

## SAFETY COMMISSION AGENDA STATEMENT

Item 2  
Meeting Date 11/06/19

**ITEM TITLE:** RESOLUTION OF THE SAFETY COMMISSION OF THE CITY OF CHULA VISTA RECOMMENDING THAT THE CHULA VISTA CITY COUNCIL INCREASE THE EXISTING SPEED LIMITS ON TELEGRAPH CANYON ROAD: 1) BETWEEN HALECREST DRIVE AND CREST DRIVE/OLEANDER AVENUE FROM 40 MPH TO 45 MPH AND 2) BETWEEN PASEO DEL REY AND OLD TELEGRAPH CANYON ROAD FROM 45 MPH TO 50 MPH, AND THAT SCHEDULE X OF THE REGISTER MAINTAINED IN THE OFFICE OF THE CITY ENGINEER BE AMENDED TO REFLECT THESE SPEED LIMITS

**SUBMITTED BY:**  Principal Traffic Engineer

Staff completed an Engineering and Traffic Survey on Telegraph Canyon Road in accordance with the California Vehicle Code, which indicates that the posting of speed limits that are not the maximum or standard prima facie speed limits be determined by an Engineering and Traffic Survey (E&TS) for each street with a posted speed limit within the City. Based on the results of the E&TS and by consolidating some short segments, staff has determined that the speed limits on Telegraph Canyon Road increase: 1) between Halecrest Drive and Crest Drive/Oleander Avenue from 40 mph to 45 mph and 2) between Paseo Del Rey and Old Telegraph Canyon Road from 45 mph to 50 mph (see Attachment 1, Location Plat).

**RECOMMENDATION:** That the Safety Commission adopt the resolution.

### DISCUSSION:

The California Vehicle Code (CVC) establishes minimum and maximum prima facie speed limits for all streets in the State. The minimum prima facie speed limit is 25 miles per hour (MPH) for specific roadways and the maximum speed limit is 65 MPH (55 MPH for undivided roads) and an Engineering and Traffic Survey (E&TS) is required to change the prima facie speed limit from these preset limits for any City roadway.

The CVC requires that local agencies review changes in local speed limits every five to ten years to determine if the existing street segment speed limits require updating due to the age of the E&TS or changes in roadway and traffic conditions. In April 2019, staff completed an E&TS for the following segments and determined which speed limits are to be maintained and which were to have proposed increases.

The existing E&TS segments and the proposed speed limits are as follows:

			Existing Speed Limit	Proposed Speed Limit	Segment Length
<b>1</b>	<b>Halecrest Dr</b>	<b>Crest Dr/ Oleander Ave</b>	<b>40</b>	<b>45</b>	<b>0.33 miles</b>
2	Crest Dr/Oleander Ave	Paseo Del Rey	45	45	0.15 miles
<b>3</b>	<b>Paseo Del Rey</b>	<b>Old Telegraph Canyon Rd</b>	<b>45</b>	<b>50</b>	<b>0.13 miles</b>
4	Old Telegraph Canyon Rd	Paseo Ladera	50	50	0.73 miles
5	Paseo Ladera	Otay Lakes Rd	50	50	2.14 miles

Staff recommends eliminating a segment and combining another segment to coincide with the existing traffic signals. The proposed segments would be as follows:

			Speed Limit	Segment Length
A	Halecrest Dr	Paseo Del Rey	45	0.48 miles
B	Paseo Del Rey	Otay Lakes Rd	50	3.00 miles

City staff completed a speed survey for above segments in accordance with the California Vehicle Code. As described in the California Vehicle Code, the survey shall include:

- (1) Prevailing speeds as determined by traffic engineering measurements;
- (2) Accident records;
- (3) Traffic/roadside conditions not readily apparent to the driver.

Physical Conditions

The following information describes the existing conditions along all segments of Telegraph Canyon Road:

- Six-lane Prime Arterial.
- Length/Width – 3.5 miles long and 100’ to 122’ wide.
- Average Daily Traffic: 50,844 (2018)
- Number of Lanes: 6 lanes (3 per direction).
- Existing Speed Limits – Posted 40, 45 and 50 mph.
- 85% Percentile Speed: 1) Halecrest Dr to Crest Dr/Oleander Ave is 45 mph. 2) Crest Dr/Oleander Ave to Paseo Del Rey is 47 mph. 3) Paseo Del Rey to Otay Lakes Rd is 51 mph.
- Striping – Six lanes of traffic.

- Parking – Parking is not allowed along entire segment.
- Bike Lanes in both directions.
- Horizontal Alignment – Horizontal Curve with a radius of 1600’ over a length of 733’ yields a design speed of 50 mph.
- Vertical Alignment – Less than a 2% grade change.
- Accident Rate History – The accident rate at this segment is 0.37 accidents per million vehicle miles, which is lower than the rate of 1.36 for similar roadways in the State of California (2016).

Traffic Calming

Segments 1 and 3 are the only segments with a proposed speed increase. Given their short length and major roadway classification, no traffic calming measures are feasible. The MUTCD recommends that roadway segments be a minimum of 0.25 miles; therefore, a speed increase on Segment 1 and merging it with Segment 2 as well as a speed increase on Segment 3 and merging it with Segments 4 and 5 are the recommended approach.

<b>Traffic Calming Measure</b>	<b>Applicable?</b>	<b>Feasible?</b>	<b>Implemented?</b>
Police SAM Trailer	Y	N	N
Large Signs/Legends	Y	N	N
Narrowed Lanes	N	N	N
Striped Chicanes	N	N	N
Permanent Feedback Sign	N	N	N
Speed Cushions	N	N	N
Curb Extensions	N	N	N
Traffic Circles/Diverters	N	N	N

Speed Enforceability

If the proposed speed increase is not approved, the following are the only means of enforcing speed on Segments 1 and 3:

- Basic Speed Law: police car matches speed of vehicle and determines that speed is unsafe for current conditions. Infeasible due to insufficient police availability and the segment is too short.
- Maximum Speed Law: use RADAR/LiDAR methods to enforce speed limit of 65 mph.

If the proposed speed limit is approved, police can use RADAR/LiDAR to enforce the approved posted speed limit.

**CONCLUSION:**

When speed limits are appropriately established the following objectives are achieved:

- Meaningful, unambiguous enforcement
- Voluntary public compliance
- Clear identification of the unreasonable violator
- Elimination of unjustifiable “tolerances” of higher speed travel

Based on the 85<sup>th</sup> percentile speed of the roadway, as well as a low collision rate outlined in the Engineering/Traffic Survey, staff has is recommending the speed limit increases and modifying

the segments to be from a traffic signal to another traffic signal. It is also recommended that a speed survey segment not be less than 0.25 mi.

Should the City Council establish the proposed 45 mph and 50 mph speed limits, Schedule X of the register maintained in the Office of the City Engineer be amended to reflect the speed limit increase:

- Telegraph Canyon Road, between Halecrest Drive and Crest Drive/Oleander Avenue, proposed Speed Limit Increase to 45 mph.
- Telegraph Canyon Road, between Paseo Del Rey and Old Telegraph Canyon Road, proposed Speed Limit Increase to 50 mph.

**FISCAL IMPACT:**

The increase of the speed limit would require the posting of new speed limit signs and speed limit legends. This work will be funded by an existing Traffic Engineering Capital Improvement Project, TF-332, Signing and Striping Program.

Attachments:

1. Location Plats
2. Speed Surveys



# LOCATION MAP

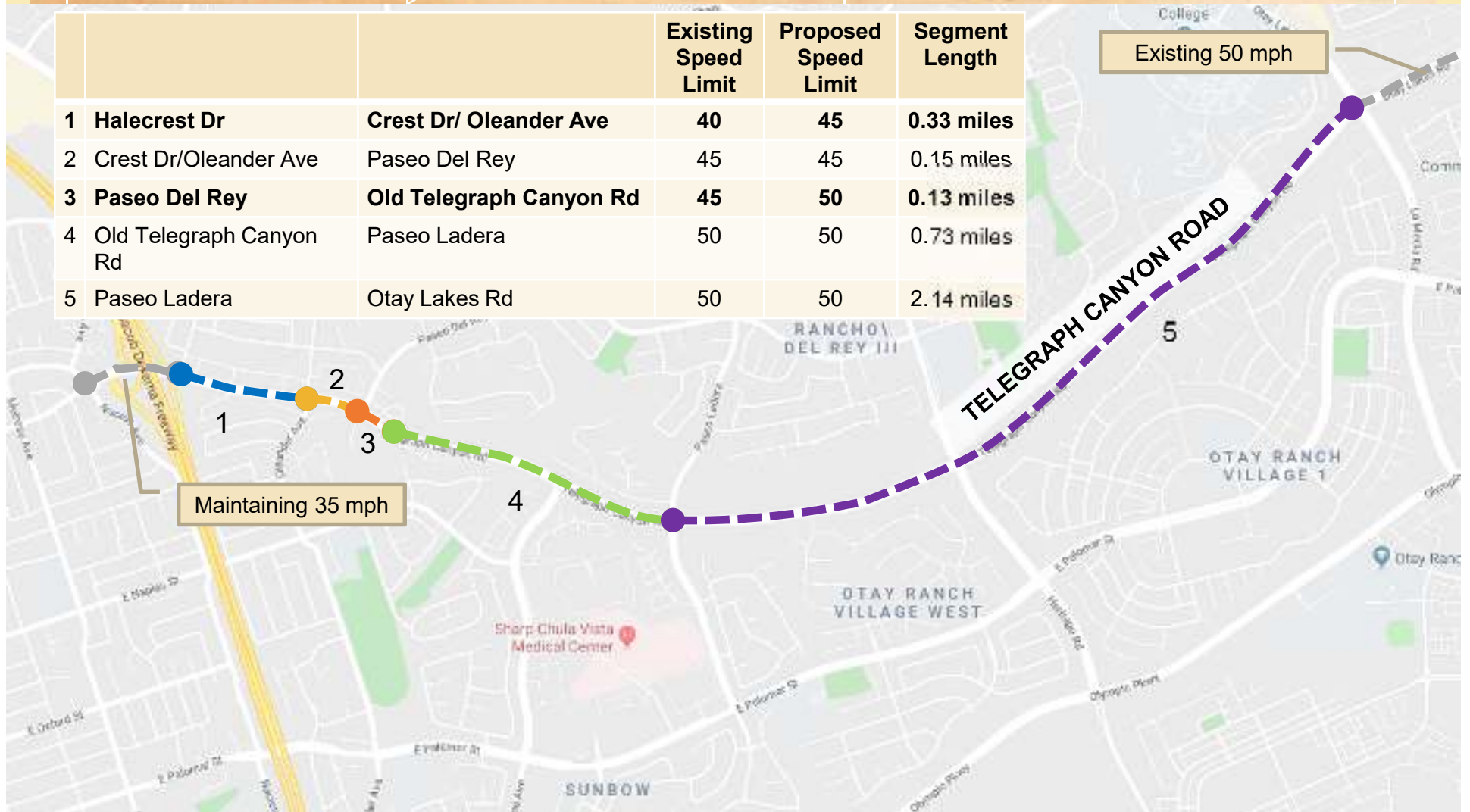






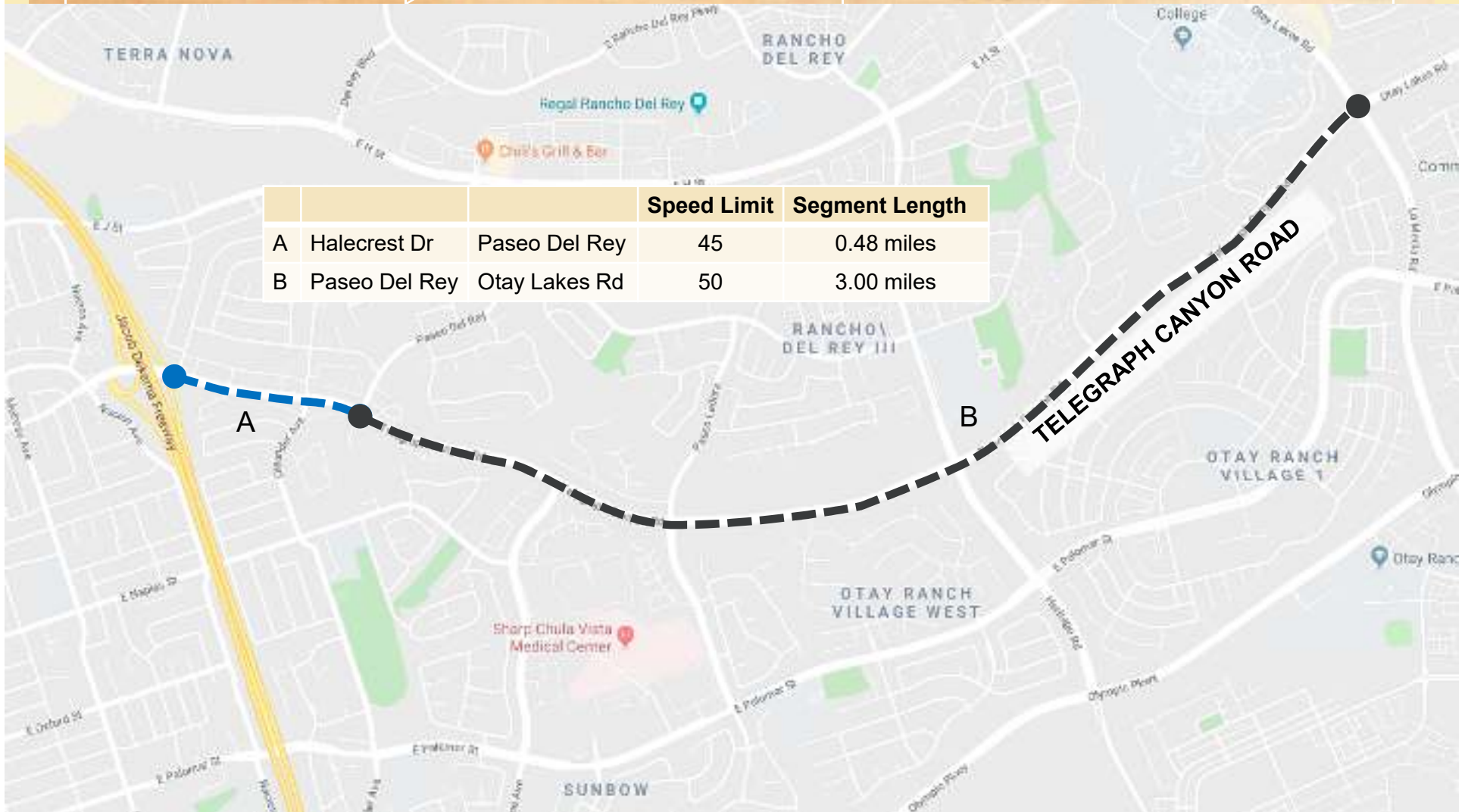
# LOCATION MAP AND EXISTING SPEED LIMITS

			Existing Speed Limit	Proposed Speed Limit	Segment Length
1	Halecrest Dr	Crest Dr/ Oleander Ave	40	45	0.33 miles
2	Crest Dr/Oleander Ave	Paseo Del Rey	45	45	0.15 miles
3	Paseo Del Rey	Old Telegraph Canyon Rd	45	50	0.13 miles
4	Old Telegraph Canyon Rd	Paseo Ladera	50	50	0.73 miles
5	Paseo Ladera	Otay Lakes Rd	50	50	2.14 miles





# LOCATION MAP WITH PROPOSED SPEED LIMITS



# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Telegraph Canyon Rd (Halecrest Dr - Crest Dr/Oleander Ave)

DATE: 4/8/2019 SURVEY SITE: East of Canyon Plaza signalized entrance POSTED SPEED: 40

TIME START: 2:02pm TIME END: 2:30pm WEATHER: Sunny

MPH	DIRECTION: <u>EB</u> = 0 <u>WB</u> = /																TOTAL	%	CUM %
	5				10				15				20						
55																	0	0%	100%
54																	0	0%	100%
53																	0	0%	100%
52																	0	0%	100%
51																	0	0%	100%
50																	0	0%	100%
49	0	0															2	2%	100%
48	0																1	1%	98%
47	0	0															2	2%	97%
46	0	0	0	0	0	/	/										7	7%	95%
45	0	0	0	0	/	/											6	6%	88%
44	0	0	0	0	0	/	/	/									8	8%	83%
43	0	0	0	0	/	/	/	/									8	8%	75%
42	0	0	0	0	0	0	/	/	/								9	9%	67%
41	0	0	0	0	0	/	/	/	/	/	/						11	11%	59%
40	0	/	/	/	/	/	/										7	7%	48%
39	0	0	0	0	0	0	/	/	/								9	9%	41%
38	0	0	/	/	/	/	/	/									8	8%	33%
37	0	/	/														3	3%	25%
36	0	0	0	0	0	/	/										7	7%	22%
35	0	/	/														3	3%	15%
34	/	/															2	2%	13%
33	/	/	/	/													4	4%	11%
32	/																1	1%	7%
31	/	/															2	2%	6%
30	/																1	1%	4%
29	/	/															2	2%	3%
28	/																1	1%	1%
27																	0	0%	0%
26																	0	0%	0%
25																	0	0%	0%
24																	0	0%	0%
23																	0	0%	0%
22																	0	0%	0%
21																	0	0%	0%
20																	0	0%	0%
19																	0	0%	0%
18																	0	0%	0%
<b>RECORDER: Nancy Cen</b>																<b>TOTAL NUMBER OF VEHICLES: 104</b>			

85TH PERCENTILE: 45 mph



# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Telegraph Canyon Rd (Crest Dr/Oleander Ave - Old Telegraph Canyon Rd)

DATE: 4/8/2019 SURVEY SITE: Crest Dr/Oleander Ave - Paseo Del Rey POSTED SPEED: 45

TIME START: 2:59pm TIME END: 3:19pm WEATHER: Sunny

MPH	DIRECTION: <u>EB</u> = 0 <u>WB</u> = \																TOTAL	%	CUM %
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80			
60																	0	0%	100%
59																	0	0%	100%
58																	0	0%	100%
57																	0	0%	100%
56																	0	0%	100%
55	/																1	1%	100%
54	0																1	1%	99%
53	/																1	1%	98%
52	/	/	0														3	3%	98%
51																	0	0%	95%
50	/	0	0														3	3%	95%
49	/	/	0														3	3%	93%
48	/	/	0	0													4	3%	90%
47	/	/	0	0	0												5	4%	87%
46	/	/	/	0	0	0											6	5%	83%
45	/	/	/	/	0	0	0										7	6%	78%
44	/	/	0	0	0												5	4%	72%
43	/	/	/	/	/	0	0	0									8	7%	68%
42	/	/	/	/	/	/	0	0	0	0	0	0					12	10%	61%
41	/	/	/	/	0	0	0										7	6%	51%
40	/	/	/	/	0	0	0	0	0								9	8%	45%
39	/	/	/	/	/	/	0	0	0	0	0						11	9%	38%
38	/	/	/	0	0												5	4%	28%
37	/	/	0	0	0												5	4%	24%
36	/	/	/	/	0	0	0	0	0	0	0	0					12	10%	20%
35	/	/	0	0	0												5	4%	10%
34	/	0															2	2%	6%
33	/	/	0	0													4	3%	4%
32	/																1	1%	1%
31																	0	0%	0%
30																	0	0%	0%
29																	0	0%	0%
28																	0	0%	0%
27																	0	0%	0%
26																	0	0%	0%
25																	0	0%	0%
24																	0	0%	0%
23																	0	0%	0%
22																	0	0%	0%
21																	0	0%	0%
<b>RECORDER:</b> Nancy Cen																	<b>TOTAL NUMBER OF VEHICLES:</b> 120		

85th Percentile: 47mph

# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Telegraph Canyon Rd (Paseo Del Rey - Medical Center Dr)

DATE: 4/8/2019 SURVEY SITE: Paseo Del Rey - Old Telegraph Canyon Rd POSTED SPEED: 45

TIME START: 3:24pm TIME END: 3:49pm WEATHER: Sunny

MPH	DIRECTION: <u>EB</u> = 0 <u>WB</u> = \																TOTAL	%	CUM %
	5				10				15				20						
60																	0	0%	100%
59																	0	0%	100%
58																	0	0%	100%
57																	0	0%	100%
56	/																1	1%	100%
55	/																1	1%	99%
54	/																1	1%	98%
53	0																1	1%	98%
52	0	0	/	/	/												5	4%	97%
51	0	0	0	/	/	/	/										7	5%	93%
50	0	/	/														3	2%	88%
49	0	0	0	0	/	/	/	/	/								9	7%	86%
48	0	0	0	/	/	/	/	/									8	6%	79%
47	0	0	0	/	/	/	/	/	/								9	7%	73%
46	0	0	0	0	0	0	0	0	0	0	/	/	/	/	/	/	16	12%	66%
45	0	0	0	0	0	0	/	/	/	/	/						11	8%	54%
44	0	0	0	0	0	/	/	/	/	/							10	8%	45%
43	0	0	0	0	0	0	0	/	/								9	7%	38%
42	0	0	0	0	0	0	0	0	0	/	/	/	/	/	/	/	16	12%	31%
41	0	0	0	/	/	/											6	5%	19%
40	0	0	/														3	2%	14%
39	0	0	0	0	/	/	/										7	5%	12%
38	0	/															2	2%	7%
37	0	/	/														3	2%	5%
36	0	/	/														3	2%	3%
35	/																1	1%	1%
34																	0	0%	0%
33																	0	0%	0%
32																	0	0%	0%
31																	0	0%	0%
30																	0	0%	0%
29																	0	0%	0%
28																	0	0%	0%
27																	0	0%	0%
26																	0	0%	0%
25																	0	0%	0%
24																	0	0%	0%
23																	0	0%	0%
22																	0	0%	0%
21																	0	0%	0%
RECORDER: Nancy Cen											TOTAL NUMBER OF VEHICLES: 132								

85th Percentile: 49 mph

# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Telegraph Canyon Rd (Medical Center Dr - Paseo Ladera)  
 DATE: 4/10/2019 SURVEY SITE: Medical Center Dr - Paseo Ladera POSTED SPEED: 50  
 TIME START: 11:27am TIME END: 11:47am WEATHER: Sunny

MPH	DIRECTION: <u>EB</u> = 0 <u>WB</u> = /																TOTAL	%	CUM %	
					5				10				15							20
70																		0	0%	96%
69																		0	0%	96%
68																		0	0%	96%
67																		0	0%	96%
66																		0	0%	96%
65																		0	0%	96%
64																		0	0%	96%
63																		0	0%	96%
62																		0	0%	96%
61																		0	0%	96%
60																		0	0%	96%
59																		0	0%	96%
58																		0	0%	96%
57	0																	1	1%	96%
56	0	/																2	2%	95%
55	/	/																2	2%	93%
54	0	0																2	2%	92%
53	0	0	0	0	/	/												6	5%	90%
52	0	0	0	0	0	0	0	0	/	/	/	/	/	/	/	/		16	13%	85%
51	0	0	0	0	/	/	/	/	/									9	8%	72%
50	0	0	0	0	0	0	0	/	/	/								10	8%	64%
49	0	0	0	0	0	0	0	/	/	/	/	/	/	/	/	/		16	13%	56%
48	0	0	0	0	/	/	/	/	/									9	8%	43%
47	0	0	0	/	/	/												6	5%	35%
46	0	0	0	0	/	/	/	/										8	7%	30%
45	0	0	0	0	/	/	/											7	6%	23%
44	0	0	0	0	/	/	/	/	/									9	8%	18%
43	0	/	/	/														4	3%	10%
42	0	0	0	0	/	/	/	/										8	7%	7%
41																		0	0%	0%
40	0	/	/	/														4	3%	4%
39	/																	1	1%	1%
38																		0	0%	0%
37																		0	0%	0%
36																		0	0%	0%
35																		0	0%	0%
34																		0	0%	0%
33																		0	0%	0%
32																		0	0%	0%
31																		0	0%	0%
<b>RECORDER:</b>	Nancy Cen																<b>TOTAL NUMBER OF VEHICLES:</b>	120		

85th Percentile Speed: 52 mph

# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Telegraph Canyon Rd (Paseo Ladera - Heritage Rd)  
 DATE: 4/10/2019 SURVEY SITE: Paseo Ladera - Heritage Rd POSTED SPEED: 50  
 TIME START: 11:02am TIME END: 11:18am WEATHER: Sunny

MPH	DIRECTION: <u>EB</u> = 0 <u>WB</u> = /																TOTAL	%	CUM %	
	5				10				15				20							
70																	0	0%	100%	
69																	0	0%	100%	
68																	0	0%	100%	
67																	0	0%	100%	
66																	0	0%	100%	
65																	0	0%	100%	
64																	0	0%	100%	
63																	0	0%	100%	
62																	0	0%	100%	
61																	0	0%	100%	
60																	0	0%	100%	
59																	0	0%	100%	
58																	0	0%	100%	
57																	0	0%	100%	
56	/																1	1%	100%	
55																	0	0%	99%	
54	/																1	1%	99%	
53	0	/	0	/													4	4%	98%	
52	/	/	/	0	0	0	/	/	0	0							10	10%	94%	
51	/	/	0	0	/	/	/	0	0	0	0	0	/	/	/	0	0	16	15%	85%
50	/	/	/	0	/	0	0	/	/	/	/	/	0	0	0		15	14%	69%	
49	/	/	/	/	0	/	0	/	0	0	0	/	0	/	/	0	0	17	16%	55%
48	/	/	0	0	0	/	/	0	0	0	/	0	0	0	0	0	16	15%	38%	
47	/	/	/	0	0	0	0	0									8	8%	23%	
46	/	/	/	/	0	0	0	/	/	0	0	0					12	12%	15%	
45	/	/															2	2%	4%	
44	/	0															2	2%	2%	
43																	0	0%	0%	
42																	0	0%	0%	
41																	0	0%	0%	
40																	0	0%	0%	
39																	0	0%	0%	
38																	0	0%	0%	
37																	0	0%	0%	
36																	0	0%	0%	
35																	0	0%	0%	
34																	0	0%	0%	
33																	0	0%	0%	
32																	0	0%	0%	
31																	0	0%	0%	
<b>RECORDER:</b>	Nancy Cen										<b>TOTAL NUMBER OF VEHICLES:</b> 104									

85th Percentile Speed: 51 mph

# CITY OF CHULA VISTA - VEHICLE SPEED SURVEY

SEGMENT UNDER STUDY: Telegraph Canyon Rd (Heritage Rd - Otay Lakes Rd)  
 DATE: 4/10/2019 SURVEY SITE: Heritage Rd - Otay Lakes Rd POSTED SPEED: 50  
 TIME START: 10:22am TIME END: 10:53am WEATHER: Sunny

MPH	DIRECTION: <u>EB</u> = 0 <u>WB</u> = /																TOTAL	%	CUM %	
	5				10				15				20							
70																	0	0%	100%	
69																	0	0%	100%	
68																	0	0%	100%	
67																	0	0%	100%	
66																	0	0%	100%	
65																	0	0%	100%	
64																	0	0%	100%	
63																	0	0%	100%	
62																	0	0%	100%	
61																	0	0%	100%	
60																	0	0%	100%	
59																	0	0%	100%	
58																	0	0%	100%	
57	0	/															2	2%	100%	
56	0	0	/														3	3%	98%	
55	0	0	0	0	/												5	5%	95%	
54	0	/															2	2%	91%	
53	0	0	/	/													4	4%	89%	
52	0	0	0	0	0	0	/	/	/	/	/	/					11	10%	85%	
51	0	0	0	0	0	0	/	/	/	/	/	/					11	10%	75%	
50	0	0	0	0	0	/	/	/	/	/	/	/	/				12	11%	64%	
49	0	0	0	0	0	0	0	0	0	0	/	/	/	/	/	/	16	15%	53%	
48	0	0	0	0	/	/	/	/	/								9	8%	38%	
47	0	0	0	0	/	/	/	/	/								9	8%	29%	
46	0	0	0	/	/	/	/	/	/	/	/						11	10%	21%	
45	0	/	/														3	3%	10%	
44	/	/	/	/													4	4%	8%	
43	0	0															2	2%	4%	
42	0																1	1%	2%	
41	0																1	1%	1%	
40																	0	0%	0%	
39																	0	0%	0%	
38																	0	0%	0%	
37																	0	0%	0%	
36																	0	0%	0%	
35																	0	0%	0%	
34																	0	0%	0%	
33																	0	0%	0%	
32																	0	0%	0%	
31																	0	0%	0%	
<b>RECORDER:</b>	Nancy Cen																<b>TOTAL NUMBER OF VEHICLES:</b>	106		

85th Percentile Speed: 52 mph