

**TRAFFIC
AND
ENGINEERING
REPORT**

OCTOBER 2015



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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JOHN J. PRESLEIGH
DIRECTOR OF PUBLIC WORKS

SUBJECT: TRAFFIC AND ENGINEERING REPORT OCTOBER 2015

To Whom It May Concern:

This traffic and engineering report was prepared in accordance with Vehicle Code Section 40803 to allow the use of radar for speed enforcement purposes. The recommended safe speeds were determined utilizing the prevailing 85th percentile speeds combined with traffic engineering judgment to match existing conditions with the traffic safety needs of the community. Accident statistics indicate that unsafe speed is the highest single primary collision factor on roadways, and adherence to safe speeds should result in a substantial reduction in vehicle accidents.

Yours truly,



JOHN J. PRESLEIGH
Director of Public Works

RR:cb

Attachment

trafficrepcover2-2015.doc

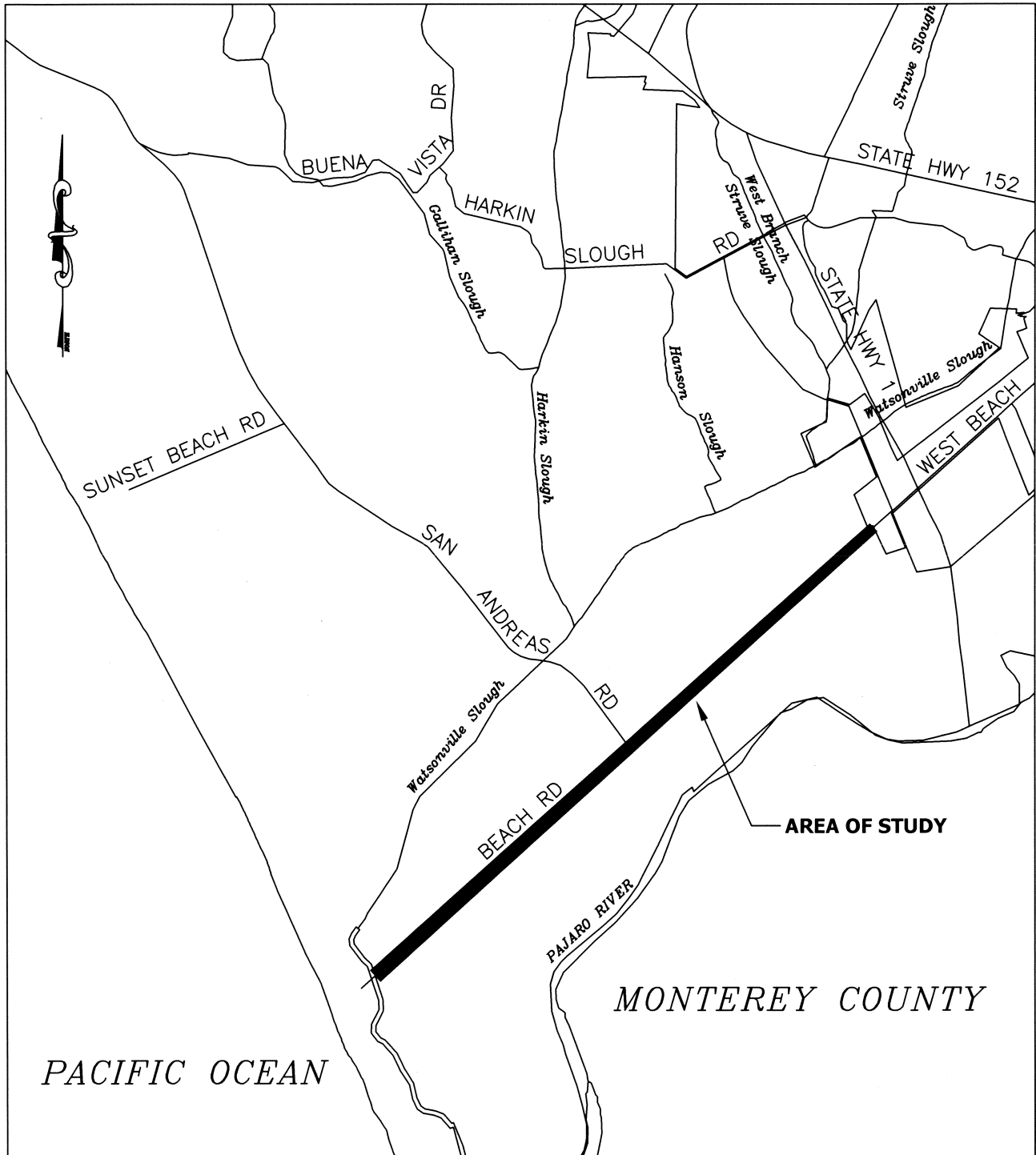
TRAFFIC AND ENGINEERING REPORT

October, 2015

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**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEACH ROAD
WATSONVILLE CITY LIMITS TO THE END
AT SUNSET BEACH**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Beach Road from Watsonville City limit to Sunset Beach (speed data collected north of San Andreas Road).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	44 mph	45 mph
Pace Speed	33-43 mph	36-46 mph
Average Speed	38.65 mph	40.72 mph

ANALYSIS:

The prevailing 85th percentile speeds are 44 MPH and 45 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 40 MPH. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

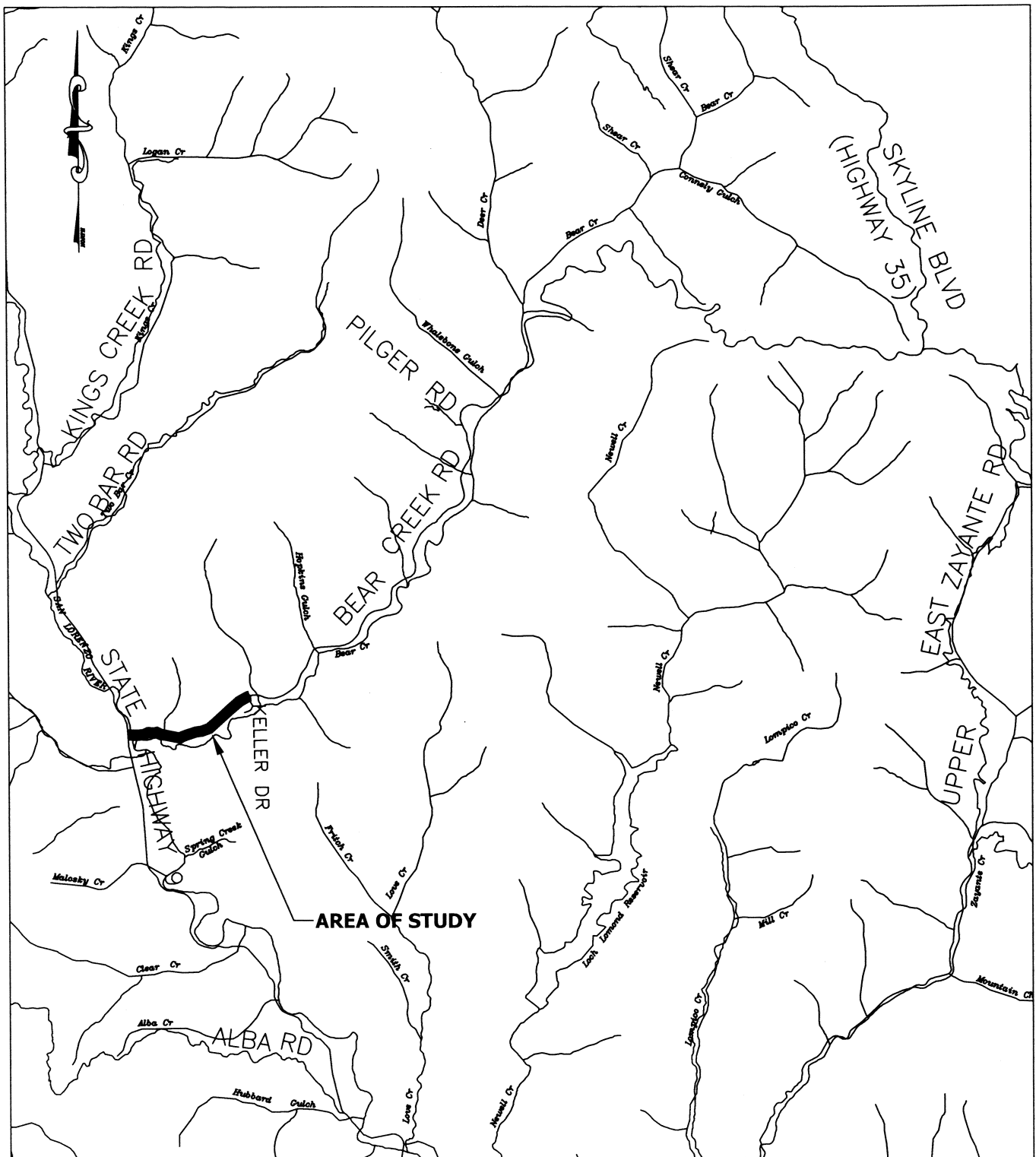
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Beach Road			
From:	Watsonville City Limits	55		100.0%
To:	Sunset Beach	54		100.0%
Direction:	Northbound	53		100.0%
Weather:	Sunny	52	1 ♦	100.0%
Posted Speed:	40	51		98.7%
Begin time:	1:50 PM	50		98.7%
End time:	2:15 PM	49	3 ♦♦♦	98.7%
		48	2 ♦♦	94.7%
		47	1 ♦	92.0%
		46		90.7%
		45	4 ♦♦♦♦	90.7%
		44	5 ♦♦♦♦♦	85.3%
		43	2 ♦♦	78.7%
		42	2 ♦♦	76.0%
		41	3 ♦♦♦	73.3%
CRITICAL SPEED	44	40	4 ♦♦♦♦	69.3%
AVERAGE SPEED	38.65	39	6 ♦♦♦♦♦♦	64.0%
MEDIAN SPEED	37.0	38	4 ♦♦♦♦	56.0%
STANDARD DEVIATION	5.04	37	7 ♦♦♦♦♦♦♦	50.7%
PACE RANGE	33 - 43	36	9 ♦♦♦♦♦♦♦♦♦	41.3%
PERCENTAGE IN PACE	69.3%	35	8 ♦♦♦♦♦♦♦♦	29.3%
TOTAL # OF AUTOS	75	34	4 ♦♦♦♦	18.7%
		33	5 ♦♦♦♦♦	13.3%
		32	2 ♦♦	6.7%
		31		4.0%
		30	3 ♦♦♦	4.0%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Beach Road			
From:	Watsonville City Limits	55		100.0%
To:	Sunset Beach	54		100.0%
Direction:	Southbound	53	1 ♦	100.0%
Weather:	Sunny	52		98.6%
Posted Speed:	40	51	1 ♦	98.6%
Begin time:	1:50 PM	50		97.1%
End time:	2:15 PM	49	1 ♦	97.1%
		48		95.7%
		47	2 ♦♦	95.7%
		46	1 ♦	92.8%
		45	6 ♦♦♦♦♦♦	91.3%
		44	5 ♦♦♦♦♦	82.6%
		43	4 ♦♦♦♦	75.4%
		42	7 ♦♦♦♦♦♦♦	69.6%
		41	6 ♦♦♦♦♦♦	59.4%
CRITICAL SPEED	45	40	11 ♦♦♦♦♦♦♦♦♦♦	50.7%
AVERAGE SPEED	40.72	39	9 ♦♦♦♦♦♦♦♦	34.8%
MEDIAN SPEED	40.0	38	2 ♦♦	21.7%
STANDARD DEVIATION	4.28	37	2 ♦♦	18.8%
PACE RANGE	36 - 46	36	4 ♦♦♦♦	15.9%
PERCENTAGE IN PACE	81.2%	35	2 ♦♦	10.1%
TOTAL # OF AUTOS	69	34		7.2%
		33	2 ♦♦	7.2%
		32	2 ♦♦	4.3%
		31		1.4%
		30	1 ♦	1.4%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION <u>BENCH RD (City Limit / San A. Hwy)</u>		BY <u>JGL</u>	
ROAD NO _____	DATE <u>10/24/14</u>	DAY <u>FRI</u>	BEGIN <u>1:50</u> END <u>2:15</u>
POSTED SPEED <u>40</u>		WEATHER <u>SUNNY</u>	
NUMBER OF LANES <u>2</u>	GRADE _____	CALIBRATED <u>✓</u>	
NUMBER OF VEHICLES			
MPH	DIRECTION → CITY (N)	TOTAL OF EACH SPEED	DIRECTION (S) ← SAN ANTONIO
60			
59			
58			
57			
56			
55			
54			
53			
52		1	1
51			1
50			
49		3	1
48		2	
47		1	
46			1
45		4	- 1
44	-	5	-
43		2	
42		2	-
41		3	-
40		4	- - 1
39	-	6	-
38		4	
37	-	7	
36	-	9	
35	-	8	
34		4	
33		5	
32		2	
31			
30		3	1
29			
28			
27			
26			
25			
24			
23			
22			
21			
20-			
TOTAL		<u>75</u>	TOTAL <u>69</u>



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEAR CREEK ROAD
STATE HIGHWAY 9 TO KELLER DRIVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Bear Creek Road from Highway 9 to Keller Drive (west).
(Speed Data collected at Huckleberry Lane intersection).

PREVAILING SPEED DATA:

The existing speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	34 mph	34 mph
Pace Speed	27-37 mph	27-37 mph
Average Speed	30.54 mph	31.33 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH and 34 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Bear Creek Road			
From:	HWY 9	39	0	100.0%
To:	Keller Dr	38	1 ♦	100.0%
Direction:	NB	37	0	98.1%
Weather:	Sunny	36	2 ♦♦	98.1%
Posted Speed:	30	35	2 ♦♦	94.4%
Begin time:	10:31 AM	34	4 ♦♦♦♦	90.7%
End time:	11:13 AM	33	4 ♦♦♦♦	83.3%
		32	6 ♦♦♦♦♦♦	75.9%
		31	7 ♦♦♦♦♦♦♦	64.8%
		30	9 ♦♦♦♦♦♦♦♦♦	51.9%
		29	7 ♦♦♦♦♦♦♦	35.2%
		28	4 ♦♦♦♦	22.2%
		27	6 ♦♦♦♦♦♦	14.8%
		26	0	3.7%
		25	0	3.7%
CRITICAL SPEED	34	24	0	3.7%
AVERAGE SPEED	30.54	23	1 ♦	3.7%
MEDIAN SPEED	30.0	22	1 ♦	1.9%
STANDARD DEVIATION	3.05	21	0	0.0%
PACE RANGE	27 - 37	20	0	0.0%
PERCENTAGE IN PACE	94.4%	19	0	0.0%
TOTAL # OF AUTOS	54	18	0	0.0%
		17	0	0.0%
		16	0	0.0%
		15	0	0.0%
			0	

RADAR SPEED SURVEY

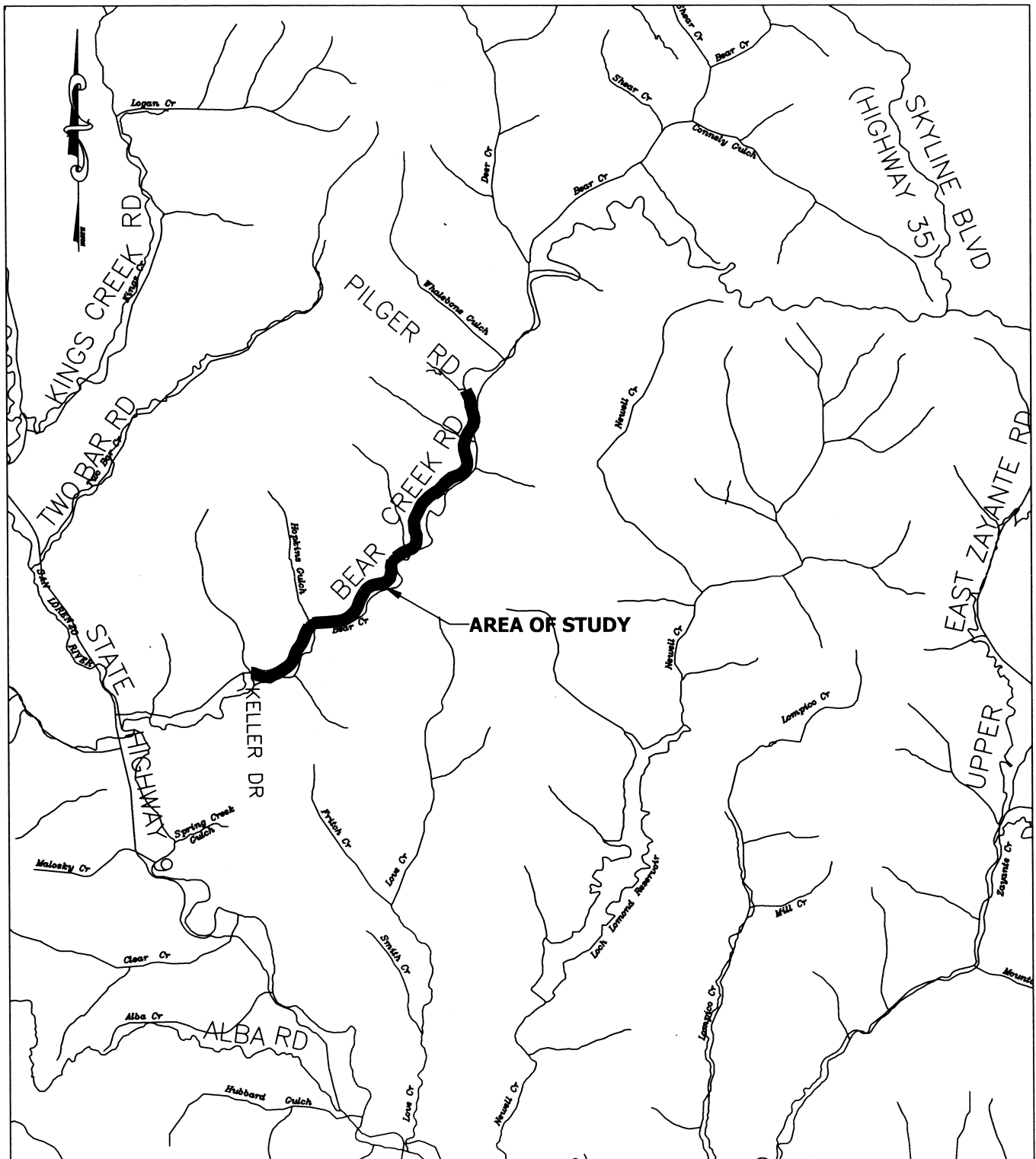
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Bear Creek Road			
From:	HWY 9	40	0	100.0%
To:	Keller Dr	39	1 ♦	100.0%
Direction:	SB	38	1 ♦	98.4%
Weather:	Sunny	37	0	96.7%
Posted Speed:	30	36	1 ♦	96.7%
Begin time:	10:31 AM	35	6 ♦♦♦♦♦♦	95.1%
End time:	11:13 AM	34	5 ♦♦♦♦♦	85.2%
		33	8 ♦♦♦♦♦♦♦♦	77.0%
		32	5 ♦♦♦♦♦	63.9%
		31	9 ♦♦♦♦♦♦♦♦♦	55.7%
		30	10 ♦♦♦♦♦♦♦♦♦♦	41.0%
		29	7 ♦♦♦♦♦♦♦	24.6%
		28	2 ♦♦	13.1%
		27	3 ♦♦♦	9.8%
		26	1 ♦	4.9%
		25	1 ♦	3.3%
		24	1 ♦	1.6%
CRITICAL SPEED	34	23	0	0.0%
AVERAGE SPEED	31.33	22	0	0.0%
MEDIAN SPEED	31.0	21	0	0.0%
STANDARD DEVIATION	2.95	20	0	0.0%
PACE RANGE	27 - 37	19	0	0.0%
PERCENTAGE IN PACE	91.8%	18	0	0.0%
TOTAL # OF AUTOS	61	17	0	0.0%
		16	0	0.0%
		15	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION BEAR CREEK RD @ HUCKLEBERRY LN. BY _____
ROAD NO _____ DATE 2/23 DAY MON BEGIN 10:31 END 11:13
POSTED SPEED 30 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 2% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB TO Hwy 9	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				1
38	1	1		1
37				
36	1	2		1
35	1	2	1 1 1 1	6
34	1 1 1	4	1 1 1 1	5
33	1 1 1	4	1 1 1 1 1	8
32	1 1 1 1	6	1 1 1 1	5
31	1 1 1 1 1 1	7	1 1 1 1 1 1	9
30	1 1 1 1 1 1 1	9	1 1 1 1 1 1 1	10
29	1 1 1 1 1	7	1 1 1 1 1	7
28	1 1 1 1	4	1 1	2
27	1 1 1 1	6	1 1	3
26			1	1
25			1	1
24			1	1
23	1	1		
22	1	1		
21				
20-				
TOTAL		51	TOTAL	61



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEAR CREEK ROAD
KELLER DRIVE TO PILGER ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Bear Creek Road from Keller Drive (west) to Pilger Road
(Speed Data collected South of Pilger Road).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	43 mph	42 mph
Pace Speed	35-45 mph	33-43 mph
Average Speed	38.57 mph	38.04 mph

ANALYSIS:

The prevailing 85th percentile speeds are 43 MPH and 42 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Bear Creek Road			
From:	Keller Dr	49	0	100.0%
To:	Pilger Rd	48	1 ♦	100.0%
Direction:	NB	47	0	98.4%
Weather:	Sunny	46	1 ♦	98.4%
Posted Speed:	40	45	2 ♦♦	96.8%
Begin time:	11:32 AM	44	3 ♦♦♦	93.5%
End time:	12:45 PM	43	3 ♦♦♦	88.7%
		42	6 ♦♦♦♦♦♦	83.9%
		41	5 ♦♦♦♦♦	74.2%
		40	2 ♦♦	66.1%
		39	5 ♦♦♦♦♦	62.9%
		38	6 ♦♦♦♦♦♦	54.8%
		37	6 ♦♦♦♦♦♦	45.2%
		36	6 ♦♦♦♦♦♦	35.5%
		35	8 ♦♦♦♦♦♦♦♦	25.8%
		34	2 ♦♦	12.9%
CRITICAL SPEED	43	33	4 ♦♦♦♦	9.7%
AVERAGE SPEED	38.47	32	0	3.2%
MEDIAN SPEED	38.0	31	2 ♦♦	3.2%
STANDARD DEVIATION	3.88	30	0	0.0%
PACE RANGE	35 - 45	29	0	0.0%
PERCENTAGE IN PACE	80.6%	28	0	0.0%
TOTAL # OF AUTOS	62	27	0	0.0%
		26	0	0.0%
		25	0	0.0%
		24	0	0.0%

RADAR SPEED SURVEY

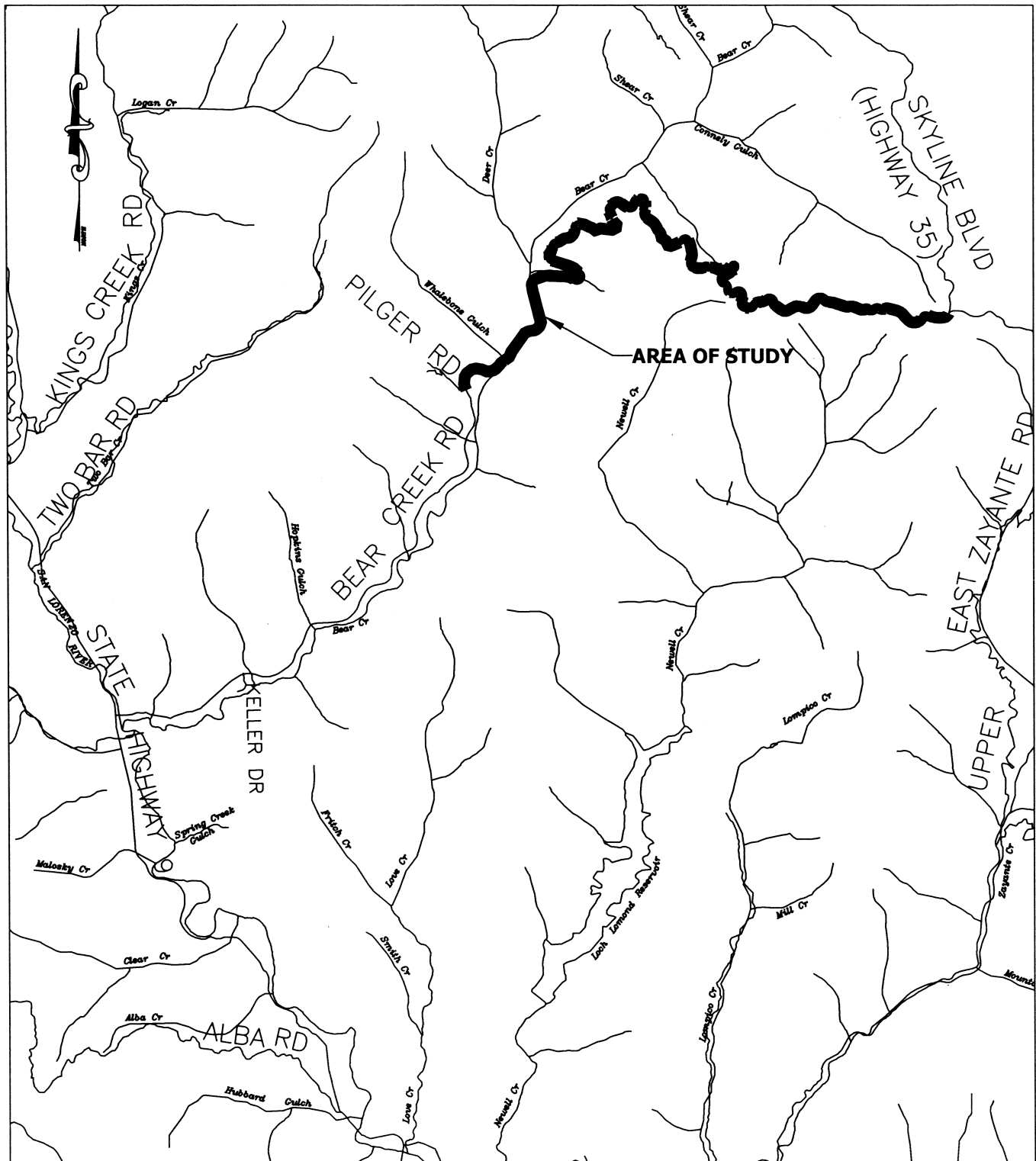
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Bear Creek Road			
From:	Keller Dr	49	0	100.0%
To:	Pilger Rd	48	1 ♦	100.0%
Direction:	SB	47	0	98.1%
Weather:	Sunny	46	1 ♦	98.1%
Posted Speed:	40	45	1 ♦	96.2%
Begin time:	11:32 AM	44	0	94.3%
End time:	12:45 PM	43	0	94.3%
		42	8 ♦♦♦♦♦♦♦♦	94.3%
		41	5 ♦♦♦♦♦	79.2%
		40	3 ♦♦♦	69.8%
		39	7 ♦♦♦♦♦♦♦	64.2%
		38	7 ♦♦♦♦♦♦♦	50.9%
		37	2 ♦♦	37.7%
		36	5 ♦♦♦♦♦	34.0%
		35	1 ♦	24.5%
CRITICAL SPEED	42	34	2 ♦♦	22.6%
AVERAGE SPEED	38.04	33	5 ♦♦♦♦♦	18.9%
MEDIAN SPEED	38.0	32	2 ♦♦	9.4%
STANDARD DEVIATION	4.02	31	1 ♦	5.7%
PACE RANGE	33 - 43	30	2 ♦♦	3.8%
PERCENTAGE IN PACE	84.9%	29	0	0.0%
TOTAL # OF AUTOS	53	28	0	0.0%
		27	0	0.0%
		26	0	0.0%
		25	0	0.0%
		24	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION BEAN CREEK Rd. @ SOUTH OF PUEBLO BY RL
 ROAD NO _____ DATE 2/23 DAY Mon BEGIN 11:32 END 12:45
 POSTED SPEED 40 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 52 CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB ← to Highway 9	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48		1		1
47				
46		1		1
45		2		1
44		3		
43		6		
42		5		8
41		5		5
40		2		3
39		5		7
38		6		7
37		6		2
36		6		5
35		8		1
34		2		2
33		1		5
32				2
31		2		1
30				2
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		62	TOTAL 53	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BEAR CREEK ROAD
PILGER ROAD TO HWY 35**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Bear Creek Road from Pilger Road to HWY 235
(Speed Data collected at PM 7.2).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	38 mph	38 mph
Pace Speed	30-40 mph	29-39 mph
Average Speed	34.54 mph	35.30 mph

ANALYSIS:

The prevailing 85th percentile speeds are 38 MPH and 38 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Bear Creek Road			
From:	Pilger Road	45	0	100.0%
To:	HWY 35	44	0	100.0%
Direction:	NB	43	0	100.0%
Weather:	Sunny	42	0	100.0%
Posted Speed:	35	41	1 ♦	100.0%
Begin time:	1:51 PM	40	0	98.1%
End time:	3:29 PM	39	4 ♦♦♦♦	98.1%
		38	5 ♦♦♦♦♦	90.4%
		37	7 ♦♦♦♦♦♦♦	80.8%
		36	2 ♦♦	67.3%
		35	8 ♦♦♦♦♦♦♦♦	63.5%
		34	10 ♦♦♦♦♦♦♦♦♦♦	48.1%
		33	4 ♦♦♦♦	28.8%
		32	1 ♦	21.2%
		31	3 ♦♦♦	19.2%
		30	4 ♦♦♦♦	13.5%
CRITICAL SPEED	38	29	1 ♦	5.8%
AVERAGE SPEED	34.54	28	0	3.8%
MEDIAN SPEED	35.0	27	1 ♦	3.8%
STANDARD DEVIATION	3.27	26	0	1.9%
PACE RANGE	30 - 40	25	1 ♦	1.9%
PERCENTAGE IN PACE	92.3%	24	0	0.0%
TOTAL # OF AUTOS	52	23	0	0.0%
		22	0	0.0%
		21	0	0.0%
		20	0	0.0%

RADAR SPEED SURVEY

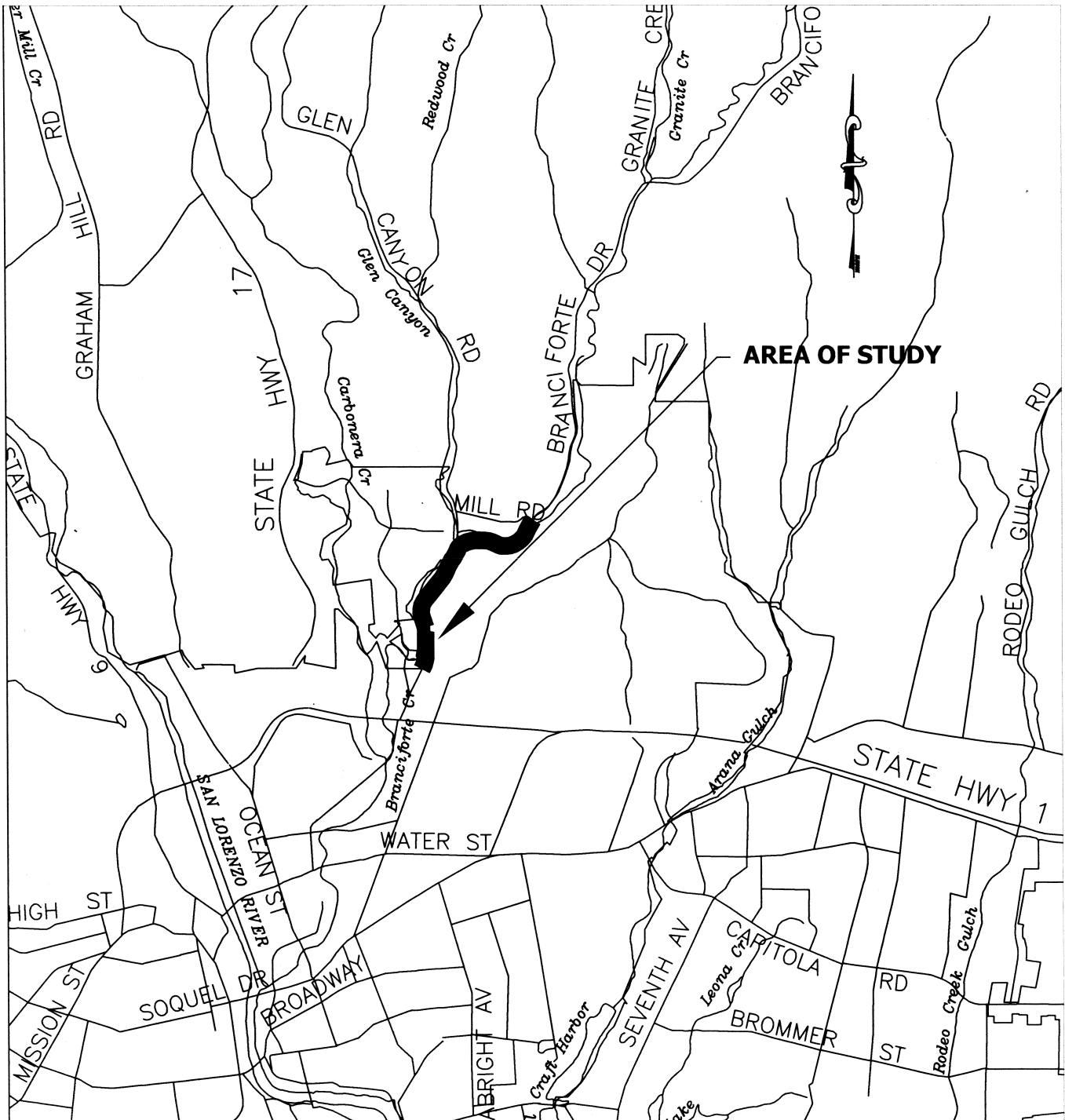
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Bear Creek Road			
From:	Pilger Rd	45	0	100.0%
To:	HWY 35	44	0	100.0%
Direction:	SB	43	0	100.0%
Weather:	Sunny	42	2 ♦♦	100.0%
Posted Speed:	35	41	1 ♦	96.3%
Begin time:	1:51 PM	40	1 ♦	94.4%
End time:	3:29 AM	39	2 ♦♦	92.6%
		38	9 ♦♦♦♦♦♦♦♦	88.9%
		37	8 ♦♦♦♦♦♦♦♦	72.2%
		36	9 ♦♦♦♦♦♦♦♦	57.4%
		35	3 ♦♦♦	40.7%
		34	6 ♦♦♦♦♦♦	35.2%
		33	1 ♦	24.1%
		32	3 ♦♦♦	22.2%
		31	2 ♦♦	16.7%
		30	2 ♦♦	13.0%
CRITICAL SPEED	38	29	3 ♦♦♦	9.3%
AVERAGE SPEED	35.30	28	1 ♦	3.7%
MEDIAN SPEED	36.0	27	0	1.9%
STANDARD DEVIATION	3.54	26	1 ♦	1.9%
PACE RANGE	29 - 39	25	0	0.0%
PERCENTAGE IN PACE	85.2%	24	0	0.0%
TOTAL # OF AUTOS	54	23	0	0.0%
		22	0	0.0%
		21	0	0.0%
		20	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION BEAR CREEK RD C PM 7.2 PM BY RR
 ROAD NO _____ DATE 2/23 DAY Mon BEGIN 1:51 END 3:29
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 5% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	<u>NB</u>		<u>SB</u>	
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				
35				
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		<u>52</u>	TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BRANCIFORTE DRIVE
SANTA CRUZ CITY LIMITS TO MILL ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Branciforte Drive Santa Cruz city limit to Mill Road (Speed Data collected at PM 5.12).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	34 mph	37 mph
Pace Speed	25-35 mph	29-39 mph
Average Speed	30.77 mph	34.61 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH and 37MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Branciforte Drive			
From:	City Limit	42	0	100.0%
To:	Mill Road	41	1 ♦	100.0%
Direction:	NB	40	0	98.4%
Weather:	Sunny	39	1 ♦	98.4%
Posted Speed:	35	38	3 ♦♦♦	96.9%
Begin time:	2:20 PM	37	2 ♦♦	92.2%
End time:	2:58 PM	36	2 ♦♦	89.1%
		35	0	85.9%
		34	8 ♦♦♦♦♦♦♦♦	85.9%
		33	5 ♦♦♦♦♦	73.4%
		32	5 ♦♦♦♦♦	65.6%
		31	3 ♦♦♦	57.8%
		30	9 ♦♦♦♦♦♦♦♦♦	53.1%
		29	9 ♦♦♦♦♦♦♦♦♦	39.1%
		28	2 ♦♦	25.0%
		27	4 ♦♦♦♦	21.9%
CRITICAL SPEED	34	26	4 ♦♦♦♦	15.6%
AVERAGE SPEED	30.77	25	2 ♦♦	9.4%
MEDIAN SPEED	30.0	24	1 ♦	6.3%
STANDARD DEVIATION	4.22	23	2 ♦♦	4.7%
PACE RANGE	25 - 35	22	0	1.6%
PERCENTAGE IN PACE	79.7%	21	0	1.6%
TOTAL # OF AUTOS	64	20	1 ♦	1.6%
		19	0	0.0%
		18	0	0.0%
		17	0	0.0%

RADAR SPEED SURVEY

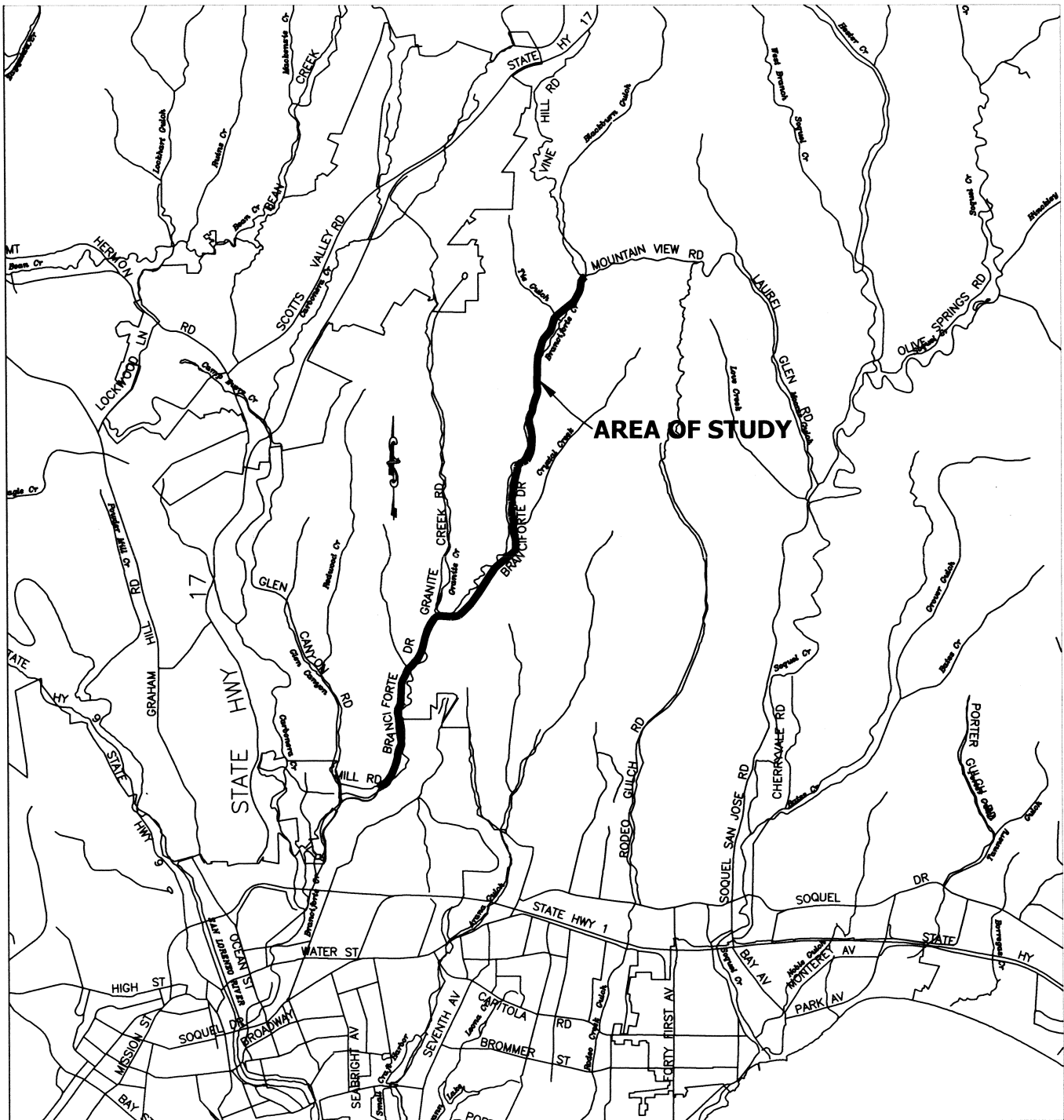
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Branciforte Drive			
From:	City Limit	42	0	100.0%
To:	Mill Road	41	1 ♦	100.0%
Direction:	SB	40	1 ♦	98.5%
Weather:	Sunny	39	4 ♦♦♦♦	97.0%
Posted Speed:	35	38	4 ♦♦♦♦	91.0%
Begin time:	2:20 PM	37	12 ♦♦♦♦♦♦♦♦♦♦♦♦	85.1%
End time:	2:58 PM	36	10 ♦♦♦♦♦♦♦♦♦♦	67.2%
		35	6 ♦♦♦♦♦♦	52.2%
		34	5 ♦♦♦♦♦	43.3%
		33	7 ♦♦♦♦♦♦♦	35.8%
		32	3 ♦♦♦	25.4%
		31	7 ♦♦♦♦♦♦♦	20.9%
		30	1 ♦	10.4%
		29	5 ♦♦♦♦♦	9.0%
		28	0	1.5%
		27	1 ♦	1.5%
CRITICAL SPEED	37	27	1 ♦	1.5%
AVERAGE SPEED	34.61	26	0	0.0%
MEDIAN SPEED	35.0	25	0	0.0%
STANDARD DEVIATION	3.14	24	0	0.0%
PACE RANGE	29 - 39	23	0	0.0%
PERCENTAGE IN PACE	89.6%	22	0	0.0%
TOTAL # OF AUTOS	67	21	0	0.0%
		20	0	0.0%
		19	0	0.0%
		18	0	0.0%
		17	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION BRANDFORD DRIVE CPM 5.12 BY RR
ROAD NO _____ DATE 4/20/15 DAY MONDAY BEGIN 2:20 PM END 2:58 PM
POSTED SPEED 35 MPH WEATHER Partly Sunny
NUMBER OF LANES 2 GRADE FLAT CALIBRATED Yes

NUMBER OF VEHICLES

MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41		1		1
40				1
39		1		4
38		3		4
37		2		12
36		2		10
35				6
34		8		5
33		5		7
32		5		3
31		3		7
30		9		1
29		9		5
28		2		
27		4		1
26		4		
25		2		
24		1		
23		2		
22				
21				
20-		1		
TOTAL		64	TOTAL 67	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BRANCIFORTE DRIVE
MILL ROAD TO MOUNTAIN VIEW ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Branciforte Drive from Mill Road to Mountain View Road (Speed Data collected at # 1451).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	37 mph	40 mph
Pace Speed	29-39 mph	31-41 mph
Average Speed	33.97 mph	35.70 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 MPH and 40MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

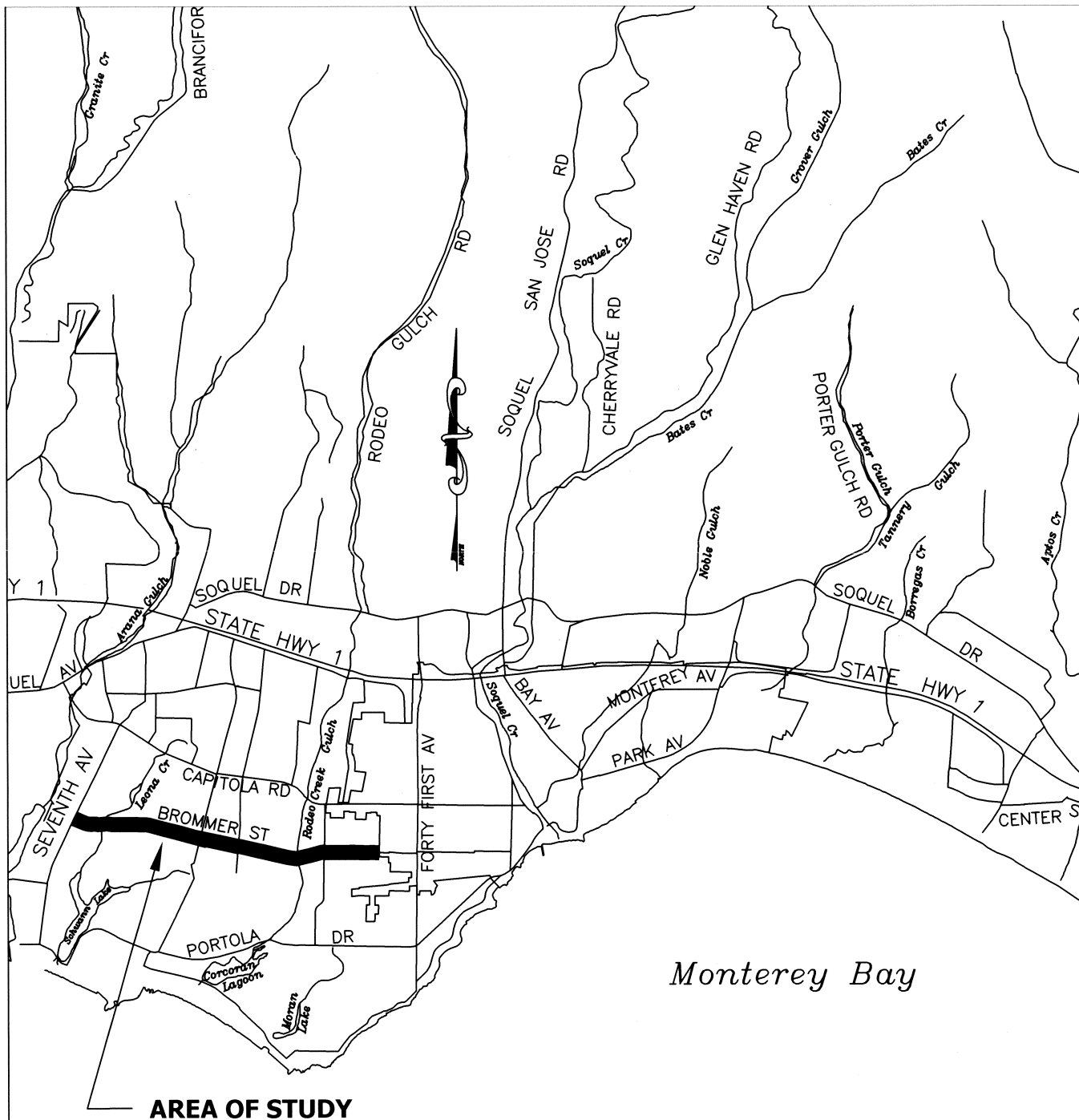
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Branciforte Drive			
From:	Mill Road	46	0	100.0%
To:	Mt View Road	45	1 ♦	100.0%
Direction:	NB	44	0	98.9%
Weather:	Sunny	43	0	98.9%
Posted Speed:	35	42	1 ♦	98.9%
Begin time:	9:54 AM	41	0	97.8%
End time:	11:20 AM	40	4 ♦♦♦♦	97.8%
		39	2 ♦♦	93.5%
		38	3 ♦♦♦	91.3%
		37	13 ♦♦♦♦♦♦♦♦♦♦♦♦	88.0%
		36	13 ♦♦♦♦♦♦♦♦♦♦♦♦	73.9%
		35	7 ♦♦♦♦♦♦	59.8%
		34	10 ♦♦♦♦♦♦♦♦	52.2%
		33	7 ♦♦♦♦♦♦	41.3%
		32	11 ♦♦♦♦♦♦♦♦♦♦	33.7%
CRITICAL SPEED	37	31	6 ♦♦♦♦♦♦	21.7%
AVERAGE SPEED	33.97	30	2 ♦♦	15.2%
MEDIAN SPEED	34.0	29	5 ♦♦♦♦♦	13.0%
STANDARD DEVIATION	3.91	28	1 ♦	7.6%
PACE RANGE	29 - 39	27	0	6.5%
PERCENTAGE IN PACE	83.7%	26	2 ♦♦	6.5%
TOTAL # OF AUTOS	92	25	2 ♦♦	4.3%
		24	2 ♦♦	2.2%
		23	0	0.0%
		22	0	0.0%
		21	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Branciforte Drive			
From:	Mill Road	50	0	100.0%
To:	Mt View Road	49	1 ♦	100.0%
Direction:	SB	48	0	99.1%
Weather:	Sunny	47	0	99.1%
Posted Speed:	35	46	0	99.1%
Begin time:	9:54 AM	45	0	99.1%
End time:	11:20 AM	44	2 ♦♦	99.1%
		43	3 ♦♦♦	97.2%
		42	3 ♦♦♦	94.3%
		41	4 ♦♦♦♦	91.5%
		40	8 ♦♦♦♦♦♦♦♦	87.7%
		39	10 ♦♦♦♦♦♦♦♦♦♦	80.2%
		38	6 ♦♦♦♦♦♦	70.8%
		37	9 ♦♦♦♦♦♦♦♦	65.1%
		36	8 ♦♦♦♦♦♦♦♦	56.6%
CRITICAL SPEED	40	35	11 ♦♦♦♦♦♦♦♦♦♦	49.1%
AVERAGE SPEED	35.70	34	12 ♦♦♦♦♦♦♦♦♦♦♦♦	38.7%
MEDIAN SPEED	36.0	33	6 ♦♦♦♦♦♦	27.4%
STANDARD DEVIATION	4.44	32	3 ♦♦♦	21.7%
PACE RANGE	31 - 41	31	6 ♦♦♦♦♦♦	18.9%
PERCENTAGE IN PACE	74.5%	30	4 ♦♦♦♦	13.2%
TOTAL # OF AUTOS	106	29	4 ♦♦♦♦	9.4%
		28	1 ♦	5.7%
		27	3 ♦♦♦	4.7%
		26	1 ♦	1.9%
		25	1 ♦	0.9%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION <u>BRANCI FORTE DR C 1451</u>		BY <u>RR</u>	
ROAD NO _____	DATE <u>9/10</u>	DAY <u>9/10</u>	BEGIN <u>9:54</u> END <u>11:20</u>
POSTED SPEED <u>35</u>	WEATHER <u>SUNNY</u>		
NUMBER OF LANES <u>2</u>	GRADE <u><10%</u>	CALIBRATED <u>YES</u>	
NUMBER OF VEHICLES			
MPH	DIRECTION <u>NP</u>	TOTAL OF EACH SPEED	DIRECTION <u>SB</u>
TOTAL OF EACH SPEED			
60			
59			
58			
57			
56			
55			
54			
53			
52			
51			
50			
49			1
48			
47			
46			
45	1		
44			2
43			3
42	1		3
41			4
40	4		8
39	2		10
38	3		6
37	13		9
36	13		8
35	7		11
34	10		12
33	7		6
32	11		3
31	6		6
30	2		4
29	5		4
28	1		1
27			3
26	2		1
25	2		1
24	2		
23			
22			
21			
20			
TOTAL		<u>92</u>	TOTAL <u>106</u>



Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BROMMER STREET
7th AVENUE TO THE CITY OF CAPITOLA**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Brommer Street from 7th Avenue to the City of Capitola. (Speed Data collected at 1355 Brommer Street)

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	29 mph	30 mph
Pace Speed	23-33 mph	23-33 mph
Average Speed	27.05 mph	27.55 mph

ANALYSIS:

The prevailing 85th percentile speed is 29 MPH westbound and 30 MPG eastbound. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Brommer Street
 From: City of Capitola
 To: 7th Avenue
 Direction: Westbound
 Weather: Cloudy
 Posted Speed: 25
 Begin time: 9:30 AM
 End time: 10:07 AM

CRITICAL SPEED
 AVERAGE SPEED
 MEDIAN SPEED
 STANDARD DEVIATION
 PACE RANGE
 PERCENTAGE IN PACE
 TOTAL # OF AUTOS

29
 27.05
 27.0
 2.63
 23 - 33
 93.2%
 74

MPH **# of Vehicles**

36		
35	1	◆
34	1	◆
33	1	◆
32	2	◆◆
31	2	◆◆
30	4	◆◆◆◆
29	9	◆◆◆◆◆◆◆◆◆
28	6	◆◆◆◆◆◆
27	14	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
26	14	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆
25	10	◆◆◆◆◆◆◆◆◆◆
24	5	◆◆◆◆◆
23	3	◆◆◆
22	2	◆◆
21		
20		
19		
18		
17		
16		
15		

Percentage

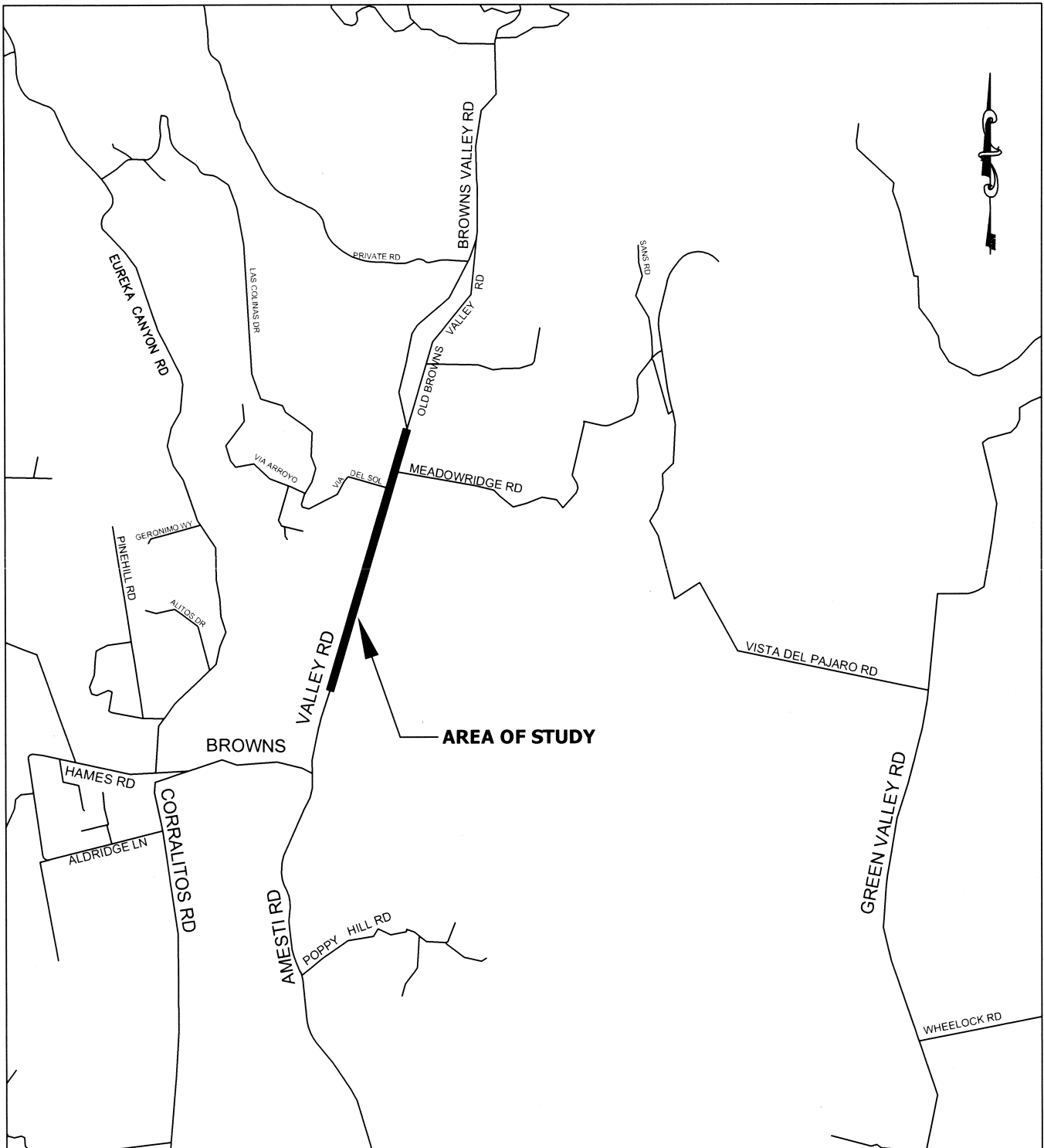
100.0%
 100.0%
 98.6%
 97.3%
 95.9%
 93.2%
 90.5%
 85.1%
 73.0%
 64.9%
 45.9%
 27.0%
 13.5%
 6.8%
 2.7%
 0.0%
 0.0%
 0.0%
 0.0%
 0.0%
 0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Brommer Street	35	2	♦♦	100.0%
From:	7th Avenue	34			96.9%
To:	City of Capitola	33	1	♦	96.9%
Direction:	Eastbound	32	1	♦	95.3%
Weather:	Sunny	31	3	♦♦♦	93.8%
Posted Speed:	25	30	7	♦♦♦♦♦♦♦	89.1%
Begin time:	9:40 AM	29	7	♦♦♦♦♦♦♦	78.1%
End time:	10:25 AM	28	9	♦♦♦♦♦♦♦♦	67.2%
		27	10	♦♦♦♦♦♦♦♦♦	53.1%
		26	11	♦♦♦♦♦♦♦♦♦♦	37.5%
		25	6	♦♦♦♦♦♦	20.3%
		24	3	♦♦♦	10.9%
		23	4	♦♦♦♦	6.3%
		22			0.0%
		21			0.0%
CRITICAL SPEED	30	20			0.0%
AVERAGE SPEED	27.55	19			0.0%
MEDIAN SPEED	27.0	18			0.0%
STANDARD DEVIATION	2.65	17			0.0%
PACE RANGE	23 - 33	16			0.0%
PERCENTAGE IN PACE	95.3%	15			0.0%
TOTAL # OF AUTOS	64				

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION <u>BROMMER ST @ 1355</u>		BY <u>564</u>	
ROAD NO _____	DATE _____	DAY <u>WED</u>	BEGIN <u>9:30 AM</u> END <u>10:07 AM</u>
POSTED SPEED <u>25</u>		WEATHER <u>CLOUDY</u>	
NUMBER OF LANES <u>2</u>	GRADE _____	CALIBRATED <u>✓</u>	
NUMBER OF VEHICLES			
MPH	DIRECTION <u>E</u> <u>↓</u>	TOTAL OF EACH SPEED	DIRECTION <u>W</u> <u>↑</u>
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			
35		2	
34			
33		1	
32		1	
31		3	
30		7	
29		7	
28		9	
27		10	
26		11	
25		6	
24		3	
23		4	
22			
21			
20			
TOTAL		64	TOTAL
			74



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
BROWNS VALLEY RD
1600' N. OF AMESTI RD TO 3700' N. OF AMESTI RD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Browns Valley Road from 1600' north of Amesti Road to 3700' north of Amesti Road (Speed Data collected at #243(red barn)).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	44 mph	46 mph
Pace Speed	35-45 mph	38-48 mph
Average Speed	39.43 mph	41.40 mph

ANALYSIS:

The prevailing 85th percentile speeds are 44 MPH and 46 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are safe stopping sight distance, numerous driveways, intersection configurations and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Browns Valley Road			
From:	1600 N of Amesti Rd	53		100.0%
To:	3700 N of Amesti Rd	52		100.0%
Direction:	Northbound	51		100.0%
Weather:	Sunny	50		100.0%
Posted Speed:	40	49		100.0%
Begin time:	1:00 PM	48		100.0%
End time:	1:55 PM	47	1 ♦	100.0%
		46	2 ♦♦	98.2%
		45	3 ♦♦♦	94.6%
			4 ♦♦♦♦	89.3%
		43	3 ♦♦♦	82.1%
		42	7 ♦♦♦♦♦♦♦	76.8%
		41	3 ♦♦♦	64.3%
		40	9 ♦♦♦♦♦♦♦♦♦	58.9%
		39	5 ♦♦♦♦♦	42.9%
CRITICAL SPEED	44	38	3 ♦♦♦	33.9%
AVERAGE SPEED	39.43	37	1 ♦	28.6%
MEDIAN SPEED	40.0	36	2 ♦♦	26.8%
STANDARD DEVIATION	4.23	35	5 ♦♦♦♦♦	23.2%
PACE RANGE	35 - 45	34	4 ♦♦♦♦	14.3%
PERCENTAGE IN PACE	75.0%	33	1 ♦	7.1%
TOTAL # OF AUTOS	56	32	1 ♦	5.4%
		31		3.6%
		30	1 ♦	3.6%
		29		1.8%
		28	1 ♦	1.8%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
				0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

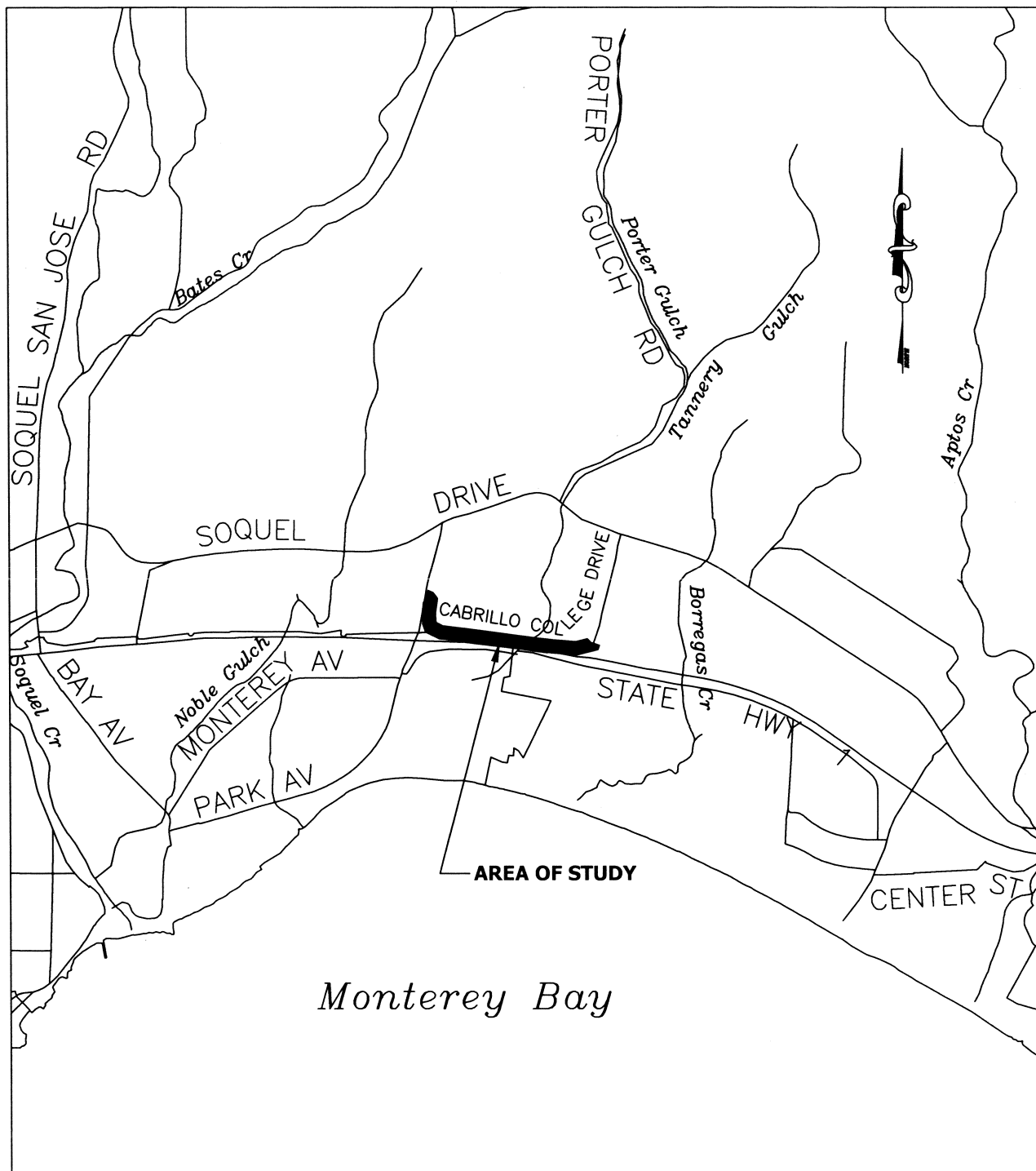
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Browns Valley Road			
From:	1600 N of Amesti Rd	53		100.0%
To:	3700 N of Amesti Rd	52	1 ♦	100.0%
Direction:	Southbound	51		98.0%
Weather:	Sunny	50		98.0%
Posted Speed:	40	49	1 ♦	98.0%
Begin time:	1:00 PM	48	3 ♦♦♦	96.0%
End time:	1:55 PM	47	2 ♦♦	90.0%
		46	3 ♦♦♦	86.0%
		45	4 ♦♦♦♦	80.0%
			4 ♦♦♦♦	72.0%
		43	4 ♦♦♦♦	64.0%
		42	5 ♦♦♦♦♦	56.0%
		41	4 ♦♦♦♦	46.0%
		40	5 ♦♦♦♦♦	38.0%
		39	1 ♦	28.0%
CRITICAL SPEED	46	38	4 ♦♦♦♦	26.0%
AVERAGE SPEED	41.40	37	1 ♦	18.0%
MEDIAN SPEED	42.0	36	3 ♦♦♦	16.0%
STANDARD DEVIATION	5.02	35		10.0%
PACE RANGE	38 - 48	34		10.0%
PERCENTAGE IN PACE	72.0%	33		10.0%
TOTAL # OF AUTOS	50	32	2 ♦♦	10.0%
		31	2 ♦♦	6.0%
		30		2.0%
		29	1 ♦	2.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
				0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION Browns @ Red Barn (#243) BY _____
ROAD NO _____ DATE 10/29/14 DAY WED BEGIN 1:00 END 1:55
POSTED SPEED 40 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES					
MPH	DIRECTION (S) ↓ Corralito	TOTAL OF EACH SPEED	DIRECTION (N) ↑ Hazell Bell	TOTAL OF EACH SPEED	
60					
59					
58					
57					
56					
55					
54					
53					
52		1			
51					
50					
49					
48		1			
47		3		1	
46		2		2	
45		3		3	
44		4		4	
43		4		3	
42		4		7	
41		5		3	
40		4		9	
39		5		5	
38		1		3	
37		4		1	
36		1		2	
35		3		5	
34				4	
33				1	
32				1	
31					
30		2			
29		2		1	
28					
27		1		1	
26					
25					
24					
23					
22					
21					
20					
TOTAL		50	TOTAL		56



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CABRILLO COLLEGE DRIVE
PARK AVENUE TO 0.66 MI EAST**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Cabrillo College Drive from Park Avenue to a distance .66 south easterly. (Speed Data collected at Rosemarie Court).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	40 mph	39 mph
Pace Speed	32-42 mph	31-41 mph
Average Speed	36.35 mph	35.87 mph

ANALYSIS:

The prevailing 85th percentile speeds are 40 MPH and 39MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Cabrillo College Drive				
From:	Park Avenue	46	0		100.0%
To:	.66 mi East of Park Ave	45	1	◆	100.0%
Direction:	WB	44	2	◆◆	98.8%
Weather:	Sunny	43	2	◆◆	96.5%
Posted Speed:	35	42	2	◆◆	94.2%
Begin time:	9:40 AM	41	4	◆◆◆◆	91.9%
End time:	10:57 AM	40	4	◆◆◆◆	87.2%
		39	6	◆◆◆◆◆◆	82.6%
		38	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	75.6%
		37	6	◆◆◆◆◆◆	58.1%
		36	8	◆◆◆◆◆◆◆◆	51.2%
		35	8	◆◆◆◆◆◆◆◆	41.9%
		34	9	◆◆◆◆◆◆◆◆◆	32.6%
		33	8	◆◆◆◆◆◆◆◆	22.1%
		32	4	◆◆◆◆	12.8%
		31	4	◆◆◆◆	8.1%
CRITICAL SPEED	40	30	1	◆	3.5%
AVERAGE SPEED	36.35	29	1	◆	2.3%
MEDIAN SPEED	36.0	28	0		1.2%
STANDARD DEVIATION	3.70	27	0		1.2%
PACE RANGE	32 - 42	26	0		1.2%
PERCENTAGE IN PACE	83.7%	25	0		1.2%
TOTAL # OF AUTOS	86	24	1	◆	1.2%
		23	0		0.0%
		22	0		0.0%
		21	0		0.0%

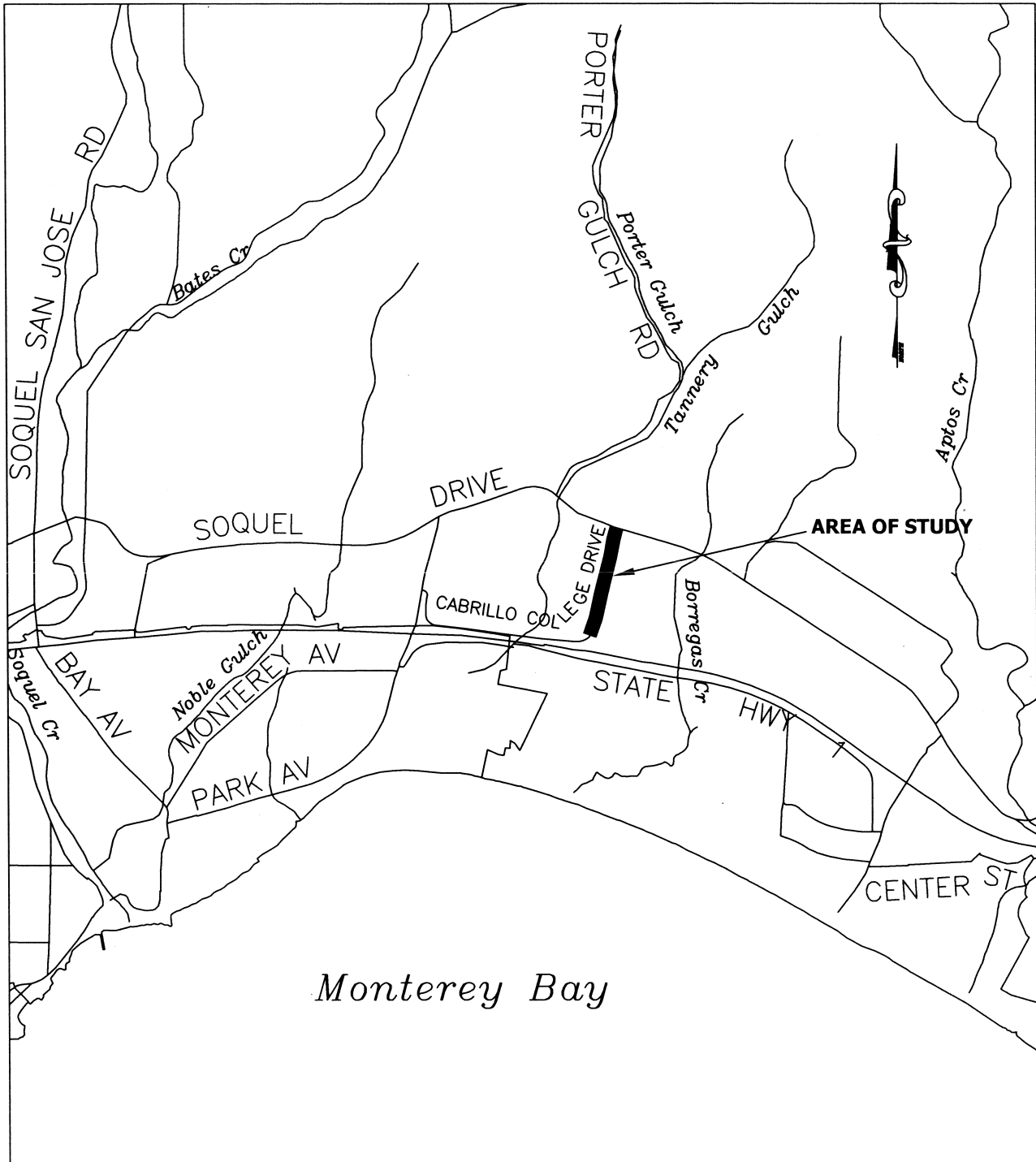
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Cabrillo College Drive			
From:	Park Avenue	48	0	100.0%
To:	.66 mi East of Park Ave	47	1 ♦	100.0%
Direction:	EB	46	0	98.7%
Weather:	Sunny	45	0	98.7%
Posted Speed:	35	44	0	98.7%
Begin time:	9:40 AM	43	0	98.7%
End time:	10:57 AM	42	2 ♦♦	98.7%
		41	2 ♦♦	96.2%
		40	5 ♦♦♦♦♦	93.7%
		39	3 ♦♦♦	87.3%
		38	10 ♦♦♦♦♦♦♦♦♦♦	83.5%
		37	10 ♦♦♦♦♦♦♦♦♦♦	70.9%
		36	10 ♦♦♦♦♦♦♦♦♦♦	58.2%
		35	10 ♦♦♦♦♦♦♦♦♦♦	45.6%
		34	6 ♦♦♦♦♦♦	32.9%
		33	9 ♦♦♦♦♦♦♦♦♦	25.3%
CRITICAL SPEED	39	32	6 ♦♦♦♦♦♦	13.9%
AVERAGE SPEED	35.87	31	3 ♦♦♦	6.3%
MEDIAN SPEED	36.0	30	1 ♦	2.5%
STANDARD DEVIATION	3.17	29	0	1.3%
PACE RANGE	31 - 41	28	1 ♦	1.3%
PERCENTAGE IN PACE	91.1%	27	0	0.0%
TOTAL # OF AUTOS	79	26	0	0.0%
		25	0	0.0%
		24	0	0.0%
		23	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CABRILLO COLLEGE DR. @ ROSEMARIE CT. BY RR
 ROAD NO _____ DATE 9/11/14 DAY _____ BEGIN 9:40 END 10:57
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED _____

NUMBER OF VEHICLES				
MPH	DIRECTION WB	TOTAL OF EACH SPEED	DIRECTION EB	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				1
46				
45		1		
44		2		
43		2		
42		2		2
41		4		2
40		4		5
39		6		3
38		15		10
37		6		10
36		8		10
35		8		10
34		9		6
33		8		9
32		4		6
31		4		3
30		1		1
29		1		
28				1
27				
26				
25		1		
24				
23				
22				
21				
20-				
TOTAL		86	TOTAL 79	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CABRILLO COLLEGE DRIVE
SOQUEL DRIVE TO .34 MI SOUTH**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Cabrillo College Drive from Soquel Drive to a distance .34 miles south. (Speed Data collected at football field parking lot).

PREVAILING SPEED DATA:

The existing speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	30 mph	32 mph
Pace Speed	23-33 mph	24-34 mph
Average Speed	26.52 mph	28.51 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 MPH and 32MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Cabrillo College Drive	35	0	100.0%
From:	.66 mi East of Park Ave	34	1	100.0%
To:	Soquel Drive	33	1	98.3%
Direction:	NB	32	2	96.7%
Weather:	Sunny	31	3	93.3%
Posted Speed:	30	30	3	88.3%
Begin time:	1:24 PM	29	5	83.3%
End time:	2:30 PM	28	9	75.0%
		27	7	60.0%
		26	9	48.3%
		25	3	33.3%
		24	5	28.3%
		23	5	20.0%
		22	2	11.7%
		21	3	8.3%
		20	2	3.3%
CRITICAL SPEED	30	19	0	0.0%
AVERAGE SPEED	26.52	18	0	0.0%
MEDIAN SPEED	27.0	17	0	0.0%
STANDARD DEVIATION	3.26	16	0	0.0%
PACE RANGE	23 - 33	15	0	0.0%
PERCENTAGE IN PACE	85.0%		0	0.0%
TOTAL # OF AUTOS	60		0	
			0	
			0	
			0	
			0	

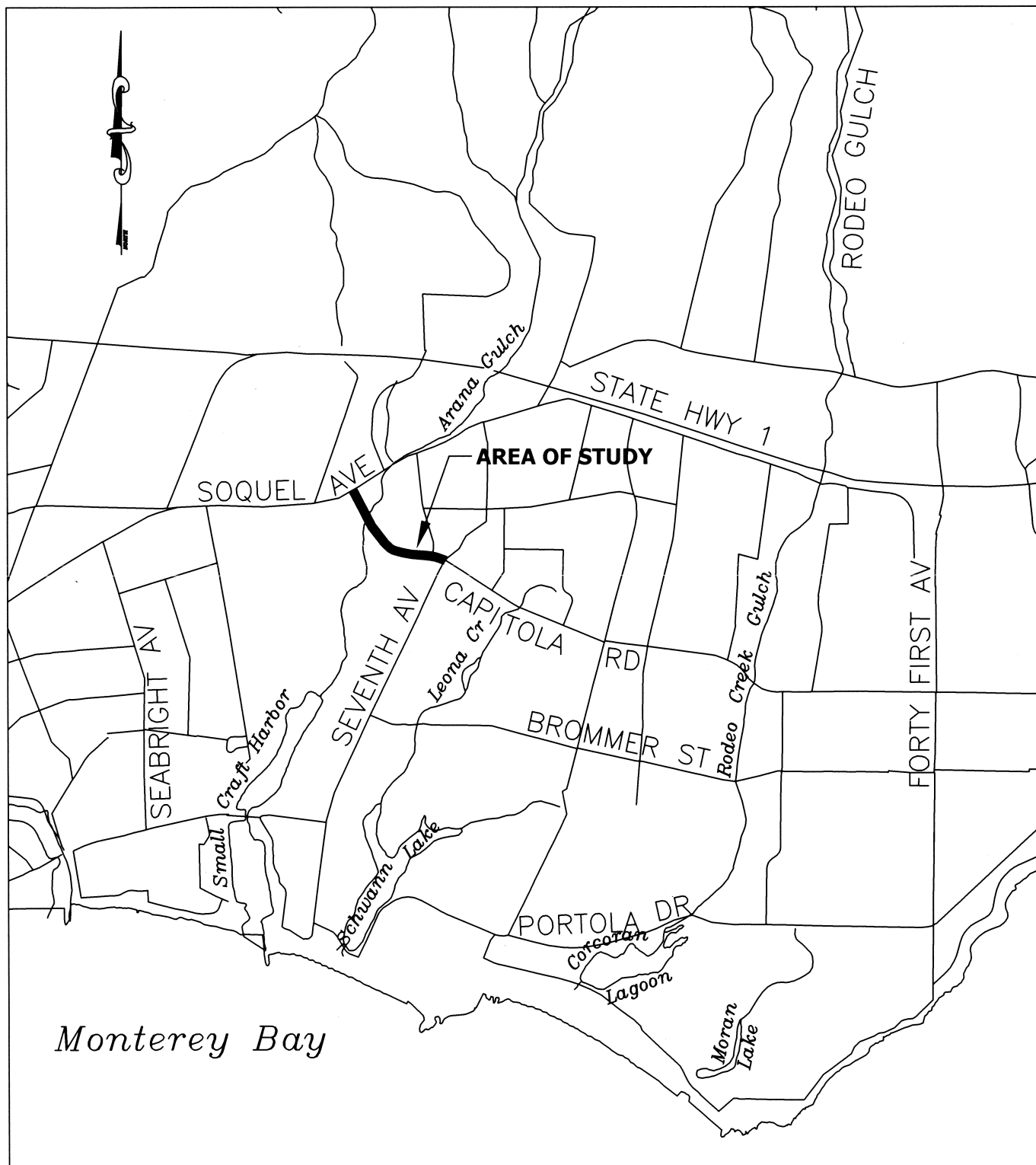
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Cabrillo College Drive	36	0	100.0%
From:	.66 mi East of Park Ave	35	1 ♦	100.0%
To:	Soquel Drive	34	0	98.2%
Direction:	SB	33	1 ♦	98.2%
Weather:	Sunny	32	9 ♦♦♦♦♦♦♦♦	96.5%
Posted Speed:	30	31	4 ♦♦♦♦	80.7%
Begin time:	1:24 PM	30	8 ♦♦♦♦♦♦♦♦	73.7%
End time:	2:30 PM	29	8 ♦♦♦♦♦♦♦♦	59.6%
		28	6 ♦♦♦♦♦♦	45.6%
		27	7 ♦♦♦♦♦♦♦	35.1%
		26	3 ♦♦♦	22.8%
		25	6 ♦♦♦♦♦♦	17.5%
		24	1 ♦	7.0%
		23	0	5.3%
		22	2 ♦♦	5.3%
CRITICAL SPEED	32	21	0	1.8%
AVERAGE SPEED	28.51	20	1 ♦	1.8%
MEDIAN SPEED	29.0	19	0	0.0%
STANDARD DEVIATION	3.00	18	0	0.0%
PACE RANGE	24 - 34	17	0	0.0%
PERCENTAGE IN PACE	93.0%	16	0	0.0%
TOTAL # OF AUTOS	57	15	0	0.0%
			0	
			0	
			0	
			0	

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CABRILLO COLLEGE DRIVE @ FOOTBRIDGE FIELD BY RL
 ROAD NO _____ DATE _____ DAY 4/7/19 BEGIN 1:29 END 2:30
 POSTED SPEED 30 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE _____ CALIBRATED yes

NUMBER OF VEHICLES				
MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB	TOTAL OF EACH SPEED
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				
35				
34		1		1
33		1		1
32		2		5
31		3		3
30		4		5
29		5		5
28		5		5
27		5		5
26		5		5
25		5		5
24		5		
23		5		
22		4		2
21		3		
20-		2		
TOTAL		60	TOTAL 57	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CAPITOLA ROAD
SOQUEL AVENUE TO 7TH AVENUE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Capitola Road from Soquel Avenue to 7th Avenue (Speed Data collected between Harbor View Ct and Shadow Brook Shopping Center)

PREVAILING SPEED DATA:

The existing speed limit is 40 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	43 mph	43 mph
Pace Speed	36-46 mph	32-42 mph
Average Speed	39.1 mph	37.2 mph

ANALYSIS:

The prevailing 85th percentile speed is 43 MPH in both directions of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 40 MPH. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Capitola Road			
From:	7th Avenue	50	1 ♦	100.0%
To:	Soquel Avenue	49	1 ♦	98.3%
Direction:	Eastbound	48	0	96.6%
Weather:	Sunny	47	0	96.6%
Posted Speed:	30	46	0	96.6%
Begin time:	1:30 PM	45	3 ♦♦♦	96.6%
End time:	2:00 PM	44	1 ♦	91.5%
		43	4 ♦♦♦♦	89.8%
		42	2 ♦♦	83.1%
		41	5 ♦♦♦♦♦	79.7%
		40	9 ♦♦♦♦♦♦♦♦♦	71.2%
		39	9 ♦♦♦♦♦♦♦♦♦	55.9%
		38	5 ♦♦♦♦♦	40.7%
		37	4 ♦♦♦♦	32.2%
		36	7 ♦♦♦♦♦♦♦	25.4%
CRITICAL SPEED	43	35	3 ♦♦♦	13.6%
AVERAGE SPEED	39.12	34	1 ♦	8.5%
MEDIAN SPEED	39.0	33	1 ♦	6.8%
STANDARD DEVIATION	3.72	32	3 ♦♦♦	5.1%
PACE RANGE	36 - 46	31	0	0.0%
PERCENTAGE IN PACE	83.1%	30	0	0.0%
TOTAL # OF AUTOS	59	29	0	0.0%
		28	0	0.0%
		27	0	0.0%
		26	0	0.0%
		25	0	0.0%

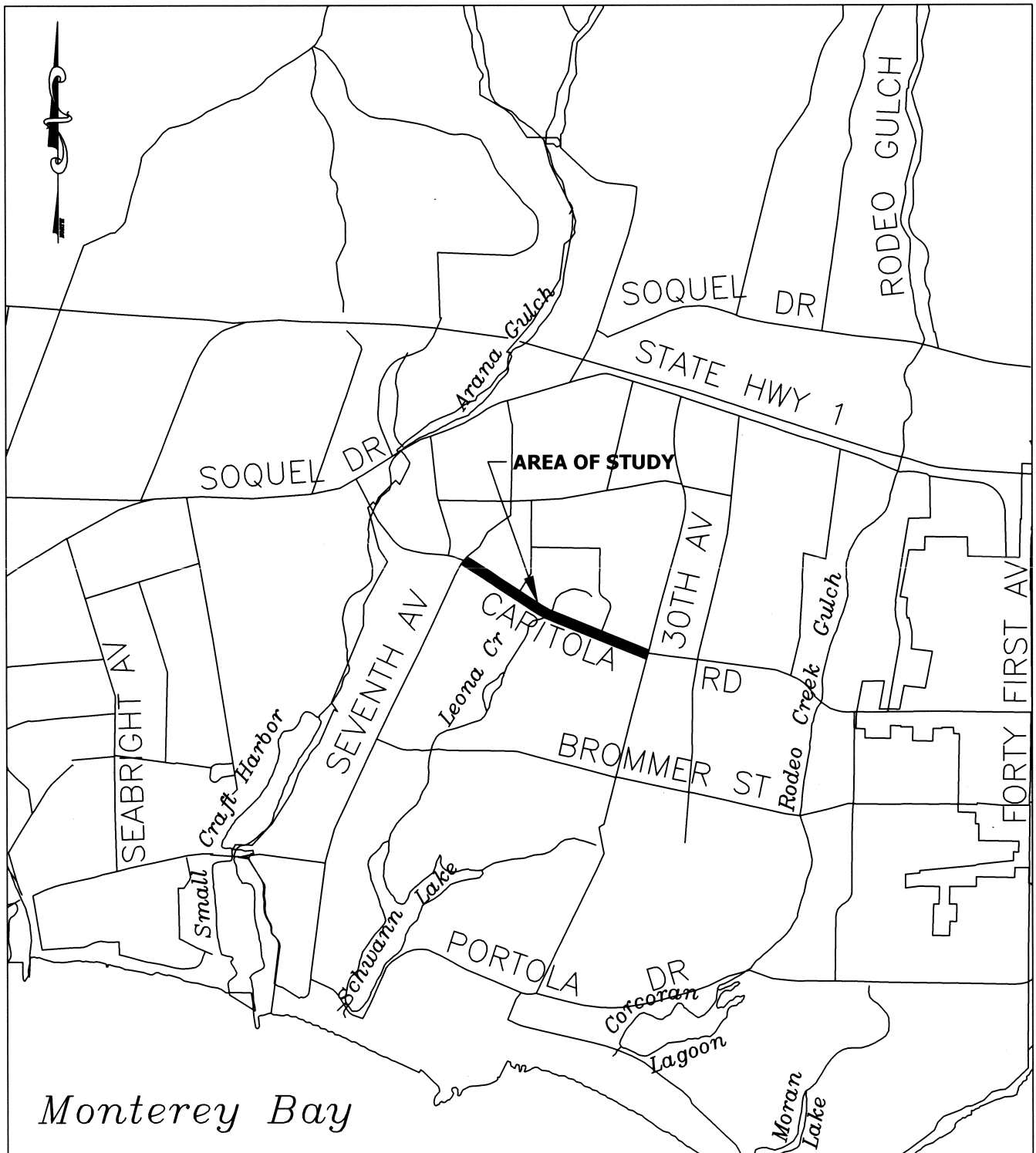
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Capitola Road			
From:	Soquel Avenue	50	0	100.0%
To:	7th Avenue	49	1 ♦	100.0%
Direction:	Eastbound	48	0	98.4%
Weather:	Sunny	47	0	98.4%
Posted Speed:	30	46	0	98.4%
Begin time:	1:30 PM	45	2 ♦♦	98.4%
End time:	2:00 PM	44	3 ♦♦♦	95.2%
		43	4 ♦♦♦♦	90.3%
		42	1 ♦	83.9%
		41	4 ♦♦♦♦	82.3%
		40	4 ♦♦♦♦	75.8%
		39	7 ♦♦♦♦♦♦♦	69.4%
		38	3 ♦♦♦	58.1%
		37	4 ♦♦♦♦	53.2%
		36	4 ♦♦♦♦	46.8%
CRITICAL SPEED	43	35	5 ♦♦♦♦♦	40.3%
AVERAGE SPEED	37.21	34	7 ♦♦♦♦♦♦♦	32.3%
MEDIAN SPEED	37.0	33	2 ♦♦	21.0%
STANDARD DEVIATION	4.55	32	5 ♦♦♦♦♦	17.7%
PACE RANGE	32 - 42	31	3 ♦♦♦	9.7%
PERCENTAGE IN PACE	72.6%	30	1 ♦	4.8%
TOTAL # OF AUTOS	62	29	1 ♦	3.2%
		28	1 ♦	1.6%
		27	0	0.0%
		26	0	0.0%
		25	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CAPITOLA RD 5000-771+ BETWEEN HARBORVIEW CT AND SHADOW BROOK SHOPPING CENTER BY GM
 ROAD NO 2911 DATE 10/2/14 DAY THUR BEGIN 1:30 END 2:00
 POSTED SPEED 30 WEATHER CLEAR 83°
 NUMBER OF LANES 2 GRADE +10% CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION SC - CAPITOLA	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50			/	1
49	/	1	/	1
48				
47				
46				
45	//	2	//	3
44	///	3	/	1
43	////	4	///	4
42	/	1	//	2
41	////	4	////	5
40	////	4	////	9
39	////	7	////	9
38	///	3	///	5
37	///	4	///	4
36	///	4	///	7
35	///	5	///	3
34	///	7	/	1
33	//	2	/	1
32	///	5	///	3
31	///	3		
30	/	1		
29	/	1		
28	/	1		
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		62	TOTAL	59



Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CAPITOLA ROAD
7TH AVENUE TO 30TH AVENUE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Capitola Road from 7th Avenue to 30th Avenue (Speed Data collected at 1356 Capitola Avenue)

PREVAILING SPEED DATA:

The existing speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	35 mph	34 mph
Pace Speed	28-38 mph	26-36 mph
Average Speed	31.5 mph	30.9 mph

ANALYSIS:

The prevailing 85th percentile speeds are 35 MPH and 34 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit be maintained with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Capitola Rd			
From:	30th Ave	45	0	100.0%
To:	7th Avenue	44	0	100.0%
Direction:	Westbound	43	0	100.0%
Weather:	Sunny	42	0	100.0%
Posted Speed:	30	41	1 ♦	100.0%
Begin time:	9:40 AM	40	0	98.4%
End time:	10:25 AM	39	1 ♦	98.4%
		38	1 ♦	96.8%
		37	4 ♦♦♦♦	95.2%
		36	2 ♦♦	88.9%
		35	4 ♦♦♦♦	85.7%
		34	5 ♦♦♦♦♦	79.4%
		33	5 ♦♦♦♦♦	71.4%
		32	6 ♦♦♦♦♦♦	63.5%
		31	9 ♦♦♦♦♦♦♦♦♦	54.0%
CRITICAL SPEED	35	30	5 ♦♦♦♦♦	39.7%
AVERAGE SPEED	31.46	29	6 ♦♦♦♦♦♦	31.7%
MEDIAN SPEED	31.0	28	6 ♦♦♦♦♦♦	22.2%
STANDARD DEVIATION	3.71	27	4 ♦♦♦♦	12.7%
PACE RANGE	28 - 38	26	1 ♦	6.3%
PERCENTAGE IN PACE	82.5%	25	2 ♦♦	4.8%
TOTAL # OF AUTOS	63	24	0	1.6%
		23	0	1.6%
		22	1 ♦	1.6%
		21	0	0.0%
		20	0	0.0%

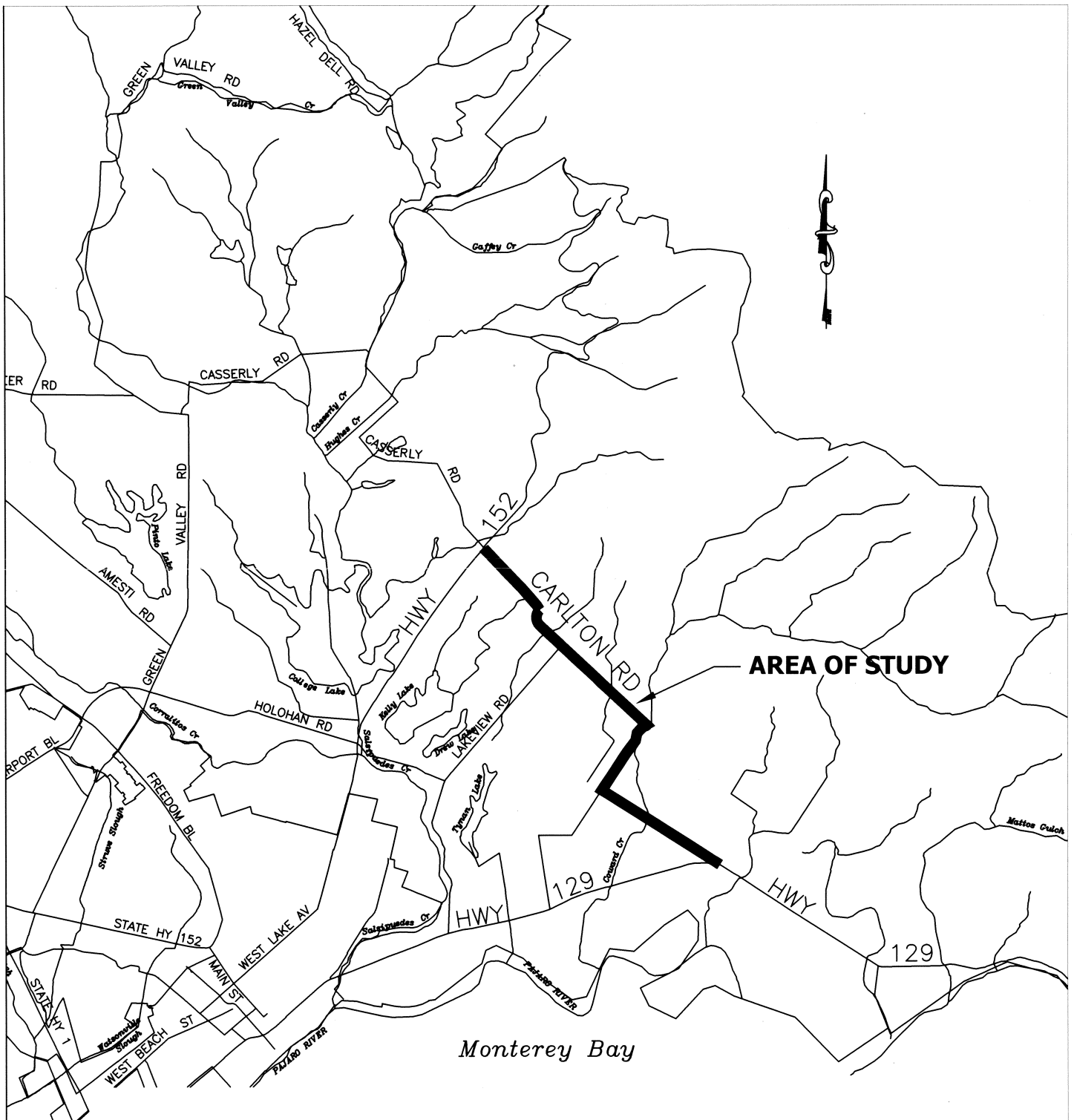
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Capitola Rd	45	0	100.0%
From:	7th Avenue	44	0	100.0%
To:	30th Ave	43	1 ♦	100.0%
Direction:	Eastbound	42	1 ♦	98.4%
Weather:	Sunny	41	1 ♦	96.8%
Posted Speed:	30	40	0	95.2%
Begin time:	10:45 AM	39	0	95.2%
End time:	11:25 AM	38	1 ♦	95.2%
		37	2 ♦♦	93.5%
		36	0	90.3%
		35	3 ♦♦♦	90.3%
		34	1 ♦	85.5%
		33	6 ♦♦♦♦♦♦	83.9%
		32	9 ♦♦♦♦♦♦♦♦	74.2%
		31	8 ♦♦♦♦♦♦♦♦	59.7%
CRITICAL SPEED	34	30	6 ♦♦♦♦♦♦	46.8%
AVERAGE SPEED	30.90	29	6 ♦♦♦♦♦♦	37.1%
MEDIAN SPEED	31.0	28	6 ♦♦♦♦♦♦	27.4%
STANDARD DEVIATION	4.01	27	3 ♦♦♦	17.7%
PACE RANGE	26 - 36	26	4 ♦♦♦♦	12.9%
PERCENTAGE IN PACE	83.9%	25	3 ♦♦♦	6.5%
TOTAL # OF AUTOS	62	24	0	1.6%
		23	1 ♦	1.6%
		22	0	0.0%
		21	0	0.0%
		20	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CAPITOLA 7TH - 30TH 1356 CAPITOLA BY GM
 ROAD NO 2411 DATE 8/2/19 DAY THUR BEGIN 10:45 END 11:25
 POSTED SPEED 30 WEATHER CLEAR/WARM
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION CAP - SC	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43	/	1		
42	/	1		
41	/	1	/	1
40				
39			/	1
38	/	1	/	1
37	//	2	///	4
36			//	2
35	///	3	///	4
34	/	1	///	5
33	////	6	////	5
32	////////	9	////////	6
31	////////	8	////////	9
30	////	6	///	5
29	///	6	////	6
28	////	6	////	6
27	///	3	///	4
26	///	4	/	1
25	///	3	//	2
24				
23	/	1		
22			/	1
21				
20				
TOTAL		62	TOTAL 63	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CARLTON ROAD
STATE HIGHWAY 152 TO STATE HIGHWAY 129**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Carlton Road from State Highway 152 to State Highway 129 (Speed Data collected east of Lakeview Road).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Southbound
85 th Percentile	47 mph	48 mph
Pace Speed	36-46 mph	37-47 mph
Average Speed	40.97 mph	41.38 mph

ANALYSIS:

The prevailing 85th percentile speeds are 47 MPH and 48 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are safe stopping sight distance, Agricultural area with farm equipment and slow trucks, numerous farm workers parked along the roadway and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Carlton Road			
From:	HWY 152	55		100.0%
To:	HWY 129	54		100.0%
Direction:	Eastbound	53	1 ♦	100.0%
Weather:	Sunny	52	2 ♦♦	98.8%
Posted Speed:	40	51	2 ♦♦	96.5%
Begin time:	2:35 PM	50	2 ♦♦	94.2%
End time:	3:19 PM	49		91.9%
		48	3 ♦♦♦	91.9%
		47	3 ♦♦♦	88.4%
			2 ♦♦	84.9%
		45	9 ♦♦♦♦♦♦♦♦	82.6%
		44	5 ♦♦♦♦	72.1%
		43	9 ♦♦♦♦♦♦♦♦	66.3%
		42	5 ♦♦♦♦	55.8%
		41	3 ♦♦♦	50.0%
CRITICAL SPEED	47	40	5 ♦♦♦♦	46.5%
AVERAGE SPEED	40.97	39	6 ♦♦♦♦♦	40.7%
MEDIAN SPEED	41.5	38	2 ♦♦	33.7%
STANDARD DEVIATION	5.50	37	6 ♦♦♦♦♦	31.4%
PACE RANGE	36 - 46	36	3 ♦♦♦	24.4%
PERCENTAGE IN PACE	61.6%	35	6 ♦♦♦♦♦	20.9%
TOTAL # OF AUTOS	86	34	4 ♦♦♦♦	14.0%
		33	3 ♦♦♦	9.3%
		32	3 ♦♦♦	5.8%
		31	1 ♦	2.3%
		30	1 ♦	1.2%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
				0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

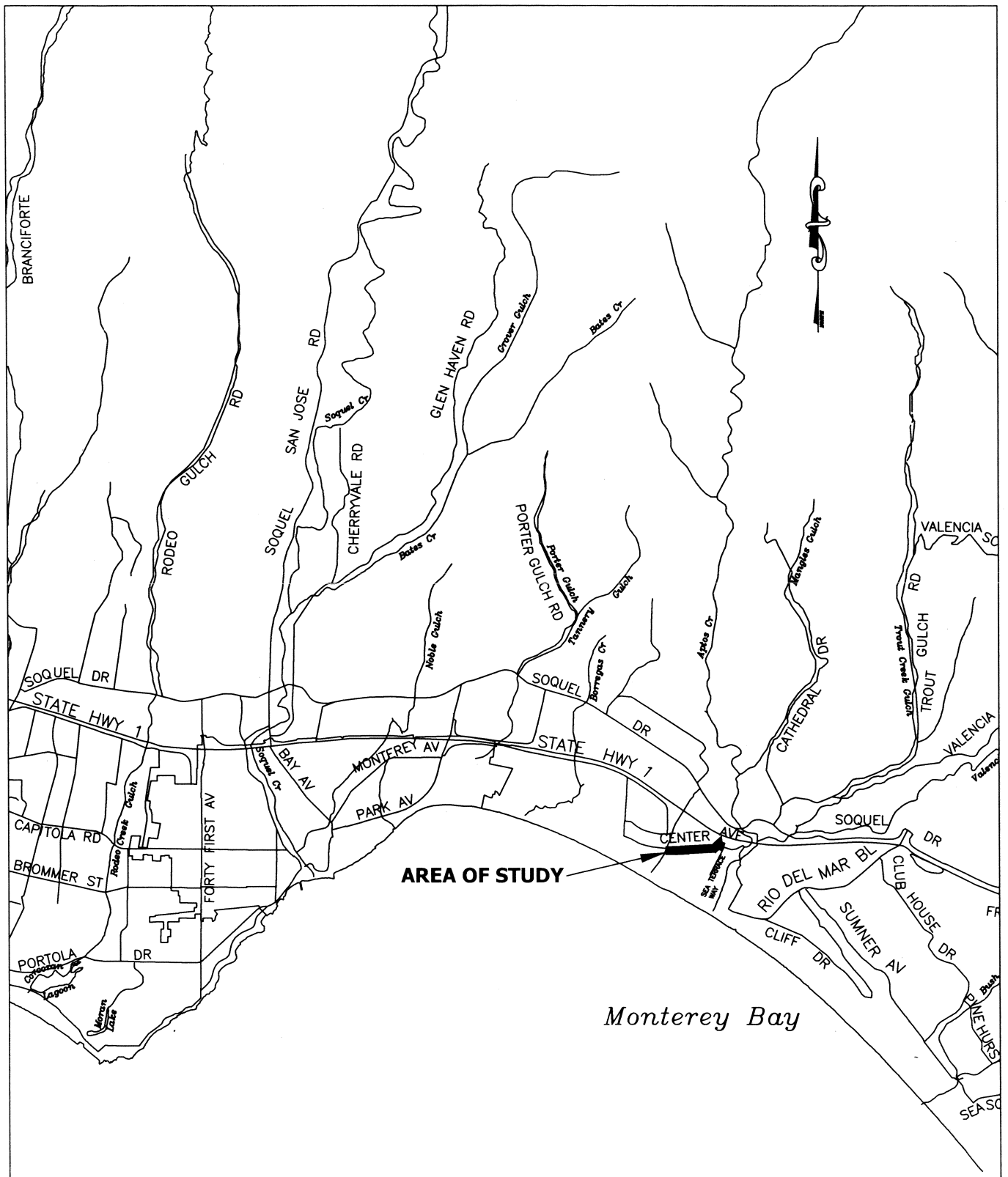
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Carlton Road				
From:	HWY 152	55	1	◆	100.0%
To:	HWY 129	54			98.7%
Direction:	Westbound	53	1	◆	98.7%
Weather:	Sunny	52	4	◆◆◆◆	97.4%
Posted Speed:	40	51	2	◆◆	92.1%
Begin time:	2:35 PM	50			89.5%
End time:	3:19 PM	49	1	◆	89.5%
		48	5	◆◆◆◆◆	88.2%
		47	1	◆	81.6%
			1	◆	80.3%
		45	6	◆◆◆◆◆◆	78.9%
		44	2	◆◆	71.1%
		43	5	◆◆◆◆◆	68.4%
		42	5	◆◆◆◆◆	61.8%
		41	7	◆◆◆◆◆◆◆	55.3%
CRITICAL SPEED	48	40	4	◆◆◆◆	46.1%
AVERAGE SPEED	41.38	39	6	◆◆◆◆◆◆	40.8%
MEDIAN SPEED	41.0	38	6	◆◆◆◆◆◆	32.9%
STANDARD DEVIATION	5.81	37	5	◆◆◆◆◆	25.0%
PACE RANGE	37 - 47	36	1	◆	18.4%
PERCENTAGE IN PACE	61.8%	35	4	◆◆◆◆	17.1%
TOTAL # OF AUTOS	76	34	3	◆◆◆	11.8%
		33	3	◆◆◆	7.9%
		32			3.9%
		31	1	◆	3.9%
		30	2	◆◆	2.6%
		29			0.0%
		28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
					0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION CARLTON RD (HWY 129 - HWY 152) BY JGL
ROAD NO _____ DATE 10/24/14 DAY FRI BEGIN 2:35 END 3:19
POSTED SPEED 40 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION ← 156 (W)	TOTAL OF EACH SPEED	DIRECTION → 129 (E)	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55		1		
54				
53		1		1
52		4		2
51		2		2
50				2
49		1		
48	-	5		3
47		1		3
46		1		2
45	-	6	-	9
44		2	-	5
43		5	-	9
42	-	5		5
41	-	7		3
40		4	-	5
39	-	6	-	6
38	-	6		2
37	-	5	-	6
36		1		3
35		4	-	6
34		3		4
33		3		3
32				3
31		1		1
30		2		1
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		76	TOTAL 86	

105



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CENTER AVENUE
STATE PARK DRIVE TO SEA TERRACE WAY**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Center Avenue from State Park Drive to Sea Terrace Way. (Speed Data collected at Broadway).

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	25 mph	28 mph
Pace Speed	23-33 mph	20-30 mph
Average Speed	22.92 mph	24.28 mph

ANALYSIS:

The prevailing 85th percentile speeds are 25 MPH and 28MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Center Avenue	30	0		100.0%
From:	State Park Drive	29	1	◆	100.0%
To:	Sea Terrace Way	28	0		98.3%
Direction:	EB	27	2	◆◆	98.3%
Weather:	Sunny	26	3	◆◆◆	95.0%
Posted Speed:	25	25	8	◆◆◆◆◆◆◆◆	90.0%
Begin time:	9:27 AM	24	8	◆◆◆◆◆◆◆◆	76.7%
End time:	10:20 AM	23	13	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	63.3%
		22	8	◆◆◆◆◆◆◆◆	41.7%
		21	8	◆◆◆◆◆◆◆◆	28.3%
		20	8	◆◆◆◆◆◆◆◆	15.0%
		19	1	◆	1.7%
		18	0		0.0%
		17	0		0.0%
		16	0		0.0%
CRITICAL SPEED	25	15	0		0.0%
AVERAGE SPEED	22.92		0		
MEDIAN SPEED	23.0		0		
STANDARD DEVIATION	2.11		0		
PACE RANGE	20 - 30		0		
PERCENTAGE IN PACE	98.3%		0		
TOTAL # OF AUTOS	60		0		
			0		
			0		
			0		
			0		
			0		

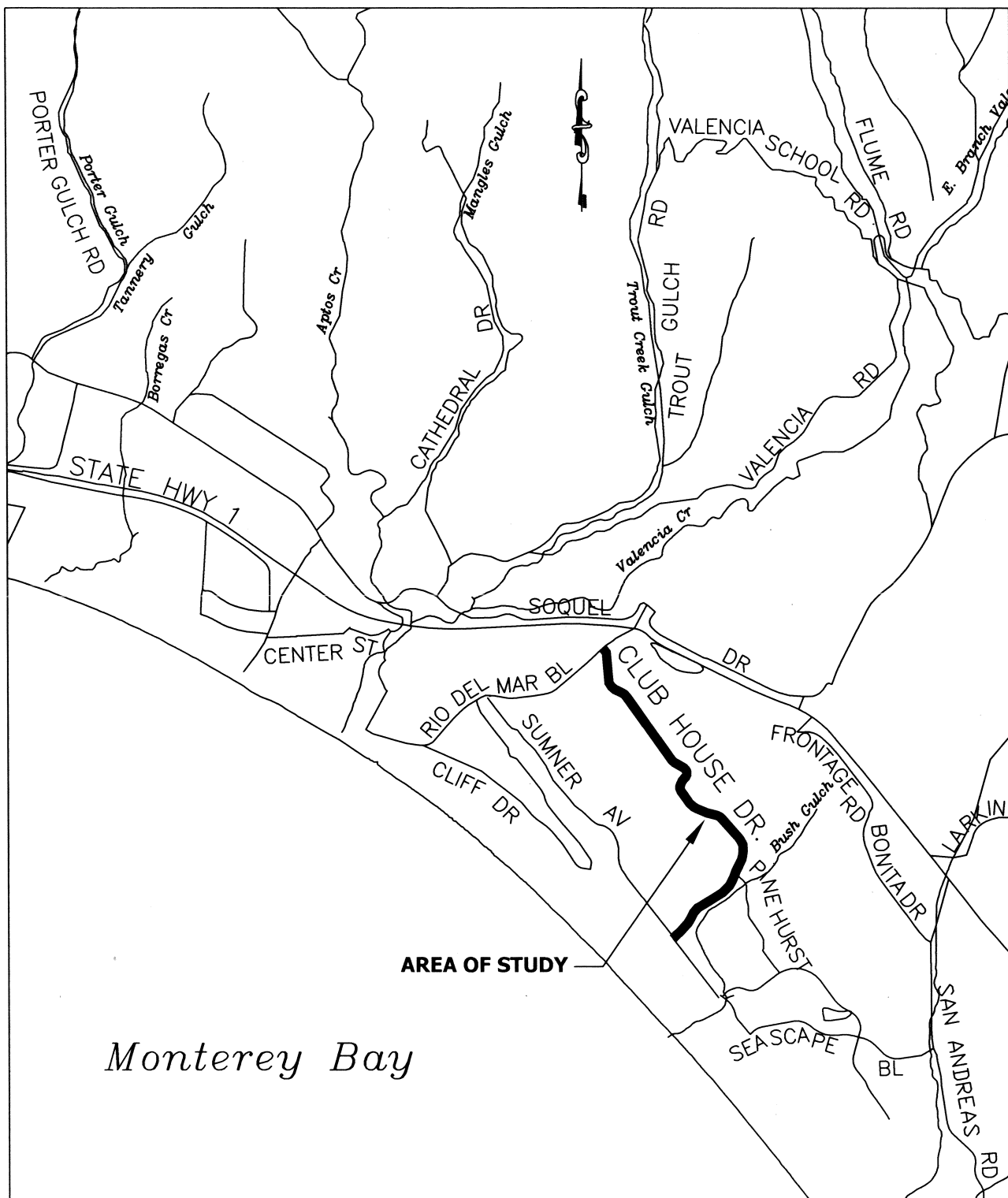
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Center Avenue	32	0	100.0%
From:	State Park Drive	31	1	100.0%
To:	Sea Terrace Way	30	2	98.5%
Direction:	WB	29	4	95.6%
Weather:	Sunny	28	4	89.7%
Posted Speed:	25	27	3	83.8%
Begin time:	9:27 AM	26	7	79.4%
End time:	10:20 AM	25	12	69.1%
		24	8	51.5%
		23	6	39.7%
		22	9	30.9%
		21	4	17.6%
		20	6	11.8%
		19	1	2.9%
		18	1	1.5%
CRITICAL SPEED	28	17	0	0.0%
AVERAGE SPEED	24.28	16	0	0.0%
MEDIAN SPEED	24.0	15	0	0.0%
STANDARD DEVIATION	2.95		0	
PACE RANGE	20 - 30		0	
PERCENTAGE IN PACE	92.6%		0	
TOTAL # OF AUTOS	68		0	
			0	
			0	
			0	
			0	
			0	

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CENTER AVE. AT BROADWAY BY RL
 ROAD NO. _____ DATE 9/16/15 DAY WED BEGIN 9:27 END 10:20
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED YES

NUMBER OF VEHICLES				
MPH	DIRECTION <u>WB</u>	TOTAL OF EACH SPEED	DIRECTION <u>EB</u>	TOTAL OF EACH SPEED
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				
35				
34				
33				
32				
31		1		
30		2		
29		4		1
28		4		
27		3		
26		7		2
25		12		3
24		8		3
23		6		3
22		9		3
21		4		3
20		6		3
	TOTAL	68	19 - 1	TOTAL 55



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
CLUBHOUSE DRIVE
RIO DEL MAR BLVD TO SUMNER AVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Clubhouse Drive. (Speed Data collected south of Pinehurst Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	28 mph	29 mph
Pace Speed	20-30 mph	21-31 mph
Average Speed	24.07 mph	25.51 mph

ANALYSIS:

The prevailing 85th percentile speeds are 28 MPH and 29 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Clubhouse Drive			
From:	Rio Del Mar Boulevard	32	0	100.0%
To:	Sumner Avenue	31	1 ♦	100.0%
Direction:	NB	30	2 ♦♦	98.4%
Weather:	Overcast	29	4 ♦♦♦♦	95.1%
Posted Speed:	25	28	3 ♦♦♦	88.5%
Begin time:	9:44 AM	27	1 ♦	83.6%
End time:	10:58 AM	26	6 ♦♦♦♦♦♦	82.0%
		25	8 ♦♦♦♦♦♦♦♦	72.1%
		24	5 ♦♦♦♦♦	59.0%
		23	10 ♦♦♦♦♦♦♦♦♦♦	50.8%
		22	8 ♦♦♦♦♦♦♦♦	34.4%
		21	8 ♦♦♦♦♦♦♦♦	21.3%
		20	5 ♦♦♦♦♦	8.2%
		19	0	0.0%
		18	0	0.0%
CRITICAL SPEED	28	17	0	0.0%
AVERAGE SPEED	24.07	16	0	0.0%
MEDIAN SPEED	23.0	15	0	0.0%
STANDARD DEVIATION	2.90		0	
PACE RANGE	20 - 30		0	
PERCENTAGE IN PACE	95.1%		0	
TOTAL # OF AUTOS	61		0	
			0	
			0	
			0	
			0	

RADAR SPEED SURVEY

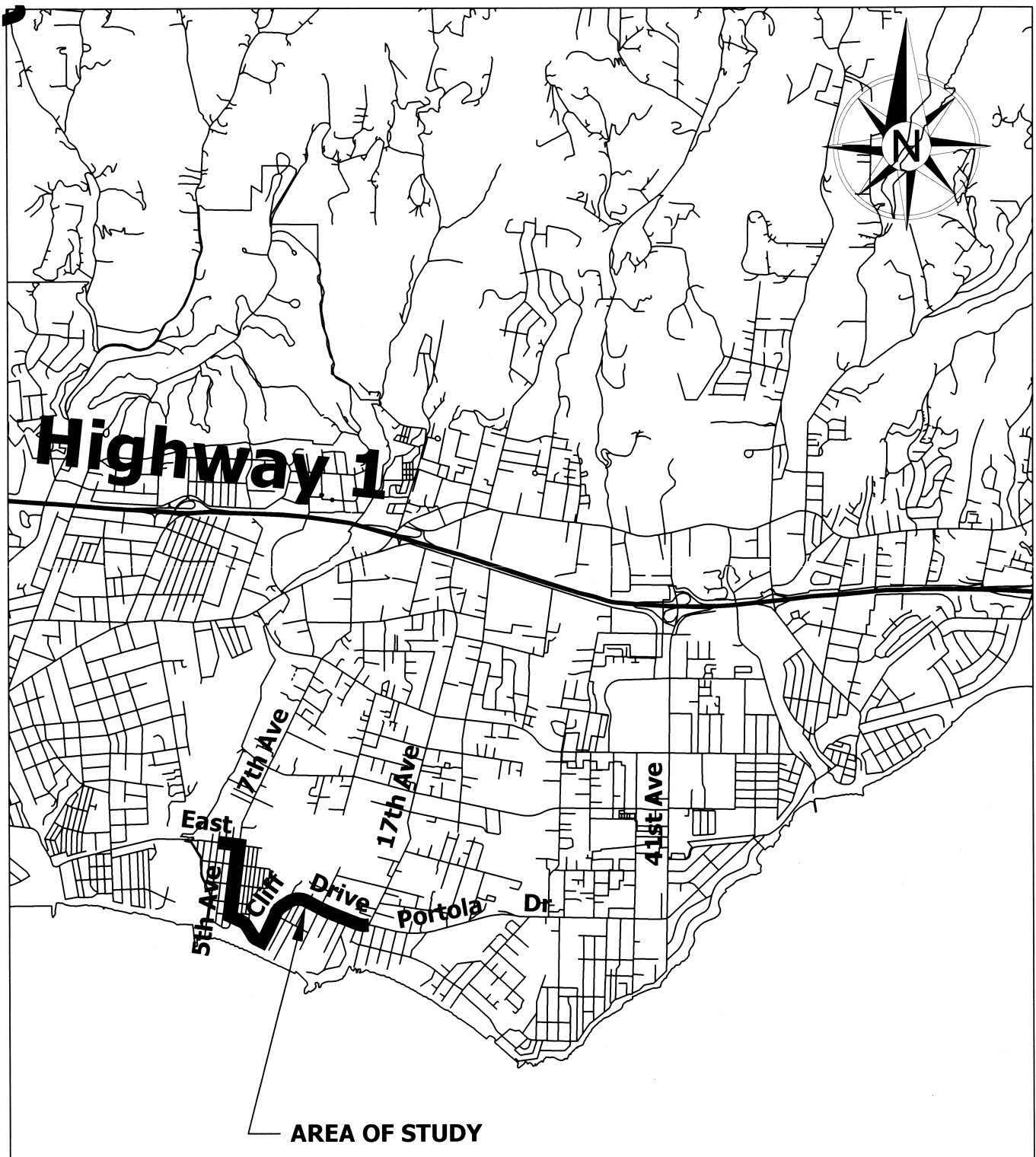
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Clubhouse Drive	33	0		100.0%
From:	Rio Del Mar Boulevard	32	2	♦♦	100.0%
To:	Sumner Avenue	31	1	♦	96.2%
Direction:	SB	30	4	♦♦♦♦	94.3%
Weather:	Overcast	29	3	♦♦♦	86.8%
Posted Speed:	25	28	2	♦♦	81.1%
Begin time:	9:44 AM	27	5	♦♦♦♦♦	77.4%
End time:	10:58 AM	26	7	♦♦♦♦♦♦♦	67.9%
		25	9	♦♦♦♦♦♦♦♦♦	54.7%
		24	7	♦♦♦♦♦♦♦	37.7%
		23	4	♦♦♦♦	24.5%
		22	4	♦♦♦♦	17.0%
		21	4	♦♦♦♦	9.4%
		20	1	♦	1.9%
		19	0		0.0%
CRITICAL SPEED	29	18	0		0.0%
AVERAGE SPEED	25.51	17	0		0.0%
MEDIAN SPEED	25.0	16	0		0.0%
STANDARD DEVIATION	2.98	15	0		0.0%
PACE RANGE	21 - 31		0		
PERCENTAGE IN PACE	92.5%		0		
TOTAL # OF AUTOS	53		0		
			0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CLUBHOUSE DR - SOUTH OF PINE HURST BY RB
 ROAD NO _____ DATE 1/2/15 DAY AM BEGIN 9:44 END 10:52
 POSTED SPEED 25 WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION TO SUMMIT SB	TOTAL OF EACH SPEED	DIRECTION NB	TOTAL OF EACH SPEED
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				
35				
34				
33				
32		2		
31		1		1
30		4		2
29		3		4
28		2		3
27		5		1
26		7		6
25		9		8
24		7		5
23		4		10
22		4		9
21		4		8
20-		1		5
TOTAL		53	TOTAL 61	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
EAST CLIFF DRIVE
5TH AVENUE TO PORTOLA DRIVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

East Cliff Drive between Fifth Avenue and Portola Drive (Speed Data collected between 13th Ave and 14th Ave).

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	30 mph	30 mph
Pace Speed	22-32 mph	25-35 mph
Average Speed	26.3 mph	27.6 mph

ANALYSIS:

The prevailing 85th percentile speed is 30 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are high volume of vehicular, pedestrian and bicycle traffic, shoulder conditions with pedestrians in the roadway without sidewalks, and an arterial route leading to popular beaches. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	East Cliff Drive				
From:	Portola Drive	35	0		100.0%
To:	5th Ave	34	0		100.0%
Direction:	Westbound	33	3	◆◆◆	100.0%
Weather:	Sunny	32	1	◆	95.1%
Posted Speed:	25	31	5	◆◆◆◆◆	93.4%
Begin time:	2:15 PM	30	6	◆◆◆◆◆◆	85.2%
End time:	2:48 PM	29	2	◆◆	75.4%
		28	5	◆◆◆◆◆	72.1%
		27	4	◆◆◆◆	63.9%
		26	5	◆◆◆◆◆	57.4%
		25	9	◆◆◆◆◆◆◆◆◆	49.2%
		24	6	◆◆◆◆◆◆	34.4%
		23	9	◆◆◆◆◆◆◆◆◆	24.6%
		22	4	◆◆◆◆	9.8%
		21	1	◆	3.3%
		20	1	◆	1.6%
CRITICAL SPEED	30				
AVERAGE SPEED	26.34	19	0		0.0%
MEDIAN SPEED	26.0	18	0		0.0%
STANDARD DEVIATION	3.36	17	0		0.0%
PACE RANGE	22 - 32	16	0		0.0%
PERCENTAGE IN PACE	90.2%	15	0		0.0%
TOTAL # OF AUTOS	61				

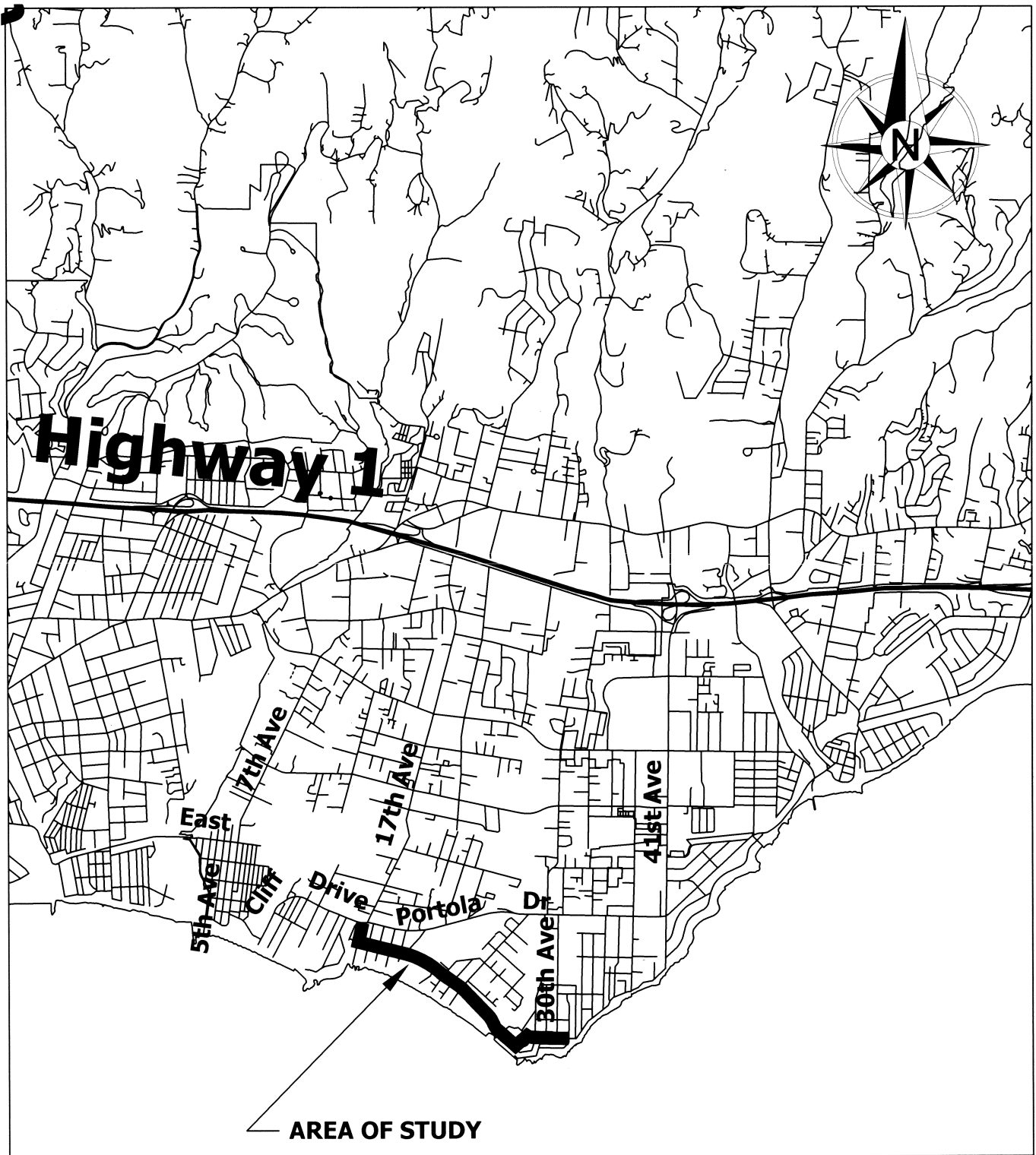
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	East Cliff Drive			
From:	5th Ave	40	0	100.0%
To:	Portola Drive	39	0	100.0%
Direction:	Eastbound	38	0	100.0%
Weather:	Sunny	37	0	100.0%
Posted Speed:	25	36	1 ♦	100.0%
Begin time:	2:15 PM	35	0	98.4%
End time:	2:48 PM	34	3 ♦♦♦	98.4%
		33	0	93.7%
		32	2 ♦♦	93.7%
		31	3 ♦♦♦	90.5%
		30	3 ♦♦♦	85.7%
		29	6 ♦♦♦♦♦♦	81.0%
		28	11 ♦♦♦♦♦♦♦♦♦♦	71.4%
		27	11 ♦♦♦♦♦♦♦♦♦♦	54.0%
		26	13 ♦♦♦♦♦♦♦♦♦♦♦♦	36.5%
CRITICAL SPEED	30	25	4 ♦♦♦♦	15.9%
AVERAGE SPEED	27.56	24	1 ♦	9.5%
MEDIAN SPEED	27.0	23	2 ♦♦	7.9%
STANDARD DEVIATION	2.94	22	1 ♦	4.8%
PACE RANGE	25 - 35	21	2 ♦♦	3.2%
PERCENTAGE IN PACE	88.9%	20	0	0.0%
TOTAL # OF AUTOS	63	19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%
		15	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION EAST CLIFF DRIVE STH - PORTOLA ^{BETWEEN} 13TH + 14TH BY GJM
ROAD NO 2408 DATE 10/2/14 DAY THUR BEGIN 2:15 END 2:48
POSTED SPEED 25 WEATHER 85° CLEAR
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION SC - CAP	TOTAL OF EACH SPEED	DIRECTION CAPITOLA - SANTA CRUZ	TOTAL OF EACH SPEED
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	/	1		
35				
34	///	3		
33			///	3
32	//	2	/	1
31	///	3	///	5
30	///	3	///	6
29	////	6	//	2
28	////	11	///	5
27	////	11	///	4
26	////	13	///	5
25	////	4	///	9
24	/	1	///	6
23	//	2	///	9
22	/	1	///	4
21	//	2	/	1
20-			/	1
TOTAL		63	TOTAL 61	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
EAST CLIFF DRIVE
PORTOLA DRIVE TO 32ND AVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

East Cliff Drive between Portola Drive and 32nd Avenue (Speed Data collected at 22043 East Cliff Drive).

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	33 mph	32 mph
Pace Speed	25-35 mph	24-34 mph
Average Speed	30.0 mph	28.9 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are a prima-facie residential district, high volume of traffic, pedestrian and bicycle traffic, shoulder conditions with pedestrians in the roadway without sidewalks, and an arterial route leading to popular beaches. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

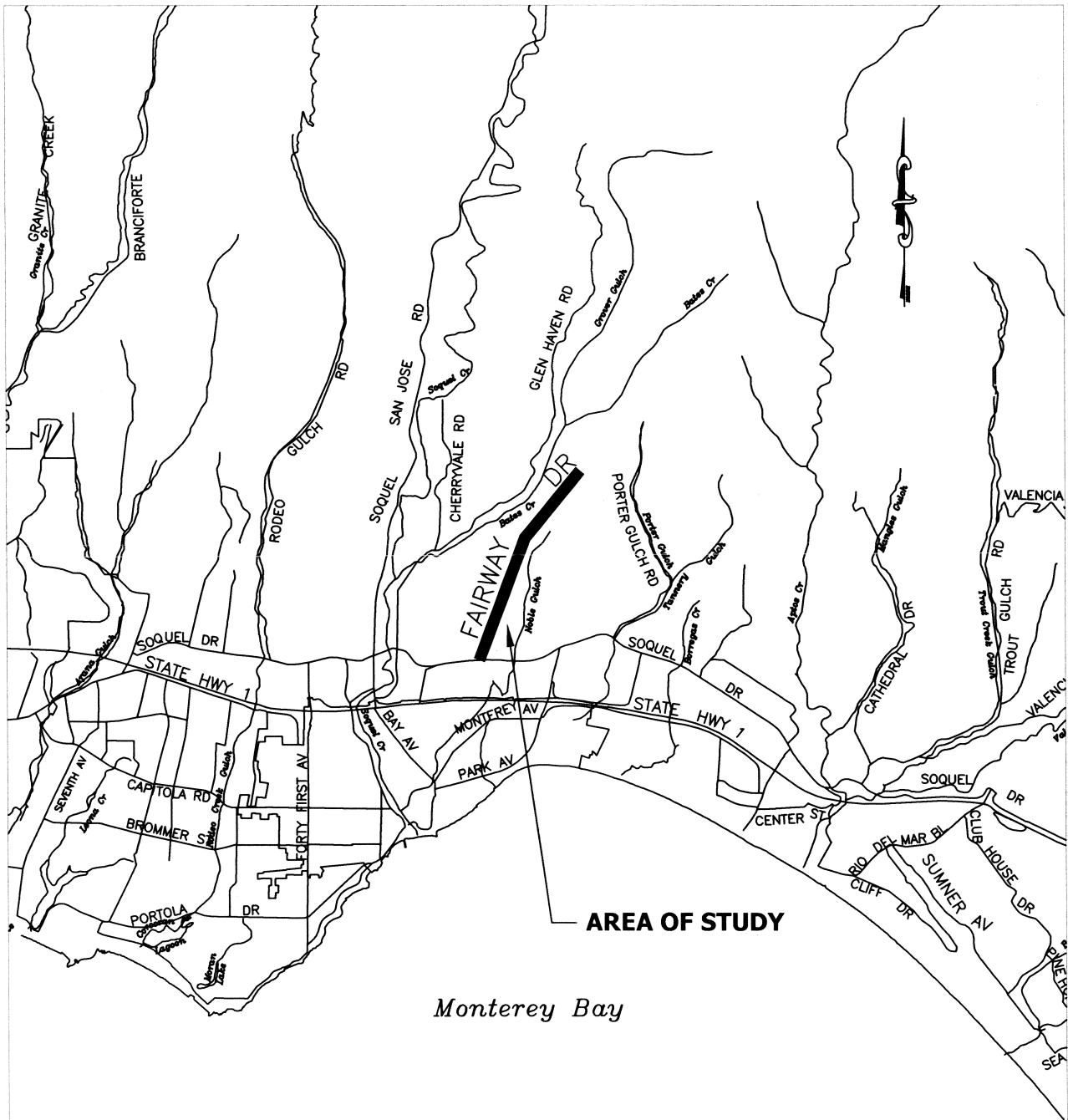
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	East Cliff Drive			
From:	32nd Avenue	40	0	100.0%
To:	Portola Drive	39	1 ♦	100.0%
Direction:	Westbound	38	0	98.1%
Weather:	Sunny	37	0	98.1%
Posted Speed:	25	36	1 ♦	98.1%
Begin time:	10:00 AM	35	1 ♦	96.2%
End time:	10:40 AM	34	4 ♦♦♦♦	94.3%
		33	5 ♦♦♦♦♦	86.8%
		32	4 ♦♦♦♦	77.4%
		31	6 ♦♦♦♦♦♦	69.8%
		30	10 ♦♦♦♦♦♦♦♦♦♦	58.5%
		29	5 ♦♦♦♦♦	39.6%
		28	5 ♦♦♦♦♦	30.2%
		27	6 ♦♦♦♦♦♦	20.8%
		26	3 ♦♦♦	9.4%
		25	2 ♦♦	3.8%
CRITICAL SPEED	33	24	0	0.0%
AVERAGE SPEED	30.19	23	0	0.0%
MEDIAN SPEED	30.0	22	0	0.0%
STANDARD DEVIATION	2.94	21	0	0.0%
PACE RANGE	25 - 35	20	0	0.0%
PERCENTAGE IN PACE	94.3%			
TOTAL # OF AUTOS	53			

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	East Cliff Drive			
From:	Portola Drive	40	0	100.0%
To:	32nd Avenue	39	0	100.0%
Direction:	Eastbound	38	0	100.0%
Weather:	Slight Fog	37	1 ♦	100.0%
Posted Speed:	25	36	1 ♦	98.4%
Begin time:	10:00 AM	35	0	96.8%
End time:	10:40 AM	34	2 ♦♦	96.8%
		33	2 ♦♦	93.5%
		32	5 ♦♦♦♦♦	90.3%
		31	8 ♦♦♦♦♦♦♦	82.3%
		30	8 ♦♦♦♦♦♦♦	69.4%
		29	9 ♦♦♦♦♦♦♦♦	56.5%
		28	6 ♦♦♦♦♦	41.9%
		27	7 ♦♦♦♦♦♦	32.3%
		26	3 ♦♦♦	21.0%
CRITICAL SPEED	32	25	5 ♦♦♦♦♦	16.1%
AVERAGE SPEED	28.92	24	3 ♦♦♦	8.1%
MEDIAN SPEED	29.0	23	1 ♦	3.2%
STANDARD DEVIATION	3.09	22	1 ♦	1.6%
PACE RANGE	24 - 34	21	0	0.0%
PERCENTAGE IN PACE	90.3%	20	0	0.0%
TOTAL # OF AUTOS	62			

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION <u>EAST CLIFF PORTOLA TO 32ND</u> <u>22043 EAST CLIFF DR</u> BY <u>GJM</u>				
ROAD NO <u>2408</u> DATE <u>10/8/14</u> DAY <u>Wed</u> BEGIN <u>10:00</u> END <u>10:40</u>				
POSTED SPEED <u>25</u> WEATHER <u>SLIGHT FOG</u>				
NUMBER OF LANES <u>2</u> GRADE <u>8%</u> CALIBRATED <u>✓</u>				
NUMBER OF VEHICLES				
MPH	DIRECTION <u>CAP-SC</u>	TOTAL OF EACH SPEED	DIRECTION <u>PORTOLA DR TO 32ND AVE</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39	/	1		
38				
37			/	1
36	/	1	/	1
35	/	1		
34	////	4	//	2
33	////	5	//	2
32	////	4	////	5
31	////	6	////	8
30	////////	10	////////	8
29	////	5	////////	9
28	////	5	////	6
27	////	6	////	7
26	///	3	///	3
25	//	2	///	5
24			///	3
23			/	1
22			/	1
21				
20				
TOTAL		53	TOTAL 62	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
FAIRWAY DRIVE
ENTIRE LENGTH**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Fairway Drive. (Speed Data collected At Golf Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	32 mph	31 mph
Pace Speed	24-34 mph	24-34 mph
Average Speed	27.67 mph	27.41 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH and 31 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are prima-facie residential district, shoulder conditions with pedestrians in the roadway without sidewalks, safe stopping sight distance, and a tree lined roadway. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Fairway Drive	35	0		100.0%
From:	Soquel Drive	34	5	♦♦♦♦♦	100.0%
To:	End of road	33	7	♦♦♦♦♦♦♦	94.1%
Direction:	NB	32	3	♦♦♦	85.9%
Weather:	Sunny	31	3	♦♦♦	82.4%
Posted Speed:	25	30	7	♦♦♦♦♦♦♦	78.8%
Begin time:	2:15 PM	29	5	♦♦♦♦♦	70.6%
End time:	3:19 PM	28	12	♦♦♦♦♦♦♦♦♦♦♦♦	64.7%
		27	11	♦♦♦♦♦♦♦♦♦♦♦	50.6%
		26	9	♦♦♦♦♦♦♦♦♦	37.6%
		25	7	♦♦♦♦♦♦♦	27.1%
		24	6	♦♦♦♦♦♦	18.8%
		23	2	♦♦	11.8%
		22	7	♦♦♦♦♦♦♦	9.4%
		21	1	♦	1.2%
CRITICAL SPEED	32	20	0		0.0%
AVERAGE SPEED	27.67	19	0		0.0%
MEDIAN SPEED	27.0	18	0		0.0%
STANDARD DEVIATION	3.47	17	0		0.0%
PACE RANGE	24 - 34	16	0		0.0%
PERCENTAGE IN PACE	82.4%	15	0		0.0%
TOTAL # OF AUTOS	85		0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY

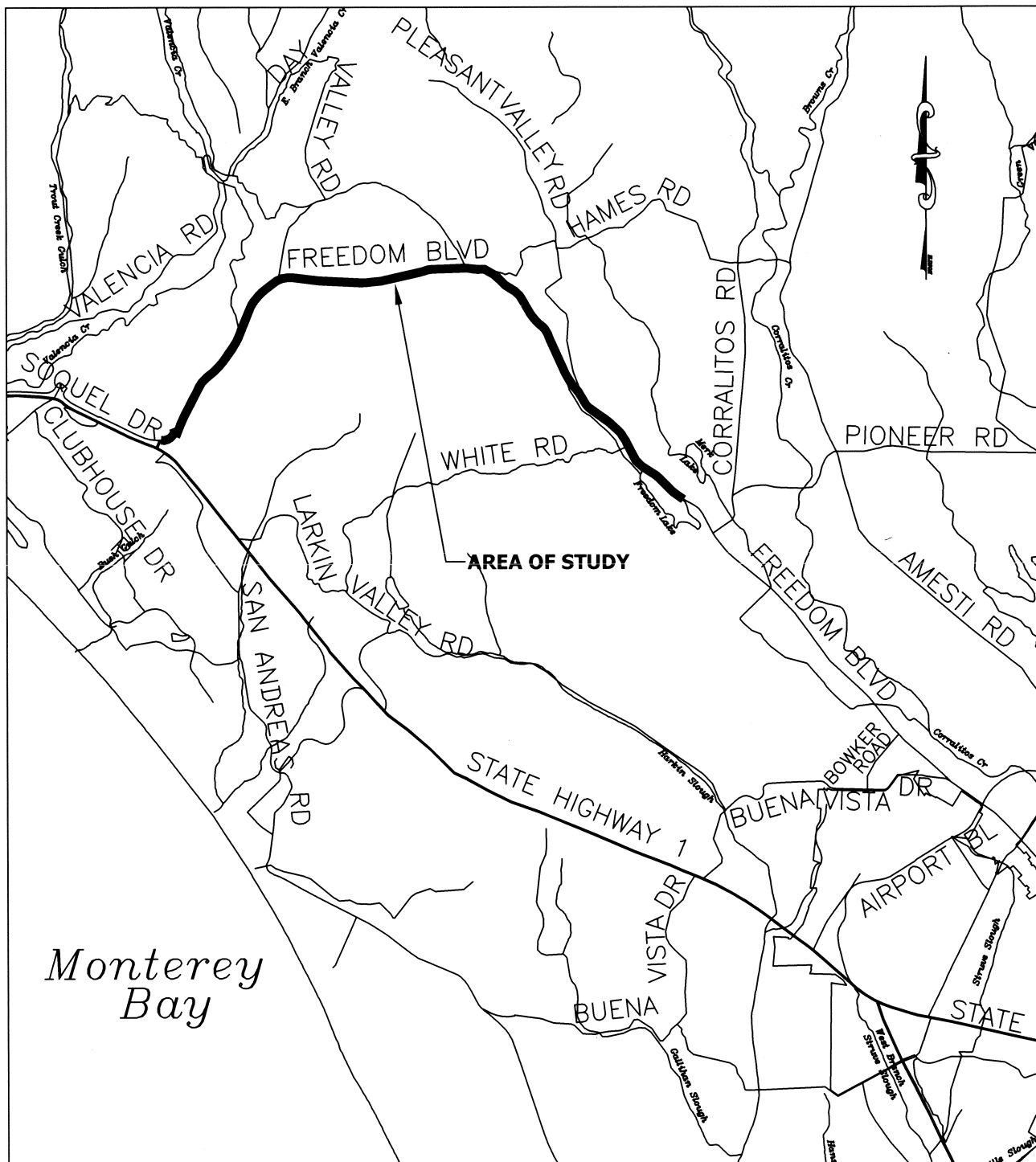
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Fairway Drive	35	0		100.0%
From:	Soquel Drive	34	1	♦	100.0%
To:	End of road	33	3	♦♦♦	98.6%
Direction:	SB	32	2	♦♦	94.2%
Weather:	Sunny	31	6	♦♦♦♦♦♦	91.3%
Posted Speed:	25	30	8	♦♦♦♦♦♦♦♦	82.6%
Begin time:	2:15 PM	29	6	♦♦♦♦♦♦	71.0%
End time:	3:19 PM	28	11	♦♦♦♦♦♦♦♦♦♦	62.3%
		27	7	♦♦♦♦♦♦♦	46.4%
		26	10	♦♦♦♦♦♦♦♦♦♦	36.2%
		25	4	♦♦♦♦	21.7%
		24	2	♦♦	15.9%
		23	1	♦	13.0%
		22	3	♦♦♦	11.6%
		21	0		7.2%
CRITICAL SPEED	31	20	5	♦♦♦♦♦	7.2%
AVERAGE SPEED	27.41	19	0		0.0%
MEDIAN SPEED	28.0	18	0		0.0%
STANDARD DEVIATION	3.38	17	0		0.0%
PACE RANGE	24 - 34	16	0		0.0%
PERCENTAGE IN PACE	85.5%	15	0		0.0%
TOTAL # OF AUTOS	69		0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION FAIRWAY DRIVE AT GOLF DRIVE BY RK
ROAD NO _____ DATE 10/6/14 DAY _____ BEGIN 2:16 END 3:19
POSTED SPEED 25 MPH WEATHER SUNNY
NUMBER OF LANES 2 GRADE _____ CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION SB	TOTAL OF EACH SPEED	DIRECTION NB	TOTAL OF EACH SPEED
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				
35				
34		1		5
33		3		2
32		2		3
31		4		3
30		5		5
29		5		4
28		5		5
27		5		5
26		5		5
25		5		5
24		2		4
23		1		3
22		3		4
21				1
20		4		
TOTAL		69	TOTAL 85	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
FREEDOM BOULEVARD
SOQUEL DR TO 0.3 MI WEST OF CORRALITOS RD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Freedom Boulevard from Soquel Drive to 0.3 miles west of Corralitos Road (speed data collected north of Sand Rock Farm).

PREVAILING SPEED DATA:

The existing speed limit is 45 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	49 mph	49 mph
Pace Speed	39-49 mph	41-51 mph
Average Speed	44.06 mph	44.82 mph

ANALYSIS:

The prevailing 85th percentile speed is 49 MPH on both direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Freedom Boulevard			
From:	Soquel Dr	55		100.0%
To:	0.3 m W of Corralitos Rd	54		100.0%
Direction:	Westbound	53	1 ♦	100.0%
Weather:	Sunny	52	2 ♦♦	98.9%
Posted Speed:	45	51	4 ♦♦♦♦	96.6%
Begin time:	12:55 PM	50	3 ♦♦♦	92.1%
End time:	1:09 PM	49	4 ♦♦♦♦	88.8%
		48	7 ♦♦♦♦♦♦♦	84.3%
		47	9 ♦♦♦♦♦♦♦♦	76.4%
		46	5 ♦♦♦♦♦	66.3%
		45	9 ♦♦♦♦♦♦♦♦	60.7%
		44	9 ♦♦♦♦♦♦♦♦	50.6%
		43	7 ♦♦♦♦♦♦♦	40.4%
		42	4 ♦♦♦♦	32.6%
		41	2 ♦♦	28.1%
		40	5 ♦♦♦♦♦	25.8%
CRITICAL SPEED	49	39	6 ♦♦♦♦♦♦	20.2%
AVERAGE SPEED	44.06	38	4 ♦♦♦♦	13.5%
MEDIAN SPEED	44.0	37	3 ♦♦♦	9.0%
STANDARD DEVIATION	4.51	36	2 ♦♦	5.6%
PACE RANGE	39 - 49	35	2 ♦♦	3.4%
PERCENTAGE IN PACE	70.8%	34	1 ♦	1.1%
TOTAL # OF AUTOS	89	33		0.0%
		32		0.0%
		31		0.0%
		30		0.0%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard				
From:	Soquel Dr	55			100.0%
To:	0.3 m W of Corralitos Rd	54			100.0%
Direction:	Estbound	53			100.0%
Weather:	Sunny	52	1	◆	100.0%
Posted Speed:	45	51	4	◆◆◆◆	98.7%
Begin time:	12:55 PM	50	6	◆◆◆◆◆◆	93.6%
End time:	1:09 PM	49	4	◆◆◆◆	85.9%
		48	7	◆◆◆◆◆◆◆	80.8%
		47	7	◆◆◆◆◆◆◆	71.8%
		46	6	◆◆◆◆◆◆	62.8%
		45	9	◆◆◆◆◆◆◆◆◆	55.1%
		44	8	◆◆◆◆◆◆◆◆	43.6%
		43	6	◆◆◆◆◆◆	33.3%
		42	3	◆◆◆	25.6%
		41	6	◆◆◆◆◆◆	21.8%
CRITICAL SPEED	49	40	2	◆◆	14.1%
AVERAGE SPEED	44.82	39	4	◆◆◆◆	11.5%
MEDIAN SPEED	45.0	38	1	◆	6.4%
STANDARD DEVIATION	4.05	37	1	◆	5.1%
PACE RANGE	41 - 51	36	1	◆	3.8%
PERCENTAGE IN PACE	79.5%	35	1	◆	2.6%
TOTAL # OF AUTOS	78	34	1	◆	1.3%
		33			0.0%
		32			0.0%
		31			0.0%
		30			0.0%
		29			0.0%
		28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION <u>FREEDOM</u> (<u>SOQUEL - CORRAVILLO @ Sand Port Farm</u>) BY <u>VGL</u>				
ROAD NO _____		DATE <u>10/28/14</u>	DAY <u>TUE</u>	BEGIN <u>1255</u> END <u>109 pm</u>
POSTED SPEED <u>45</u>		WEATHER <u>SUNNY</u>		
NUMBER OF LANES <u>2</u>		GRADE <u>2%</u>		CALIBRATED <u>✓</u>
NUMBER OF VEHICLES				
MPH	DIRECTION <u>W</u> <u>↓ SOQUEL</u>	TOTAL OF EACH SPEED	DIRECTION <u>E</u> <u>↑ CORRAVILLO</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53		1		
52		2		1
51		4		4
50		3	-	6
49		4		4
48	-	7	-	7
47	-	9	-	7
46	-	5	-	6
45	-	9	-	9
44	-	9	-	8
43	-	7	-	6
42		4		3
41		2		6
40	-	5		2
39	-	6		4
38		4		1
37		2		1
36		2		1
35		2		1
34		1		1
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		82	TOTAL	
			73	

CITY OF
WATSONVILLE

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Freedom Boulevard from 0.3 miles west of Corralitos Road to 0.2 miles east of Corralitos Road (speed data collected west of Corralitos Road).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	46 mph	46 mph
Pace Speed	38-48 mph	37-47 mph
Average Speed	41.84 mph	41.62 mph

ANALYSIS:

The prevailing 85th percentile speeds is 46 MPH on both direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are Business District on both sides of the road, bus stops, commercial driveways, and pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Freedom Boulevard			
From:	0.3 m W of Corralitos Rd	51	2 ♦♦	100.0%
To:	0.2 m E of Corralitos Rd	50	1 ♦	97.3%
Direction:	Eastbound	49		95.9%
Weather:	Sunny	48		95.9%
Posted Speed:	40	47	5 ♦♦♦♦♦	95.9%
Begin time:	1:22 PM	46	5 ♦♦♦♦♦	89.0%
End time:	1:40 PM	45	3 ♦♦♦	82.2%
		44	7 ♦♦♦♦♦♦♦	78.1%
		43	4 ♦♦♦♦	68.5%
		42	9 ♦♦♦♦♦♦♦♦♦	63.0%
		41	6 ♦♦♦♦♦♦	50.7%
		40	7 ♦♦♦♦♦♦♦	42.5%
		39	9 ♦♦♦♦♦♦♦♦♦	32.9%
		38	6 ♦♦♦♦♦♦	20.5%
		37	6 ♦♦♦♦♦♦	12.3%
CRITICAL SPEED	46	36		4.1%
AVERAGE SPEED	41.62	35		4.1%
MEDIAN SPEED	41.0	34	2 ♦♦	4.1%
STANDARD DEVIATION	3.82	33	1 ♦	1.4%
PACE RANGE	37 - 47	32		0.0%
PERCENTAGE IN PACE	84.9%	31		0.0%
TOTAL # OF AUTOS	73	30		0.0%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

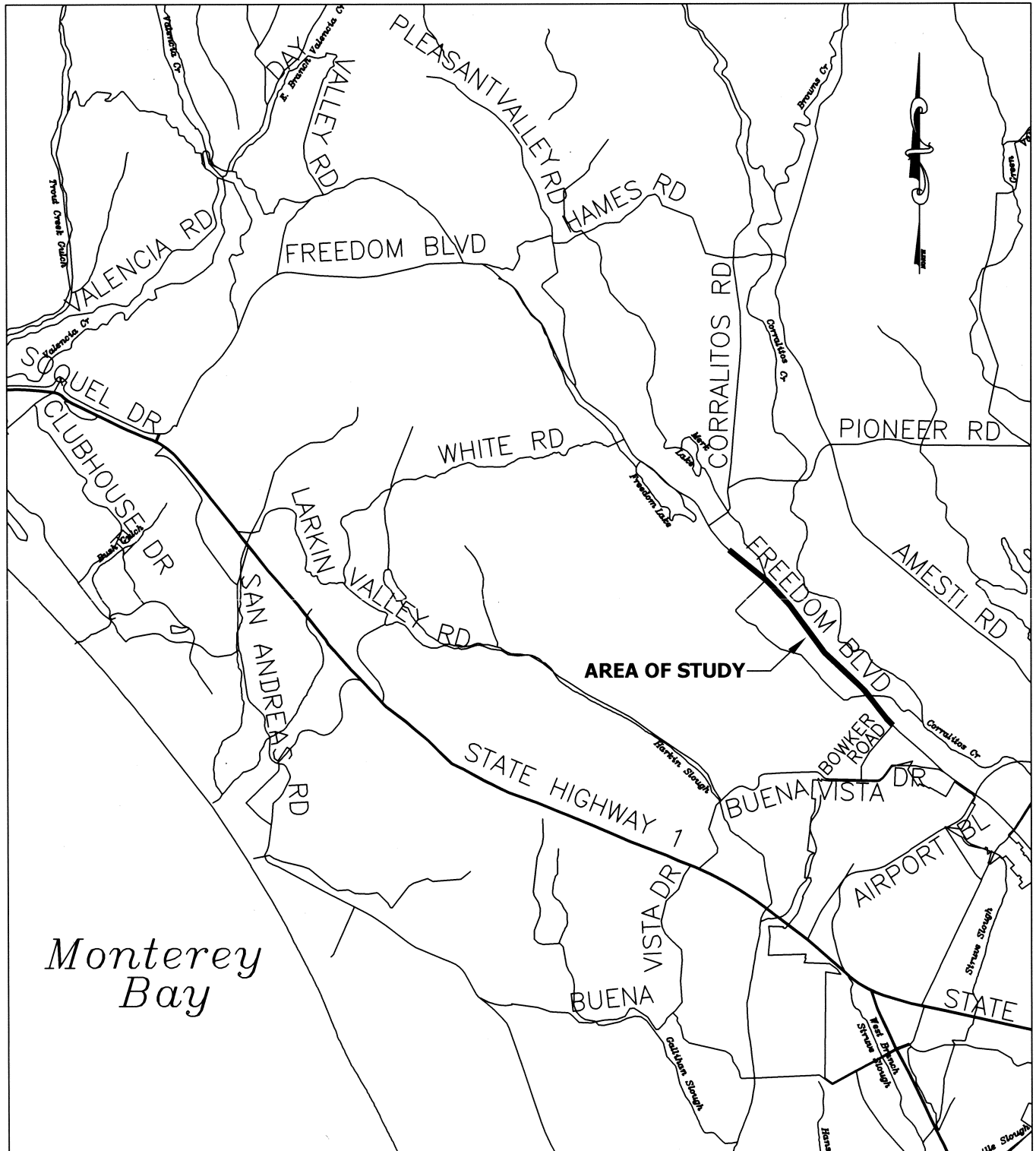
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Freedom Boulevard			
From:	0.3 m W of Corralitos Rd	55		100.0%
To:	0.2 m E of Corralitos Rd	54		100.0%
Direction:	Westbound	53		100.0%
Weather:	Sunny	52		100.0%
Posted Speed:	40	51		100.0%
Begin time:	1:22 PM	50	1 ♦	100.0%
End time:	1:40 PM	49	2 ♦♦	98.4%
		48	1 ♦	95.2%
		47	3 ♦♦♦	93.7%
		46	4 ♦♦♦♦	88.9%
		45	3 ♦♦♦	82.5%
		44	1 ♦	77.8%
		43	10 ♦♦♦♦♦♦♦♦♦♦	76.2%
		42	11 ♦♦♦♦♦♦♦♦♦♦♦	60.3%
		41	4 ♦♦♦♦	42.9%
CRITICAL SPEED	46	40	5 ♦♦♦♦♦	36.5%
AVERAGE SPEED	41.84	39	10 ♦♦♦♦♦♦♦♦♦♦	28.6%
MEDIAN SPEED	42.0	38	4 ♦♦♦♦	12.7%
STANDARD DEVIATION	3.57	37	1 ♦	6.3%
PACE RANGE	38 - 48	36		4.8%
PERCENTAGE IN PACE	87.3%	35	1 ♦	4.8%
TOTAL # OF AUTOS	63	34		3.2%
		33	2 ♦♦	3.2%
		32		0.0%
		31		0.0%
		30		0.0%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION FREEDOM C E C WHITE (0.3 W of Concrete - 0.2 F of Concrete) BY JGL
 ROAD NO _____ DATE 10/28/14 DAY TUE BEGIN 122 END 140
 POSTED SPEED 40 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION (E) ↑ <i>W. of Hwy 91</i>	TOTAL OF EACH SPEED	DIRECTION (W) ↓ <i>S. of Hwy 91</i>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51		2		
50		1		1
49				2
48				1
47		5		3
46		5		4
45		3		3
44	-	7		1
43		4	-	10
42	-	9	- -	11
41	-	6		4
40	-	7	-	5
39	-	9	-	10
38	-	6		4
37	-	6		1
36				
35		2		1
34		1		
33				2
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		73	TOTAL 63	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
FREEDOM BOULEVARD
0.2 MI EAST OF CORRALITOS RD TO BOWKER RD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Freedom Boulevard from 0.2 miles east of Corralitos Road to Bowker Road (speed data collected east of Corralitos Road).

PREVAILING SPEED DATA:

The existing speed limit is 45 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	48 mph	48 mph
Pace Speed	40-50 mph	40-50 mph
Average Speed	44.26 mph	44.99 mph

ANALYSIS:

The prevailing 85th percentile speeds is 48 MPH on both direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 45 MPH. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard				
From:	0.2 m E of Corralitos Rd	51	1	◆	100.0%
To:	Bowker Rd	50	1	◆	98.6%
Direction:	Eastbound	49	5	◆◆◆◆◆	97.2%
Weather:	Cloudy	48	4	◆◆◆◆	90.3%
Posted Speed:	45	47	12	◆◆◆◆◆◆◆◆◆◆◆◆	84.7%
Begin time:	10:55 AM	46	4	◆◆◆◆	68.1%
End time:	11:10 AM	45	9	◆◆◆◆◆◆◆◆◆	62.5%
		44	9	◆◆◆◆◆◆◆◆◆	50.0%
		43	6	◆◆◆◆◆	37.5%
		42	8	◆◆◆◆◆◆◆	29.2%
		41	1	◆	18.1%
		40	4	◆◆◆◆	16.7%
		39	3	◆◆◆	11.1%
		38	4	◆◆◆◆	6.9%
		37			1.4%
CRITICAL SPEED	48	36	1	◆	1.4%
AVERAGE SPEED	44.26	35			0.0%
MEDIAN SPEED	44.5	34			0.0%
STANDARD DEVIATION	3.35	33			0.0%
PACE RANGE	40 - 50	32			0.0%
PERCENTAGE IN PACE	86.1%	31			0.0%
TOTAL # OF AUTOS	72	30			0.0%
		29			0.0%
		28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard	51	1	◆	100.0%
From:	0.2 m E of Corralitos Rd	50	2	◆◆	98.6%
To:	Bowker Rd	49	5	◆◆◆◆◆	95.8%
Direction:	Westbound	48	7	◆◆◆◆◆◆◆	88.7%
Weather:	Cloudy	47	12	◆◆◆◆◆◆◆◆◆◆◆◆	78.9%
Posted Speed:	45	46	9	◆◆◆◆◆◆◆◆◆	62.0%
Begin time:	10:55 AM	45	11	◆◆◆◆◆◆◆◆◆◆◆	49.3%
End time:	11:10 AM	44	2	◆◆	33.8%
		43	6	◆◆◆◆◆◆	31.0%
		42	7	◆◆◆◆◆◆◆	22.5%
		41	1	◆	12.7%
		40	3	◆◆◆	11.3%
		39	1	◆	7.0%
		38	2	◆◆	5.6%
		37	1	◆	2.8%
		36	1	◆	1.4%
CRITICAL SPEED	48	35			0.0%
AVERAGE SPEED	44.99	34			0.0%
MEDIAN SPEED	46.0	33			0.0%
STANDARD DEVIATION	3.26	32			0.0%
PACE RANGE	40 - 50	31			0.0%
PERCENTAGE IN PACE	88.7%	30			0.0%
TOTAL # OF AUTOS	71	29			0.0%
		28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Freedom E. of Corralitos @ 2674 BY JGL
 ROAD NO _____ DATE 10/2/15 DAY FRI BEGIN 10:55 END 11:10
 POSTED SPEED 45 WEATHER Cloudy
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION W ↓ COMPARITOS	TOTAL OF EACH SPEED	DIRECTION E ↑ BOWKER	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51		1		1
50		2		1
49		5	-	5
48	-	7		4
47	- -	12	- -	12
46	-	9		4
45	- -	11	-	9
44		2	-	9
43	-	6	-	6
42	-	7	-	8
41		1		1
40		3		4
39		1		3
38		2		4
37		1		
36		1		1
35				
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		71	TOTAL 72	

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Freedom Boulevard from Bowker Road to Buena Vista Drive (speed data collected at # 2299).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	45 mph	46 mph
Pace Speed	36-46 mph	34-44 mph
Average Speed	41.38 mph	37.94 mph

ANALYSIS:

The prevailing 85th percentile speeds are 45 MPH and 46 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are a safe stopping sight distance, numerous driveways, intersection configurations and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard				
From:	Bowker Rd	50	1	◆	100.0%
To:	Buena Vista Dr	49			98.8%
Direction:	Eastbound	48	2	◆◆	98.8%
Weather:	Cloudy	47	4	◆◆◆◆	96.5%
Posted Speed:	40	46	2	◆◆	91.9%
Begin time:	11:15 AM	45	7	◆◆◆◆◆◆◆	89.5%
End time:	11:35 PM	44	10	◆◆◆◆◆◆◆◆◆◆	81.4%
		43	5	◆◆◆◆◆	69.8%
		42	6	◆◆◆◆◆◆	64.0%
		41	9	◆◆◆◆◆◆◆◆	57.0%
		40	16	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	46.5%
		39	9	◆◆◆◆◆◆◆◆	27.9%
		38	6	◆◆◆◆◆◆	17.4%
		37	4	◆◆◆◆	10.5%
		36	3	◆◆◆	5.8%
		35	1	◆	2.3%
CRITICAL SPEED	45	34			1.2%
AVERAGE SPEED	41.38	33			1.2%
MEDIAN SPEED	41.0	32	1	◆	1.2%
STANDARD DEVIATION	3.34	31			0.0%
PACE RANGE	36 - 46	30			0.0%
PERCENTAGE IN PACE	87.2%	29			0.0%
TOTAL # OF AUTOS	86	28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%

RADAR SPEED SURVEY

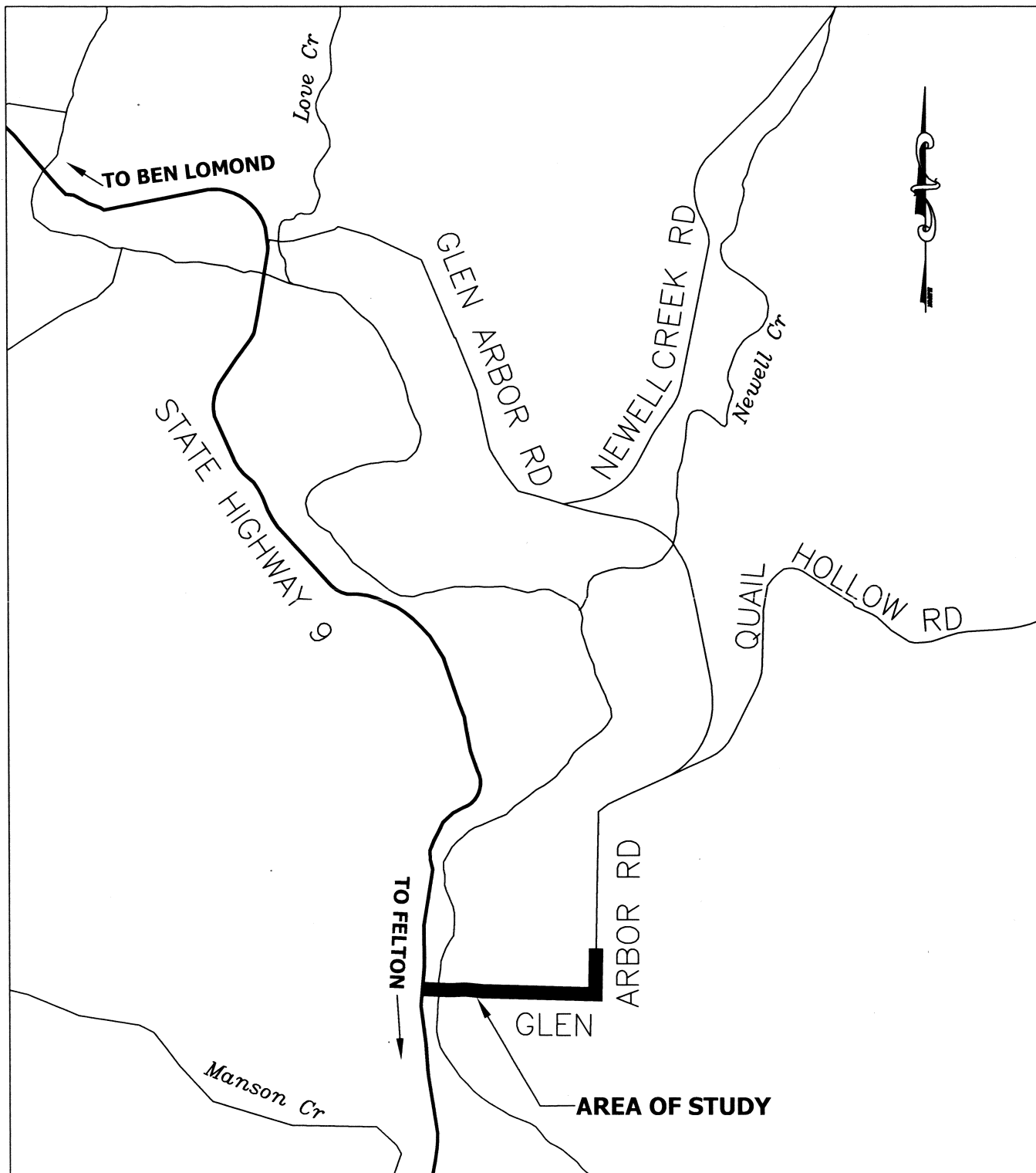
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard				
From:	Bowker Rd	50	2	♦♦	100.0%
To:	Buena Vista Dr	49	1	♦	97.1%
Direction:	Westbound	48	3	♦♦♦	95.7%
Weather:	Cloudy	47	4	♦♦♦♦	91.4%
Posted Speed:	40	46	5	♦♦♦♦♦	85.7%
Begin time:	11:15 AM	45	5	♦♦♦♦♦	78.6%
End time:	11:35 PM	44	5	♦♦♦♦♦	71.4%
		43	6	♦♦♦♦♦♦	64.3%
		42	8	♦♦♦♦♦♦♦♦	55.7%
		41	9	♦♦♦♦♦♦♦♦♦	44.3%
		40	9	♦♦♦♦♦♦♦♦♦	31.4%
		39	7	♦♦♦♦♦♦♦	18.6%
		38	2	♦♦	8.6%
		37	2	♦♦	5.7%
		36	1	♦	2.9%
		35	1	♦	1.4%
CRITICAL SPEED	46	34			0.0%
AVERAGE SPEED	42.47	33			0.0%
MEDIAN SPEED	42.0	32			0.0%
STANDARD DEVIATION	3.40	31			0.0%
PACE RANGE	39 - 49	30			0.0%
PERCENTAGE IN PACE	87.1%	29			0.0%
TOTAL # OF AUTOS	70	28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Freedom (Bowker - Buchavista) @ 2299 BY JSL
 ROAD NO _____ DATE 10/2/15 DAY Fri BEGIN 11:15 END 11:35
 POSTED SPEED 40 WEATHER Cloudy
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION E Buchavista ↑	TOTAL OF EACH SPEED	DIRECTION W Bowker ↓	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50		1		2
49				1
48		2		3
47		4		4
46		2	 -	5
45	 -	7	 -	5
44	 - -	10	 -	5
43	 -	5	 -	6
42	 -	6	 -	8
41	 -	9	 -	9
40	 - - -	16	 -	9
39	 -	9	 -	7
38	 -	6		2
37		4		2
36		2		1
35		1		1
34				
33				
32		1		
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		86	TOTAL 70	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GLEN ARBOR ROAD
HWY 9 TO 0.3 MI NORTH OF HWY 9**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Glen Arbor Road from HWY 9 to .3 miles north (Speed Data collected at Schaaf Road)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	32 mph	32 mph
Pace Speed	25-35 mph	24-34 mph
Average Speed	28.39 mph	28.42 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Glen Arbor Road			
From:	HWY 9	39	0	100.0%
To:	0.3 mi north	38	0	100.0%
Direction:	NB	37	0	100.0%
Weather:	Overcast	36	0	100.0%
Posted Speed:	30	35	0	100.0%
Begin time:	9:36 AM	34	3	100.0%
End time:	10:21 AM	33	2	94.7%
		32	7	91.2%
		31	5	78.9%
		30	7	70.2%
		29	7	57.9%
		28	4	45.6%
		27	8	38.6%
		26	3	24.6%
		25	3	19.3%
		24	3	14.0%
CRITICAL SPEED	32	23	0	8.8%
AVERAGE SPEED	28.39	22	2	8.8%
MEDIAN SPEED	29.0	21	1	5.3%
STANDARD DEVIATION	3.50	20	2	3.5%
PACE RANGE	25 - 35	19	0	0.0%
PERCENTAGE IN PACE	86.0%	18	0	0.0%
TOTAL # OF AUTOS	57	17	0	0.0%
		16	0	0.0%
		15	0	0.0%
		0		

RADAR SPEED SURVEY

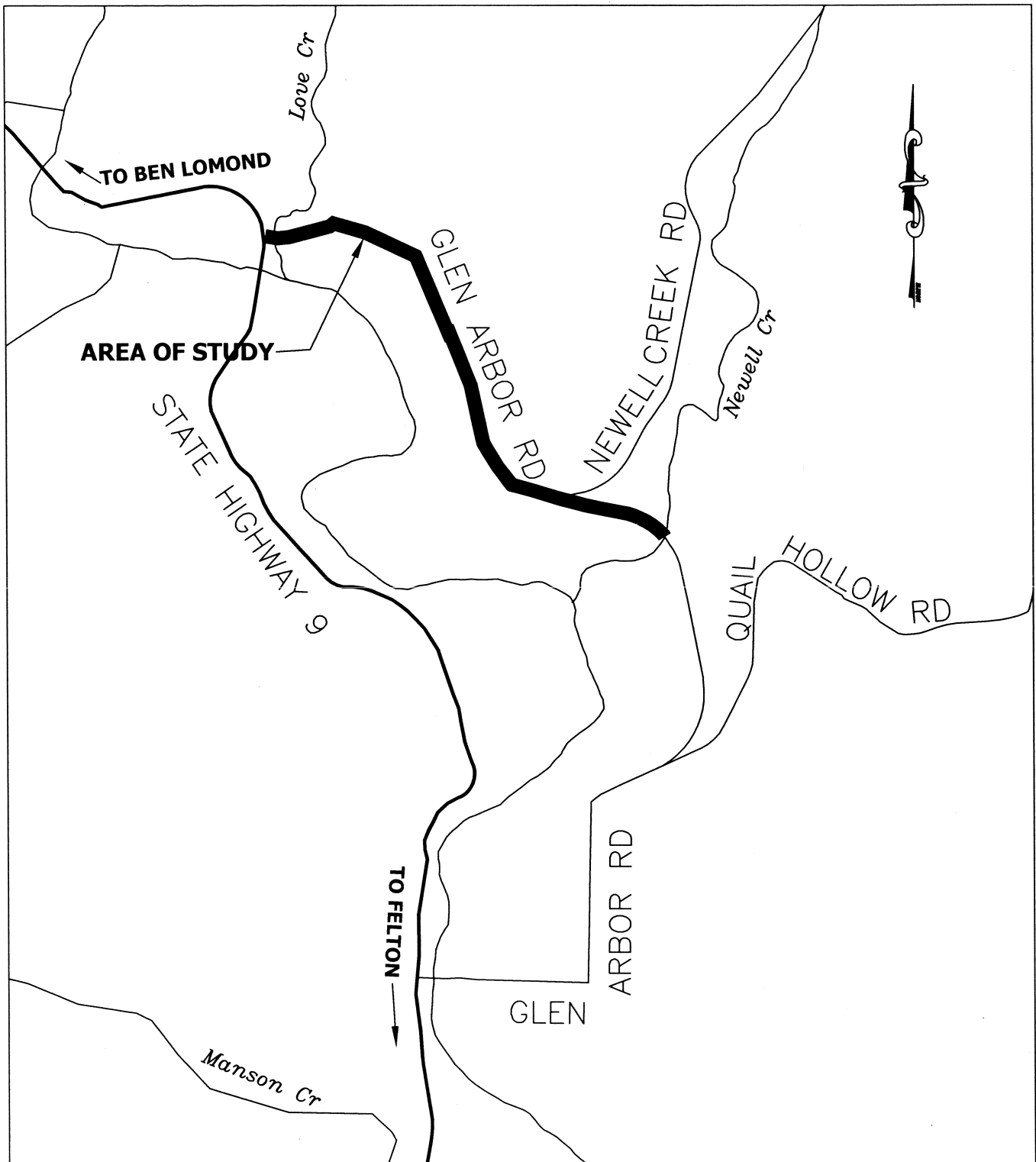
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Glen Arbor Road			
From:	HWY 9	39	0	100.0%
To:	0.3 mi north	38	0	100.0%
Direction:	SB	37	0	100.0%
Weather:	Overcast	36	0	100.0%
Posted Speed:	30	35	1	100.0%
Begin time:	9:36 AM	34	1	98.6%
End time:	10:21 AM	33	5	97.1%
		32	5	89.9%
		31	3	82.6%
		30	10	78.3%
		29	6	63.8%
		28	12	55.1%
		27	5	37.7%
		26	10	30.4%
		25	7	15.9%
		24	3	5.8%
CRITICAL SPEED	32	23	0	1.4%
AVERAGE SPEED	28.42	22	1	1.4%
MEDIAN SPEED	28.0	21	0	0.0%
STANDARD DEVIATION	2.83	20	0	0.0%
PACE RANGE	24 - 34	19	0	0.0%
PERCENTAGE IN PACE	95.7%	18	0	0.0%
TOTAL # OF AUTOS	69	17	0	0.0%
		16	0	0.0%
		15	0	0.0%
			0	

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION GLEN ARBOR @ SCHAAF RD BY RR
 ROAD NO _____ DATE 2/14/15 DAY TU BEGIN 9:36 END 10:01
 POSTED SPEED 30 WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 2% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION SB	TOTAL OF EACH SPEED	DIRECTION NB	TOTAL OF EACH SPEED
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				
35		1		
34		1		3
33		5		4
32		5		5
31		3		5
30		10		7
29		6		7
28		12		4
27		5		8
26		10		3
25		7		3
24		3		3
23				
22		1		2
21				1
20-				2
TOTAL		69	TOTAL 57	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GLEN ARBOR ROAD
NEWELL CREEK BRIDGE TO HWY 9**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Glen Arbor Road from Newell Creek Bridge to HWY 9 (Speed Data collected at Madrone Avenue)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	34 mph	32 mph
Pace Speed	27-37 mph	25-35 mph
Average Speed	29.84 mph	28.88 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH and 34 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Glen Arbor Road	40	0	100.0%
From:	Newell Creek Bridge	39	1 ♦	100.0%
To:	HWY 9	38	2 ♦♦	98.5%
Direction:	NB	37	1 ♦	95.6%
Weather:	Sunny	36	3 ♦♦♦	94.1%
Posted Speed:	30	35	3 ♦♦♦	89.7%
Begin time:	2:32 PM	34	6 ♦♦♦♦♦♦	85.3%
End time:	3:18 PM	33	3 ♦♦♦	76.5%
		32	6 ♦♦♦♦♦♦	72.1%
		31	8 ♦♦♦♦♦♦♦♦	63.2%
		30	4 ♦♦♦♦	51.5%
		29	7 ♦♦♦♦♦♦♦	45.6%
		28	5 ♦♦♦♦♦	35.3%
		27	5 ♦♦♦♦♦	27.9%
		26	3 ♦♦♦	20.6%
CRITICAL SPEED	34	25	2 ♦♦	16.2%
AVERAGE SPEED	29.84	24	1 ♦	13.2%
MEDIAN SPEED	30.0	23	2 ♦♦	11.8%
STANDARD DEVIATION	4.58	22	2 ♦♦	8.8%
PACE RANGE	27 - 37	21	1 ♦	5.9%
PERCENTAGE IN PACE	73.5%	20	3 ♦♦♦	4.4%
TOTAL # OF AUTOS	68	19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%
		15	0	0.0%

RADAR SPEED SURVEY

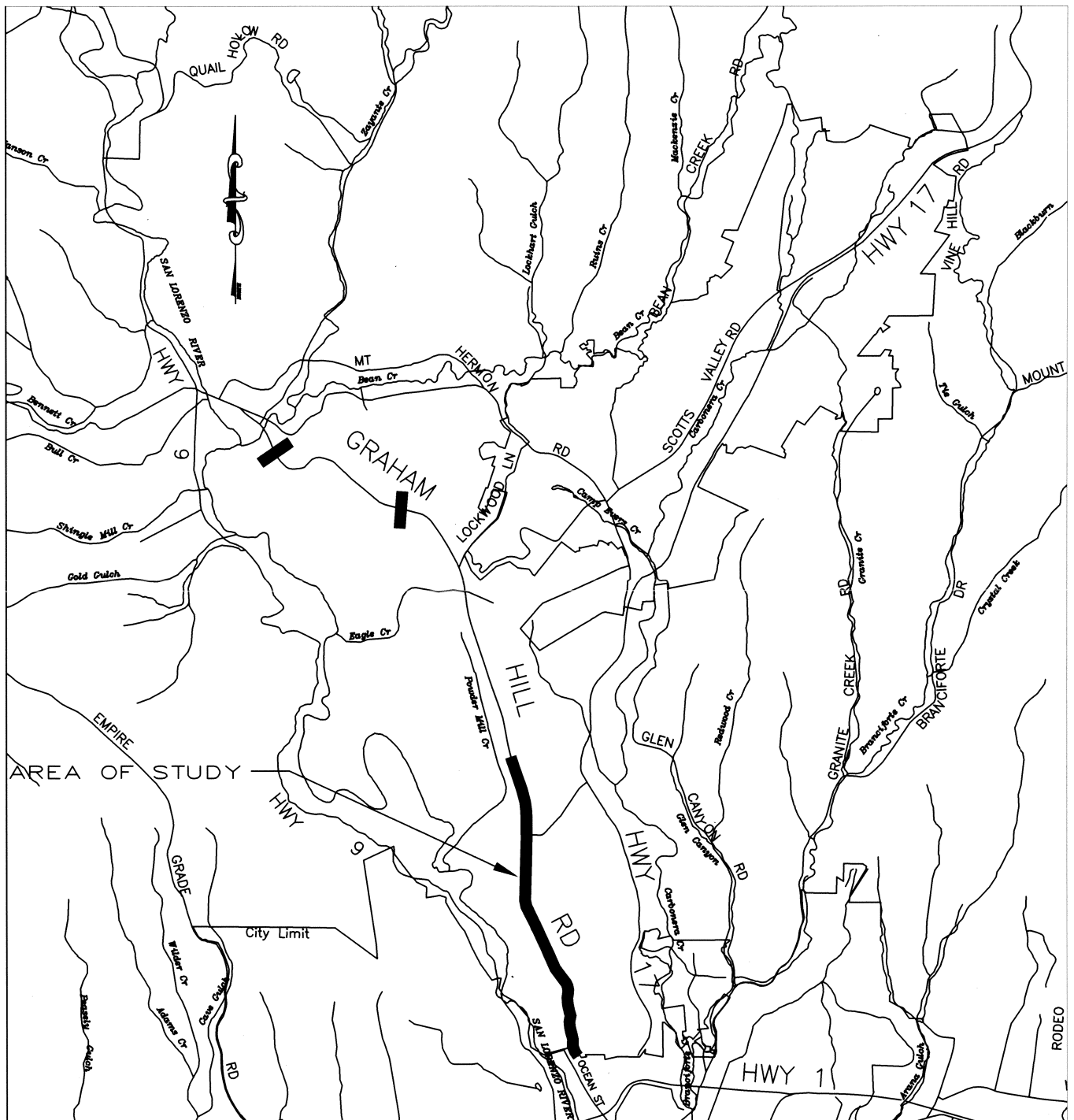
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Glen Arbor Road			
From:	Newell Creek Bridge	40	0	100.0%
To:	HWY 9	39	0	100.0%
Direction:	SB	38	0	100.0%
Weather:	Sunny	37	0	100.0%
Posted Speed:	30	36	1 ♦	100.0%
Begin time:	2:32 PM	35	2 ♦♦	98.3%
End time:	3:18 PM	34	2 ♦♦	95.0%
		33	3 ♦♦♦	91.7%
		32	6 ♦♦♦♦♦♦	86.7%
		31	5 ♦♦♦♦♦	76.7%
		30	5 ♦♦♦♦♦	68.3%
		29	8 ♦♦♦♦♦♦♦♦	60.0%
		28	6 ♦♦♦♦♦♦	46.7%
		27	8 ♦♦♦♦♦♦♦♦	36.7%
		26	6 ♦♦♦♦♦♦	23.3%
CRITICAL SPEED	32	25	4 ♦♦♦♦	13.3%
AVERAGE SPEED	28.88	24	2 ♦♦	6.7%
MEDIAN SPEED	29.0	23	1 ♦	3.3%
STANDARD DEVIATION	3.24	22	0	1.7%
PACE RANGE	25 - 35	21	0	1.7%
PERCENTAGE IN PACE	88.3%	20	1 ♦	1.7%
TOTAL # OF AUTOS	60	19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%
		15	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 6 LEN ARBOR ROAD C MADRONE AVE BY RL
 ROAD NO _____ DATE 2/19/15 DAY Tu BEGIN 2:32 END 3:18
 POSTED SPEED _____ WEATHER Sunny
 NUMBER OF LANES 2 GRADE 2% CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION NB WB	TOTAL OF EACH SPEED	DIRECTION EB SB	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39		1		
38		2		
37		1		
36		3		1
35		3		2
34		6		2
33		3		3
32		6		6
31		8		5
30		4		5
29		7		8
28		5		6
27		5		6
26		3		6
25		2		4
24		1		2
23		2		1
22		2		
21		1		
20		3		1
TOTAL		68	TOTAL 60	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GRAHAM HILL ROAD
CITY OF SANTA CRUZ TO STATE HWY 9**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Graham Hill Road from the Santa Cruz City Limits to Treetop Drive. (Speed Data collected at 1120 Graham Hill Road)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	39 mph	39 mph
Pace Speed	30-40 mph	31-41 mph
Average Speed	36.28 mph	36.16 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 MPH in both direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	East Cliff Drive			
From:	Treetop Drive	47	1 ♦	100.0%
To:	City of Santa Cruz	46		98.8%
Direction:	Southbound	45	1 ♦	98.8%
Weather:	Coudy	44	1 ♦	97.5%
Posted Speed:	35	43	2 ♦♦	96.3%
Begin time:	10:00 AM	42	1 ♦	93.8%
End time:	10:17 AM	41	1 ♦	92.6%
		40	4 ♦♦♦♦	91.4%
		39	5 ♦♦♦♦♦	86.4%
		38	6 ♦♦♦♦♦♦	80.2%
		37	12 ♦♦♦♦♦♦♦♦♦♦	72.8%
		36	12 ♦♦♦♦♦♦♦♦♦♦	58.0%
		35	9 ♦♦♦♦♦♦♦♦	43.2%
		34	10 ♦♦♦♦♦♦♦♦♦	32.1%
		33	6 ♦♦♦♦♦	19.8%
		32	5 ♦♦♦♦♦	12.3%
		31	2 ♦♦	6.2%
		30	3 ♦♦♦	3.7%
CRITICAL SPEED	39			
AVERAGE SPEED	36.16			
MEDIAN SPEED	36.0			
STANDARD DEVIATION	3.37			
PACE RANGE	31 - 41			
PERCENTAGE IN PACE	87.7%			
TOTAL # OF AUTOS	81			

RADAR SPEED SURVEY

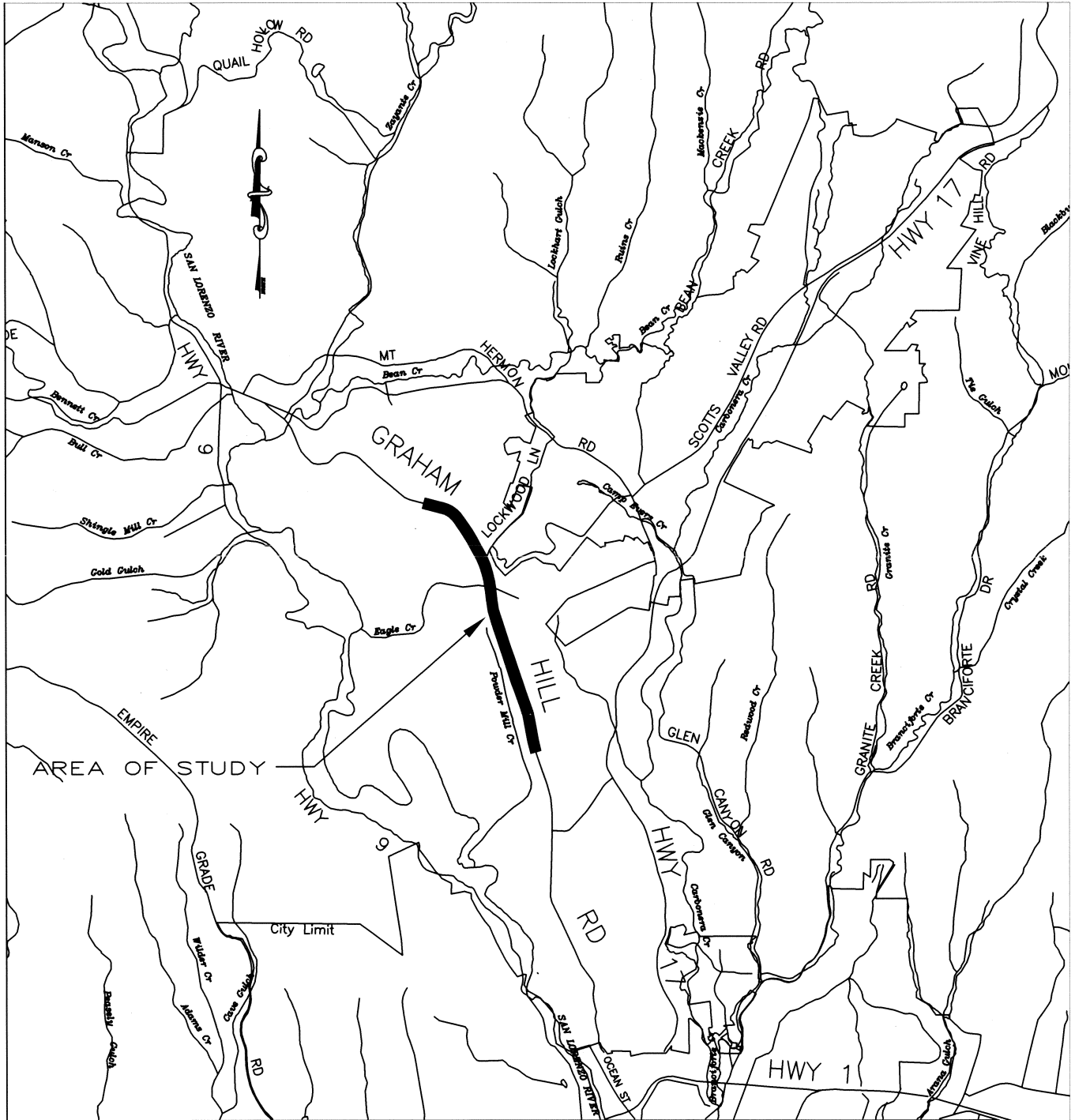
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Graham Hill Road			
From:	City of Santa Cruz	47	1 ♦	100.0%
To:	Treetop Drive	46		98.6%
Direction:	Northbound	45	1 ♦	98.6%
Weather:	Coudy	44	1 ♦	97.3%
Posted Speed:	35	43		95.9%
Begin time:	10:00 AM	42	2 ♦♦	95.9%
End time:	10:17 AM	41	1 ♦	93.2%
		40	1 ♦	91.9%
		39	5 ♦♦♦♦♦	90.5%
		38	7 ♦♦♦♦♦♦♦	83.8%
		37	11 ♦♦♦♦♦♦♦♦♦♦	74.3%
		36	13 ♦♦♦♦♦♦♦♦♦♦♦	59.5%
		35	14 ♦♦♦♦♦♦♦♦♦♦♦♦	41.9%
		34	9 ♦♦♦♦♦♦♦♦	23.0%
		33	3 ♦♦♦	10.8%
CRITICAL SPEED	39	32	1 ♦	6.8%
AVERAGE SPEED	36.28	31	1 ♦	5.4%
MEDIAN SPEED	36.0	30	3 ♦♦♦	4.1%
STANDARD DEVIATION	3.06	29		0.0%
PACE RANGE	30 - 40	28		0.0%
PERCENTAGE IN PACE	90.5%	27		0.0%
TOTAL # OF AUTOS	74			

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION GRAHAM HILL RD @ #1120 (tree-top - City limits) BY JGL
 ROAD NO _____ DATE 9/22/15 DAY TUE BEGIN 10 AM END 10:17 AM
 POSTED SPEED 35 WEATHER CLOUDY
 NUMBER OF LANES 2 GRADE _____ CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	N ↓		S ↑	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47		1	1	1
46				
45		1	1	1
44		1	1	1
43			1	2
42	1	2	1	1
41	1	1	1	1
40	1	1	1	4
39	1 -	5	1 -	5
38	1 - 1	7	1 - 1	6
37	1 - 1 - 1	11	1 - 1 - 1	12
36	1 - 1 - 1	13	1 - 1 - 1	12
35	1 - 1 - 1	14	1 - 1	9
34	1 - 1	9	1 - 1	16
33	1	3	1 - 1	6
32	1	1	1 -	5
31	1	1	1	2
30	1	3	1	3
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		74	TOTAL 81	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GRAHAM HILL ROAD
TREETOP DRIVE TO PROBATION CENTER**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Graham Hill Road from Treetop Drive to the Probation Center. (Speed Data collected at the entrance to Henry Cowell State Park)

PREVAILING SPEED DATA:

The existing posted speed limit is 45 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	51 mph	51 mph
Pace Speed	40-50 mph	45-55 mph
Average Speed	45.8 mph	48.0 mph

ANALYSIS:

The prevailing 85th percentile speed is 51 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 50 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 45 MPH. The factors justifying a further reduction are major arterial, commute route, deer and equestrian crossing areas, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Graham Hill Road	60	0		100.0%
From:	Treetop Drive	59	0		100.0%
To:	Probation Center	58	0		100.0%
Direction:	Northbound	57	0		100.0%
Weather:	Sunny	56	0		100.0%
Posted Speed:	45	55	1	◆	100.0%
Begin time:	10:30 AM	54	1	◆	98.4%
End time:	11:01 AM	53	1	◆	96.9%
		52	4	◆◆◆◆	95.3%
		51	6	◆◆◆◆◆◆	89.1%
		50	2	◆◆	79.7%
		49	5	◆◆◆◆◆	76.6%
		48	3	◆◆◆	68.8%
		47	7	◆◆◆◆◆◆◆	64.1%
		46	4	◆◆◆◆	53.1%
CRITICAL SPEED	51	45	6	◆◆◆◆◆◆	46.9%
AVERAGE SPEED	45.75	44	3	◆◆◆	37.5%
MEDIAN SPEED	46.0	43	2	◆◆	32.8%
STANDARD DEVIATION	4.56	42	3	◆◆◆	29.7%
PACE RANGE	40 - 50	41	4	◆◆◆◆	25.0%
PERCENTAGE IN PACE	68.8%	40	7	◆◆◆◆◆◆◆	18.8%
TOTAL # OF AUTOS	64	39	3	◆◆◆	7.8%
		38	1	◆	3.1%
		37	1	◆	1.6%
		36	0		0.0%
		35	0		0.0%

RADAR SPEED SURVEY

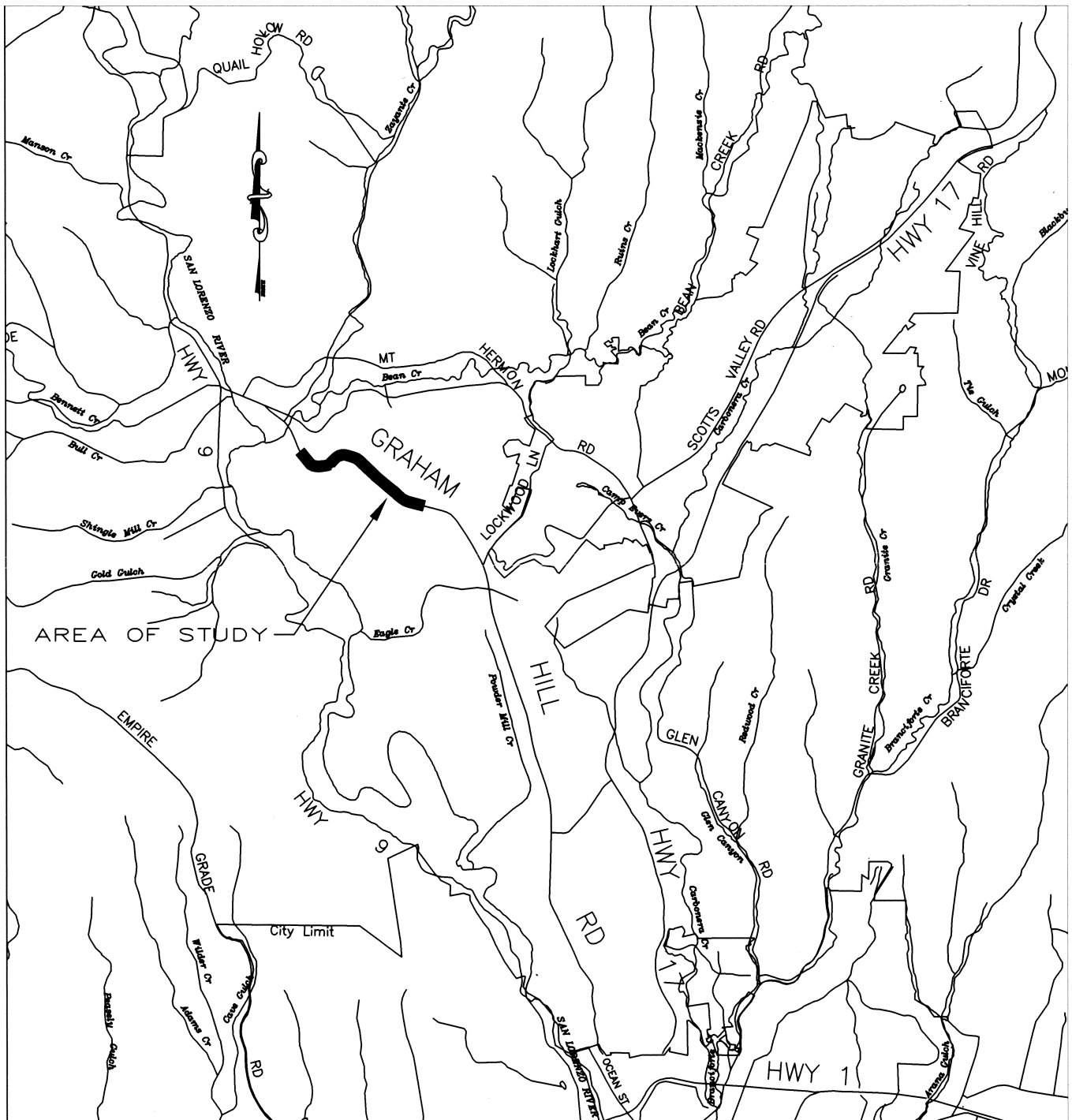
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	East Cliff Drive	60	1	◆	100.0%
From:	Probation Center	59	0		98.5%
To:	Treetop Drive	58	1	◆	98.5%
Direction:	Southbound	57	0		96.9%
Weather:	Sunny	56	0		96.9%
Posted Speed:	45	55	0		96.9%
Begin time:	10:30 AM	54	2	◆◆	96.9%
End time:	11:01 AM	53	3	◆◆◆	93.8%
		52	1	◆	89.2%
		51	4	◆◆◆◆	87.7%
		50	9	◆◆◆◆◆◆◆◆◆	81.5%
		49	8	◆◆◆◆◆◆◆◆	67.7%
		48	10	◆◆◆◆◆◆◆◆◆◆	55.4%
		47	7	◆◆◆◆◆◆◆	40.0%
		46	5	◆◆◆◆◆	29.2%
		45	5	◆◆◆◆◆	21.5%
CRITICAL SPEED	51	44	2	◆◆	13.8%
AVERAGE SPEED	48.02	43	2	◆◆	10.8%
MEDIAN SPEED	48.0	42	2	◆◆	7.7%
STANDARD DEVIATION	3.91	41	0		4.6%
PACE RANGE	45 - 55	40	1	◆	4.6%
PERCENTAGE IN PACE	83.1%	39	1	◆	3.1%
TOTAL # OF AUTOS	65	38	0		1.5%
		37	1	◆	1.5%
		36	0		0.0%
		35	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION ENTRANCE TO HENRY COWELL ON G.H. ROAD BY GJM
ROAD NO 2302 DATE 10/21/14 DAY TUES BEGIN 10:30 END 11:01
POSTED SPEED 45 WEATHER SUNNY
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	NORTHBOUND		SOUTHBOUND	
60			/	1
59				
58			/	1
57				
56				
55	/	1		
54	/	1	//	2
53	/	1	///	3
52	////	4	/	1
51	////////	6	////	4
50	//	2	//////	9
49	////	5	//////	8
48	///	3	//////	10
47	//////	7	//////	7
46	///	4	////	5
45	//////	6	////	5
44	///	3	//	2
43	//	2	//	2
42	///	3	//	2
41	////	4		
40	////////	7	/	1
39	///	3	/	1
38	/	1		
37	/	1	/	1
36				
35				
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL			TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GRAHAM HILL ROAD
PROBATION CENTER TO RAILROAD TRACKS**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Graham Hill Road from the Probation Center to the Railroad Tracks. (Speed Data collected at Grand View Avenue)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	41 mph	39 mph
Pace Speed	34-44 mph	31-41 mph
Average Speed	37.0 mph	35.5 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH and 39 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are pedestrian traffic from the Probation Center and inconsistent geometrics for subsequent curves following one another. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Graham Hill Road	45	0	100.0%
From:	Probation Center	44	2 ♦♦	100.0%
To:	RR tracks	43	1 ♦	96.2%
Direction:	Northbound	42	3 ♦♦♦	94.3%
Weather:	Sunny	41	4 ♦♦♦♦	88.7%
Posted Speed:	35	40	3 ♦♦♦	81.1%
Begin time:	2:30 PM	39	5 ♦♦♦♦♦	75.5%
End time:	3:02 PM	38	6 ♦♦♦♦♦♦	66.0%
		37	10 ♦♦♦♦♦♦♦♦♦♦	54.7%
		36	3 ♦♦♦	35.8%
		35	3 ♦♦♦	30.2%
		34	7 ♦♦♦♦♦♦♦	24.5%
		33	0	11.3%
		32	1 ♦	11.3%
		31	1 ♦	9.4%
		30	2 ♦♦	7.5%
CRITICAL SPEED	41	29	1 ♦	3.8%
AVERAGE SPEED	36.96	28	0	1.9%
MEDIAN SPEED	37.0	27	0	1.9%
STANDARD DEVIATION	4.05	26	0	1.9%
PACE RANGE	34 - 44	25	0	1.9%
PERCENTAGE IN PACE	84.9%	24	0	1.9%
TOTAL # OF AUTOS	53	23	0	1.9%
		22	1 ♦	1.9%
		21	0	0.0%
		20	0	0.0%

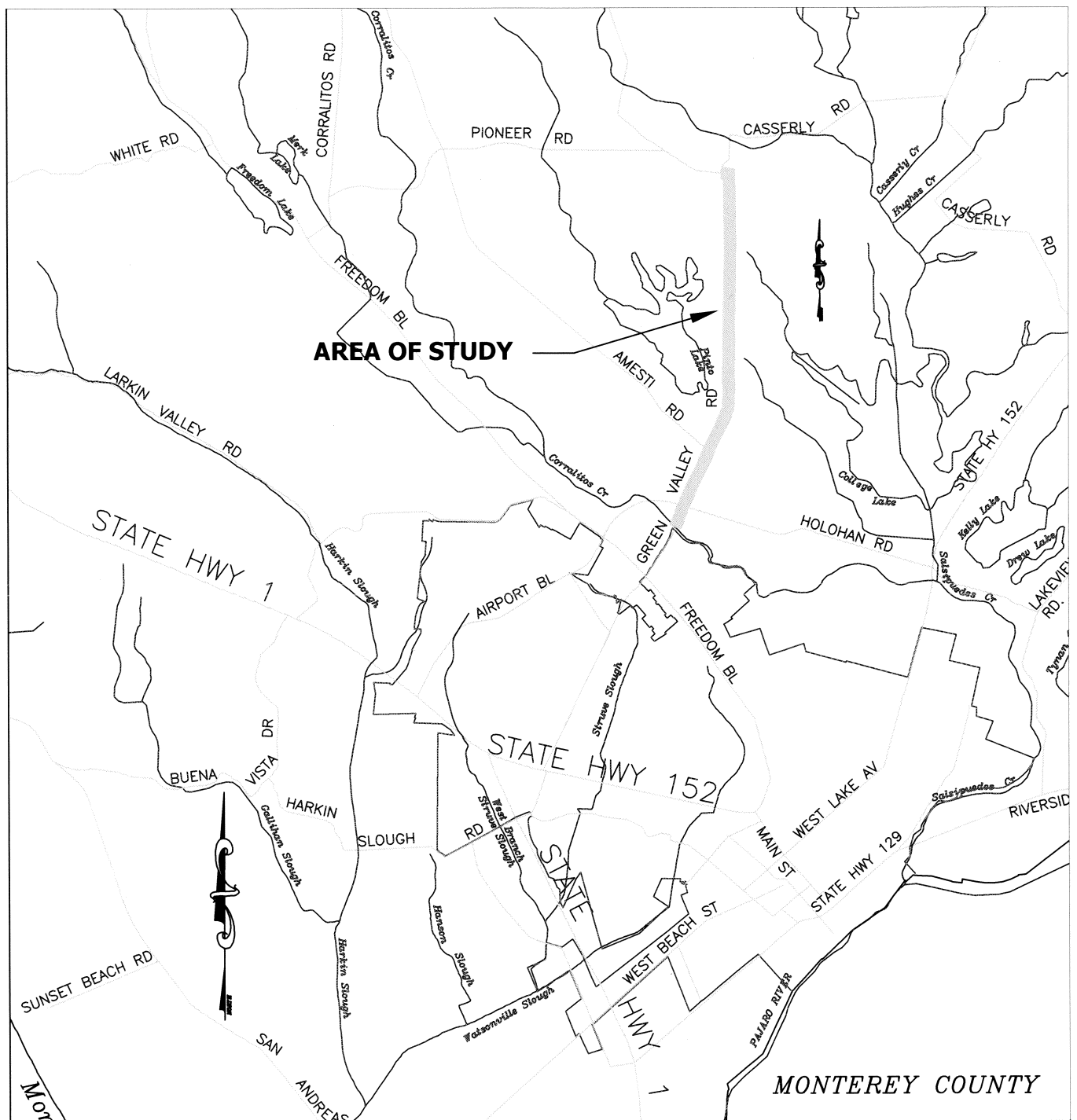
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Graham Hill Road	45	0		100.0%
From:	RR tracks	44	0		100.0%
To:	Probation Center	43	3	◆◆◆	100.0%
Direction:	Southbound	42	3	◆◆◆	95.7%
Weather:	Sunny	41	2	◆◆	91.3%
Posted Speed:	35	40	1	◆	88.4%
Begin time:	2:30 PM	39	6	◆◆◆◆◆◆	87.0%
End time:	3:02 PM	38	6	◆◆◆◆◆◆	78.3%
		37	8	◆◆◆◆◆◆◆◆	69.6%
		36	6	◆◆◆◆◆◆	58.0%
		35	10	◆◆◆◆◆◆◆◆◆◆	49.3%
		34	6	◆◆◆◆◆◆	34.8%
		33	6	◆◆◆◆◆◆	26.1%
		32	3	◆◆◆	17.4%
		31	4	◆◆◆◆	13.0%
CRITICAL SPEED	39	30	0		7.2%
AVERAGE SPEED	35.54	29	1	◆	7.2%
MEDIAN SPEED	36.0	28	1	◆	5.8%
STANDARD DEVIATION	4.18	27	1	◆	4.3%
PACE RANGE	31 - 41	26	0		2.9%
PERCENTAGE IN PACE	81.2%	25	0		2.9%
TOTAL # OF AUTOS	69	24	0		2.9%
		23	1	◆	2.9%
		22	1	◆	1.4%
		21	0		0.0%
		20	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION GRAHAM HILL RD @ GRANDVIEW AVE BY GJM
ROAD NO 2302 DATE 10/21/14 DAY TUES BEGIN 2:30 END 3:02
POSTED SPEED 35 WEATHER CLEAR
NUMBER OF LANES 2 GRADE 10% CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION TOWARDS RR TRAILS NORTH	TOTAL OF EACH SPEED	DIRECTION TOWARDS SANTA CRUZ SOUTH	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44	//	2		
43	/	1	///	3
42	///	3	///	3
41	////	4	//	2
40	///	3	1	1
39	////	5	////	6
38	////	6	////	6
37	////	10	////	8
36	///	3	////	6
35	///	3	////	10
34	////	7	////	6
33			////	6
32	/	1	///	3
31	/	1	////	4
30	//	2		
29	/	1	1	1
28			1	1
27			1	1
26				
25				
24				
23			1	1
22				
21				
20				
TOTAL			TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GREEN VALLEY ROAD
CORRALITOS CREEK TO CASSERLY ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Green Valley Road from Corralitos Creek to Casserly Road (speed data collected near Paulsen Road).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	39 mph	39 mph
Pace Speed	31-41 mph	32-42 mph
Average Speed	35.01 mph	35.28 mph

ANALYSIS:

The prevailing 85th percentile speed is 39 MPH on both directions of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Green Valley Road			
From:	Corralitos Ck	50		100.0%
To:	Cassery Rd	49		100.0%
Direction:	Northbound	48		100.0%
Weather:	Sunny	47	1 ♦	100.0%
Posted Speed:	35	46		98.8%
Begin time:	9:14 AM	45		98.8%
End time:	9:31 AM	44	1 ♦	98.8%
		43		97.6%
		42	2 ♦♦	97.6%
		41	2 ♦♦	95.1%
		40	4 ♦♦♦♦	92.7%
		39	5 ♦♦♦♦♦	87.8%
		38	5 ♦♦♦♦♦	81.7%
		37	9 ♦♦♦♦♦♦♦♦	75.6%
		36	10 ♦♦♦♦♦♦♦♦♦	64.6%
CRITICAL SPEED	39	35	9 ♦♦♦♦♦♦♦♦	52.4%
AVERAGE SPEED	35.01	34	7 ♦♦♦♦♦♦♦	41.5%
MEDIAN SPEED	35.0	33	7 ♦♦♦♦♦♦♦	32.9%
STANDARD DEVIATION	4.11	32	4 ♦♦♦♦	24.4%
PACE RANGE	31 - 41	31	5 ♦♦♦♦♦	19.5%
PERCENTAGE IN PACE	79.3%	30	2 ♦♦	13.4%
TOTAL # OF AUTOS	82	29	3 ♦♦♦	11.0%
		28	2 ♦♦	7.3%
		27	3 ♦♦♦	4.9%
		26		1.2%
		25	1 ♦	1.2%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

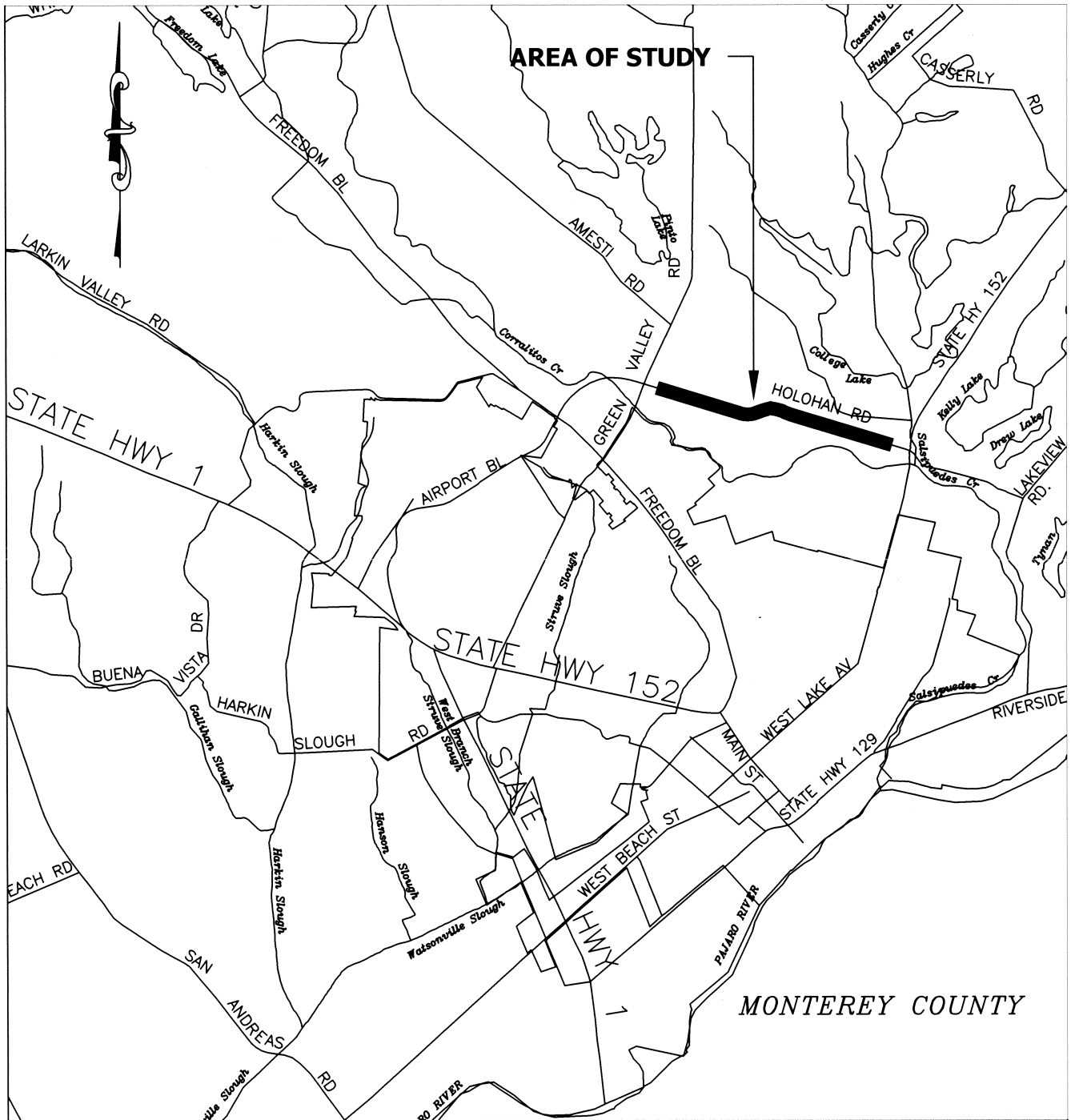
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Green Valley Road			
From:	Corralitos Ck	50		100.0%
To:	Casserly Rd	49		100.0%
Direction:	Southbound	48		100.0%
Weather:	Sunny	47		100.0%
Posted Speed:	35	46		100.0%
Begin time:	9:14 AM	45		100.0%
End time:	9:31 AM	44	1 ♦	100.0%
		43		98.6%
		42	2 ♦♦	98.6%
		41	4 ♦♦♦♦	95.8%
		40	1 ♦	90.1%
		39	7 ♦♦♦♦♦♦♦	88.7%
		38	5 ♦♦♦♦♦	78.9%
		37	9 ♦♦♦♦♦♦♦♦♦	71.8%
		36	6 ♦♦♦♦♦♦	59.2%
CRITICAL SPEED	39	35	8 ♦♦♦♦♦♦♦♦	50.7%
AVERAGE SPEED	35.28	34	6 ♦♦♦♦♦♦	39.4%
MEDIAN SPEED	35.0	33	7 ♦♦♦♦♦♦♦	31.0%
STANDARD DEVIATION	3.83	32	3 ♦♦♦	21.1%
PACE RANGE	32 - 42	31	2 ♦♦	16.9%
PERCENTAGE IN PACE	78.9%	30	3 ♦♦♦	14.1%
TOTAL # OF AUTOS	71	29	3 ♦♦♦	9.9%
		28	3 ♦♦♦	5.6%
		27	1 ♦	1.4%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION GREEN VALLEY @ PAULSEN BY JCL
 ROAD NO DATE 10/27/14 DAY MON BEGIN 9:14 END 9:31
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION (N) → PAULSEN	TOTAL OF EACH SPEED	DIRECTION (S) ← City of Watsonville	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47		1		
46				
45				
44		1	1	1
43				
42	1	2	1	2
41	1	2	1	4
40	1	4	1	1
39	1 -	5	1 - 1	7
38	1 -	5	1 -	5
37	1 - 1	9	1 - 1	9
36	1 - 1 -	10	1 -	6
35	1 - 1	9	1 - 1	8
34	1 - 1	7	1 -	6
33	1 - 1	7	1 - 1	7
32	1	4	1	3
31	1 -	5	1	2
30	1	2	1	3
29	1	3	1	3
28	1	2	1	3
27	1	3	1	1
26				
25	1	1		
24				
23				
22				
21				
20				
TOTAL		82	TOTAL 71	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
HOLOHAN ROAD
0.2 MILES EAST OF GREEN VALLEY ROAD TO LAKEN DRIVE (WEST)**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Holohan Road from .02 miles east of Green Valley Road to Laken Drive (west) (speed data collected east of Grimmer Road).

PREVAILING SPEED DATA:

The existing speed limit is 45 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	48 mph	49 mph
Pace Speed	39-49 mph	37-47 mph
Average Speed	43.51 mph	43.05 mph

ANALYSIS:

The prevailing 85th percentile speeds are 48 MPH and 49 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 45 MPH. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Holohan Road			
From:	.2 mi e of Green Valley Rd	55		100.0%
To:	Laken Dr (west)	54	1 ♦	100.0%
Direction:	Eastbound	53	1 ♦	98.8%
Weather:	Sunny	52		97.5%
Posted Speed:	45	51	2 ♦♦	97.5%
Begin time:	11:30 AM	50	4 ♦♦♦♦	95.0%
End time:	11:48 AM	49	3 ♦♦♦	90.0%
		48	5 ♦♦♦♦♦	86.3%
		47	4 ♦♦♦♦	80.0%
			4 ♦♦♦♦	75.0%
		45	8 ♦♦♦♦♦♦♦♦	70.0%
		44	8 ♦♦♦♦♦♦♦♦	60.0%
		43	3 ♦♦♦	50.0%
		42	9 ♦♦♦♦♦♦♦♦♦	46.3%
		41	4 ♦♦♦♦	35.0%
CRITICAL SPEED	48	40	10 ♦♦♦♦♦♦♦♦♦♦	30.0%
AVERAGE SPEED	43.51	39	4 ♦♦♦♦	17.5%
MEDIAN SPEED	43.5	38	5 ♦♦♦♦♦	12.5%
STANDARD DEVIATION	4.20	37	4 ♦♦♦♦	6.3%
PACE RANGE	39 - 49	36	1 ♦	1.3%
PERCENTAGE IN PACE	73.8%	35		0.0%
TOTAL # OF AUTOS	80	34		0.0%
		33		0.0%
		32		0.0%
		31		0.0%
		30		0.0%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
				0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

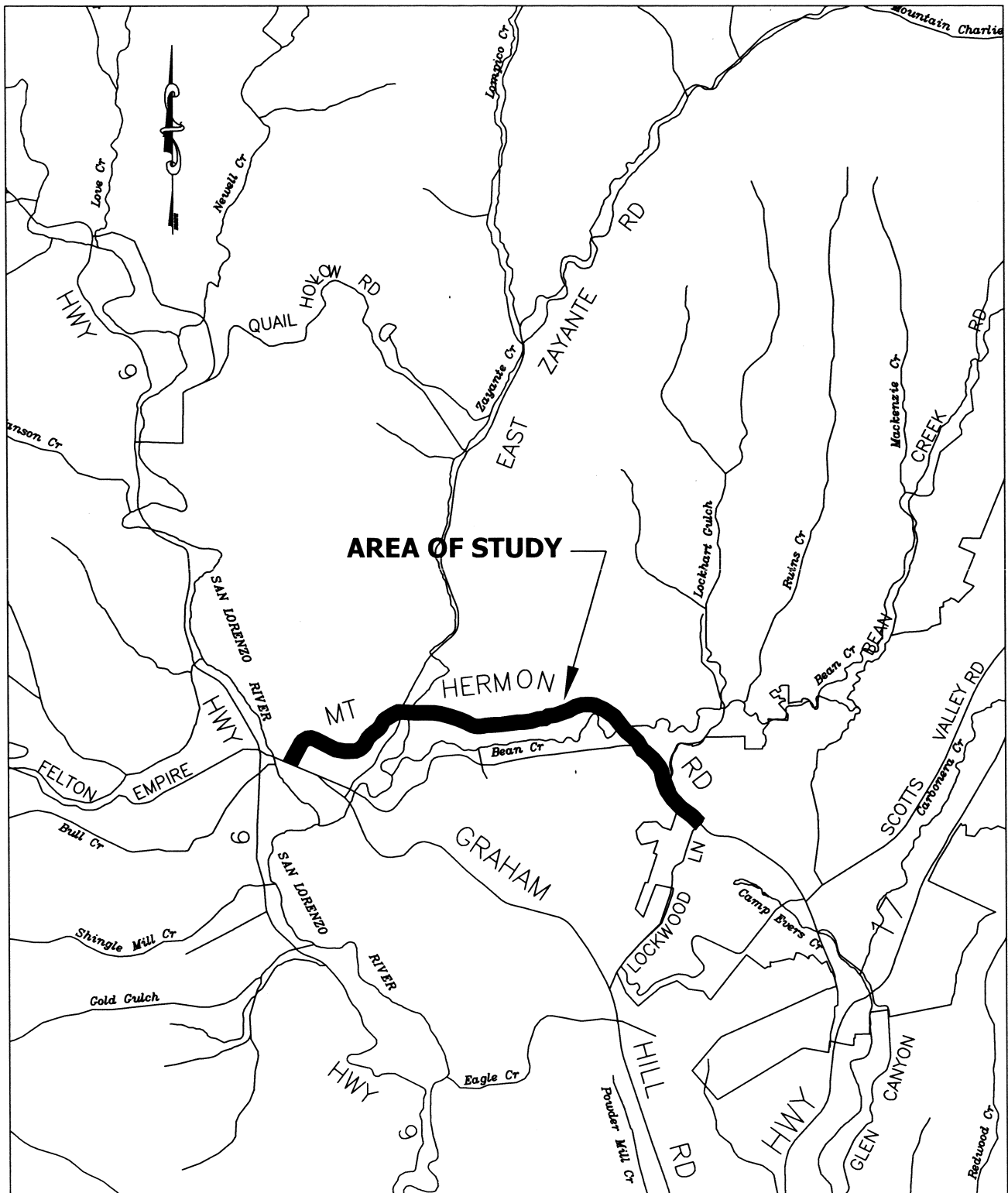
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Holohan Road				
From:	.2 mi e of Green Valley Rd	55	1	◆	100.0%
To:	Laken Dr (west)	54			98.8%
Direction:	Westbound	53			98.8%
Weather:	Sunny	52	2	◆◆	98.8%
Posted Speed:	45	51	2	◆◆	96.4%
Begin time:	11:30 AM	50	3	◆◆◆	94.0%
End time:	11:48 AM	49	5	◆◆◆◆◆	90.5%
		48	3	◆◆◆	84.5%
		47	6	◆◆◆◆◆◆	81.0%
			6	◆◆◆◆◆◆	73.8%
		45	6	◆◆◆◆◆◆	66.7%
		44	5	◆◆◆◆◆	59.5%
		43	5	◆◆◆◆◆	53.6%
		42	6	◆◆◆◆◆◆	47.6%
		41	4	◆◆◆◆	40.5%
CRITICAL SPEED	49	40	9	◆◆◆◆◆◆◆◆◆	35.7%
AVERAGE SPEED	43.05	39	5	◆◆◆◆◆	25.0%
MEDIAN SPEED	43.0	38	3	◆◆◆	19.0%
STANDARD DEVIATION	4.85	37	7	◆◆◆◆◆◆◆	15.5%
PACE RANGE	37 - 47	36	4	◆◆◆◆	7.1%
PERCENTAGE IN PACE	66.7%	35	1	◆	2.4%
TOTAL # OF AUTOS	84	34			1.2%
		33			1.2%
		32			1.2%
		31			1.2%
		30	1	◆	1.2%
		29			0.0%
		28			0.0%
		27			0.0%
		26			0.0%
		25			0.0%
		24			0.0%
		23			0.0%
		22			0.0%
					0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION HOLLOMAN @ # 118 BY JGL
ROAD NO _____ DATE 10/29/14 DAY WED BEGIN 1130 END 1148
POSTED SPEED 45 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION G.V ← (W)	TOTAL OF EACH SPEED	DIRECTION (E) → COLLEGE	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55		1		
54				1
53				1
52		2		
51		2		2
50		3		4
49	-	5		3
48		3	-	5
47	-	6		4
46	-	6		4
45	-	6	-	8
44	-	5	-	8
43	-	5		3
42	-	6	-	9
41		4		4
40	-	9	- -	10
39		5		4
38		3	-	5
37	-	7		4
36		4		1
35		1		
34				
33				
32				
31				
30		1		
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		84	TOTAL 80	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
MOUNT HERMON ROAD
CITY OF SCOTTS VALLEY TO GRAHAM HILL ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Mount Hermon Road from Graham Hill Road to City of Scotts Valley (Speed Data collected at driveway serving CEMEX plant)

PREVAILING SPEED DATA:

The existing posted speed limit is 45 mph and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	48 mph	48 mph
Pace Speed	40-50 mph	38-48 mph
Average Speed	43.62 mph	43.73 mph

ANALYSIS:

The prevailing 85th percentile speed is 48 MPH for both direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 45 MPH. It is recommended that the existing 45 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Mount Hermon Road	55	0	100.0%
From:	City of Scotts Valley	54	2 ♦♦	100.0%
To:	Graham Hill Rd	53	0	97.1%
Direction:	EB	52	2 ♦♦	97.1%
Weather:	Sunny	51	0	94.2%
Posted Speed:	45	50	3 ♦♦♦	94.2%
Begin time:	2:10 AM	49	2 ♦♦	89.9%
End time:	2:45 AM	48	5 ♦♦♦♦♦	87.0%
		47	4 ♦♦♦♦	79.7%
		46	7 ♦♦♦♦♦♦♦	73.9%
		45	5 ♦♦♦♦♦	63.8%
		44	7 ♦♦♦♦♦♦♦	56.5%
		43	5 ♦♦♦♦♦	46.4%
		42	6 ♦♦♦♦♦♦	39.1%
		41	7 ♦♦♦♦♦♦♦	30.4%
CRITICAL SPEED	48	40	5 ♦♦♦♦♦	20.3%
AVERAGE SPEED	43.62	39	2 ♦♦	13.0%
MEDIAN SPEED	44.0	38	1 ♦	10.1%
STANDARD DEVIATION	4.98	37	1 ♦	8.7%
PACE RANGE	40 - 50	36	1 ♦	7.2%
PERCENTAGE IN PACE	76.8%	35	0	5.8%
TOTAL # OF AUTOS	69	34	0	5.8%
		33	2 ♦♦	5.8%
		32	0	2.9%
		31	0	2.9%
		30	0	2.9%

RADAR SPEED SURVEY

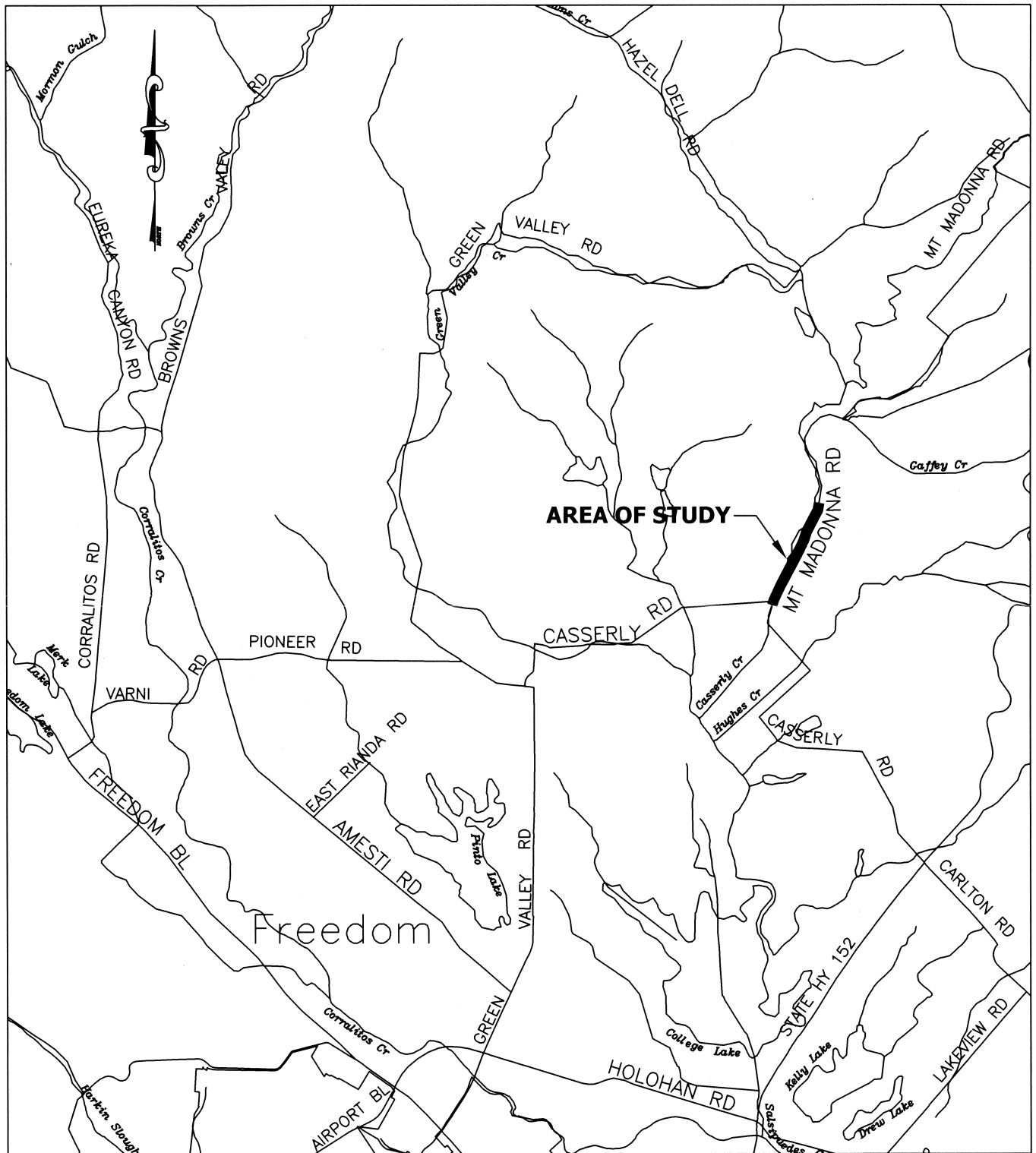
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Mount Hermon Road	55	0	100.0%
From:	City of Scotts Valley	54	1 ♦	100.0%
To:	Graham Hill Rd	53	1 ♦	98.8%
Direction:	WB	52	2 ♦♦	97.6%
Weather:	Sunny	51	1 ♦	95.2%
Posted Speed:	45	50	2 ♦♦	94.0%
Begin time:	2:10 AM	49	4 ♦♦♦♦	91.7%
End time:	2:45 AM	48	4 ♦♦♦♦	86.9%
		47	4 ♦♦♦♦	82.1%
		46	7 ♦♦♦♦♦♦♦	77.4%
		45	9 ♦♦♦♦♦♦♦♦♦	69.0%
		44	9 ♦♦♦♦♦♦♦♦♦	58.3%
		43	9 ♦♦♦♦♦♦♦♦♦	47.6%
		42	9 ♦♦♦♦♦♦♦♦♦	36.9%
		41	4 ♦♦♦♦	26.2%
CRITICAL SPEED	48	40	3 ♦♦♦	21.4%
AVERAGE SPEED	43.73	39	4 ♦♦♦♦	17.9%
MEDIAN SPEED	44.0	38	6 ♦♦♦♦♦♦	13.1%
STANDARD DEVIATION	4.18	37	2 ♦♦	6.0%
PACE RANGE	38 - 48	36	2 ♦♦	3.6%
PERCENTAGE IN PACE	76.2%	35	0	1.2%
TOTAL # OF AUTOS	84	34	0	1.2%
		33	1 ♦	1.2%
		32	0	0.0%
		31	0	0.0%
		30	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION MT HERMOSO AT CEMEX PLANT (D/W) BY RL
 ROAD NO _____ DATE _____ DAY PM BEGIN 2:10 END 2:45
 POSTED SPEED 45 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE _____ CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION WB	TOTAL OF EACH SPEED	DIRECTION EB	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54		1		2
53		1		
52		2		2
51		1		
50		2		3
49		4		2
48		4		5
47		4		4
46		7		7
45		9		5
44		9		7
43		9		5
42		9		6
41		4		7
40		3		5
39		4		2
38		6		1
37		2		1
36		2		1
35				
34				
33		1		2
32				
31				
30				2
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		84	TOTAL 69	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
MT MADONNA ROAD
CASSERLY RD TO PM 0.60**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Mount Madonna Road from Casserly Road to Post Mile 0.6 (speed data collected .5 miles north of Casserly Road).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	40 mph	41 mph
Pace Speed	28-38 mph	32-42 mph
Average Speed	34.16 mph	37.20 mph

ANALYSIS:

The prevailing 85th percentile speeds are 40 mph and 41 mph depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are shoulder conditions and numerous private driveways. It is recommended that the existing 40 MPH speed limit be reduced to 35 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Mount Madonna Road			
From:	Casserly Rd	47	1 ♦	100.0%
To:	0.6 m NW of Casserly Rd	46		98.4%
Direction:	Northbound	45		98.4%
Weather:	Sunny	44	1 ♦	98.4%
Posted Speed:	35	43	2 ♦♦	96.7%
Begin time:	3:30 PM	42	1 ♦	93.4%
End time:	4:37 PM	41	1 ♦	91.8%
		40	4 ♦♦♦♦	90.2%
		39	3 ♦♦♦	83.6%
		38	3 ♦♦♦	78.7%
		37	2 ♦♦	73.8%
		36	5 ♦♦♦♦♦	70.5%
		35	5 ♦♦♦♦♦	62.3%
		34	2 ♦♦	54.1%
		33	5 ♦♦♦♦♦	50.8%
CRITICAL SPEED	40	32	4 ♦♦♦♦	42.6%
AVERAGE SPEED	34.16	31	3 ♦♦♦	36.1%
MEDIAN SPEED	33.0	30	7 ♦♦♦♦♦♦♦	31.1%
STANDARD DEVIATION	4.84	29	6 ♦♦♦♦♦♦	19.7%
PACE RANGE	28 - 38	28	4 ♦♦♦♦	9.8%
PERCENTAGE IN PACE	70.5%	27	2 ♦♦	3.3%
TOTAL # OF AUTOS	61	26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

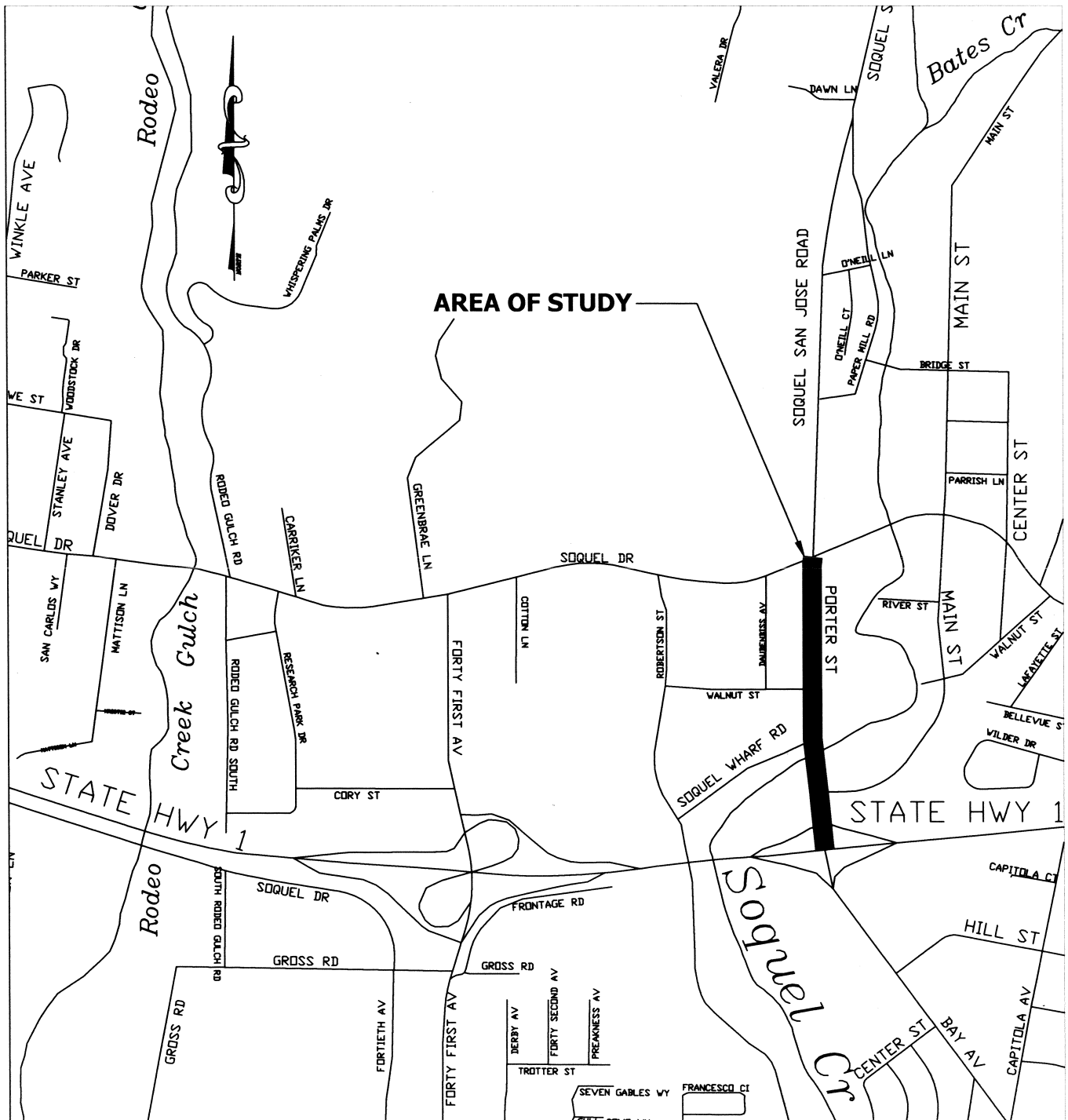
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Mount Madonna Road			
From:	Casserly Rd	47	1 ♦	100.0%
To:	0.6 m NW of Casserly Rd	46	2 ♦♦	98.4%
Direction:	Southbound	45		95.3%
Weather:	Sunny	44	2 ♦♦	95.3%
Posted Speed:	35	43	1 ♦	92.2%
Begin time:	3:30 PM	42	2 ♦♦	90.6%
End time:	4:37 PM	41	9 ♦♦♦♦♦♦♦♦	87.5%
		40	3 ♦♦♦	73.4%
		39	4 ♦♦♦♦	68.8%
		38	8 ♦♦♦♦♦♦♦♦	62.5%
		37	6 ♦♦♦♦♦♦	50.0%
		36	7 ♦♦♦♦♦♦♦	40.6%
		35	3 ♦♦♦	29.7%
		34	2 ♦♦	25.0%
		33	2 ♦♦	21.9%
CRITICAL SPEED	41	32	3 ♦♦♦	18.8%
AVERAGE SPEED	37.20	31	4 ♦♦♦♦	14.1%
MEDIAN SPEED	37.5	30	2 ♦♦	7.8%
STANDARD DEVIATION	4.45	29	1 ♦	4.7%
PACE RANGE	32 - 42	28	2 ♦♦	3.1%
PERCENTAGE IN PACE	73.4%	27		0.0%
TOTAL # OF AUTOS	64	26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION MT MADONNA (0.5 N of Cassery Ln) BY JBL
 ROAD NO DATE 10/24/14 DAY FRI BEGIN 3:30 END 4:37
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION (S) ↓ Cassery	TOTAL OF EACH SPEED	DIRECTION (N) ↑ Hazel Dell	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47		1	1	1
46	11	2		
45				
44	11	2	1	1
43	11	1	11	2
42	11	2	1	1
41	1111	9	1	1
40	1111	3	1111	4
39	1111	4	1111	3
38	1111	8	1111	3
37	1111	6	1111	2
36	1111	7	1111	5
35	1111	3	1111	5
34	1111	2	1111	2
33	1111	2	1111	5
32	1111	3	1111	4
31	1111	4	1111	3
30	1111	2	1111	7
29	1111	1	1111	6
28	1111	2	1111	4
27			1111	2
26				
25				
24				
23				
22				
21				
20-				
TOTAL		64	TOTAL 61	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTER STREET
STATE HIGHWAY 1 TO SOQUEL DRIVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Porter Street from HWY 1 to Soquel Drive (Speed Data collected at # 2800)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	29 mph	28 mph
Pace Speed	22-32 mph	20-30 mph
Average Speed	26.00 mph	24.42 mph

ANALYSIS:

The prevailing 85th percentile speeds are 29 MPH and 28 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Porter Street				
From:	HWY 1	34	0		100.0%
To:	Soquel Dr	33	0		100.0%
Direction:	NB	32	3	◆◆◆	100.0%
Weather:	Sunny	31	3	◆◆◆	95.7%
Posted Speed:	25	30	2	◆◆	91.4%
Begin time:	10:30 AM	29	6	◆◆◆◆◆	88.6%
End time:	11:40 AM	28	7	◆◆◆◆◆◆	80.0%
		27	7	◆◆◆◆◆◆	70.0%
		26	12	◆◆◆◆◆◆◆◆◆◆	60.0%
		25	6	◆◆◆◆◆	42.9%
		24	11	◆◆◆◆◆◆◆◆◆◆	34.3%
		23	5	◆◆◆◆◆	18.6%
		22	4	◆◆◆◆	11.4%
		21	3	◆◆◆	5.7%
		20	1	◆	1.4%
CRITICAL SPEED	29	19	0		0.0%
AVERAGE SPEED	26.00	18	0		0.0%
MEDIAN SPEED	26.0	17	0		0.0%
STANDARD DEVIATION	2.88	16	0		0.0%
PACE RANGE	22 - 32	15	0		0.0%
PERCENTAGE IN PACE	90.0%		0		
TOTAL # OF AUTOS	70		0		
			0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY

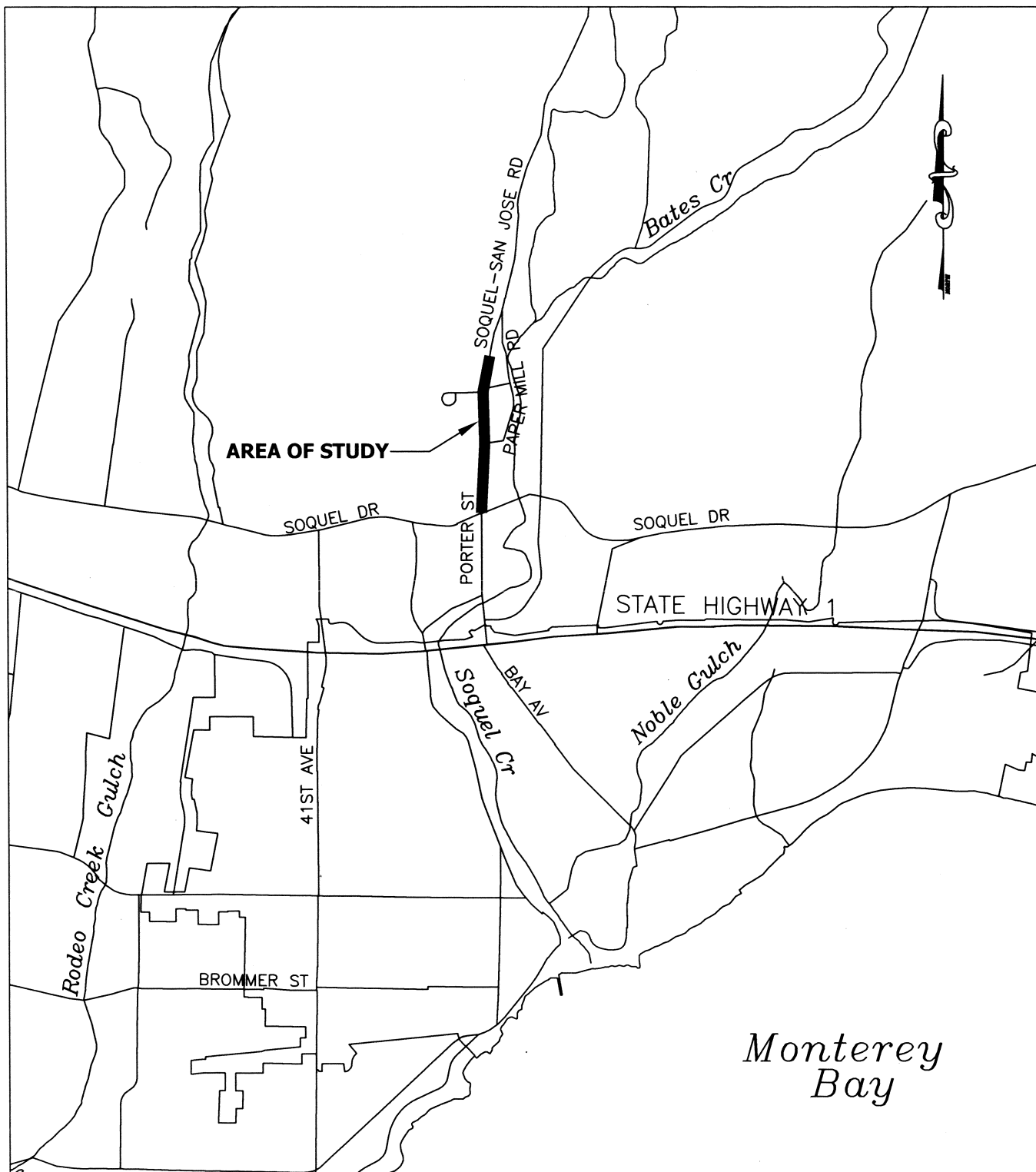
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Porter Street				
From:	HWY 1	34	0		100.0%
To:	Soquel Dr	33	0		100.0%
Direction:	SB	32	1	◆	100.0%
Weather:	Sunny	31	2	◆◆	98.4%
Posted Speed:	25	30	1	◆	95.2%
Begin time:	10:30 AM	29	1	◆	93.5%
End time:	11:40 AM	28	5	◆◆◆◆◆	91.9%
		27	7	◆◆◆◆◆◆◆	83.9%
		26	3	◆◆◆	72.6%
		25	9	◆◆◆◆◆◆◆◆◆	67.7%
		24	5	◆◆◆◆◆	53.2%
		23	10	◆◆◆◆◆◆◆◆◆◆	45.2%
		22	7	◆◆◆◆◆◆◆	29.0%
		21	5	◆◆◆◆◆	17.7%
		20	6	◆◆◆◆◆◆	9.7%
CRITICAL SPEED	28	19	0		0.0%
AVERAGE SPEED	24.42	18	0		0.0%
MEDIAN SPEED	24.0	17	0		0.0%
STANDARD DEVIATION	3.02	16	0		0.0%
PACE RANGE	20 - 30	15	0		0.0%
PERCENTAGE IN PACE	93.5%		0		
TOTAL # OF AUTOS	62		0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Porter St @ 2800 BY PK
 ROAD NO _____ DATE 9/17/15 DAY FRI BEGIN 10:30 END 11:40
 POSTED SPEED 25 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB	TOTAL OF EACH SPEED
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				
35				
34				
33				
32		3		
31		3		2
30		2		1
29		6		1
28		7		5
27		7		7
26		12		3
25		6		9
24		11		5
23		5		10
22		4		2
21		3		5
20-		1		6
TOTAL		70	TOTAL 62	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTER STREET
SOQUEL DR TO 0.4 MI N OF SOQUEL DR**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Porter Street from Soquel Drive to .4 miles north of Soquel Drive (Speed Data collected at # 3140)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	30 mph	34 mph
Pace Speed	24-34 mph	27-37 mph
Average Speed	27.23 mph	30.37 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 MPH and 34 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are a close proximity to a high school, vehicles entering and exiting local businesses, a recent pedestrian fatality in the vicinity (2011), and school children and other pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Porter Street
 From: Soquel Dr
 To: .4 mi North
 Direction: NB
 Weather: Sunny
 Posted Speed: 25
 Begin time: 10:15 AM
 End time: 10:55 AM

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		34	0		100.0%
		33	1	♦	100.0%
		32	5	♦♦♦♦♦	98.7%
		31	5	♦♦♦♦♦	92.2%
		30	11	♦♦♦♦♦♦♦♦♦♦	85.7%
		29	7	♦♦♦♦♦♦♦	71.4%
		28	11	♦♦♦♦♦♦♦♦♦♦	62.3%
		27	10	♦♦♦♦♦♦♦♦♦♦	48.1%
		26	4	♦♦♦♦	35.1%
		25	9	♦♦♦♦♦♦♦♦♦	29.9%
		24	6	♦♦♦♦♦♦	18.2%
		23	1	♦	10.4%
		22	1	♦	9.1%
		21	0		7.8%
		20	6	♦♦♦♦♦♦	7.8%
CRITICAL SPEED	30	19	0		0.0%
AVERAGE SPEED	27.23	18	0		0.0%
MEDIAN SPEED	28.0	17	0		0.0%
STANDARD DEVIATION	3.25	16	0		0.0%
PACE RANGE	24 - 34	15	0		0.0%
PERCENTAGE IN PACE	89.6%		0		
TOTAL # OF AUTOS	77		0		
			0		
			0		
			0		
			0		
			0		

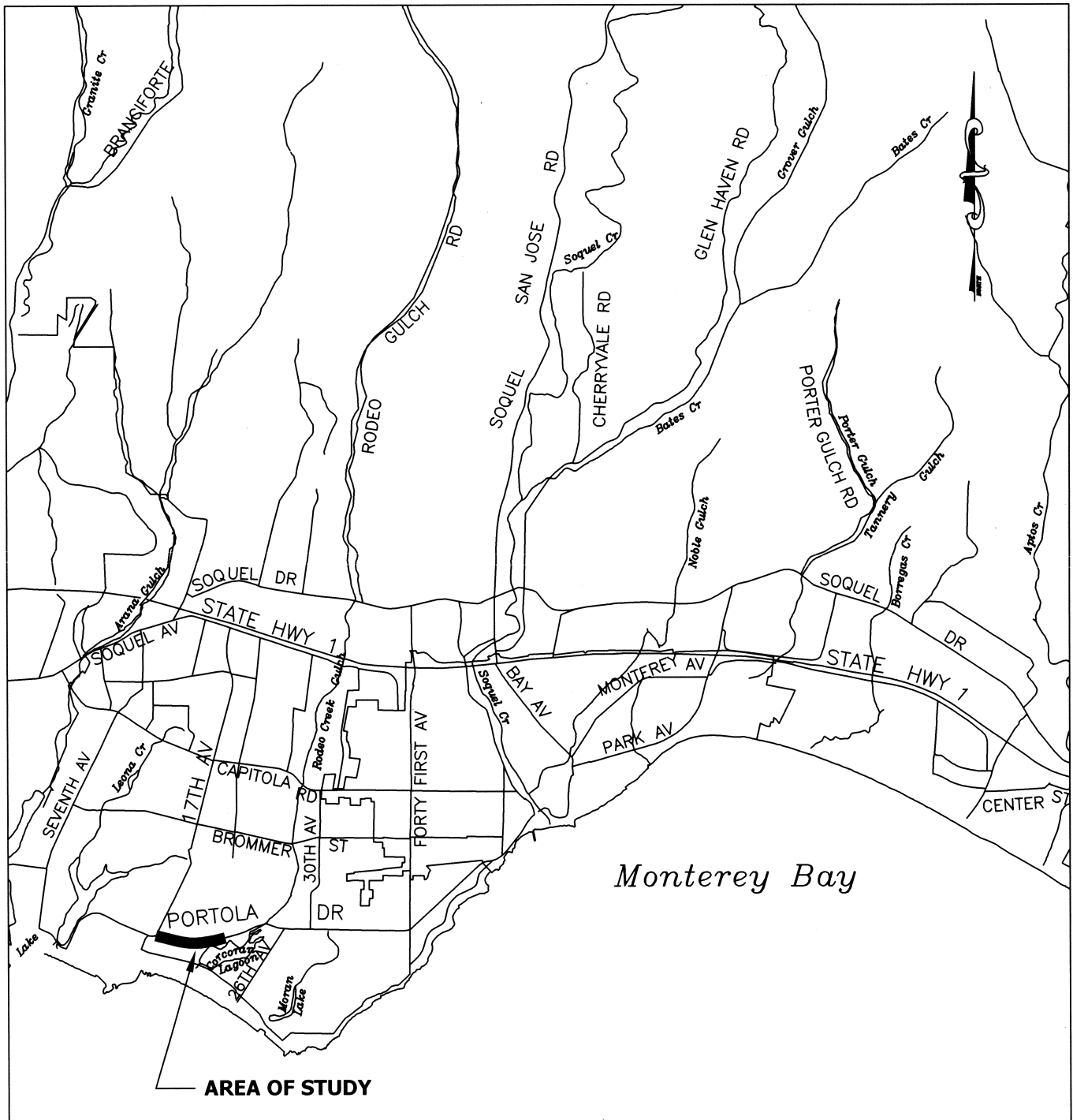
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Porter Street			
From:	Soquel Dr	41	0	100.0%
To:	.4 mi North	40	1 ♦	100.0%
Direction:	SB	39	0	98.8%
Weather:	Sunny	38	0	98.8%
Posted Speed:	25	37	0	98.8%
Begin time:	10:15 AM	36	5 ♦♦♦♦♦	98.8%
End time:	10:55 AM	35	3 ♦♦♦	92.9%
		34	7 ♦♦♦♦♦♦♦	89.3%
		33	10 ♦♦♦♦♦♦♦♦♦♦	81.0%
		32	8 ♦♦♦♦♦♦♦♦	69.0%
		31	8 ♦♦♦♦♦♦♦♦	59.5%
		30	10 ♦♦♦♦♦♦♦♦♦♦	50.0%
		29	11 ♦♦♦♦♦♦♦♦♦♦♦	38.1%
		28	3 ♦♦♦	25.0%
		27	8 ♦♦♦♦♦♦♦♦	21.4%
		26	1 ♦	11.9%
CRITICAL SPEED	34	25	4 ♦♦♦♦	10.7%
AVERAGE SPEED	30.37	24	0	6.0%
MEDIAN SPEED	30.5	23	1 ♦	6.0%
STANDARD DEVIATION	3.70	22	2 ♦♦	4.8%
PACE RANGE	27 - 37	21	2 ♦♦	2.4%
PERCENTAGE IN PACE	86.9%	20	0	0.0%
TOTAL # OF AUTOS	84	19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION DONTER ST @ 3140 BY PR
ROAD NO _____ DATE 10/1/14 DAY 10:15 BEGIN 10:15 END 10:55
POSTED SPEED 25 WEATHER SUNNY
NUMBER OF LANES 2 GRADE SL CALIBRATED YES

NUMBER OF VEHICLES				
MPH	DIRECTION <u>ND</u>	TOTAL OF EACH SPEED	DIRECTION <u>SB</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40			1	1
39				
38				
37				
36			1	1
35			1	1
34			1	1
33	1	1	1	1
32	1	1	1	1
31	1	1	1	1
30	1	1	1	1
29	1	1	1	1
28	1	1	1	1
27	1	1	1	1
26	1	1	1	1
25	1	1	1	1
24	1	1	1	1
23	1	1	1	1
22	1	1	1	1
21	1	1	1	1
20	1	1	1	1
TOTAL		77	TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTOLA DRIVE
17TH AVE TO COASTVIEW DR**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Portola Drive between 17th Avenue and Coastview Drive. (Speed Data collected at 24th Avenue)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	34 mph	33 mph
Pace Speed	26-36 mph	27-37 mph
Average Speed	30.6 mph	30.3 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH and 33 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive	40	0		100.0%
From:	Coastview Dr	39	1	◆	100.0%
To:	17th Ave	38	1	◆	98.7%
Direction:	Westbound	37	1	◆	97.5%
Weather:	Sunny	36	2	◆◆	96.2%
Posted Speed:	30	35	3	◆◆◆	93.7%
Begin time:	9:30 AM	34	7	◆◆◆◆◆◆◆	89.9%
End time:	9:55 AM	33	5	◆◆◆◆◆	81.0%
		32	10	◆◆◆◆◆◆◆◆◆◆	74.7%
		31	10	◆◆◆◆◆◆◆◆◆◆	62.0%
		30	7	◆◆◆◆◆◆◆	49.4%
		29	14	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	40.5%
		28	7	◆◆◆◆◆◆◆	22.8%
		27	3	◆◆◆	13.9%
		26	5	◆◆◆◆◆	10.1%
		25	2	◆◆	3.8%
CRITICAL SPEED	34	24	0		1.3%
AVERAGE SPEED	30.63	23	1	◆	1.3%
MEDIAN SPEED	31.0	22	0		0.0%
STANDARD DEVIATION	3.13	21	0		0.0%
PACE RANGE	26 - 36				
PERCENTAGE IN PACE	89.9%				
TOTAL # OF AUTOS	79				

RADAR SPEED SURVEY

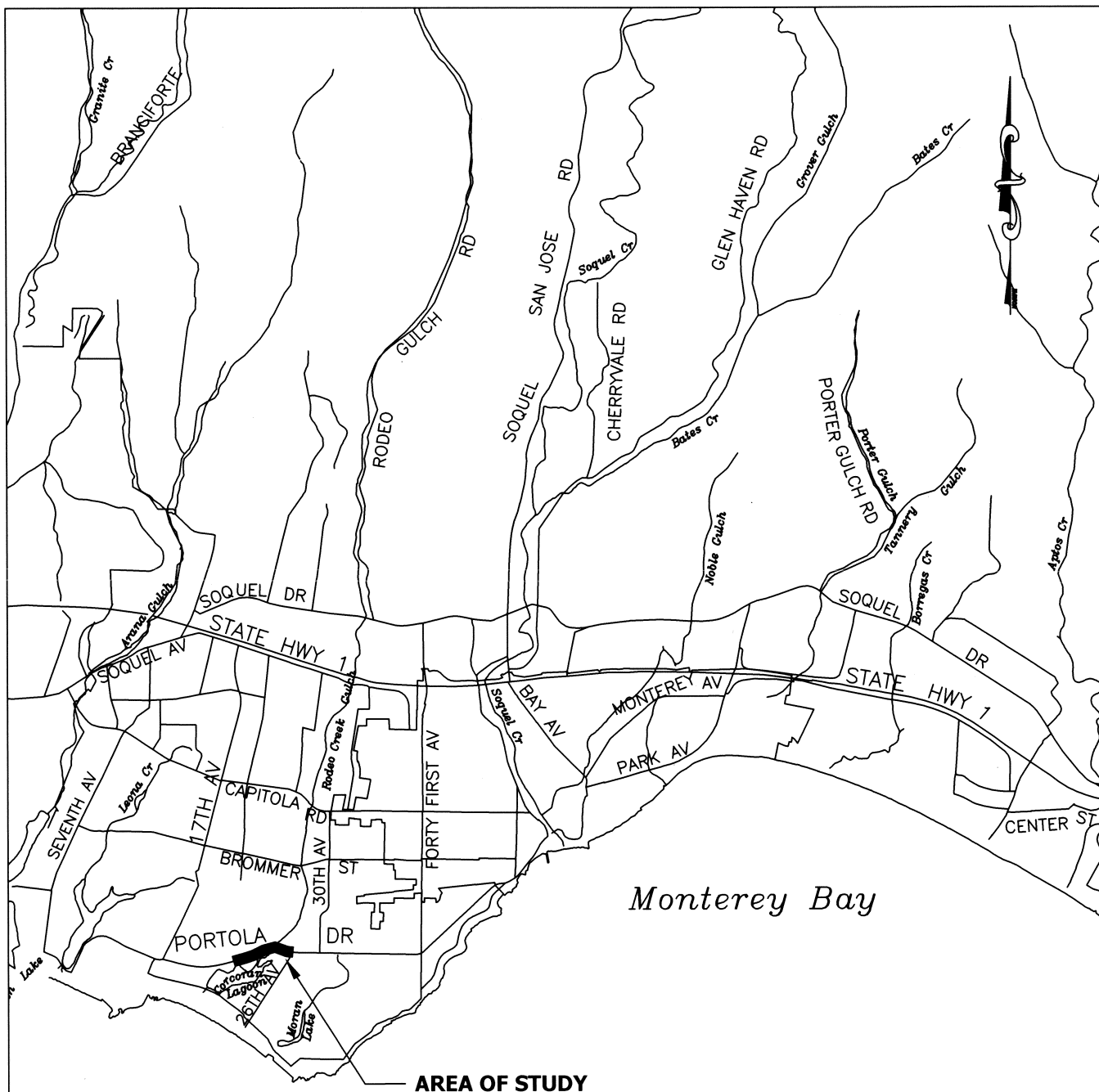
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive				
From:	17th Ave	40	0		100.0%
To:	Coastview Dr	39	0		100.0%
Direction:	Eastbound	38	1	◆	100.0%
Weather:	Sunny	37	2	◆◆	98.7%
Posted Speed:	30	36	4	◆◆◆◆	96.1%
Begin time:	9:30 AM	35	2	◆◆	90.8%
End time:	9:55 AM	34	1	◆	88.2%
		33	7	◆◆◆◆◆◆◆	86.8%
		32	7	◆◆◆◆◆◆◆	77.6%
		31	11	◆◆◆◆◆◆◆◆◆◆◆	68.4%
		30	12	◆◆◆◆◆◆◆◆◆◆◆◆	53.9%
		29	6	◆◆◆◆◆◆	38.2%
		28	10	◆◆◆◆◆◆◆◆◆◆	30.3%
		27	6	◆◆◆◆◆◆	17.1%
		26	4	◆◆◆◆	9.2%
CRITICAL SPEED	33	25	0		3.9%
AVERAGE SPEED	30.34	24	1	◆	3.9%
MEDIAN SPEED	30.0	23	2	◆◆	2.6%
STANDARD DEVIATION	3.19	22	0		0.0%
PACE RANGE	27 - 37	21	0		0.0%
PERCENTAGE IN PACE	86.8%	20	0		0.0%
TOTAL # OF AUTOS	76				

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION PORTOLA DRIVE 1919 PORTOLA DR 17TH-COASTVIEW BY GJM
 ROAD NO 2409 DATE 10/23/14 DAY TH BEGIN 9:30 END 9:55
 POSTED SPEED 30 WEATHER CLEAR
 NUMBER OF LANES 2 GRADE 4% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION TOWARDS CAPITOLA EASTBOUND	TOTAL OF EACH SPEED	DIRECTION TOWARDS SANTA CRUZ WESTBOUND	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39			/	1
38	/	1	/	1
37	//	2	/	1
36	///	4	//	2
35	//	2	///	3
34	/	1	////	7
33	////	7	////	5
32	////	7	////	10
31	////	11	////	10
30	////	12	////	7
29	////	6	////	14
28	////	10	////	7
27	////	6	///	3
26	////	4	////	5
25			//	2
24	/	1		
23	//	2	/	1
22				
21				
20				
TOTAL			TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTOLA DRIVE
COASTVIEW DR TO 26TH AVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Portola Drive between Coastview Drive and 26th Avenue. (Speed Data collected at 24th Avenue)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	33 mph	32 mph
Pace Speed	27-37 mph	24-34 mph
Average Speed	30.31 mph	29.17 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit be maintained with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive				
From:	Coastview Dr	40	1	◆	100.0%
To:	26th Ave	39			98.7%
Direction:	Eastbound	38			98.7%
Weather:	Cloudy/Sunny	37			98.7%
Posted Speed:	30	36	1	◆	98.7%
Begin time:	11:35 AM	35	1	◆	97.4%
End time:	11:47 AM	34	1	◆	96.1%
		33	4	◆◆◆◆	94.7%
		32	6	◆◆◆◆◆◆	89.5%
		31	8	◆◆◆◆◆◆◆◆	81.6%
		30	11	◆◆◆◆◆◆◆◆◆◆	71.1%
		29	10	◆◆◆◆◆◆◆◆◆◆	56.6%
		28	9	◆◆◆◆◆◆◆◆◆◆	43.4%
		27	10	◆◆◆◆◆◆◆◆◆◆	31.6%
		26	10	◆◆◆◆◆◆◆◆◆◆	18.4%
CRITICAL SPEED	32	25	2	◆◆	5.3%
AVERAGE SPEED	29.17	24	2	◆◆	2.6%
MEDIAN SPEED	29.0	23			0.0%
STANDARD DEVIATION	2.85	22			0.0%
PACE RANGE	24 - 34	21			0.0%
PERCENTAGE IN PACE	94.7%	20			0.0%
TOTAL # OF AUTOS	76	19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY

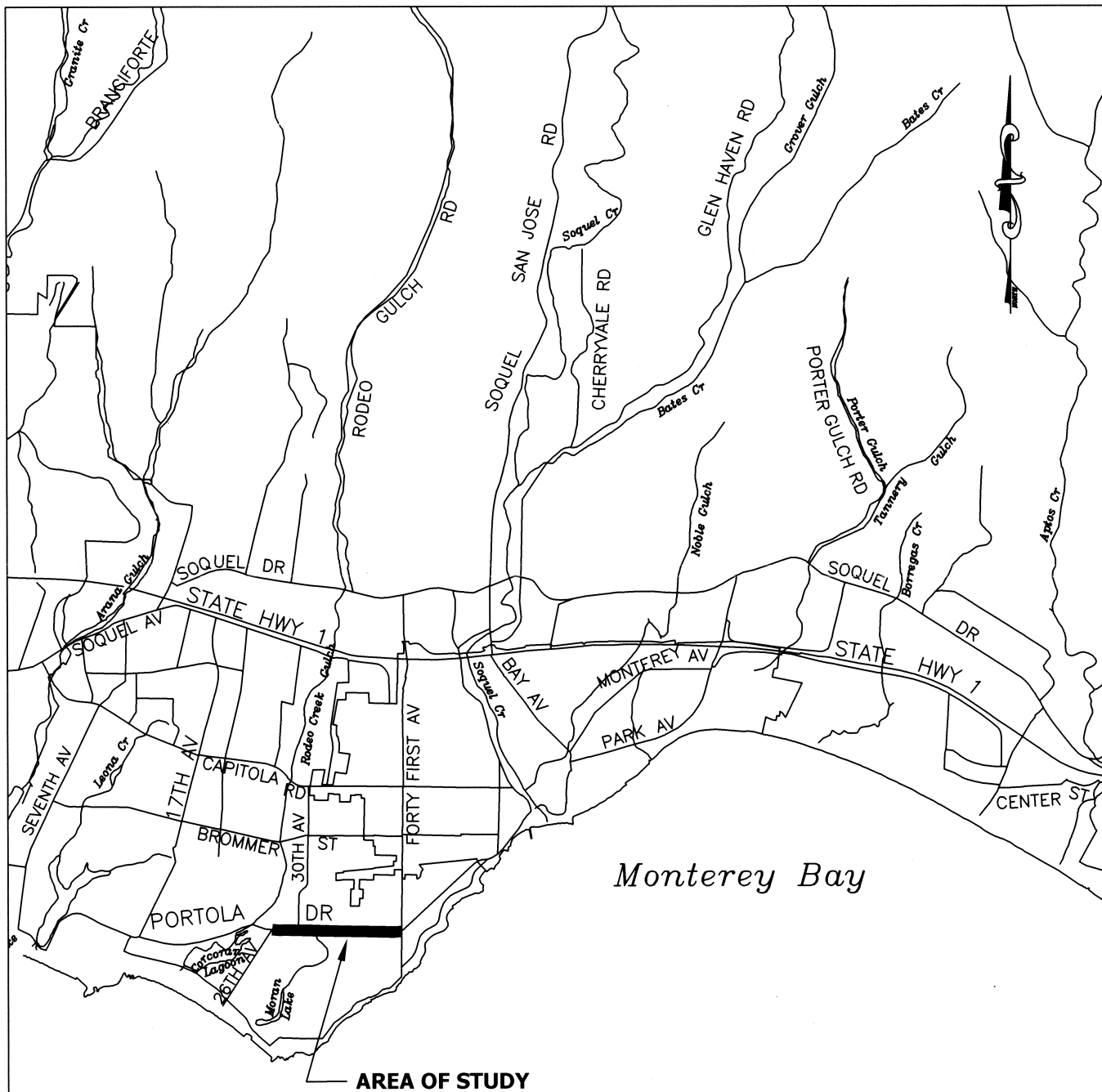
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive				
From:	26th Ave	40	2	♦♦	100.0%
To:	Coastview Dr	39			97.0%
Direction:	Westbound	38			97.0%
Weather:	Cloudy/Sunny	37			97.0%
Posted Speed:	30	36	2	♦♦	97.0%
Begin time:	11:35 AM	35	3	♦♦♦	94.0%
End time:	11:47 AM	34	3	♦♦♦	89.6%
		33	2	♦♦	85.1%
		32	5	♦♦♦♦♦	82.1%
		31	9	♦♦♦♦♦♦♦♦♦	74.6%
		30	14	♦♦♦♦♦♦♦♦♦♦♦♦♦♦	61.2%
		29	7	♦♦♦♦♦♦♦	40.3%
		28	8	♦♦♦♦♦♦♦♦	29.9%
		27	9	♦♦♦♦♦♦♦♦♦	17.9%
		26	2	♦♦	4.5%
		25	1	♦	1.5%
CRITICAL SPEED	33				
AVERAGE SPEED	30.31	24			0.0%
MEDIAN SPEED	30.0	23			0.0%
STANDARD DEVIATION	3.05	22			0.0%
PACE RANGE	27 - 37	21			0.0%
PERCENTAGE IN PACE	92.5%	20			0.0%
TOTAL # OF AUTOS	67	19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION POMONA DR @ 24th (Coastview - 26th) BY JGL
 ROAD NO _____ DATE 9/22/15 DAY TUE BEGIN 11:35 END 11:47
 POSTED SPEED 30 WEATHER CLOUDY / SUNNY
 NUMBER OF LANES 2 GRADE _____ CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION E 26+ ↓	TOTAL OF EACH SPEED	DIRECTION W Coaster ↑	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				2
39				
38				
37				
36		1		2
35		1		3
34		1		3
33		4		2
32		6		5
31		8		9
30		11		14
29		10		7
28		9		8
27		10		9
26		2		2
25		2		1
24				
23				
22				
21				
20-				
TOTAL		78	TOTAL 67	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTOLA DRIVE
26TH AVE TO 41ST AVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Portola Drive between 26th Avenue and 41st Avenue. (Speed Data collected at 3300 Portola Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	33 mph	32 mph
Pace Speed	24-34 mph	24-34 mph
Average Speed	29.3 mph	29.2 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit be maintained with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive	45	1	◆	100.0%
From:	26th Ave	44	0		98.2%
To:	41st Ave	43	0		98.2%
Direction:	Eastbound	42	0		98.2%
Weather:	Sunny	41	0		98.2%
Posted Speed:	30	40	0		98.2%
Begin time:	1:55 PM	39	0		98.2%
End time:	2:24 PM	38	0		98.2%
		37	0		98.2%
		36	0		98.2%
		35	1	◆	98.2%
		34	0		96.5%
		33	2	◆◆	96.5%
		32	8	◆◆◆◆◆◆◆◆	93.0%
		31	5	◆◆◆◆◆	78.9%
CRITICAL SPEED	32	30	10	◆◆◆◆◆◆◆◆◆◆	70.2%
AVERAGE SPEED	29.23	29	8	◆◆◆◆◆◆◆◆	52.6%
MEDIAN SPEED	29.0	28	6	◆◆◆◆◆◆	38.6%
STANDARD DEVIATION	3.49	27	8	◆◆◆◆◆◆◆◆	28.1%
PACE RANGE	24 - 34	26	3	◆◆◆	14.0%
PERCENTAGE IN PACE	93.0%	25	1	◆	8.8%
TOTAL # OF AUTOS	57	24	2	◆◆	7.0%
		23	0		3.5%
		22	1	◆	3.5%
		21	0		1.8%
		20	1	◆	1.8%

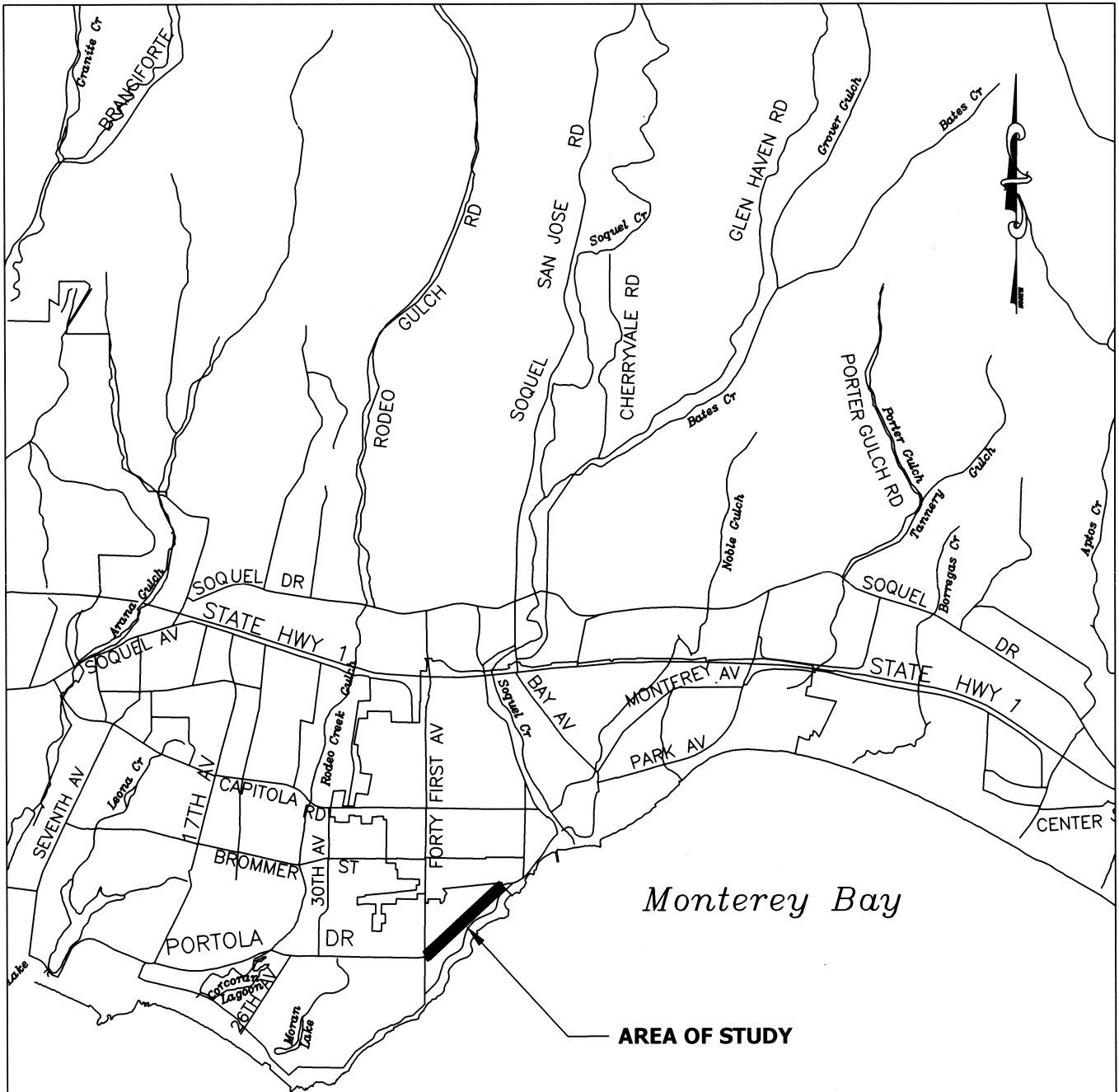
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Portola Drive			
From:	41st Ave	45	0	100.0%
To:	26th Ave	44	0	100.0%
Direction:	Westbound	43	0	100.0%
Weather:	Sunny	42	0	100.0%
Posted Speed:	30	41	0	100.0%
Begin time:	1:55 PM	40	0	100.0%
End time:	2:24 PM	39	0	100.0%
		38	0	100.0%
		37	2	100.0%
		36	3	97.4%
		35	0	93.4%
		34	5	93.4%
		33	2	86.8%
		32	7	84.2%
		31	9	75.0%
CRITICAL SPEED	33	30	7	63.2%
AVERAGE SPEED	29.29	29	8	53.9%
MEDIAN SPEED	29.0	28	9	43.4%
STANDARD DEVIATION	3.44	27	8	31.6%
PACE RANGE	24 - 34	26	5	21.1%
PERCENTAGE IN PACE	84.2%	25	3	14.5%
TOTAL # OF AUTOS	76	24	6	10.5%
		23	2	2.6%
		22	0	0.0%
		21	0	0.0%
		20	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION POERTOLA 3700 Poertola Dr BY GJM
ROAD NO 2409 DATE 10/8/14 DAY 10/8/14 BEGIN 1:55 END 2:29
POSTED SPEED 30 WEATHER SUNNY
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES			
MPH	DIRECTION <u>SC-CR</u>	TOTAL OF EACH SPEED	DIRECTION <u>CAPITOLA - SANTA CRUZ</u>
60			
59			
58			
57			
56			
55			
54			
53			
52			
51			
50			
49			
48			
47			
46			
45	<u>1</u>	<u>1</u>	
44			
43			
42			
41			
40			
39			
38			
37			<u>11</u>
36			<u>3</u>
35	<u>1</u>	<u>1</u>	
34			<u>5</u>
33	<u>11</u>	<u>2</u>	<u>2</u>
32	<u>111111</u>	<u>8</u>	<u>7</u>
31	<u>1111</u>	<u>5</u>	<u>9</u>
30	<u>11111111</u>	<u>10</u>	<u>7</u>
29	<u>111111</u>	<u>8</u>	<u>8</u>
28	<u>11111</u>	<u>6</u>	<u>9</u>
27	<u>111111</u>	<u>8</u>	<u>8</u>
26	<u>111</u>	<u>3</u>	<u>5</u>
25	<u>1</u>	<u>1</u>	<u>3</u>
24	<u>11</u>	<u>2</u>	<u>6</u>
23			<u>2</u>
22	<u>1</u>	<u>1</u>	
21			
20	<u>1</u>	<u>1</u>	
TOTAL		<u>57</u>	TOTAL <u>76</u>



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
PORTOLA DRIVE
41ST AVE TO CAPITOLA CITY LIMITS**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Portola Drive between 41st Avenue and the City of Capitola. (Speed Data collected at 4535 Portola Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	30 mph	29 mph
Pace Speed	23-33 mph	23-33 mph
Average Speed	27.52 mph	26.54 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 MPH and 29 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Portola Drive			
From:	City of Capitola	37	1 ♦	100.0%
To:	41st Ave	36		98.4%
Direction:	Westbound	35	1 ♦	98.4%
Weather:	Cloudy	34		96.8%
Posted Speed:	25	33		96.8%
Begin time:	11:05 AM	32		96.8%
End time:	11:14 AM	31	6 ♦♦♦♦♦♦	96.8%
		30	7 ♦♦♦♦♦♦♦	87.3%
		29	8 ♦♦♦♦♦♦♦♦	76.2%
		28	7 ♦♦♦♦♦♦♦	63.5%
		27	8 ♦♦♦♦♦♦♦♦	52.4%
		26	8 ♦♦♦♦♦♦♦♦	39.7%
		25	8 ♦♦♦♦♦♦♦♦	27.0%
		24	7 ♦♦♦♦♦♦♦	14.3%
		23	2 ♦♦	3.2%
CRITICAL SPEED	30	22		0.0%
AVERAGE SPEED	27.52	21		0.0%
MEDIAN SPEED	27.0	20		0.0%
STANDARD DEVIATION	2.78	19		0.0%
PACE RANGE	23 - 33	18		0.0%
PERCENTAGE IN PACE	96.8%	17		0.0%
TOTAL # OF AUTOS	63	16		0.0%
		15		0.0%

RADAR SPEED SURVEY

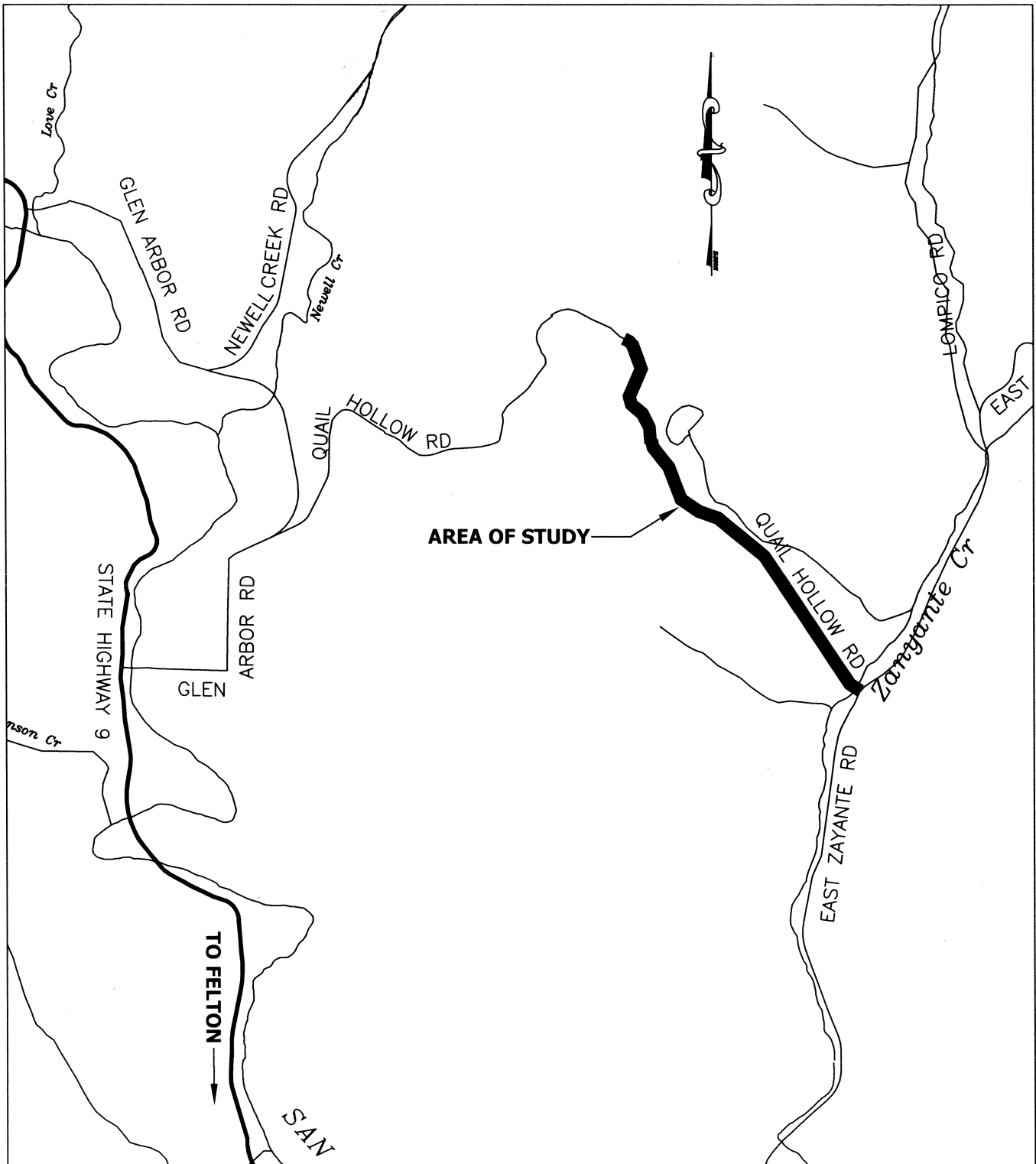
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive				
From:	41st Ave	36	1	◆	100.0%
To:	City of Capitola	35			98.5%
Direction:	Eastbound	34			98.5%
Weather:	Cloudy	33			98.5%
Posted Speed:	25	32	2	◆◆	98.5%
Begin time:	11:05 AM	31	2	◆◆	95.6%
End time:	11:14 AM	30	5	◆◆◆◆◆	92.6%
		29	5	◆◆◆◆◆	85.3%
		28	6	◆◆◆◆◆◆	77.9%
		27	8	◆◆◆◆◆◆◆◆	69.1%
		26	12	◆◆◆◆◆◆◆◆◆◆	57.4%
		25	12	◆◆◆◆◆◆◆◆◆◆	39.7%
		24	8	◆◆◆◆◆◆◆◆	22.1%
		23	6	◆◆◆◆◆◆	10.3%
		22	1	◆	1.5%
CRITICAL SPEED	29	21			0.0%
AVERAGE SPEED	26.54	20			0.0%
MEDIAN SPEED	26.0	19			0.0%
STANDARD DEVIATION	2.66	18			0.0%
PACE RANGE	23 - 33	17			0.0%
PERCENTAGE IN PACE	97.1%	16			0.0%
TOTAL # OF AUTOS	68	15			0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION PURCELL BLVD @ #4535 (41st - 42nd - 43rd) BY JGL
ROAD NO _____ DATE 9/22/15 DAY TUE BEGIN 11:05 AM END 11:21 AM
POSTED SPEED 25 WEATHER Cloudy
NUMBER OF LANES 2 GRADE flat CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION W 9122 ↓	TOTAL OF EACH SPEED	DIRECTION E 0912201 ↑	TOTAL OF EACH SPEED
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				
35				
34				
33				
32				
31	11 - 1	6	11 - 1	2
30	11 - 1	7	11 - 1	5
29	11 - 1	8	11 - 1	5
28	11 - 1	7	11 - 1	6
27	11 - 1	8	11 - 1	8
26	11 - 1	8	11 - 1	12
25	11 - 1	8	11 - 1	12
24	11 - 1	7	11 - 1	8
23	11 - 1	2	11 - 1	6
22				
21				
20				
TOTAL		63	TOTAL 68	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
QUAIL HOLLOW ROAD
1.2 MI E OF GLEN ARBOR RD TO EAST ZAYANTE RD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Quail Hollow Road from 1.2 miles east of Glen Arbor Road to East Zayante Road
(Speed Data collected south at Eggleston Lane)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 mph and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	41 mph	39 mph
Pace Speed	32-42 mph	31-41 mph
Average Speed	36.60 mph	35.54 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 MPH and 41 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are an adjacent county park, adjacent sand quarry with slow trucks, safe stopping sight distance, numerous driveways and private roads and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Quail Hollow Road			
From:	1.2 mi E of Glen Arbor Rd	46	0	100.0%
To:	E Zayante Rd	45	2 ♦♦	100.0%
Direction:	EB	44	0	96.9%
Weather:	Overcast	43	2 ♦♦	96.9%
Posted Speed:	35	42	3 ♦♦♦	93.8%
Begin time:	1:45 PM	41	5 ♦♦♦♦♦	89.2%
End time:	3:05 PM	40	5 ♦♦♦♦♦	81.5%
		39	5 ♦♦♦♦♦	73.8%
		38	3 ♦♦♦	66.2%
		37	4 ♦♦♦♦	61.5%
		36	9 ♦♦♦♦♦♦♦♦♦	55.4%
		35	9 ♦♦♦♦♦♦♦♦♦	41.5%
		34	7 ♦♦♦♦♦♦♦	27.7%
		33	1 ♦	16.9%
		32	5 ♦♦♦♦♦	15.4%
CRITICAL SPEED	41	31	1 ♦	7.7%
AVERAGE SPEED	36.60	30	1 ♦	6.2%
MEDIAN SPEED	36.0	29	1 ♦	4.6%
STANDARD DEVIATION	3.94	28	1 ♦	3.1%
PACE RANGE	32 - 42	27	1 ♦	1.5%
PERCENTAGE IN PACE	81.5%	26	0	0.0%
TOTAL # OF AUTOS	65	25	0	0.0%
		24	0	0.0%
		23	0	0.0%
		22	0	0.0%
		21	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Quail Hollow Road			
From:	1.2 mi E of Glen Arbor Rd	46	0	100.0%
To:	E Zayante Rd	45	0	100.0%
Direction:	WB	44	0	100.0%
Weather:	Overcast	43	0	100.0%
Posted Speed:	35	42	0	100.0%
Begin time:	1:45 PM	41	2	100.0%
End time:	3:05 PM	40	4	96.7%
		39	7	90.2%
		38	5	78.7%
		37	11	70.5%
		36	6	52.5%
		35	5	42.6%
		34	5	34.4%
		33	4	26.2%
		32	3	19.7%
		31	3	14.8%
CRITICAL SPEED	39	31	3	14.8%
AVERAGE SPEED	35.54	30	3	9.8%
MEDIAN SPEED	36.0	29	1	4.9%
STANDARD DEVIATION	3.37	28	1	3.3%
PACE RANGE	31 - 41	27	1	1.6%
PERCENTAGE IN PACE	86.9%	26	0	0.0%
TOTAL # OF AUTOS	61	25	0	0.0%
		24	0	0.0%
		23	0	0.0%
		22	0	0.0%
		21	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION QUAIL Hollow AT EGGLESON LN. BY RP
 ROAD NO _____ DATE 1/16/15 DAY PM BEGIN 1:45 END 3:05
 POSTED SPEED 35 WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 3% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION EB	TOTAL OF EACH SPEED	DIRECTION WB	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45		2		
44				
43		2		
42		3		
41		5		2
40		5		4
39		5		4
38		3		5
37		4		1
36		9		6
35		9		5
34		7		5
33		1		4
32		5		3
31		1		6
30		1		3
29		1		1
28		1		1
27		1		1
26				
25				
24				
23				
22				
21				
20-				
TOTAL		65	TOTAL 61	

35

30



TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Quail Hollow Road from Glen Arbor Road to 1.2 miles east of Glen Arbor Road
(Speed Data collected south of Vista Robles Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	32 mph	34 mph
Pace Speed	25-35 mph	24-34 mph
Average Speed	29.64 mph	29.04 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH and 34 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Quail Hollow Road			
From:	Glen Arbor Road	39	0	100.0%
To:	1.2 mi E of Glen Arbor Rd	38	1 ♦	100.0%
Direction:	EB	37	1 ♦	98.2%
Weather:	Sunny	36	0	96.4%
Posted Speed:	30	35	1 ♦	96.4%
Begin time:	3:00 PM	34	1 ♦	94.5%
End time:	4:11 PM	33	4 ♦♦♦♦	92.7%
		32	6 ♦♦♦♦♦♦	85.5%
		31	6 ♦♦♦♦♦♦	74.5%
		30	6 ♦♦♦♦♦♦	63.6%
		29	10 ♦♦♦♦♦♦♦♦	52.7%
		28	10 ♦♦♦♦♦♦♦♦	34.5%
		27	3 ♦♦♦	16.4%
		26	1 ♦	10.9%
		25	3 ♦♦♦	9.1%
CRITICAL SPEED	32	24	0	3.6%
AVERAGE SPEED	29.64	23	1 ♦	3.6%
MEDIAN SPEED	29.0	22	0	1.8%
STANDARD DEVIATION	3.08	21	1 ♦	1.8%
PACE RANGE	25 - 35	20	0	0.0%
PERCENTAGE IN PACE	90.9%	19		0.0%
TOTAL # OF AUTOS	55	18	0	0.0%
		17		0.0%
		16	0	0.0%
		15	0	0.0%
			0	

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Quail Hollow Road	43	0	100.0%
From:	Glen Arbor Road	42	1 ♦	100.0%
To:	1.2 mi E of Glen Arbor Rd	41	0	98.7%
Direction:	WB	40	0	98.7%
Weather:	Sunny	39	0	98.7%
Posted Speed:	30	38	1 ♦	98.7%
Begin time:	3:00 PM	37	2 ♦♦	97.5%
End time:	4:11 PM	36	2 ♦♦	94.9%
		35	4 ♦♦♦♦	92.4%
		34	4 ♦♦♦♦	87.3%
		33	6 ♦♦♦♦♦♦	82.3%
		32	3 ♦♦♦	74.7%
		31	4 ♦♦♦♦	70.9%
		30	7 ♦♦♦♦♦♦♦	65.8%
		29	6 ♦♦♦♦♦♦	57.0%
CRITICAL SPEED	34	28	8 ♦♦♦♦♦♦♦♦	49.4%
AVERAGE SPEED	29.04	27	9 ♦♦♦♦♦♦♦♦♦	39.2%
MEDIAN SPEED	29.0	26	5 ♦♦♦♦♦	27.8%
STANDARD DEVIATION	4.52	25	5 ♦♦♦♦♦	21.5%
PACE RANGE	24 - 34	24	5 ♦♦♦♦♦	15.2%
PERCENTAGE IN PACE	73.4%	23	0	8.9%
TOTAL # OF AUTOS	79	22	3 ♦♦♦	8.9%
		21	2 ♦♦	5.1%
		20	2 ♦♦	2.5%
		19	0	0.0%
		18	0	0.0%

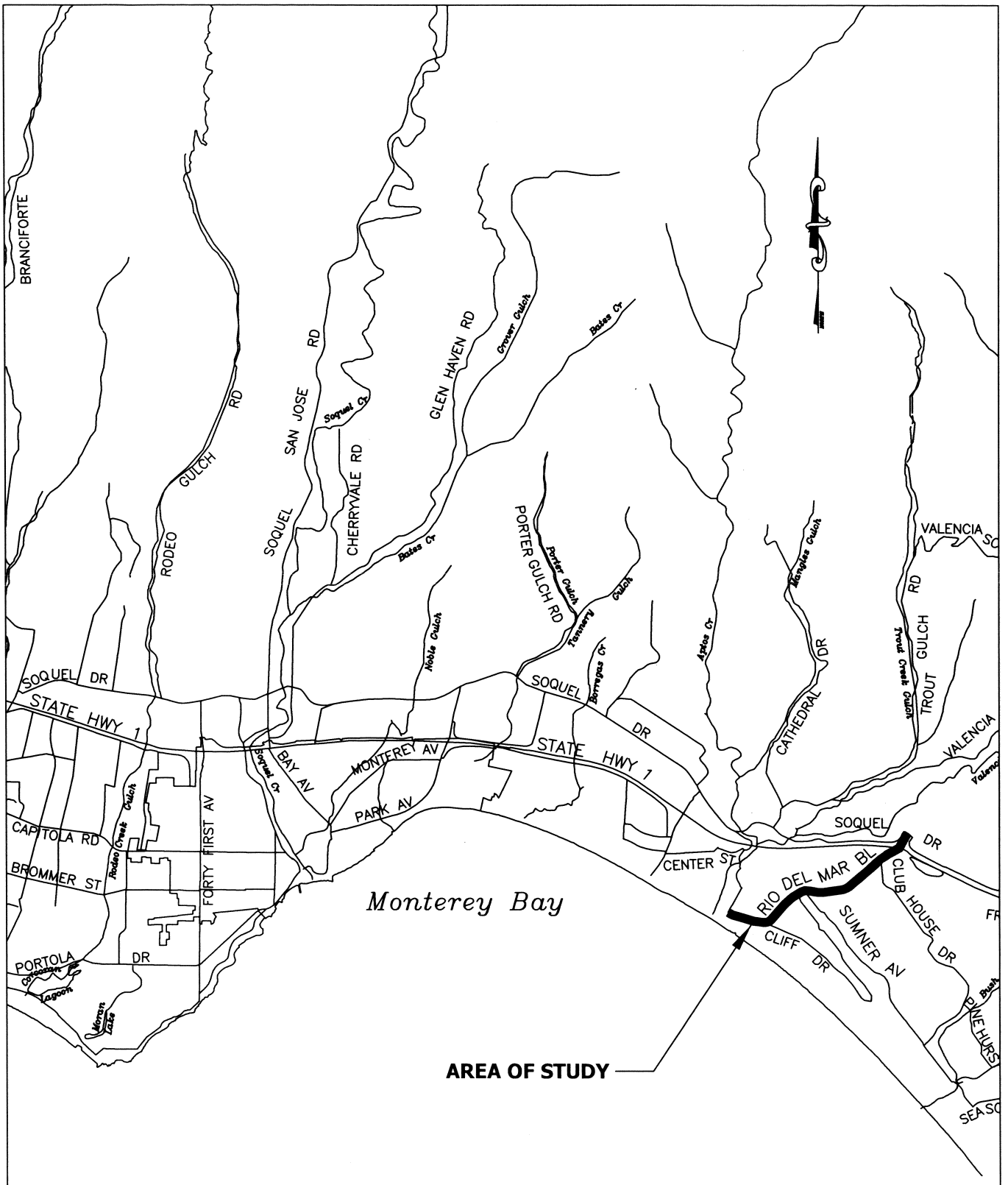
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION QUAIL Hollow S. of VISTA ROGUES DR. BY PR
 ROAD NO _____ DATE 1/3/15 DAY 1/13/15 BEGIN 3:00 END 4:11
 POSTED SPEED 30 WEATHER Sunny
 NUMBER OF LANES 2 GRADE _____ CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION <div>WB</div>	TOTAL OF EACH SPEED	DIRECTION <div>EB</div>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42		1		
41				
40				
39				
38				1
37		2	1	1
36		4		
35		6	1	1
34		4		
33		7	4	4
32		6	6	6
31		4	6	6
30		7	6	6
29		6	10	10
28		8	10	10
27		9	3	3
26		5	3	3
25		5	3	3
24		5		
23			1	1
22		3		
21		1	1	1
20-				
TOTAL		71	TOTAL 55	

GATE AT WORK, 30 MPH



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
RIO DEL MAR BOULEVARD
SOQUEL DRIVE TO ESPLANADE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Rio Del Mar Boulevard from Soquel Drive to Esplanade (Speed Data collected at Claudius Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	31 mph	31 mph
Pace Speed	25-35 mph	22-32 mph
Average Speed	27.83 mph	26.96 mph

ANALYSIS:

The prevailing 85th percentile speed is 31 MPH speed on either direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are numerous driveways, safe stopping sight distance, prima-facie residential district, and pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Rio Del Mar Blvd				
From:	Soquel Drive	35	0		100.0%
To:	Esplanade	34	2	♦♦	100.0%
Direction:	NB	33	2	♦♦	96.6%
Weather:	Sunny	32	4	♦♦♦♦	93.2%
Posted Speed:	25	31	4	♦♦♦♦	86.4%
Begin time:	9:40 AM	30	7	♦♦♦♦♦♦♦	79.7%
End time:	10:30 AM	29	4	♦♦♦♦	67.8%
		28	7	♦♦♦♦♦♦♦	61.0%
		27	5	♦♦♦♦♦	49.2%
		26	11	♦♦♦♦♦♦♦♦♦♦♦	40.7%
		25	7	♦♦♦♦♦♦♦	22.0%
		24	2	♦♦	10.2%
		23	2	♦♦	6.8%
		22	2	♦♦	3.4%
		21	0		0.0%
CRITICAL SPEED	31	20	0		0.0%
AVERAGE SPEED	27.83	19	0		0.0%
MEDIAN SPEED	28.0	18	0		0.0%
STANDARD DEVIATION	2.99	17	0		0.0%
PACE RANGE	25 - 35	16	0		0.0%
PERCENTAGE IN PACE	89.8%	15	0		0.0%
TOTAL # OF AUTOS	59		0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Rio Del Mar Boulevard			
From:	Soquel Drive	37	0	100.0%
To:	Esplanade	36	1 ♦	100.0%
Direction:	SB	35	1 ♦	98.5%
Weather:	Sunny	34	3 ♦♦♦	97.0%
Posted Speed:	25	33	1 ♦	92.5%
Begin time:	9:40 AM	32	0	91.0%
End time:	10:30 AM	31	5 ♦♦♦♦♦	91.0%
		30	3 ♦♦♦	83.6%
		29	3 ♦♦♦	79.1%
		28	11 ♦♦♦♦♦♦♦♦♦♦	74.6%
		27	9 ♦♦♦♦♦♦♦♦	58.2%
		26	12 ♦♦♦♦♦♦♦♦♦♦	44.8%
		25	3 ♦♦♦	26.9%
		24	4 ♦♦♦♦	22.4%
		23	2 ♦♦	16.4%
CRITICAL SPEED	31	22	5 ♦♦♦♦♦	13.4%
AVERAGE SPEED	26.96	21	0	6.0%
MEDIAN SPEED	27.0	20	2 ♦♦	6.0%
STANDARD DEVIATION	3.69	19	2 ♦♦	3.0%
PACE RANGE	22 - 32	18	0	0.0%
PERCENTAGE IN PACE	85.1%	17	0	0.0%
TOTAL # OF AUTOS	67	16	0	0.0%
		15	0	0.0%
			0	
			0	
			0	

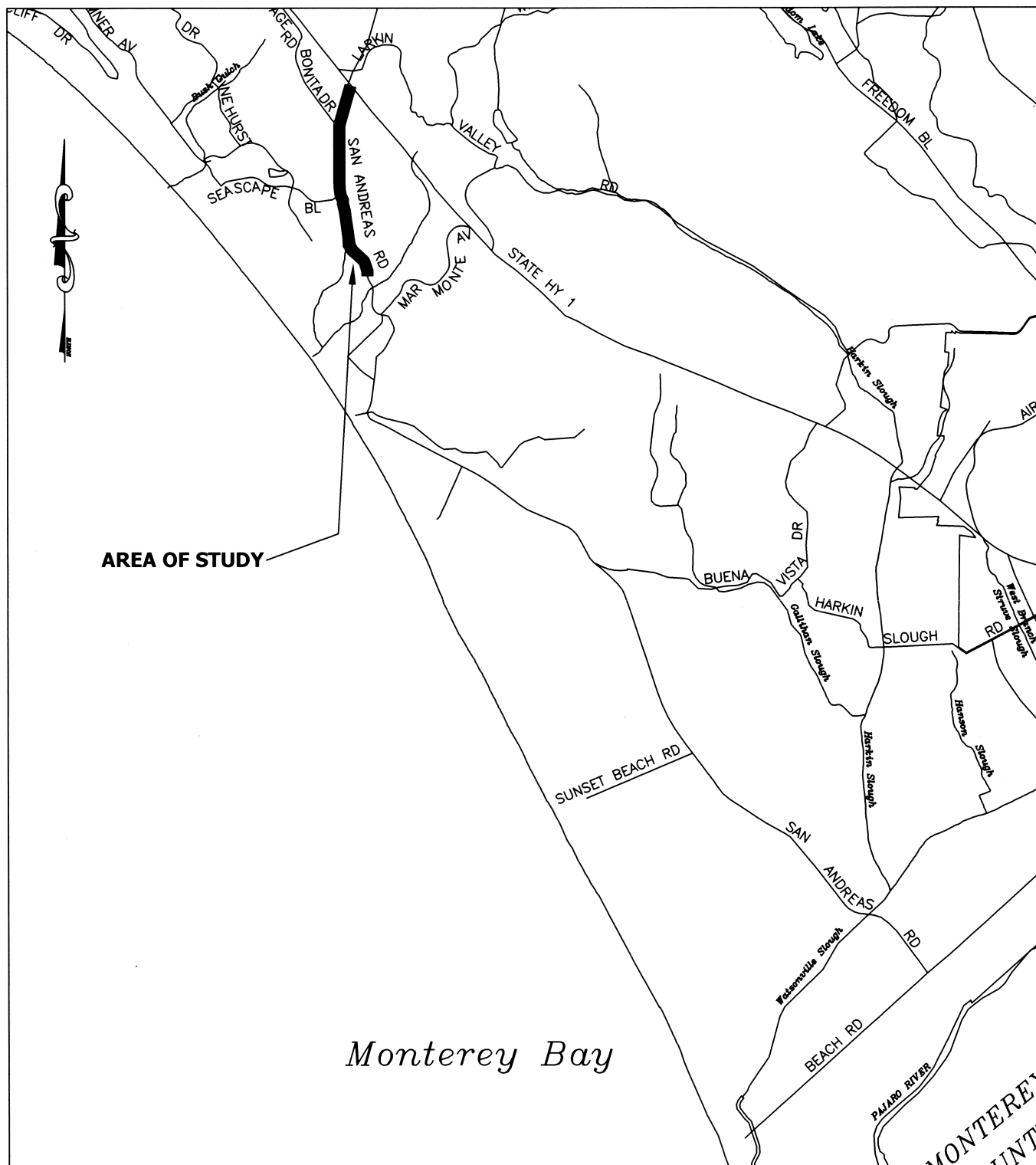
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION RIO DEL MAR BLVD AT CLAUDIUS DR BY RR
 ROAD NO _____ DATE 10/6 DAY _____ BEGIN 9:40 END 10:30
 POSTED SPEED 25 MPH WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 10% L CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION <i>WB → OCEAN SB</i>	TOTAL OF EACH SPEED	DIRECTION <i>EB ← NB</i>	TOTAL OF EACH SPEED
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		1		
35		1		
34		3		2
33		1		2
32				4
31		5		4
30		3		7
29		3		4
28		11		7
27		9		5
26		12		11
25		3		7
24		4		2
23		2		2
22		5		2
21				
20-		2		
19				
— 2		TOTAL	TOTAL	
		67		59

30
25



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SAN ANDREAS ROAD
STATE HIGHWAY ONE TO 0.25 MILES
NORTHWESTERLY OF MAR MONTE-PLAYA BOULEVARD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

San Andreas Road from State Highway One to 0.25 miles northwesterly of Mar Monte Avenue – Playa Boulevard (speed data collected at Byers Lane).

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	45 mph	47 mph
Pace Speed	36-46 mph	37-47 mph
Average Speed	40.38 mph	40.96 mph

ANALYSIS:

The prevailing 85th percentile speeds are 47 MPH and 45 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 45 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are a safe stopping sight distance, and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: San Andreas Road
 From: HWY 1
 To: Mar Monte- Playa Blvd
 Direction: Northbound
 Weather: Sunny
 Posted Speed: 40
 Begin time: 2:13 PM
 End time: 3:05 PM

CRITICAL SPEED
 AVERAGE SPEED
 MEDIAN SPEED
 STANDARD DEVIATION
 PACE RANGE
 PERCENTAGE IN PACE
 TOTAL # OF AUTOS

45
 40.38
 41.0
 4.48
 36 - 46
 74.7%
 87

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
52	2	♦♦	100.0%
51	1	♦	97.7%
50	1	♦	96.6%
49	1	♦	95.4%
48			94.3%
47	3	♦♦♦	94.3%
46	3	♦♦♦	90.8%
45	4	♦♦♦♦	87.4%
44	3	♦♦♦	82.8%
43	4	♦♦♦♦	79.3%
42	9	♦♦♦♦♦♦♦♦♦	74.7%
41	13	♦♦♦♦♦♦♦♦♦♦♦♦♦	64.4%
40	7	♦♦♦♦♦♦♦	49.4%
39	7	♦♦♦♦♦♦♦	41.4%
38	2	♦♦	33.3%
37	10	♦♦♦♦♦♦♦♦♦♦	31.0%
36	6	♦♦♦♦♦♦	19.5%
35	4	♦♦♦♦	12.6%
34	1	♦	8.0%
33	4	♦♦♦♦	6.9%
32	2	♦♦	2.3%
31			0.0%
30			0.0%
29			0.0%
28			0.0%
27			0.0%
26			0.0%
25			0.0%
24			0.0%
23			0.0%
22			0.0%
21			0.0%
20			0.0%
19			0.0%

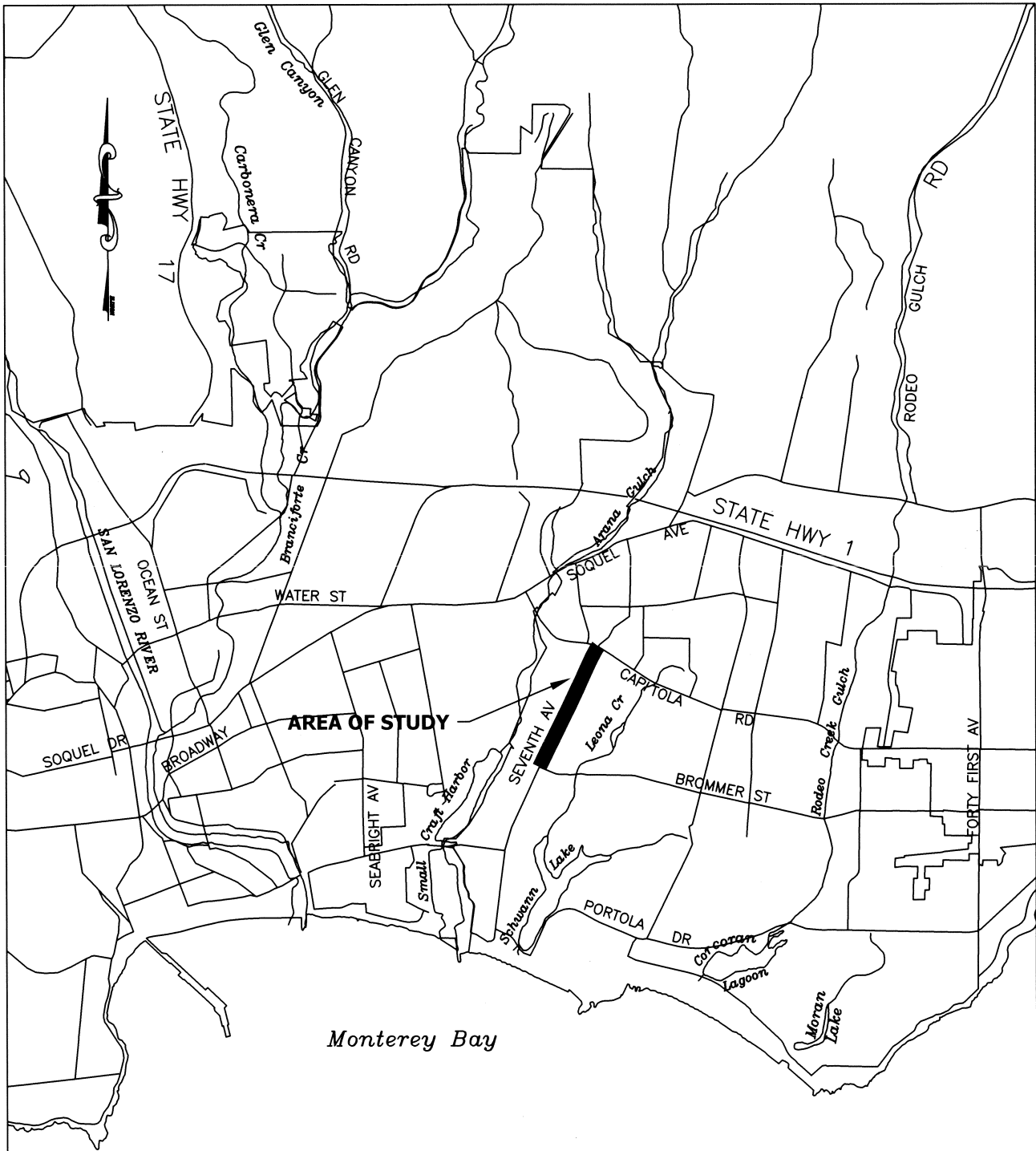
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	San Andreas Road			
From:	HWY 1	52		100.0%
To:	Mar Monte- Playa Blvd	51		100.0%
Direction:	Southbound	50	1 ♦	100.0%
Weather:	Sunny	49	2 ♦♦	98.7%
Posted Speed:	40	48	5 ♦♦♦♦♦	96.2%
Begin time:	2:13 PM	47	4 ♦♦♦♦	89.7%
End time:	3:05 PM	46	6 ♦♦♦♦♦♦	84.6%
		45	4 ♦♦♦♦	76.9%
		44	6 ♦♦♦♦♦♦	71.8%
		43	1 ♦	64.1%
		42	5 ♦♦♦♦♦	62.8%
		41	5 ♦♦♦♦♦	56.4%
		40	9 ♦♦♦♦♦♦♦♦♦	50.0%
		39	5 ♦♦♦♦♦	38.5%
		38	4 ♦♦♦♦	32.1%
		37	6 ♦♦♦♦♦♦	26.9%
CRITICAL SPEED	47	36	3 ♦♦♦	19.2%
AVERAGE SPEED	40.96	35	3 ♦♦♦	15.4%
MEDIAN SPEED	40.5	34	4 ♦♦♦♦	11.5%
STANDARD DEVIATION	4.80	33	4 ♦♦♦♦	6.4%
PACE RANGE	37 - 47	32		1.3%
PERCENTAGE IN PACE	65.4%	31	1 ♦	1.3%
TOTAL # OF AUTOS	78	30		0.0%
		29		0.0%
		28		0.0%
		27		0.0%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SAN ANDREAS (SOUTH OF DYER'S CANYON) BY JGL
 ROAD NO DATE 12/09/14 DAY THURSDAY BEGIN 9:55AM END 10:14AM
 POSTED SPEED 40 MPH WEATHER SMNNY 72°
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION <div>↓ S</div>	TOTAL OF EACH SPEED	DIRECTION <div>↑ N</div>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52			11	2
51			1	1
50	1	1	1	1
49	1	2	1	1
48	11 -	5		0
47	111	4	111	3
46	111 - 1	6	111	3
45	111	4	111	4
44	111 - 1	6	111	3
43	1	1	111	4
42	111 -	5	111 - 111	9
41	111 -	5	111 - 111 - 111	13
40	111 - 111	9	111 - 11	7
39	111 -	5	111 - 11	7
38	111	4	11	2
37	111 - 1	6	111 - 111 -	10
36	111	3	111 - 1	6
35	111	3	111	2
34	111	4	1	1
33	111	4	111	2
32			11	2
31	1	1		
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		78✓	TOTAL 87	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SEVENTH AVENUE
CAPITOLA ROAD TO BROMMER ST**

OCTOBER 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Seventh Avenue from Capitola Road to Brommer Street (Speed Data collected at 1267 7th Ave.)

PREVAILING SPEED DATA:

The existing speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	32 mph	33 mph
Pace Speed	25-35 mph	25-35 mph
Average Speed	29.2 mph	29.0 mph

ANALYSIS:

The prevailing 85th percentile speeds are 32 MPH and 33 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are a prima-facie residential district, bike lanes, pedestrians, major arterial with regional access to beach and harbor, numerous driveways and limited sight distance for vehicles entering the roadway due to parking along the road. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	7th Avenue	40	0	100.0%
From:	Capitola Rd	39	0	100.0%
To:	Brommer St	38	1 ♦	100.0%
Direction:	Southbound	37	1 ♦	98.3%
Weather:	Sunny	36	1 ♦	96.6%
Posted Speed:	25	35	0	94.9%
Begin time:	2:38 PM	34	1 ♦	94.9%
End time:	3:05 PM	33	6 ♦♦♦♦♦♦	93.2%
		32	3 ♦♦♦	83.1%
		31	6 ♦♦♦♦♦♦	78.0%
		30	7 ♦♦♦♦♦♦♦	67.8%
		29	7 ♦♦♦♦♦♦♦	55.9%
		28	6 ♦♦♦♦♦♦	44.1%
		27	8 ♦♦♦♦♦♦♦♦	33.9%
		26	2 ♦♦	20.3%
CRITICAL SPEED	33	25	5 ♦♦♦♦♦	16.9%
AVERAGE SPEED	28.98	24	1 ♦	8.5%
MEDIAN SPEED	29.0	23	1 ♦	6.8%
STANDARD DEVIATION	3.59	22	1 ♦	5.1%
PACE RANGE	25 - 35	21	2 ♦♦	3.4%
PERCENTAGE IN PACE	86.4%	20	0	0.0%
TOTAL # OF AUTOS	59	19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%
		15	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	7th Avenue				
From:	Brommer St	40	1	◆	100.0%
To:	Capitola Rd	39	1	◆	98.3%
Direction:	Northbound	38	1	◆	96.7%
Weather:	Sunny	37	0		95.0%
Posted Speed:	25	36	0		95.0%
Begin time:	2:38 PM	35	1	◆	95.0%
End time:	3:05 PM	34	1	◆	93.3%
		33	1	◆	91.7%
		32	8	◆◆◆◆◆◆◆◆	90.0%
		31	6	◆◆◆◆◆◆	76.7%
		30	3	◆◆◆	66.7%
		29	9	◆◆◆◆◆◆◆◆◆	61.7%
		28	9	◆◆◆◆◆◆◆◆◆	46.7%
		27	7	◆◆◆◆◆◆◆	31.7%
		26	7	◆◆◆◆◆◆◆	20.0%
		25	2	◆◆	8.3%
CRITICAL SPEED	32	24	0		5.0%
AVERAGE SPEED	29.17	23	0		5.0%
MEDIAN SPEED	29.0	22	2	◆◆	5.0%
STANDARD DEVIATION	3.61	21	1	◆	1.7%
PACE RANGE	25 - 35	20	0		0.0%
PERCENTAGE IN PACE	88.3%	19	0		0.0%
TOTAL # OF AUTOS	60	18	0		0.0%
		17	0		0.0%
		16	0		0.0%
		15	0		0.0%

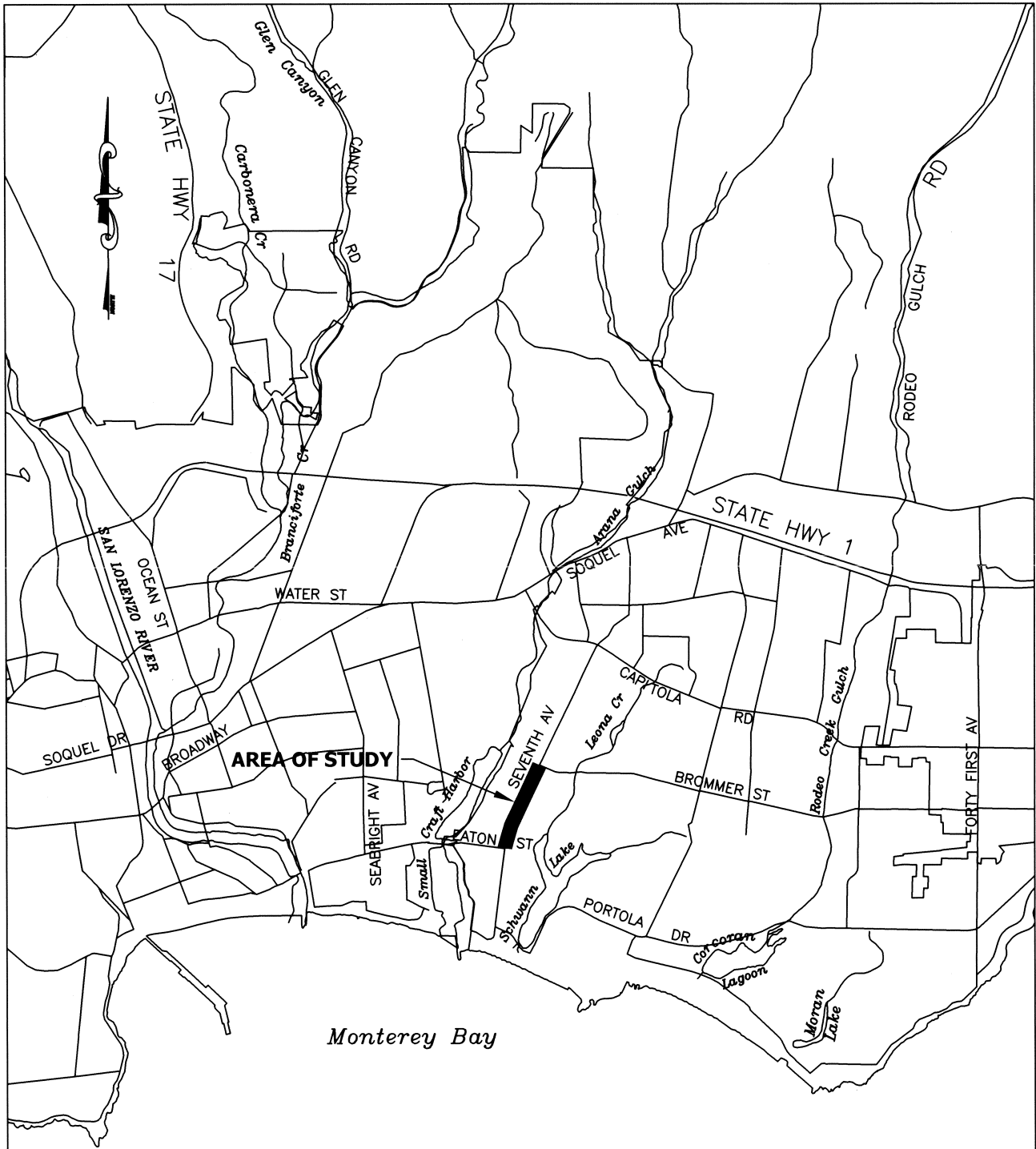
RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION 1267 7TH CAPITOLA - BRONNER BY GJM
ROAD NO 2402 DATE 10/8/14 DAY Wed BEGIN 2:30 END 3:05
POSTED SPEED 25 WEATHER CLEAR / WARM
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION OCEAN - INLAND NORTH	TOTAL OF EACH SPEED	DIRECTION SOUTH	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40	/	1		
39	/	1		
38	/	1	/	1
37			/	1
36			/	1
35	/	1		
34	/	1	/	1
33	/	1	/ / / / /	6
32	/ / / / /	8	/ / /	3
31	/ / / / /	6	/ / / / /	6
30	/ /	3	/ / / / /	7
29	/ / / / / /	9	/ / / / /	7
28	/ / / / / /	9	/ / / / /	6
27	/ / / / /	7	/ / / / / /	8
26	/ / / / /	7	/ / /	2
25	/ /	2	/ / / /	5
24			/	1
23			/	1
22	/ /	2	/	1
21	/	1	/ /	2
20				
TOTAL		60	TOTAL 59	

210



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SEVENTH AVENUE
BROMMER ST TO EATON ST**

OCTOBER 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Seventh Avenue from Brommer Street to Eaton Street (Speed Data collected at 841 7th Avenue)

PREVAILING SPEED DATA:

The existing speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	29 mph	29 mph
Pace Speed	23-33 mph	22-32 mph
Average Speed	26.48 mph	26.75 mph

ANALYSIS:

The prevailing 85th percentile speeds is 29 MPH in both directions of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	7th Avenue				
From:	Brommer St	36	1	◆	100.0%
To:	Eaton St	35			98.5%
Direction:	Southbound	34			98.5%
Weather:	Cloudy/Sunny	33	1	◆	98.5%
Posted Speed:	25	32			97.0%
Begin time:	10:27 AM	31	4	◆◆◆◆	97.0%
End time:	10:42 AM	30	4	◆◆◆◆	91.0%
		29	5	◆◆◆◆◆	85.1%
		28	7	◆◆◆◆◆◆◆	77.6%
		27	8	◆◆◆◆◆◆◆◆	67.2%
		26	12	◆◆◆◆◆◆◆◆◆◆	55.2%
		25	13	◆◆◆◆◆◆◆◆◆◆◆◆	37.3%
		24	10	◆◆◆◆◆◆◆◆◆◆	17.9%
		23	1	◆	3.0%
		22	1	◆	1.5%
CRITICAL SPEED	29	21			0.0%
AVERAGE SPEED	26.75	20			0.0%
MEDIAN SPEED	26.0	19			0.0%
STANDARD DEVIATION	2.57	18			0.0%
PACE RANGE	22 - 32	17			0.0%
PERCENTAGE IN PACE	97.0%	16			0.0%
TOTAL # OF AUTOS	67				

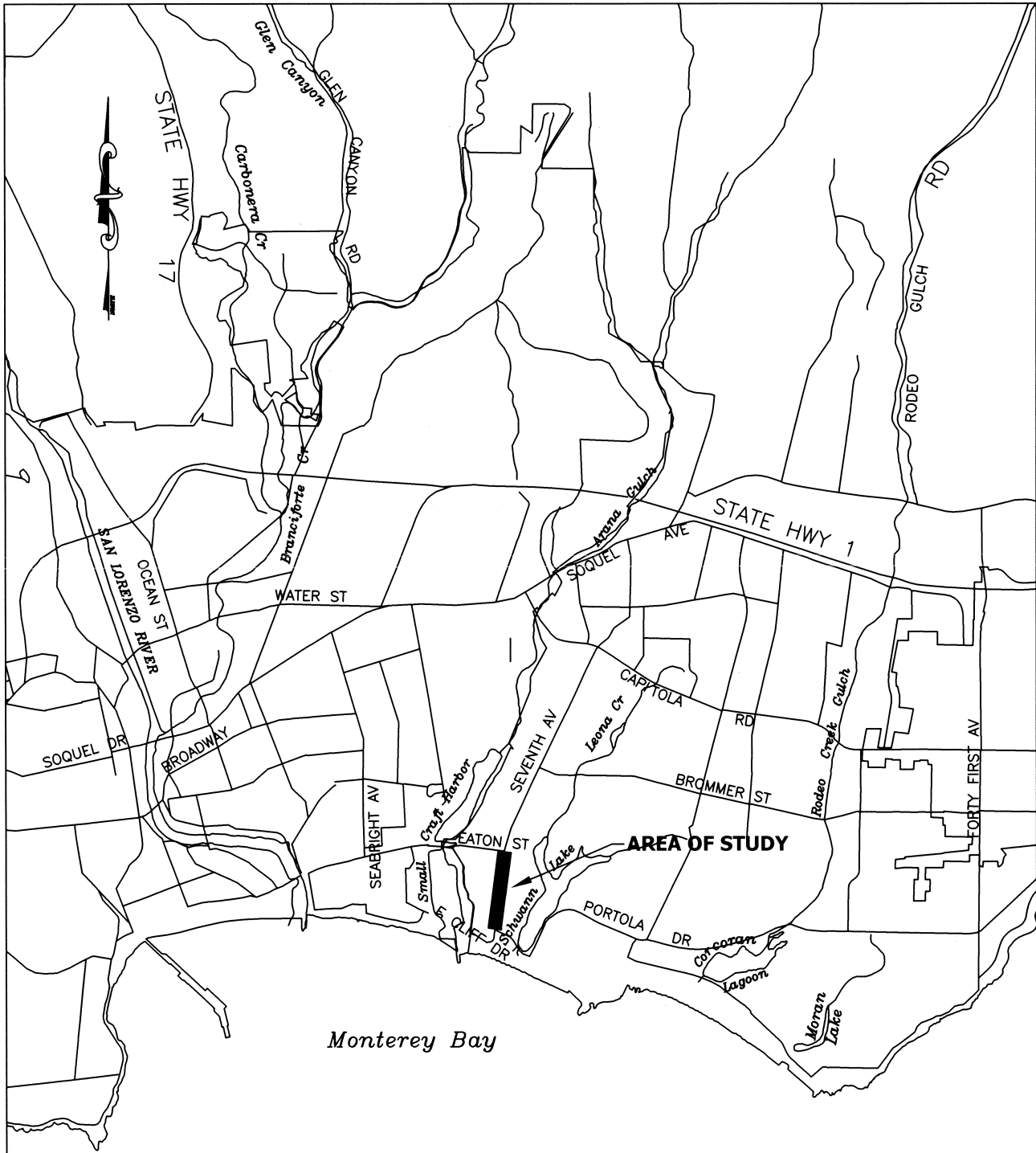
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	7th Avenue	36			100.0%
From:	Eaton St	35			100.0%
To:	Brommer St	34	1	◆	100.0%
Direction:	Northbound	33			98.4%
Weather:	Cloudy/Sunny	32	1	◆	98.4%
Posted Speed:	25	31	2	◆◆	96.8%
Begin time:	10:27 AM	30	4	◆◆◆◆	93.7%
End time:	10:42 AM	29	5	◆◆◆◆◆	87.3%
		28	6	◆◆◆◆◆◆	79.4%
		27	7	◆◆◆◆◆◆◆	69.8%
		26	11	◆◆◆◆◆◆◆◆◆◆	58.7%
		25	12	◆◆◆◆◆◆◆◆◆◆◆◆	41.3%
		24	11	◆◆◆◆◆◆◆◆◆◆◆◆	22.2%
		23	2	◆◆	4.8%
		22	1	◆	1.6%
CRITICAL SPEED	29	21			0.0%
AVERAGE SPEED	26.48	20			0.0%
MEDIAN SPEED	26.0	19			0.0%
STANDARD DEVIATION	2.43	18			0.0%
PACE RANGE	23 - 33	17			0.0%
PERCENTAGE IN PACE	96.8%	16			0.0%
TOTAL # OF AUTOS	63				

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 7th AVENUE @ 8th (Eaton - Bremner) BY JLC
 ROAD NO _____ DATE 9/23/15 DAY WED BEGIN 1027 END 1043
 POSTED SPEED 25 WEATHER CLOUDY / SUNNY
 NUMBER OF LANES 2 GRADE 0% CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION <div>S Eaton</div>	TOTAL OF EACH SPEED	DIRECTION <div>N Baker</div>	TOTAL OF EACH SPEED
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		1		
35				
34				1
33		1		
32				1
31		4		2
30		4		4
29		5		5
28		7		6
27		8		7
26		12		11
25		13		12
24		10		11
23		1		2
22		1		1
21				
20				
TOTAL		67	TOTAL 63	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SEVENTH AVENUE
EATON ST TO EAST CLIFF DR**

OCTOBER 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Seventh Avenue from Eaton Street to East Cliff Drive (Speed Data collected at 308 7th Avenue)

PREVAILING SPEED DATA:

The existing speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	30 mph	32 mph
Pace Speed	23-33 mph	23-33 mph
Average Speed	26.3 mph	28.2 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 MPH and 32 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are a prima-facie residential district, bike lanes, pedestrians, major arterial with regional access to beach and harbor, numerous driveways and limited sight distance for vehicles entering the roadway due to parking along the road. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route:	7th Avenue
From:	East Cliff Dr
To:	Eaton St
Direction:	Northbound
Weather:	Sunny
Posted Speed:	25
Begin time:	10:00 AM
End time:	10:30 AM

<u>MPH</u>	<u># of Vehicles</u>
0-10	1
10-20	1
20-30	1
30-40	1
40-50	1
50-60	1
60-70	1
70-80	1
80-90	1
90-100	1
100-110	1
110-120	1
120-130	1
130-140	1
140-150	1
150-160	1
160-170	1
170-180	1
180-190	1
190-200	1
200-210	1
210-220	1
220-230	1
230-240	1
240-250	1
250-260	1
260-270	1
270-280	1
280-290	1
290-300	1
300-310	1
310-320	1
320-330	1
330-340	1
340-350	1
350-360	1
360-370	1
370-380	1
380-390	1
390-400	1
400-410	1
410-420	1
420-430	1
430-440	1
440-450	1
450-460	1
460-470	1
470-480	1
480-490	1
490-500	1
500-510	1
510-520	1
520-530	1
530-540	1
540-550	1
550-560	1
560-570	1
570-580	1
580-590	1
590-600	1
600-610	1
610-620	1
620-630	1
630-640	1
640-650	1
650-660	1
660-670	1
670-680	1
680-690	1
690-700	1
700-710	1
710-720	1
720-730	1
730-740	1
740-750	1
750-760	1
760-770	1
770-780	1
780-790	1
790-800	1
800-810	1
810-820	1
820-830	1
830-840	1
840-850	1
850-860	1
860-870	1
870-880	1
880-890	1
890-900	1
900-910	1
910-920	1
920-930	1
930-940	1
940-950	1
950-960	1
960-970	1
970-980	1
980-990	1
990-1000	1

Percentage

From:	East Cliff Dr	40	0		100.0%
To:	Eaton St	39	0		100.0%
Direction:	Northbound	38	0		100.0%
Weather:	Sunny	37	0		100.0%
Posted Speed:	25	36	0		100.0%
Begin time:	10:00 AM	35	0		100.0%
End time:	10:30 AM	34	1	◆	100.0%
		33	1	◆	98.7%
		32	4	◆◆◆◆	97.3%
		31	3	◆◆◆	92.0%
		30	5	◆◆◆◆◆	88.0%
		29	4	◆◆◆◆	81.3%
		28	3	◆◆◆	76.0%
		27	9	◆◆◆◆◆◆◆◆◆	72.0%
		26	7	◆◆◆◆◆◆◆	60.0%
CRITICAL SPEED	30	25	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	50.7%
AVERAGE SPEED	26.31	24	11	◆◆◆◆◆◆◆◆◆◆◆◆	30.7%
MEDIAN SPEED	25.0	23	8	◆◆◆◆◆◆◆◆	16.0%
STANDARD DEVIATION	3.00	22	3	◆◆◆	5.3%
PACE RANGE	23 - 33	21	1	◆	1.3%
PERCENTAGE IN PACE	92.0%	20	0		0.0%
TOTAL # OF AUTOS	75				

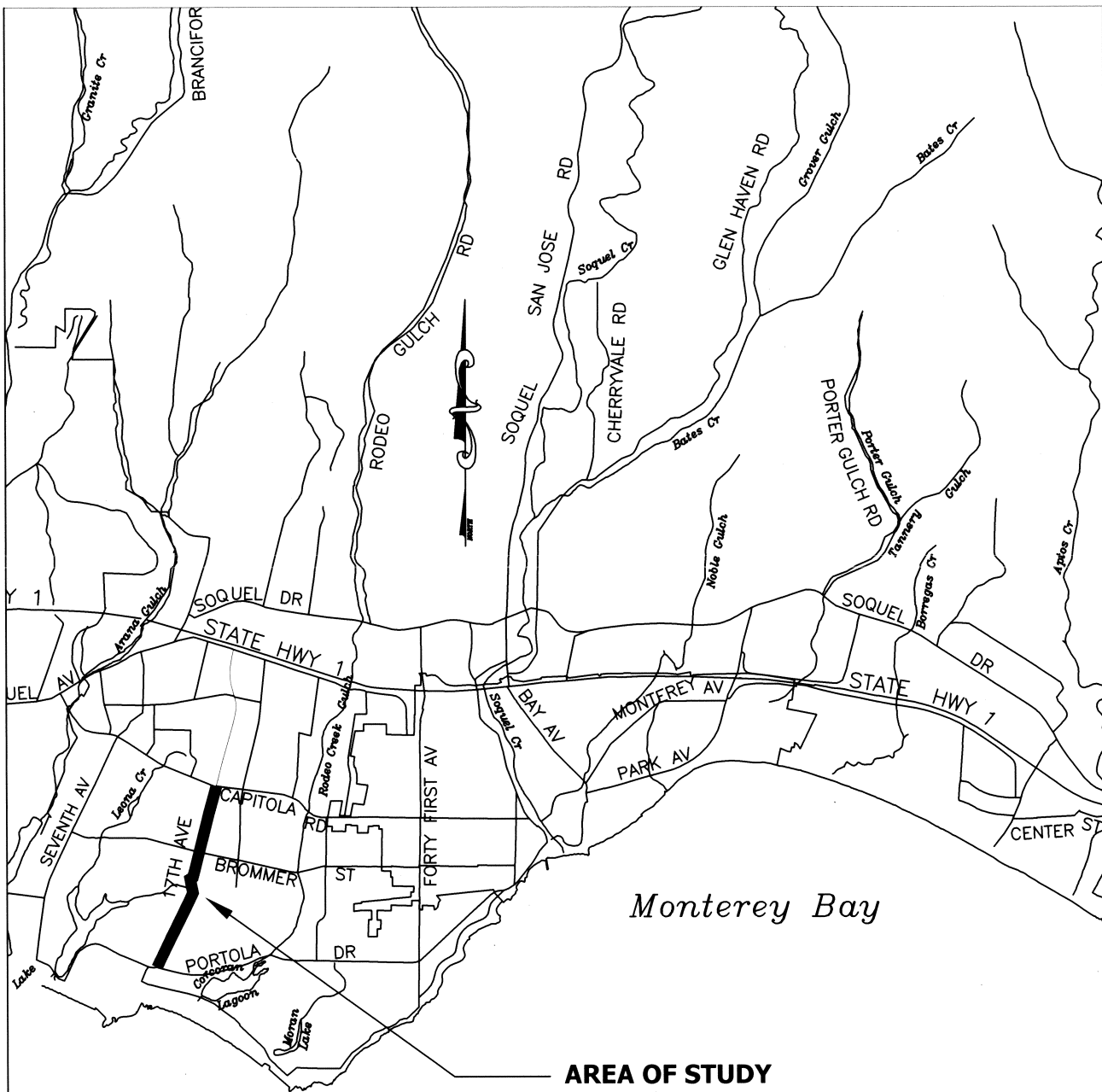
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	7th Avenue			
From:	Eaton St	40	0	100.0%
To:	East Cliff Dr	39	1 ♦	100.0%
Direction:	Southbound	38	0	98.4%
Weather:	Sunny	37	0	98.4%
Posted Speed:	25	36	1 ♦	98.4%
Begin time:	10:00 AM	35	1 ♦	96.8%
End time:	10:30 AM	34	3 ♦♦♦	95.2%
		33	1 ♦	90.5%
		32	3 ♦♦♦	88.9%
		31	5 ♦♦♦♦♦	84.1%
		30	4 ♦♦♦♦	76.2%
		29	5 ♦♦♦♦♦	69.8%
		28	13 ♦♦♦♦♦♦♦♦♦♦♦♦♦	61.9%
		27	6 ♦♦♦♦♦♦	41.3%
		26	9 ♦♦♦♦♦♦♦♦♦	31.7%
		25	1 ♦	17.5%
CRITICAL SPEED	32	24	6 ♦♦♦♦♦♦	15.9%
AVERAGE SPEED	28.22	23	2 ♦♦	6.3%
MEDIAN SPEED	28.0	22	1 ♦	3.2%
STANDARD DEVIATION	3.54	21	0	1.6%
PACE RANGE	23 - 33	20	1 ♦	1.6%
PERCENTAGE IN PACE	85.7%			
TOTAL # OF AUTOS	63			

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION 358 TH EATON - E CLIFF BY GJM
ROAD NO 2402 DATE 10/16/14 DAY TH BEGIN 10:00 END 10:30
POSTED SPEED 25 WEATHER CLEAR
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	→ NORTH EATON		→ S CLIFF	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39			/	1
38				
37				
36			/	1
35			/	1
34	/	1	///	3
33	/	1	/	1
32	////	4	///	3
31	///	3	///	5
30	////	5	///	4
29	///	4	///	5
28	///	3	///	13
27	////////	9	///	6
26	////	7	///	9
25	////////	15	/	1
24	////////	11	///	6
23	////////	8	///	2
22	///	3	/	1
21	/	1		
20-			/	1
TOTAL		75	TOTAL 63	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SEVENTEENTH AVENUE
PORTOLA DRIVE TO CAPITOLA ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Seventeenth Avenue from Portola Drive to Capitola Road. (Speed Data collected at 1412 17th Avenue)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	33 mph	37 mph
Pace Speed	23-33 mph	28-38 mph
Average Speed	28.2 mph	31.5 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH and 37 MPH depending upon the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima-facie residential district, a route to and from area schools, high volume of pedestrian and bicycle traffic, numerous driveways, and pedestrian and bicycle access route to adjacent schools. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	17th Avenue	40	0		100.0%
From:	Capitola Rd	39	1	◆	100.0%
To:	Portola Dr	38	0		98.2%
Direction:	Northbound	37	1	◆	98.2%
Weather:	Sunny	36	0		96.5%
Posted Speed:	30	35	1	◆	96.5%
Begin time:	1:55 PM	34	5	◆◆◆◆◆	94.7%
End time:	2:30 PM	33	1	◆	86.0%
		32	2	◆◆	84.2%
		31	4	◆◆◆◆	80.7%
		30	6	◆◆◆◆◆◆	73.7%
		29	4	◆◆◆◆	63.2%
		28	5	◆◆◆◆◆	56.1%
		27	6	◆◆◆◆◆◆	47.4%
		26	5	◆◆◆◆◆	36.8%
CRITICAL SPEED	33	25	6	◆◆◆◆◆◆	28.1%
AVERAGE SPEED	28.25	24	3	◆◆◆	17.5%
MEDIAN SPEED	28.0	23	6	◆◆◆◆◆◆	12.3%
STANDARD DEVIATION	3.99	22	0		1.8%
PACE RANGE	23 - 33	21	0		1.8%
PERCENTAGE IN PACE	82.5%	20	1	◆	1.8%
TOTAL # OF AUTOS	57				

RADAR SPEED SURVEY

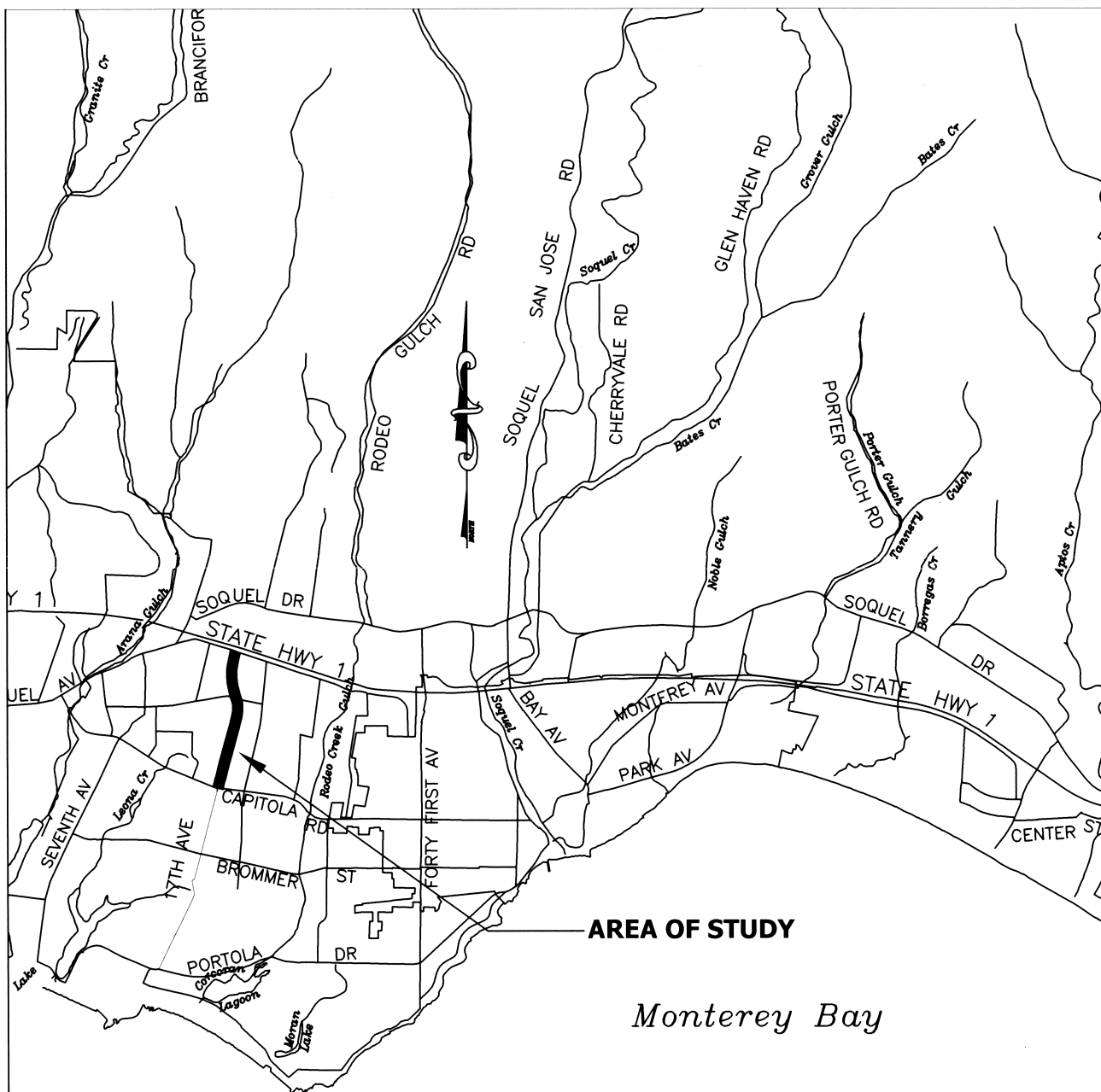
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	17th Avenue	40	0		100.0%
From:	Portola Dr	39	0		100.0%
To:	Capitola Rd	38	2	♦♦	100.0%
Direction:	Southbound	37	6	♦♦♦♦♦♦	96.2%
Weather:	Sunny	36	0		84.9%
Posted Speed:	30	35	5	♦♦♦♦♦	84.9%
Begin time:	1:55 PM	34	3	♦♦♦	75.5%
End time:	2:30 PM	33	3	♦♦♦	69.8%
		32	6	♦♦♦♦♦♦	64.2%
		31	5	♦♦♦♦♦	52.8%
		30	7	♦♦♦♦♦♦♦	43.4%
		29	5	♦♦♦♦♦	30.2%
		28	3	♦♦♦	20.8%
		27	5	♦♦♦♦♦	15.1%
		26	1	♦	5.7%
		25	2	♦♦	3.8%
CRITICAL SPEED	37	24	0		0.0%
AVERAGE SPEED	31.53	23	0		0.0%
MEDIAN SPEED	31.0	22	0		0.0%
STANDARD DEVIATION	3.55	21	0		0.0%
PACE RANGE	28 - 38	20	0		0.0%
PERCENTAGE IN PACE	81.1%				
TOTAL # OF AUTOS	53				

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION 1400 17TH PORTOLA - CAPITOLA BY GM
ROAD NO 2403 DATE 10/16/14 DAY TH BEGIN 1:55 END 2:30
POSTED SPEED 30 WEATHER CLEAR
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION CAPITOLA → NORTH	TOTAL OF EACH SPEED	DIRECTION ← PORTOLA SOUTH	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39	1	1		
38			//	2
37	1	1	// // //	6
36				
35	1	1	// // //	5
34	// // //	5	// //	3
33	1	1	//	3
32	//	2	// // //	6
31	// //	4	// // //	5
30	// // //	6	// // // //	7
29	// //	4	// // //	5
28	// // //	5	//	3
27	// // // //	6	// // //	5
26	// // //	5	1	1
25	// // // //	6		
24	//	3		
23	// // // //	6		
22			//	2
21				
20-	1	1		
TOTAL		57	TOTAL 53	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SEVENTEENTH AVENUE
CAPITOLA ROAD TO SOQUEL AVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Seventeenth Avenue from Capitola Road to Soquel Avenue. (Speed Data collected at Cozy Court)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 MPH and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	34 mph	35 mph
Pace Speed	25-35 mph	26-36 mph
Average Speed	30.8 mph	30.6 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH and 35 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	17th Avenue			
From:	Capitola Rd	45	0	100.0%
To:	Soquel Ave	44	0	100.0%
Direction:	Northbound	43	0	100.0%
Weather:	Sunny	42	0	100.0%
Posted Speed:	30	41	0	100.0%
Begin time:	2:39 PM	40	2 ♦♦	100.0%
End time:	3:04 PM	39	0	96.7%
		38	1 ♦	96.7%
		37	1 ♦	95.0%
		36	1 ♦	93.3%
		35	1 ♦	91.7%
		34	5 ♦♦♦♦♦	90.0%
		33	4 ♦♦♦♦	81.7%
		32	8 ♦♦♦♦♦♦♦♦	75.0%
		31	9 ♦♦♦♦♦♦♦♦♦	61.7%
		30	8 ♦♦♦♦♦♦♦♦	46.7%
CRITICAL SPEED	34	29	3 ♦♦♦	33.3%
AVERAGE SPEED	30.78	28	7 ♦♦♦♦♦♦♦	28.3%
MEDIAN SPEED	31.0	27	4 ♦♦♦♦	16.7%
STANDARD DEVIATION	3.41	26	3 ♦♦♦	10.0%
PACE RANGE	25 - 35	25	3 ♦♦♦	5.0%
PERCENTAGE IN PACE	90.0%			
TOTAL # OF AUTOS	60			

RADAR SPEED SURVEY

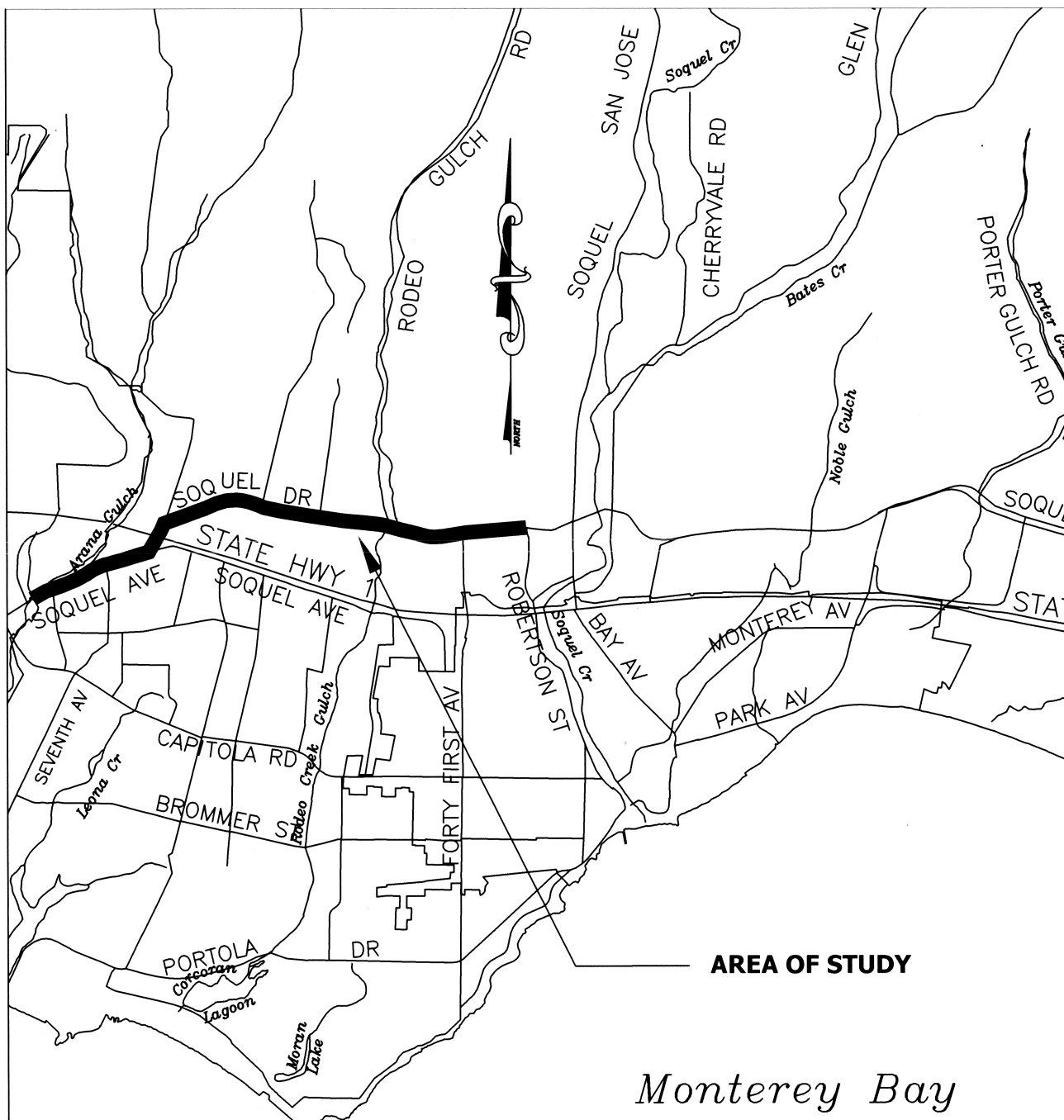
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	17th Avenue				
From:	Soquel Ave	45	0		100.0%
To:	Capitola Rd	44	0		100.0%
Direction:	Southbound	43	0		100.0%
Weather:	Sunny	42	1	◆	100.0%
Posted Speed:	30	41	0		98.5%
Begin time:	2:39 PM	40	0		98.5%
End time:	3:04 PM	39	0		98.5%
		38	0		98.5%
		37	2	◆◆	98.5%
		36	3	◆◆◆	95.5%
		35	6	◆◆◆◆◆◆	91.0%
		34	2	◆◆	82.1%
		33	3	◆◆◆	79.1%
		32	8	◆◆◆◆◆◆◆◆	74.6%
		31	6	◆◆◆◆◆◆	62.7%
CRITICAL SPEED	35	30	10	◆◆◆◆◆◆◆◆◆◆	53.7%
AVERAGE SPEED	30.55	29	5	◆◆◆◆◆	38.8%
MEDIAN SPEED	30.0	28	10	◆◆◆◆◆◆◆◆◆◆	31.3%
STANDARD DEVIATION	3.66	27	2	◆◆	16.4%
PACE RANGE	26 - 36	26	4	◆◆◆◆	13.4%
PERCENTAGE IN PACE	83.6%	25	4	◆◆◆◆	7.5%
TOTAL # OF AUTOS	67	24	0		1.5%
		23	0		1.5%
		22	0		1.5%
		21	1	◆	1.5%
		20	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION 1950 17TH CAPITOLA - SOQUEL BY GJM
ROAD NO 2403 DATE 10/16/14 DAY TH BEGIN 2:39 END 3:04
POSTED SPEED 30 WEATHER SUNNY
NUMBER OF LANES 2 GRADE FLAT CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION → SOQUEL NORTH	TOTAL OF EACH SPEED	DIRECTION CAPITOLA ← SOUTH	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42			/	1
41				
40	//	2		
39				
38	/	1		
37	/	1	//	2
36	/	1	///	3
35	/	1	////	6
34	////	5	////	2
33	////	4	////	3
32	////	8	////	8
31	////	9	////	6
30	////	8	////	10
29	///	3	///	5
28	///	7	///	10
27	///	4	///	2
26	///	3	///	4
25	///	3	///	4
24				
23				
22				
21			/	1
20-				
TOTAL		60	TOTAL 67	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL AVENUE / SOQUEL DRIVE
SANTA CRUZ CITY LIMITS TO ROBERTSON STREET**

OCTOBER 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Avenue/Soquel Drive between Santa Cruz City Limits and Robertson Street (Speed Data collected at 2585 Soquel Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	38 mph	38 mph
Pace Speed	27-37 mph	30-40 mph
Average Speed	33.0 mph	33.4 mph

ANALYSIS:

The prevailing 85th percentile speed is 38 MPH in both directions. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive	45	0		100.0%
From:	Robertson Street	44	0		100.0%
To:	City of Santa Cruz	43	0		100.0%
Direction:	Westbound	42	3	◆◆◆	100.0%
Weather:	Sunny	41	0		94.5%
Posted Speed:	35	40	1	◆	94.5%
Begin time:	10:13 AM	39	3	◆◆◆	92.7%
End time:	10:49 AM	38	3	◆◆◆	87.3%
		37	1	◆	81.8%
		36	3	◆◆◆	80.0%
		35	5	◆◆◆◆◆	74.5%
		34	1	◆	65.5%
		33	3	◆◆◆	63.6%
		32	8	◆◆◆◆◆◆◆◆	58.2%
		31	9	◆◆◆◆◆◆◆◆◆	43.6%
CRITICAL SPEED	38	30	4	◆◆◆◆	27.3%
AVERAGE SPEED	32.95	29	4	◆◆◆◆	20.0%
MEDIAN SPEED	32.0	28	3	◆◆◆	12.7%
STANDARD DEVIATION	4.12	27	3	◆◆◆	7.3%
PACE RANGE	27 - 37	26	1	◆	1.8%
PERCENTAGE IN PACE	78.2%	25	0		0.0%
TOTAL # OF AUTOS	55	24	0		0.0%
		23	0		0.0%
		22	0		0.0%
		21	0		0.0%
		20	0		0.0%

RADAR SPEED SURVEY

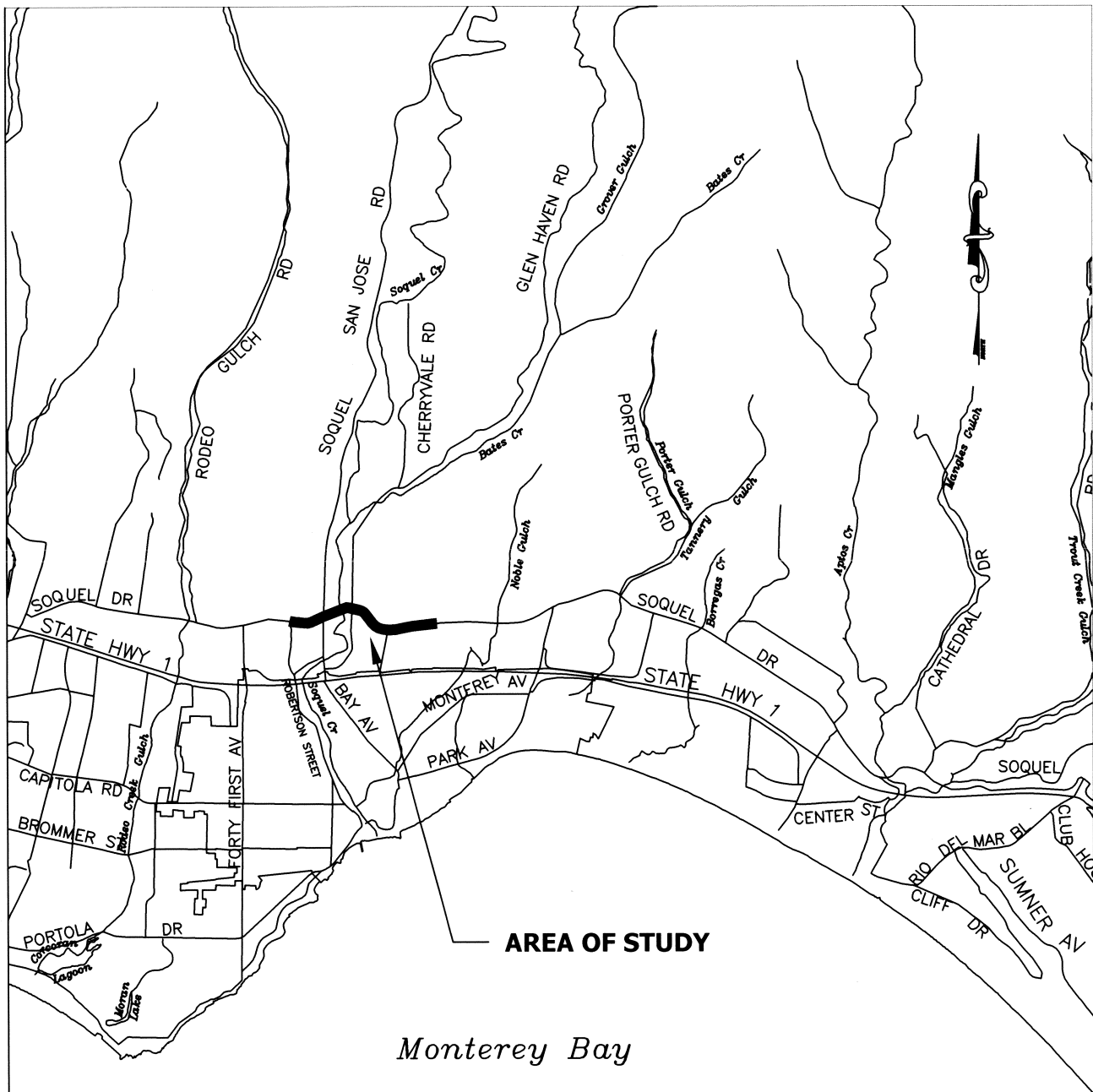
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	City of Santa Cruz	45	0		100.0%
To:	Robertson Street	44	0		100.0%
Direction:	Eastbound	43	1	◆	100.0%
Weather:	Sunny	42	0		98.1%
Posted Speed:	35	41	0		98.1%
Begin time:	10:13 AM	40	2	◆◆	98.1%
End time:	10:49 AM	39	2	◆◆	94.4%
		38	4	◆◆◆◆	90.7%
		37	2	◆◆	83.3%
		36	2	◆◆	79.6%
		35	5	◆◆◆◆◆	75.9%
		34	6	◆◆◆◆◆◆	66.7%
		33	8	◆◆◆◆◆◆◆◆	55.6%
		32	5	◆◆◆◆◆	40.7%
		31	7	◆◆◆◆◆◆◆	31.5%
		30	4	◆◆◆◆	18.5%
CRITICAL SPEED	38	29	1	◆	11.1%
AVERAGE SPEED	33.41	28	2	◆◆	9.3%
MEDIAN SPEED	33.0	27	2	◆◆	5.6%
STANDARD DEVIATION	3.62	26	1	◆	1.9%
PACE RANGE	30 - 40	25	0		0.0%
PERCENTAGE IN PACE	83.3%				
TOTAL # OF AUTOS	54				

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION 2585 Soquel Dr Robertson CITY OF SC BY GJM
ROAD NO 2416 DATE 10/24/19 DAY FRI BEGIN 10:13 END 10:49
POSTED SPEED 35 WEATHER SUNNY
NUMBER OF LANES 5 GRADE 3% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION → SOQUEL WESTBOUND	TOTAL OF EACH SPEED	DIRECTION ROBERTSON ← EAST BOUND	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43	/	1		
42			///	3
41				
40	//	2	/	1
39	//	2	///	3
38	////	4	///	3
37	//	2	/	1
36	//	2	///	3
35	////	5	////	5
34	////	6	/	1
33	////	8	///	3
32	////	5	////	8
31	////	7	////	9
30	///	4	///	4
29	/	1	///	4
28	//	2	///	3
27	/	2	///	3
26	/	1	/	1
25				
24				
23				
22				
21				
20-				
TOTAL		54	TOTAL 55	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
ROBERTSON STREET TO ROSEDALE AVENUE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive between Robertson Street and Rosedale Avenue (Speed Data collected at the corner of Center Street and Soquel Drive)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	28 mph	28 mph
Pace Speed	22-32 mph	22-32 mph
Average Speed	26.2 mph	26.4 mph

ANALYSIS:

The prevailing 85th percentile speed is 28 MPH for both directions of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

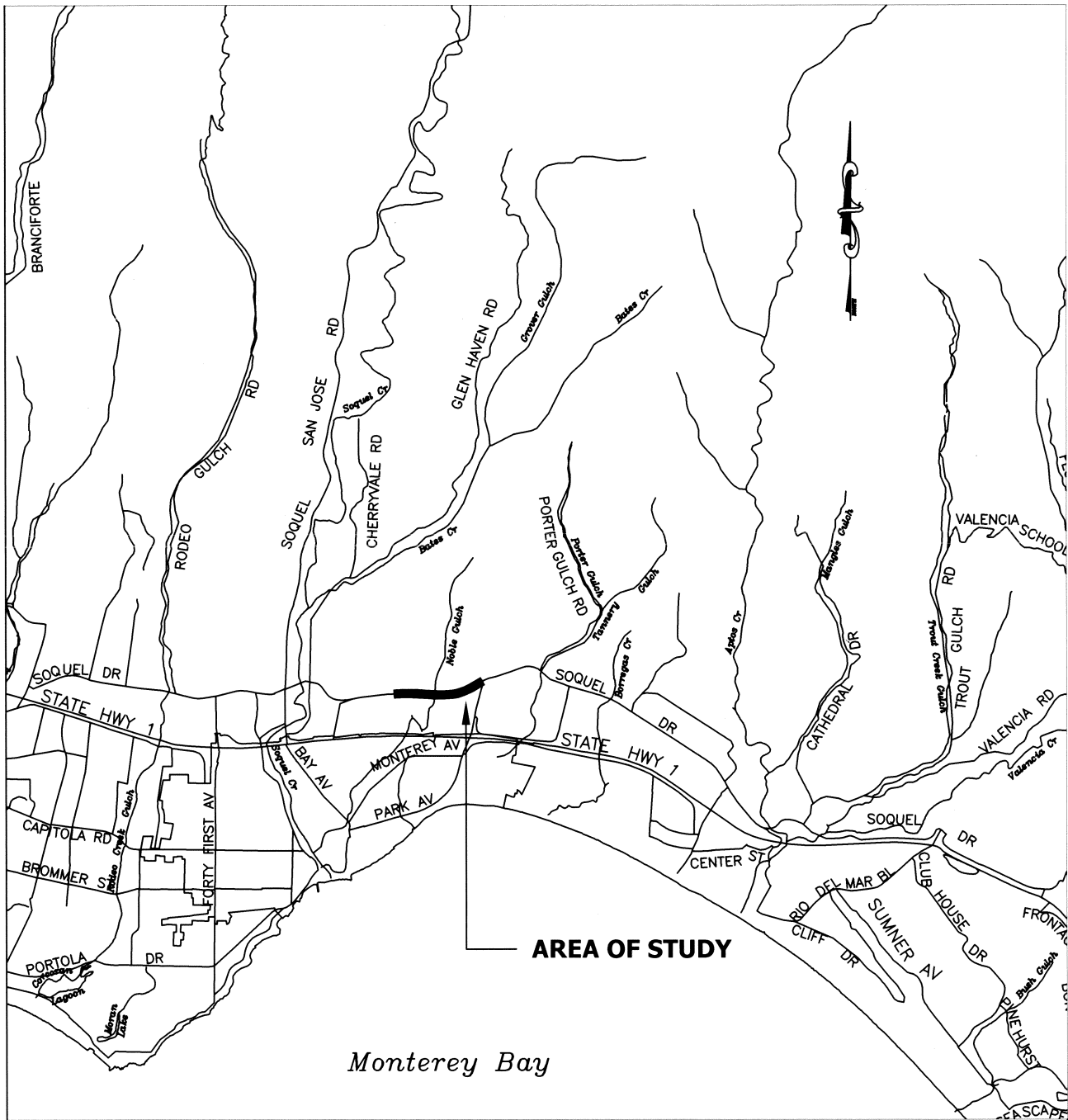
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Robertson Street	33	1	◆	100.0%
To:	Rosedale Avenue	32	1	◆	98.4%
Direction:	Eastbound	31	2	◆◆	96.8%
Weather:	Sunny	30	1	◆	93.7%
Posted Speed:	25	29	2	◆◆	92.1%
Begin time:	10:16 AM	28	3	◆◆◆	88.9%
End time:	10:34 AM	27	12	◆◆◆◆◆◆◆◆◆◆◆◆	84.1%
		26	21	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	65.1%
		25	16	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	31.7%
		24	3	◆◆◆	6.3%
		23	1	◆	1.6%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
CRITICAL SPEED	28	18			0.0%
AVERAGE SPEED	26.41	17			0.0%
MEDIAN SPEED	26.0	16			0.0%
STANDARD DEVIATION	1.88	15			0.0%
PACE RANGE	22 - 32				
PERCENTAGE IN PACE	96.8%				
TOTAL # OF AUTOS	63				

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Robertson Street	33	1	◆	100.0%
To:	Rosedale Avenue	32			98.3%
Direction:	Westbound	31	2	◆◆	98.3%
Weather:	Sunny	30	1	◆	94.8%
Posted Speed:	25	29	1	◆	93.1%
Begin time:	10:16 AM	28	5	◆◆◆◆◆	91.4%
End time:	10:34 AM	27	10	◆◆◆◆◆◆◆◆◆◆	82.8%
		26	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	65.5%
		25	15	◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	39.7%
		24	6	◆◆◆◆◆◆	13.8%
		23	1	◆	3.4%
		22	1	◆	1.7%
		21			0.0%
		20			0.0%
		19			0.0%
CRITICAL SPEED	28	18			0.0%
AVERAGE SPEED	26.17	17			0.0%
MEDIAN SPEED	26.0	16			0.0%
STANDARD DEVIATION	1.95	15			0.0%
PACE RANGE	22 - 32				
PERCENTAGE IN PACE	98.3%				
TOTAL # OF AUTOS	58				

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION <u>SOQUEL (ROSEDALE - ROBERTSON) CENTER LANE</u>		BY <u>JGL</u>	
ROAD NO <u> </u>	DATE <u>9/24/15</u>	DAY <u>THUR</u>	BEGIN <u>1016</u> END <u>1034 AM</u>
POSTED SPEED <u>25</u>		WEATHER <u>SUNNY</u>	
NUMBER OF LANES <u>2</u>		GRADE <u> </u>	CALIBRATED <u>✓</u>
NUMBER OF VEHICLES			
MPH	DIRECTION <i>W ← Rose Dale</i>	TOTAL OF EACH SPEED	DIRECTION <i>Robertson ← E</i>
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			
35			
34			
33		1	
32			
31		2	
30		1	
29		1	
28	 	5	
27	 	10	
26	 	15	
25	 	15	
24	 	6	
23		1	
22		1	
21			
20			
TOTAL		58	TOTAL 83



AREA OF STUDY

Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
ROSEDALE AVENUE TO PARK AVENUE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive from Rosedale Avenue to Park Avenue (speed data collected east of Mapplethorpe Lane).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	37 mph	38 mph
Pace Speed	30-40 mph	30-40 mph
Average Speed	33.58 mph	34.69 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 MPH and 38 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Soquel Drive
 From: Rosedale Av
 To: Park Av
 Direction: Eastbound
 Weather: Sunny
 Posted Speed: 35
 Begin time: 9:30 AM
 End time: 9:59 AM

CRITICAL SPEED
 AVERAGE SPEED
 MEDIAN SPEED
 STANDARD DEVIATION
 PACE RANGE
 PERCENTAGE IN PACE
 TOTAL # OF AUTOS

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
		45		100.0%
		44	1	100.0%
		43		98.7%
		42		98.7%
		41		98.7%
		40	2	98.7%
		39	4	96.2%
		38	3	91.0%
		37	6	87.2%
		36	3	79.5%
		35	5	75.6%
		34	9	69.2%
		33	13	57.7%
		32	11	41.0%
		31	11	26.9%
		30	5	12.8%
		29	3	6.4%
		28	1	2.6%
		27	1	1.3%
		26		0.0%
		25		0.0%
		24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%
	37			
	33.58			
	33.0			
	3.17			
	30 - 40			
	89.7%			
	78			

RADAR SPEED SURVEY

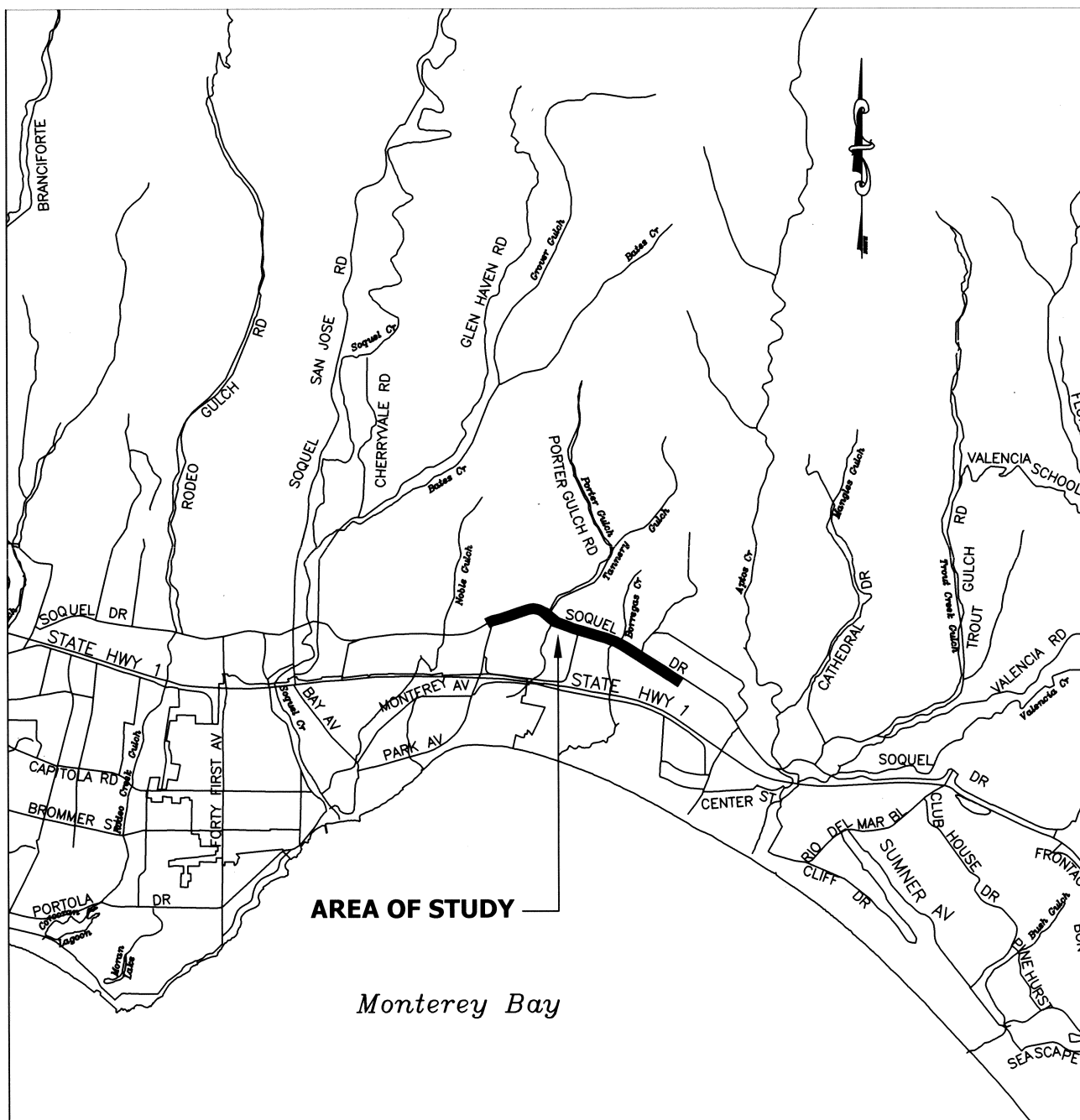
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rosedale Av	45	1	◆	100.0%
To:	Park Avenue	44			98.8%
Direction:	Westbound	43	1	◆	98.8%
Weather:	Sunny	42			97.5%
Posted Speed:	35	41	4	◆◆◆◆	97.5%
Begin time:	9:30 AM	40	2	◆◆	92.6%
End time:	9:59 AM	39	3	◆◆◆	90.1%
		38	3	◆◆◆	86.4%
		37	9	◆◆◆◆◆◆◆◆	82.7%
		36	10	◆◆◆◆◆◆◆◆◆◆	71.6%
		35	8	◆◆◆◆◆◆◆◆	59.3%
		34	10	◆◆◆◆◆◆◆◆◆◆	49.4%
		33	6	◆◆◆◆◆◆	37.0%
		32	7	◆◆◆◆◆◆◆	29.6%
		31	7	◆◆◆◆◆◆◆	21.0%
CRITICAL SPEED	38	30	6	◆◆◆◆◆◆	12.3%
AVERAGE SPEED	34.69	29	3	◆◆◆	4.9%
MEDIAN SPEED	35.0	28	1	◆	1.2%
STANDARD DEVIATION	3.51	27			0.0%
PACE RANGE	30 - 40	26			0.0%
PERCENTAGE IN PACE	85.2%	25			0.0%
TOTAL # OF AUTOS	81	24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION SOQUEL DR @ MARLETHORPE BY JGL
ROAD NO DATE 10/22/19 DAY WED BEGIN 9:30 END 9:54
POSTED SPEED 35 MPH WEATHER SUNNY
NUMBER OF LANES 4 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION → <u>WEST</u> ^{Rosedale} <u>S.C.</u> ^{TO}	TOTAL OF EACH SPEED	DIRECTION ← <u>EAST</u> ^{Park} <u>WAT</u> ^{TO}	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45		1		
44				1
43		1		
42				
41		4		
40		2		2
39		3		4
38		3		3
37	-	9	- 1	6
36	- -	10		3
35	-	8	-	5
34	- -	10	-	9
33	- 1	6	- -	13
32	-	7	- - 1	11
31	-	7	- - 1	11
30	- 1	6	-	5
29		3		3
28		1		1
27				1
26				
25				
24				
23				
22				
21				
20				
TOTAL		81	TOTAL 78	



Monterey Bay

**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
PARK AVENUE TO MAR VISTA DRIVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive from Park Avenue to Mar Vista Drive (speed data collected at Vienna Drive).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	40 mph	39 mph
Pace Speed	31-41 mph	31-41 mph
Average Speed	36.08 mph	35.56 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 MPH and 40 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

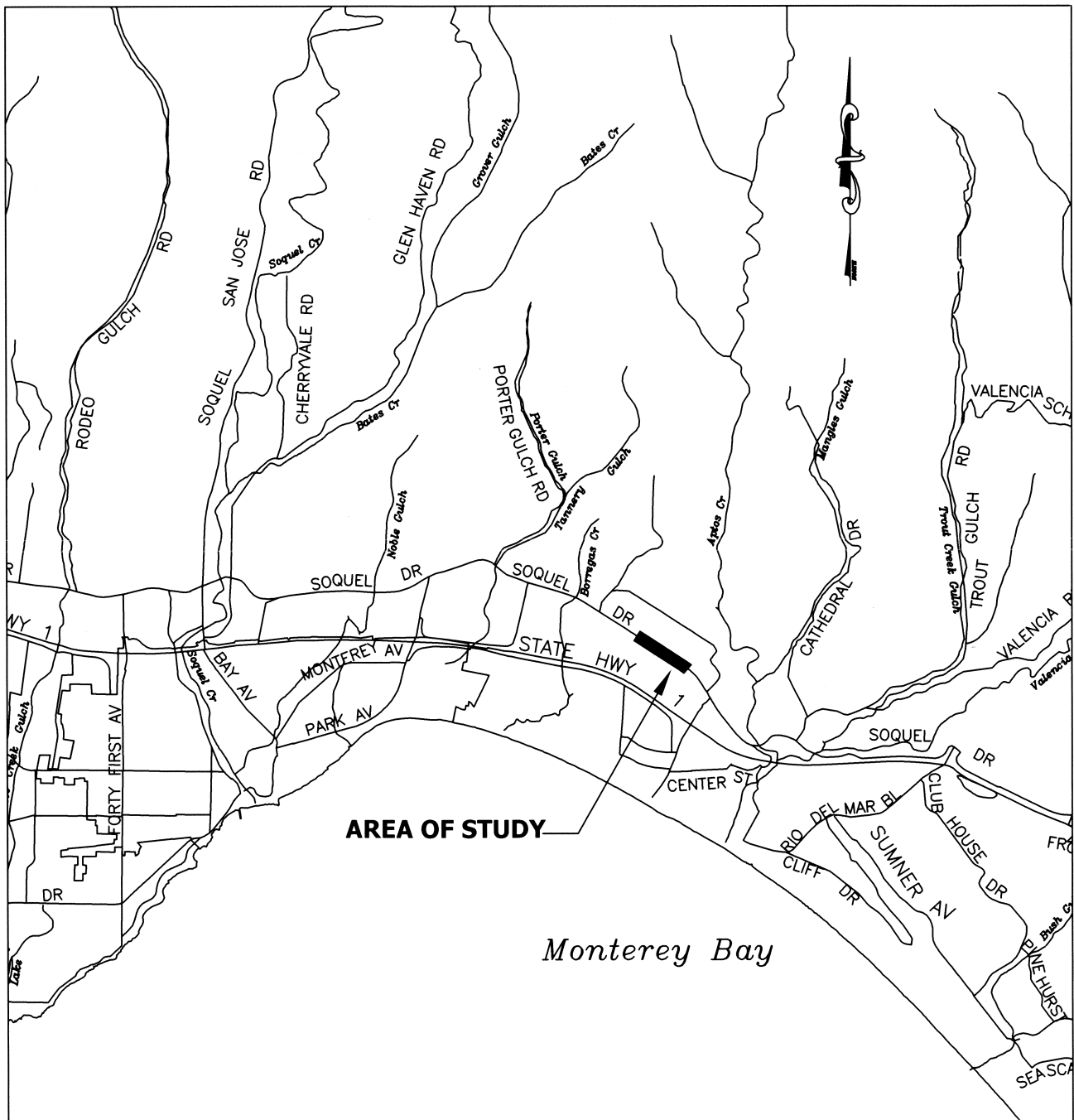
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel Drive			
From:	Park Avenue	45		100.0%
To:	Mar Vista Dr	44	1 ♦	100.0%
Direction:	Westbound	43	2 ♦♦	98.5%
Weather:	Sunny	42		95.5%
Posted Speed:	35	41		95.5%
Begin time:	1:37 PM	40	4 ♦♦♦♦	95.5%
End time:	1:52 PM	39	5 ♦♦♦♦♦	89.4%
		38	7 ♦♦♦♦♦♦♦	81.8%
		37	8 ♦♦♦♦♦♦♦♦	71.2%
		36	7 ♦♦♦♦♦♦♦	59.1%
		35	7 ♦♦♦♦♦♦♦	48.5%
		34	6 ♦♦♦♦♦♦	37.9%
		33	6 ♦♦♦♦♦♦	28.8%
		32	6 ♦♦♦♦♦♦	19.7%
		31	3 ♦♦♦	10.6%
		30	2 ♦♦	6.1%
CRITICAL SPEED	39	29		3.0%
AVERAGE SPEED	35.56	28	2 ♦♦	3.0%
MEDIAN SPEED	36.0	27		0.0%
STANDARD DEVIATION	3.40	26		0.0%
PACE RANGE	31 - 41	25		0.0%
PERCENTAGE IN PACE	89.4%	24		0.0%
TOTAL # OF AUTOS	66	23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive	45	1	◆	100.0%
From:	Park Avenue	44			98.7%
To:	Mar Vista Dr	43	3	◆◆◆	98.7%
Direction:	Eastbound	42	2	◆◆	94.8%
Weather:	Sunny	41	3	◆◆◆	92.2%
Posted Speed:	35	40	3	◆◆◆	88.3%
Begin time:	9:30 AM	39	6	◆◆◆◆◆◆	84.4%
End time:	9:59 AM	38	6	◆◆◆◆◆◆	76.6%
		37	12	◆◆◆◆◆◆◆◆◆◆◆◆	68.8%
		36	8	◆◆◆◆◆◆◆◆	53.2%
		35	6	◆◆◆◆◆◆	42.9%
		34	7	◆◆◆◆◆◆◆	35.1%
		33	6	◆◆◆◆◆◆	26.0%
		32	7	◆◆◆◆◆◆◆	18.2%
		31	4	◆◆◆◆	9.1%
		30	2	◆◆	3.9%
CRITICAL SPEED	40	29	1	◆	1.3%
AVERAGE SPEED	36.08	28			0.0%
MEDIAN SPEED	36.0	27			0.0%
STANDARD DEVIATION	3.50	26			0.0%
PACE RANGE	31 - 41	25			0.0%
PERCENTAGE IN PACE	84.4%	24			0.0%
TOTAL # OF AUTOS	77	23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION <u>5000 ft @ VIENNA</u>		BY <u>JGL</u>	
ROAD NO _____	DATE <u>10/22/14</u>	DAY <u>WED</u>	BEGIN <u>1:37</u> END <u>1:52</u>
POSTED SPEED <u>35</u>		WEATHER <u>SUNNY</u>	
NUMBER OF LANES <u>4</u>		GRADE <u>0</u>	CALIBRATED <u>✓</u>
NUMBER OF VEHICLES			
MPH	DIRECTION <u>Mar Vista</u> <u>→ (EAST)</u>	TOTAL OF EACH SPEED	DIRECTION <u>Park</u> <u>(WEST) ←</u>
60			
59			
58			
57			
56			
55			
54			
53			
52			
51			
50			
49			
48			
47			
46			
45		1	
44			1
43		3	
42		2	
41		3	
40		3	
39	-	6	
38	-	6	-
37	- -	12	-
36	-	8	-
35	-	6	-
34	-	7	-
33	-	6	-
32	-	7	-
31		4	
30		2	
29		1	
28			
27			
26			
25			
24			
23			
22			
21			
20			
TOTAL		<u>77</u>	TOTAL
			<u>66</u>



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
MAR VISTA DRIVE TO WEST LEDYARD WAY**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive Mar Vista Drive to West Ledyard Way (speed data collected near Mar Vista Drive).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	40 mph	40 mph
Pace Speed	32-42 mph	32-42 mph
Average Speed	36.49 mph	36.49 mph

ANALYSIS:

The prevailing 85th percentile speeds is 40 MPH for both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, numerous driveways, and shoulder conditions with school age pedestrians in the roadway without sidewalks. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel Drive			
From:	Mar Vista Dr	45		100.0%
To:	West Ledyard Wy	44	1 ♦	100.0%
Direction:	Westbound	43	1 ♦	98.5%
Weather:	Sunny	42	3 ♦♦♦	97.1%
Posted Speed:	35	41	4 ♦♦♦♦	92.6%
Begin time:	1:55 PM	40	5 ♦♦♦♦♦	86.8%
End time:	2:05 PM	39	5 ♦♦♦♦♦	79.4%
		38	8 ♦♦♦♦♦♦♦♦	72.1%
		37	6 ♦♦♦♦♦♦	60.3%
		36	8 ♦♦♦♦♦♦♦♦	51.5%
		35	8 ♦♦♦♦♦♦♦♦	39.7%
		34	5 ♦♦♦♦♦	27.9%
		33	5 ♦♦♦♦♦	20.6%
		32	6 ♦♦♦♦♦♦	13.2%
		31	1 ♦	4.4%
		30	1 ♦	2.9%
CRITICAL SPEED	40	30	1 ♦	2.9%
AVERAGE SPEED	36.49	29		1.5%
MEDIAN SPEED	36.0	28		1.5%
STANDARD DEVIATION	3.41	27	1 ♦	1.5%
PACE RANGE	32 - 42	26		0.0%
PERCENTAGE IN PACE	88.2%	25		0.0%
TOTAL # OF AUTOS	68	24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

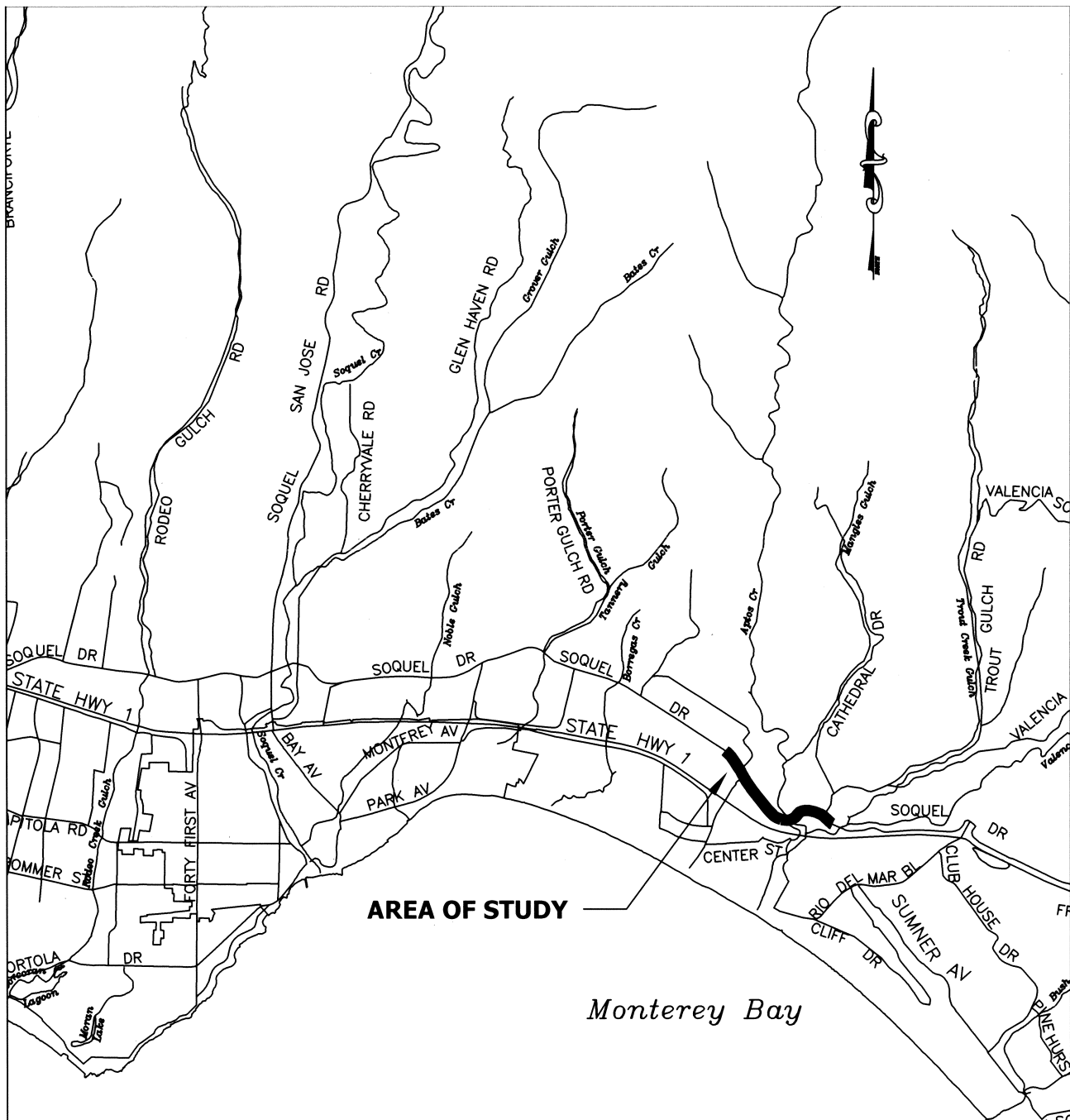
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive	45			100.0%
From:	Mar Vista Dr	44	1	◆	100.0%
To:	West Ledyard Wy	43	1	◆	98.6%
Direction:	Eastbound	42	2	◆◆	97.2%
Weather:	Sunny	41	4	◆◆◆◆	94.4%
Posted Speed:	35	40	7	◆◆◆◆◆◆◆	88.7%
Begin time:	1:55 PM	39	6	◆◆◆◆◆◆	78.9%
End time:	2:05 PM	38	6	◆◆◆◆◆◆	70.4%
		37	5	◆◆◆◆◆	62.0%
		36	10	◆◆◆◆◆◆◆◆◆◆	54.9%
		35	9	◆◆◆◆◆◆◆◆◆	40.8%
		34	6	◆◆◆◆◆◆	28.2%
		33	7	◆◆◆◆◆◆◆	19.7%
		32	4	◆◆◆◆	9.9%
		31	1	◆	4.2%
CRITICAL SPEED	40	30	2	◆◆	2.8%
AVERAGE SPEED	36.49	29			0.0%
MEDIAN SPEED	36.0	28			0.0%
STANDARD DEVIATION	3.21	27			0.0%
PACE RANGE	32 - 42	26			0.0%
PERCENTAGE IN PACE	90.1%	25			0.0%
TOTAL # OF AUTOS	71	24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SDGUEL @ MAR VISTA BY JGL
 ROAD NO _____ DATE 10/22/14 DAY WED BEGIN 1:55 END 2:05
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 4 GRADE _____ CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION → EAST WAT	TOTAL OF EACH SPEED	DIRECTION ← WEST S.C.	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44		1		1
43		1		1
42		2		3
41		4		4
40	-1	7		5
39	-1	6		5
38	-1	6	-1	6
37	-1	5	-1	6
36	-1 -1	10	-1	8
35	-1	9	-1	9
34	-1	6		5
33	-1	7		5
32		4	-1	6
31		1		1
30		2		1
29				
28				
27				1
26				
25				
24				
23				
22				
21				
20				
TOTAL		71	TOTAL 68	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
WEST LEDYARD WAY TO 0.3 MILES EAST OF APTOS STREET**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive from West Ledyard Way to 0.3 miles east of Aptos Street (speed data collected at Aptos Wharf Road).

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	31 mph	31 mph
Pace Speed	24-34 mph	23-33 mph
Average Speed	27.57 mph	28.51 mph

ANALYSIS:

The prevailing 85th percentile speeds is 31 MPH on both direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are shoulder conditions with pedestrians in the roadway without sidewalks, railroad over crossings with narrow width between abutments and all traffic must share the road at these points, prima facie business district and a narrow historic bridge. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

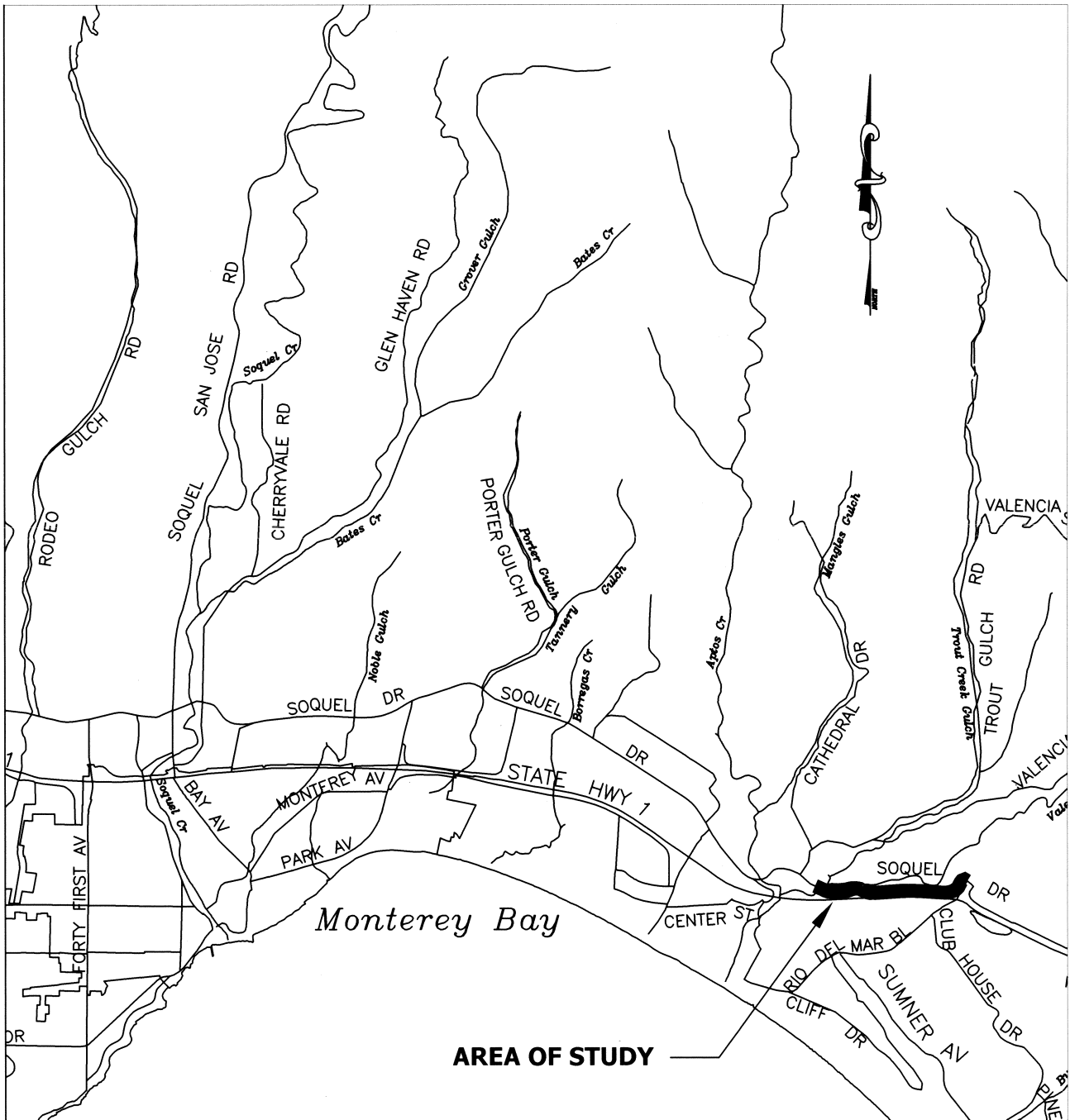
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel Drive			
From:	West Ledyard Wy	36	1 ♦	100.0%
To:	0.3 m east of Aptos St	35	1 ♦	98.6%
Direction:	Eastbound	34		97.2%
Weather:	Sunny	33	1 ♦	97.2%
Posted Speed:	25	32	1 ♦	95.8%
Begin time:	2:10 PM	31	7 ♦♦♦♦♦♦♦	94.4%
End time:	2:20 PM	30	6 ♦♦♦♦♦♦	84.7%
		29	4 ♦♦♦♦	76.4%
		28	10 ♦♦♦♦♦♦♦♦♦♦	70.8%
			14 ♦♦♦♦♦♦♦♦♦♦♦♦♦♦	56.9%
		26	10 ♦♦♦♦♦♦♦♦♦♦	37.5%
		25	11 ♦♦♦♦♦♦♦♦♦♦♦	23.6%
		24	5 ♦♦♦♦♦	8.3%
		23	1 ♦	1.4%
		22		0.0%
CRITICAL SPEED	31	21		0.0%
AVERAGE SPEED	27.57	20		0.0%
MEDIAN SPEED	27.0	19		0.0%
STANDARD DEVIATION	2.63	18		0.0%
PACE RANGE	24 - 34	17		0.0%
PERCENTAGE IN PACE	95.8%	16		0.0%
TOTAL # OF AUTOS	72	15		0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel Drive			
From:	West Ledyard Wy	36	1 ♦	100.0%
To:	0.3 m east of Aptos St	35	2 ♦♦	98.7%
Direction:	Westbound	34	2 ♦♦	96.1%
Weather:	Sunny	33	1 ♦	93.4%
Posted Speed:	25	32	4 ♦♦♦♦	92.1%
Begin time:	2:10 PM	31	9 ♦♦♦♦♦♦♦♦	86.8%
End time:	2:20 PM	30	12 ♦♦♦♦♦♦♦♦♦♦	75.0%
		29	7 ♦♦♦♦♦♦	59.2%
		28	6 ♦♦♦♦♦	50.0%
			12 ♦♦♦♦♦♦♦♦♦♦	42.1%
		26	7 ♦♦♦♦♦♦	26.3%
		25	7 ♦♦♦♦♦♦	17.1%
		24	3 ♦♦♦	7.9%
		23	3 ♦♦♦	3.9%
		22		0.0%
CRITICAL SPEED	31	21		0.0%
AVERAGE SPEED	28.51	20		0.0%
MEDIAN SPEED	28.5	19		0.0%
STANDARD DEVIATION	2.98	18		0.0%
PACE RANGE	23 - 33	17		0.0%
PERCENTAGE IN PACE	92.1%	16		0.0%
TOTAL # OF AUTOS	76	15		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION <u>SOQUEL @ APTOS WHARF</u>		BY <u>JGL</u>	
ROAD NO _____	DATE <u>10/22/14</u>	DAY <u>WED</u>	BEGIN <u>2:10</u> END <u>2:20</u>
POSTED SPEED <u>25</u>		WEATHER <u>SUNNY</u>	
NUMBER OF LANES <u>2</u>		GRADE <u>2%</u>	CALIBRATED <u>✓</u>
NUMBER OF VEHICLES			
MPH	DIRECTION → (W) TO S.C.	TOTAL OF EACH SPEED	DIRECTION ← (E) TO WHARF
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		1	1
35	1	2	1
34	1	2	
33		1	1
32	1	4	1
31	1-1	9	1-1
30	1-1-1	12	1-
29	1-1	7	1
28	1-1	6	1-1
27	1-1-1	12	1-1-1
26	1-1	7	1-1
25	1-1	7	1-1
24	1	3	1
23	1	3	1
22			
21			
20			
TOTAL		<u>76</u>	TOTAL <u>72</u>



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
0.3 MILES EAST OF APTOS STREET TO RIO DEL MAR BOULEVARD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive from 0.3 miles east of Aptos Street to Rio Del Mar Boulevard (speed data collected at mid-point).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	37 mph	40 mph
Pace Speed	30-40 mph	31-41 mph
Average Speed	34.24 mph	35.48 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 MPH and 40 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel Drive			
From:	0.3 m east of Aptos St	45		100.0%
To:	Rio Del Mar Blvd	44		100.0%
Direction:	Eastbound	43	1 ♦	100.0%
Weather:	Sunny	42		98.6%
Posted Speed:	35	41	1 ♦	98.6%
Begin time:	2:28 PM	40		97.1%
End time:	2:45 PM	39	1 ♦	97.1%
		38	4 ♦♦♦♦	95.7%
		37	8 ♦♦♦♦♦♦♦♦	90.0%
		36	12 ♦♦♦♦♦♦♦♦♦♦	78.6%
		35	9 ♦♦♦♦♦♦♦♦	61.4%
		34	7 ♦♦♦♦♦♦	48.6%
		33	4 ♦♦♦♦	38.6%
		32	9 ♦♦♦♦♦♦♦♦	32.9%
		31	6 ♦♦♦♦♦	20.0%
CRITICAL SPEED	37	30	5 ♦♦♦♦♦	11.4%
AVERAGE SPEED	34.24	29	1 ♦	4.3%
MEDIAN SPEED	35.0	28	2 ♦♦	2.9%
STANDARD DEVIATION	2.99	27		0.0%
PACE RANGE	30 - 40	26		0.0%
PERCENTAGE IN PACE	92.9%	25		0.0%
TOTAL # OF AUTOS	70	24		0.0%
		23		0.0%
		22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY

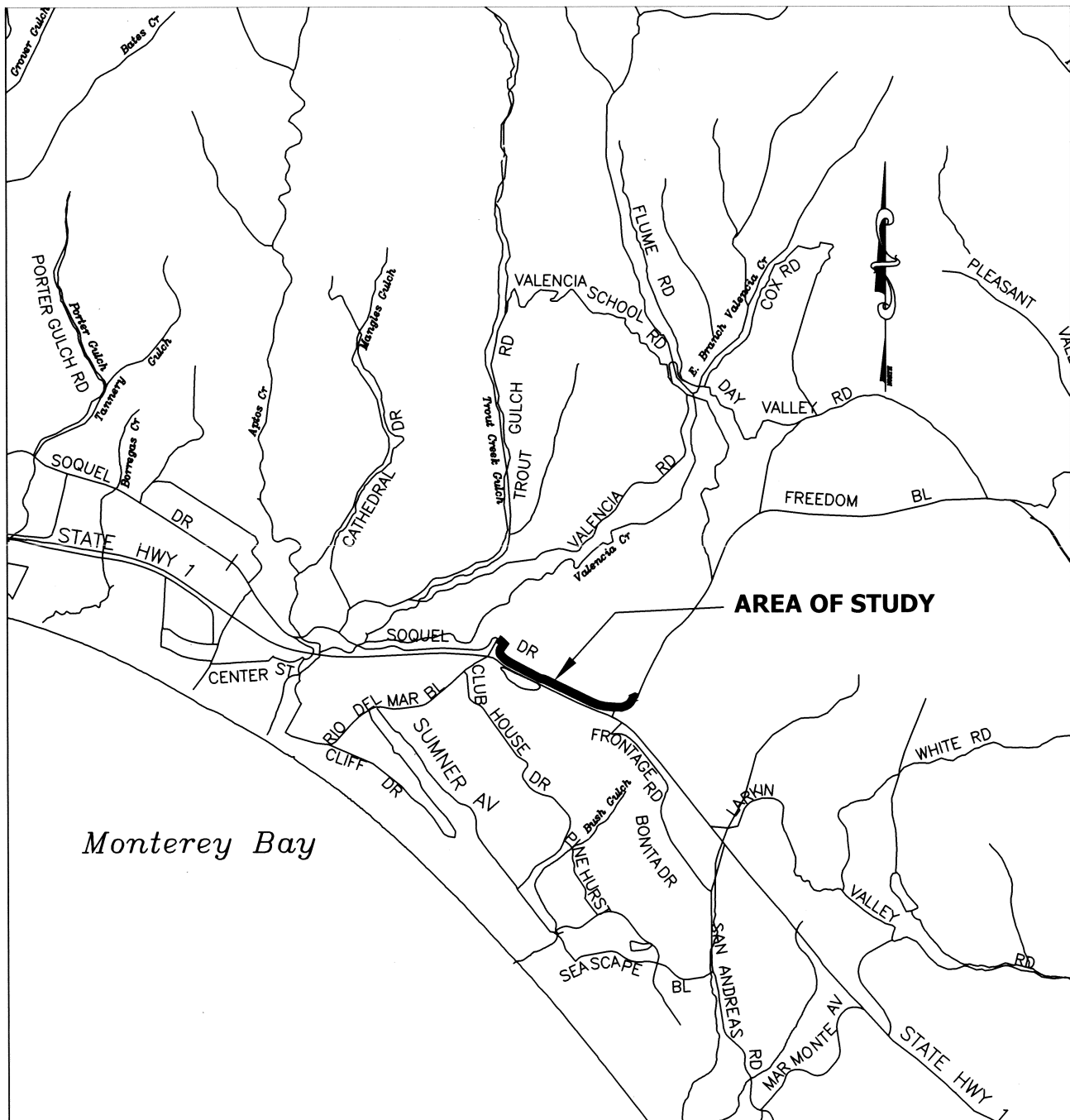
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	0.3 m east of Aptos St	45	1	◆	100.0%
To:	Rio Del Mar Blvd	44	1	◆	98.5%
Direction:	Westbound	43			97.0%
Weather:	Sunny	42			97.0%
Posted Speed:	35	41	2	◆◆	97.0%
Begin time:	2:28 PM	40	6	◆◆◆◆◆	93.9%
End time:	2:45 PM	39	5	◆◆◆◆◆	84.8%
		38	7	◆◆◆◆◆◆◆	77.3%
		37	3	◆◆◆	66.7%
		36	10	◆◆◆◆◆◆◆◆◆◆	62.1%
		35	6	◆◆◆◆◆◆	47.0%
		34	4	◆◆◆◆	37.9%
		33	5	◆◆◆◆◆	31.8%
		32	4	◆◆◆◆	24.2%
		31	4	◆◆◆◆	18.2%
CRITICAL SPEED	40	30	5	◆◆◆◆◆	12.1%
AVERAGE SPEED	35.48	29	2	◆◆	4.5%
MEDIAN SPEED	36.0	28	1	◆	1.5%
STANDARD DEVIATION	3.77	27			0.0%
PACE RANGE	31 - 41	26			0.0%
PERCENTAGE IN PACE	81.8%	25			0.0%
TOTAL # OF AUTOS	66	24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 40051 @ #9045 (MID B/W 170 & 113) BY JGL
 ROAD NO _____ DATE _____ DAY 12/12/14 BEGIN 2:28 END 2:45
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 0 CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION ← EAST	TOTAL OF EACH SPEED	DIRECTION → WEST	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				1
44				1
43		1		
42				
41		1		2
40			 - 1	6
39		1	 	5
38		4	 -	7
37	 -	8	 	3
36	 - -	12	 - -	10
35	 -	9	 - 1	6
34	 -	7		4
33		4	 	5
32	 -	9		4
31	 -	6		4
30	 	5	 -	5
29		1		2
28		2		1
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		70	TOTAL 66	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL DRIVE
RIO DEL MAR BOULEVARD TO FREEDOM BOULEVARD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel Drive from Rio Del Mar Boulevard to Freedom Boulevard (speed data collected at mid-point).

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	41 mph	42 mph
Pace Speed	32-42 mph	33-43 mph
Average Speed	36.80 mph	37.31 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH and 42 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a route to and from area schools, and shoulder conditions with pedestrians in the roadway without sidewalks. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

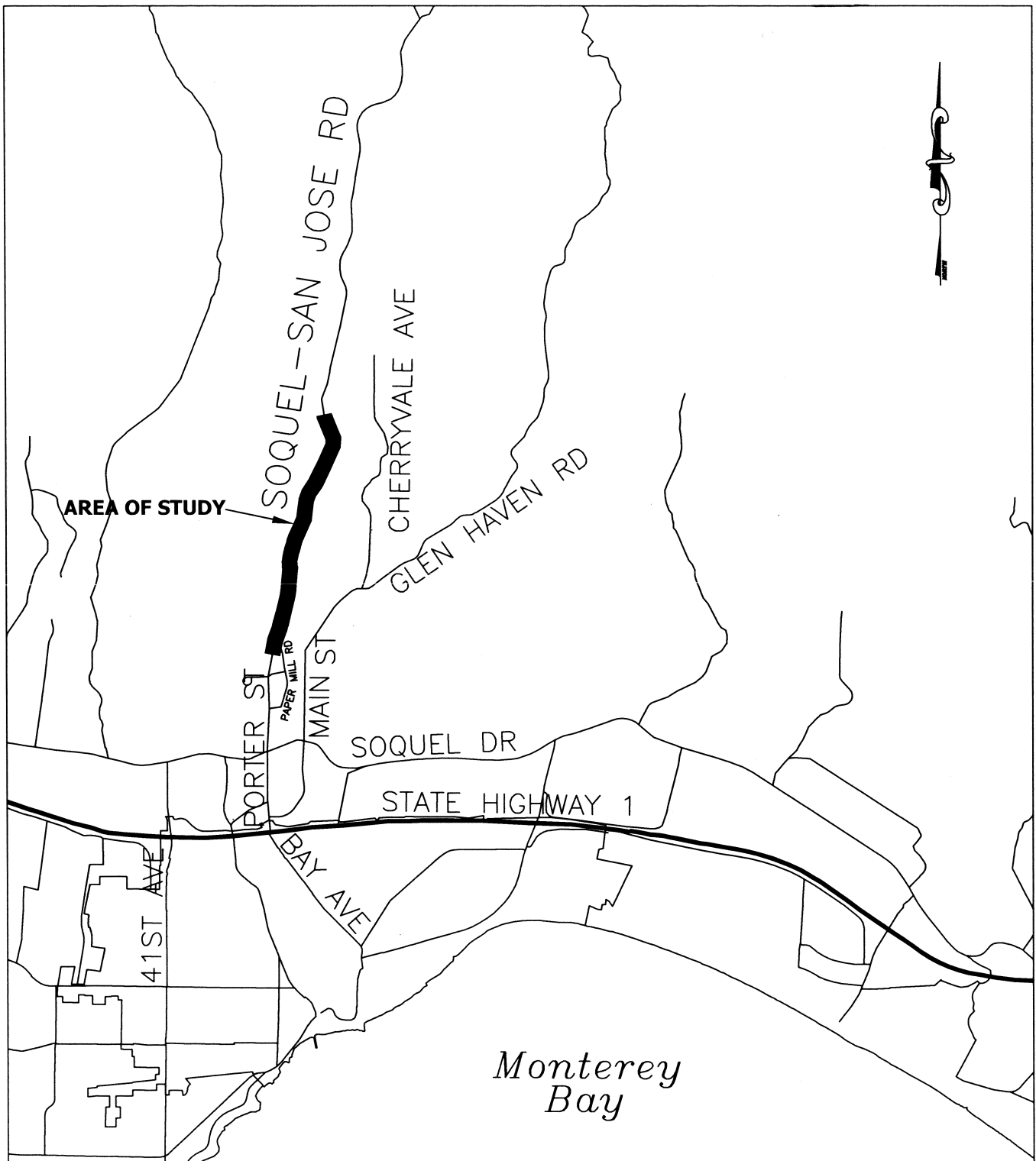
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rio Del Mar Blvd	45	1	◆	100.0%
To:	Freedom Blvd	44	3	◆◆◆	98.6%
Direction:	Westbound	43	3	◆◆◆	94.3%
Weather:	Sunny	42	6	◆◆◆◆◆◆	90.0%
Posted Speed:	35	41	6	◆◆◆◆◆◆	81.4%
Begin time:	1:59 PM	40	9	◆◆◆◆◆◆◆◆◆	72.9%
End time:	2:36 PM	39	9	◆◆◆◆◆◆◆◆◆	60.0%
		38	5	◆◆◆◆◆	47.1%
		37	2	◆◆	40.0%
		36	6	◆◆◆◆◆◆	37.1%
		35			28.6%
		34	6	◆◆◆◆◆◆	28.6%
		33	4	◆◆◆◆	20.0%
		32	5	◆◆◆◆◆	14.3%
		31	3	◆◆◆	7.1%
CRITICAL SPEED	42	30			2.9%
AVERAGE SPEED	37.71	29			2.9%
MEDIAN SPEED	39.0	28	2	◆◆	2.9%
STANDARD DEVIATION	4.12	27			0.0%
PACE RANGE	33 - 43	26			0.0%
PERCENTAGE IN PACE	75.7%	25			0.0%
TOTAL # OF AUTOS	70	24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Soquel Drive				
From:	Rio Del Mar Blvd	45	4	◆◆◆◆	100.0%
To:	Freedom Blvd	44	2	◆◆	94.9%
Direction:	Eastbound	43	1	◆	92.4%
Weather:	Sunny	42			91.1%
Posted Speed:	35	41	5	◆◆◆◆◆	91.1%
Begin time:	1:59 PM	40	3	◆◆◆	84.8%
End time:	2:36 PM	39	8	◆◆◆◆◆◆◆◆	81.0%
		38	8	◆◆◆◆◆◆◆◆	70.9%
		37	11	◆◆◆◆◆◆◆◆◆◆	60.8%
		36	9	◆◆◆◆◆◆◆◆	46.8%
		35	5	◆◆◆◆◆	35.4%
		34	10	◆◆◆◆◆◆◆◆◆◆	29.1%
		33	2	◆◆	16.5%
		32	5	◆◆◆◆◆	13.9%
		31	4	◆◆◆◆	7.6%
CRITICAL SPEED	41	30	1	◆	2.5%
AVERAGE SPEED	36.80	29	1	◆	1.3%
MEDIAN SPEED	37.0	28			0.0%
STANDARD DEVIATION	3.70	27			0.0%
PACE RANGE	32 - 42	26			0.0%
PERCENTAGE IN PACE	83.5%	25			0.0%
TOTAL # OF AUTOS	79	24			0.0%
		23			0.0%
		22			0.0%
		21			0.0%
		20			0.0%
		19			0.0%
		18			0.0%
		17			0.0%
		16			0.0%
		15			0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION <u>SOQUEL (R.O. DEL MAR - FREEDOM)</u>		BY <u>J61</u>		
ROAD NO _____	DATE <u>10/09/14</u> DAY <u>THUR</u>	BEGIN <u>1:59</u>	END <u>2:36</u>	
POSTED SPEED <u>35</u>	WEATHER <u>SUNNY</u>			
NUMBER OF LANES <u>2</u>	GRADE _____	CALIBRATED <u>✓</u>		
NUMBER OF VEHICLES				
MPH	DIRECTION <u>↓ (E)</u>	TOTAL OF EACH SPEED	DIRECTION <u>↑ (W)</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45	<u> </u>	<u>4</u>	<u> </u>	<u>1</u>
44	<u> </u>	<u>2</u>	<u> </u>	<u>3</u>
43	<u> </u>	<u>1</u>	<u> </u>	<u>3</u>
42			<u> </u>	<u>6</u>
41	<u> </u>	<u>5</u>	<u> </u>	<u>6</u>
40	<u> </u>	<u>3</u>	<u> </u>	<u>9</u>
39	<u> </u>	<u>8</u>	<u> </u>	<u>9</u>
38	<u> </u>	<u>8</u>	<u> </u>	<u>5</u>
37	<u> </u>	<u>11</u>	<u> </u>	<u>2</u>
36	<u> </u>	<u>9</u>	<u> </u>	<u>6</u>
35	<u> </u>	<u>5</u>		
34	<u> </u>	<u>10</u>	<u> </u>	<u>6</u>
33	<u> </u>	<u>7</u>	<u> </u>	<u>4</u>
32	<u> </u>	<u>2</u>	<u> </u>	<u>5</u>
31	<u> </u>	<u>5</u>	<u> </u>	<u>3</u>
30	<u> </u>	<u>4</u>		
29	<u> </u>	<u>1</u>		
28	<u> </u>	<u>1</u>	<u> </u>	<u>2</u>
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		<u>79</u>	TOTAL <u>70</u>	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL - SAN JOSE ROAD
0.4 TO MI 1.4 MI N OF SOQUEL DR**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel San Jose Road from 0.4 miles north of Soquel Drive to 1.4 miles north of Soquel Drive (Speed Data collected at Shauna Court)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	39 mph	37 mph
Pace Speed	31-41 mph	29-39 mph
Average Speed	34.63 mph	32.99 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 MPH and 39 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel San Jose Road			
From:	.4 mi N of Soquel Dr	45	0	100.0%
To:	1.4 mi N of Soquel Dr	44	1 ♦	100.0%
Direction:	NB	43	0	98.9%
Weather:	Overcast	42	2 ♦♦	98.9%
Posted Speed:	35	41	1 ♦	96.6%
Begin time:	9:14 AM	40	5 ♦♦♦♦♦	95.5%
End time:	10:13 AM	39	6 ♦♦♦♦♦♦	89.8%
		38	6 ♦♦♦♦♦♦	83.0%
		37	3 ♦♦♦	76.1%
		36	12 ♦♦♦♦♦♦♦♦♦♦♦♦	72.7%
		35	12 ♦♦♦♦♦♦♦♦♦♦♦♦	59.1%
		34	8 ♦♦♦♦♦♦♦♦	45.5%
		33	8 ♦♦♦♦♦♦♦♦	36.4%
		32	6 ♦♦♦♦♦♦	27.3%
		31	6 ♦♦♦♦♦♦	20.5%
		30	4 ♦♦♦♦	13.6%
CRITICAL SPEED	39	29	2 ♦♦	9.1%
AVERAGE SPEED	34.63	28	3 ♦♦♦	6.8%
MEDIAN SPEED	35.0	27	0	3.4%
STANDARD DEVIATION	3.82	26	2 ♦♦	3.4%
PACE RANGE	31 - 41	25	1 ♦	1.1%
PERCENTAGE IN PACE	81.8%	24	0	0.0%
TOTAL # OF AUTOS	88	23	0	0.0%
		22	0	0.0%
		21	0	0.0%
		20	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel San Jose Road			
From:	.4 mi N of Soquel Dr	43	0	100.0%
To:	1.4 mi N of Soquel Dr	42	1 ♦	100.0%
Direction:	SB	41	2 ♦♦	98.7%
Weather:	Overcast	40	0	96.2%
Posted Speed:	35	39	1 ♦	96.2%
Begin time:	9:14 AM	38	4 ♦♦♦♦	94.9%
End time:	10:13 AM	37	5 ♦♦♦♦♦	89.9%
		36	5 ♦♦♦♦♦	83.5%
		35	7 ♦♦♦♦♦♦♦	77.2%
		34	7 ♦♦♦♦♦♦♦	68.4%
		33	12 ♦♦♦♦♦♦♦♦♦♦	59.5%
		32	15 ♦♦♦♦♦♦♦♦♦♦♦♦	44.3%
		31	6 ♦♦♦♦♦♦	25.3%
		30	3 ♦♦♦	17.7%
		29	2 ♦♦	13.9%
CRITICAL SPEED	37	28	2 ♦♦	11.4%
AVERAGE SPEED	32.99	27	2 ♦♦	8.9%
MEDIAN SPEED	33.0	26	2 ♦♦	6.3%
STANDARD DEVIATION	3.75	25	2 ♦♦	3.8%
PAGE RANGE	29 - 39	24	0	1.3%
PERCENTAGE IN PAGE	83.5%	23	0	1.3%
TOTAL # OF AUTOS	79	22	0	1.3%
		21	1 ♦	1.3%
		20	0	0.0%
		19	0	0.0%
		18	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

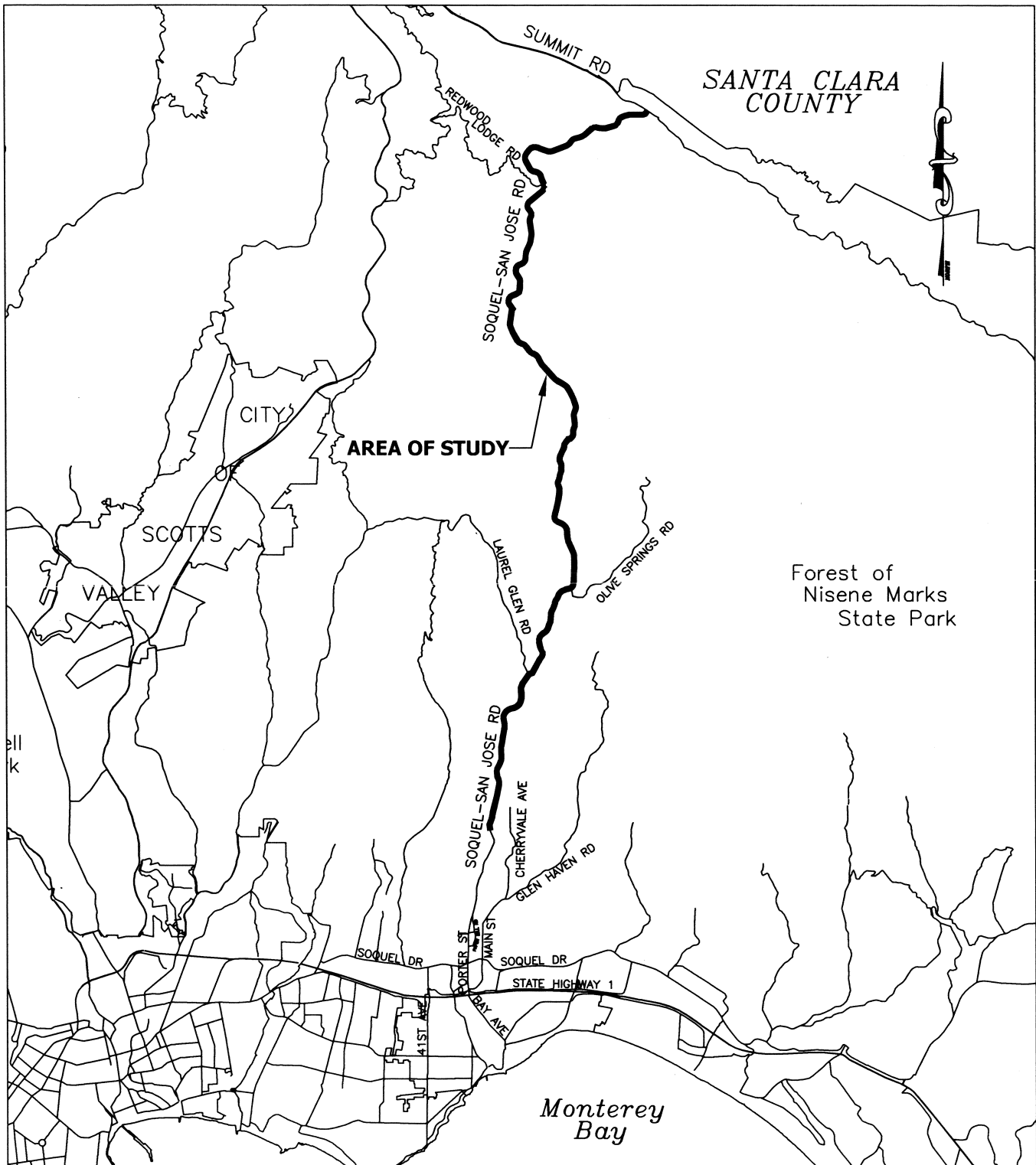
C. SHAW ET.

LOCATION SOQUEL SAN JOSE RD. BY RR
 ROAD NO. _____ DATE 9/9/14 DAY _____ BEGIN 9:15 END 10:13
 POSTED SPEED _____ WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE FLAT CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44		1		
43				
42		2		1
41		1		2
40		5		
39		6		1
38		6		4
37		3		5
36		12		5
35		12		7
34		8		7
33		8		12
32		6		15
31		6		6
30		4		3
29		2		2
28		3		2
27		2		2
26		2		2
25		1		2
24				
23				
22				
21				1
20-				
TOTAL		88	TOTAL 79	

275



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SOQUEL - SAN JOSE ROAD
1.4 MI N OF SOQUEL DR TO SUMMIT RD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Soquel San Jose Road from 1.4 miles north of Soquel Drive to Summit Road
(Speed Data collected at post mile 6.0)

PREVAILING SPEED DATA:

The existing posted speed limit is 40 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	39 mph	40 mph
Pace Speed	33-43 mph	32-42 mph
Average Speed	36.52 mph	36.07 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 MPH and 40 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel San Jose Road			
From:	1.4 mi N of Soquel Dr	48	0	100.0%
To:	Summit Road	47	1 ♦	100.0%
Direction:	NB	46	0	98.4%
Weather:	Sunny	45	0	98.4%
Posted Speed:	35	44	0	98.4%
Begin time:	10:30 AM	43	2 ♦♦	98.4%
End time:	11:40 AM	42	2 ♦♦	95.1%
		41	2 ♦♦	91.8%
		40	1 ♦	88.5%
		39	7 ♦♦♦♦♦♦♦	86.9%
		38	5 ♦♦♦♦♦	75.4%
		37	5 ♦♦♦♦♦	67.2%
		36	13 ♦♦♦♦♦♦♦♦♦♦♦	59.0%
		35	6 ♦♦♦♦♦♦	37.7%
		34	9 ♦♦♦♦♦♦♦♦♦	27.9%
		33	5 ♦♦♦♦♦	13.1%
CRITICAL SPEED	39	32	1 ♦	4.9%
AVERAGE SPEED	36.52	31	0	3.3%
MEDIAN SPEED	36.0	30	2 ♦♦	3.3%
STANDARD DEVIATION	3.17	29	0	0.0%
PACE RANGE	33 - 43	28	0	0.0%
PERCENTAGE IN PACE	90.2%	27	0	0.0%
TOTAL # OF AUTOS	61	26	0	0.0%
		25	0	0.0%
		24	0	0.0%
		23	0	0.0%

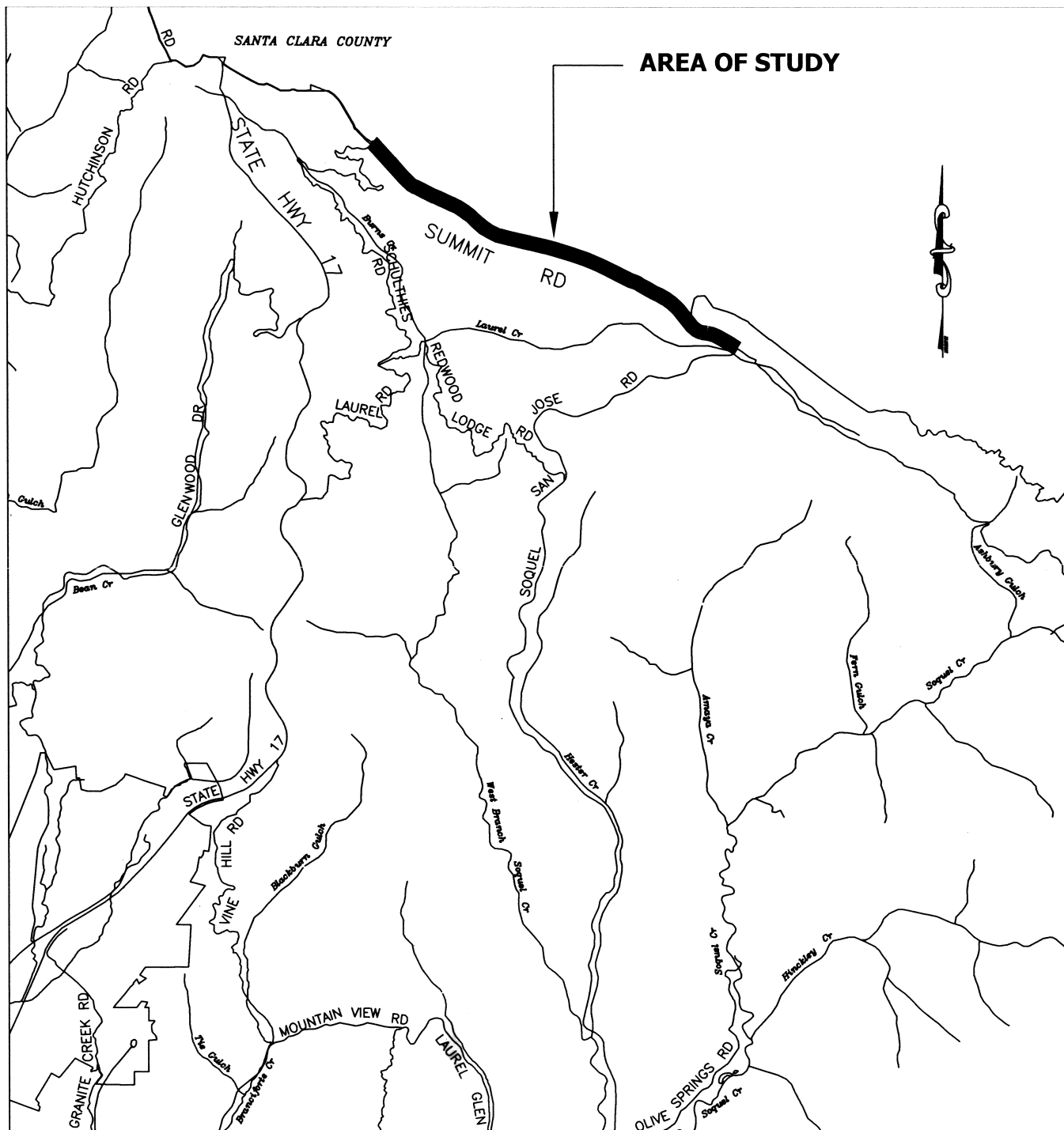
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Soquel San Jose Road			
From:	1.4 mi N of Soquel Dr	47	0	100.0%
To:	Summit Road	46	1 ♦	100.0%
Direction:	SB	45	0	98.3%
Weather:	Sunny	44	0	98.3%
Posted Speed:	40	43	1 ♦	98.3%
Begin time:	10:30 AM	42	1 ♦	96.7%
End time:	11:40 AM	41	2 ♦♦	95.0%
		40	4 ♦♦♦♦	91.7%
		39	1 ♦	85.0%
		38	7 ♦♦♦♦♦♦♦	83.3%
		37	8 ♦♦♦♦♦♦♦♦	71.7%
		36	8 ♦♦♦♦♦♦♦♦	58.3%
		35	9 ♦♦♦♦♦♦♦♦♦	45.0%
		34	4 ♦♦♦♦	30.0%
		33	5 ♦♦♦♦♦	23.3%
CRITICAL SPEED	40	32	7 ♦♦♦♦♦♦♦	15.0%
AVERAGE SPEED	36.07	31	2 ♦♦	3.3%
MEDIAN SPEED	36.0	30	0	0.0%
STANDARD DEVIATION	3.12	29	0	0.0%
PACE RANGE	32 - 42	28	0	0.0%
PERCENTAGE IN PACE	91.7%	27	0	0.0%
TOTAL # OF AUTOS	60	26	0	0.0%
		25	0	0.0%
		24	0	0.0%
		23	0	0.0%
		22	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION SODUEL SAN JOSE Rd. @ PM 6.0 BY RE
ROAD NO _____ DATE 9/9/19 DAY _____ BEGIN 10:30 END 11:40
POSTED SPEED 40 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 2.5% CALIBRATED YES

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	<u>NB</u>		<u>SB</u>	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47		1		
46				1
45				1
44				
43		2		1
42		2		1
41		2		2
40		1		4
39		4		3
38		4		4
37		4		4
36		4		4
35		4		4
34		4		4
33		4		4
32		4		4
31				2
30		2		
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
TOTAL		<u>61</u>	TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SUMMIT ROAD
OLD SANTA CRUZ HIGHWAY TO SOQUEL-SAN JOSE ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Summit Road from Old Santa Cruz HWY to Soquel San Jose Road (Speed Data collected at Del Monte Way)

PREVAILING SPEED DATA:

The existing posted speed limit is 40 mph and is radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	42 mph	42 mph
Pace Speed	34-44 mph	32-42 mph
Average Speed	38.34 mph	38.06 mph

ANALYSIS:

The prevailing 85th percentile speeds is 42 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 40 MPH. It is recommended that the existing 40 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Summit Road			
From:	Old Santa Cruz HWY	50	0	100.0%
To:	Soquel San Jose Rd	49	1 ♦	100.0%
Direction:	EB	48	0	98.9%
Weather:	Sunny	47	0	98.9%
Posted Speed:	40	46	1 ♦	98.9%
Begin time:	1:45 PM	45	1 ♦	97.8%
End time:	2:52 PM	44	1 ♦	96.7%
		43	5 ♦♦♦♦♦	95.6%
		42	12 ♦♦♦♦♦♦♦♦♦♦	90.0%
		41	8 ♦♦♦♦♦♦♦	76.7%
		40	4 ♦♦♦♦	67.8%
		39	6 ♦♦♦♦♦	63.3%
		38	13 ♦♦♦♦♦♦♦♦♦♦	56.7%
		37	9 ♦♦♦♦♦♦♦	42.2%
		36	9 ♦♦♦♦♦♦♦	32.2%
CRITICAL SPEED	42	35	9 ♦♦♦♦♦♦♦	22.2%
AVERAGE SPEED	38.34	34	4 ♦♦♦♦	12.2%
MEDIAN SPEED	38.0	33	4 ♦♦♦♦	7.8%
STANDARD DEVIATION	3.55	32	1 ♦	3.3%
PACE RANGE	34 - 44	31	0	2.2%
PERCENTAGE IN PACE	87.8%	30	2 ♦♦	2.2%
TOTAL # OF AUTOS	90	29	0	0.0%
		28	0	0.0%
		27	0	0.0%
		26	0	0.0%
		25	0	0.0%

RADAR SPEED SURVEY

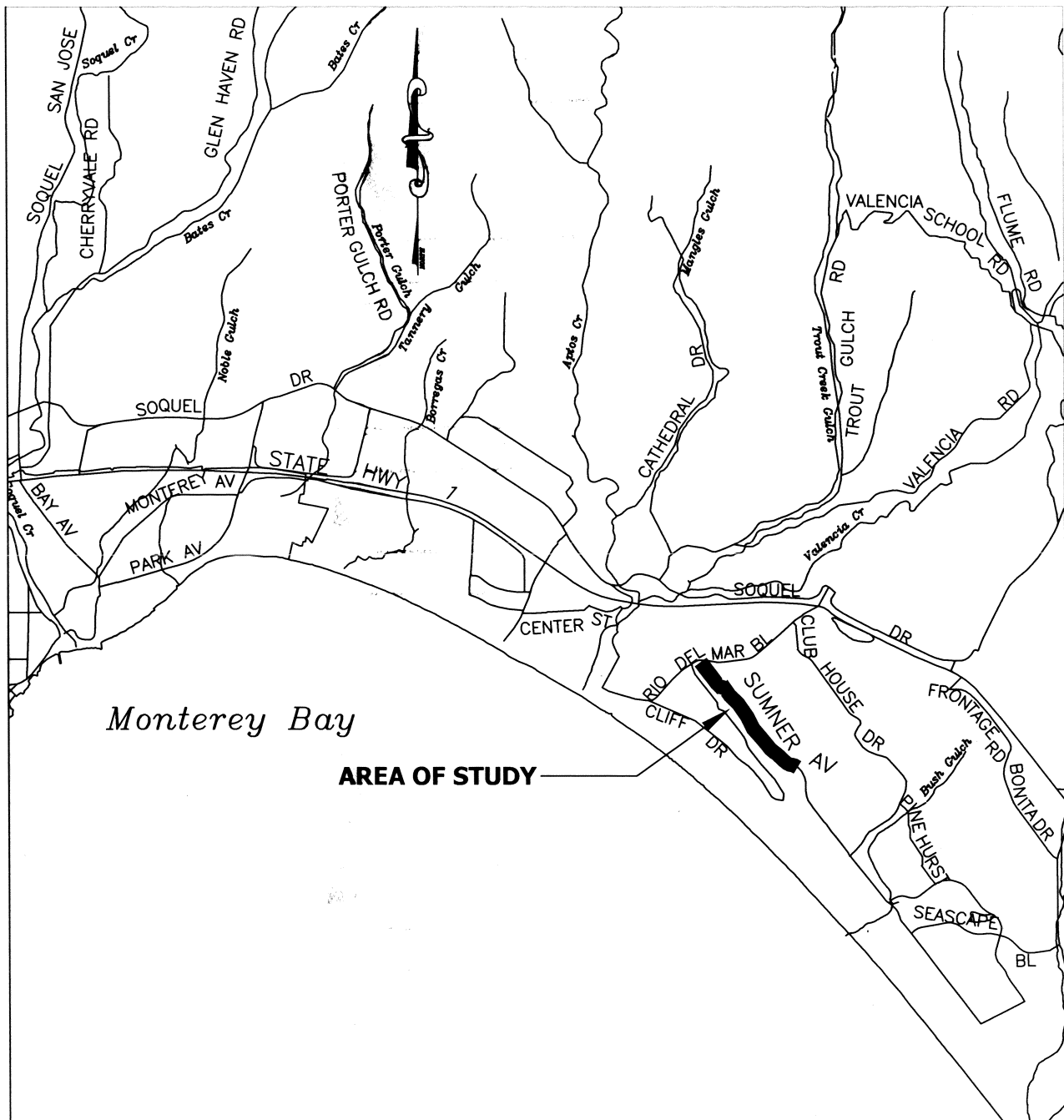
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Summit Road	53	0	100.0%
From:	Old Santa Cruz HWY	52	1 ♦	100.0%
To:	Soquel San Jose Rd	51	0	98.7%
Direction:	WB	50	0	98.7%
Weather:	Sunny	49	2 ♦♦	98.7%
Posted Speed:	40	48	2 ♦♦	96.2%
Begin time:	1:45 PM	47	0	93.6%
End time:	2:52 PM	46	0	93.6%
		45	1 ♦	93.6%
		44	2 ♦♦	92.3%
		43	2 ♦♦	89.7%
		42	2 ♦♦	87.2%
		41	5 ♦♦♦♦♦	84.6%
		40	11 ♦♦♦♦♦♦♦♦♦♦	78.2%
		39	8 ♦♦♦♦♦♦♦♦	64.1%
CRITICAL SPEED	42	38	9 ♦♦♦♦♦♦♦♦	53.8%
AVERAGE SPEED	38.06	37	4 ♦♦♦♦	42.3%
MEDIAN SPEED	38.0	36	6 ♦♦♦♦♦♦	37.2%
STANDARD DEVIATION	4.65	35	8 ♦♦♦♦♦♦♦♦	29.5%
PACE RANGE	32 - 42	34	4 ♦♦♦♦	19.2%
PERCENTAGE IN PACE	78.2%	33	1 ♦	14.1%
TOTAL # OF AUTOS	78	32	5 ♦♦♦♦♦	12.8%
		31	1 ♦	6.4%
		30	2 ♦♦	5.1%
		29	1 ♦	2.6%
		28	1 ♦	1.3%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION <u>SUNNIT RD @ DELMONTE WAY</u>		BY <u>PR</u>	
ROAD NO _____	DATE <u>10/1/14</u>	DAY _____	BEGIN <u>1:45</u> END <u>2:52</u>
POSTED SPEED <u>40 MPH</u>		WEATHER <u>SUNNY</u>	
NUMBER OF LANES <u>2</u>	GRADE <u>10%</u>	CALIBRATED <u>YES</u>	
NUMBER OF VEHICLES			
MPH	DIRECTION <u>EB</u>	TOTAL OF EACH SPEED	DIRECTION <u>WB</u>
60			
59			
58			
57			
56			
55			
54			
53			
52			1
51			
50			
49	1	1	2
48			2
47			
46	1	1	
45	1	1	1
44	1	1	2
43	###	5	2
42	###	12	2
41	###	8	5
40	###	4	11
39	###	6	8
38	###	13	9
37	###	9	4
36	###	9	6
35	###	9	8
34	###	4	4
33	###	4	1
32	1	1	5
31			1
30	11	2	2
29			1
28			1
27			
26			
25			
24			
23			
22			
21			
20			
TOTAL		<u>90</u>	TOTAL <u>78</u>

N
-
A
-
35
30
25

285



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SUMNER AVENUE
RIO DEL MAR BOULEVARD TO LOS ALTOS DRIVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Sumner Avenue from Rio Del Mar Boulevard to Los Altos Drive (Speed Data collected at #410)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	28 mph	27 mph
Pace Speed	20-30 mph	20-30 mph
Average Speed	25.25 mph	25.02 mph

ANALYSIS:

The prevailing 85th percentile speeds are 27 MPH and 28 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 25 MPH. It is recommended that the existing 25 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Sumner Avenue				
From:	Rio Del Mar Boulevard	32	0		100.0%
To:	Los Altos Dr	31	5	◆◆◆◆◆	100.0%
Direction:	NB	30	1	◆	93.5%
Weather:	Sunny	29	2	◆◆	92.2%
Posted Speed:	25	28	7	◆◆◆◆◆◆◆	89.6%
Begin time:	9:20 AM	27	9	◆◆◆◆◆◆◆◆◆	80.5%
End time:	10:20 AM	26	11	◆◆◆◆◆◆◆◆◆◆◆	68.8%
		25	12	◆◆◆◆◆◆◆◆◆◆◆◆◆	54.5%
		24	10	◆◆◆◆◆◆◆◆◆◆◆	39.0%
		23	6	◆◆◆◆◆◆◆	26.0%
		22	7	◆◆◆◆◆◆◆◆	18.2%
		21	4	◆◆◆◆◆	9.1%
		20	3	◆◆◆◆	3.9%
		19	0		0.0%
		18	0		0.0%
CRITICAL SPEED	28	17	0		0.0%
AVERAGE SPEED	25.25	16	0		0.0%
MEDIAN SPEED	25.0	15	0		0.0%
STANDARD DEVIATION	2.76		0		0.0%
PACE RANGE	20 - 30		0		
PERCENTAGE IN PACE	92.2%		0		
TOTAL # OF AUTOS	77		0		
			0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY

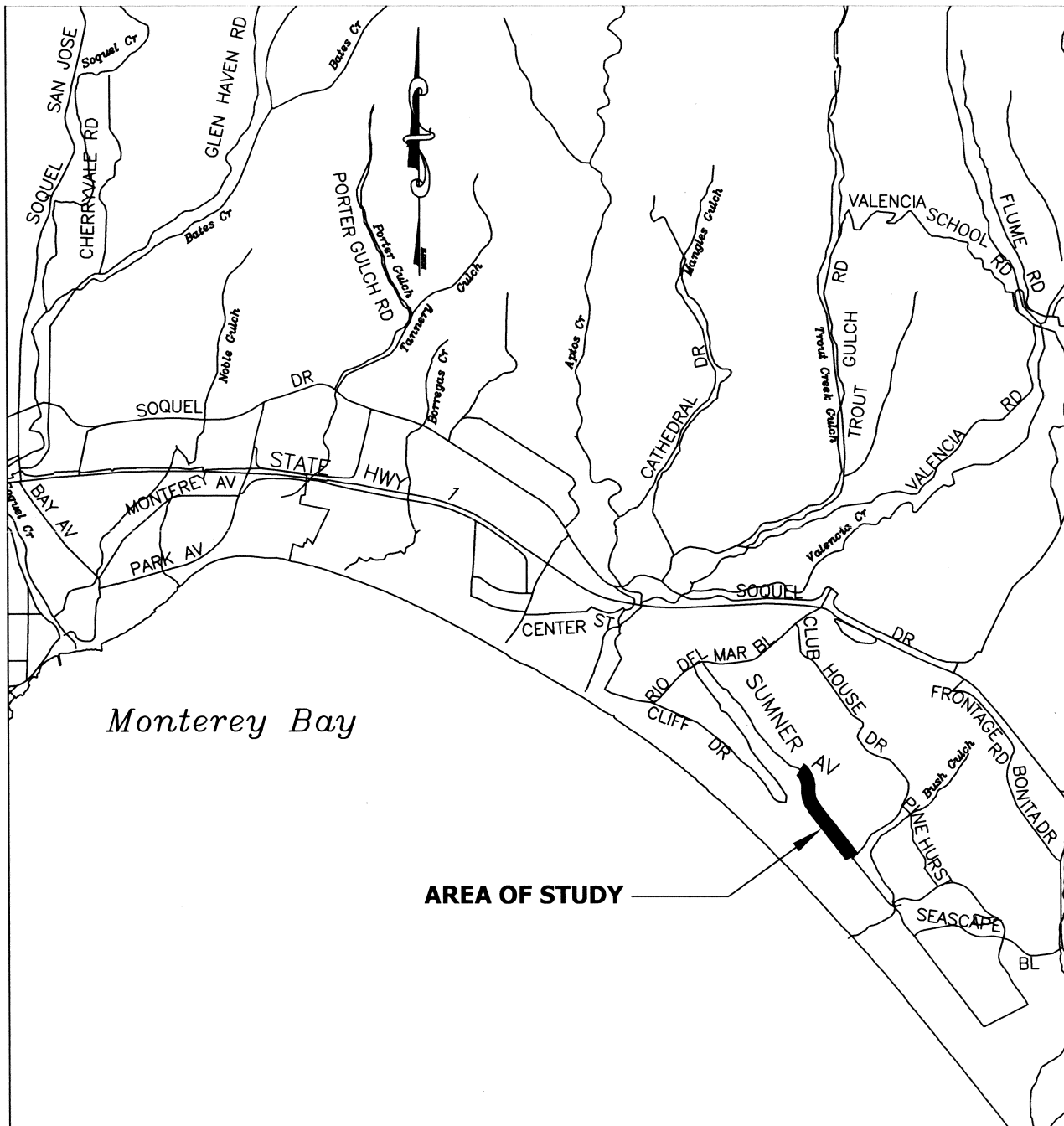
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Sumner Avenue	31	0		100.0%
From:	Rio Del Mar Boulevard	30	1	◆	100.0%
To:	Los Altos Dr	29	2	◆◆	98.1%
Direction:	SB	28	3	◆◆◆	94.3%
Weather:	Sunny	27	9	◆◆◆◆◆◆◆◆	88.7%
Posted Speed:	25	26	11	◆◆◆◆◆◆◆◆◆◆	71.7%
Begin time:	9:20 AM	25	6	◆◆◆◆◆	50.9%
End time:	10:20 AM	24	7	◆◆◆◆◆◆	39.6%
		23	5	◆◆◆◆◆	26.4%
		22	6	◆◆◆◆◆◆	17.0%
		21	0		5.7%
		20	3	◆◆◆	5.7%
		19	0		0.0%
		18	0		0.0%
		17	0		0.0%
CRITICAL SPEED	27	16	0		0.0%
AVERAGE SPEED	25.02	15	0		0.0%
MEDIAN SPEED	25.0		0		
STANDARD DEVIATION	2.35		0		
PACE RANGE	20 - 30		0		
PERCENTAGE IN PACE	98.1%		0		
TOTAL # OF AUTOS	53		0		
			0		
			0		
			0		
			0		
			0		

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION SUNNER AVE AT 410 BY RR
 ROAD NO _____ DATE 1/15/15 DAY AM BEGIN 9:20 END 10:20
 POSTED SPEED 25 MPH WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 2% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION NB	TOTAL OF EACH SPEED	DIRECTION SB	TOTAL OF EACH SPEED
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				
35				
34				
33				
32				
31		5		
30		1		1
29		2		2
28		7		3
27		9		9
26		11		11
25		12		6
24		10		7
23		6		5
22		7		6
21		4		
20-		3		3
TOTAL		77	TOTAL	53



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
SUMNER AVENUE
LOS ALTOS DRIVE TO CLUB HOUSE DRIVE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Sumner Avenue from Los Altos Drive to Clubhouse Drive (Speed Data collected at a location near access to Hidden Beach #410)

PREVAILING SPEED DATA:

The existing posted speed limit is 35 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	35 mph	33 mph
Pace Speed	27-37 mph	25-35 mph
Average Speed	31.17 mph	28.68 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 MPH and 35 MPH depending on the direction of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. It is recommended that the existing 35 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Sumner Avenue			
From:	Los Altos Dr	42	0	100.0%
To:	Clubhouse Dr	41	1 ♦	100.0%
Direction:	NB	40	2 ♦♦	98.5%
Weather:	Overcast	39	0	95.5%
Posted Speed:	35	38	3 ♦♦♦	95.5%
Begin time:	10:03 AM	37	1 ♦	90.9%
End time:	11:05 AM	36	2 ♦♦	89.4%
		35	2 ♦♦	86.4%
		34	4 ♦♦♦♦	83.3%
		33	6 ♦♦♦♦♦♦	77.3%
		32	7 ♦♦♦♦♦♦♦	68.2%
		31	8 ♦♦♦♦♦♦♦♦	57.6%
		30	7 ♦♦♦♦♦♦♦	45.5%
		29	7 ♦♦♦♦♦♦♦	34.8%
		28	7 ♦♦♦♦♦♦♦	24.2%
		27	5 ♦♦♦♦♦	13.6%
CRITICAL SPEED	35	26	0	6.1%
AVERAGE SPEED	31.17	25	2 ♦♦	6.1%
MEDIAN SPEED	31.0	24	0	3.0%
STANDARD DEVIATION	3.98	23	1 ♦	3.0%
PACE RANGE	27 - 37	22	0	1.5%
PERCENTAGE IN PACE	83.3%	21	0	1.5%
TOTAL # OF AUTOS	66	20	1 ♦	1.5%
		19	0	0.0%
		18	0	0.0%
		17	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Sumner Avenue			
From:	Los Altos Dr	39	0	100.0%
To:	Clubhouse Dr	38	1 ♦	100.0%
Direction:	SB	37	0	98.4%
Weather:	Overcast	36	1 ♦	98.4%
Posted Speed:	35	35	0	96.8%
Begin time:	10:03 AM	34	5 ♦♦♦♦♦	96.8%
End time:	11:05 AM	33	4 ♦♦♦♦	88.7%
		32	8 ♦♦♦♦♦♦♦♦	82.3%
		31	4 ♦♦♦♦	69.4%
		30	3 ♦♦♦	62.9%
		29	9 ♦♦♦♦♦♦♦♦♦	58.1%
		28	1 ♦	43.5%
		27	5 ♦♦♦♦♦	41.9%
		26	7 ♦♦♦♦♦♦♦	33.9%
		25	4 ♦♦♦♦	22.6%
CRITICAL SPEED	33	24	4 ♦♦♦♦	16.1%
AVERAGE SPEED	28.68	23	1 ♦	9.7%
MEDIAN SPEED	29.0	22	3 ♦♦♦	8.1%
STANDARD DEVIATION	4.01	21	1 ♦	3.2%
PACE RANGE	25 - 35	20	1 ♦	1.6%
PERCENTAGE IN PACE	80.6%	19	0	0.0%
TOTAL # OF AUTOS	62	18	0	0.0%
		17	0	0.0%
		16	0	0.0%
		15	0	0.0%
			0	

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

NEAR ACCESS TO HIDDEN BEACH

LOCATION SUNNER AVE NORTH of Club House BY RR
 ROAD NO _____ DATE 10/20/15 DAY _____ BEGIN 10:03 END 11:05
 POSTED SPEED 35 MPH WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 2% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION <i>NB (WB)</i>	TOTAL OF EACH SPEED	DIRECTION <i>SB (EB)</i>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41		1		
40		2		
39				
38		3		
37		1		
36		2		
35		2		
34		4		
33		6		5
32		7		4
31		8		3
30		7		3
29		7		9
28		7		1
27		5		5
26				7
25		2		4
24				4
23		1		1
22				3
21				1
20-		1		1
TOTAL		66	TOTAL	

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Thurber Lane from Soquel Drive to Helen Avenue (Speed Data collected at the corner of Sequoia Dr and Thurber Lane)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	33 mph	32 mph
Pace Speed	25-35 mph	25-35 mph
Average Speed	31.03 mph	29.56 mph

ANALYSIS:

The prevailing 85th percentile speed is 33 MPH and 32 MPH depending on the directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Thurber Lane			
From:	Soquel Drive	43		100.0%
To:	Helen Avenue	42		100.0%
Direction:	Southbound	41		100.0%
Weather:	Sunny	40		100.0%
Posted Speed:	30	39	1 ♦	100.0%
Begin time:	12:52 PM	38		98.5%
End time:	1:21 PM	37	1 ♦	98.5%
		36		97.1%
		35	1 ♦	97.1%
		34		95.6%
		33	3 ♦♦♦	95.6%
		32	12 ♦♦♦♦♦♦♦♦♦♦	91.2%
		31	9 ♦♦♦♦♦♦♦♦	73.5%
		30	8 ♦♦♦♦♦♦♦♦	60.3%
		29	7 ♦♦♦♦♦♦♦	48.5%
CRITICAL SPEED	32	28	7 ♦♦♦♦♦♦♦	38.2%
AVERAGE SPEED	29.56	27	6 ♦♦♦♦♦♦	27.9%
MEDIAN SPEED	30.0	26	11 ♦♦♦♦♦♦♦♦♦♦	19.1%
STANDARD DEVIATION	2.84	25	2 ♦♦	2.9%
PACE RANGE	25 - 35	24		0.0%
PERCENTAGE IN PACE	95.6%	23		0.0%
TOTAL # OF AUTOS	68	22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

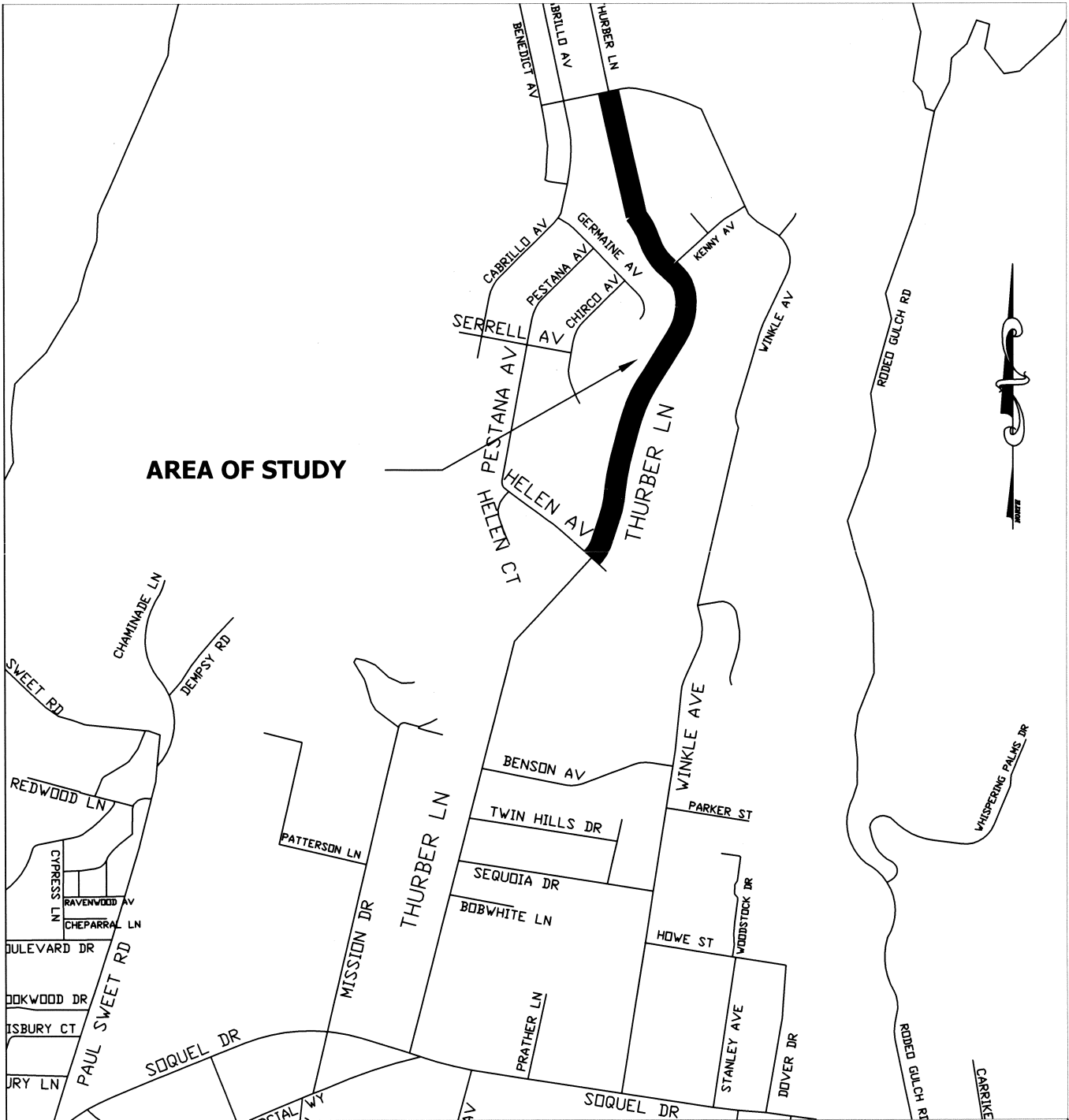
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Thurber Lane			
From:	Soquel Drive	43	1 ♦	100.0%
To:	Helen Avenue	42		98.5%
Direction:	Northbound	41		98.5%
Weather:	Sunny	40	1 ♦	98.5%
Posted Speed:	30	39		97.0%
Begin time:	12:52 PM	38	1 ♦	97.0%
End time:	1:21 PM	37	1 ♦	95.5%
		36	1 ♦	94.0%
		35	1 ♦	92.5%
		34	2 ♦♦	91.0%
		33	8 ♦♦♦♦♦♦♦♦	88.1%
		32	14 ♦♦♦♦♦♦♦♦♦♦♦♦♦♦	76.1%
		31	12 ♦♦♦♦♦♦♦♦♦♦♦♦	55.2%
		30	7 ♦♦♦♦♦♦♦	37.3%
		29	4 ♦♦♦♦	26.9%
CRITICAL SPEED	33	28	4 ♦♦♦♦	20.9%
AVERAGE SPEED	31.03	27	4 ♦♦♦♦	14.9%
MEDIAN SPEED	31.0	26	2 ♦♦	9.0%
STANDARD DEVIATION	3.33	25	4 ♦♦♦♦	6.0%
PACE RANGE	25 - 35	24		0.0%
PERCENTAGE IN PACE	91.0%	23		0.0%
TOTAL # OF AUTOS	67	22		0.0%
		21		0.0%
		20		0.0%
		19		0.0%
		18		0.0%
		17		0.0%
		16		0.0%
		15		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION THURBER @ 55th A (Signal - Helen) BY _____
ROAD NO _____ DATE 9/13/15 DAY WED BEGIN 1252 END 121 M
POSTED SPEED 30 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 0% CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION <u>N ↑</u>	TOTAL OF EACH SPEED	DIRECTION <u>S ↓</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43		1		
42				
41				
40		1		
39				1
38		1		
37		1		1
36		1		
35		1		1
34		2		
33	11-11	8	11-11	3
32	11-11-11	14	11-11-11	12
31	11-11-11	12	11-11-11	9
30	11-11	7	11-11	8
29	11	4	11-11	7
28	11	4	11-11	7
27	11	2	11-11	6
26	11	4	11-11-11	11
25				2
24				
23				
22				
21				
20				
TOTAL			TOTAL	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
THURBER LANE
HELEN AVENUE TO WINKLE AVENUE**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Thurber Lane from Helen Avenue to Winkle Avenue. (Speed Data collected at 4840 Thurber Lane)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	37 mph	37 mph
Pace Speed	29-39 mph	29-39 mph
Average Speed	33.3 mph	33.2 mph

ANALYSIS:

The prevailing 85th percentile speed is 37 MPH in both directions of travel. The safe speed is established at or near the average 85th percentile which is calculated to be 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the California Manual on Uniform Traffic Control Devices indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima-facie residential district, safe stopping sight distance, extreme road profile conditions, wildlife area, and children walking and bicycling to school. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Thurber Lane	45	0		100.0%
From:	Helen Ave	44	0		100.0%
To:	Winkle Ave	43	0		100.0%
Direction:	Northbound	42	0		100.0%
Weather:	Sunny	41	1	◆	100.0%
Posted Speed:	30	40	1	◆	98.3%
Begin time:	2:30 PM	39	0		96.7%
End time:	3:03 PM	38	3	◆◆◆	96.7%
		37	6	◆◆◆◆◆◆	91.7%
		36	3	◆◆◆	81.7%
		35	6	◆◆◆◆◆◆	76.7%
		34	7	◆◆◆◆◆◆◆	66.7%
		33	7	◆◆◆◆◆◆◆	55.0%
		32	9	◆◆◆◆◆◆◆◆◆	43.3%
		31	7	◆◆◆◆◆◆◆	28.3%
		30	5	◆◆◆◆◆	16.7%
CRITICAL SPEED	37	29	1	◆	8.3%
AVERAGE SPEED	33.30	28	2	◆◆	6.7%
MEDIAN SPEED	33.0	27	2	◆◆	3.3%
STANDARD DEVIATION	3.07	26	0		0.0%
PACE RANGE	29 - 39	25	0		0.0%
PERCENTAGE IN PACE	90.0%	24	0		0.0%
TOTAL # OF AUTOS	60	23	0		0.0%
		22	0		0.0%
		21	0		0.0%
		20	0		0.0%

RADAR SPEED SURVEY

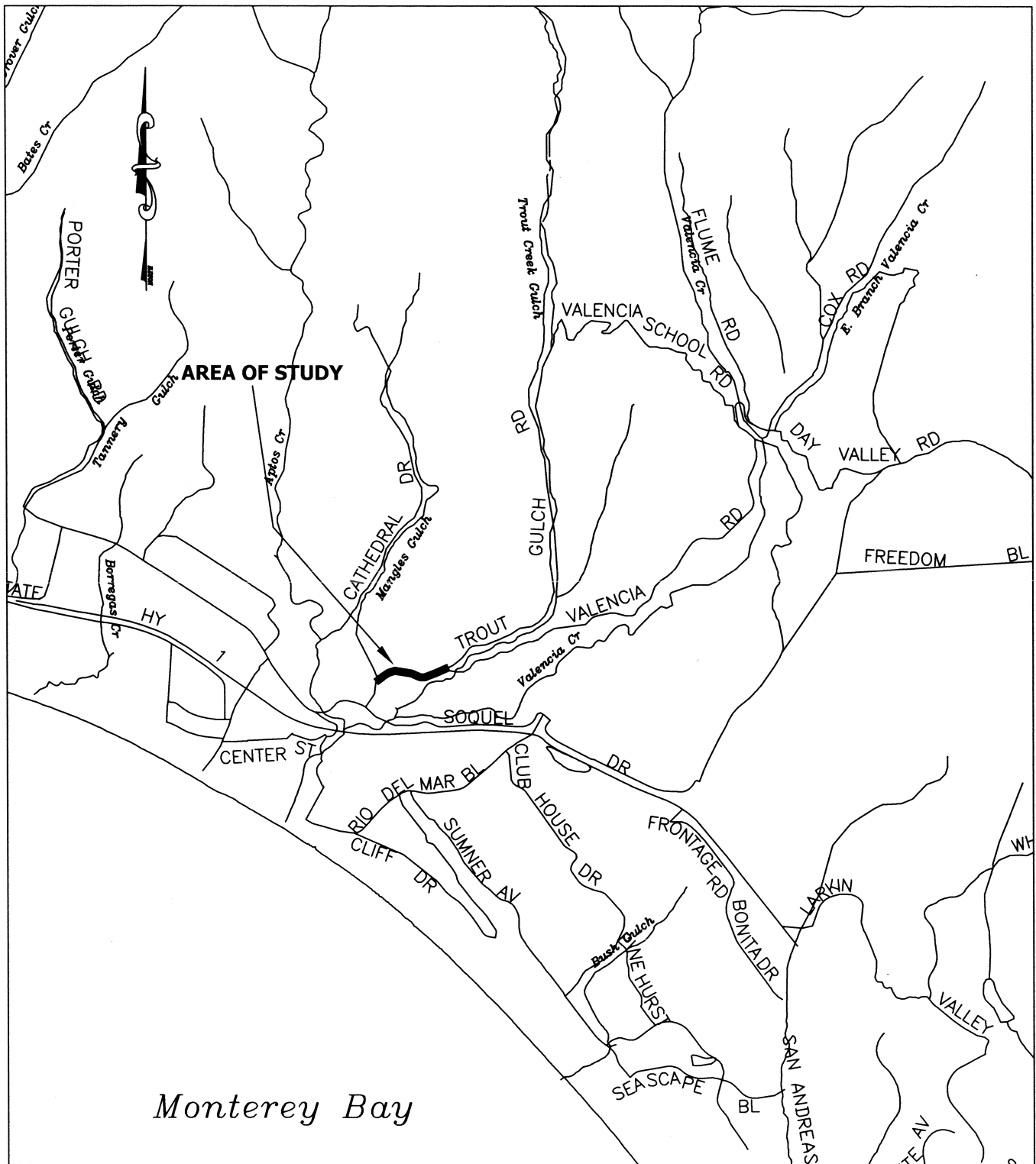
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Thurber Lane				
From:	Winkle Ave	45	0		100.0%
To:	Helen Ave	44	0		100.0%
Direction:	Southbound	43	0		100.0%
Weather:	Sunny	42	0		100.0%
Posted Speed:	30	41	0		100.0%
Begin time:	2:30 PM	40	0		100.0%
End time:	3:03 PM	39	3	◆◆◆	100.0%
		38	5	◆◆◆◆◆	95.9%
		37	7	◆◆◆◆◆◆◆	89.2%
		36	4	◆◆◆◆	79.7%
		35	5	◆◆◆◆◆	74.3%
		34	7	◆◆◆◆◆◆◆	67.6%
		33	11	◆◆◆◆◆◆◆◆◆◆◆	58.1%
		32	7	◆◆◆◆◆◆◆	43.2%
		31	9	◆◆◆◆◆◆◆◆◆	33.8%
		30	7	◆◆◆◆◆◆◆	21.6%
CRITICAL SPEED	37	29	6	◆◆◆◆◆◆	12.2%
AVERAGE SPEED	33.16	28	2	◆◆	4.1%
MEDIAN SPEED	33.0	27	0		1.4%
STANDARD DEVIATION	3.15	26	0		1.4%
PACE RANGE	29 - 39	25	1	◆	1.4%
PERCENTAGE IN PACE	91.9%	24	0		0.0%
TOTAL # OF AUTOS	74	23	0		0.0%
		22	0		0.0%
		21	0		0.0%
		20	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION 4840 TURBOR HIGHWAY - WINKLE BY GJM
ROAD NO 24143 DATE 10/23/14 DAY TH BEGIN 2:30 END 3:03
POSTED SPEED 30 WEATHER SUNNY
NUMBER OF LANES 2 GRADE 5% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION → Santa Cruz SOUTHBOUND	TOTAL OF EACH SPEED	DIRECTION Hills ← NORTHBOUND	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40			/	1
39		3		1
38		5		3
37		7		6
36		4		3
35		5		6
34		7		7
33		11		7
32		7		9
31		9		7
30		7		5
29		6		1
28		2		2
27				2
26				
25	/	1		
24				
23				
22				
21				
20-				
TOTAL		74	TOTAL 60	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
TROUT GULCH ROAD
CATHEDRAL DRIVE TO VALENCIA ROAD**

October 2015

TRAFFIC AND ENGINEERING REPORT
OCTOBER 2015

PURPOSE:

This survey is performed in accordance with Vehicle Code Section 40803 to allow the use of radar for enforcement purposes.

LOCATION:

Trout Gulch Road from Cathedral Drive to Valencia Road (Speed Data collected at Osprey Lane)

PREVAILING SPEED DATA:

The existing posted speed limit is 30 mph and is radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	35 mph	34 mph
Pace Speed	26-36 mph	27-37 mph
Average Speed	31.67 mph	31.13 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH and 35 MPH depending on the direction of travel. The safe speed is established at the first five miles per hour increment below the 85th percentile which is calculated to be 30 MPH. It is recommended that the existing 30 MPH speed limit remain with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Trout Gulch Rd	41	0	100.0%
From:	Cathedral Drive	40	2	100.0%
To:	Valencia Road	39	2	96.7%
Direction:	NB	38	2	93.4%
Weather:	Sunny	37	1	90.2%
Posted Speed:	30	36	0	88.5%
Begin time:	9:31 AM	35	6	88.5%
End time:	10:12 AM	34	3	78.7%
		33	10	73.8%
		32	6	57.4%
		31	8	47.5%
		30	2	34.4%
		29	5	31.1%
		28	6	23.0%
		27	3	13.1%
		26	2	8.2%
		25	1	4.9%
		24	2	3.3%
		23	0	0.0%
		22	0	0.0%
		21	0	0.0%
		20	0	0.0%
		19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%
CRITICAL SPEED	35			
AVERAGE SPEED	31.67			
MEDIAN SPEED	32.0			
STANDARD DEVIATION	3.82			
PACE RANGE	26 - 36			
PERCENTAGE IN PACE	83.6%			
TOTAL # OF AUTOS	61			

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Trout Gulch Rd	41	1 ♦	100.0%
From:	Cathedral Drive	40	0	98.6%
To:	Valencia Road	39	0	98.6%
Direction:	SB	38	0	98.6%
Weather:	Sunny	37	0	98.6%
Posted Speed:	30	36	2 ♦♦	95.8%
Begin time:	9:31 AM	35	4 ♦♦♦♦	90.3%
End time:	10:12 AM	34	3 ♦♦♦	86.1%
		33	6 ♦♦♦♦♦♦	77.8%
		32	8 ♦♦♦♦♦♦♦♦	66.7%
		31	10 ♦♦♦♦♦♦♦♦♦♦	52.8%
		30	7 ♦♦♦♦♦♦♦	43.1%
		29	9 ♦♦♦♦♦♦♦♦	30.6%
		28	8 ♦♦♦♦♦♦♦	19.4%
		27	3 ♦♦♦	15.3%
		26	5 ♦♦♦♦♦	8.3%
CRITICAL SPEED	34	25	3 ♦♦♦	4.2%
AVERAGE SPEED	31.13	24	1 ♦	2.8%
MEDIAN SPEED	31.0	23	2 ♦♦	0.0%
STANDARD DEVIATION	3.30	22	0	0.0%
PAGE RANGE	27 - 37	21	0	0.0%
PERCENTAGE IN PACE	87.5%	20	0	0.0%
TOTAL # OF AUTOS	72	19	0	0.0%
		18	0	0.0%
		17	0	0.0%
		16	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION <u>TROUT CREEK AT OSPEY LN.</u>		BY <u>RK</u>	
ROAD NO _____	DATE <u>1/30/15</u>	DAY <u>AM</u>	BEGIN <u>9:31</u> END <u>10:12</u>
POSTED SPEED <u>30</u>		WEATHER <u>90°F</u>	
NUMBER OF LANES <u>2</u>	GRADE <u>1%</u>	CALIBRATED <u>YES</u>	
NUMBER OF VEHICLES			
MPH	DIRECTION <u>NB</u>	TOTAL OF EACH SPEED	DIRECTION <u>SB</u>
60			
59			
58			
57			
56			
55			
54			
53			
52			
51			
50			
49			
48			
47			
46			
45			
44			
43			
42			
41			1
40		2	
39		2	
38		2	
37		1	
36			
35		6	
34		3	
33		10	
32		6	
31		8	
30		2	
29		5	
28		6	
27		3	
26		2	
25		1	
24		2	
23			
22			
21			
20-			
TOTAL		<u>61</u>	TOTAL

