

**MEMORANDUM**

**TO: CHARLES C. FIELDER**  
District Director

**Date:** January 27, 2012

**File:** MEN-1- PM 76.80/77.80

**FROM: DEPARTMENT OF TRANSPORTATION - District 1**  
Traffic Safety

**SUBJECT: Engineering and Traffic Survey (E&TS)**

**INITIATION:**

This is a re-survey of the existing E&TS speed zones on State Route 1 between PM 76.80 and 77.80 in and near the community of Westport in the County of Mendocino. The survey was conducted to comply with the requirements of Sections 627, 22354.5, and 40802 of the California Vehicle Code (CVC) for the use of radar speed surveillance. CVC Section 40802 establishes that an E&TS is valid for five years and can be extended to seven years upon the satisfaction of specific qualification criterion by the arresting officer, and up to 10 years, if in addition, a review determines that no significant changes in roadway or traffic conditions have occurred. The previous E&TS for this section of highway was completed on March 14, 2006, and the existing speed zones are enforceable by radar. This survey will renew the existing E&TS.

**RESULTS OF THE SURVEY:**Existing Conditions:

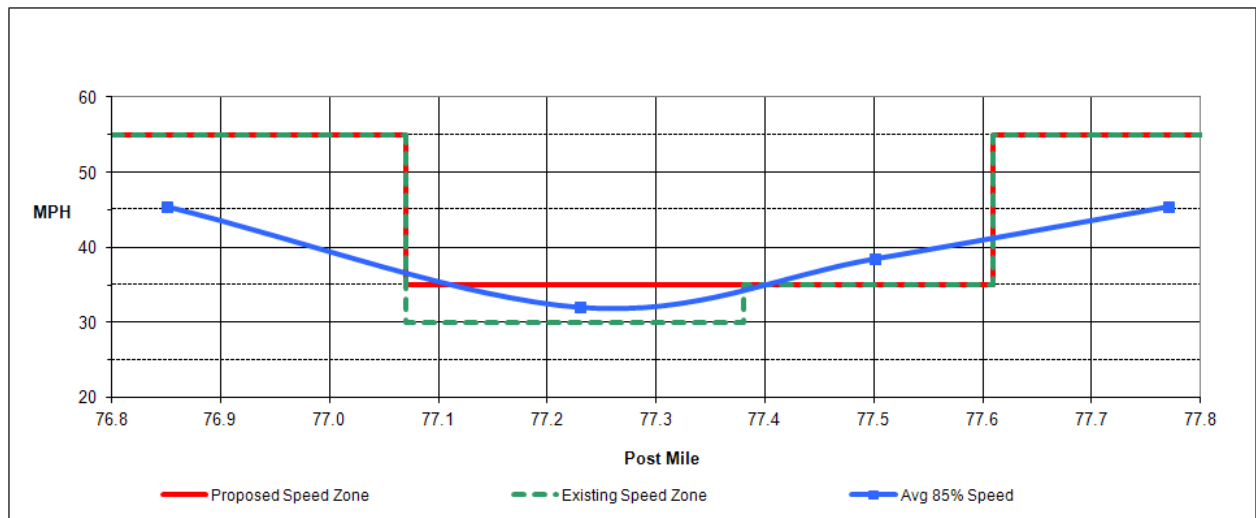
State Route 1 is a conventional two-lane highway passing through the rural community of Westport. This section of highway services the businesses and residences within the community and accommodates tourist traffic along the Mendocino County coast. Between PM 77.30 and PM 77.38 there is a directional speed limit of 35 MPH northbound and 30 MPH southbound. There are eight local road, at-grade intersections with State Route 1 within the survey limits. Traffic volume on this segment of highway between PM 76.80 and PM 77.80 is 900 AADT.

Speed Study:

Radar speed surveys were performed in October 6, 2011, at 4 locations in the northbound and southbound directions on State Route 1 to determine the prevailing speeds through the community of Westport. The survey included more than 400 vehicles between PM 76.80 and PM 77.80. A 55-mph zone borders both the north and south sides of the community of Westport. Speed survey results are shown in the following table and chart:

### RESULTS OF SPEED STUDY

PM	85TH		85TH		PACE	
	EXISTING SPEED LIMIT	PROPOSED SPEED LIMIT	PERCENTILE NB	PERCENTILE SB	PACE NB	PACE SB
76.82	55	55	42	40	33-43	31-41
77.23	30	35	33	32	25-35	23-33
77.50	35	35	38	37	27-37	29-39
77.77	55	55	48	47	40-50	39-49



Existing Speed Limits:

55 MPH	PM 76.80 to PM 77.07
30 MPH	PM 77.07 to PM 77.30
35 MPH	PM 77.30 to PM 77.61
55 MPH	PM 77.61 to PM 77.80

Existing Traffic Control Devices:

<u>PM</u>	<u>FNBT</u>	<u>FSBT</u>
77.07	R2-1 (30 MPH)	R2-1 (55 MPH)
77.13	W1-3(Lt)/W13-1 (20 MPH)	-----
77.16	W1-6(Lt)/TYPE N	-----
77.28	W1-6(Rt)/TYPE N	W1-6(Lt)/TYPE N
77.30	R2-1 (35 MPH)	-----
77.31	-----	W1-3(Lt)/W13-1 (20 MPH)
77.38	-----	R2-1 (30 MPH)
77.40	W54(CA)	-----
77.54	-----	W54(CA)
77.61	R2-1 (55 MPH)	R2-1 (35 MPH)

77.65	W11-8	-----
77.76	-----	R02-4 (35 MPH)
77.79	-----	W11-8

**COLLISION REVIEW:**

A review was made for the three-year period between July 1, 2007 and June 30, 2010, of the recorded collisions on State Route 1 between PM 76.80 and PM 77.80. There were no recorded collisions which results in a 0.00 COL/MVM rate. The statewide average is 2.04 COL/MVM for similar roadways. The AADT is also constant throughout the zone at 900 vehicles.

**COLLISION RATE SUMMARY TABLE**

<u>Speed</u>			<u>Actual</u>	<u>Statewide Average</u>
<u>Limit (MPH)</u>	<u>From (PM)</u>	<u>To (PM)</u>	<u>COL/MVM</u>	<u>COL/MVM</u>
55	76.80	77.07	0.00*	1.02*
35	77.07	77.61	0.00	2.04
55	77.61	77.80	0.00*	1.02*

\* Indicates units are in COL/MV

**ROADSIDE CONDITIONS:**

A review of the roadside environment did not reveal any extraordinary conditions not readily apparent to the driver. The presence of pedestrians, bicyclists, adverse weather conditions, and periodic high volumes should be readily apparent to motorists. They are expected to drive in accordance with the Basic Speed Law, which states: *No person shall drive a vehicle upon a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and surface and width of the highway, and in no event at a speed which endangers the safety of persons or property.*

**RECOMMENDATIONS:**

Raise the 30 MPH speed limit to 35 MPH between PM 77.07 and PM 77.30.

**BASIS FOR RECOMMENDATIONS:**

This recommendation is based on the prevailing speeds, roadside conditions, and collision history. Currently there is a 20 MPH ‘S’ Curve that controls the speed at the south end of town. As a result, vehicles are in compliance regardless of the posted speed limit. This change will result less ambiguity between sign placement and conflicting regulatory versus warning speed signs.

Refer to the attached strip maps for layout and a graphic representation.

**ENFORCEMENT:**

Speed enforcement is provided by the California Highway Patrol. The Superior Court of California, Mendocino County, has jurisdiction over the Mendocino area.

**COMMUNICATIONS:**

This E&TS was reviewed in October 2011 by Sgt. Jerry Elrod of the Fort Bragg CHP Residence Post, as delegated by Capt. Paul Davis, the Ukiah Area Commander. Sgt. Elrod concurred with the recommendations.

This E&TS will be delivered to both the Ukiah Area Office and the Fort Bragg Residence Post of the California Highway Patrol, and also to the California Superior Court in Ukiah, Mendocino County and the Ten Mile Branch office in Fort Bragg.

**EFFECTIVE DATE:**

This survey will become effective on the date of approval shown on the attached Order.



Prepared By: *Darron Hill*  
Darron Hill, P.E.  
District 1 Asst Traffic Safety Engineer

Approved by:

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Ralph M. Martinelli  
Chief, Traffic Safety Office

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Mark L. Suchanek  
Deputy District Director, Maintenance & Operations

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CHARLES C. FIELDER  
District 1 Director

\_\_\_\_\_  
Date

Attachments: Strip Map (2 sheets)