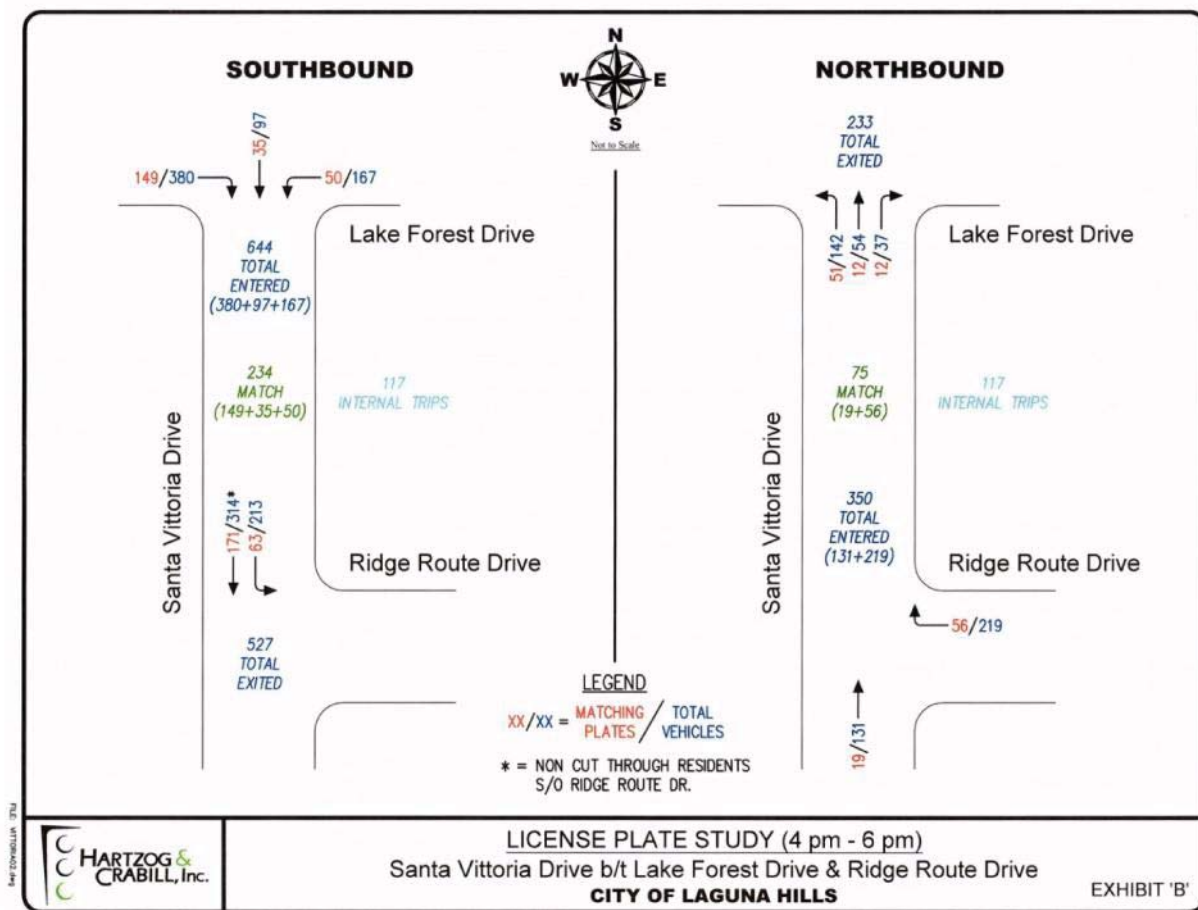


Mr. Kenneth Rosenfield, P.E.

February 20, 2017

Page 4 of 5

CUT-THROUGH TRAFFIC (continued)



The above exhibits are summarized in Table 4 below, which shows that cut-through traffic ranges from a low of 6% in the northbound direction during the morning peak hour to a high of 24% also in northbound direction during the afternoon peak hour. The percentages are not considered to be significant relative to the traffic capacity of the street.

TABLE 4
ORIGIN-DESTINATION STUDY RESULTS

TIME	DIRECTION	ENTER RIDGE ROUTE	EXIT LAKE FOREST	ENTER LAKE FOREST	EXIT RIDGE ROUTE	NUMBER OF CUT- THROUGH (MATCHES)	PERCENT CUT- THROUGH	INTERNAL /PASS THROUGH TRIPS
7-9 AM	Northbound	370	725		344	42	6%	683
7-9 AM	Southbound			177		32	10 %	312
4-6 PM	Northbound	350	233			56	24%	177
4-6 PM	Southbound			644	527	63	12%	464

Mr. Kenneth Rosenfield, P.E.
 February 20, 2017
 Page 5 of 5

COLLISIONS

HCI obtained collision data from the Statewide Integrated Traffic Records System website (i-SWITRS) database to determine the number of collisions occurring on Santa Vittoria Drive between January 1, 2011 - November 30, 2016. Table 5 below presents the summary collision data.

TABLE 5
TRAFFIC COLLISIONS

YEAR	NUMBER OF COLLISIONS	FATAL	INJURY	PROPERTY DAMAGE ONLY
2011	4	0	0	4
2012	2	0	2	0
2013	2	0	1	1
2014	0	0	0	0
2015	2	0	1	1
2016*	4	0	1	3

*Dec. 2016 data not available at the time of this report preparation.

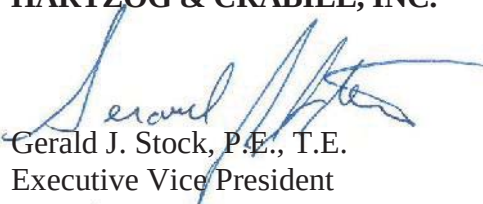
Out of the (14) total collisions reported, (10) were recorded as vehicle code violations (for example, failure to yield the right-of-way), (1) was not defined, and (1) was not attributed to the driver. The comprehensive 6-year intersection collision history report is attached to this letter. As shown, there were no collisions determined as 'speed-related'. Consequently, there are no other recommendations regarding collisions to provide at this time.

SUMMARY

In summary, the traffic data on Santa Vittoria Drive shows traffic speed to be consistent with the speed limit, traffic volumes to be consistent with historic counts and well-below the traffic carrying capacity of the roadway, cut-through traffic to be in the low range, and no traffic collision history related to traffic speed.

It has been our pleasure to prepare this letter of opinion regarding speeds, traffic volumes, cut-through traffic, and collisions on Santa Vittoria Drive, between Ridge Route Drive and Lake Forest Drive. If you have any questions or need additional information, please feel free to call us at (714) 731-9455.

Sincerely,
HARTZOG & CRABILL, INC.


 Gerald J. Stock, P.E., T.E.
 Executive Vice President

Attachments: Speed-Count Data
 Intersection Collision History

Speed-Count Data

4.1.b

SPEED

Santa Vittoria Dr S/O Lake Forest Dr

Day: Wednesday

City: Laguna Hills

Date: 12/7/2016

Project #: CA16_71283_00

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	2	2	2	13	14	7	2	0	0	0	0	0	0	42
01:00	1	0	0	7	9	5	0	0	0	0	0	0	0	22
02:00	0	0	2	2	4	1	0	1	0	0	0	0	0	10
03:00	1	0	2	5	6	4	0	0	0	0	0	0	0	18
04:00	0	0	4	11	14	9	0	1	0	0	0	0	0	39
05:00	1	3	15	34	38	24	5	0	0	0	0	0	0	120
06:00	7	20	31	110	126	33	2	0	0	0	0	0	0	329
07:00	16	38	67	244	170	28	3	1	0	0	0	0	0	567
08:00	6	23	36	179	205	29	5	0	0	0	0	0	0	483
09:00	0	12	28	128	129	34	6	0	0	0	0	0	0	337
10:00	5	8	39	117	110	30	6	0	0	0	0	0	0	315
11:00	5	11	49	123	108	16	2	0	0	0	0	0	0	314
12:00 PM	12	21	63	159	111	35	1	0	0	0	0	0	0	402
13:00	4	16	44	140	143	33	4	0	0	0	0	0	0	384
14:00	8	20	62	132	122	38	4	1	0	0	0	0	0	387
15:00	18	54	125	160	98	15	1	1	0	0	0	0	0	472
16:00	18	20	101	216	166	19	5	0	0	0	0	0	0	545
17:00	25	61	124	226	141	22	1	0	0	0	0	0	0	600
18:00	27	52	123	199	140	23	0	0	0	0	0	0	0	564
19:00	13	21	32	143	114	30	4	0	0	0	0	0	0	357
20:00	8	19	28	75	89	24	2	0	0	0	0	0	0	245
21:00	2	5	27	77	74	23	1	0	0	0	0	0	0	209
22:00	2	4	16	49	59	17	3	0	0	0	0	0	0	150
23:00	2	3	4	19	28	14	4	0	0	0	0	0	0	74
Totals	183	413	1024	2568	2218	513	61	5						6985
% of Totals	3%	6%	15%	37%	32%	7%	1%	0%						100%

Directional Peak Periods All Speeds	AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes	
	Volume	%	Volume	%	Volume	%	Volume	%
AM Volumes	44	117	275	973	220	31	3	0
% AM	1%	2%	4%	14%	3%	0%	0%	37%
AM Peak Hour	07:00	07:00	07:00	07:00	09:00	09:00	02:00	07:00
Volume	16	38	67	244	34	6	1	567
PM Volumes	139	296	749	1595	293	30	2	0
% PM	2%	4%	11%	23%	4%	0%	0%	63%
PM Peak Hour	18:00	17:00	15:00	17:00	14:00	16:00	14:00	17:00
Volume	27	61	125	226	38	5	1	600
		1050	↔	786	↔	1145	↔	4004
			15%		11%		16%	
								57%

Street Name Direction

Percentiles

15th

50th

Average

85th

95th

ADT

4.1.e

g. 2

Attachment: Traffic Commission Agenda Item 4.1 March 15 2017 (1680 : Review of Traffic Speed Conditions on Santa Vittoria Drive)

SPEED

Santa Vittoria Dr N/O Ridge Route Dr

Day: Wednesday
Date: 12/7/2016

City: Laguna Hills
Project #: CA16_71283_00

4.1.b

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	1	8	5	12	14	3	0	0	0	0	0	0	0	43
01:00	1	2	4	8	3	0	0	0	0	0	0	0	0	18
02:00	0	0	1	0	2	0	0	0	0	0	0	0	0	3
03:00	0	0	2	4	4	0	0	0	0	0	0	0	0	10
04:00	0	1	4	13	8	1	0	0	0	0	0	0	0	27
05:00	0	6	22	46	22	4	0	0	0	0	0	0	0	100
06:00	5	13	44	86	55	16	2	0	0	0	0	0	0	221
07:00	5	43	59	174	125	18	2	0	0	0	0	0	0	426
08:00	2	25	63	164	112	18	0	0	0	0	0	0	0	384
09:00	2	25	48	108	75	13	1	0	0	0	0	0	0	272
10:00	2	26	54	112	73	9	1	0	0	0	0	0	0	277
11:00	7	24	70	123	78	20	1	0	0	0	0	0	0	323
12:00 PM	2	19	73	135	87	12	1	0	0	0	0	0	0	329
13:00	4	36	93	128	88	16	0	0	0	0	0	0	0	365
14:00	7	36	86	150	94	13	1	0	0	0	0	0	0	387
15:00	9	40	94	150	93	18	1	0	0	0	0	0	0	405
16:00	2	47	78	165	113	18	0	0	0	0	0	0	0	423
17:00	7	55	104	161	124	16	2	0	0	0	0	0	0	469
18:00	1	28	73	137	95	8	0	0	0	0	0	0	0	342
19:00	5	30	61	93	65	5	0	0	0	0	0	0	0	259
20:00	2	23	35	60	58	10	0	0	0	0	0	0	0	188
21:00	3	16	27	46	43	5	0	0	0	0	0	0	0	140
22:00	0	14	21	33	33	8	0	0	0	0	0	0	0	109
23:00	2	3	10	16	20	2	0	0	0	0	0	0	0	53
Totals	69	520	1131	2124	1484	233	12	0%						5573
% of Totals	1%	9%	20%	38%	27%	4%	0%							100%

Directional Peak Periods All Speeds	AM 7-9		NOON 12-2		PM 4-6		Off Peak Volumes	
	Volume	%	Volume	%	Volume	%	Volume	%
AM Volumes	25	173	376	850	571	102	0	0
% AM	0%	3%	7%	15%	10%	2%	0	0
AM Peak Hour	11:00	07:00	11:00	07:00	07:00	11:00		
Volume	7	43	70	174	125	20		
PM Volumes	44	347	755	1274	913	131	0	0
% PM	1%	6%	14%	23%	16%	2%	0	0
PM Peak Hour	15:00	17:00	17:00	16:00	17:00	15:00		
Volume	9	55	104	165	124	18		

Intersection Collision History

CITY OF LAGUNA HILLS
SWITRS COLLISION DATABASE

SANTA VITTORIA, FROM LAKE FOREST DRIVE TO RIDGE ROUTE DRIVE
JAN. 1, 2011 - NOV. 30, 2016

4.1.b

Comment: Hartzog & Crabill, Inc. Traffic Engineering Evaluation (1230 : Traffic Engineering Evaluation -

JAN. 1, 2011 - NOV. 30, 2016																
CASE ID	COLLISION		PRIMARY ROAD	SECONDARY ROAD	DIST.	DIR.	INTERS.	WEATH.	COLL. SEVERITY	PRIM. COLL. FACT.	PCF VIOL. CAT.	HIT AND RUN COLL.	TYPE OF COLL.	MOTOR VEHICLE INVOLVED WITH	RO/ SUF	
	DATE	TIME														
5135934	20110315	810	SANTA VITTORIA DR	CAMINITO COPETE	44	S	N	A	0	A	9	21804	N	D	C	A
5297868	20110906	915	SANTA VITTORIA DR	CAMINITO COSTA	32	S	N	A	0	A	3	22350	N	C	E	A
5339522	20111012	1320	SANTA VITTORIA DR	RIDGE ROUTE DR	0		Y	A	0	D	0		N	D	C	A
5462413	20111209	721	SANTA VITTORIA	BASSANO EAST	0		Y	A	0	A	9	21804	N	D	C	A
5495853	20120112	1515	SANTA VITTORIA DR	BASSANO E	0		Y	A	3	A	6	21750	N	B	C	A
5766861	20120803	1743	SANTA VICTORIA	LAKE FOREST DR	1295	S	N	A	4	A	3	22350	N	C	C	A
6153474	20130718	1642	SANTA VITTORIA DR	CAMINITO PACIFICO	137	S	N	A	4	A	8	22107	N	C	E	A
6250176	20131012	2145	SANTA VITTORIA	RIDGE ROUTE	0		Y	A	0	A	1	23152	N	E	I	A
6804335	20150126	1437	SANTA VITTORIA DR	BASSANO WEST	58	N	N	C	0	D	0		N	E	I	B
6947369	20150518	810	SANTA VITTORIA DR	CAMINITO JALISCO S	237	E	N	A	4	A	9	21804	N	B	C	A
7168329	20160112	1145	SANTA VITTORIA	AVENIDA COPETE	0		Y	A	4	A	3	22350	N	D	C	A
8023879	20160330	1300	SANTA VITTORIA	CAMINITO COSTA	22	S	N	A	0	A	4	21703	N	C	C	A
8053592	20160511	446	SANTA VITTORIA DR	AVENIDA CENTINELA	286	S	N	A	0	C	18		N	B	E	A
8171685	20161101	245	SANTA VITTORIA	RIDGE ROUTE DR	220	N	N	A	0	D	0		M	E	I	A

NOTES:

Weather 1	Collision Severity	Primary Collision Factor	PCF Violation Category	Hit and Run	Type of Collision
A - Clear	1 - Fatal	A - (Vehicle) Code Violation	01 - Driving or Bicycling Under Influence	F - Felony	A - Head-On
B - Cloudy	2 - Injury (Severe)	B - Other Improper Driving	02 - Impeding Traffic	M - Misdemeanor	B - Sideswipe
C - Raining	3 - Injury (Other Visible)	C - Other Than Driver	03 - Unsafe Speed	N - Not Hit & Run	C - Rear-End
D - Snowing	4 - Injury (Complaint of Pain)	D - Unknown	04 - Following Too Closely		D - Broadside
E - Fog	0 - PDO (Property Damage Only)	E - Fell Asleep	05 - Wrong Side of Road		E - Hit Object
F - Other		-- Not Stated	06 - Improper Passing		F - Overturned
G - Wind			07 - Unsafe Lane Change		G - Vehicle/Pedestrian
-- Not Stated			08 - Improper Turning		H - Other
			09 - Automobile ROW		-- Not Stated
			10 - Pedestrian ROW		
			11 - Pedestrian Violation		
			12 - Traffic Signals and Signs		
			13 - Hazardous Parking		
			14 - Lights		
			15 - Brakes		
			16 - Other Equipment		
			17 - Other Hazardous Violation		
			18 - Other Than Driver (or Ped)		
			19 -		
			20 -		
			21 - Unsafe Starting or Backing		

Motor Vehicle Involved With:

A - Non-Collision	
B - Pedestrian	
C - Other Motor Vehicle	
D - Motor Vehicle on Other Roadway	
E - Parked Motor Vehicle	
F - Train	
G - Bicycle	
H - Animal	
I - Fixed Object	
J - Other Object	
-- Not Stated	

4.1.e

g. 2



City of Laguna Hills

Traffic Commission

Staff Report

DATE: September 19, 2018
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Review of Traffic Speed Conditions on Rapid Falls Road Between Hidden Trail Road and Lost Trail Drive

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

SUMMARY:

Staff was recently contacted by a resident regarding concerns of vehicular speeding on Rapid Falls Road from Hidden Trail Road to Lost Trail Drive. Please see the attached Vicinity Map. Based upon the resident's concern and in accordance with the Residential Streets Management Policy, staff initiated a review of the travel speeds and traffic collision history on Rapid Falls Road between Hidden Trail Road and Lost Trail Drive.

The speed surveys, performed by Hartzog & Crabill, Inc., attached, determined the 85th percentile speeds on Rapid Falls Road as 32.4 mph near the west end towards Hidden Trail Road and 31.8 mph near the east end towards Lost Trail Drive. While the regulatory speed limit on a residential street is 25 mph, Staff's experience has found the typical prevailing speed range on residential streets in the City as being between 32 and 34 mph, without adverse traffic collision history. The 85th percentile speeds determined in this speed survey are consistent with our experience.

A five-year traffic collision history report was prepared and, determined there were no traffic collisions reported along this segment during this time. Consequently, no change

Review of Traffic Speed Conditions on Rapid Falls Road

September 19, 2018

Page 2

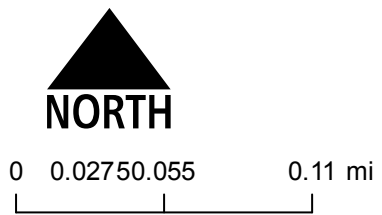
to traffic controls is proposed but speed enforcement is recommended. As available, police enforcement of driver behavior will be pursued as the best remedy for this location and issue of concern. Staff will work with the Sheriff's Department on enforcement activity in this area and we will also post the radar trailer in this area to increase driver education as to the appropriate speed on Rapid Falls Road.

ATTACHMENTS:

- Vicinity Map
- Rapid Falls Road- Traffic Evaluation



Attachment: Vicinity Map (1679 : Review of Traffic Speed Conditions on Rapid Falls Road)



VICINITY MAP - RAPID FALLS ROAD





Trammell Hartzog, President
Gerald J. Stock, PE, TE,
Executive Vice President

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Suite 101
Tustin, CA 92780

Phone: (714) 731-9455
FAX: (714) 731-9498

www.hartzog-crabill.com

September 6, 2018

Mr. Kenneth H. Rosenfield, PE
Assistant City Manager/Public Services Director
City of Laguna Hills
24035 El Toro Road
Laguna Hills, CA 92653

**Subject: Traffic Data Evaluation - Letter of Opinion -
Speeding and Collision Concerns along Rapid Falls Road**

Dear Mr. Rosenfield,

Pursuant to your request, Hartzog & Crabill, Inc. (HCI) has prepared this traffic engineering evaluation regarding residential concerns of speeding and collisions along the street segment of Rapid Falls Road, between Hidden Trail Road and Lost Trail Drive.

The following data was gathered/performed as part of this evaluation:

- 1) Perform (2) radar speed surveys on Rapid Falls Road
- 2) Review traffic collision history
- 3) Site visit to verify existing traffic controls, including signing/striping

BACKGROUND

Rapid Falls Road, between Hidden Trail Road and Lost Trail Drive, is a 40-foot wide, 2-lane, curvy, east-west collector roadway. There are residential properties on both sides of the roadway. The directions are separated by a double-yellow centerline. Both the westerly and easterly intersections of this segment are controlled by a 3-way Stop sign installation.

The posted speed limit on Rapid Falls Road between Hidden Trail Road and Lost Trail Drive is 25 MPH. There are also pavement markings that state '25' adjacent to the posted speed limit signs. On-street parking is primarily allowed on both sides of the roadway, while a portion on the south-side is posted as permit parking only.

Mr. Kenneth H. Rosenfield, PE
 September 6, 2018
 Page 2 of 6

TRAVEL SPEED DATA

To determine travel speeds on Rapid Falls Road, two spot speed radar surveys were conducted along this residential collector roadway on Tuesday, August 14, 2018 (see attached). The tables below summarize the radar speed data:

SPEED SURVEY SUMMARY RAPID FALLS ROAD, FROM HIDDEN TRAIL ROAD TO LOST TRAIL DRIVE

<u>9:00-10:00AM</u> Radar Speed Data Summary	Near West End Towards Hidden Trail Road
85 th Percentile Speed	32.4 MPH
Median Speed	28.4 MPH
15th Percentile Speed	25.6 MPH
10 MPH Pace Speed	25 - 34 MPH
Percent of Vehicles in Pace Speed	89.1%

<u>3:00-4:00PM</u> Radar Speed Data Summary	Near East End Towards Lost Trail Drive
85 th Percentile Speed	31.8 MPH
Median Speed	27.9 MPH
15th Percentile Speed	24.4 MPH
10 MPH Pace Speed	24 - 33 MPH
Percent of Vehicles in Pace Speed	88.6%

Although the two tables above show very similar results, the highest 85th-percentile speed on Rapid Falls Road was recorded in the morning at 32.4 MPH. This data shows that higher than typical travel speeds are occurring above the posted 25 MPH speed limit.

TRAFFIC VOLUME DATA

Data collection of new vehicular traffic count data was not part of our tasks. However, traffic counts were previously gathered last year for the segment of Rapid Falls Road, between Lost Trail Drive and Cabot Road, to assess if traffic volumes had increased on this segment of Rapid Falls Road. This prior traffic volume data had been collected on Tuesday, May 9, 2017, and showed that the Average Daily Traffic (ADT) [24-hour two-way traffic volumes] along this segment is approximately 2,000 vehicles.

The table below presents the historical traffic volumes on Rapid Falls Road.

HISTORICAL TRAFFIC VOLUMES RAPID FALLS ROAD, LOST TRAIL DRIVE TO CABOT ROAD

YEAR	24-HOUR VOLUMES *
2005	2,500
2007	2,600
2009	2,400
2011	2,400
2013	2,000
2015	2,300
2017	2,000

* Rounded to the nearest 100 vehicles.

The above data shows that, between 2005 and 2017, traffic volumes range from a high of 2,600 vehicles per day to a low of 2,000 vehicles per day. The most recent data shows traffic volumes are at the lower end of the historical range.

A two-lane collector street generally has a Level-of-Service (LOS) 'D' capacity of 11,300 vehicles per day. Consequently, the traffic volumes are well under the roadway capacity for Rapid Falls Road, and there are no other recommendations regarding traffic volumes at this time.

Mr. Kenneth H. Rosenfield, PE
September 6, 2018
Page 4 of 6

FIELD REVIEW

Our evaluation tasks included performing a field-review of the project segment of Rapid Falls Road for verification of existing conditions. HCI included the following two photographs as representative of existing conditions. As shown, the asphalt roadway and signing and striping are in good condition; consequently, there are no other field recommendations at this time.



Rapid Falls Road (Looking Eastbound)



Rapid Falls Road (Looking Westbound)

Mr. Kenneth H. Rosenfield, PE
 September 6, 2018
 Page 5 of 6

COLLISION DATA

HCI obtained the most recent, raw, citywide collision data that has been reported during the past five (5) years (between January 1, 2013 - May 31, 2018) from the Statewide Integrated Traffic Records System website (*i-SWITRS*) database.

HCI staff then reviewed and prepared a collision history report (see attached) to determine the number of collisions occurring on this particular segment of Rapid Falls Road. The table below presents the summary collision data.

TRAFFIC COLLISION DATA SUMMARY RAPID FALLS ROAD, FROM HIDDEN TRAIL ROAD TO LOST TRAIL DRIVE

YEAR	NUMBER OF COLLISIONS	FATAL	INJURY	PROPERTY DAMAGE ONLY
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0
2016	0	0	0	0
2017	0	0	0	0
2018 *	0	0	0	0

* Available SWITRS data was up to May 2018 at the time of report preparation.

As shown above, there were no (0) collisions reported along this particular segment of Rapid Falls Road within the last (5) years. Consequently, there are no other recommendations regarding collisions at this time.

RECOMMENDATIONS

As speeding was verified above the posted speed limit of 25 MPH on Rapid Falls Road, it is recommended that an incremental approach be taken to address the higher travel speeds on this roadway. Initial steps include:

- increased law enforcement.
- deployment of portable radar speed-feedback trailers.
- neighborhood watch committee meeting to help make all residents aware of speeding.

Mr. Kenneth H. Rosenfield, PE
September 6, 2018
Page 6 of 6

It has been our pleasure to prepare this letter of opinion regarding Rapid Falls Road. If you may have any questions or need additional information, please feel free to call us anytime at (714) 731-9455.

Sincerely,
HARTZOG & CRABILL, INC.



Gerald J. Stock, PE, TE
Executive Vice President

Attachments: Radar Speed Data
 Collision History

Speed Data

SUMMARY OF RECOMMENDATIONS

STREET LOCATION	EXISTING SPEED LIMIT	RECOMMENDED SPEED LIMIT	85 TH PERCENTILE SPEED	AVERAGE SPEED	10 MPH PACE RANGE	PERCENT OF VEHICLES IN PACE	DAY / TIME / DATE
RAPID FALLS ROAD							
HIDDEN TRAIL TO LOST TRAIL							
WEST END (Near Hidden Trail)	25	25	32.4	28.4	25-34	89.1	TUES / AM / 9:00 – 10:00
WEST END (Near Hidden Trail)			29.6	26.7	23-32	89.3	TUES / AM / 10:00 – 11:00
EAST END (Near Lost Trail)			31.8	27.9	24-33	88.6	TUES / PM / 3:00 – 4:00
EAST END (Near Lost Trail)			30.2	26.4	22-31	89.8	TUES/ PM / 4:00 – 5:00

Radar Speed Survey Field Sheet

 AGENCY: CITY OF LAGUNA HILLS
 STREET: RAPID FALLS
 LOCATION: HIDDEN TRAIL TO LOST TRAIL (WEST END)

 WEATHER: SUNNY DATE: 8-14-18
 ROAD CONDITION: DRY START TIME: 9:00 AM
 OBSERVER: CATHY BUENDIA END TIME: 10:00 AM *Jul*

DIRECTION: <u>WESTBOUND</u>							
MPH	NUMBER OF VEHICLES						TOTAL
	5	10	15	20	25	30	
60							
59							
58							
57							
56							
55							
54							
53							
52							
51							
50							
49							
48							
47							
46							
45							
44							
43							
42							
41							
40							
39							
38							
37	/						1
36	//						2
35							0
34	//						2
33	//						1
32	//						4
31	//						3
30	//						5
29	//						3
28	//						8
27	//						5
26	//						2
25	//						3
24							0
23	//						2
22							
21							
20							
19	/						
18							
17							
16							
15							

 AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____
 CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>EASTBOUND</u>							
MPH	NUMBER OF VEHICLES						TOTAL
	5	10	15	20	25	30	
60							
59							
58							
57							
56							
55							
54							
53							
52							
51							
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41							
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39							
38							
37							
36	/						1
35	//						2
34	//						2
33	//						5
32	//						1
31	//						6
30	//						4
29	//						10
28	//						6
27	//						16
26	//						3
25	//						4
24	/						1
23							
22							
21							
20							
19							
18							
17							
16							
15							

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
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	52
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	48
	47
	46
	45
	44
	43
	42
	41
	40
	39
	38
1	37
3	36
2	35
4	34
5	33
6	32
8	31
9	30
13	29
14	28
11	27
5	26
7	25
3	24
	23
	22
	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI
CITY OF LAGUNA HILLS
RAPID FALLS ROAD

DATE: 8/14/2018

TIME: 9:00 AM - 10:00 AM

HIDDEN TRAIL TO LOST TRAIL (WEST END)

SURVEY BY:

C. BUENDIA

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60						X 100.0%
59						X 100.0%
58						X 100.0%
57						X 100.0%
56						X 100.0%
55						X 100.0%
54						X 100.0%
53						X 100.0%
52						X 100.0%
51						X 100.0%
50						X 100.0%
49						X 100.0%
48						X 100.0%
47						X 100.0%
46						X 100.0%
45						X 100.0%
44						X 100.0%
43						X 100.0%
42						X 100.0%
41						X 100.0%
40						X 100.0%
39						X 100.0%
38						X 100.0%
37						X 100.0%
36						X 98.9%
35					X	95.7%
34					X	93.5% }PACE
33					X	89.1% }PACE
32				X		82.6% }PACE ---85PCT
31				X		77.2% }PACE
30				X		68.5% }PACE
29			X			58.7% }PACE
28			X			44.6% }PACE ---MEAN
27		X				29.3% }PACE
26		X				17.4% }PACE
25		X				12.0% }PACE ---15PCT
24	X					4.3%
23	X					3.3%
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%

UPPER LIMIT 10 MPH PACE: 34 MPH
 LOWER LIMIT 10 MPH PACE: 25 MPH
 PERCENT OVER PACE: 6.5 %
 PERCENT IN PACE: 89.1 %
 PERCENT UNDER PACE: 4.3 %

85th PERCENTILE SPEED: 32.4 MPH
 MEDIAN SPEED: 28.4 MPH
 15th PERCENTILE SPEED: 25.6 MPH

ipid Falls Spd 2018-AM1

Attachment: Rapid Falls Road- Traffic Evaluation (1679 : Review of Traffic Speed Conditions on Rapid Falls Road)

Radar Speed Survey Field Sheet

HARTZOG AND CRABILL INC
Consulting Traffic Engineers
17502 Irvine Blvd., Suite 122 Tustin CA 92680
(714) 731-9455

AGENCY: CITY OF LAGUNA HILLS
STREET: RAPID FALLS
LOCATION: HIDDEN TRAIL TO LOST TRAIL (WEST END)

WEATHER: SUNNY DATE: 8-14-18
ROAD CONDITION: DRY START TIME: 10:00 AM
OBSERVER: CATHY BUENDIA END TIME: 11:00 AM

DIRECTION: <u>WESTBOUND</u>									
MPH	5	10	15	20	25	30	TOTAL		
60									
59									
58									
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51									
50									
49									
48									
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18									
17									
16									
15									

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____
CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>EASTBOUND</u>									
MPH	5	10	15	20	25	30	TOTAL		
60									
59									
58									
57									
56									
55									
54									
53									
52									
51									
50									
49									
48									
47									
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22									
21									
20									
19									
18									
17									
16									
15									

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
	55
	54
	53
	52
	51
	50
	49
	48
	47
	46
	45
	44
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	32
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	28
	27
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	25
	24
	23
	22
	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI
CITY OF LAGUNA HILLS
RAPID FALLS ROAD

DATE: 8/14/2018

TIME: 10 00 AM - 11:00 AM

HIDDEN TRAIL TO LOST TRAIL (WEST END)

SURVEY BY:

C. BUENDIA

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60						X 100.0%
59						X 100.0%
58						X 100.0%
57						X 100.0%
56						X 100.0%
55						X 100.0%
54						X 100.0%
53						X 100.0%
52						X 100.0%
51						X 100.0%
50						X 100.0%
49						X 100.0%
48						X 100.0%
47						X 100.0%
46						X 100.0%
45						X 100.0%
44						X 100.0%
43						X 100.0%
42						X 100.0%
41						X 100.0%
40						X 100.0%
39						X 100.0%
38						X 100.0%
37						X 100.0%
36						X 100.0%
35						X 100.0%
34						X 100.0%
33						X 99.2%
32					X	95.9% }PACE
31					X	93.4% }PACE
30					X	88.5% }PACE
29				X		78.7% }PACE -- -85PCT
28			X			66.4% }PACE
27			X			54.9% }PACE
26		X				37.7% }PACE ---MEAN
25		X				26.2% }PACE
24	X					18.9% }PACE
23	X					10.7% }PACE ---15PCT
22	X					6.6%
21	X					4.1%
20	X					4.1%
19	X					2.5%
18	X					0.8%
17	X					0.0%
16	X					0.0%
15	X					0.0%

UPPER LIMIT 10 MPH PACE: 32 MPH

LOWER LIMIT 10 MPH PACE: 23 MPH

PERCENT OVER PACE: 6.6 %

PERCENT IN PACE: 89.3 %

PERCENT UNDER PACE: 6.6 %

85th PERCENTILE SPEED: 29.6 MPH

MEDIAN SPEED: 26.7 MPH

15th PERCENTILE SPEED: 23.5 MPH

ipid Falls Spd 2018-AM2

Attachment: Rapid Falls Road- Traffic Evaluation (1679 : Review of Traffic Speed Conditions on Rapid Falls Road)

Radar Speed Survey Field Sheet

HARTZOG AND CRABILL INC.
Consulting Traffic Engineers
17592 Irvine Blvd., Suite 122 Irvine, CA 92619
(714) 731-9455

AGENCY: CITY OF LAGUNA
STREET: RAPID FALLS
LOCATION: HIDDEN TRAIL TO LOST TRAIL (EAST END)

WEATHER: SUNNY DATE: 8-14-18
ROAD CONDITION: DRY START TIME: 3:00 PM
OBSERVER: CATHY BUENDIA END TIME: 4:00 PM *Ver*

DIRECTION: WESTBOUND

MPH	NUMBER OF VEHICLES						TOTAL
	5	10	15	20	25	30	
60							
59							
58							
57							
56							
55							
54							
53							
52							
51							
50							
49							
48							
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46							
45							
44							
43							
42							
41							
40							
39							
38							
37							
36							
35							
34							1
33							4
32							3
31							2
30							4
29							7
28							8
27							5
26							4
25							7
24							3
23							
22							
21							
20							
19							
18							
17							
16							
15							

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____
CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: EASTBOUND

MPH	NUMBER OF VEHICLES						TOTAL	CUMULATIVE TOTAL	MPH
	5	10	15	20	25	30			
60									60
59									59
58									58
57									57
56									56
55									55
54									54
53									53
52									52
51									51
50									50
49									49
48									48
47									47
46									46
45									45
44									44
43									43
42									42
41									41
40									40
39									39
38									38
37									37
36							1	1	36
35							2	2	35
34							2	3	34
33							4	7	33
32							4	11	32
31							2	13	31
30							8	21	30
29							7	28	29
28							6	34	28
27							4	38	27
26							3	41	26
25							6	47	25
24							2	49	24
23							2	51	23
22								51	22
21								51	21
20								51	20
19								51	19
18								51	18
17								51	17
16								51	16
15								51	15

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

RAPID FALLS ROAD

DATE: 8/14/2018

TIME: 3:00 PM - 4:00 PM

HIDDEN TRAIL TO LOST TRAIL (EAST END)

SURVEY BY:

C. BUENDIA

CHECKED BY:

JERRY STOCK

SPEED	CUMMULATIVE PERCENT					
	20	40	60	80	100	
60						X 100.0%
59						X 100.0%
58						X 100.0%
57						X 100.0%
56						X 100.0%
55						X 100.0%
54						X 100.0%
53						X 100.0%
52						X 100.0%
51						X 100.0%
50						X 100.0%
49						X 100.0%
48						X 100.0%
47						X 100.0%
46						X 100.0%
45						X 100.0%
44						X 100.0%
43						X 100.0%
42						X 100.0%
41						X 100.0%
40						X 100.0%
39						X 100.0%
38						X 100.0%
37						X 100.0%
36						X 99.0%
35						X 99.0%
34					X	97.1%
33					X	94.3% }PACE
32				X		86.7% }PACE
31				X		80.0% }PACE ---85PCT
30				X		76.2% }PACE
29				X		64.8% }PACE
28			X			51.4% }PACE
27		X				38.1% }PACE ---MEAN
26		X				29.5% }PACE
25		X				22.9% }PACE
24	X					10.5% }PACE ---15PCT
23	X					5.7%
22	X					2.9%
21	X					1.9%
20	X					1.0%
19	X					0.0%
18	X					0.0%
17	X					0.0%
16	X					0.0%
15	X					0.0%

UPPER LIMIT 10 MPH PACE: 33 MPH
 LOWER LIMIT 10 MPH PACE: 24 MPH
 PERCENT OVER PACE: 5.7 %
 PERCENT IN PACE: 88.6 %
 PERCENT UNDER PACE: 5.7 %

85th PERCENTILE SPEED: 31.8 MPH
 MEDIAN SPEED: 27.9 MPH
 15th PERCENTILE SPEED: 24.4 MPH

Rapid Falls Spd 2018-PM1

Attachment: Rapid Falls Road- Traffic Evaluation (1679 : Review of Traffic Speed Conditions on Rapid Falls Road)

Radar Speed Survey Field Sheet

 AGENCY: CITY OF LAGUNA HILLS
 STREET: RAPID FALLS
 LOCATION: HIDDEN TRAIL TO LOST TRAIL (EAST END)

 WEATHER: SUNNY DATE: 8-14-18
 ROAD CONDITION: DRY START TIME: 4:00 PM
 OBSERVER: CATHY BUENDIA END TIME: 5:00 PM VMA

DIRECTION: <u>WESTBOUND</u>						
MPH	NUMBER OF VEHICLES					TOTAL
	5	10	15	20	25	30
60						
59						
58						
57						
56						
55						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
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16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE (BOTH DIRECTIONS) _____

DIRECTION: <u>EASTBOUND</u>						
MPH	NUMBER OF VEHICLES					TOTAL
	5	10	15	20	25	30
60						
59						
58						
57						
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51						
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49						
48						
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22						
21						
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19						
18						
17						
16						
15						

AVERAGE SPEED: _____ CRITICAL SPEED: _____ PACE SPEED: _____

CUMULATIVE TOTAL	MPH
	60
	59
	58
	57
	56
	55
	54
	53
	52
	51
	50
	49
	48
	47
	46
	45
	44
	43
	42
	41
	40
	39
	38
	37
	36
3	35
3	34
3	33
2	32
9	31
12	30
8	29
16	28
12	27
19	26
19	25
12	24
5	23
3	22
1	21
	20
	19
	18
	17
	16
	15

RADAR SPEED DISTRIBUTION SHEET

HCI

CITY OF LAGUNA HILLS

RAPID FALLS ROAD

DATE: 8/14/2018

TIME: 4:00 PM - 5:00 PM

HIDDEN TRAIL TO LOST TRAIL (EAST END)

SURVEY BY:

C. BUENDIA

CHECKED BY:

JERRY STOCK

		CUMMULATIVE PERCENT					
SPEED		20	40	60	80	100	
60						X	100.0%
59						X	100.0%
58						X	100.0%
57						X	100.0%
56						X	100.0%
55						X	100.0%
54						X	100.0%
53						X	100.0%
52						X	100.0%
51						X	100.0%
50						X	100.0%
49						X	100.0%
48						X	100.0%
47						X	100.0%
46						X	100.0%
45						X	100.0%
44						X	100.0%
43						X	100.0%
42						X	100.0%
41						X	100.0%
40						X	100.0%
39						X	100.0%
38						X	100.0%
37						X	100.0%
36						X	100.0%
35						X	99.2%
34						X	96.9%
33						X	94.5%
32						X	92.2%
31						X	90.6%
30					X		83.6% }PACE
29					X		74.2% }PACE -- 85PCT
28				X			68.0% }PACE
27			X				55.5% }PACE
26			X				46.1% }PACE --- MEAN
25		X					31.3% }PACE
24		X					16.4% }PACE
23	X						7.0% }PACE --- 15PCT
22	X						3.1% }PACE
21	X						0.8%
20	X						0.0%
19	X						0.0%
18	X						0.0%
17	X						0.0%
16	X						0.0%
15	X						0.0%

UPPER LIMIT 10 MPH PACE:	31	MPH
LOWER LIMIT 10 MPH PACE:	22	MPH
PERCENT OVER PACE:	9.4	%
PERCENT IN PACE:	89.8	%
PERCENT UNDER PACE:	0.8	%

85th PERCENTILE SPEED:	30.2	MPH
MEDIAN SPEED:	26.4	MPH
15th PERCENTILE SPEED:	23.9	MPH

ipid Falls Spd 2018-PM2

Collision History

CITY OF LAGUNA HILLS
5-YEAR CITYWIDE SWITRS COLLISION DATABASE
RAPID FALLS ROAD, FROM HIDDEN TRAIL ROAD TO LOST TRAIL DRIVE
JAN. 1, 2013 - MAY 31, 2018

CASE ID	COLL. DATE	COLL. TIME	PRIMARY ROAD	SECONDARY ROAD	DIST.	DIR.	INTERS.	WEATH. 1	COLL. SEVERITY	PRIM. COLL. FACT.	PCF VIOL. CAT.	PCF VIOL.	HIT AND RUN	TYPE OF COLL.	MOTOR VEHICLE INVOLVED WITH	RO. SUI
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No Collisions Reported In This Segment.

NOTES:

Weather 1 Collision Severity

A - Clear 1 - Fatal
 B - Cloudy 2 - Injury (Severe)
 C - Raining 3 - Injury (Other Visible)
 D - Snowing 4 - Injury (Complaint of Pain)
 E - Fog 0 - PDO (Property Damage Only)
 F - Other
 G - Wind
 - - Not Stated

Primary Collision Factor

A - (Vehicle) Code Violation
 B - Other Improper Driving
 C - Other Than Driver
 D - Unknown
 E - Fell Asleep
 - - Not Stated

PCF Violation Category

01 - Driving or Bicycling Under Influence
 02 - Impeding Traffic
 03 - Unsafe Speed
 04 - Following Too Closely
 05 - Wrong Side of Road
 06 - Improper Passing
 07 - Unsafe Lane Change
 08 - Improper Turning
 09 - Automobile ROW
 10 - Pedestrian ROW
 11 - Pedestrian Violation
 12 - Traffic Signals and Signs
 13 - Hazardous Parking
 14 - Lights
 15 - Brakes
 16 - Other Equipment
 17 - Other Hazardous Violation
 18 - Other Than Driver (or Ped)
 19 -
 20 -
 21 - Unsafe Starting or Backing
 22 - Other Improper Driving
 23 - Pedestrian or "Other" Under the Influence
 24 - Fell Asleep
 00 - Unknown
 - - Not Stated

Hit and Run

F - Felony
 M - Misdemeanor
 N - Not Hit & Run

Type of Collision

A - Head-On
 B - Sideswipe
 C - Rear-End
 D - Broadside
 E - Hit Object
 F - Overturned
 G - Vehicle/Pedestrian
 H - Other
 - - Not Stated

Motor Vehicle Involved With:

A - Non-Collision
 B - Pedestrian
 C - Other Motor Vehicle
 D - Motor Vehicle on Other Roadway
 E - Parked Motor Vehicle
 F - Train
 G - Bicycle
 H - Animal
 I - Fixed Object
 J - Other Object
 - - Not Stated

Road Surface

A - Dry
 B - Wet
 C - Snowy or Icy
 D - Slippery
 - - Not Stated



City of Laguna Hills

Traffic Commission

Staff Report

DATE: September 19, 2018
TO: Traffic Commissioners
FROM: Amber Shah
Associate Engineer
ISSUE: Radar Speed Trailer

RECOMMENDATION: That the Traffic Commission Receive and File the Report.

ATTACHMENTS:

- September Radar Trailer Calendar

CITY OF LAGUNA HILLS

SEPTEMBER 2018

RADAR TRAILER SCHEDULE (RAINY DAYS EXCLUDED)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	HOLIDAY	3 Santa Vittoria N/O Ridge Route 25 MPH	4 Alicia Plwy W/O Costeau 45 MPH	5 Pike W/O Orellano 25 MPH	6	7
8						
9	10	11	12	13	14	15
16	17	18 Santa Vittoria N/O Ridge Route 25 MPH	19 Gallup Circle (25365) 25 MPH	20 Pike W/O Orellano 25 MPH	21	22
23	24	25	26	27	28	29

Attachment: September Radar Trailer Calendar (1678 : Radar Speed Trailer)

CITY OF LAGUNA HILLS

OCTOBER 2018

RADAR TRAILER SCHEDULE (RAINY DAYS EXCLUDED)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Nellie Gail E/O Empty Saddle 25 MPH	3 Alicia Pkwy E/O Wilkes 45 MPH	4 Westridge (27192) 25 MPH	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23 Aliso Hills W/O Alameda 35 MPH	24 Bridlewood S/O Laurel Crest 25 MPH	25 Santa Vittoria N/O Ridge Route 30 MPH	26	27
28	29	30	31			

Attachment: September Radar Trailer Calendar (1678 : Radar Speed Trailer)

CITY OF LAGUNA HILLS

NOVEMBER 2018

RADAR TRAILER SCHEDULE (RAINY DAYS EXCLUDED)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6 Bridlewood S/O Laurel Crest 25 MPH	7 Woodbluff S/O Middleridge 25 MPH	8 Nellie Gail E/O Empty Saddle 25 MPH	9	10
11	12 HOLIDAY	13	14	15	16	17
18	19	20 Glen Canyon W/O Nellie Gail 25 MPH	21 Lost Colt E/O Beargrass 25 MPH	22 THANKSGIVING	23 HOLIDAY	24
25	26	27	28	29	30	

Attachment: September Radar Trailer Calendar (1678 : Radar Speed Trailer)