



TO: Mayor and Councilmembers
FROM: Charles W. Ebeling, Public Works Director
CONTACT: Derek Rapp, Acting Traffic Engineer
SUBJECT: Updated and New Speed Limits at Various Locations

RECOMMENDATION:

Adopt Resolution No. 21- _ entitled, "A Resolution of the City Council of the City of Goleta, California, Establishing Speed Limits at Various Locations throughout the City."

BACKGROUND:

For law enforcement to enforce speed limits using radar or similar devices, the City must approve engineering and traffic surveys in accordance with requirements established by the California Vehicle Code and the California Manual on Uniform Traffic Control Devices. These requirements are in place to avoid creation of speed traps where posted speeds are significantly below what drivers would expect based on perceived conditions and the speed of other vehicles. Once adopted, the speed surveys are valid for a certain number of years. Several of the speed limits on key roadway segments within the City are expired and must be renewed.

DISCUSSION:

Engineering and traffic surveys (Attachment 1) have been performed to provide factual information about present speed conditions on certain streets within the city limits and are the basis for the establishment and enforcement of speed limits. These surveys will authorize law enforcement authorities to deploy radar or similar devices for enforcement. The law further specifies that these surveys be conducted periodically to assure that posted speed limits are kept current. The surveys must be conducted:

- Every five (5) years; or
- Every seven (7) years if certain equipment calibration and officer training requirements are satisfied; or
- Every ten (10) years if certain equipment calibration and officer training requirements are satisfied and no significant changes in roadway or traffic conditions have occurred.

Speed limits are typically established at or near the Critical Speed, also known as the Prevailing Speed, which is determined by sampling the existing speeds of motorists. The Critical Speed is defined as the 85th percentile speed, or the speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions past a monitored point. This speed is the primary guide in determining what the majority of drivers believe is safe and reasonable. The speed limit normally should be established at the nearest five mile per hour increment to the 85th percentile speed, although engineering judgment may indicate the need for a further reduction of five miles per hour. Such judgment would depend on accident records, conditions not readily apparent to motorists, density of fronting residential land uses, and/or pedestrian and bicyclist safety. Speed limits set on this basis provide law enforcement officials with a means of controlling reckless or unreliable drivers who do not conform to what the majority of drivers find reasonable.

A summary table of the results of the engineering and traffic surveys that have been conducted is provided below.

RADAR SPEED SURVEY LOCATIONS

Roadway Segment	Survey Limits	Posted Speed	85th % Speed	New Speed	Survey Date
Calle Real	Winchester Canyon Rd to 300' E/O Brandon Dr	30	38	35	2/21/2021
Calle Real	Valdez Ave to 1,000' W/O Fairview Ave	45	44	40	5/29/2019
Cathedral Oaks Rd	Calle Real to Winchester Canyon Rd	45	39	40	5/28/2019

The speed limits in the table above are valid for 7 years. The speed limits can be extended to 10 years if the engineer determines that no significant changes have been made to the roadway or the surrounding land uses. Staff recommends that the City Council approve the attached resolution adopting the proposed speed limits for each of these roadway segments (Attachment 2).

FISCAL IMPACTS:

The fiscal impacts associated with the installation of the speed limit signage would be approximately \$1,500 and would be funded through the existing street maintenance budget. There will be minimal annual maintenance necessary to maintain the signs and pavement markings.

ALTERNATIVES:

The Council could choose not to adopt the attached resolution, in which case the posted speed limits on the subject roadway segments will not be enforceable by the use of radar and only enforceable by pacing the vehicle which is more time consuming.

Reviewed By:

Legal Review By:

Approved By:



Kristine Schmidt
Assistant City Manager



Michael Jenkins
City Attorney



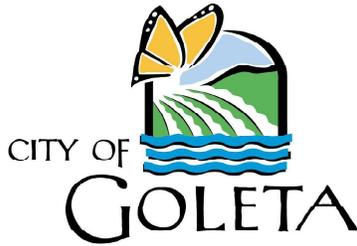
Michelle Greene
City Manager

ATTACHMENTS:

1. Engineering & Traffic Surveys
2. A Resolution of the City Council of the City of Goleta, California, Establishing Speed Limits at Various Locations Throughout the City

ATTACHMENT 1

Engineering & Traffic Surveys



ENGINEERING & TRAFFIC SURVEY

Street Name:	<u>Calle Real</u>	Survey Date:	<u>2/21/2021</u>
	<u>From Winchester Canyon Rd.</u>		
From/To:	<u>to 300' East of Brandon Dr</u>	Street Width:	<u>38'</u>
Direction:	<u>EB/WB</u>	# of Vehicle Lanes:	<u>1 EB, 1 WB</u>
Street Classification:	<u>Minor Arterial</u>	On-street parking:	<u>Both Sides</u>
Adjacent street segment speed limits:	<u>45 MPH East of Segment</u>	Bicycle Lanes:	<u>Partial</u>
	<u>Not Posted West of Segment</u>	Pedestrian Sidewalks:	<u>Mostly Both Sides</u>
Adjacent Land Use:	<u>Residential, Non-Fronting Res</u>		

Highway Conditions, Roadside Characteristics, and Traffic Observations:

Two lane roadway with no median. Southern Sidewalk ends east of Rochester Way. Bike Lanes between Hempstead Ave and Brandon Dr.

Posted Speed Limit (MPH)
30

10 MPH Pace Speed
29 to 38

50th Percentile (MPH)
33

85th Percentile (MPH)
38

Average Daily Traffic
-

Length (Miles)
0.68

of Accidents
8

Accident Rate (a/mvm)
-

Accident Data (Years)
3

Average Accident Rate: a/mvm

State (a/mvm)
N/A

District 5 (a/mvm)
2.33

City (a/mvm)
N/A

Speed Limit Justification:

Based on the 85th percentile speed, this segment would typically be set at 35 mph or 40 mph. The lesser of which is recommended due to safety concerns for pedestrians along this segment of the roadway. The recommended speed is 35 mph.

RECOMMENDED SPEED LIMIT: **35 MPH**

TRAFFIC ENGINEER: Rapp, Derek
Derek Rapp, T.E. #2026

Digitally signed by Rapp, Derek
DN: cn=Rapp, Derek, o=Internal,
ou=Users, ou=stintec, dc=ads
Date: 2021.03.01 14:46:31-0800

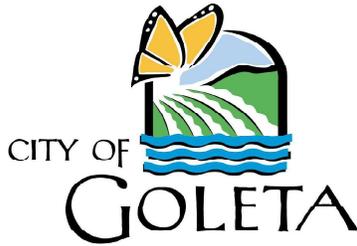
DATE: 3/1/2021

This Engineering and Traffic Survey (E&TS) was prepared on 07/15/2019 per Section 627 and other applicable sections of the California Vehicle Code (CVC) in accordance with methods determined by the State of California Department of Transportation. Section 627 of the CVC defines that an E&T shall include consideration of all of the following elements: (1) Prevailing Speed, (2) Accident records, (3) Conditions not readily apparent to the driver, (4) Residential density, and (5) Pedestrian and bicycle safety. Based on meeting the provisions of CVC 40802.a, this E&TS shall be valid for 5 years and expire on 8/20/2024; or based on meeting the provisions of CVC 40802.c.1, this E&TS shall be valid for 7 years and expire on 8/20/2026; or based on meeting the provisions of CVC 40802.c.2.B.i.II, this E&TS shall be valid for 10 years and expire on 8/20/2029

Date: _____

By, _____
Deborah Lopez

City Clerk



ENGINEERING & TRAFFIC SURVEY

Street Name:	<u>Calle Real</u>	Survey Date:	<u>5/29/2019</u>
From/To:	<u>From Valdez Ave to 1000' West of Fairview Ave</u>	Street Width:	<u>64'</u>
Direction:	<u>EB/WB</u>	# of Vehicle Lanes:	<u>1 EB, 1 WB</u>
Street Classification:	<u>Minor Arterial</u>	On-street parking:	<u>None</u>
Adjacent street segment speed limits:	<u>35 MPH East of Segment 45 MPH West of Segment</u>	Bicycle Lanes:	<u>Both Sides</u>
Adjacent Land Use:	<u>Commercial, Non-Fronting Res</u>	Pedestrian Sidewalks:	<u>North Side Only</u>

Highway Conditions, Roadside Characteristics, and Traffic Observations:

Two lane roadway with two-way left turn lanes west of Vega Dr and raised median East of Vega Dr. Bike lanes both sides. Sidewalk on North Side only.

Posted Speed Limit (MPH)
45

10 MPH Pace Speed
33 to 42

50th Percentile (MPH)
38

85th Percentile (MPH)
44

Average Daily Traffic
16,400

Length (Miles)
0.26

of Accidents
0

Accident Rate (a/mvm)
0.00

Accident Data (Years)
3

Average Accident Rate: a/mvm

State (a/mvm)
N/A

District 5 (a/mvm)
2.33

City (a/mvm)
N/A

Speed Limit Justification:

Based on the 85th percentile speed, this segment would typically be set at 40 or 45 mph. The lesser is recommended due to high numbers of bicyclists along this segment of the roadway. The recommended speed is 40 mph.

RECOMMENDED SPEED LIMIT: **40 MPH**

TRAFFIC ENGINEER:

DESIGNED BY: Derek Rapp
CHECKED BY: Derek Rapp, T.E. #2026
DATE: 2019-05-29 14:45:00-0800
Derek Rapp, T.E. #2026

DATE:

3/1/2021

This Engineering and Traffic Survey (E&TS) was prepared on 07/15/2019 per Section 627 and other applicable sections of the California Vehicle Code (CVC) in accordance with methods determined by the State of California Department of Transportation. Section 627 of the CVC defines that an E&T shall include consideration of all of the following elements: (1) Prevailing Speed, (2) Accident records, (3) Conditions not readily apparent to the driver, (4) Residential density, and (5) Pedestrian and bicycle safety. Based on meeting the provisions of CVC 40802.a, this E&TS shall be valid for 5 years and expire on 8/20/2024; or based on meeting the provisions of CVC 40802.c.1, this E&TS shall be valid for 7 years and expire on 8/20/2026; or based on meeting the provisions of CVC 40802.c.2.B.i.II, this E&TS shall be valid for 10 years and expire on 8/20/2029

Date: _____

By, Deborah Lopez

City Clerk



ENGINEERING & TRAFFIC SURVEY

Street Name:	<u>Cathedral Oaks Rd</u>	Survey Date:	<u>5/28/2019</u>
From/To:	<u>From Calle Real to Winchester Canyon Rd</u>	Street Width:	<u>42'</u>
Direction:	<u>NB/SB</u>	# of Vehicle Lanes:	<u>1 NB, 1 SB, Lt's</u>
Street Classification:	<u>Minor Arterial</u>	On-street parking:	<u>None</u>
Adjacent street segment speed limits:	<u>Fwy Off-Ramps South of Segment 45 MPH North of Segment</u>	Bicycle Lanes:	<u>Both Sides</u>
Adjacent Land Use:	<u>Agriculture, Non-Fronting Res</u>	Pedestrian Sidewalks:	<u>East Side Only</u>

Highway Conditions, Roadside Characteristics, and Traffic Observations: Two lane roadway with no medians. The entire segment has left turn lanes. Bike lanes both sides. Class 1 Bike Lane on the West Side.

Posted Speed Limit (MPH)	10 MPH Pace Speed		50th Percentile (MPH)	85th Percentile (MPH)
45	29	to	38	33
Average Daily Traffic	Length (Miles)	# of Accidents	Accident Rate (a/mvm)	Accident Data (Years)
-	0.43	1	-	3
Average Accident Rate: a/mvm	State (a/mvm)	District 5 (a/mvm)	City (a/mvm)	
	N/A	2.33	N/A	

Speed Limit Justification: Based on the 85th percentile speed, this segment would typically be set at 40 mph. No reduction is recommended. The recommended speed is 40 mph.

RECOMMENDED SPEED LIMIT: 40 MPH

TRAFFIC ENGINEER: Rapp, Derek Digitally signed by Rapp, Derek
DN: cn=Rapp, Derek, o=Internal,
ou=users, ou=stantec, dc=corp, dc=ads
Date: 2021.03.01 14:47:21-0800 DATE: 3/1/2021

Derek Rapp, T.E. #2026

This Engineering and Traffic Survey (E&TS) was prepared on 07/15/2019 per Section 627 and other applicable sections of the California Vehicle Code (CVC) in accordance with methods determined by the State of California Department of Transportation. Section 627 of the CVC defines that an E&T shall include consideration of all of the following elements: (1) Prevailing Speed, (2) Accident records, (3) Conditions not readily apparent to the driver, (4) Residential density, and (5) Pedestrian and bicycle safety. Based on meeting the provisions of CVC 40802.a, this E&TS shall be valid for 5 years and expire on 8/20/2024; or based on meeting the provisions of CVC 40802.c.1, this E&TS shall be valid for 7 years and expire on 8/20/2026; or based on meeting the provisions of CVC 40802.c.2.B.i.II, this E&TS shall be valid for 10 years and expire on 8/20/2029

Date: _____ By, _____ City Clerk
Deborah Lopez

ATTACHMENT 2

Resolution 21-____, entitled “A Resolution of the City Council of the City of Goleta, California, Establishing Speed Limits at Various Locations Throughout the City”

RESOLUTION NO. 21-XXX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GOLETA, CALIFORNIA, ESTABLISHING SPEED LIMITS AT VARIOUS LOCATIONS THROUGHOUT THE CITY

WHEREAS, Section 21351 of the California Vehicle Code authorizes the City to place and maintain, or cause to be placed and maintained, such appropriate signs, signals or traffic control devices as may be necessary properly to indicate and carry out the provisions of the Vehicle Code or local traffic ordinances, or to warn or guide traffic; and

WHEREAS, Section 22358 of the California Vehicle Code and Section 10.01.290 of the City’s Municipal Code authorizes the City to declare prima facie speed limits to facilitate the orderly movement of traffic; and

WHEREAS, Engineering and Traffic Surveys have been conducted in accordance with California Vehicle Code and California Department of Transportation requirements, said Engineering and Traffic Survey being identified as the Speed Survey, dated May 28 and 29, 2019, and February 21, 2021.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GOLETA, AS FOLLOWS:

SECTION 1.

Established speed limits at the locations described below are hereby rescinded and the following speed limits are established:

Roadway Segment	Survey Limits	85th % Speed	New Speed	Survey Date
Calle Real	Winchester Canyon Rd to 300’ E/O Brandon Dr	38	35	2/21/2021
Calle Real	Valdez Ave to 1,000’ W/O Fairview Ave	44	40	5/29/2019
Cathedral Oaks Rd	Calle Real to Winchester Canyon Rd	39	40	5/28/2019

SECTION 2.

That the City Manager is hereby directed to provide for the installation and maintenance of appropriate signs and markings for the locations hereinabove identified as necessary.

SECTION 3.

The City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

PASSED, APPROVED AND ADOPTED this 6th day of April 2021.

PAULA PEROTTE, MAYOR

ATTEST:

APPROVED AS TO FORM:

DEBORAH S. LOPEZ
CITY CLERK

MICHAEL JENKINS
CITY ATTORNEY

STATE OF CALIFORNIA)
COUNTY OF SANTA BARBARA) ss.
CITY OF GOLETA)

I, DEBORAH S. LOPEZ, City Clerk of the City of Goleta, California, DO HEREBY CERTIFY that the foregoing Resolution No. 21-__ was duly adopted by the City Council of the City of Goleta at a regular meeting held on the 6th day of April, 2021 by the following vote of the Council:

AYES:

NOES:

ABSENT:

(SEAL)

DEBORAH S. LOPEZ
CITY CLERK

RADAR SPEED SURVEY LOCATIONS

Roadway Segment	Survey Limits	85th % Speed	New Speed	Survey Date
Calle Real	Winchester Canyon Rd to 300' E/O Brandon Dr	38	35	2/21/2021
Calle Real	Valdez Ave to 1,000' W/O Fairview Ave	44	40	5/29/2019
Cathedral Oaks Rd	Calle Real to Winchester Canyon Rd	39	40	5/28/2019