



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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THOMAS L. BOLICH
DIRECTOR OF PUBLIC WORKS

TRAFFIC AND ENGINEERING REPORT

JUNE 2006



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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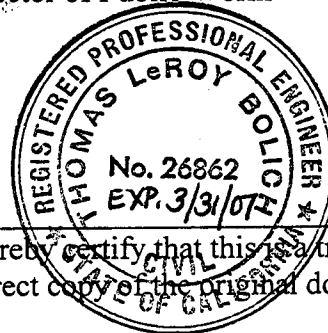
SUBJECT: TRAFFIC AND ENGINEERING REPORT JUNE 2006

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,

THOMAS L. BOLICH
Director of Public Works



Date

8/1/08

I hereby certify that this is a true and correct copy of the original document.

JSD:mh

Attachments

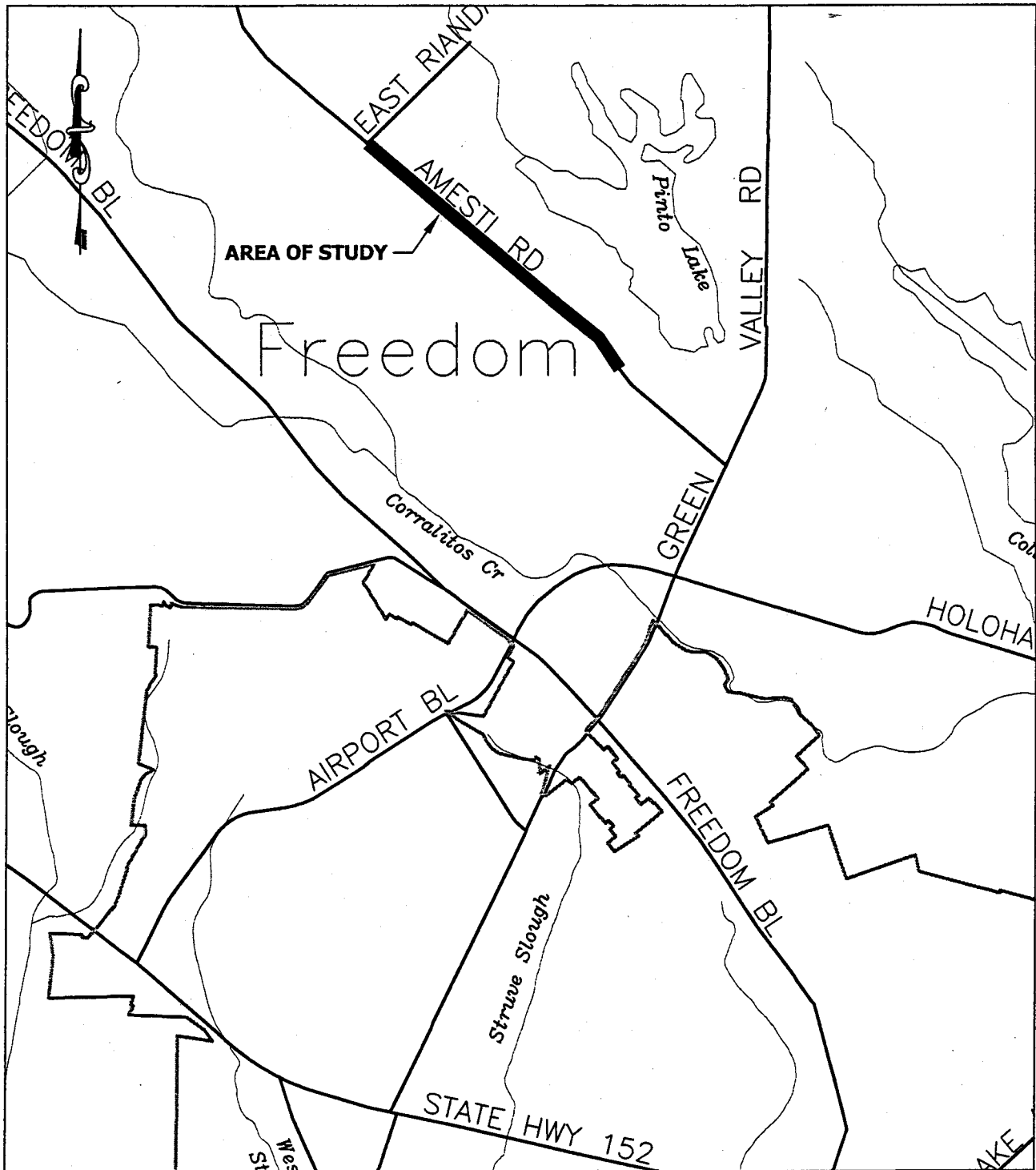
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TRAFFIC AND ENGINEERING REPORT

June, 2006

TABLE OF CONTENTS

Amesti Road	1 – 10
Bear Creek Road	11 – 25
Browns Valley Road	26 – 35
Buena Vista Road	36 – 40
Capitola Road	41 – 50
Clubhouse Drive	51 – 55
Freedom Boulevard	56 – 75
Glen Arbor Road	76 – 90
Glen Canyon Road	91 – 95
Mount Hermon Road	96 – 100
Mount Madonna Road	101 – 105
Porter Street	106 – 110
Portola Drive	111 – 130
Quail Hollow Road	131 – 135
Rio Del Mar Boulevard	136 – 140
Seventh Avenue	141 – 155
Soquel-San Jose Road	156 – 165



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
AMESTI ROAD
0.4 MILES NORTH OF GREEN VALLEY ROAD TO EAST RIANDA ROAD**

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

PURPOSE:

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

LOCATION:

Amesti Road from 0.4 miles northwesterly of Green Valley Road to East Rianda Road (Speed Data collected at Hawthorne)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	47 mph	44 mph
Pace Speed	36-46 mph	36-46 mph
Average Speed	40.70 mph	39.38 mph

ANALYSIS:

The prevailing 85th percentile speeds are 47 MPH and 44 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are many private roads and driveways, bus stops, bicycle traffic without bike lanes and pedestrian traffic without sidewalks or shoulders. 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: Amesti Road
 From: .4 m. W. of Green Valley Rd
 To: East Rianda Road
 Direction: Westbound
 Weather: Overcast
 Posted Speed: 40
 Begin time: 10:35
 End time: 11:24

CRITICAL SPEED 47
 AVERAGE SPEED 40.70
 MEDIAN SPEED 41.0
 STANDARD DEVIATION 6.27
 PACE RANGE 36 - 46
 PERCENTAGE IN PACE 66.0%
 TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
55	3	◆◆◆	100.0%
54	0		94.0%
53	0		94.0%
52	0		94.0%
51	0		94.0%
50	0		94.0%
49	1	◆	94.0%
48	2	◆◆	92.0%
47	2	◆◆	88.0%
46	1	◆	84.0%
45	4	◆◆◆◆	82.0%
44	1	◆	74.0%
43	2	◆◆	72.0%
42	4	◆◆◆◆	68.0%
41	6	◆◆◆◆◆◆	60.0%
40	5	◆◆◆◆◆	48.0%
39	3	◆◆◆	38.0%
38	1	◆	32.0%
37	5	◆◆◆◆◆	30.0%
36	2	◆◆	20.0%
35	2	◆◆	16.0%
34	1	◆	12.0%
33	0		10.0%
32	0		10.0%
31	0		10.0%
30	1	◆	10.0%
29	3	◆◆◆	8.0%
28	1	◆	2.0%
27	0		0.0%

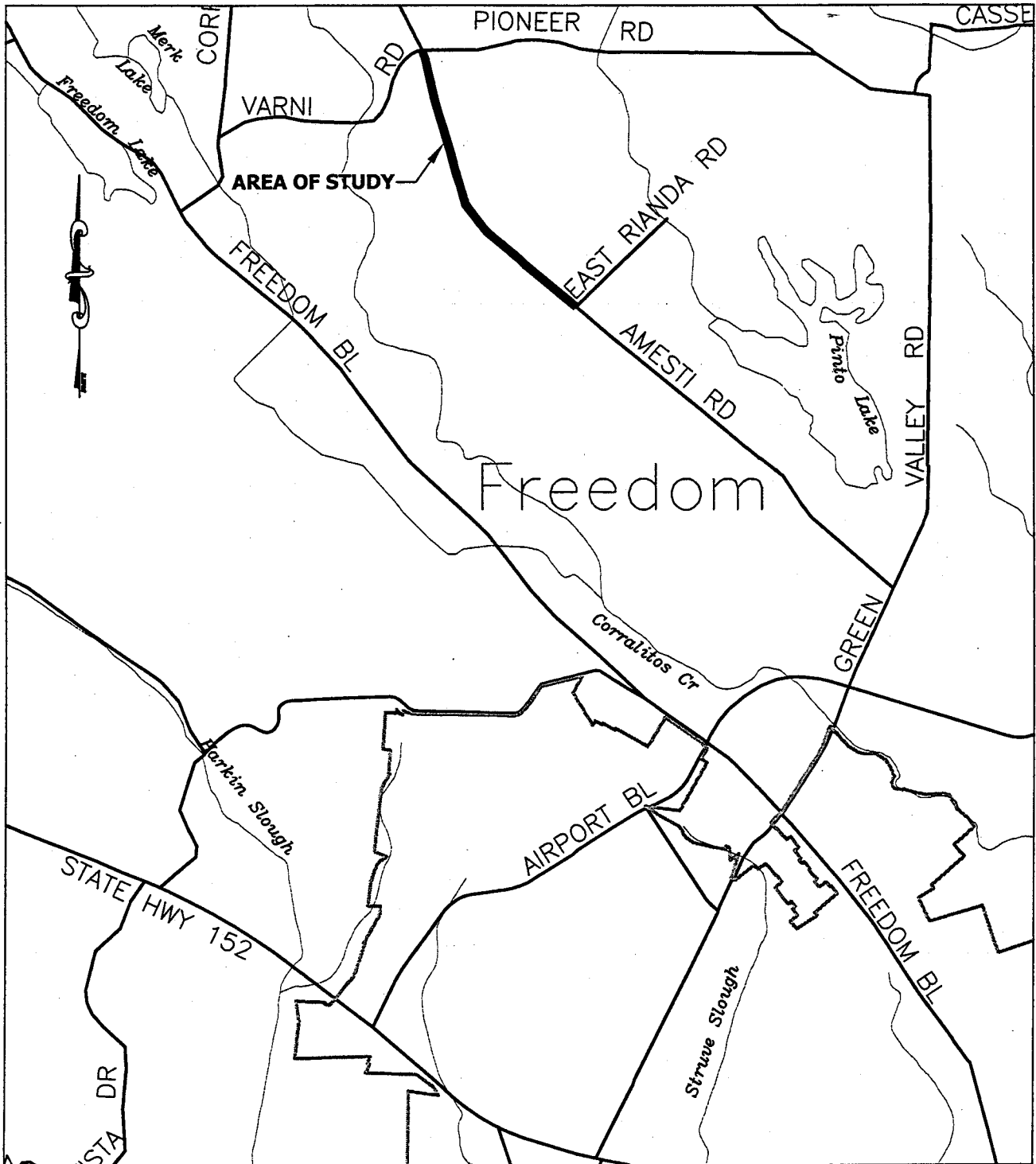
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Amesti Road	55	1	◆	100.0%
From:	East Rianda Road	54	0		98.0%
To:	.4 m. W. of Green Valley Rd	53	0		98.0%
Direction:	Eastbound	52	0		98.0%
Weather:	Overcast	51	0		98.0%
Posted Speed:	40	50	0		98.0%
Begin time:	10:35	49	0		98.0%
End time:	11:40	48	0		98.0%
		47	0		98.0%
		46	0		98.0%
		45	5	◆◆◆◆◆	98.0%
		44	2	◆◆	88.0%
		43	4	◆◆◆◆	84.0%
		42	8	◆◆◆◆◆◆◆◆	76.0%
		41	5	◆◆◆◆◆	60.0%
CRITICAL SPEED	44	40	3	◆◆◆	50.0%
AVERAGE SPEED	39.38	39	5	◆◆◆◆◆	44.0%
MEDIAN SPEED	40.5	38	1	◆	34.0%
STANDARD DEVIATION	5.42	37	5	◆◆◆◆◆	32.0%
PACE RANGE	36 - 46	36	4	◆◆◆◆	22.0%
PERCENTAGE IN PACE	84.0%	35	0		14.0%
TOTAL # OF AUTOS	50	34	0		14.0%
		33	2	◆◆	14.0%
		32	0		10.0%
		31	2	◆◆	10.0%
		30	0		6.0%
		29	1	◆	6.0%
		28	1	◆	4.0%
		27	0		2.0%
		26	0		2.0%
		25	0		2.0%
		24	0		2.0%
		23	0		2.0%
		22	0		2.0%
		21	1	◆	2.0%
		20	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION AVENUE 1 @ LAWLOR RD 20 (4 MI TO RANSO RD) BY RR
 ROAD NO 2608 DATE 4/26 DAY TUESDAY BEGIN 10:35 END 11:00
 POSTED SPEED 40 MPH WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 6% CALIBRATED YES

NUMBER OF VEHICLES				
MPH	DIRECTION 10:35 11:24 ← TO VARNI WESTBOUND	TOTAL OF EACH SPEED	DIRECTION 10:35 TO 11:40 EASTBOUND → TO GREEN VALLEY	TOTAL OF EACH SPEED
55+		3		1
54				
53				
52				
51				
50				
49		1		
48		2		
47		2		
46		1		
45		4		5
44		1		2
43		2		3
42		4		5
41		6		5
40		5		5
39		3		5
38		1		1
37		3		5
36		2		4
35		2		
34		1		
33				2
32				
31				2
30		1		
29		3		1
28		1		1
27				
26				
25				
24				
23				
22				
21				1
20-				
	TOTAL	50	TOTAL	50



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
AMESTI ROAD
EAST RIANDA RD TO VARNI RD**

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

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

LOCATION:

Amesti Road from East Rianda Road to Varni Road (Speed Data collected at Linden)

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	41 mph	44 mph
Pace Speed	32-42 mph	33-43 mph
Average Speed	35.66 mph	36.8 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH and 44 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a residential area with many intersections, private roads and driveways, bus stops, bicycle traffic without bike lanes and pedestrian traffic without sidewalks or shoulders. 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:	Amesti Road			
From:	East Rianda Rd	48	0	100.0%
To:	Varni Road	47	1 ♦	100.0%
Direction:	Westbound	46	0	98.0%
Weather:	Sunny	45	0	98.0%
Posted Speed:	35	44	2 ♦♦	98.0%
Begin time:	12:36	43	2 ♦♦	94.0%
End time:	1:19	42	1 ♦	90.0%
		41	4 ♦♦♦♦	88.0%
		40	3 ♦♦♦	80.0%
		39	2 ♦♦	74.0%
		38	3 ♦♦♦	70.0%
		37	4 ♦♦♦♦	64.0%
		36	5 ♦♦♦♦♦	56.0%
		35	3 ♦♦♦	46.0%
		34	4 ♦♦♦♦	40.0%
CRITICAL SPEED	41	33	3 ♦♦♦	32.0%
AVERAGE SPEED	35.66	32	3 ♦♦♦	26.0%
MEDIAN SPEED	36.0	31	3 ♦♦♦	20.0%
STANDARD DEVIATION	5.27	30	0	14.0%
PACE RANGE	32 - 42	29	3 ♦♦♦	14.0%
PERCENTAGE IN PACE	68.0%	28	0	8.0%
TOTAL # OF AUTOS	50	27	0	8.0%
		26	2 ♦♦	8.0%
		25	0	4.0%
		24	2 ♦♦	4.0%
		23	0	0.0%

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Amesti Road			
From:	Varni Road	48	1 ♦	100.0%
To:	East Rianda Rd	47	0	98.0%
Direction:	Eastbound	46	0	98.0%
Weather:	Sunny	45	3 ♦♦♦	98.0%
Posted Speed:	35	44	4 ♦♦♦♦	92.0%
Begin time:	12:36	43	0	84.0%
End time:	1:46	42	4 ♦♦♦♦	84.0%
		41	1 ♦	76.0%
		40	3 ♦♦♦	74.0%
		39	3 ♦♦♦	68.0%
		38	1 ♦	62.0%
		37	7 ♦♦♦♦♦♦♦	60.0%
		36	5 ♦♦♦♦♦	46.0%
		35	3 ♦♦♦	36.0%
		34	3 ♦♦♦	30.0%
CRITICAL SPEED	44	33	3 ♦♦♦	24.0%
AVERAGE SPEED	36.80	32	1 ♦	18.0%
MEDIAN SPEED	37.0	31	0	16.0%
STANDARD DEVIATION	5.56	30	1 ♦	16.0%
PACE RANGE	33 - 43	29	1 ♦	14.0%
PERCENTAGE IN PACE	66.0%	28	1 ♦	12.0%
TOTAL # OF AUTOS	50	27	3 ♦♦♦	10.0%
		26	2 ♦♦	4.0%
		25		0.0%
		24		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

RESIDENTIAL - YES

LOCATION ANESTI ROAD - @ LINDEN BY _____
 ROAD NO 2608 DATE 4/12 DAY TUESDAY BEGIN 12:36 END 1:19
 POSTED SPEED 35 MPH WEATHER clear & sunny
 NUMBER OF LANES 2 GRADE 4% CALIBRATED YES

NUMBER OF VEHICLES				
MPH	DIRECTION <i>(12:36 to 1:19) ← TO VARI WEST</i>	TOTAL OF EACH SPEED	DIRECTION <i>12:36 - 1:46 TO GREEN VALLEY EAST</i>	TOTAL OF EACH SPEED
55+				
54				
53				
52				
51				
50				
49				
48			1	1
47	1	1		
46				
45			1111	3
44	111	2	1111	4
43	11	2		
42	1	1	1111	4
41	1111	4	1	1
40	111	3	111	3
39	11	2	111	3
38	111	3	1	1
37	1111	4	1111	7
36	1111	5	111	5
35	111	3	111	3
34	1111	4	111	3
33	111	3	111	3
32	111	3	1	1
31	111	3		
30			1	1
29	111	3	1	1
28			1	1
27			111	3
26	11	2	11	2
25				
24	11	2		
23				
22				
21				
20-				
	TOTAL	50	TOTAL	50

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 (Speed Data collected at the 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	35 mph	38 mph
Pace Speed	28-38 mph	28-38 mph
Average Speed	32.2 mph	33.5 mph

ANALYSIS:

The prevailing 85th percentile speeds are 35 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are an accident record, safe stopping sight distance, numerous driveways, commute route, major arterial, intersection configurations and shoulder conditions with school children and other pedestrian traffic in the roadway without sidewalks. 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

Route: Bear Creek Road
From: Highway 9
To: Keller Drive
Direction: Northbound
Weather: Sunny
Posted Speed: 30mph
Begin time: 10:56
End time: 11:35

	<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
	38	2	◆◆	100.0%
	37	2	◆◆	96.0%
	36	2	◆◆	92.0%
	35	2	◆◆	88.0%
	34	10	◆◆◆◆◆◆◆◆◆◆	84.0%
	33	6	◆◆◆◆◆◆	64.0%
	32	6	◆◆◆◆◆◆	52.0%
	31	5	◆◆◆◆◆	40.0%
	30	8	◆◆◆◆◆◆◆◆	30.0%
	29	1	◆	14.0%
	28	4	◆◆◆◆	12.0%
	27	2	◆◆	4.0%
	26	0		0.0%
	25	0		0.0%
	24	0		0.0%
CRITICAL SPEED	35	23	0	0.0%
AVERAGE SPEED	32.24	22	0	0.0%
MEDIAN SPEED	32.0	21	0	0.0%
STANDARD DEVIATION	2.77	20	0	0.0%
PACE RANGE	28 - 38	19	0	0.0%
PERCENTAGE IN PACE	92.0%	18	0	0.0%
TOTAL # OF AUTOS	50	17	0	0.0%

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Keller Drive
To: Highway 9
Direction: Southbound
Weather: Sunny
Posted Speed: 30mph
Begin time: 10:56
End time: 11:35

CRITICAL SPEED 38
AVERAGE SPEED 33.52
MEDIAN SPEED 34.0
STANDARD DEVIATION 2.87
PACE RANGE 28 - 38
PERCENTAGE IN PACE 90.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
39	2	◆◆	100.0%
38	3	◆◆◆	96.0%
37	3	◆◆◆	90.0%
36	5	◆◆◆◆◆	84.0%
35	7	◆◆◆◆◆◆◆	74.0%
34	6	◆◆◆◆◆◆	60.0%
33	3	◆◆◆	48.0%
32	9	◆◆◆◆◆◆◆◆◆	42.0%
31	2	◆◆	24.0%
30	5	◆◆◆◆◆	20.0%
29	5	◆◆◆◆◆	10.0%
28	0		0.0%
27	0		0.0%
26	0		0.0%
25	0		0.0%
24	0		0.0%
23	0		0.0%
22	0		0.0%
21	0		0.0%
20	0		0.0%
19	0		0.0%
18	0		0.0%

RADAR SPEED SURVEY

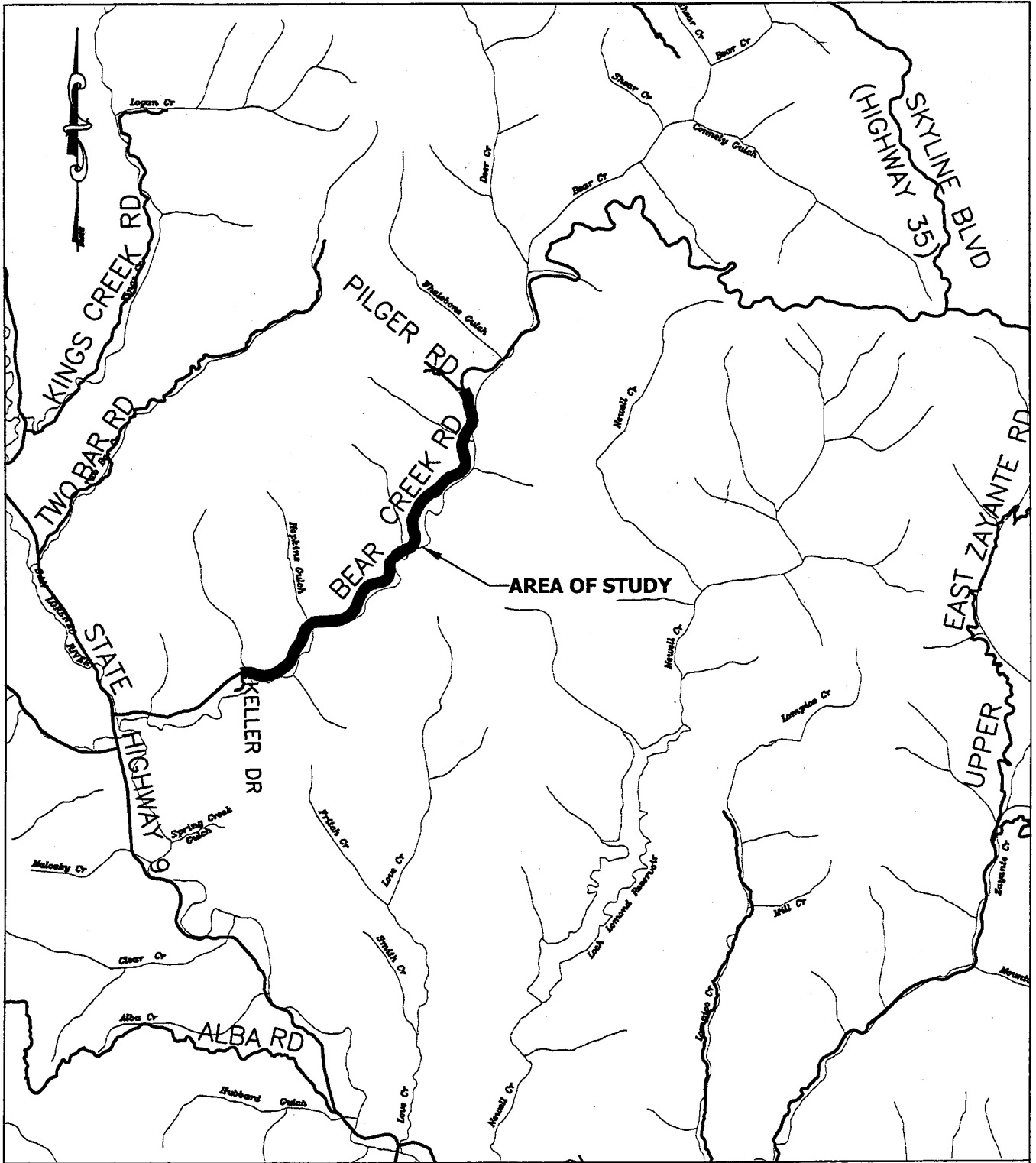
Santa Cruz County

Department of Public Works

LOCATION Bear Creek Rd @ Huckleberry Ln BY TN
 ROAD NO 33030 DATE 5/11/05 DAY Wednesday BEGIN 10:56 END 11:35
 POSTED SPEED 30 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

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



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

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

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 to Pilger Road (Speed Data collected south of Pilger Road intersection)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	46 mph	46 mph
Pace Speed	36-46 mph	37-47 mph
Average Speed	42.3 mph	42 mph

ANALYSIS:

The prevailing 85th percentile speeds are 46 MPH in both directions 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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, commute route, major arterial, 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

Route: Bear Creek Road
From: Keller Drive
To: Pilger Road
Direction: Northbound
Weather: Sunny
Posted Speed: 40mph
Begin time: 11:40
End time: 12:45

CRITICAL SPEED 46
AVERAGE SPEED 42.28
MEDIAN SPEED 43.0
STANDARD DEVIATION 4.19
PACE RANGE 36 - 46
PERCENTAGE IN PACE 82.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
53	1	◆	100.0%
52	0		98.0%
51	0		98.0%
50	1	◆	98.0%
49	2	◆◆	96.0%
48	1	◆	92.0%
47	1	◆	90.0%
46	2	◆◆	88.0%
45	5	◆◆◆◆◆	84.0%
44	10	◆◆◆◆◆◆◆◆◆◆	74.0%
43	5	◆◆◆◆◆	54.0%
42	4	◆◆◆◆	44.0%
41	2	◆◆	36.0%
40	2	◆◆	32.0%
39	1	◆	28.0%
38	4	◆◆◆◆	26.0%
37	2	◆◆	18.0%
36	6	◆◆◆◆◆◆	14.0%
35	1	◆	2.0%
34	0		0.0%
33	0		0.0%
32	0		0.0%

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Pilger Road
To: Keller Drive
Direction: Southbound
Weather: Sunny
Posted Speed: 40mph
Begin time: 11:40
End time: 12:45

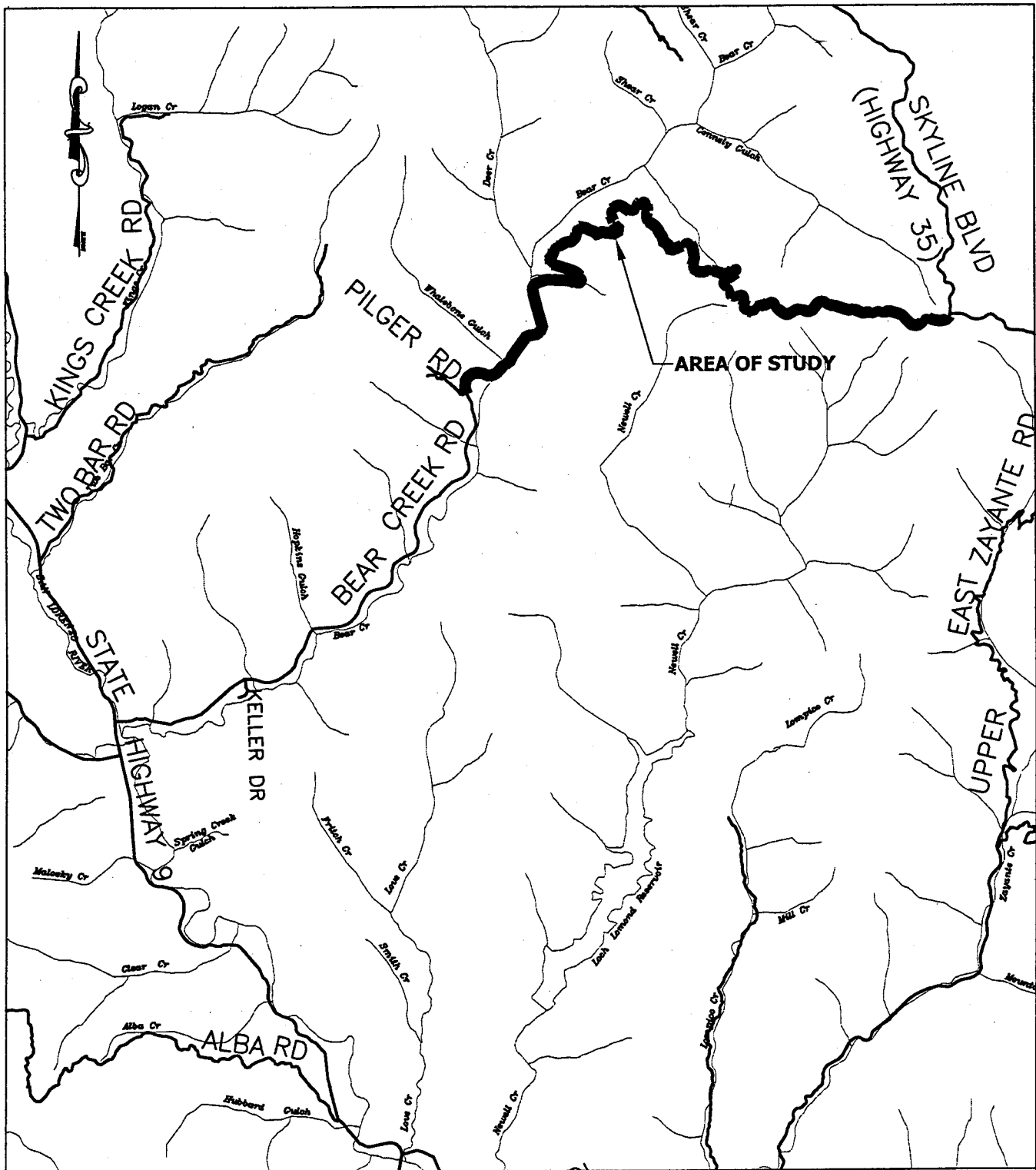
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		55	1	◆	100.0%
		54	2	◆◆	98.0%
		53	0		94.0%
		52	0		94.0%
		51	0		94.0%
		50	1	◆	94.0%
		49	0		92.0%
		48	0		92.0%
		47	0		92.0%
		46	5	◆◆◆◆◆	92.0%
		45	2	◆◆	82.0%
		44	4	◆◆◆◆	78.0%
		43	8	◆◆◆◆◆◆◆◆	70.0%
		42	6	◆◆◆◆◆◆	54.0%
		41	3	◆◆◆	42.0%
CRITICAL SPEED	46	40	4	◆◆◆◆	36.0%
AVERAGE SPEED	42.00	39	3	◆◆◆	28.0%
MEDIAN SPEED	42.0	38	4	◆◆◆◆	22.0%
STANDARD DEVIATION	4.84	37	2	◆◆	14.0%
PACE RANGE	37 - 47	36	0		10.0%
PERCENTAGE IN PACE	82.0%	35	2	◆◆	10.0%
TOTAL # OF AUTOS	50	34	1	◆	6.0%
		33	1	◆	4.0%
		32	1	◆	2.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Bear Creek Rd / South of Pilger Rd BY TN
 ROAD NO 33030 DATE 5/11/05 DAY Wed. BEGIN 11:40 END 12:45
 POSTED SPEED 40 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

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



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

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

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 Highway 35 (Speed Data collected at mile post 7.29)

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	40 mph
Pace Speed	31-41 mph	32-42 mph
Average Speed	36.1 mph	35.8 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are accident record, safe stopping sight distance, shoulder conditions, profile conditions, hairpin turns, numerous private roads and driveways, major arterial, and a commute route. 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: Bear Creek Road
From: Pilger Road
To: Highway 35
Direction: Northbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 12:52
End time: 2:05

CRITICAL SPEED 39
AVERAGE SPEED 36.14
MEDIAN SPEED 35.0
STANDARD DEVIATION 3.82
PACE RANGE 31 - 41
PERCENTAGE IN PACE 90.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
46	1	◆	100.0%
45	0		98.0%
44	3	◆◆◆	98.0%
43	0		92.0%
42	0		92.0%
41	0		92.0%
40	3	◆◆◆	92.0%
39	10	◆◆◆◆◆◆◆◆◆◆	86.0%
38	1	◆	66.0%
37	5	◆◆◆◆◆	64.0%
36	1	◆	54.0%
35	5	◆◆◆◆◆	52.0%
34	6	◆◆◆◆◆◆	42.0%
33	8	◆◆◆◆◆◆◆◆	30.0%
32	1	◆	14.0%
31	5	◆◆◆◆◆	12.0%
30	1	◆	2.0%
29	0		0.0%
28	0		0.0%
27	0		0.0%
26	0		0.0%
25	0		0.0%

RADAR SPEED SURVEY

Route: Bear Creek Road
From: Highway 35
To: Pilger Road
Direction: Southbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 12:52
End time: 2:05

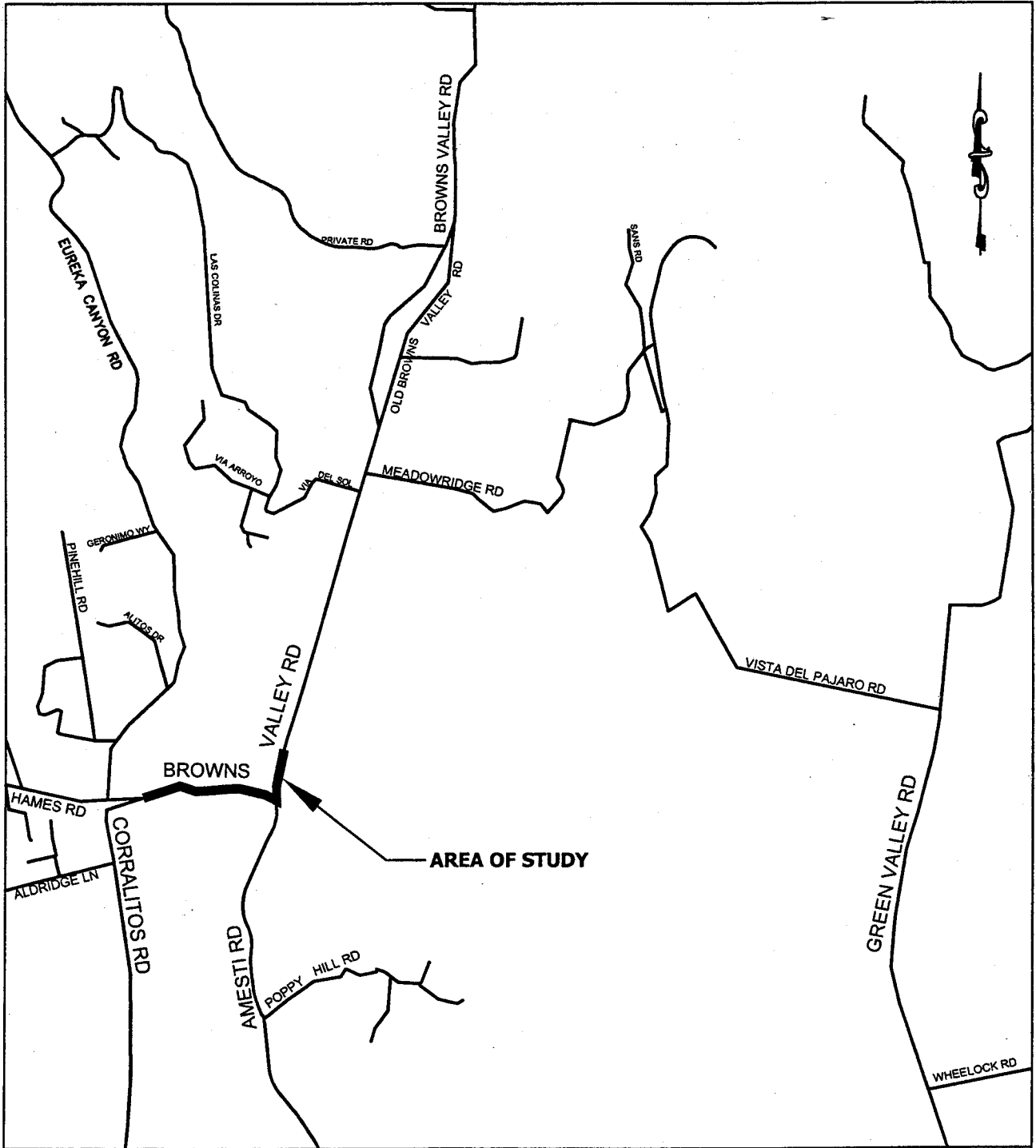
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		44	1	◆	100.0%
		43	0		98.0%
		42	1	◆	98.0%
		41	2	◆◆	96.0%
		40	4	◆◆◆◆	92.0%
		39	1	◆	84.0%
		38	2	◆◆	82.0%
		37	7	◆◆◆◆◆◆◆	78.0%
		36	12	◆◆◆◆◆◆◆◆◆◆	64.0%
		35	4	◆◆◆◆	40.0%
		34	6	◆◆◆◆◆◆	32.0%
		33	2	◆◆	20.0%
		32	4	◆◆◆◆	16.0%
		31	1	◆	8.0%
		30	1	◆	6.0%
		29	2	◆◆	4.0%
CRITICAL SPEED	40	29	2	◆◆	4.0%
AVERAGE SPEED	35.82	28	0		0.0%
MEDIAN SPEED	36.0	27	0		0.0%
STANDARD DEVIATION	3.21	26	0		0.0%
PACE RANGE	32 - 42	25	0		0.0%
PERCENTAGE IN PACE	88.0%	24	0		0.0%
TOTAL # OF AUTOS	50	23	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Bear Creek Rd @ PM 7.29 BY TN
 ROAD NO 33030 DATE 5/11/05 DAY Wed. BEGIN 12:52 END 2:05
 POSTED SPEED 35 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE < 10% CALIBRATED ✓

NUMBER OF VEHICLES

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



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

**June 2006
 Page # 26**

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

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 Corralitos Road to 1600' north of Amesti Road (Speed Data collected approximately 400' north of Amesti Road.)

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is not radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	36 mph	38 mph
Pace Speed	27-37 mph	29-39 mph
Average Speed	31.5 mph	33.9 mph

ANALYSIS:

The prevailing 85th percentile speeds are 36 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 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 25 MPH speed limit be increased to 30 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:	Browns Valley Road				
From:	Corralitos Road	45	1	◆	100.0%
To:	1600' north of Amesti Road	44	0		98.0%
Direction:	Northbound	43	2	◆◆	98.0%
Weather:	Light Clouds	42	1	◆	94.0%
Posted Speed:	25	41	0		92.0%
Begin time:	12:30	40	0		92.0%
End time:	1:20	39	0		92.0%
		38	2	◆◆	92.0%
		37	0		88.0%
		36	2	◆◆	88.0%
		35	1	◆	84.0%
		34	3	◆◆◆	82.0%
		33	2	◆◆	76.0%
		32	4	◆◆◆◆	72.0%
		31	8	◆◆◆◆◆◆◆◆	64.0%
		30	7	◆◆◆◆◆◆◆	48.0%
		29	6	◆◆◆◆◆◆	34.0%
		28	4	◆◆◆◆	22.0%
		27	2	◆◆	14.0%
		26	0		10.0%
		25	3	◆◆◆	10.0%
		24	2	◆◆	4.0%
CRITICAL SPEED	36				
AVERAGE SPEED	31.46				
MEDIAN SPEED	31.0				
STANDARD DEVIATION	4.74				
PACE RANGE	27 - 37				
PERCENTAGE IN PACE	78.0%				
TOTAL # OF AUTOS	50				

RADAR SPEED SURVEY

Route:	Browns Valley Road	<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
From:	1600' north of Amesti Road	44	1	◆	100.0%
To:	Corralitos Road	43	0		98.0%
Direction:	Southbound	42	2	◆◆	98.0%
Weather:	Light Clouds	41	1	◆	94.0%
Posted Speed:	25	40	0		92.0%
Begin time:	12:30	39	2	◆◆	92.0%
End time:	1:20	38	3	◆◆◆	88.0%
		37	2	◆◆	82.0%
		36	10	◆◆◆◆◆◆◆◆◆◆	78.0%
		35	3	◆◆◆	58.0%
		34	1	◆	52.0%
		33	5	◆◆◆◆◆	50.0%
		32	4	◆◆◆◆	40.0%
		31	6	◆◆◆◆◆◆	32.0%
		30	1	◆	20.0%
CRITICAL SPEED	38	29	3	◆◆◆	18.0%
AVERAGE SPEED	33.86	28	2	◆◆	12.0%
MEDIAN SPEED	33.5	27	3	◆◆◆	8.0%
STANDARD DEVIATION	4.25	26	1	◆	2.0%
PACE RANGE	29 - 39	25	0		0.0%
PERCENTAGE IN PACE	76.0%	24	0		0.0%
TOTAL # OF AUTOS	50	23	0		0.0%

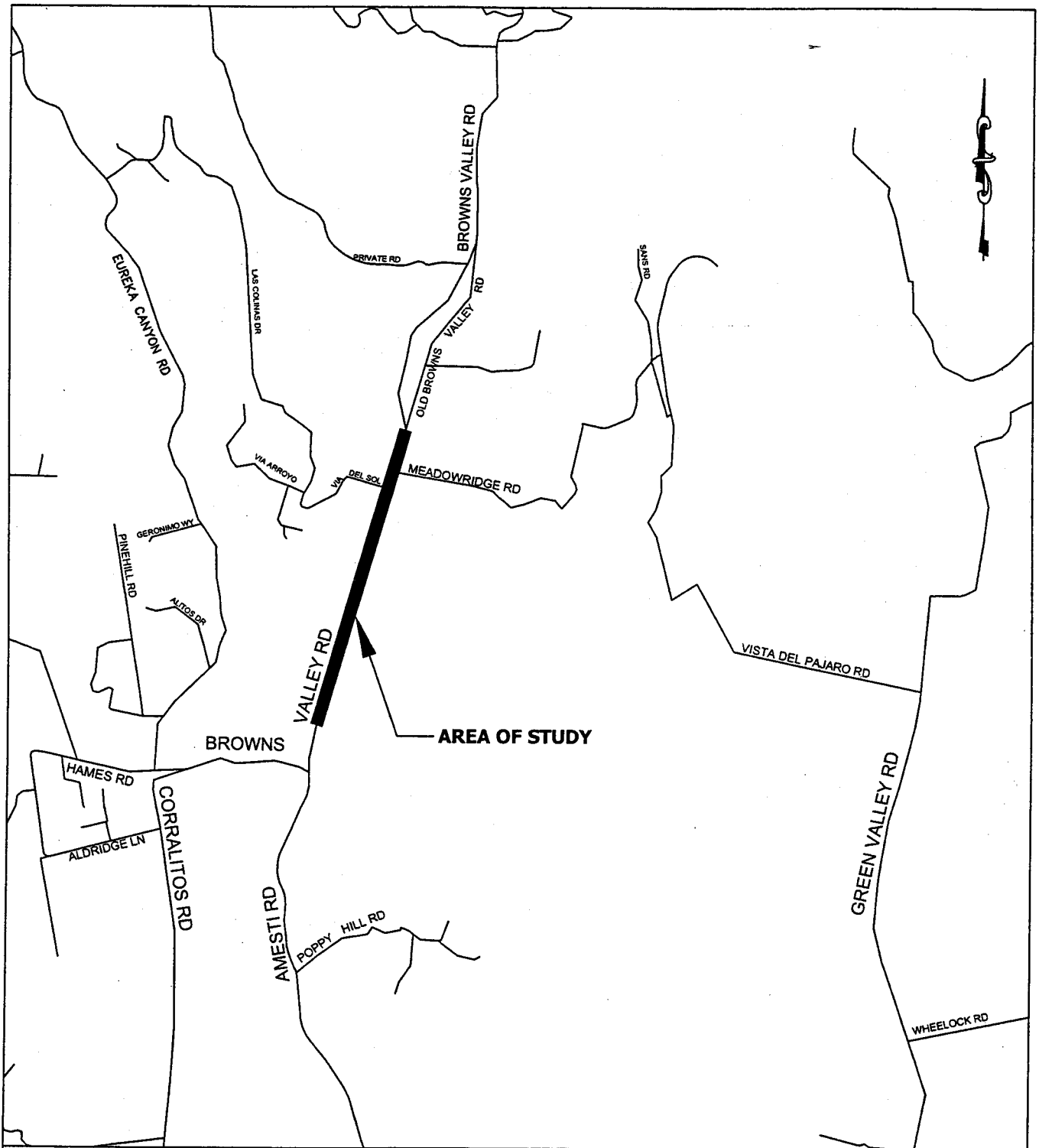
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

(400' N Awesti Rd)

LOCATION Brown Valley Rd / Corralitos Rd to 1600' N Awesti Rd BY TN
 ROAD NO 2609 DATE 12/7/05 DAY Wed BEGIN 12:30 END 1:20
 POSTED SPEED 25 mph WEATHER Light Clouds
 NUMBER OF LANES 2 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

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



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

June 2006

Page # 31

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 2900' north of Amesti Road)

PREVAILING SPEED DATA:

The existing speed limit is 40 MPH and is not radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	45 mph	45 mph
Pace Speed	36-46 mph	31-41 mph
Average Speed	39.3 mph	38.1 mph

ANALYSIS:

The prevailing 85th percentile speeds are 45 MPH in both directions 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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

Route: Browns Valley Road
From: 1600' north of Amesti Road
To: 3700' north of Amesti Road
Direction: Northbound
Weather: Light Clouds
Posted Speed: 40
Begin time: 1:30
End time: 2:35

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>
	49	1	◆	100.0%
	48	2	◆◆	98.0%
	47	2	◆◆	94.0%
	46	2	◆◆	90.0%
	45	1	◆	86.0%
	44	4	◆◆◆◆	84.0%
	43	1	◆	76.0%
	42	1	◆	74.0%
	41	2	◆◆	72.0%
	40	6	◆◆◆◆◆◆	68.0%
	39	3	◆◆◆	56.0%
	38	7	◆◆◆◆◆◆◆	50.0%
	37	6	◆◆◆◆◆◆	36.0%
	36	3	◆◆◆	24.0%
	35	1	◆	18.0%
	34	1	◆	16.0%
	33	2	◆◆	14.0%
	32	3	◆◆◆	10.0%
	31	2	◆◆	4.0%
	30	0		0.0%
	29	0		0.0%
	28	0		0.0%
	45			
	39.30			
	38.5			
	4.75			
	36 - 46			
	68.0%			
	50			

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Browns Valley Road				
From:	3700' north of Amesti Road	51	1	◆	100.0%
To:	1600' north of Amesti Road	50	1	◆	98.0%
Direction:	Southbound	49	2	◆◆	96.0%
Weather:	Light Clouds	48	1	◆	92.0%
Posted Speed:	40 mph	47	1	◆	90.0%
Begin time:	1:30	46	0		88.0%
End time:	2:35	45	2	◆◆	88.0%
		44	1	◆	84.0%
		43	2	◆◆	82.0%
		42	1	◆	78.0%
		41	0		76.0%
		40	3	◆◆◆	76.0%
		39	6	◆◆◆◆◆◆	70.0%
		38	3	◆◆◆	58.0%
		37	5	◆◆◆◆◆	52.0%
		36	1	◆	42.0%
CRITICAL SPEED	45	35	9	◆◆◆◆◆◆◆◆◆	40.0%
AVERAGE SPEED	38.08	34	2	◆◆	22.0%
MEDIAN SPEED	37.0	33	2	◆◆	18.0%
STANDARD DEVIATION	5.68	32	0		14.0%
PACE RANGE	31 - 41	31	3	◆◆◆	14.0%
PERCENTAGE IN PACE	68.0%	30	2	◆◆	8.0%
TOTAL # OF AUTOS	50				

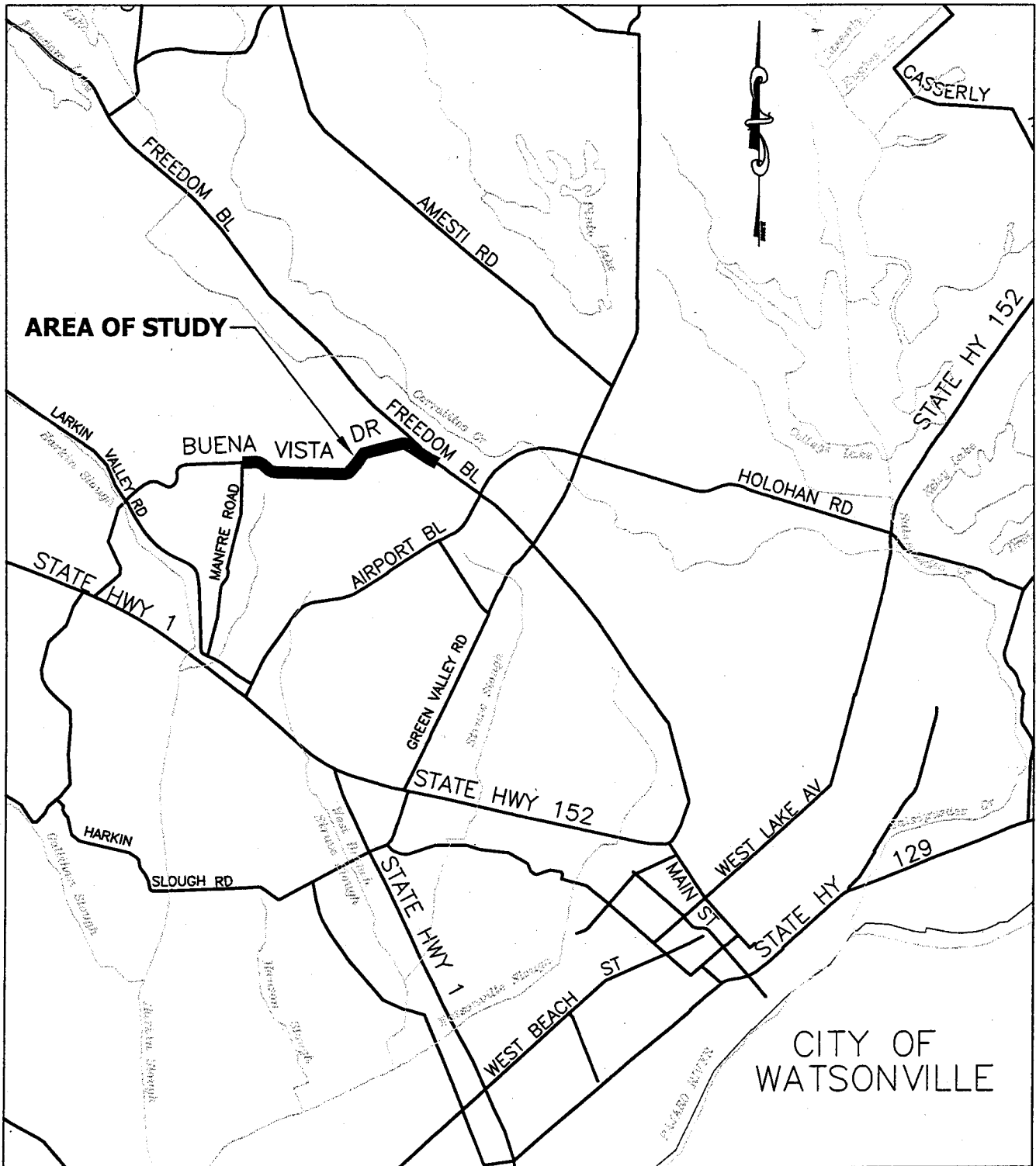
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

(252 Browns Valley Rd)

LOCATION Browns Valley Rd / 1600' N. Amest Rd - 0.7 mi N. Amest; BY TN
 ROAD NO 2609 DATE 12/7/05 DAY Wed BEGIN 1:30 END 2:35
 POSTED SPEED 40 mph WEATHER Light clouds
 NUMBER OF LANES 2 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

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



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 BUENA VISTA ROAD
 MANFRE RD TO FREEDOM BLVD**

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

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

LOCATION:

Buena Vista Drive between Manfre Road and Freedom Boulevard. (Speed Data collected at Bowker Road)

PREVAILING SPEED DATA:

The existing posted speed limit is 25 MPH and is not radar enforced.

The prevailing speeds are:

Direction	Eastbound	Westbound
85 th Percentile	37 mph	35 mph
Pace Speed	28-38 mph	27-37 mph
Average Speed	32.38 mph	30.34 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are a prima-facie residential district, limited sight distance, high volume of traffic, pedestrians in the roadway without sidewalks, a route to and from area schools and multiple intersecting side streets. It is recommended that the existing 25 MPH speed limit be increased to 30 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Buena Vista Drive
From: Freedom Blvd.
To: Manfre Rd.
Direction: Westbound
Weather: Overcast
Posted Speed: 25
Begin time: 10:10
End time: 11:25

CRITICAL SPEED 35
AVERAGE SPEED 30.32
MEDIAN SPEED 31.0
STANDARD DEVIATION 5.16
PACE RANGE 27 - 37
PERCENTAGE IN PACE 72.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
42	1	◆	100.0%
41	0		98.0%
40	1	◆	98.0%
39	0		96.0%
38	1	◆	96.0%
37	0		94.0%
36	3	◆◆◆	94.0%
35	4	◆◆◆◆	88.0%
34	4	◆◆◆◆	80.0%
33	4	◆◆◆◆	72.0%
32	4	◆◆◆◆	64.0%
31	4	◆◆◆◆	56.0%
30	8	◆◆◆◆◆◆◆◆	48.0%
29	2	◆◆	32.0%
28	1	◆	28.0%
27	2	◆◆	26.0%
26	0		22.0%
25	3	◆◆◆	22.0%
24	1	◆	16.0%
23	1	◆	14.0%
22	2	◆◆	12.0%
21	2	◆◆	8.0%
20	2	◆◆	4.0%
19	0		0.0%
18	0		0.0%

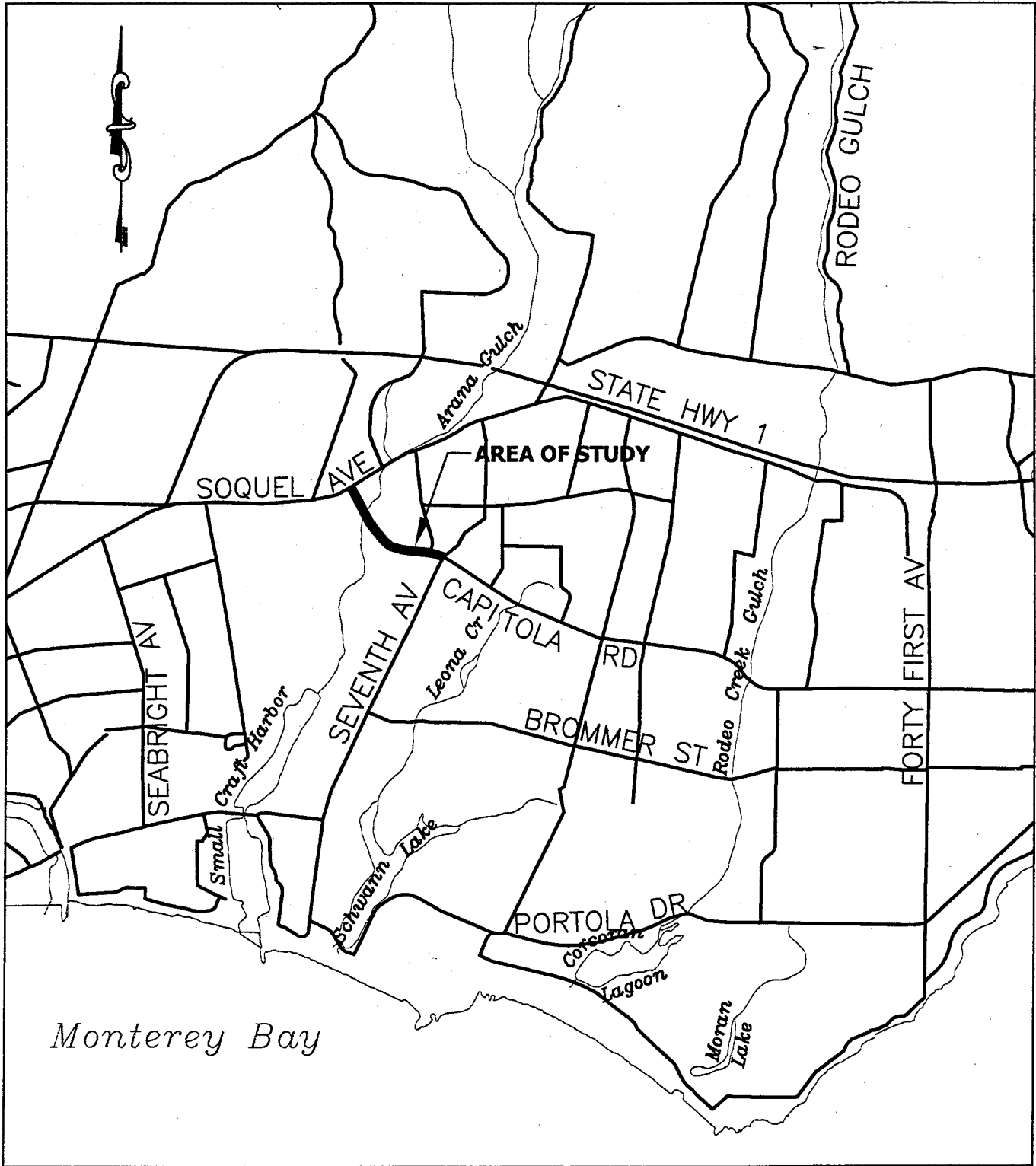
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Buena Vista Drive				
From:	Manfre Rd.	44	1	◆	100.0%
To:	Freedom Blvd.	43	0		98.0%
Direction:	Eastbound	42	0		98.0%
Weather:	Overcast	41	1	◆	98.0%
Posted Speed:	25	40	0		96.0%
Begin time:	10:10	39	1	◆	96.0%
End time:	11:00	38	1	◆	94.0%
		37	6	◆◆◆◆◆◆	92.0%
		36	3	◆◆◆	80.0%
		35	3	◆◆◆	74.0%
		34	4	◆◆◆◆	68.0%
		33	6	◆◆◆◆◆◆	60.0%
		32	4	◆◆◆◆	48.0%
		31	3	◆◆◆	40.0%
		30	4	◆◆◆◆	34.0%
CRITICAL SPEED	37	29	4	◆◆◆◆	26.0%
AVERAGE SPEED	32.38	28	2	◆◆	18.0%
MEDIAN SPEED	33.0	27	2	◆◆	14.0%
STANDARD DEVIATION	4.55	26	2	◆◆	10.0%
PACE RANGE	28 - 38	25	1	◆	6.0%
PERCENTAGE IN PACE	78.0%	24	1	◆	4.0%
TOTAL # OF AUTOS	50	23	0		2.0%
		22	0		2.0%
		21	0		2.0%
		20	1	◆	2.0%
		19	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION BUENA VISTA - MANIZALES TO FREEDOM BLVD (ROWLEY) BY RR
 ROAD NO 1502 DATE 4/12/05 DAY TUESDAY BEGIN 10:10 END 11:25
 POSTED SPEED 25 MPH WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 4% CALIBRATED YES

NUMBER OF VEHICLES			
MPH	DIRECTION	TOTAL	TOTAL
	TO FREEWAY ^{10:10-11:25} SOUTHBOUND	OF EACH SPEED	DIRECTION TO FREEDOM BLVD ^{10:10-11:00} NORTHBOUND
55+			
54			
53			
52			
51			
50			
49			
48			
47			
46			
45			
44			1
43			
42	1	1	
41			1
40	1	1	
39			1
38	1	1	1
37			6
36	///	3	///
35	///	4	///
34	///	4	///
33	///	4	6
32	///	4	///
31	///	4	///
30	///	3	///
29	///	2	///
28	1	1	///
27	///	2	///
26			///
25	///	3	1
24	1	1	1
23	1	1	
22	///	2	
21	///	2	
20	1	2	1
TOTAL		50	TOTAL 50



Monterey Bay

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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 at 800 ft south of Soquel Avenue)

PREVAILING SPEED DATA:

The existing speed limit is 35 mph and is not radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	39 mph	40 mph
Pace Speed	31-41 mph	32-42 mph
Average Speed	34.6 mph	36.26 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are limited sight distance for intersecting streets and driveways due to horizontal and vertical curves. 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:	Capitola Road			
From:	7th Avenue	52	0	100.0%
To:	Soquel Avenue	51	0	100.0%
Direction:	Westbound	50	0	100.0%
Weather:	Sunny	49	0	100.0%
Posted Speed:	35	48	0	100.0%
Begin time:	10:45	47	0	100.0%
End time:	10:54	46	0	100.0%
		45	1 ♦	100.0%
		44	1 ♦	98.2%
		43	1 ♦	96.5%
		42	2 ♦♦	94.7%
		41	0	91.2%
		40	2 ♦♦	91.2%
		39	2 ♦♦	87.7%
		38	1 ♦	84.2%
CRITICAL SPEED	39	37	5 ♦♦♦♦♦	82.5%
AVERAGE SPEED	34.60	36	5 ♦♦♦♦♦	73.7%
MEDIAN SPEED	35.0	35	9 ♦♦♦♦♦♦♦♦♦	64.9%
STANDARD DEVIATION	4.13	34	4 ♦♦♦♦	49.1%
PACE RANGE	31 - 41	33	9 ♦♦♦♦♦♦♦♦♦	42.1%
PERCENTAGE IN PACE	78.9%	32	4 ♦♦♦♦	26.3%
TOTAL # OF AUTOS	57	31	4 ♦♦♦♦	19.3%
		30	0	12.3%
		29	3 ♦♦♦	12.3%
		28	1 ♦	7.0%
		27	2 ♦♦	5.3%
		26	1 ♦	1.8%
		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

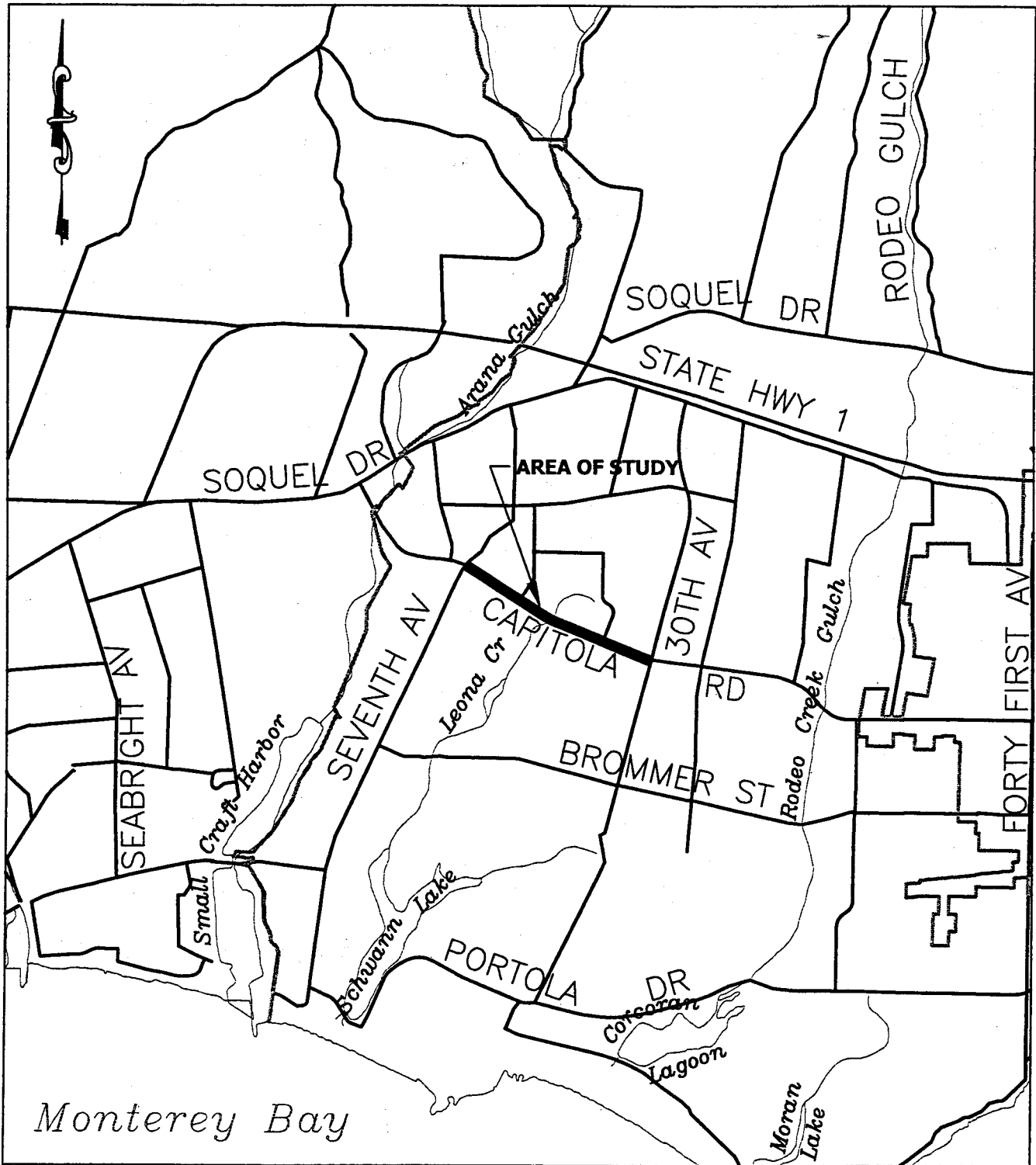
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Capitola Road			
From:	Soquel Avenue	52	0	100.0%
To:	7th Avenue	51	0	100.0%
Direction:	Eastbound	50	0	100.0%
Weather:	Sunny	49	0	100.0%
Posted Speed:	35	48	0	100.0%
Begin time:	10:45	47	0	100.0%
End time:	10:54	46	0	100.0%
		45	0	100.0%
		44	0	100.0%
		43	0	100.0%
		42	3	100.0%
		41	5	95.6%
		40	7	88.2%
		39	0	77.9%
		38	7	77.9%
CRITICAL SPEED	40	37	9	67.6%
AVERAGE SPEED	36.26	36	6	54.4%
MEDIAN SPEED	36.0	35	10	45.6%
STANDARD DEVIATION	3.07	34	11	30.9%
PACE RANGE	32 - 42	33	1	14.7%
PERCENTAGE IN PACE	91.2%	32	6	13.2%
TOTAL # OF AUTOS	68	31	1	4.4%
		30	2	2.9%
		29	0	0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION CAPITOLA RD SOQUEL AVE - 7TH BY GM
 ROAD NO 2411 DATE 4/19/05 DAY TH BEGIN 10:45 END 10:54
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 1 GRADE 8% CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION SOQUEL - 7TH	TOTAL OF EACH SPEED	DIRECTION 7TH - SOQUEL	TOTAL OF EACH SPEED
55+				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45			/	1
44			/	1
43			/	1
42	///	3	//	2
41	////	5		0
40	//////	7	//	2
39		0	//	2
38	//////	7	/	1
37	////////	9	//////	5
36	////////	6	//////	5
35	//////////	10	//////////	9
34	//////////	11	//////	4
33	/	1	//////////	9
32	//////	6	//////	4
31	/	1	//////	4
30	//	2		0
29			///	3
28			/	1
27			//	2
26			/	1
25				
24				
23				
22				
21				
20-				
	TOTAL	68	TOTAL	57



Monterey Bay

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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 Fifteenth Avenue)

PREVAILING SPEED DATA:

The existing speed limit is 35 mph and is not radar enforced.

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	35 mph	34 mph
Pace Speed	27-37 mph	27-37 mph
Average Speed	31.2 mph	31.3 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 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are schools in close proximity, unprotected school crossings, numerous driveways and side streets, and an accident record. It is recommended that the existing 35 MPH speed limit decrease to 30 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:	Capitola Road				
From:	30th Avenue	38	0		100.0%
To:	7th Avenue	37	1	◆	100.0%
Direction:	Westbound	36	4	◆◆◆◆	98.2%
Weather:	Sunny	35	5	◆◆◆◆◆	91.1%
Posted Speed:	35	34	4	◆◆◆◆	82.1%
Begin time:	11:18 AM	33	3	◆◆◆	75.0%
End time:	11:45 AM	32	7	◆◆◆◆◆◆◆	69.6%
		31	7	◆◆◆◆◆◆◆	57.1%
		30	10	◆◆◆◆◆◆◆◆◆◆	44.6%
		29	6	◆◆◆◆◆◆	26.8%
		28	3	◆◆◆	16.1%
		27	3	◆◆◆	10.7%
		26	2	◆◆	5.4%
		25	1	◆	1.8%
		24	0		0.0%
CRITICAL SPEED	35	23	0		0.0%
AVERAGE SPEED	31.21	22	0		0.0%
MEDIAN SPEED	31.0	21	0		0.0%
STANDARD DEVIATION	2.90	20	0		0.0%
PACE RANGE	27 - 37	19	0		0.0%
PERCENTAGE IN PACE	92.9%	18	0		0.0%
TOTAL # OF AUTOS	56	17	0		0.0%
		16	0		0.0%

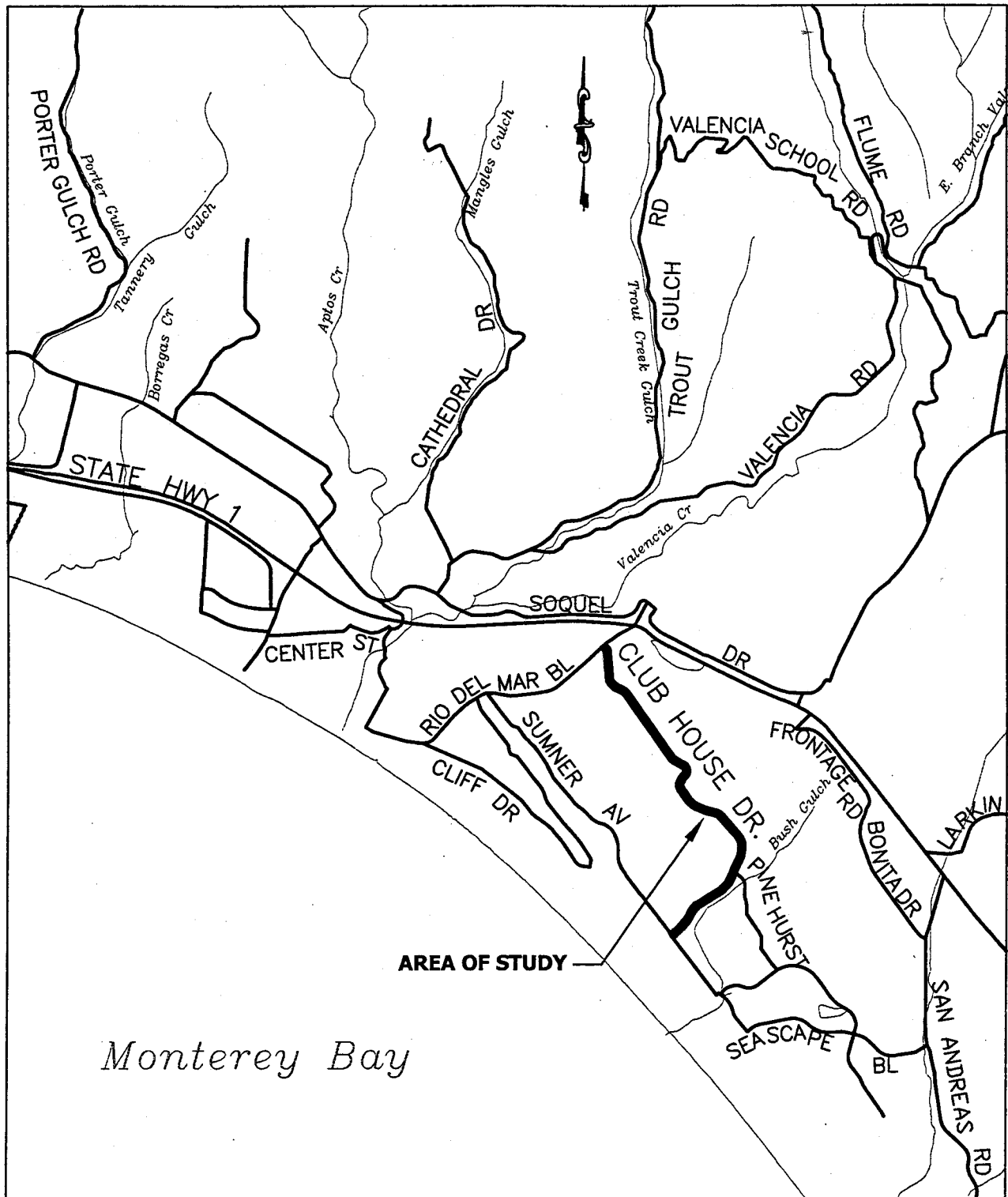
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Capitola Road			
From:	7th Avenue	43	0	100.0%
To:	30th Avenue	42	0	100.0%
Direction:	Eastbound	41	0	100.0%
Weather:	Sunny	40	1 ◆	100.0%
Posted Speed:	35	39	0	98.2%
Begin time:	11:18 AM	38	0	98.2%
End time:	11:45 AM	37	2 ◆◆	98.2%
		36	0	94.7%
		35	4 ◆◆◆◆	94.7%
		34	7 ◆◆◆◆◆◆◆	87.7%
		33	6 ◆◆◆◆◆◆	75.4%
		32	3 ◆◆◆	64.9%
		31	9 ◆◆◆◆◆◆◆◆◆	59.6%
		30	13 ◆◆◆◆◆◆◆◆◆◆◆◆	43.9%
		29	1 ◆	21.1%
CRITICAL SPEED	34	28	5 ◆◆◆◆◆	19.3%
AVERAGE SPEED	31.25	27	4 ◆◆◆◆	10.5%
MEDIAN SPEED	31.0	26	0	3.5%
STANDARD DEVIATION	3.03	25	1 ◆	3.5%
PACE RANGE	27 - 37	24	1 ◆	1.8%
PERCENTAGE IN PACE	91.2%	23	0	0.0%
TOTAL # OF AUTOS	57	22	0	0.0%
		21		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION CAPITOLA RD 7TH - 30TH LOLA BY GJM
 ROAD NO 2411 DATE 4/14/05 DAY TH BEGIN 11:18 END 11:45
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 1 GRADE 3% CALIBRATED Y

NUMBER OF VEHICLES				
MPH	DIRECTION <u>7TH - 30TH</u>	TOTAL OF EACH SPEED	DIRECTION <u>17TH - 30TH</u>	TOTAL OF EACH SPEED
55+				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40	/	1		
39		0		
38		0		
37	//	2	/	1
36		0	////	4
35	///	4	///	5
34	////	7	///	4
33	////	6	///	3
32	///	3	////	7
31	////	9	////	7
30	////	13	////	10
29	/	1	////	6
28	///	5	///	3
27	///	4	///	3
26		0	///	2
25	/	1	/	1
24	/	1		
23				
22				
21				
20-				
	TOTAL	57	TOTAL	56



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

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

PURPOSE:

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

LOCATION:

Clubhouse Drive from Rio Del Mar Boulevard to Sumner Avenue (Speed Data collected south of Pinehurst Drive intersection)

PREVAILING SPEED DATA:

The existing speed limit is 25 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	30.6 mph	30.6 mph

ANALYSIS:

The prevailing 85th percentile speeds are 34 MPH for 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are prima facie residential district, accident record, close proximity to an elementary school, adjacent golf course with cart crossing and shoulder conditions with school children and other pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit remain as posted with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Clubhouse Drive
From: Rio Del Mar Boulevard
To: Sumner Ave
Direction: Northbound
Weather: Sunny
Posted Speed: 25mph
Begin time: 10:20
End time: 11:30

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
38	1	◆	100.0%
37	3	◆◆◆	98.0%
36	1	◆	92.0%
35	2	◆◆	90.0%
34	4	◆◆◆◆	86.0%
33	3	◆◆◆	78.0%
32	5	◆◆◆◆◆	72.0%
31	3	◆◆◆	62.0%
30	6	◆◆◆◆◆◆	56.0%
29	8	◆◆◆◆◆◆◆◆	44.0%
28	5	◆◆◆◆◆	28.0%
27	5	◆◆◆◆◆	18.0%
26	0		8.0%
25	2	◆◆	8.0%
24	2	◆◆	4.0%
23	0		0.0%
22	0		0.0%
21	0		0.0%
20	0		0.0%
19	0		0.0%
18	0		0.0%
17	0		0.0%

CRITICAL SPEED	34
AVERAGE SPEED	30.56
MEDIAN SPEED	30.0
STANDARD DEVIATION	3.47
PACE RANGE	27 - 37
PERCENTAGE IN PACE	84.0%
TOTAL # OF AUTOS	50

RADAR SPEED SURVEY

Route: Clubhouse Drive
From: Sumner Ave
To: Rio Del Mar Boulevard
Direction: Southbound
Weather: Sunny
Posted Speed: 25mph
Begin time: 10:20
End time: 11:30

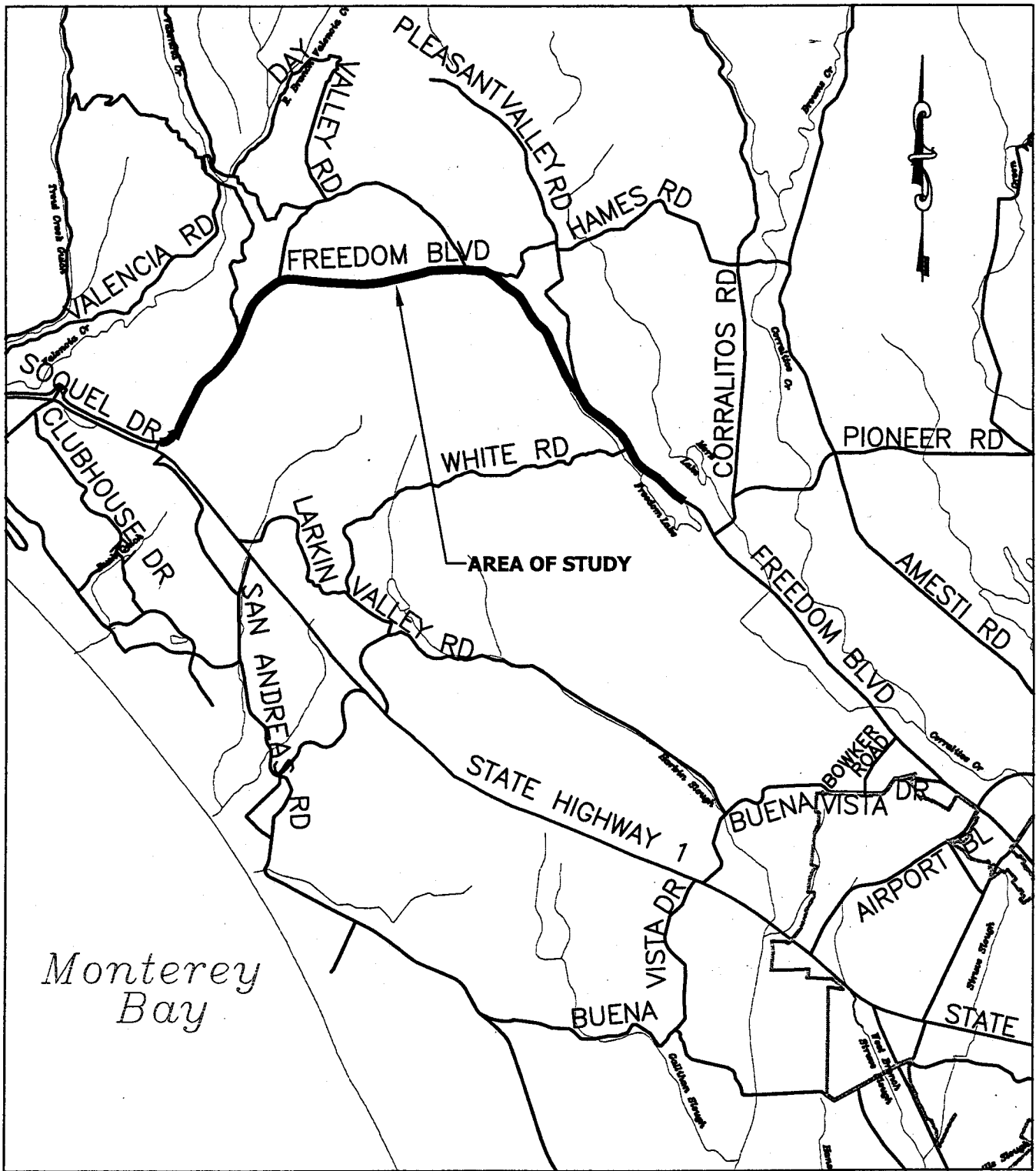
CRITICAL SPEED 34
AVERAGE SPEED 30.58
MEDIAN SPEED 30.0
STANDARD DEVIATION 3.81
PACE RANGE 27 - 37
PERCENTAGE IN PACE 86.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
42	1	◆	100.0%
41	0		98.0%
40	0		98.0%
39	0		98.0%
38	0		98.0%
37	0		98.0%
36	2	◆◆	98.0%
35	3	◆◆◆	94.0%
34	6	◆◆◆◆◆◆	88.0%
33	7	◆◆◆◆◆◆◆	76.0%
32	2	◆◆	62.0%
31	3	◆◆◆	58.0%
30	4	◆◆◆◆	52.0%
29	9	◆◆◆◆◆◆◆◆◆	44.0%
28	2	◆◆	26.0%
27	5	◆◆◆◆◆	22.0%
26	2	◆◆	12.0%
25	1	◆	8.0%
24	1	◆	6.0%
23	1	◆	4.0%
22	1	◆	2.0%
21	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Clubhouse Rd - from Rio Del Mar Blvd to Summer Ave BY TN
 ROAD NO 25010 DATE 4/21/05 DAY Thursday BEGIN 10:20 END 11:30
 POSTED SPEED 25 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE <5% CALIBRATED

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	North (To Rio Del Mar Blvd)		South (To Summer)	
55+				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				1
41				
40				
39				
38		1		
37		3		
36		1		2
35		2		3
34		4		6
33		3		7
32		5		2
31		3		3
30		6		4
29		8		9
28		5		2
27		5		5
26				2
25		2		1
24		2		1
23				1
22				1
21				
20-				
	TOTAL	50	TOTAL	60



Monterey Bay

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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 mi west of Corralitos Road (Speed Data collected near the Valencia Road intersection)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	50 mph	54 mph
Pace Speed	43-53 mph	44-54 mph
Average Speed	47.4 mph	49.7 mph

ANALYSIS:

The prevailing 85th percentile speeds are 50 MPH and 54 MPH depending on the direction 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 45 MPH. The factors justifying a further reduction are an accident record, safe stopping sight distance, numerous driveways, intersection configurations and shoulder conditions with school children and other pedestrian traffic 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

Route: Freedom Boulevard
From: Corralitos Road
To: Soquel Dr.
Direction: Westbound
Weather: Sunny
Posted Speed: 45
Begin time: 1:20
End time: 2:40

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		55	2	◆◆	100.0%
		54	0		96.0%
		53	1	◆	96.0%
		52	1	◆	94.0%
		51	2	◆◆	92.0%
		50	8	◆◆◆◆◆◆◆◆	88.0%
		49	5	◆◆◆◆◆	72.0%
		48	3	◆◆◆	62.0%
		47	5	◆◆◆◆◆	56.0%
		46	9	◆◆◆◆◆◆◆◆◆	46.0%
		45	3	◆◆◆	28.0%
		44	8	◆◆◆◆◆◆◆◆	22.0%
		43	3	◆◆◆	6.0%
		42	0		0.0%
		41	0		0.0%
CRITICAL SPEED	50	40	0		0.0%
AVERAGE SPEED	47.42	39	0		0.0%
MEDIAN SPEED	47.0	38	0		0.0%
STANDARD DEVIATION	3.02	37	0		0.0%
PACE RANGE	43 - 53	36	0		0.0%
PERCENTAGE IN PACE	94.0%	35	0		0.0%
TOTAL # OF AUTOS	50	34	0		0.0%

RADAR SPEED SURVEY

Route: Freedom Boulevard
From: Soquel Dr.
To: Corralitos Road
Direction: Eastbound
Weather: Sunny
Posted Speed: 45
Begin time: 1:20
End time: 2:40

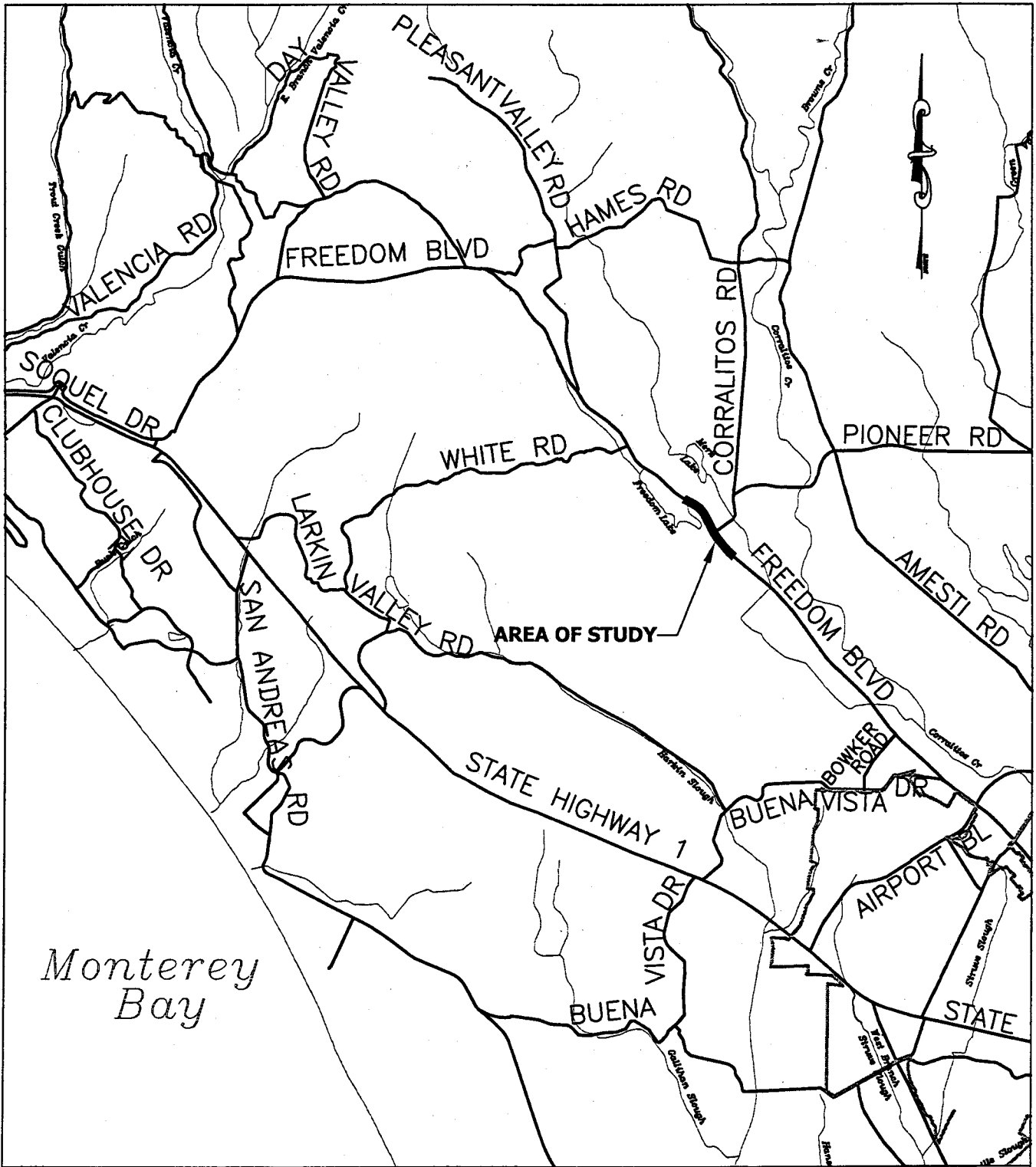
CRITICAL SPEED 54
AVERAGE SPEED 49.68
MEDIAN SPEED 49.0
STANDARD DEVIATION 2.99
PACE RANGE 44 - 54
PERCENTAGE IN PACE 86.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
55	5	◆◆◆◆◆	100.0%
54	2	◆◆	90.0%
53	5	◆◆◆◆◆	86.0%
52	2	◆◆	76.0%
51	2	◆◆	72.0%
50	7	◆◆◆◆◆◆◆	68.0%
49	8	◆◆◆◆◆◆◆◆	54.0%
48	5	◆◆◆◆◆	38.0%
47	7	◆◆◆◆◆◆◆	28.0%
46	4	◆◆◆◆	14.0%
45	3	◆◆◆	6.0%
44	0		0.0%
43	0		0.0%
42	0		0.0%
41	0		0.0%
40	0		0.0%
39	0		0.0%
38	0		0.0%
37	0		0.0%
36	0		0.0%
35	0		0.0%
34	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works (Near Valencia Rd intersection)

LOCATION Freedom Blvd from Soquel Dr - Corralitos Rd BY TN
 ROAD NO 2504 DATE 4/21/05 DAY Thursday BEGIN 1:20 END 2:40
 POSTED SPEED 45 WEATHER Sunny
 NUMBER OF LANES 2 GRADE <5% CALIBRATED

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	East (to Corralitos Rd)		West (to Soquel Dr)	
55+		5		2
54		2		
53		5		1
52		2		1
51		2		2
50		7		8
49		8		5
48		5		3
47		7		5
46		4		9
45		3		3
44				8
43				3
42				
41				
40				
39				
38				
37				
36				
35				
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		50	TOTAL 50	



Monterey Bay

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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 mi west of Corralitos Road to 0.2 mi east of Corralitos Road (Speed Data collected west of Corralitos Road intersection.)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	46 mph	47 mph
Pace Speed	38-48 mph	39-49 mph
Average Speed	43.1 mph	44.2 mph

ANALYSIS:

The prevailing 85th percentile speeds are 46 MPH and 47 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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, bike lanes, commercial driveways, and pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 35 MPH speed limit be increased to 40 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:	Freedom Boulevard				
From:	0.2mi East of Corralitos Rd	55	1	◆	100.0%
To:	0.3mi West of Corralitos Rd	54	0		98.0%
Direction:	Westbound	53	0		98.0%
Weather:	Sunny	52	0		98.0%
Posted Speed:	35	51	1	◆	98.0%
Begin time:	2:53	50	0		96.0%
End time:	3:25	49	1	◆	96.0%
		48	0		94.0%
		47	4	◆◆◆◆	94.0%
		46	7	◆◆◆◆◆◆◆	86.0%
		45	3	◆◆◆	72.0%
		44	4	◆◆◆◆	66.0%
		43	5	◆◆◆◆◆	58.0%
		42	10	◆◆◆◆◆◆◆◆◆◆	48.0%
		41	3	◆◆◆	28.0%
CRITICAL SPEED	46	40	4	◆◆◆◆	22.0%
AVERAGE SPEED	43.14	39	2	◆◆	14.0%
MEDIAN SPEED	43.0	38	3	◆◆◆	10.0%
STANDARD DEVIATION	3.68	37	0		4.0%
PACE RANGE	38 - 48	36	1	◆	4.0%
PERCENTAGE IN PACE	90.0%	35	1	◆	2.0%
TOTAL # OF AUTOS	50	34	0		0.0%

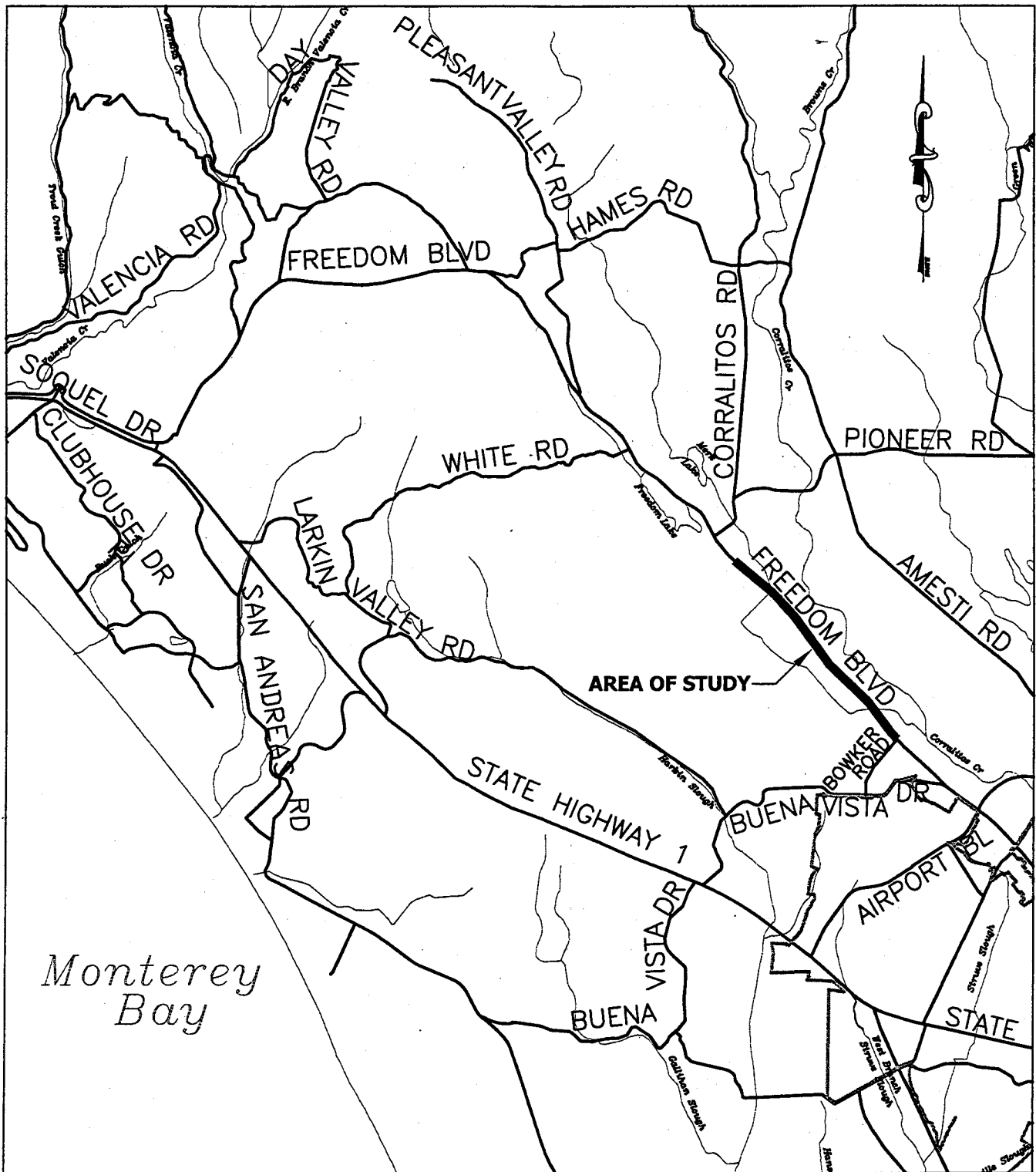
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard	55	1	◆	100.0%
From:	0.3mi West of Corralitos Rd	54	0		98.0%
To:	0.2mi East of Corralitos Rd	53	0		98.0%
Direction:	Eastbound	52	0		98.0%
Weather:	Sunny	51	0		98.0%
Posted Speed:	35	50	0		98.0%
Begin time:	2:53	49	1	◆	98.0%
End time:	3:25	48	4	◆◆◆◆	96.0%
		47	6	◆◆◆◆◆◆	88.0%
		46	7	◆◆◆◆◆◆◆	76.0%
		45	5	◆◆◆◆◆	62.0%
		44	6	◆◆◆◆◆◆	52.0%
		43	6	◆◆◆◆◆◆	40.0%
		42	5	◆◆◆◆◆	28.0%
		41	1	◆	18.0%
CRITICAL SPEED	47	40	1	◆	16.0%
AVERAGE SPEED	44.18	39	5	◆◆◆◆◆	14.0%
MEDIAN SPEED	44.0	38	2	◆◆	4.0%
STANDARD DEVIATION	3.33	37	0		0.0%
PACE RANGE	39 - 49	36	0		0.0%
PERCENTAGE IN PACE	92.0%	35	0		0.0%
TOTAL # OF AUTOS	50	34	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Freedom Blvd 0.3 mi West of Corralitos Rd intersection BY TN
 ROAD NO 2504 DATE 4/21/05 DAY Thursday BEGIN 2:53 END 3:25
 POSTED SPEED 35 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE <5% CALIBRATED

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	<u>East (to Corralitos Rd)</u>		<u>West (to Soquel Dr)</u>	
55+		1		1
54				
53				
52				
51				1
50				
49		1		1
48		4		
47		6		4
46		7		7
45		5		3
44		6		4
43		6		5
42		5		10
41		1		3
40		1		4
39		5		2
38		2		3
37				
36				1
35				1
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
	TOTAL	50	TOTAL	50



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 mi east of Corralitos Road to Bowker Road (Speed Data collected at 0.4 mi east of Corralitos Road)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	52 mph	52 mph
Pace Speed	43-53 mph	41-51 mph
Average Speed	47.9 mph	46.9 mph

ANALYSIS:

The prevailing 85th percentile speeds are 52 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 45 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 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:	Bowker Rd	55	4	◆◆◆◆	100.0%
To:	0.2mi East of Corralitos Rd	54	1	◆	92.0%
Direction:	Westbound	53	2	◆◆	90.0%
Weather:	Sunny	52	3	◆◆◆	86.0%
Posted Speed:	45mph	51	4	◆◆◆◆	80.0%
Begin time:	3:30	50	7	◆◆◆◆◆◆◆	72.0%
End time:	3:55	49	3	◆◆◆	58.0%
		48	1	◆	52.0%
		47	4	◆◆◆◆	50.0%
		46	3	◆◆◆	42.0%
		45	5	◆◆◆◆◆	36.0%
		44	6	◆◆◆◆◆◆	26.0%
		43	4	◆◆◆◆	14.0%
		42	1	◆	6.0%
		41	1	◆	4.0%
CRITICAL SPEED	52	40	1	◆	2.0%
AVERAGE SPEED	47.90	39	0		0.0%
MEDIAN SPEED	47.5	38	0		0.0%
STANDARD DEVIATION	4.05	37	0		0.0%
PACE RANGE	43 - 53	36	0		0.0%
PERCENTAGE IN PACE	80.0%	35	0		0.0%
TOTAL # OF AUTOS	50	34	0		0.0%

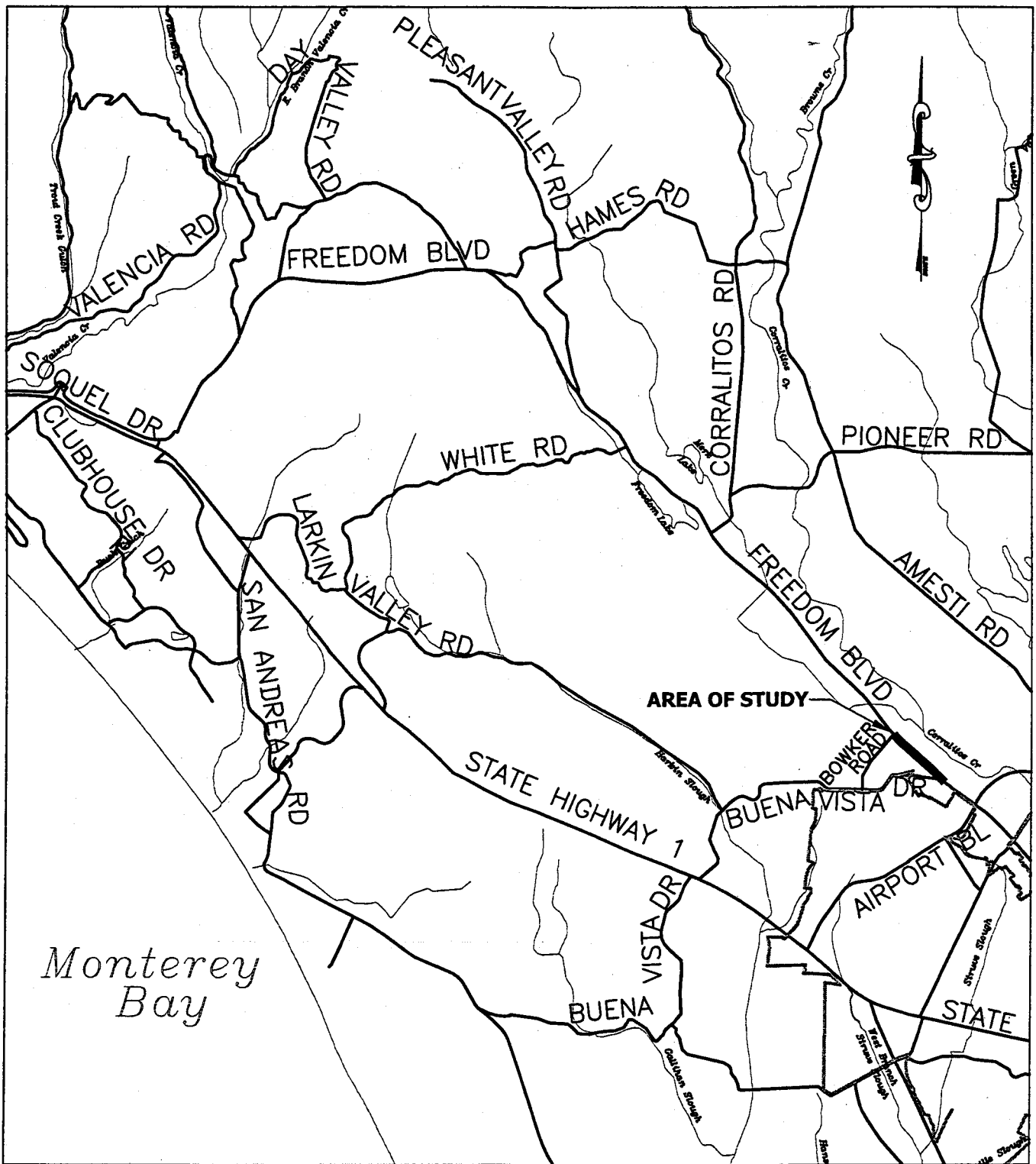
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Freedom Boulevard				
From:	0.2mi East of Corralitos Rd	55	4	◆◆◆◆	100.0%
To:	Bowker Rd	54	2	◆◆	92.0%
Direction:	Eastbound	53	1	◆	88.0%
Weather:	Sunny	52	1	◆	86.0%
Posted Speed:	45	51	2	◆◆	84.0%
Begin time:	3:30	50	1	◆	80.0%
End time:	3:55	49	3	◆◆◆	78.0%
		48	2	◆◆	72.0%
		47	8	◆◆◆◆◆◆◆◆	68.0%
		46	5	◆◆◆◆◆	52.0%
		45	7	◆◆◆◆◆◆◆	42.0%
		44	6	◆◆◆◆◆◆	28.0%
		43	3	◆◆◆	16.0%
		42	1	◆	10.0%
		41	3	◆◆◆	8.0%
		40	1	◆	2.0%
CRITICAL SPEED	52				
AVERAGE SPEED	46.94	39	0		0.0%
MEDIAN SPEED	46.0	38	0		0.0%
STANDARD DEVIATION	4.01	37	0		0.0%
PACE RANGE	41 - 51	36	0		0.0%
PERCENTAGE IN PACE	78.0%	35	0		0.0%
TOTAL # OF AUTOS	50	34	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works (approx. 0.4 m East of Corralitos Rd)

LOCATION Freedom Blvd. from 0.2 mi East of Corralitos Rd to Bowker Rd BY TN
 ROAD NO 2504 DATE 4/2/05 DAY Thursday BEGIN 3:30 END 3:55
 POSTED SPEED 45 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE < 5% CALIBRATED ✓

NUMBER OF VEHICLES				
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	East (to Bowker Rd)		West (to Corralitos Rd)	
55+		4		4
54		2		1
53		1		2
52		1		3
51		2		4
50		1	 	7
49		3		3
48		2		1
47	 	8		4
46	 	5		3
45	 	7	 	5
44	 	6	 	6
43		3		4
42		1		1
41		3		1
40		1		1
39				
38				
37				
36				
35				
34				
33				
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20-				
TOTAL		50	TOTAL 50	



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
 RADAR SPEED SURVEY
 FREEDOM BOULEVARD
 BOWKER RD TO BUENA VISTA DR**

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 near the Pista Lane intersection)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	48 mph	46 mph
Pace Speed	39-49 mph	36-46 mph
Average Speed	42.4 mph	41 mph

ANALYSIS:

The prevailing 85th percentile speeds are 48 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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 35 MPH speed limit be increased to 40 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Freedom Boulevard
From: Buena Vista Drive
To: Bowker Road
Direction: Westbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 3:15
End time: 3:55

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

48
 42.42
 42.0
 4.29
 39 - 49
 76.0%
 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
52	1	◆	100.0%
51	1	◆	98.0%
50	2	◆◆	96.0%
49	1	◆	92.0%
48	3	◆◆◆	90.0%
47	1	◆	84.0%
46	3	◆◆◆	82.0%
45	3	◆◆◆	76.0%
44	3	◆◆◆	70.0%
43	3	◆◆◆	64.0%
42	5	◆◆◆◆◆	58.0%
41	5	◆◆◆◆◆	48.0%
40	8	◆◆◆◆◆◆◆◆	38.0%
39	4	◆◆◆◆	22.0%
38	1	◆	14.0%
37	3	◆◆◆	12.0%
36	1	◆	6.0%
35	0		4.0%
34	2	◆◆	4.0%
33	0		0.0%
32	0		0.0%
31	0		0.0%

RADAR SPEED SURVEY

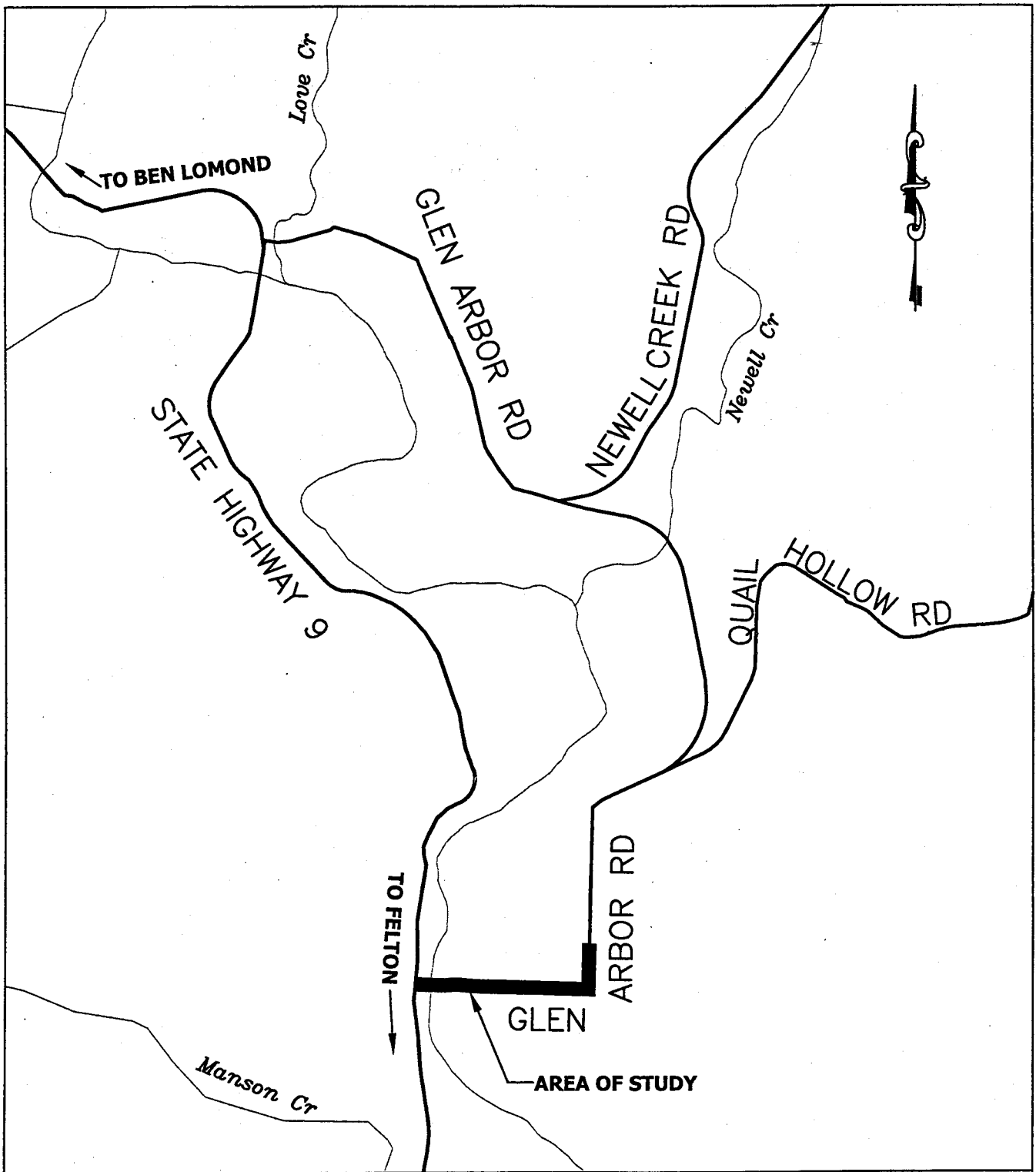
Route: Freedom Boulevard
From: Bowker Road
To: Buena Vista Drive
Direction: Eastbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 3:15
End time: 3:55

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		52	1	◆	100.0%
		51	0		98.0%
		50	1	◆	98.0%
		49	0		96.0%
		48	1	◆	96.0%
		47	2	◆◆	94.0%
		46	3	◆◆◆	90.0%
		45	3	◆◆◆	84.0%
		44	4	◆◆◆◆	78.0%
		43	1	◆	70.0%
		42	3	◆◆◆	68.0%
		41	5	◆◆◆◆◆	62.0%
		40	7	◆◆◆◆◆◆◆	52.0%
		39	4	◆◆◆◆	38.0%
		38	4	◆◆◆◆	30.0%
		37	4	◆◆◆◆	22.0%
		36	4	◆◆◆◆	14.0%
		35	3	◆◆◆	6.0%
		34	0		0.0%
		33	0		0.0%
		32	0		0.0%
		31	0		0.0%
CRITICAL SPEED	46				
AVERAGE SPEED	41.04				
MEDIAN SPEED	40.0				
STANDARD DEVIATION	4.09				
PACE RANGE	36 - 46				
PERCENTAGE IN PACE	78.0%				
TOTAL # OF AUTOS	50				

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Freedom Blvd - From Bowker Rd to Buena Vista Dr. BY TN
 ROAD NO 2504 DATE 4/26/05 DAY Tuesday BEGIN 3:15 END 3:55
 POSTED SPEED 35 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE < 5% CALIBRATED

NUMBER OF VEHICLES			
MPH	DIRECTION <u>East (To Buena Vista)</u>	TOTAL OF EACH SPEED	DIRECTION <u>West (To Bowker Rd)</u>
55+			
54			
53			
52		1	
51			
50		1	
49			
48		1	
47		2	
46		3	
45		3	
44		4	
43		1	
42		3	
41	 	5	
40	 	7	
39		4	
38		4	
37		4	
36		4	
35		3	
34			
33			
32			
31			
30			
29			
28			
27			
26			
25			
24			
23			
22			
21			
20-			
TOTAL		<u>50</u>	TOTAL



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 Highway 9 (southern intersection) to 0.3 miles north of Highway 9 (Speed Data collected at 8211 Glen Arbor Road.)

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is not radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	37 mph	37 mph
Pace Speed	27-37 mph	27-37 mph
Average Speed	31.5 mph	32.0 mph

ANALYSIS:

The prevailing 85th percentile speeds are 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima facie residential, 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 25 MPH speed limit be increased to 30 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:	Glen Arbor Road				
From:	Hwy 9	38	2	◆◆	100.0%
To:	0.3 miles north of Hwy 9	37	4	◆◆◆◆	96.0%
Direction:	Northbound (Towards Quail Hollow Rd)	36	2	◆◆	88.0%
Weather:	Sunny	35	2	◆◆	84.0%
Posted Speed:	25mph	34	3	◆◆◆	80.0%
Begin time:	3:24	33	6	◆◆◆◆◆◆	74.0%
End time:	3:54	32	10	◆◆◆◆◆◆◆◆◆◆	62.0%
		31	6	◆◆◆◆◆◆	42.0%
		30	5	◆◆◆◆◆	30.0%
		29	1	◆	20.0%
		28	3	◆◆◆	18.0%
		27	0		12.0%
		26	1	◆	12.0%
		25	0		10.0%
		24	1	◆	10.0%
CRITICAL SPEED	37	23	2	◆◆	8.0%
AVERAGE SPEED	31.46	22	1	◆	4.0%
MEDIAN SPEED	32.0	21	0		2.0%
STANDARD DEVIATION	4.08	20	1	◆	2.0%
PACE RANGE	27 - 37	19	0		0.0%
PERCENTAGE IN PACE	76.0%	18	0		0.0%
TOTAL # OF AUTOS	50	17	0		0.0%

RADAR SPEED SURVEY

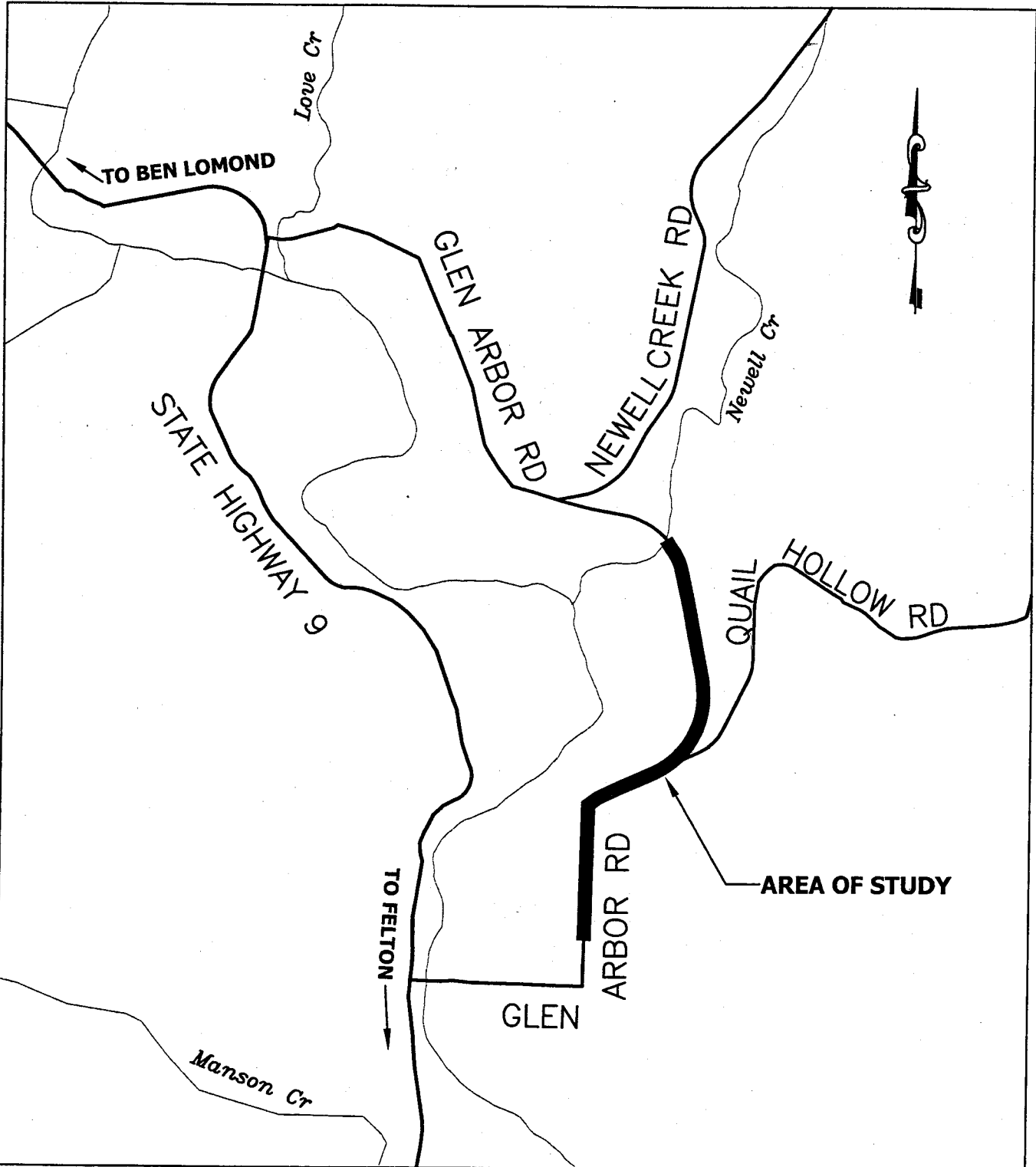
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Glen Arbor Road				
From:	0.3 miles north of Hwy 9	38	4	◆◆◆◆	100.0%
To:	Hwy 9	37	3	◆◆◆	92.0%
Direction:	Southbound (Towards Hwy 9)	36	3	◆◆◆	86.0%
Weather:	Sunny	35	4	◆◆◆◆	80.0%
Posted Speed:	25mph	34	1	◆	72.0%
Begin time:	3:24	33	7	◆◆◆◆◆◆◆	70.0%
End time:	3:54	32	6	◆◆◆◆◆◆	56.0%
		31	3	◆◆◆	44.0%
		30	7	◆◆◆◆◆◆◆	38.0%
		29	3	◆◆◆	24.0%
		28	3	◆◆◆	18.0%
		27	2	◆◆	12.0%
		26	3	◆◆◆	8.0%
		25	1	◆	2.0%
		24	0		0.0%
CRITICAL SPEED	37	23	0		0.0%
AVERAGE SPEED	31.98	22	0		0.0%
MEDIAN SPEED	32.0	21	0		0.0%
STANDARD DEVIATION	3.58	20	0		0.0%
PACE RANGE	27 - 37	19	0		0.0%
PERCENTAGE IN PACE	78.0%	18	0		0.0%
TOTAL # OF AUTOS	50	17	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Glen Arbor Rd / Hwy 9 southern intersection - 0.3 mi. N Hwy 9 BY TN
 ROAD NO 3307 DATE 12/20/03 DAY Tues BEGIN 3:24 END 3:54
 POSTED SPEED 25 mph WEATHER Clouds
 NUMBER OF LANES 2 GRADE < 10% CALIBRATED ✓

NUMBER OF VEHICLES

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



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 0.3 miles north of Highway 9 to Newell Creek Bridge
(Speed Data collected at 8970 Glen Arbor Road)

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is not radar enforced.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	39 mph	38 mph
Pace Speed	29-39 mph	31-41 mph
Average Speed	35.9 mph	35 mph

ANALYSIS:

The prevailing 85th percentile speeds are 39 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima facie residential, safe stopping sight distance, numerous driveways, curves along Glen Arbor Road, roadway width narrows across bridge, intersection configurations and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 35 MPH speed limit be reduced to 30 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Glen Arbor Road
From: 0.3 mi north of Hwy 9
To: Newell Creek Bridge
Direction: Northbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 11:05
End time: 11:32

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
40	3	◆◆◆	100.0%
39	10	◆◆◆◆◆◆◆◆◆◆	94.0%
38	7	◆◆◆◆◆◆◆	74.0%
37	2	◆◆	60.0%
36	1	◆	56.0%
35	10	◆◆◆◆◆◆◆◆◆◆	54.0%
34	7	◆◆◆◆◆◆◆	34.0%
33	2	◆◆	20.0%
32	6	◆◆◆◆◆◆	16.0%
31	0		4.0%
30	2	◆◆	4.0%
29	0		0.0%
28	0		0.0%
27	0		0.0%
26	0		0.0%
25	0		0.0%
24	0		0.0%
23	0		0.0%
22	0		0.0%
21	0		0.0%
20	0		0.0%
19	0		0.0%

CRITICAL SPEED	39		
AVERAGE SPEED	35.84		
MEDIAN SPEED	35.0		
STANDARD DEVIATION	2.82		
PACE RANGE	29 - 39		
PERCENTAGE IN PACE	74.0%		
TOTAL # OF AUTOS	50		

RADAR SPEED SURVEY

Route: Glen Arbor Road
From: Newell Creek Bridge
To: 0.3 mi north of Hwy 9
Direction: Southbound
Weather: Sunny
Posted Speed: 35mph
Begin time: 11:05
End time: 11:32

CRITICAL SPEED 38
AVERAGE SPEED 35.00
MEDIAN SPEED 35.0
STANDARD DEVIATION 3.61
PACE RANGE 31 - 41
PERCENTAGE IN PACE 86.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
44	1	◆	100.0%
43	0		98.0%
42	0		98.0%
41	2	◆◆	98.0%
40	1	◆	94.0%
39	2	◆◆	92.0%
38	5	◆◆◆◆◆	88.0%
37	5	◆◆◆◆◆	78.0%
36	7	◆◆◆◆◆◆◆	68.0%
35	5	◆◆◆◆◆	54.0%
34	10	◆◆◆◆◆◆◆◆◆◆	44.0%
33	3	◆◆◆	24.0%
32	2	◆◆	18.0%
31	3	◆◆◆	14.0%
30	0		8.0%
29	0		8.0%
28	3	◆◆◆	8.0%
27	0		2.0%
26	0		2.0%
25	0		2.0%
24	1	◆	2.0%
23	0		0.0%

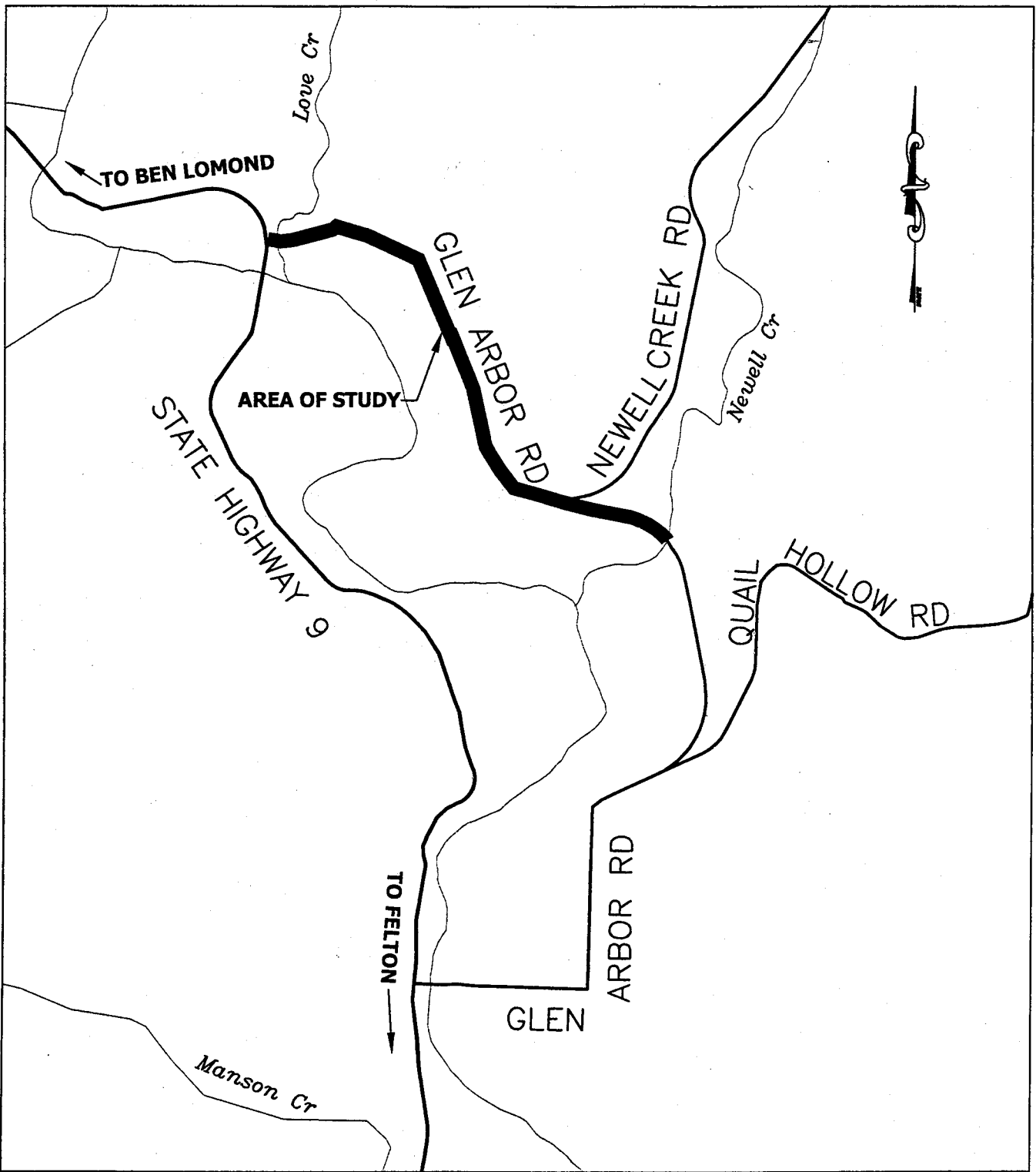
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Glen Arbor Rd / 0.3 mi North of Hwy 9 to Newell Creek Br. BY TN
 ROAD NO 2307 DATE 8/30/05 DAY Tues BEGIN 11:05 END 11:32
 POSTED SPEED 35 mph WEATHER Sunny
 NUMBER OF LANES 2 GRADE < 5% CALIBRATED ✓

@ 8970 Glen Arbor

NUMBER OF VEHICLES

MPH	DIRECTION <u>North (To Newell Creek)</u>	TOTAL OF EACH SPEED	DIRECTION <u>South (To Quail Hollow)</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				1
43				
42				
41				2
40		3		1
39		10		2
38		7		5
37		2		5
36		1		7
35		10		5
34		7		10
33		2		3
32		6		2
31				3
30		2		
29				
28				3
27				
26				
25				
24				1
23				
22				
21				
20				
TOTAL		50	TOTAL	50



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 Highway 9 (northern intersection)
(Speed Data collected at 9610 Glen Arbor Road.)

PREVAILING SPEED DATA:

The existing speed limit is 25 MPH and is not radar enforced.
The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	37 mph	35 mph
Pace Speed	29-39 mph	26-36 mph
Average Speed	31.8 mph	30.5 mph

ANALYSIS:

The prevailing 85th percentile speeds are 37 MPH and 35 MPH depending on 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are prima facie residential, safe stopping sight distance, numerous driveways, curves along Glen Arbor Road, intersection configurations and shoulder conditions with pedestrian traffic in the roadway without sidewalks. It is recommended that the existing 25 MPH speed limit be increased to 30 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Glen Arbor Road
From: Newell Creek Bridge
To: Hwy 9
Direction: Northbound
Weather: Sunny
Posted Speed: 25mph
Begin time: 11:38
End time: 12:08

CRITICAL SPEED 37
AVERAGE SPEED 31.80
MEDIAN SPEED 31.0
STANDARD DEVIATION 3.95
PACE RANGE 29 - 39
PERCENTAGE IN PACE 76.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
40	1	◆	100.0%
39	2	◆◆	98.0%
38	1	◆	94.0%
37	4	◆◆◆◆	92.0%
36	2	◆◆	84.0%
35	5	◆◆◆◆◆	80.0%
34	3	◆◆◆	70.0%
33	2	◆◆	64.0%
32	3	◆◆◆	60.0%
31	3	◆◆◆	54.0%
30	9	◆◆◆◆◆◆◆◆◆	48.0%
29	6	◆◆◆◆◆◆	30.0%
28	1	◆	18.0%
27	4	◆◆◆◆	16.0%
26	2	◆◆	8.0%
25	2	◆◆	4.0%
24	0		0.0%
23	0		0.0%
22	0		0.0%
21	0		0.0%
20	0		0.0%
19	0		0.0%

RADAR SPEED SURVEY

Route: Glen Arbor Road
 From: Hwy 9
 To: Newell Creek Bridge
 Direction: Southbound
 Weather: Sunny
 Posted Speed: 25mph
 Begin time: 11:38
 End time: 12:08

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
39	2	100.0%
38	2	96.0%
37	1	92.0%
36	1	90.0%
35	4	88.0%
34	0	80.0%
33	5	80.0%
32	3	70.0%
31	1	64.0%
30	9	62.0%
29	5	44.0%
28	3	34.0%
27	5	28.0%
26	5	18.0%
25	4	8.0%
24	0	0.0%
23	0	0.0%
22	0	0.0%
21	0	0.0%
20	0	0.0%
19	0	0.0%
18	0	0.0%

CRITICAL SPEED 35
 AVERAGE SPEED 30.46
 MEDIAN SPEED 30.0
 STANDARD DEVIATION 3.95
 PACE RANGE 26 - 36
 PERCENTAGE IN PACE 80.0%
 TOTAL # OF AUTOS 50

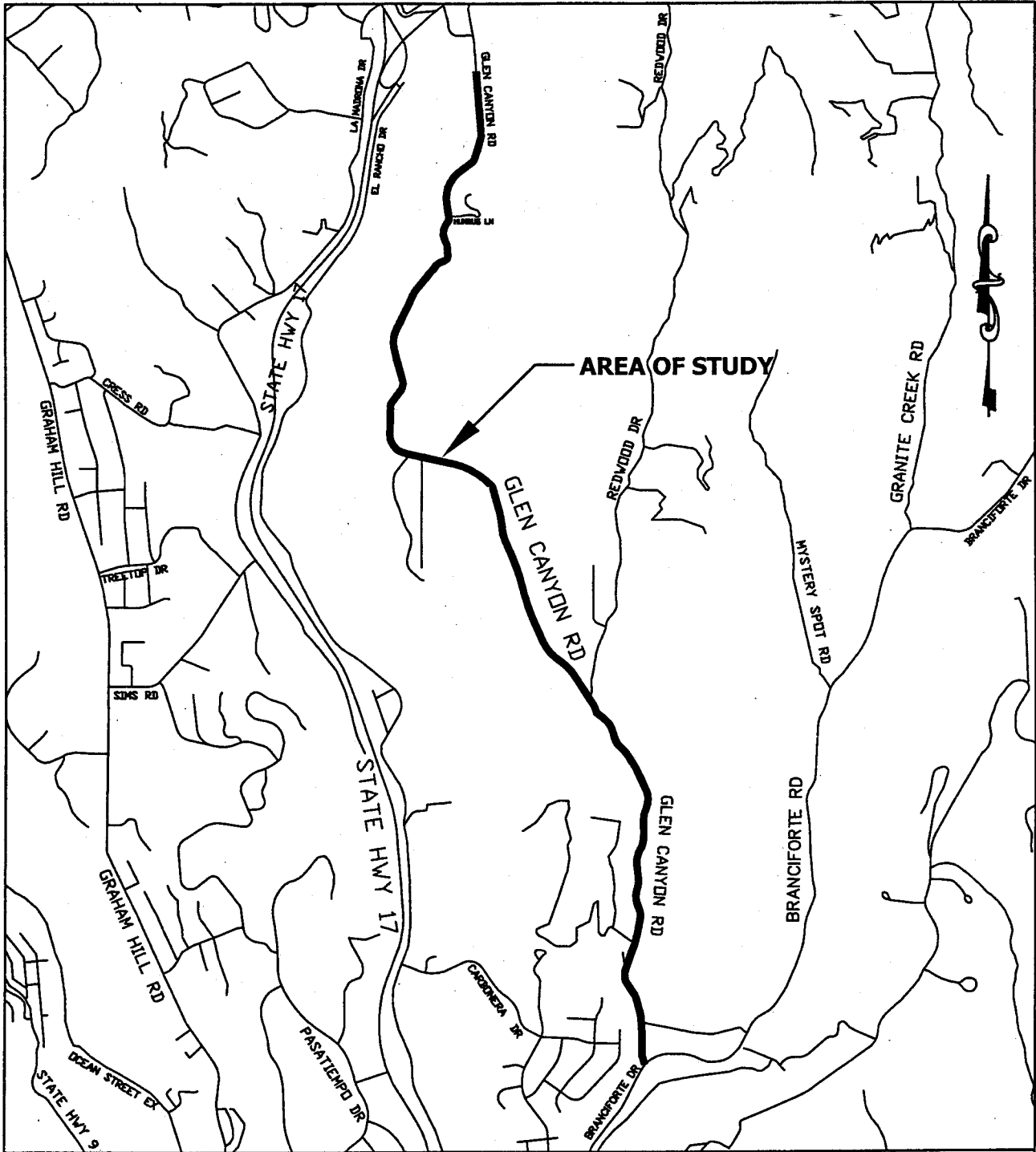
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Glen Arbor Rd / Newell Creek Br. to Hwy 9 BY TN
 ROAD NO 3307 DATE 8/30/05 DAY Tues BEGIN 11:38 END 12:08
 POSTED SPEED 25 mph WEATHER Sunny
 NUMBER OF LANES 2 GRADE <5% CALIBRATED ✓

@ 9610 Glen Arbor

NUMBER OF VEHICLES

MPH	DIRECTION North (To Hwy 9)	TOTAL OF EACH SPEED	DIRECTION South (To Newell Creek Rd)	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		2		2
38		1		2
37		4		1
36		2		1
35		5		4
34		3		
33		2		5
32		3		3
31		3		1
30		9		9
29		6		5
28		1		3
27		4		5
26		2		5
25		2		4
24				
23				
22				
21				
20-				
	TOTAL	50		TOTAL 50



**SANTA CRUZ COUNTY TRAFFIC ENGINEERING
RADAR SPEED SURVEY
GLEN CANYON RD
BRANCIFORTE DR TO SCOTTS VALLEY CITY LIMITS**

June 2006
Page # 91

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

PURPOSE:

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

LOCATION:

Glen Canyon Road between Branciforte Drive and Scotts Valley City Limits (Speed Data collected at 0.2 mi south of Redwood Drive.)

PREVAILING SPEED DATA:

The existing speed limit is 35 MPH and is not 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	33.63 mph	33.55 mph

ANALYSIS:

The prevailing 85th percentile speeds are 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are a safe stopping sight distance, numerous driveways, curves along Glen Canyon Road, intersection configurations and shoulder conditions. It is recommended that the existing 35 MPH speed limit be lowered to 30 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:	Glen Canyon Road			
From:	Branciforte Drive	45	0	100.0%
To:	Scotts Valley City Limits	44	0	100.0%
Direction:	Northbound	43	1 ♦	100.0%
Weather:	Sunny	42	1 ♦	98.1%
Posted Speed:	35	41	0	96.3%
Begin time:	11:44 AM	40	0	96.3%
End time:	1:06 PM	39	1 ♦	96.3%
		38	3 ♦♦♦	94.4%
		37	5 ♦♦♦♦♦	88.9%
		36	6 ♦♦♦♦♦♦	79.6%
		35	4 ♦♦♦♦	68.5%
		34	6 ♦♦♦♦♦♦	61.1%
		33	6 ♦♦♦♦♦♦	50.0%
		32	7 ♦♦♦♦♦♦♦	38.9%
		31	5 ♦♦♦♦♦	25.9%
CRITICAL SPEED	37	30	2 ♦♦	16.7%
AVERAGE SPEED	33.63	29	4 ♦♦♦♦	13.0%
MEDIAN SPEED	33.5	28	2 ♦♦	5.6%
STANDARD DEVIATION	3.55	27	0	1.9%
PACE RANGE	29 - 39	26	0	1.9%
PERCENTAGE IN PACE	88.9%	25	0	1.9%
TOTAL # OF AUTOS	54	24	1 ♦	1.9%
		23	0	0.0%

RADAR SPEED SURVEY

Route: Glen Canyon Road
From: Scotts Valley City Limits
To: Branciforte Drive
Direction: Southbound
Weather: Sunny
Posted Speed: 35
Begin time: 11:44 AM
End time: 1:06 PM

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
45	0	100.0%
44	0	100.0%
43	0	100.0%
42	1 ◆	100.0%
41	1 ◆	98.6%
40	1 ◆	97.1%
39	3 ◆◆◆	95.7%
38	3 ◆◆◆	91.3%
37	4 ◆◆◆◆	87.0%
36	10 ◆◆◆◆◆◆◆◆◆◆	81.2%
35	9 ◆◆◆◆◆◆◆◆◆	66.7%
34	6 ◆◆◆◆◆	53.6%
33	5 ◆◆◆◆◆	44.9%
32	6 ◆◆◆◆◆	37.7%
31	6 ◆◆◆◆◆	29.0%
30	4 ◆◆◆◆	20.3%
29	5 ◆◆◆◆◆	14.5%
28	1 ◆	7.2%
27	0	5.8%
26	1 ◆	5.8%
25	2 ◆◆	4.3%
24	0	1.4%
23	0	1.4%

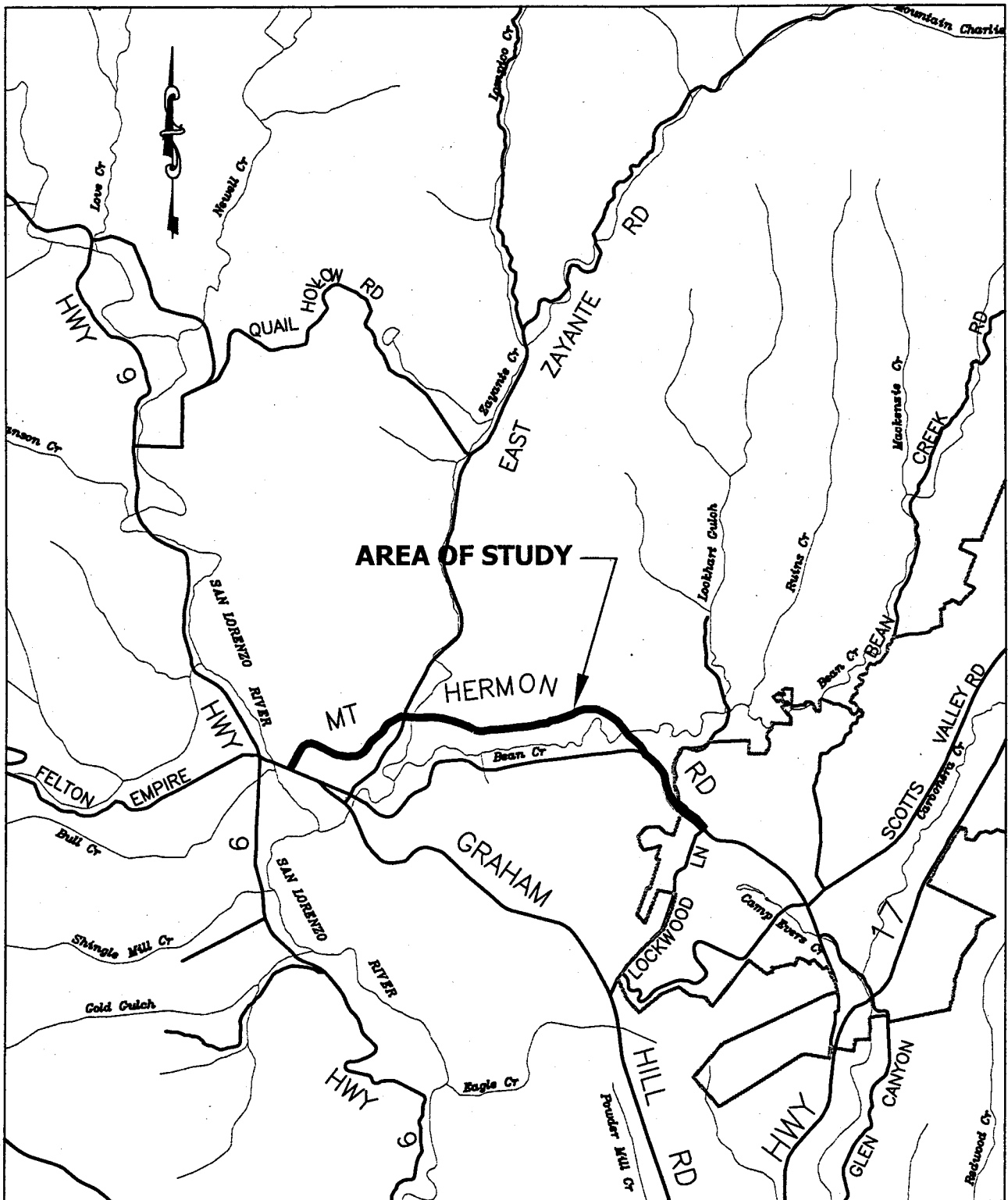
CRITICAL SPEED 37
AVERAGE SPEED 33.55
MEDIAN SPEED 34.0
STANDARD DEVIATION 3.88
PACE RANGE 29 - 39
PERCENTAGE IN PACE 84.1%
TOTAL # OF AUTOS 69

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION GLEN CANYON BY GJM
 ROAD NO 2401 DATE 12/15/05 DAY THURS BEGIN 11:44 END 1:06
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 9% CALIBRATED y

NUMBER OF VEHICLES

MPH	DIRECTION → SCOTTS VALLEY	TOTAL OF EACH SPEED	DIRECTION → SANTA CRUZ	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	/	1
41			/	1
40			/	1
39	/	1	///	3
38	///	3	///	3
37	////	5	////	4
36	////	6	////	10
35	///	4	////	9
34	////	6	////	6
33	////	6	////	5
32	////	7	////	6
31	////	5	////	6
30	//	2	///	4
29	///	4	///	5
28	//	2	/	1
27				
26			/	1
25			//	2
24	/	1		
23				
22			/	1
21				
20				
TOTAL		54	TOTAL 69	



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 between the City of Scotts Valley and Graham Hill Road.
(Speed Data collected at Covenant Lane)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	50 mph	54 mph
Pace Speed	42-52 mph	46-56 mph
Average Speed	45.14 mph	48.78 mph

ANALYSIS:

The prevailing 85th percentile speeds are 50 MPH and 54 MPH depending on the direction 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 45 MPH. The factors justifying a further reduction are the presence of two quarry operations adjacent to Mount Hermon Road with large trucks entering and leaving the roadway, horizontal and vertical curves, and high volume of traffic. 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:	Mt. Hermon Road			
From:	Felton	60	0	100.0%
To:	Scotts Valley City Limits	59	0	100.0%
Direction:	West	58	0	100.0%
Weather:	Sunny	57	0	100.0%
Posted Speed:	45	56	0	100.0%
Begin time:	10:05 AM	55	1	100.0%
End time:	10:45 AM	54	1	98.4%
		53	2	96.8%
		52	0	93.5%
		51	4	93.5%
		50	2	87.1%
		49	4	83.9%
		48	6	77.4%
		47	5	67.7%
		46	4	59.7%
		45	6	53.2%
CRITICAL SPEED	50	45	6	53.2%
AVERAGE SPEED	45.26	44	5	43.5%
MEDIAN SPEED	45.0	43	7	35.5%
STANDARD DEVIATION	4.44	42	4	24.2%
PACE RANGE	42 - 52	41	1	17.7%
PERCENTAGE IN PACE	75.8%	40	3	16.1%
TOTAL # OF AUTOS	62	39	4	11.3%
		38	1	4.8%
		37	1	3.2%
		36	0	1.6%
		35	0	1.6%
		34	0	1.6%
		33	1	1.6%
		32	0	0.0%
		31	0	0.0%

RADAR SPEED SURVEY

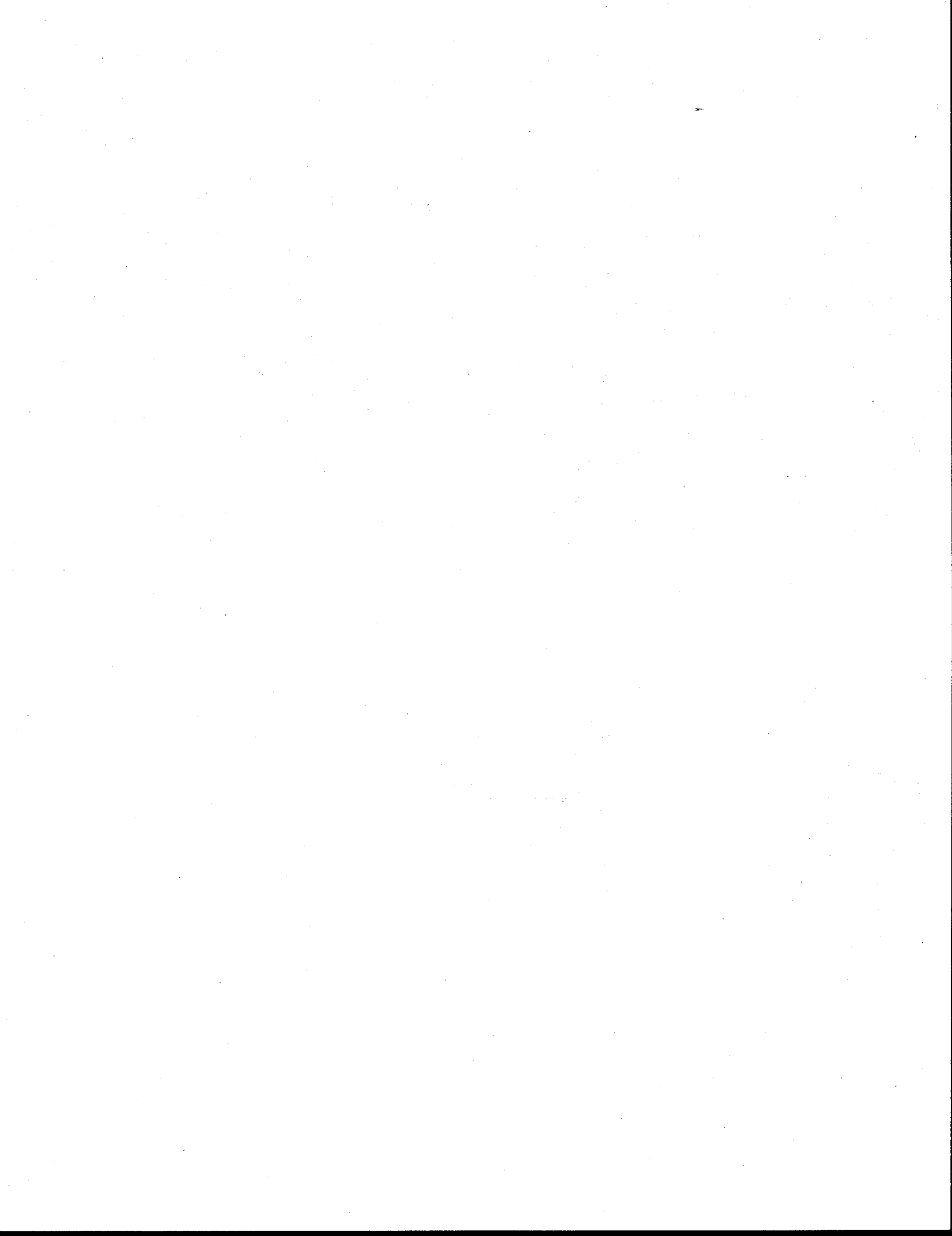
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Mt. Hermon Road				
From:	Scotts Valley City Limits	60	1	◆	100.0%
To:	Felton	59	1	◆	98.5%
Direction:	East	58	0		96.9%
Weather:	Sunny	57	1	◆	96.9%
Posted Speed:	45	56	0		95.4%
Begin time:	10:05 AM	55	6	◆◆◆◆◆◆	95.4%
End time:	10:45 AM	54	3	◆◆◆	86.2%
		53	4	◆◆◆◆	81.5%
		52	5	◆◆◆◆◆	75.4%
		51	4	◆◆◆◆	67.7%
		50	2	◆◆	61.5%
		49	4	◆◆◆◆	58.5%
		48	7	◆◆◆◆◆◆◆	52.3%
		47	7	◆◆◆◆◆◆◆	41.5%
		46	4	◆◆◆◆	30.8%
CRITICAL SPEED	54	45	3	◆◆◆	24.6%
AVERAGE SPEED	48.78	44	3	◆◆◆	20.0%
MEDIAN SPEED	48.0	43	3	◆◆◆	15.4%
STANDARD DEVIATION	4.82	42	3	◆◆◆	10.8%
PACE RANGE	46 - 56	41	3	◆◆◆	6.2%
PERCENTAGE IN PACE	70.8%	40	0		1.5%
TOTAL # OF AUTOS	65	39	0		1.5%
		38	0		1.5%
		37	1	◆	1.5%
		36	0		0.0%

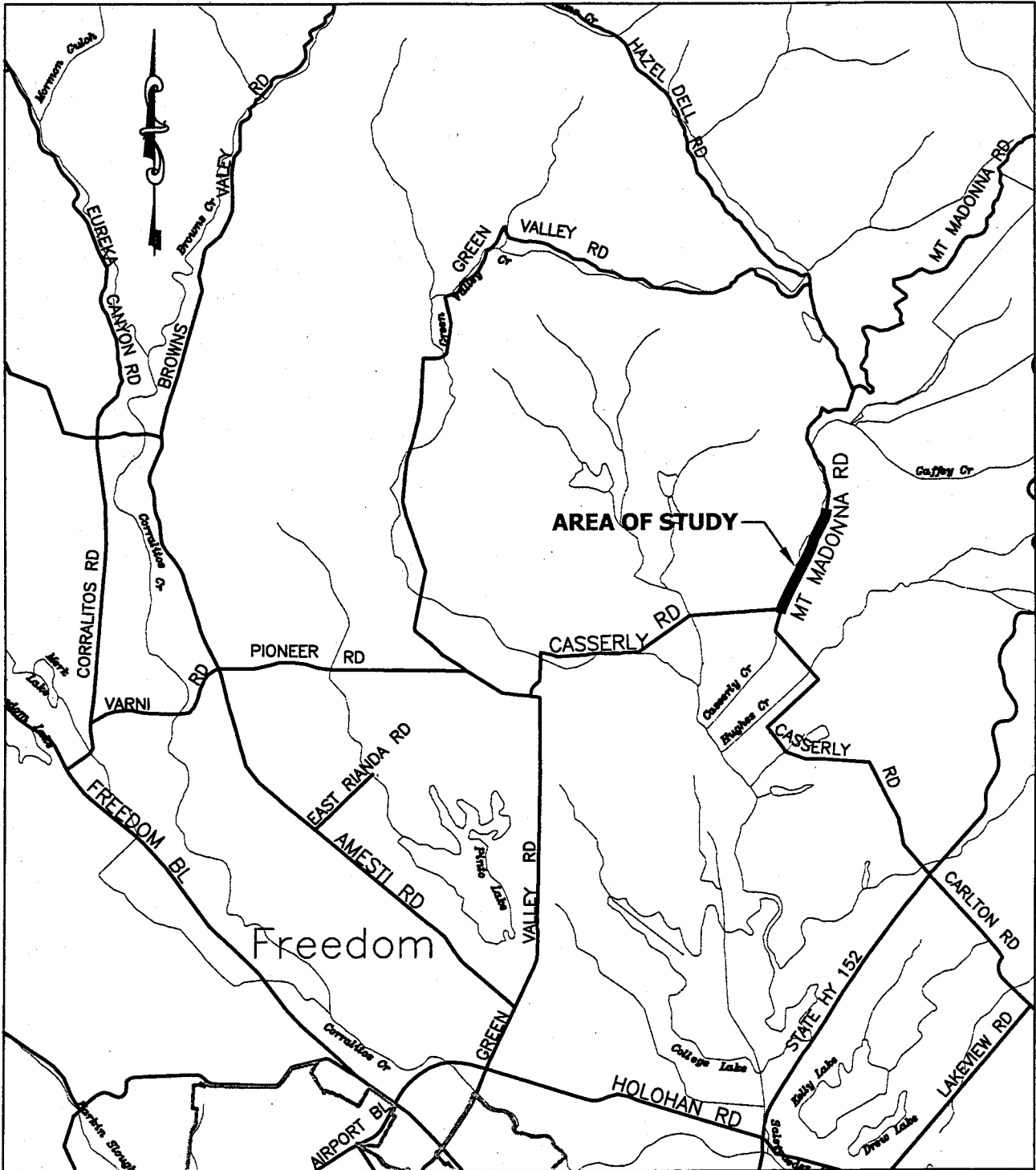
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION MT. HERMON ROAD BY GJM
 ROAD NO 3302 DATE 6/22/05 DAY WED BEGIN 10:05 END 10:45
 POSTED SPEED 45 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 6% CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION EAST	TOTAL OF EACH SPEED	DIRECTION WEST	TOTAL OF EACH SPEED	
	SV → FELTON		FELTON → SCOTTS VALLEY		
60	/	1			
59	/	1			
58					
57	/	1			
56					
55	////	6	/	1	
54	///	3	/	1	
53	////	4	//	2	
52	////	5			
51	///	4	////	4	
50	//	2	//	2	
49	///	4	////	4	
48	//////	7	//////	6	
47	//////	7	//////	5	
46	///	4	////	4	
45	///	3	//////	6	
44	//	3	//////	5	
43	///	3	//////	7	
42	///	3	///	4	
41	///	3	/	1	
40			///	3	
39			////	4	
38			/	1	
37	/	1	/	1	
36					
35					
34					
33			/	1	
32					
31					
30					
29					
28					
27					
26					
25					
24					
23					
22					
21					
20-					
TOTAL		65	TOTAL		62





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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

PURPOSE:

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

LOCATION:

Mt. Madonna Road from Casserly Road to 0.6 mi northwest of Casserly Road
(Speed Data collected at 0.3 mi northwest of Casserly Road)

PREVAILING SPEED DATA:

The existing speed limit is not posted.

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	42 mph	45 mph
Pace Speed	35-45 mph	35-45 mph
Average Speed	37.06 mph	39.52 mph

ANALYSIS:

The prevailing 85th percentile speeds are 42 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 40 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement 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:	Mt. Madonna Road			
From:	Cassery Road	50	0	100.0%
To:	0.6 miles North	49	0	100.0%
Direction:	Northbound	48	0	100.0%
Weather:	Sunny	47	1 ♦	100.0%
Posted Speed:	Not posted	46	0	98.0%
Begin time:	11:15 AM	45	0	98.0%
End time:	1:33 PM	44	2 ♦♦	98.0%
		43	3 ♦♦♦	94.0%
		42	2 ♦♦	88.0%
		41	3 ♦♦♦	84.0%
		40	4 ♦♦♦♦	78.0%
		39	5 ♦♦♦♦♦	70.0%
		38	4 ♦♦♦♦	60.0%
		37	4 ♦♦♦♦	52.0%
		36	5 ♦♦♦♦♦	44.0%
CRITICAL SPEED	42	35	4 ♦♦♦♦	34.0%
AVERAGE SPEED	37.06	34	2 ♦♦	26.0%
MEDIAN SPEED	37.0	33	2 ♦♦	22.0%
STANDARD DEVIATION	4.41	32	2 ♦♦	18.0%
PACE RANGE	35 - 45	31	3 ♦♦♦	14.0%
PERCENTAGE IN PACE	72.0%	30	2 ♦♦	8.0%
TOTAL # OF AUTOS	50	29	1 ♦	4.0%
		28	0	2.0%
		27	1 ♦	2.0%
		26		0.0%

RADAR SPEED SURVEY

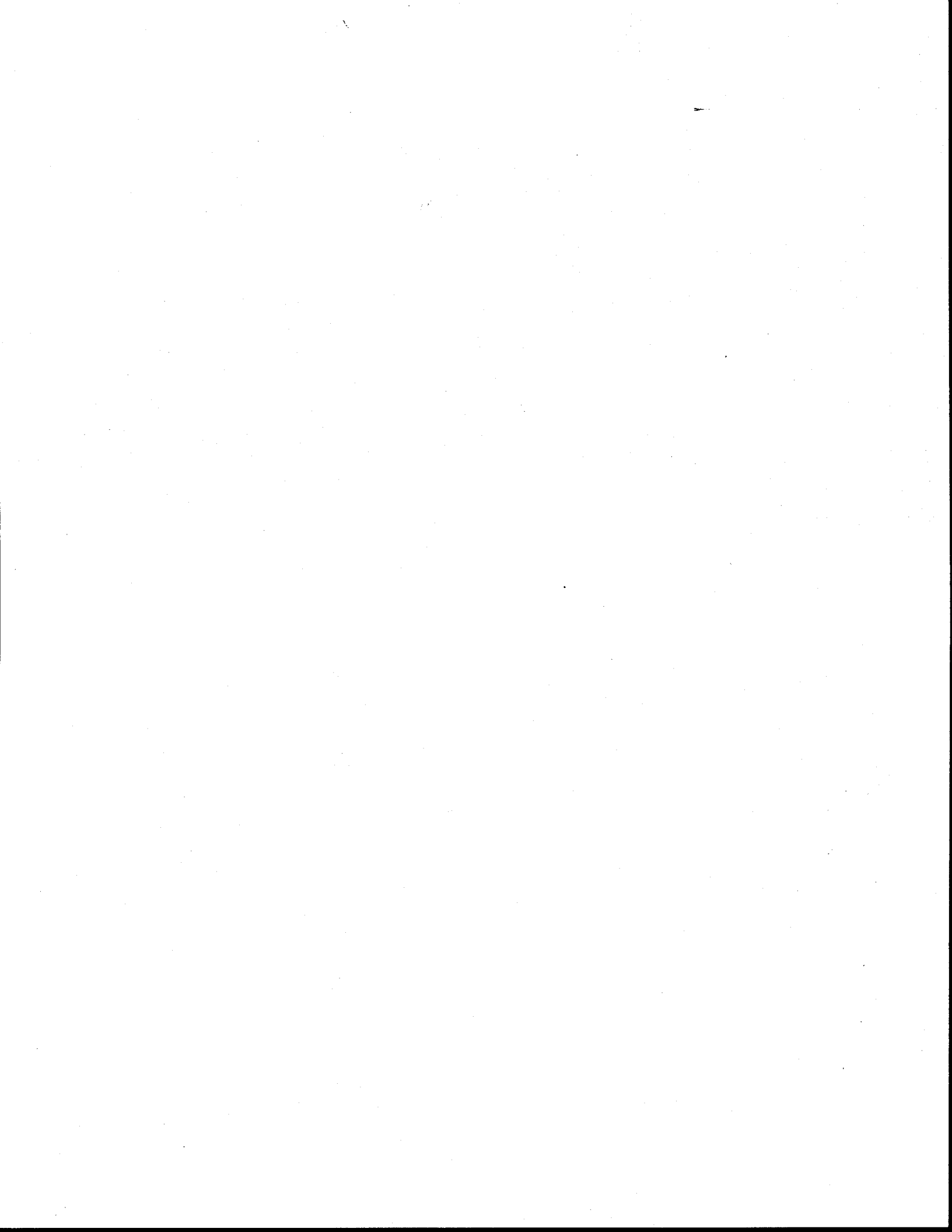
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	Mt. Madonna Road			
From:	0.6 miles North	51	1 ♦	100.0%
To:	Cassery Road	50	0	98.4%
Direction:	Southbound	49	2 ♦♦	98.4%
Weather:	Sunny	48	1 ♦	95.3%
Posted Speed:	Not posted	47	3 ♦♦♦	93.8%
Begin time:	11:15 AM	46	2 ♦♦	89.1%
End time:	1:33 PM	45	3 ♦♦♦	85.9%
		44	4 ♦♦♦♦	81.3%
		43	5 ♦♦♦♦♦	75.0%
		42	4 ♦♦♦♦	67.2%
		41	5 ♦♦♦♦♦	60.9%
		40	5 ♦♦♦♦♦	53.1%
		39	2 ♦♦	45.3%
		38	5 ♦♦♦♦♦	42.2%
		37	3 ♦♦♦	34.4%
CRITICAL SPEED	45	36	3 ♦♦♦	29.7%
AVERAGE SPEED	39.52	35	4 ♦♦♦♦	25.0%
MEDIAN SPEED	40.0	34	2 ♦♦	18.8%
STANDARD DEVIATION	5.59	33	2 ♦♦	15.6%
PACE RANGE	35 - 45	32	3 ♦♦♦	12.5%
PERCENTAGE IN PACE	62.5%	31	0	7.8%
TOTAL # OF AUTOS	64	30	2 ♦♦	7.8%
		29	0	4.7%
		28	2 ♦♦	4.7%
		27	1 ♦	1.6%
		26	0	0.0%

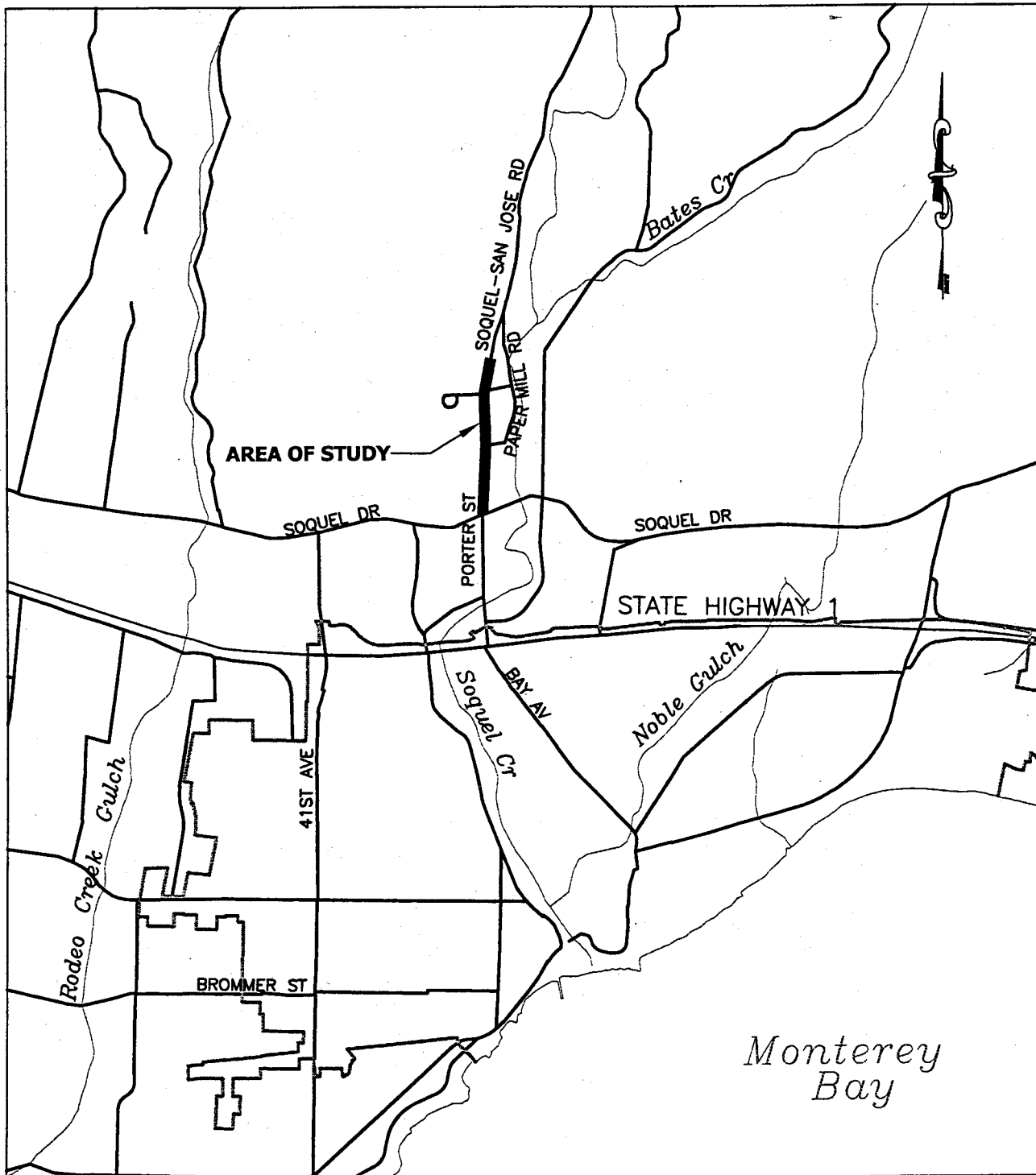
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION MP. MADONNA FROM CASSERLY TO 0.6 MI NORTH BY GJM
 ROAD NO 26059 DATE 7/26/05 DAY TUES BEGIN 11:15 END 1:33
 POSTED SPEED NOT POSTED WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 2.6 CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL ↓ OF EACH SPEED	DIRECTION	TOTAL ↑ OF EACH SPEED
	CASSERLY - 0.6 NORTH		0.6 N - CASSERLY	
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				1
50				
49				2
48				1
47		1		3
46				2
45				3
44		2		4
43		3		5
42		2		4
41		3		5
40		4		5
39		5		2
38		4		5
37		4		3
36		5		3
35		4		4
34		2		2
33		2		2
32		2		3
31		3		
30		2		2
29		1		
28				2
27		1		1
26				
25				
24				
23				
22				
21				
20-				
	TOTAL	50	TOTAL	64





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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 0.4 miles north of Soquel Drive (Speed Data collected at 3070 Porter Street)

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	31 mph
Pace Speed	22-32 mph	22-32 mph
Average Speed	26.9 mph	26.4 mph

ANALYSIS:

The prevailing 85th percentile speeds are 30 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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, 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: 0.4 mi north of Soquel Dr.
Direction: Northbound
Weather: Light Clouds
Posted Speed: 25mph
Begin time: 2:55
End time: 3:23

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
33	2	◆◆	100.0%
32	1	◆	96.0%
31	3	◆◆◆	94.0%
30	7	◆◆◆◆◆◆◆	88.0%
29	4	◆◆◆◆	74.0%
28	5	◆◆◆◆◆	66.0%
27	5	◆◆◆◆◆	56.0%
26	6	◆◆◆◆◆◆	46.0%
25	4	◆◆◆◆	34.0%
24	4	◆◆◆◆	26.0%
23	4	◆◆◆◆	18.0%
22	3	◆◆◆	10.0%
21	1	◆	4.0%
20	1	◆	2.0%
19	0		0.0%
18	0		0.0%
17	0		0.0%
16	0		0.0%
15	0		0.0%
CRITICAL SPEED	30		
AVERAGE SPEED	26.86		
MEDIAN SPEED	27.0		
STANDARD DEVIATION	3.23		
PACE RANGE	22 - 32		
PERCENTAGE IN PACE	90.0%		
TOTAL # OF AUTOS	50		

RADAR SPEED SURVEY

Route: Porter Street
From: 0.4 mi north of Soquel Dr.
To: Soquel Dr.
Direction: Southbound
Weather: Light Clouds
Posted Speed: 25mph
Begin time: 2:55
End time: 3:23

	<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
	35	1	◆	100.0%
	34	0		98.0%
	33	1	◆	98.0%
	32	4	◆◆◆◆	96.0%
	31	2	◆◆	88.0%
	30	2	◆◆	84.0%
	29	4	◆◆◆◆	80.0%
	28	5	◆◆◆◆◆	72.0%
	27	2	◆◆	62.0%
	26	3	◆◆◆	58.0%
	25	10	◆◆◆◆◆◆◆◆◆◆	52.0%
	24	6	◆◆◆◆◆◆	32.0%
	23	3	◆◆◆	20.0%
	22	5	◆◆◆◆◆	14.0%
	21	2	◆◆	4.0%
CRITICAL SPEED	31	20	0	0.0%
AVERAGE SPEED	26.42	19	0	0.0%
MEDIAN SPEED	25.0	18	0	0.0%
STANDARD DEVIATION	3.49	17	0	0.0%
PACE RANGE	22 - 32	16	0	0.0%
PERCENTAGE IN PACE	84.0%	15	0	0.0%
TOTAL # OF AUTOS	50	0	0	0.0%

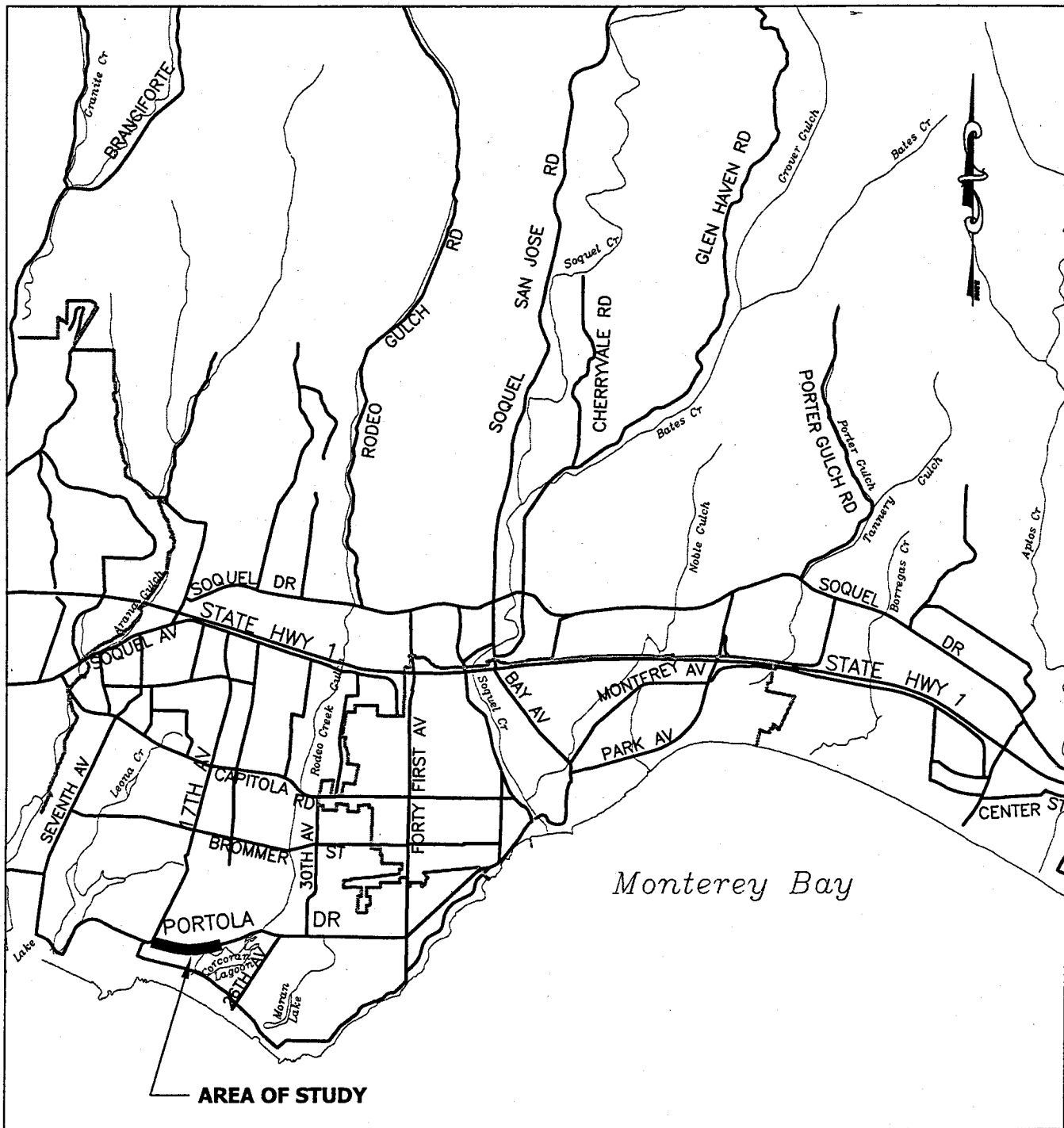
RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

(3070 Porter St)

LOCATION Porter St / Soquel Dr - 0.4 mi N. Soquel Dr BY TN
 ROAD NO 2422 DATE 12/7/05 DAY Wed BEGIN 2:55 END 3:23
 POSTED SPEED 25 mph WEATHER Light Clouds
 NUMBER OF LANES 3 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION (South) (Toward Soquel Dr)	TOTAL OF EACH SPEED	DIRECTION North (Towards Summit Rd)	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				
33		1		2
32		4		1
31		2		3
30		2		7
29		4		4
28		5		5
27		2		5
26		3		6
25		10		4
24		6		4
23		3		4
22		5		3
21		2		1
20-				1
TOTAL		50	TOTAL	
			50	



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 20th 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	35 mph	32 mph
Pace Speed	26-36 mph	24-34 mph
Average Speed	30.72 mph	28.12 mph

ANALYSIS:

The prevailing 85th percentile speeds are 35 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 35 MPH. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are a prima-facie residential district, high volume of traffic, pedestrian and bicycle traffic, a route to and from area schools, multiple intersecting side streets and a pedestrian and bicycle access route to a nearby Public Library. 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

Route: Portola Drive
From: 17th Avenue
To: Coastview Dr.
Direction: Westbound
Weather: Sunny
Posted Speed: 30
Begin time: 9:34
End time: 10:00

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
		39	1	◆	100.0%
		38	1	◆	98.0%
		37	1	◆	96.0%
		36	1	◆	94.0%
		35	4	◆◆◆◆	92.0%
		34	4	◆◆◆◆	84.0%
		33	5	◆◆◆◆◆	76.0%
		32	7	◆◆◆◆◆◆◆	66.0%
		31	4	◆◆◆◆	52.0%
		30	3	◆◆◆	44.0%
		29	2	◆◆	38.0%
		28	5	◆◆◆◆◆	34.0%
		27	4	◆◆◆◆	24.0%
		26	3	◆◆◆	16.0%
		25	3	◆◆◆	10.0%
		24	2	◆◆	4.0%
CRITICAL SPEED	35				
AVERAGE SPEED	30.72	23	0		0.0%
MEDIAN SPEED	31.0	22	0		0.0%
STANDARD DEVIATION	3.77	21	0		0.0%
PACE RANGE	26 - 36	20	0		0.0%
PERCENTAGE IN PACE	82.0%	19	0		0.0%
TOTAL # OF AUTOS	50	18	0		0.0%

RADAR SPEED SURVEY

Route: Portola Drive
From: Coastview Dr.
To: 17th Avenue
Direction: Eastbound
Weather: Sunny
Posted Speed: 30
Begin time: 9:34
End time: 10:05

CRITICAL SPEED 32
AVERAGE SPEED 28.12
MEDIAN SPEED 28.0
STANDARD DEVIATION 3.23
PACE RANGE 24 - 34
PERCENTAGE IN PACE 94.2%
TOTAL # OF AUTOS 52

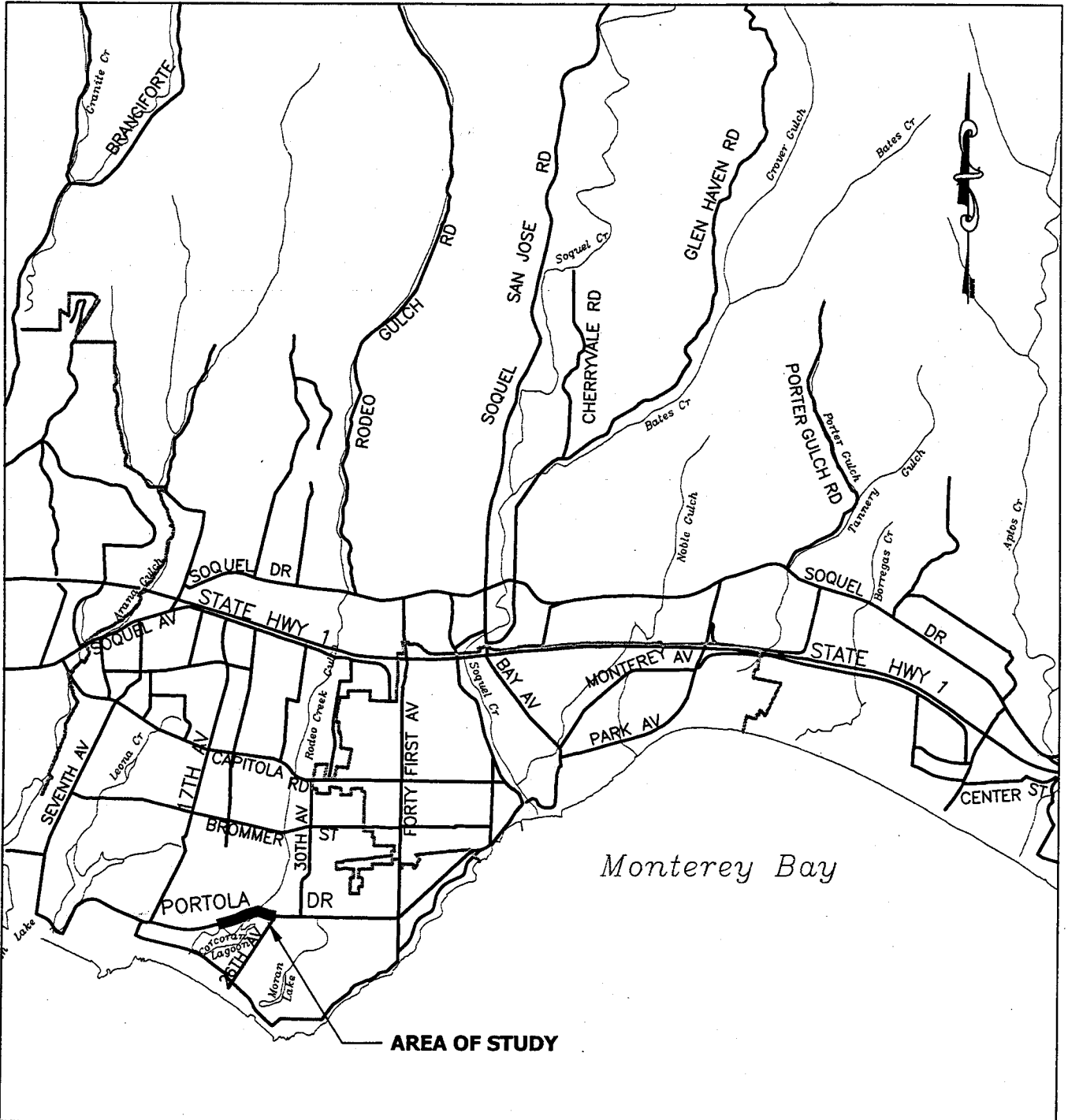
<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
39	1	◆	100.0%
35	0		98.1%
34	0		98.1%
33	1	◆	98.1%
32	7	◆◆◆◆◆◆◆	96.2%
31	4	◆◆◆◆	82.7%
30	5	◆◆◆◆◆	75.0%
29	6	◆◆◆◆◆◆	65.4%
28	3	◆◆◆	53.8%
27	6	◆◆◆◆◆◆	48.1%
26	4	◆◆◆◆	36.5%
25	11	◆◆◆◆◆◆◆◆◆◆◆	28.8%
24	2	◆◆	7.7%
23	1	◆	3.8%
22	1	◆	1.9%
21	0		0.0%
20	0		0.0%
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 PORTOLA DR. (@ 20th AVE.) 17th to COASTVIEW DR. BY RR
 ROAD NO 2009 DATE 5/3/05 DAY TU. BEGIN 9:34 END 10:05
 POSTED SPEED 30 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 4% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	9:34 TO 10:03 → EB TO CAPITOL RD.		9:34 TO 10:00 ← WB TO STATE CTR	
55+				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				1
38				1
37				1
36		1		1
35				4
34				4
33		1		5
32		4		8
31		4		4
30		5		8
29		6		2
28		3		5
27		6		4
26		4		3
25		11		3
24		2		2
23		1		
22		1		
21				
20-				
	TOTAL	52	TOTAL	50



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 Corcoran Avenue)

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	37 mph	38 mph
Pace Speed	30-40 mph	29-39 mph
Average Speed	32.92 mph	34.48 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 30 MPH. The factors justifying a further reduction are high volume of traffic, pedestrian and bicycle traffic, a route to and from area schools, multiple intersecting side streets and a pedestrian and bicycle access route to a nearby Public Library. It is recommended that the existing 35 MPH speed limit be decreased to 30 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route: Portola Drive
From: Coastview Dr.
To: 26th Avenue
Direction: Westbound
Weather: Sunny
Posted Speed: 35
Begin time: 10:15
End time: 10:52

CRITICAL SPEED 37
AVERAGE SPEED 32.92
MEDIAN SPEED 33.0
STANDARD DEVIATION 4.23
PACE RANGE 30 - 40
PERCENTAGE IN PACE 82.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
48	1	◆	100.0%
47	0		98.0%
46	0		98.0%
45	0		98.0%
44	0		98.0%
43	0		98.0%
42	0		98.0%
41	0		98.0%
40	0		98.0%
39	1	◆	98.0%
38	3	◆◆◆	96.0%
37	5	◆◆◆◆◆	90.0%
36	1	◆	80.0%
35	4	◆◆◆◆	78.0%
34	7	◆◆◆◆◆◆◆	70.0%
33	6	◆◆◆◆◆◆	56.0%
32	5	◆◆◆◆◆	44.0%
31	7	◆◆◆◆◆◆◆	34.0%
30	2	◆◆	20.0%
29	1	◆	16.0%
28	2	◆◆	14.0%
27	1	◆	10.0%
26	1	◆	8.0%
25	2	◆◆	6.0%
24	0		2.0%
23	1	◆	2.0%

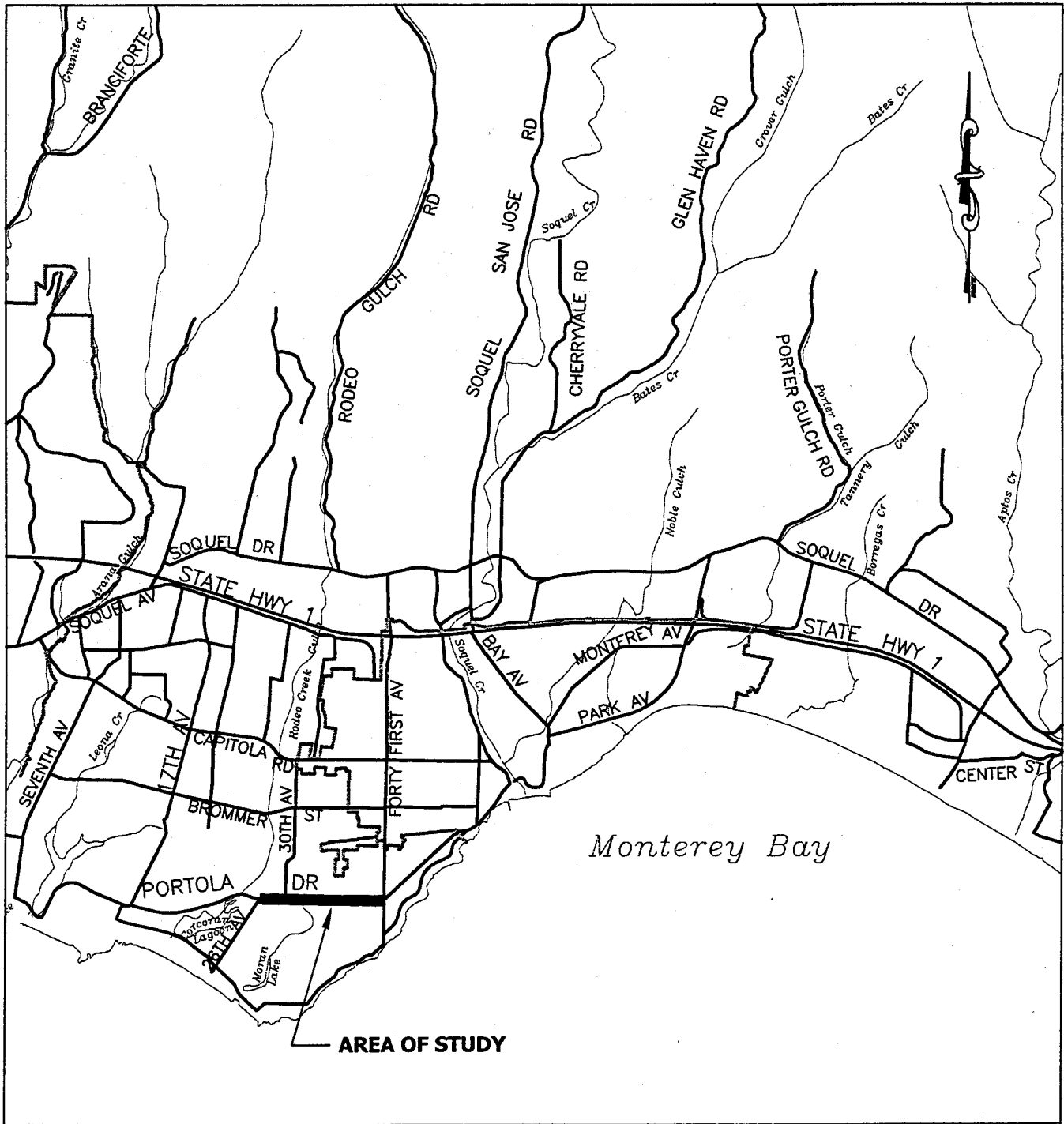
RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Portola Drive				
From:	26th Avenue	43	2	◆◆	100.0%
To:	Coastview Dr.	42	2	◆◆	96.0%
Direction:	Eastbound	41	0		92.0%
Weather:	Sunny	40	1	◆	92.0%
Posted Speed:	35	39	1	◆	90.0%
Begin time:	10:15	38	4	◆◆◆◆	88.0%
End time:	10:45	37	5	◆◆◆◆◆	80.0%
		36	4	◆◆◆◆	70.0%
		35	6	◆◆◆◆◆◆	62.0%
		34	3	◆◆◆	50.0%
		33	5	◆◆◆◆◆	44.0%
		32	8	◆◆◆◆◆◆◆◆	34.0%
		31	2	◆◆	18.0%
		30	2	◆◆	14.0%
		29	2	◆◆	10.0%
CRITICAL SPEED	38	28	1	◆	6.0%
AVERAGE SPEED	34.48	27	1	◆	4.0%
MEDIAN SPEED	34.5	26	1	◆	2.0%
STANDARD DEVIATION	3.93	25	0		0.0%
PACE RANGE	29 - 39	24	0		0.0%
PERCENTAGE IN PACE	82.0%	23	0		0.0%
TOTAL # OF AUTOS	50	22	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION ROCKEF JR. (at COLSON AVE.) BY RR
 ROAD NO 2409 DATE 5/3 DAY Tu. BEGIN 10:15 END 10:52
 POSTED SPEED 35 WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 2% CALIBRATED Y

NUMBER OF VEHICLES					
MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED	
	10:15 10:45 EASTBOUND TO CAPITAL		10:15 10:52 WESTBOUND C		
55+					
54					
53					
52					
51					
50					
49					
48			1		1
47					
46					
45					
44					
43		2			
42		2			
41					
40		1			
39		1			
38		4			3
37		5			5
36		4			1
35		6			4
34		3			11
33		5			6
32		8			5
31		2			11
30		2			2
29		2			1
28		1			2
27		1			1
26		1			1
25					2
24					
23					1
22					
21					
20-					
TOTAL		50	TOTAL		50



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 35th Avenue)

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	33 mph	34 mph
Pace Speed	26-36 mph	24-34 mph
Average Speed	29.42 mph	29.22 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 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. It is recommended that the existing 35 MPH speed limit be decreased to 30 MPH with enforcement activity taking place at speeds above the safe speed.

RADAR SPEED SURVEY

Route:	Portola Drive				
From:	26th Avenue	36	1	◆	100.0%
To:	Forty First Ave.	35	4	◆◆◆◆	98.0%
Direction:	Westbound	34	1	◆	90.0%
Weather:	Sunny	33	3	◆◆◆	88.0%
Posted Speed:	35	32	4	◆◆◆◆	82.0%
Begin time:	11:00	31	5	◆◆◆◆◆	74.0%
End time:	11:33	30	5	◆◆◆◆◆	64.0%
		29	11	◆◆◆◆◆◆◆◆◆◆◆◆	54.0%
		28	3	◆◆◆	32.0%
		27	4	◆◆◆◆	26.0%
		26	2	◆◆	18.0%
		25	3	◆◆◆	14.0%
		24	2	◆◆	8.0%
		23	0		4.0%
		22	1	◆	4.0%
CRITICAL SPEED	33	21	1	◆	2.0%
AVERAGE SPEED	29.42	20	0		0.0%
MEDIAN SPEED	29.0	19	0		0.0%
STANDARD DEVIATION	3.40	18	0		0.0%
PACE RANGE	26 - 36	17	0		0.0%
PERCENTAGE IN PACE	84.0%	16	0		0.0%
TOTAL # OF AUTOS	50	15	0		0.0%

RADAR SPEED SURVEY

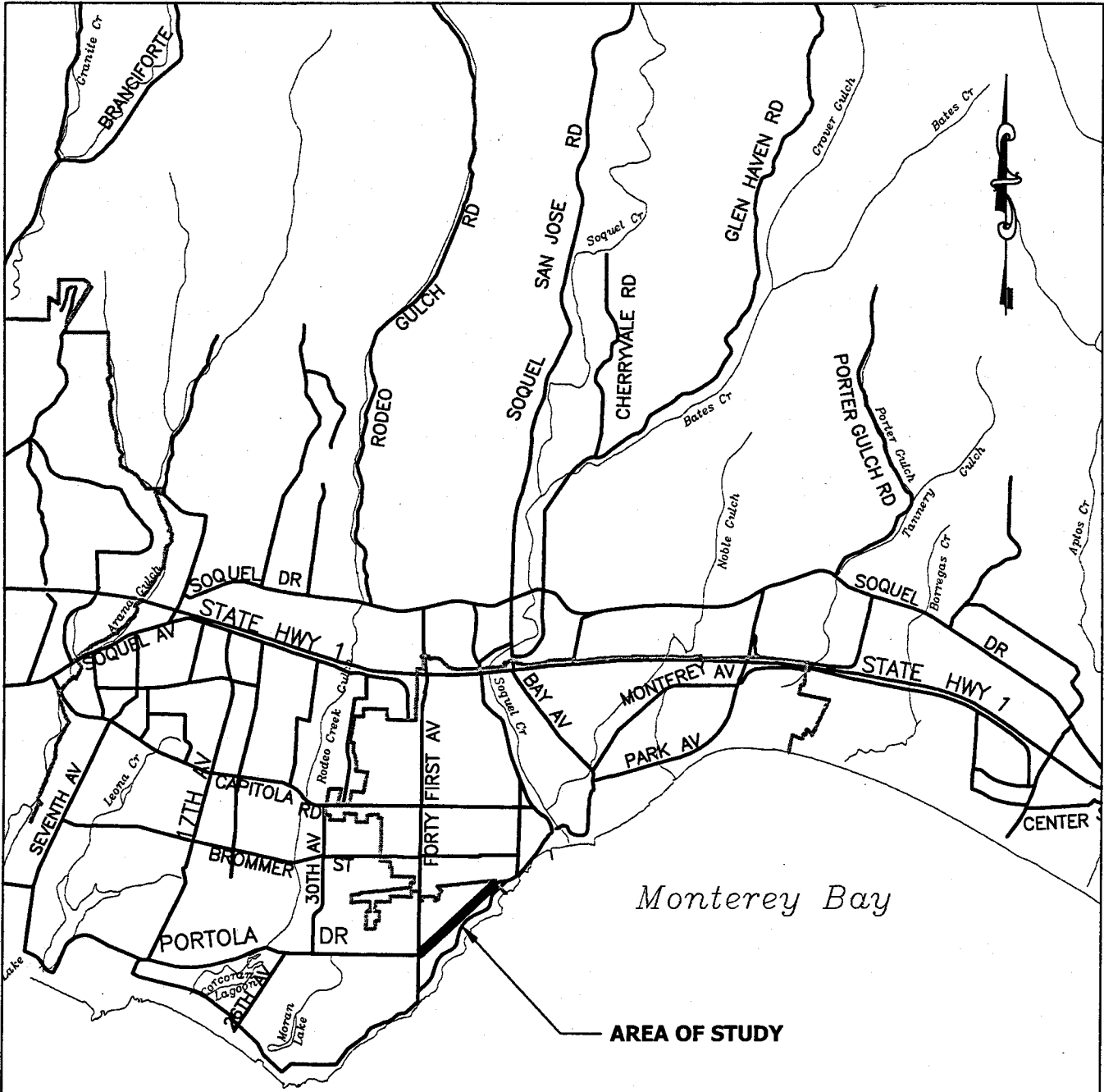
Route:	Portola Drive				
From:	Forty First Ave.				
To:	26th Avenue				
Direction:	Eastbound				
Weather:	Sunny				
Posted Speed:	35				
Begin time:	11:00				
End time:	11:45				
		MPH	# of Vehicles		Percentage
		35	3	◆◆◆	100.0%
		34	3	◆◆◆	94.0%
		33	2	◆◆	88.0%
		32	2	◆◆	84.0%
		31	1	◆	80.0%
		30	10	◆◆◆◆◆◆◆◆◆◆	78.0%
		29	6	◆◆◆◆◆◆	58.0%
		28	12	◆◆◆◆◆◆◆◆◆◆	46.0%
		27	5	◆◆◆◆◆	22.0%
		26	4	◆◆◆◆	12.0%
		25	0		4.0%
		24	1	◆	4.0%
		23	0		2.0%
		22	0		2.0%
		21	0		2.0%
CRITICAL SPEED	34	20	1	◆	2.0%
AVERAGE SPEED	29.22	19	0		0.0%
MEDIAN SPEED	29.0	18	0		0.0%
STANDARD DEVIATION	2.92	17	0		0.0%
PACE RANGE	24 - 34	16	0		0.0%
PERCENTAGE IN PACE	86.0%	15	0		0.0%
TOTAL # OF AUTOS	50	14	0		0.0%

RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION PORTOLA DR. (@ 33rd AVE.) BY RR
 ROAD NO _____ DATE 5/3/04 DAY TU BEGIN 11:00 END 11:45
 POSTED SPEED 35 MPH WEATHER SOON Y
 NUMBER OF LANES 4 GRADE 1% CALIBRATED YES

NUMBER OF VEHICLES

MPH	DIRECTION	TOTAL OF EACH SPEED	DIRECTION	TOTAL OF EACH SPEED
	11:00 TO 11:33 <i>→ SC</i>		11:00 TO 11:45 <i>← TO PORTOLA</i>	
55+				
54				
53				
52				
51				
50				
49				
48				
47				
46				
45				
44				
43				
42				
41				
40				
39				
38				
37				
36				1
35		3		4
34		3		1
33		2		3
32		2		4
31		1		5
30		10		5
29		6		11
28		12		3
27		5		4
26		4		2
25				3
24		1		2
23				
22				1
21				1
20		1		
	TOTAL	50	TOTAL	50



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

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

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 Adrienne Way)

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	34 mph	33 mph
Pace Speed	26-36 mph	25-35 mph
Average Speed	31.04 mph	28.88 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 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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 a popular commercial tourist area. 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:	Capitola City limit	44	1 ◆	100.0%
To:	Forty First Ave.	43	0	98.0%
Direction:	Westbound	42	0	98.0%
Weather:	Overcast	41	0	98.0%
Posted Speed:	25	40	0	98.0%
Begin time:	10:49	39	0	98.0%
End time:	11:25	38	1 ◆	98.0%
		37	1 ◆	96.0%
		36	1 ◆	94.0%
		35	2 ◆◆	92.0%
		34	4 ◆◆◆◆	88.0%
		33	4 ◆◆◆◆	80.0%
		32	8 ◆◆◆◆◆◆◆◆	72.0%
		31	6 ◆◆◆◆◆◆	56.0%
		30	4 ◆◆◆◆	44.0%
CRITICAL SPEED	34	29	8 ◆◆◆◆◆◆◆◆	36.0%
AVERAGE SPEED	31.04	28	2 ◆◆	20.0%
MEDIAN SPEED	31.0	27	3 ◆◆◆	16.0%
STANDARD DEVIATION	3.56	26	4 ◆◆◆◆	10.0%
PACE RANGE	26 - 36	25	0	2.0%
PERCENTAGE IN PACE	90.0%	24	1 ◆	2.0%
TOTAL # OF AUTOS	50	23	0	0.0%

RADAR SPEED SURVEY

Route: Portola Drive
From: Forty First Ave.
To: Capitola City limit
Direction: Eastbound
Weather: Overcast
Posted Speed: 25
Begin time: 10:49
End time: 11:25

CRITICAL SPEED 33
AVERAGE SPEED 28.88
MEDIAN SPEED 29.0
STANDARD DEVIATION 4.02
PACE RANGE 25 - 35
PERCENTAGE IN PACE 88.0%
TOTAL # OF AUTOS 50

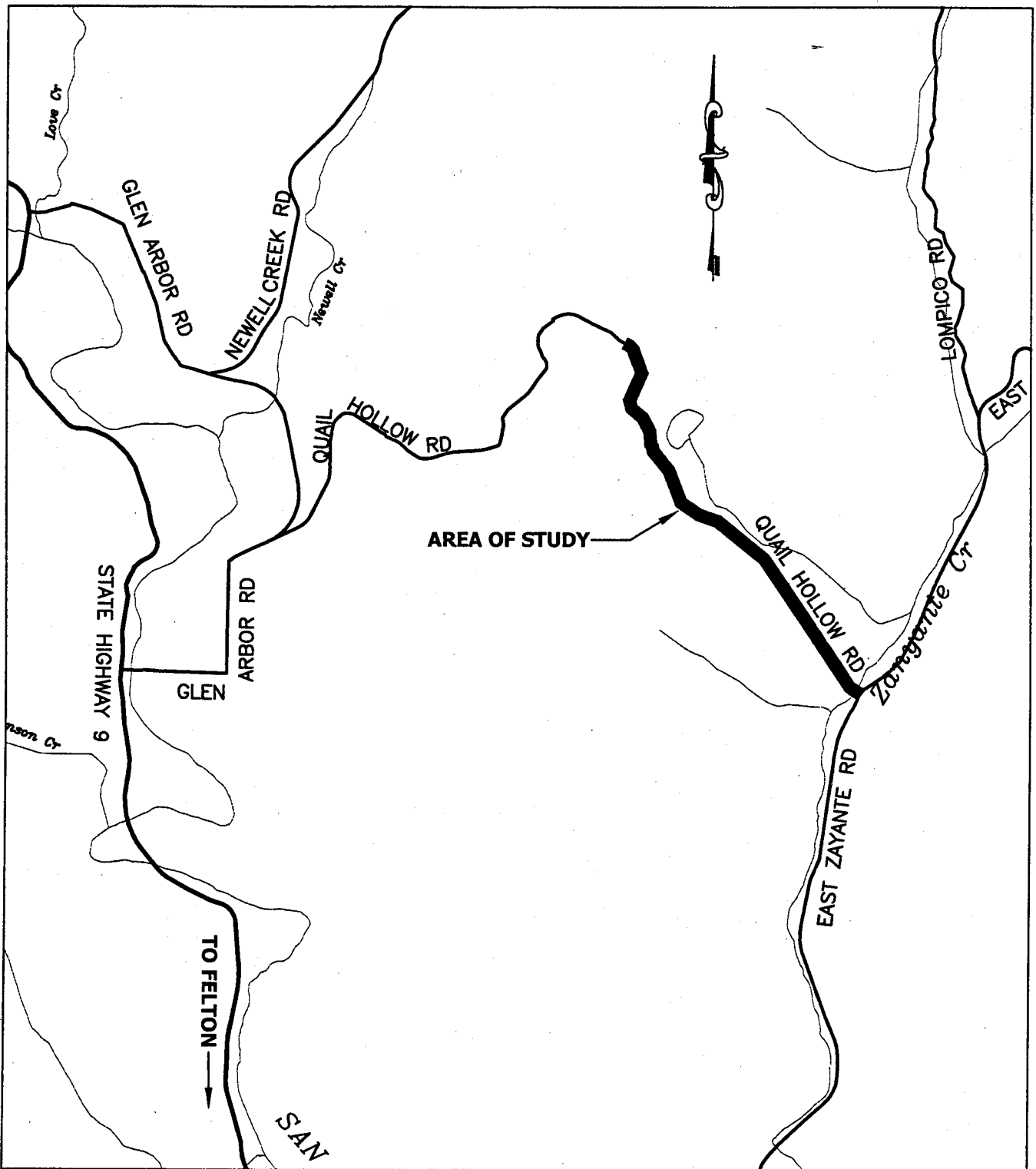
<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
36	1	◆	100.0%
35	0		98.0%
34	4	◆◆◆◆	98.0%
33	5	◆◆◆◆◆	90.0%
32	6	◆◆◆◆◆◆	80.0%
31	5	◆◆◆◆◆	68.0%
30	2	◆◆	58.0%
29	6	◆◆◆◆◆◆	54.0%
28	5	◆◆◆◆◆	42.0%
27	3	◆◆◆	32.0%
26	1	◆	26.0%
25	7	◆◆◆◆◆◆◆	24.0%
24	0		10.0%
23	1	◆	10.0%
22	1	◆	8.0%
21	1	◆	6.0%
20	0		4.0%
19	2	◆◆	4.0%
18	0		0.0%
17	0		0.0%
16	0		0.0%
14	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION PORTOLA DR. @ ADRIENNE WAY BY RE
 ROAD NO _____ DATE 4/25/06 DAY TU. BEGIN 10:49 END 1:25
 POSTED SPEED 25 MPH WEATHER O'CAST
 NUMBER OF LANES 2 GRADE 3 % CALIBRATED FE

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		1		
43				
42				
41				
40				
39				
38		1		
37		1		
36		1		1
35		2		
34		4		4
33		4		4
32		4		4
31		4		4
30		4		4
29		4		4
28		4		4
27		4		4
26		4		1
25				4
24		1		
23				1
22				1
21				1
20-				
1A	TOTAL	50	TOTAL	50



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 a point 1.2 miles east of Glen Arbor Road to East Zayante Road (Speed Data collected near County Park entrance)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Westbound	Eastbound
85 th Percentile	41 mph	43 mph
Pace Speed	33-43 mph	33-43 mph
Average Speed	38.2 mph	38.6 mph

ANALYSIS:

The prevailing 85th percentile speeds are 41 MPH and 43 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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 without sidewalks. It is recommended that the existing 35 MPH speed limit remain as posted 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	49	1	◆	100.0%
From:	East Zayante Road	48	0		98.0%
To:	1.2 mi East of Glen Arbor Rd	47	0		98.0%
Direction:	Westbound	46	2	◆◆	98.0%
Weather:	Sunny	45	1	◆	94.0%
Posted Speed:	35	44	0		92.0%
Begin time:	2:44	43	1	◆	92.0%
End time:	3:15	42	2	◆◆	90.0%
		41	4	◆◆◆◆	86.0%
		40	3	◆◆◆	78.0%
		39	8	◆◆◆◆◆◆◆◆	72.0%
		38	7	◆◆◆◆◆◆◆	56.0%
		37	4	◆◆◆◆	42.0%
		36	5	◆◆◆◆◆	34.0%
		35	7	◆◆◆◆◆◆◆	24.0%
		34	1	◆	10.0%
		33	3	◆◆◆	8.0%
		32	0		2.0%
		31	1	◆	2.0%
		30	0		0.0%
		29	0		0.0%
		28	0		0.0%
CRITICAL SPEED	41				
AVERAGE SPEED	38.24				
MEDIAN SPEED	38.0				
STANDARD DEVIATION	3.60				
PACE RANGE	33 - 43				
PERCENTAGE IN PACE	88.0%				
TOTAL # OF AUTOS	50				

RADAR SPEED SURVEY

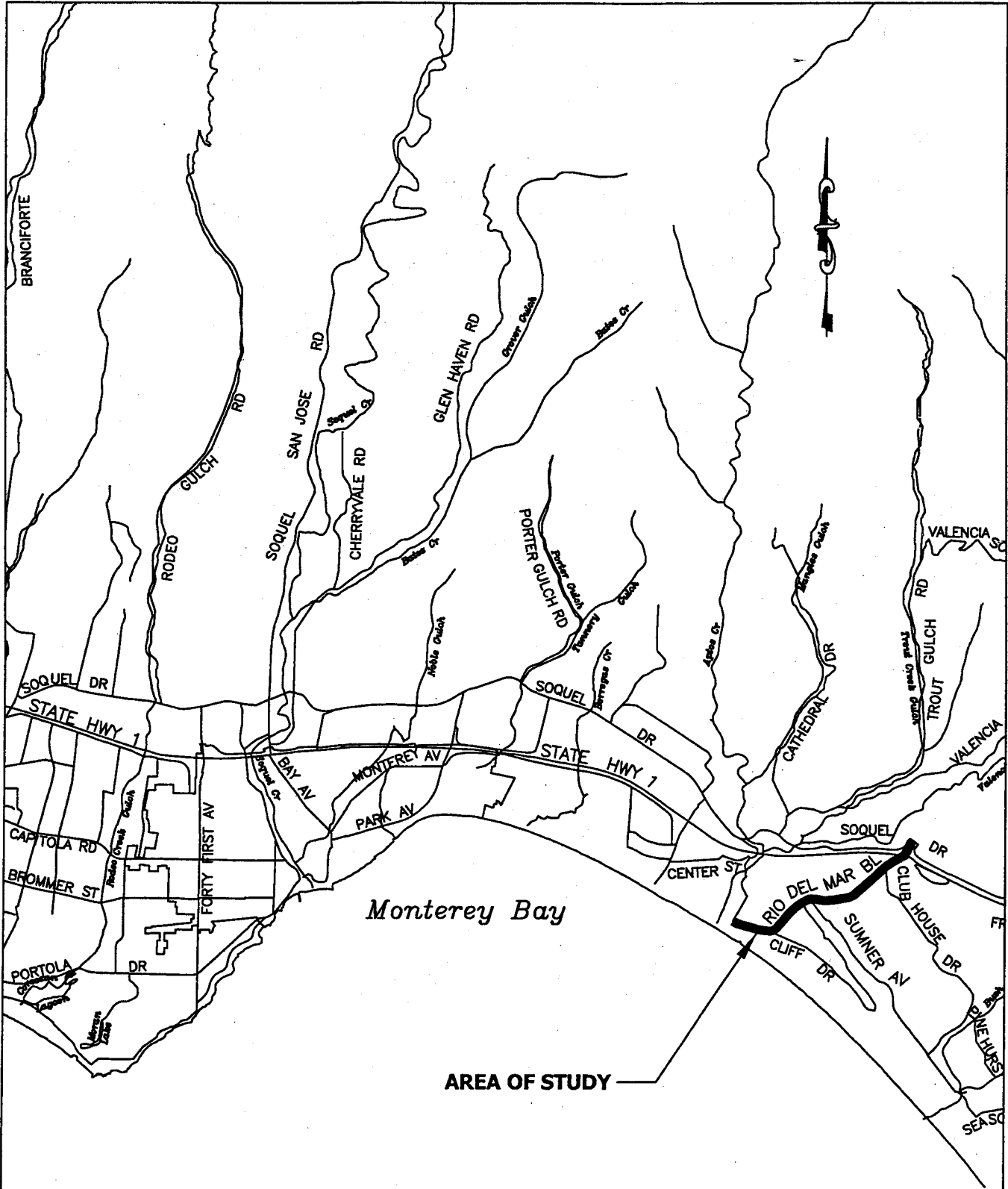
		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Quail Hollow Road				
From:	1.2 mi East of Glen Arbor Rd	48	1	◆	100.0%
To:	East Zayante Road	47	1	◆	98.0%
Direction:	EastBound	46	2	◆◆	96.0%
Weather:	Sunny	45	3	◆◆◆	92.0%
Posted Speed:	35	44	0		86.0%
Begin time:	2:44	43	1	◆	86.0%
End time:	3:15	42	2	◆◆	84.0%
		41	5	◆◆◆◆◆	80.0%
		40	7	◆◆◆◆◆◆◆	70.0%
		39	1	◆	56.0%
		38	2	◆◆	54.0%
		37	9	◆◆◆◆◆◆◆◆◆	50.0%
		36	4	◆◆◆◆	32.0%
		35	4	◆◆◆◆	24.0%
		34	2	◆◆	16.0%
CRITICAL SPEED	43	33	5	◆◆◆◆◆	12.0%
AVERAGE SPEED	38.60	32	0		2.0%
MEDIAN SPEED	37.5	31	1	◆	2.0%
STANDARD DEVIATION	4.13	30	0		0.0%
PACE RANGE	33 - 43	29	0		0.0%
PERCENTAGE IN PACE	82.0%	28	0		0.0%
TOTAL # OF AUTOS	50	27	0		0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION Quail Hollow Rd @ 1.4 East of Glen Arbor BY TN
 ROAD NO _____ DATE 5/11/05 DAY Wed BEGIN 2:44 END 3:15
 POSTED SPEED 35 MPH WEATHER Sunny
 NUMBER OF LANES 2 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

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



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 between Soquel Drive and 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	32 mph	32 mph
Pace Speed	23-33 mph	23-33 mph
Average Speed	27.42 mph	25.82 mph

ANALYSIS:

The prevailing 85th percentile speed is 32 MPH in both directions. 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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 pedestrians 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:	Rio Del Mar Blvd				
From:	Esplanade	37	1	◆	100.0%
To:	Soquel Dr.	36	0		98.0%
Direction:	Northbound	35	1	◆	98.0%
Weather:	Sunny	34	1	◆	96.0%
Posted Speed:	25	33	0		94.0%
Begin time:	12:46	32	5	◆◆◆◆◆	94.0%
End time:	1:40	31	3	◆◆◆	84.0%
		30	5	◆◆◆◆◆	78.0%
		29	2	◆◆	68.0%
		28	3	◆◆◆	64.0%
		27	8	◆◆◆◆◆◆◆◆	58.0%
		26	3	◆◆◆	42.0%
		25	6	◆◆◆◆◆◆	36.0%
		24	6	◆◆◆◆◆◆	24.0%
		23	2	◆◆	12.0%
		22	3	◆◆◆	8.0%
CRITICAL SPEED	32	21	0		2.0%
AVERAGE SPEED	27.42	20	1	◆	2.0%
MEDIAN SPEED	27.0	19	0		0.0%
STANDARD DEVIATION	3.70	18	0		0.0%
PACE RANGE	23 - 33	17	0		0.0%
PERCENTAGE IN PACE	86.0%	16	0		0.0%
TOTAL # OF AUTOS	50				

RADAR SPEED SURVEY

		<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
Route:	Rio Del Mar Blvd				
From:	Soquel Dr.	33	1	◆	100.0%
To:	Esplanade	32	5	◆◆◆◆◆	98.0%
Direction:	Southbound	31	2	◆◆	88.0%
Weather:	Sunny	30	1	◆	84.0%
Posted Speed:	25	29	3	◆◆◆	82.0%
Begin time:	12:46	28	3	◆◆◆	76.0%
End time:	1:23	27	5	◆◆◆◆◆	70.0%
		26	4	◆◆◆◆	60.0%
		25	8	◆◆◆◆◆◆◆◆	52.0%
		24	2	◆◆	36.0%
		23	6	◆◆◆◆◆◆	32.0%
		22	5	◆◆◆◆◆	20.0%
		21	2	◆◆	10.0%
		20	1	◆	6.0%
		19	2	◆◆	4.0%
CRITICAL SPEED	32	18	0		0.0%
AVERAGE SPEED	25.82	17	0		0.0%
MEDIAN SPEED	25.0	16	0		0.0%
STANDARD DEVIATION	3.70	15	0		0.0%
PACE RANGE	23 - 33		0		0.0%
PERCENTAGE IN PACE	78.0%		0		0.0%
TOTAL # OF AUTOS	50		0		0.0%

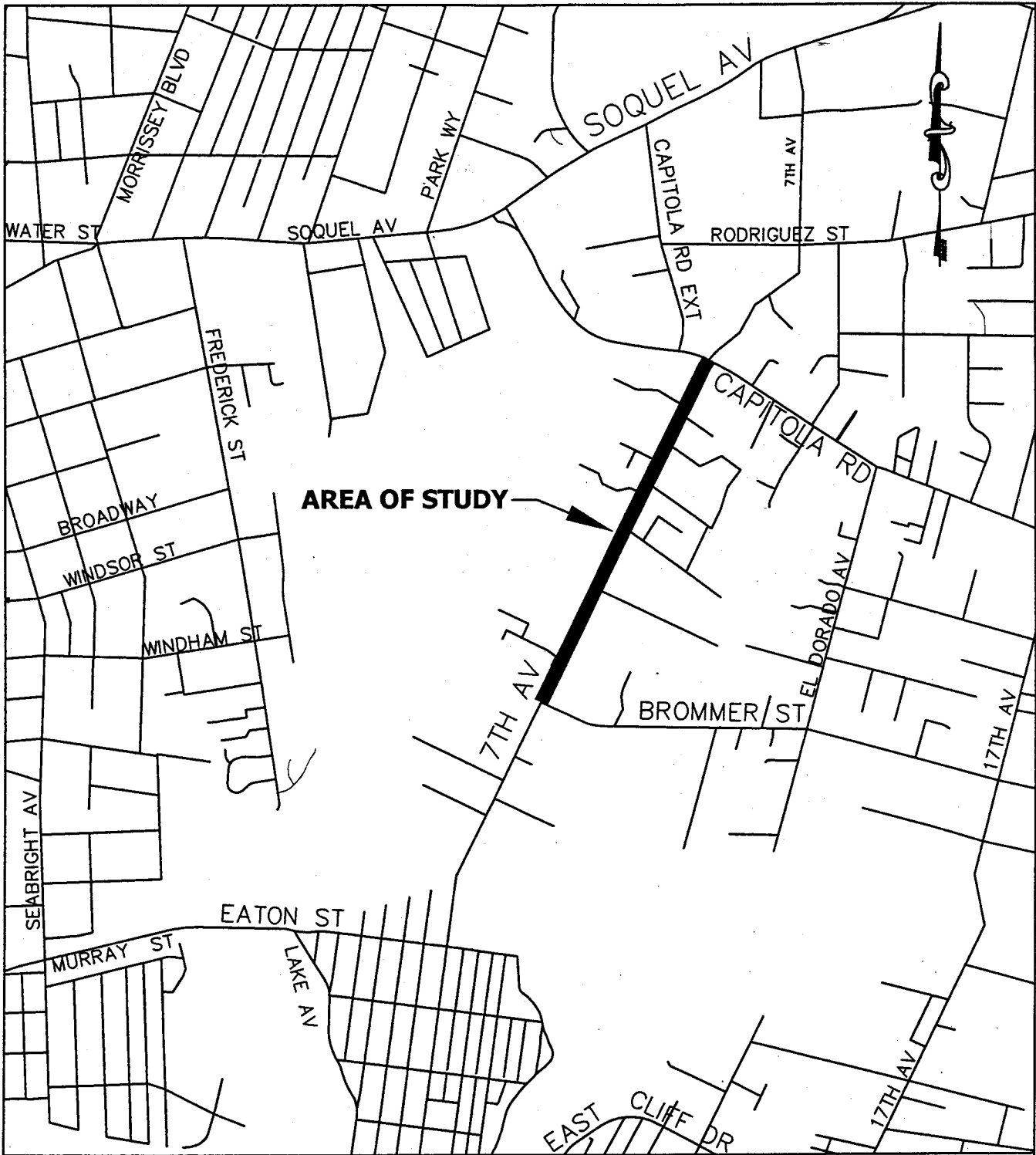
RADAR SPEED SURVEY
Santa Cruz County
Department of Public Works

LOCATION RIO DEL MAR @ CLAUDIUS DR BY RR
 ROAD NO 2510 DATE 4/26 DAY TU BEGIN 12:40 END 1:40
 POSTED SPEED 25 MPH WEATHER SUNNY
 NUMBER OF LANES 2 GRADE 3% CALIBRATED YES

NUMBER OF VEHICLES						
MPH	DIRECTION 12:40 1:40	← HWY 1 NORTHBOUND	TOTAL OF EACH SPEED	DIRECTION 12:40 1:23	→ HWY 1 SOUTHBOUND	TOTAL OF EACH SPEED
55+						
54						
53						
52						
51						
50						
49						
48						
47						
46						
45						
44						
43						
42						
41						
40						
39						
38						
37			1			
36						
35			1			
34			1			
33				1		1
32			5			5
31			3			3
30			4			4
29			2			3
28			3			3
27			5			5
26			3			4
25			6			8
24			6			2
23			2			6
22			3			5
21						2
20			1			1
			TOTAL 50			TOTAL 2

41, 42, 43, 44, 45, 46, 49

50



AREA OF STUDY

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

TRAFFIC AND ENGINEERING REPORT

JUNE 2006

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 0.2 mi. north of Brommer Street)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	33 mph	32 mph
Pace Speed	25-35 mph	23-33 mph
Average Speed	28.8 mph	27.4 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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:	Brommer St	38	2	◆◆
To:	Capitola Road	37	0	
Direction:	Northbound	36	1	◆
Weather:	Overcast	35	0	
Posted Speed:	25	34	3	◆◆◆
Begin time:	10:20 AM	33	5	◆◆◆◆
End time:	10:41 AM	32	9	◆◆◆◆◆◆◆◆◆
		31	4	◆◆◆◆
		30	8	◆◆◆◆◆◆◆
		29	7	◆◆◆◆◆◆
		28	7	◆◆◆◆◆◆
		27	9	◆◆◆◆◆◆◆◆◆
		26	5	◆◆◆◆
		25	4	◆◆◆◆
		24	1	◆
		23	2	◆◆
CRITICAL SPEED	33	22	4	◆◆◆◆
AVERAGE SPEED	28.79	21	1	◆
MEDIAN SPEED	29.0	20	1	◆
STANDARD DEVIATION	3.83	19	0	
PACE RANGE	25 - 35	18	0	
PERCENTAGE IN PACE	83.6%	17	0	
TOTAL # OF AUTOS	73	16	0	
				Percentage
				100.0%
				97.3%
				97.3%
				95.9%
				95.9%
				91.8%
				84.9%
				72.6%
				67.1%
				56.2%
				46.6%
				37.0%
				24.7%
				17.8%
				12.3%
				11.0%
				8.2%
				2.7%
				1.4%
				0.0%
				0.0%
				0.0%

RADAR SPEED SURVEY

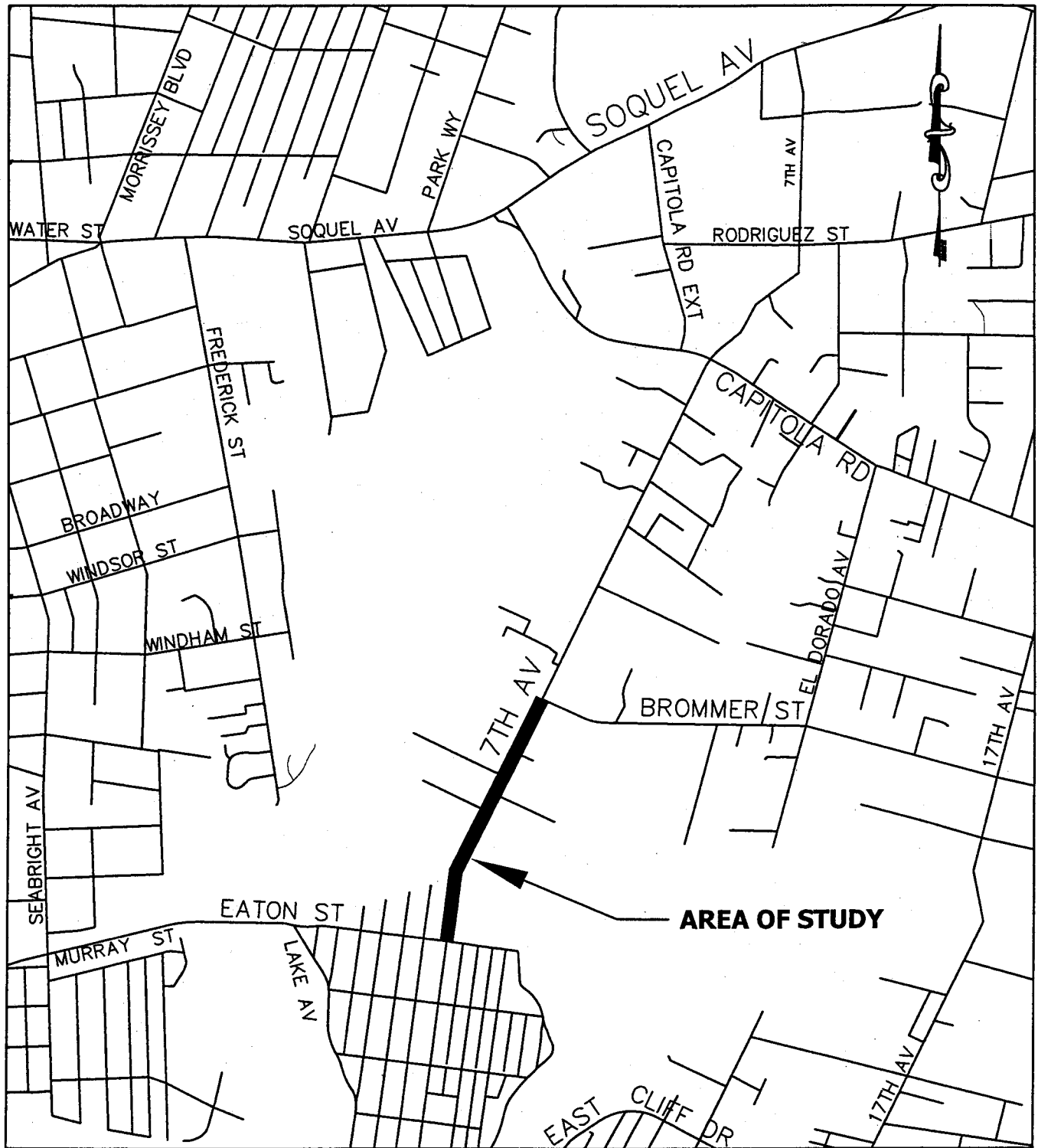
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
Route:	7th Avenue			
From:	Capitola Rd	38	0	100.0%
To:	Brommer St	37	0	100.0%
Direction:	Southbound	36	0	100.0%
Weather:	Overcast	35	2 ♦♦	100.0%
Posted Speed:	25	34	1 ♦	96.6%
Begin time:	10:20 AM	33	1 ♦	94.9%
End time:	10:41 AM	32	5 ♦♦♦♦♦	93.2%
		31	0	84.7%
		30	5 ♦♦♦♦♦	84.7%
		29	8 ♦♦♦♦♦♦♦♦	76.3%
		28	7 ♦♦♦♦♦♦♦	62.7%
		27	6 ♦♦♦♦♦♦	50.8%
		26	6 ♦♦♦♦♦♦	40.7%
		25	7 ♦♦♦♦♦♦♦	30.5%
		24	4 ♦♦♦♦	18.6%
CRITICAL SPEED	32	23	2 ♦♦	11.9%
AVERAGE SPEED	27.36	22	2 ♦♦	8.5%
MEDIAN SPEED	27.0	21	0	5.1%
STANDARD DEVIATION	3.51	20	3 ♦♦♦	5.1%
PACE RANGE	23 - 33	19	0	0.0%
PERCENTAGE IN PACE	84.7%	18	0	0.0%
TOTAL # OF AUTOS	59	17	0	0.0%
		16	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 7TH CAPITOLA TO BROMNER BY GJM
 ROAD NO. 2402 DATE 12/13/05 DAY 12/13/05 BEGIN 10:20 END 10:41
 POSTED SPEED 25 WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 0% CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION → CAPITOLA	TOTAL OF EACH SPEED	DIRECTION ← BROMNER	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	//	2		
37				
36	/	1		
35			//	2
34	///	3	/	1
33	////	5	/	1
32	//////	9	////	5
31	////	4		0
30	//////	8	////	5
29	//////	7	//////	8
28	//////	7	//////	7
27	//////	9	//////	6
26	////	5	////	6
25	////	4	////	7
24	/	1	///	4
23	//	2	//	2
22	///	4	//	2
21	/	1		0
20	/	1	///	3
TOTAL		73	TOTAL	
			59	



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 Mello Lane)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	33 mph	33 mph
Pace Speed	25-35 mph	24-34 mph
Average Speed	29.4 mph	29.6 mph

ANALYSIS:

The prevailing 85th percentile speeds are 33 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 25 MPH. The factors justifying a further reduction are prima-facie residential and business districts, bike lanes, pedestrians, major arterial with regional access to beach and harbor, numerous driveways and reduced 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: Eaton St
To: Brommer St
Direction: Northbound
Weather: Overcast
Posted Speed: 25
Begin time: 10:50 AM
End time: 11:10 AM

CRITICAL SPEED 33
AVERAGE SPEED 29.43
MEDIAN SPEED 30.0
STANDARD DEVIATION 3.47
PACE RANGE 25 - 35
PERCENTAGE IN PACE 84.6%
TOTAL # OF AUTOS 65

<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
38	0	100.0%
37	0	100.0%
36	1	100.0%
35	2	98.5%
34	3	95.4%
33	7	90.8%
32	7	80.0%
31	10	69.2%
30	7	53.8%
29	5	43.1%
28	3	35.4%
27	4	30.8%
26	6	24.6%
25	3	15.4%
24	3	10.8%
23	2	6.2%
22	2	3.1%
21	0	0.0%
20	0	0.0%
19	0	0.0%
18	0	0.0%
17	0	0.0%
16	0	0.0%

RADAR SPEED SURVEY

Route: 7th Avenue
From: Brommer St
To: Eaton St
Direction: Southbound
Weather: Overcast
Posted Speed: 25
Begin time: 10:50 AM
End time: 11:10 AM

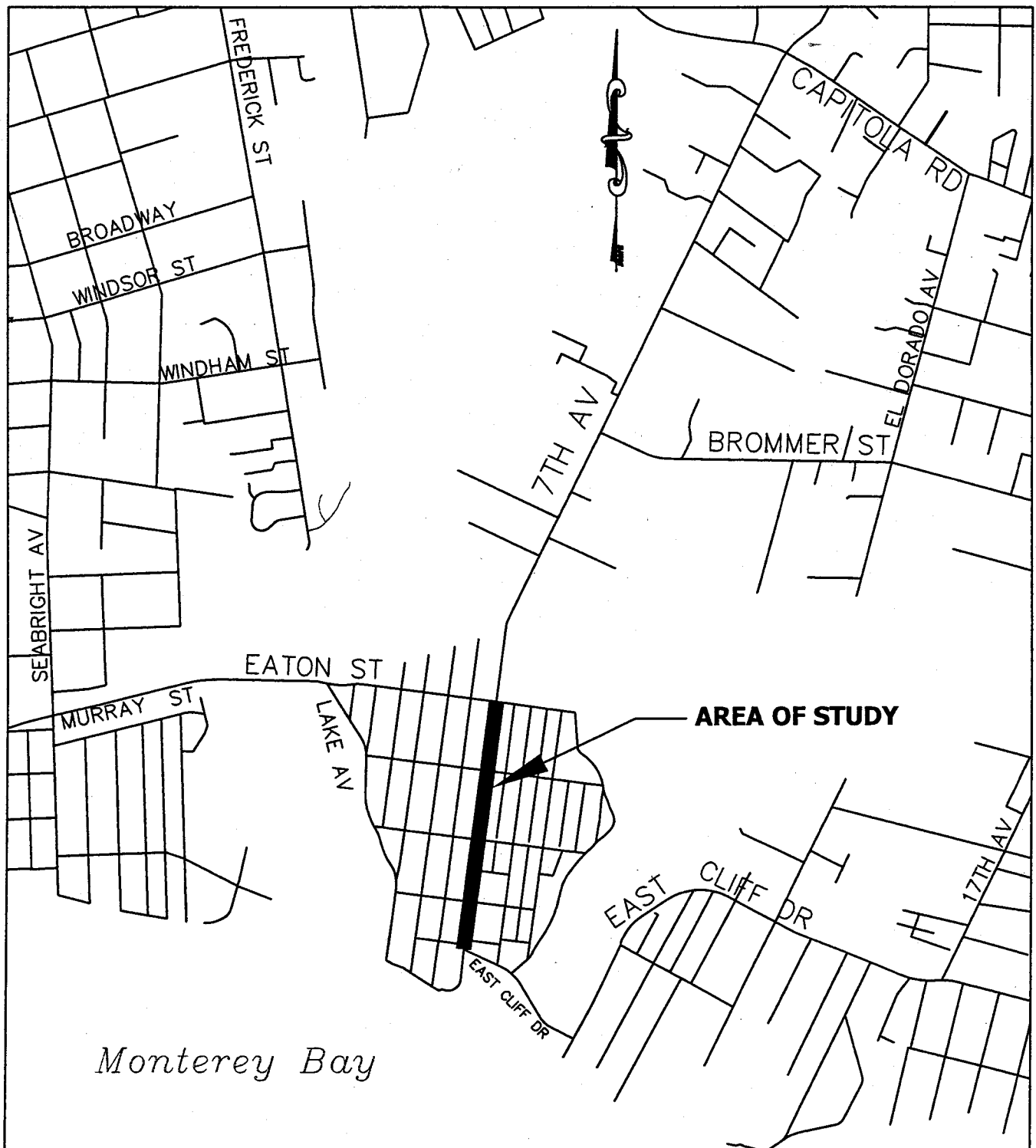
	<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
	39	1 ♦	100.0%
	38	1 ♦	98.7%
	37	2 ♦♦	97.4%
	36	1 ♦	94.7%
	35	4 ♦♦♦♦	93.4%
	34	1 ♦	88.2%
	33	3 ♦♦♦	86.8%
	32	6 ♦♦♦♦♦♦	82.9%
	31	10 ♦♦♦♦♦♦♦♦♦♦	75.0%
	30	8 ♦♦♦♦♦♦♦♦	61.8%
	29	9 ♦♦♦♦♦♦♦♦♦	51.3%
	28	7 ♦♦♦♦♦♦♦	39.5%
	27	9 ♦♦♦♦♦♦♦♦♦	30.3%
	26	6 ♦♦♦♦♦♦	18.4%
	25	2 ♦♦	10.5%
	24	5 ♦♦♦♦♦	7.9%
	23	1 ♦	1.3%
	22	0	0.0%
	21	0	0.0%
	20	0	0.0%
	19	0	0.0%
	18	0	0.0%
	17	0	0.0%
CRITICAL SPEED	33		
AVERAGE SPEED	29.62		
MEDIAN SPEED	29.0		
STANDARD DEVIATION	3.54		
PACE RANGE	24 - 34		
PERCENTAGE IN PACE	85.5%		
TOTAL # OF AUTOS	76		

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 7TH BROMMER TO EATON BY GM
 ROAD NO 2402 DATE 12/13/05 DAY 12/13/05 BEGIN 10:50 END 11:10
 POSTED SPEED 25 WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 0% CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION → <u>BROMMER</u>	TOTAL OF EACH SPEED	DIRECTION → <u>EATON</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			/	1
37			//	2
36	/	1	/	1
35	//	2	////	4
34	//	3	/	1
33	//////	7	///	3
32	//////	7	//////	6
31	//////	10	//////	10
30	//////	7	//////	8
29	//////	5	//////	9
28	///	3	//////	7
27	///	4	//////	9
26	//////	6	//////	6
25	///	3	//	2
24	///	3	////	5
23	//	2	/	1
22	//	2		
21				
20-				
	TOTAL	65	TOTAL	76



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 0.1 mi south of Eaton Street)

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	24-34 mph
Average Speed	27.1 mph	28.5 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 Manual on Uniform Traffic Control Devices 2003 California Supplement 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	35	0		100.0%
From:	East Cliff Drive	34	0		100.0%
To:	Eaton St	33	0		100.0%
Direction:	Northbound	32	5	◆◆◆◆◆	100.0%
Weather:	Overcast	31	4	◆◆◆◆	92.9%
Posted Speed:	25	30	6	◆◆◆◆◆	87.1%
Begin time:	11:15 AM	29	7	◆◆◆◆◆◆	78.6%
End time:	11:32 AM	28	10	◆◆◆◆◆◆◆◆	68.6%
		27	8	◆◆◆◆◆◆◆	54.3%
		26	12	◆◆◆◆◆◆◆◆◆◆	42.9%
		25	7	◆◆◆◆◆◆◆	25.7%
		24	3	◆◆◆	15.7%
		23	4	◆◆◆◆	11.4%
		22	2	◆◆	5.7%
		21	1	◆	2.9%
CRITICAL SPEED	30	20	1	◆	1.4%
AVERAGE SPEED	27.13	19	0		0.0%
MEDIAN SPEED	27.0	18	0		0.0%
STANDARD DEVIATION	2.81	17	0		0.0%
PACE RANGE	23 - 33	16	0		0.0%
PERCENTAGE IN PACE	94.3%	15	0		0.0%
TOTAL # OF AUTOS	70		0		
			0		

RADAR SPEED SURVEY

Route: 7th Avenue
From: Eaton St
To: East Cliff Drive
Direction: Southbound
Weather: Overcast
Posted Speed: 25
Begin time: 11:15 AM
End time: 11:32 AM

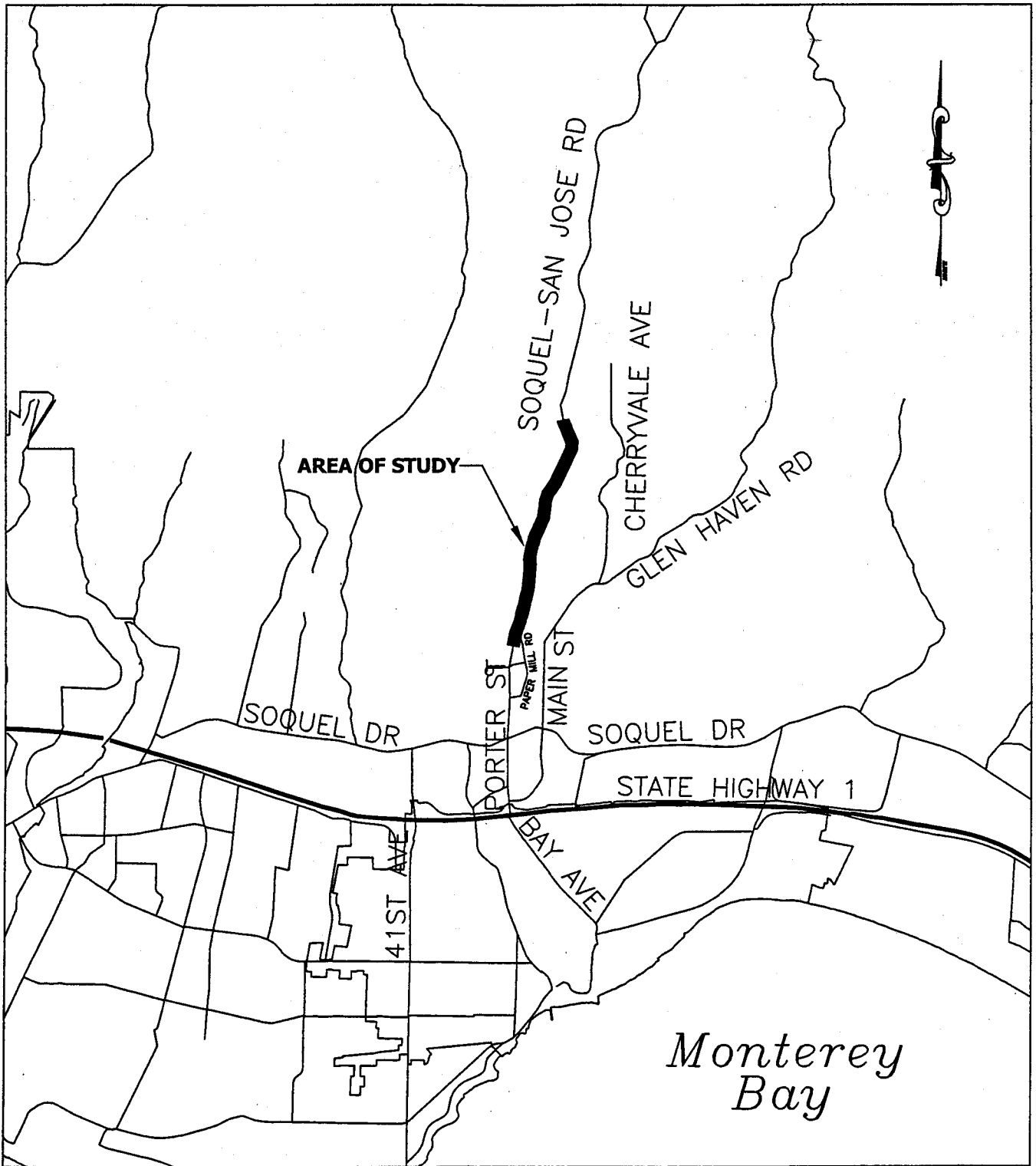
		<u>MPH</u>	<u># of Vehicles</u>	<u>Percentage</u>
		40	0	100.0%
		39	0	100.0%
		38	0	100.0%
		37	1 ◆	100.0%
		36	1 ◆	98.4%
		35	2 ◆◆	96.7%
		34	2 ◆◆	93.4%
		33	1 ◆	90.2%
		32	4 ◆◆◆◆	88.5%
		31	5 ◆◆◆◆◆	82.0%
		30	6 ◆◆◆◆◆◆	73.8%
		29	7 ◆◆◆◆◆◆◆	63.9%
		28	6 ◆◆◆◆◆◆	52.5%
		27	7 ◆◆◆◆◆◆◆	42.6%
		26	8 ◆◆◆◆◆◆◆◆	31.1%
CRITICAL SPEED	32	25	5 ◆◆◆◆◆	18.0%
AVERAGE SPEED	28.54	24	4 ◆◆◆◆	9.8%
MEDIAN SPEED	28.0	23	1 ◆	3.3%
STANDARD DEVIATION	3.34	22	1 ◆	1.6%
PACE RANGE	24 - 34	21	0	0.0%
PERCENTAGE IN PACE	86.9%	20	0	0.0%
TOTAL # OF AUTOS	61	19	0	0.0%
		18	0	0.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

LOCATION 7TH EATON TO E. CLIFF BY GM
 ROAD NO 2402 DATE 12/13/05 DAY TUES BEGIN 11:15 END 11:32
 POSTED SPEED 25 WEATHER OVERCAST
 NUMBER OF LANES 2 GRADE 0% CALIBRATED Y

NUMBER OF VEHICLES

MPH	DIRECTION → EATON	TOTAL OF EACH SPEED	DIRECTION → E. CLIFF	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			/	1
36			/	1
35			//	2
34			//	2
33			/	1
32	////	5	////	4
31	////	4	////	5
30	////	6	////	6
29	////	7	////	7
28	////	10	////	6
27	////	8	////	7
26	////	12	////	8
25	////	7	////	5
24	///	3	///	4
23	///	4	/	1
22	//	2	/	1
21	/	1		
20	/	1		
	TOTAL	70	TOTAL	61



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 mi to 1.4 mi north of Soquel Drive (Speed Data collected at the Shauna Court intersection.)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	43 mph	43 mph
Pace Speed	35-45 mph	35-45 mph
Average Speed	39 mph	39 mph

ANALYSIS:

The prevailing 85th percentile speeds are 43 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. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment as provided for in the Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 35 MPH. The factors justifying a further reduction are a safe stopping sight distance, numerous driveways, horizontal curves along Soquel-San Jose Road, an accident record, shoulder conditions with pedestrian traffic in the roadway without sidewalks and nearby schools. 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 San Jose Road
From: 0.4 mi north of Soquel Dr.
To: 1.4 mi north of Soquel Dr.
Direction: Northbound
Weather: Overcast
Posted Speed: 35
Begin time: 10:40
End time: 11:10

CRITICAL SPEED 43
AVERAGE SPEED 39.04
MEDIAN SPEED 38.0
STANDARD DEVIATION 3.34
PACE RANGE 35 - 45
PERCENTAGE IN PACE 92.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
48	2	◆◆	100.0%
47	0		96.0%
46	0		96.0%
45	0		96.0%
44	5	◆◆◆◆◆	96.0%
43	2	◆◆	86.0%
42	2	◆◆	82.0%
41	1	◆	78.0%
40	5	◆◆◆◆◆	76.0%
39	7	◆◆◆◆◆◆◆	66.0%
38	10	◆◆◆◆◆◆◆◆◆◆	52.0%
37	6	◆◆◆◆◆◆	32.0%
36	3	◆◆◆	20.0%
35	5	◆◆◆◆◆	14.0%
34	1	◆	4.0%
33	1	◆	2.0%
32	0		0.0%
31	0		0.0%
30	0		0.0%
29	0		0.0%
28	0		0.0%
27	0		0.0%

RADAR SPEED SURVEY

Route: Soquel San Jose Road
From: 1.4 mi north of Soquel Dr.
To: 0.4 mi north of Soquel Dr.
Direction: Southbound
Weather: Overcast
Posted Speed: 35
Begin time: 10:40
End time: 11:10

CRITICAL SPEED 43
AVERAGE SPEED 39.06
MEDIAN SPEED 38.0
STANDARD DEVIATION 3.72
PACE RANGE 35 - 45
PERCENTAGE IN PACE 84.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
49	1	◆	100.0%
48	0		98.0%
47	1	◆	98.0%
46	2	◆◆	96.0%
45	0		92.0%
44	2	◆◆	92.0%
43	3	◆◆◆	88.0%
42	5	◆◆◆◆◆	82.0%
41	1	◆	72.0%
40	2	◆◆	70.0%
39	6	◆◆◆◆◆◆	66.0%
38	14	◆◆◆◆◆◆◆◆◆◆◆◆◆◆	54.0%
37	0		26.0%
36	2	◆◆	26.0%
35	7	◆◆◆◆◆◆◆	22.0%
34	2	◆◆	8.0%
33	2	◆◆	4.0%
32	0		0.0%
31	0		0.0%
30	0		0.0%
29	0		0.0%
28	0		0.0%

RADAR SPEED SURVEY

Santa Cruz County

Department of Public Works

@ Skanska Ct.

LOCATION Soquel San Jose Rd. 1.0mi-1.4mi North of Soquel Dr BY TN

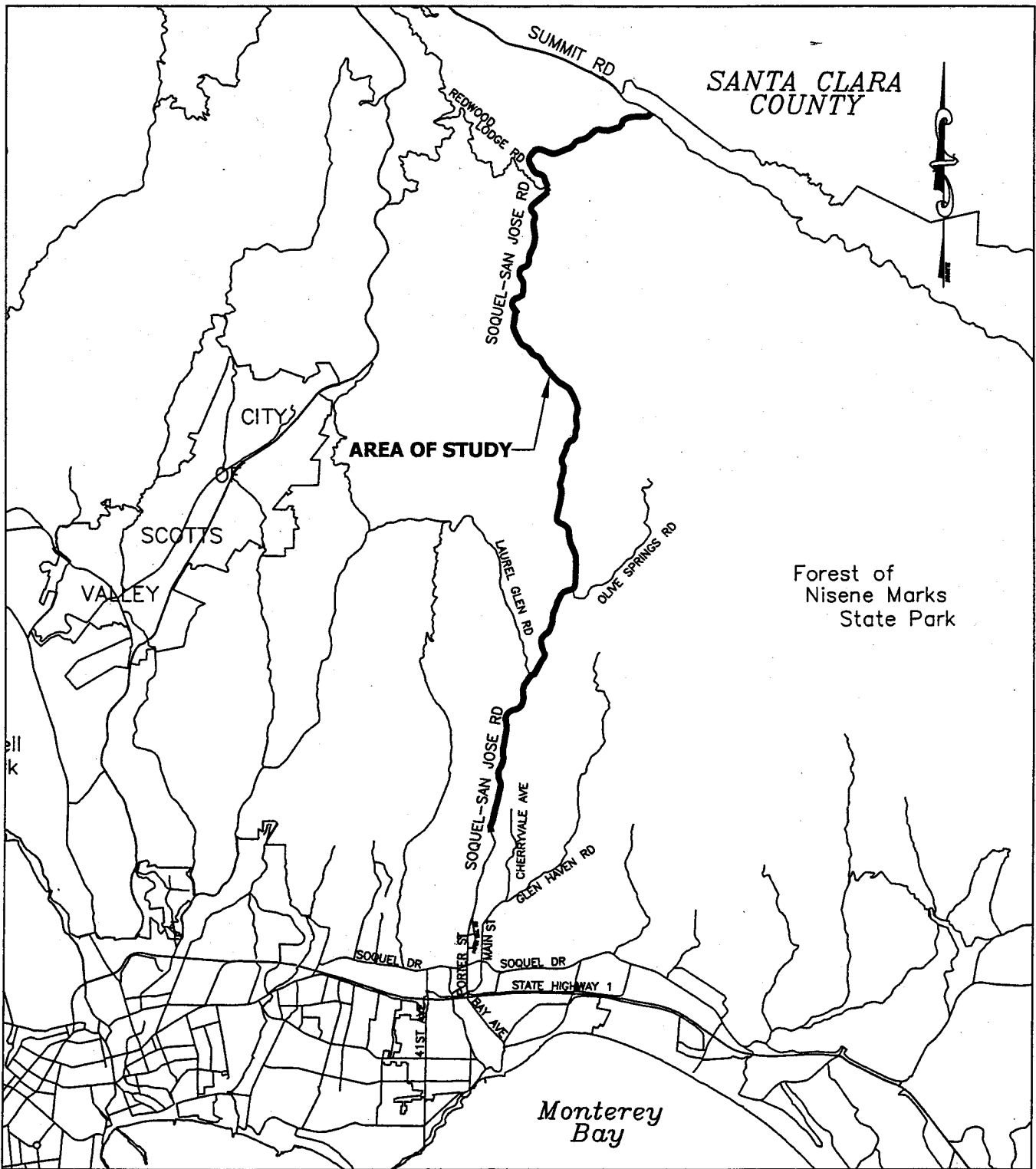
ROAD NO _____ DATE 5/18/05 DAY Wed BEGIN 10:40 END 11:10

POSTED SPEED 35 mph WEATHER Overcast

NUMBER OF LANES 2 GRADE <10% CALIBRATED ✓

NUMBER OF VEHICLES

MPH	DIRECTION <u>South (To Soquel Dr)</u>	TOTAL OF EACH SPEED	DIRECTION <u>North (To Summit Rd)</u>	TOTAL OF EACH SPEED
60				
59				
58				
57				
56				
55				
54				
53				
52				
51				
50				
49		1		
48				2
47		1		
46		2		
45				
44		2	###	5
43		3		2
42	###	5		2
41		1		1
40		2	###	5
39	###	6	###	7
38	### ###	14	### ###	10
37			###	6
36		2		3
35	###	7	###	5
34		2		1
33		2		1
32				
31				
30				
29				
28				
27				
26				
25				
24				
23				
22				
21				
20				
	TOTAL	50	TOTAL	50



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

TRAFFIC AND ENGINEERING REPORT
JUNE 2006

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 mi north of Soquel Drive to Summit Road (Speed data collected at mile post 6.0)

PREVAILING SPEED DATA:

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

The prevailing speeds are:

Direction	Northbound	Southbound
85 th Percentile	46 mph	47 mph
Pace Speed	37-47 mph	38-48 mph
Average Speed	41.3 mph	44.3 mph

ANALYSIS:

The prevailing 85th percentile speeds are 46 MPH and 47 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 Manual on Uniform Traffic Control Devices 2003 California Supplement indicates a further reduction of five miles per hour to 40 MPH. The factors justifying a further reduction are an accident record, safe stopping sight distance, deer areas, adjacent public and private schools, the Seventh Day Adventist Conference and Campground, curves along Soquel-San Jose Road, 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: Soquel San Jose Road
From: 1.4 mi north of Soquel Dr.
To: Summit Road
Direction: Northbound
Weather: Overcast
Posted Speed: 40mph
Begin time: 11:17
End time: 11:47

CRITICAL SPEED 46
AVERAGE SPEED 41.32
MEDIAN SPEED 41.0
STANDARD DEVIATION 4.98
PACE RANGE 37 - 47
PERCENTAGE IN PACE 78.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
52	2	◆◆	100.0%
51	1	◆	96.0%
50	1	◆	94.0%
49	1	◆	92.0%
48	1	◆	90.0%
47	0		88.0%
46	3	◆◆◆	88.0%
45	6	◆◆◆◆◆◆	82.0%
44	0		70.0%
43	5	◆◆◆◆◆	70.0%
42	3	◆◆◆	60.0%
41	3	◆◆◆	54.0%
40	3	◆◆◆	48.0%
39	2	◆◆	42.0%
38	9	◆◆◆◆◆◆◆◆◆	38.0%
37	5	◆◆◆◆◆	20.0%
36	1	◆	10.0%
35	2	◆◆	8.0%
34	0		4.0%
33	0		4.0%
32	0		4.0%
31	1	◆	4.0%
30	1	◆	2.0%

RADAR SPEED SURVEY

Route: Soquel San Jose Road
From: Summit Road
To: 1.4 mi north of Soquel Dr.
Direction: Southbound
Weather: Overcast
Posted Speed: 40mph
Begin time: 11:17
End time: 11:47

CRITICAL SPEED 47
AVERAGE SPEED 44.26
MEDIAN SPEED 44.0
STANDARD DEVIATION 4.70
PACE RANGE 38 - 48
PERCENTAGE IN PACE 82.0%
TOTAL # OF AUTOS 50

<u>MPH</u>	<u># of Vehicles</u>		<u>Percentage</u>
55	2	◆◆	100.0%
54	2	◆◆	96.0%
53	0		92.0%
52	2	◆◆	92.0%
51	0		88.0%
50	1	◆	88.0%
49	0		86.0%
48	0		86.0%
47	3	◆◆◆	86.0%
46	6	◆◆◆◆◆◆	80.0%
45	8	◆◆◆◆◆◆◆◆	68.0%
44	5	◆◆◆◆◆	52.0%
43	4	◆◆◆◆	42.0%
42	2	◆◆	34.0%
41	4	◆◆◆◆	30.0%
40	6	◆◆◆◆◆◆	22.0%
39	0		10.0%
38	3	◆◆◆	10.0%
37	1	◆	4.0%
36	0		2.0%
35	0		2.0%
34	0		2.0%
33	1	◆	2.0%

RADAR SPEED SURVEY
 Santa Cruz County
 Department of Public Works

@ PM 6.0

LOCATION Soquel San Jose Rd | 1.4 mi North Soquel Dr to Summit Rd BY TN
 ROAD NO 2405 DATE 5/18/05 DAY Wed BEGIN 11:17 END 11:47
 POSTED SPEED 40 mph WEATHER Overcast
 NUMBER OF LANES 2 GRADE <10% CALIBRATED

NUMBER OF VEHICLES

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