BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF LEWIS COUNTY, WASHINGTON

IN THE MATTER OF:	}	
Fixing a maximum speed on Tennessee Road	}	**RESOLUTION 14-164**
and a portion of Shorey Road in Lewis County,	}	
defining offenses and providing penalties for	}	
the violations thereon	}	

WHEREAS, RCW 46.61.415 authorizes the Board of County Commissioners to alter maximum speed limits on roadways within its jurisdiction on the basis of an engineering and traffic investigation; and

WHEREAS, engineering and traffic investigations have been prepared by Lewis County Public Works to assess the appropriate speed limits on Tennessee Road and a portion of Shorey Road in Lewis County, Washington; and

WHEREAS, the results of these investigations indicate that the speed limit on Tennessee Road and a portion of Shorey Road be lowered to 40 mph; and

WHEREAS, the traffic investigation and all related materials have been reviewed by the Board and found appropriate for further proceedings.

NOW THEREFORE BE IT RESOLVED that the 16th day of June 2014, at or after the hour of 10:00 a.m., in the Commissioners Hearing Room on the 2nd floor of the Historic Courthouse in Chehalis, Washington, has been fixed by the Board as the time and place for the hearing on an Ordinance reducing the speed limit on Tennessee Road and a portion of Shorey Road, when and where all persons may appear and be heard regarding the passing of the Ordinance;

BE IT FURTHER RESOLVED that the Clerk of the Board is hereby instructed to proceed with all appropriate and necessary notifications, posting and publication as required by RCW 36.55.040.

DONE IN OPEN SESSION this 2nd day of June, 2014.

APPROVED AS TO FORM:

Jonathan L. Meyer, Prosecuting Attorney

ATTEST:

Karri Muir, CMC, Clerk of the Board

BOARD OF COUNTY COMMISSIONERS
LEWIS COUNTY, WASHINGTON

F. Lee Grose, Chair

Edna J. Fund, Vice Chair

P.W. Schulte, Commissioner

NOTICE OF HEARING

NOTICE IS HEREBY GIVEN that the Board of County Commissioners, Lewis County, Washington, is intending to reduce the current maximum speed limit on the following roads in Lewis County:

Tennessee Road	Reduce maximum speed limit from 50 mph to 40 mph
Shorey Road	Reduce maximum speed limit from 50 mph to 40 mph

An Engineer's Report has been prepared and all related materials have been reviewed by the Board and found appropriate for further proceedings.

A hearing on the reduction of speed limit on Tennessee Road and a portion of Shorey Road in Lewis County will be held on the 16th day of June, 2014, at or after the hour of 10:00 a.m., in the Commissioners Hearing Room on the 2nd floor of the Historical Courthouse in Chehalis, Washington, when and where all persons may appear and be heard regarding the reduction of speed.

Lewis County policy requires that notice of hearing regarding the proposed reduction of speed limits be advertised at least 10 days before the day fixed for hearing, and also published once in the official newspaper of the county.

Dated: June 2, 2014

LEWIS COUNTY PUBLIC WORKS
ENGINEERING AND TRAFFIC INVESTIGATION REPORT

REASON FOR INVESTIGATION : Initiated by Traffic Engineer Erik Martin based on citizen concerns for sight distance and safe travel on the roadway.

COUNTY ROAD : Tennessee Road

IN THE MATTER OF : Assessing the appropriate speed limit for travel on Tennessee Road (LC Road # 39000).

FINDINGS :

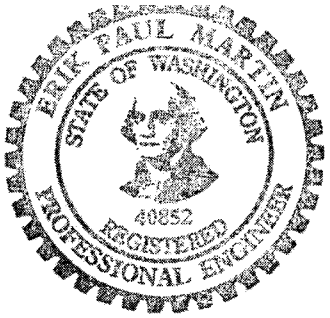
a.) Current Speed Limit : [50]

85% Prevailing Vehicle Speed : [49]

Average Daily Traffic : [240]

b.) Physical Features: Tennessee Road is a thru road with an un-posted 50 MPH speed limit. The road is a 3.115 mile north-south Local Access Road beginning at the City of Winlock City Limits (M.P. 0.169) and terminating at Pleasant Valley Road (M.P. 3.284). The northerly portion of road, from Pleasant Valley to Nelson Road is a strait road, 24-feet in width with rolling terrain. There is one know location (M.P. 2.029) where the road falls below the AASHTO recommendations for vertical curve sight distance. The portion of the road south of Nelson Road continuing to the City Limits of Winlock is narrow, winding, and has some adverse grades. In the last 6 years, this road has produced 15 vehicular accidents, one of which being fatal. This number of accidents has put Tennessee Road above the critical accident rate (rate which is above the normal range of crashes per million vehicle miles of travel MVMT) based on Countywide data for this type of roadway.

c.) Remarks / Recommendations: Given the reduced sight distance, adverse road conditions, and the number of accidents, it is my recommendation to lower the speed limit to 40 MPH. A US LIMITS (FHWA speed limit determination application) evaluation has been conducted and also recommends 40 mph as an appropriate speed limit. The vertical curve at M.P. 2.029 with limited sight distance (ref. Table 3-4 in the ASHTO Design Manual) will be posted for an advisory speed of 35 mph.



Erik Paul Martin, PE
Lewis County Maintenance and Traffic Engineer

USLIMITS2

ROAD SECTION IN DEVELOPED AREA

User Name - epmartin
Project Name - Tennessee Speed Study
Project Number - 14-003
State - Washington
County - Lewis County
City - Rural/Other
Route Name - Tennessee Rd
Termini From - Pleasant Valley Rd
Termini To - City Limits
Description - Speed Study based on citizen concerns about sight distance on Tennessee Road due to vertical alignment of the road.

Recommended Speed Limit is: 40 mph

Note: Sections with adverse alignments may need specific 'advisory speed warnings' which may be different from the general speed limit for the section. See Procedures for Setting Advisory Speeds on Curves, Publication No. FHWA-SA-11-22, June 2011, for more guidance.

The crash rate of the section is 556 per 100 MVMT. The average rate for similar sections is 226 per 100 MVMT, and the critical rate is 480 per 100 MVMT. The crash rate of this section is 146% Higher than the average crash rate for similar sections.

The rate of injury crashes for the section is 148 per 100 MVMT. The average rate for similar sections is 101 per 100 MVMT, and the critical rate is 278 per 100 MVMT. The rate of injury crashes for this section is 46% Higher than the average rate for similar sections. A comprehensive crash study should be undertaken to identify engineering and traffic control deficiencies and appropriate corrective actions. The speed limit should only be reduced as a last measure after all other treatments have either been tried or ruled out.

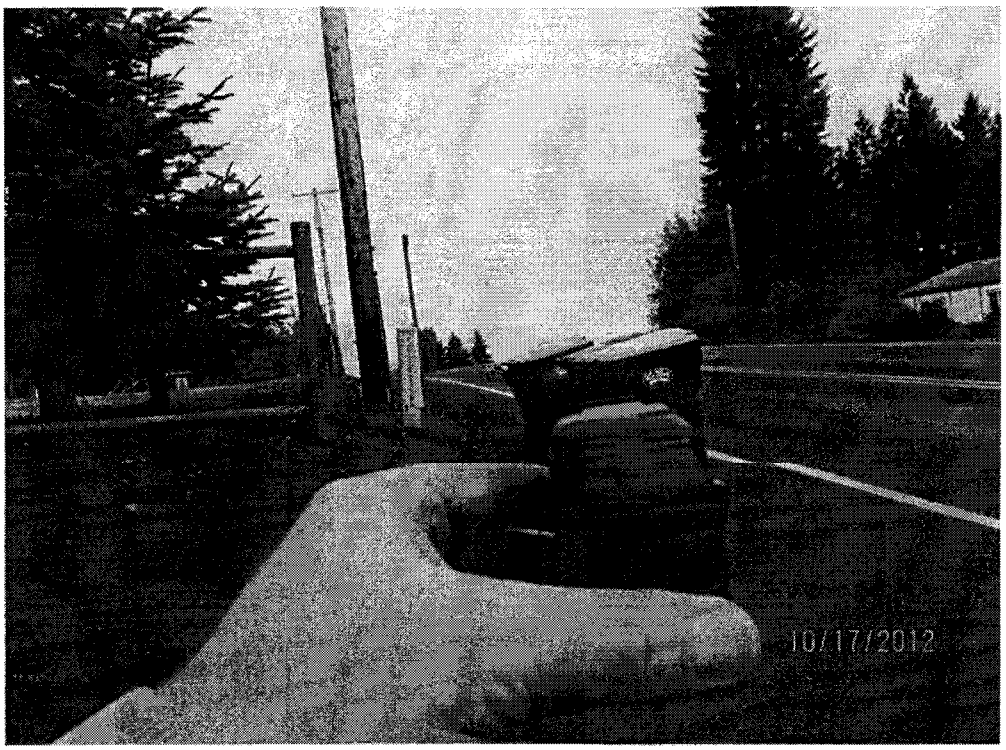
Add Additional Comments

Create Project File More Info

SIGHT DISTANCE REVIEW

Tennessee Road un-posted 50 MPH 10/17/2012

Looking south toward Silver Thistle road. Red arrow notes access, SD = 255'.



Looking north from Silver Thistle Road eye height 3.5' same as target, pole, phone ped impedes line of sight.

Looking south from Silver Thistle Road, SD = 199', brush impedes line of sight.

Lewis County Public Works

A>B: South
B<A: North
MP: 2.210

Site: Tennessee Road
Wednesday, 1/23/2013, 10:27:38 AM -
Friday, 1/25/2013, 2:51:14 PM

Speed Grand Totals
Combined

Hourly Averages

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0
1:00 AM	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
5:00 AM	2.5	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	1.0	0.0	0.0	0.0	0.0
6:00 AM	6.5	0.0	0.0	1.0	0.0	0.0	0.0	1.0	2.5	0.5	0.0	0.5	0.0	1.0
7:00 AM	8.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	1.5	2.5	0.5	0.0	0.0	0.0
8:00 AM	11.5	0.0	0.0	0.5	0.0	1.0	0.5	1.5	5.0	1.0	1.5	0.0	0.5	0.0
9:00 AM	18.0	0.0	0.5	0.0	0.0	0.0	3.5	3.5	3.0	3.0	4.0	0.0	0.5	0.0
10:00 AM	18.7	1.0	0.0	0.3	0.3	0.0	2.3	1.3	2.3	1.7	0.7	0.3	0.3	0.0
11:00 AM	14.7	0.3	0.7	0.0	0.7	1.7	0.7	2.0	2.3	1.7	0.3	0.3	0.0	0.0
12:00 PM	14.3	0.0	0.0	0.3	0.7	0.3	1.0	3.3	5.0	3.0	0.7	2.0	0.0	0.0
1:00 PM	14.7	0.0	0.0	0.3	0.0	0.7	1.7	3.0	5.7	2.3	1.0	0.0	0.0	0.0
2:00 PM	13.0	0.0	0.0	0.3	0.3	0.0	1.0	4.3	4.3	2.3	0.3	0.0	0.0	0.0
3:00 PM	15.0	0.0	0.0	0.5	1.0	0.5	1.5	3.0	3.0	1.5	3.0	1.0	0.0	0.0
4:00 PM	27.5	0.0	0.0	0.0	0.0	0.5	3.0	5.0	8.0	5.5	3.5	0.5	1.0	0.5
5:00 PM	17.5	0.0	0.0	0.0	0.5	0.5	1.0	2.0	9.0	4.0	0.0	0.5	0.0	0.0
6:00 PM	21.0	0.0	0.0	0.5	2.0	0.5	5.0	8.0	3.5	1.5	1.0	0.0	0.0	0.0
7:00 PM	15.0	0.0	0.0	0.5	0.0	1.0	0.5	5.0	4.5	1.5	1.5	0.5	0.0	0.0
8:00 PM	11.0	0.0	0.0	0.0	0.5	0.5	2.5	1.5	2.5	2.0	0.5	0.0	0.0	0.0
9:00 PM	5.0	0.0	0.0	0.5	0.0	0.0	1.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0
10:00 PM	7.0	0.0	0.0	0.0	0.0	0.0	0.5	3.5	1.5	0.5	1.0	0.0	0.0	0.0
11:00 PM	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
ADT	236.8	1.3	1.2	4.8	7.0	7.2	28.2	54.0	66.7	36.5	20.0	6.2	2.3	1.5

Percentile Speeds	10%	15%	50%	85%	90%
(mph)	35.2	37.6	46.2	53.7	56.1

10 mph Pace Speed 40.3 - 50.3
Number in Pace 283 (52.5 %)

Average 45.5 mph
Minimum 6.4 mph
Maximum 77.0 mph

Speeds Exceeded	45 mph	55 mph	65 mph
	56.2 %	12.2 %	1.5 %
Count	303	66	8

Study Grand Totals

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
A>B	279	2	1	6	11	11	36	82	74	38	14	3	1	0
		0.7%	0.4%	2.2%	3.9%	3.9%	12.9%	29.4%	26.5%	13.6%	5.0%	1.1%	0.4%	0.0%
B<A	260	2	2	5	5	6	27	40	79	46	29	12	4	3
		0.8%	0.8%	1.9%	1.9%	2.3%	10.4%	15.4%	30.4%	17.7%	11.2%	4.6%	1.5%	1.2%
Combined	539	4	3	11	16	17	63	122	153	84	43	15	5	3
		0.7%	0.6%	2.0%	3.0%	3.2%	11.7%	22.6%	28.4%	15.6%	8.0%	2.8%	0.9%	0.6%

A<B: North
B<A: South
M.p.: Bridge

Site: Tennessee
Monday, 11/28/2011, 11:02:17 AM -
Friday, 12/02/2011, 11:56:41 AM

Speed Grand Totals
Combined

Hourly Averages

mph	Tcal	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	:.0	0.0	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	:.5	0.3	2.0	1.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	1.5	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	1.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	1.8	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 AM	1.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 AM	:.0	0.3	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 AM	:.3	0.3	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:00 AM	1.5	1.5	5.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 AM	15.5	2.3	10.8	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 AM	14.3	1.5	5.8	2.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 AM	11.0	2.0	7.0	2.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12:00 PM	1..8	2.3	6.8	2.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 PM	1.8	2.0	9.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 PM	14.0	2.0	8.8	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 PM	11.5	2.3	8.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 PM	2..0	3.0	14.5	3.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5:00 PM	11.5	3.3	12.3	3.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6:00 PM	24.3	2.8	17.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 PM	11.0	2.0	9.0	3.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:00 PM	1..5	0.8	6.3	4.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 PM	1.8	1.5	5.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 PM	1.5	1.8	4.8	2.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 PM	1.8	1.0	4.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ADT	231.3	33.0	146.0	50.8	3.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Percentile Speeds	10%	15%	50%	85%	90%
(mph)	14.4	15.1	18.0	20.8	21.5

10 mph Pace Speed 12.6 - 22.6
Number in Pace 868 (91.9 %)

Average 18.0 mph
Minimum 7.9 mph
Maximum 30.4 mph

Speeds Exceeded	45 mph	55 mph	65 mph
	0.0 %	0.0 %	0.0 %
Count	0	0	0

Study Grand Totals

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
A>B	491	52	299	127	12	1	0	0	0	0	0	0	0	0
		10.6%	60.9%	25.9%	2.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
B>A	454	82	292	79	1	0	0	0	0	0	0	0	0	0
		18.1%	64.3%	17.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Combined	945	134	591	206	13	1	0	0	0	0	0	0	0	0
		14.2%	62.5%	21.8%	1.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

A>B: North
B>A: South
M.p.: 1.616

Site: Tennessee
Monday, 10/11/2010, 9:50:37 AM -
Friday, 10/15/2010, 8:36:55 AM

Speed Grand Totals
Combined

Hourly Averages

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0
1:00 AM	0.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0
2:00 AM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
4:00 AM	3.0	0.0	0.0	0.0	0.0	1.0	0.5	0.8	0.0	0.5	0.3	0.0	0.0	0.0
5:00 AM	3.8	0.0	0.0	0.0	0.8	0.3	1.8	1.5	1.8	1.3	1.0	0.3	0.3	0.0
6:00 AM	5.0	0.0	0.0	0.0	0.0	0.5	1.8	0.5	2.0	0.8	0.5	0.0	0.0	0.0
7:00 AM	5.0	0.0	0.3	1.0	0.0	0.8	2.8	2.3	6.0	3.0	0.0	0.0	0.0	0.0
8:00 AM	2.3	0.3	0.0	0.0	0.0	2.0	0.8	2.5	3.3	2.0	1.3	0.3	0.0	0.0
9:00 AM	0.5	0.3	0.5	0.0	0.5	1.0	2.5	2.3	2.0	1.0	0.3	0.3	0.0	0.0
10:00 AM	1.0	0.0	0.3	0.3	0.5	1.5	2.3	2.5	2.0	1.3	0.3	0.3	0.0	0.0
11:00 AM	5.3	0.0	0.3	0.0	0.3	1.8	2.5	3.0	4.8	1.5	0.8	0.5	0.0	0.0
12:00 PM	4.0	0.5	0.3	0.0	0.5	0.8	3.0	2.3	3.8	1.3	1.3	0.0	0.5	0.0
1:00 PM	5.0	0.0	0.3	0.5	0.3	1.5	1.8	2.8	4.5	2.3	0.5	0.3	0.3	0.3
2:00 PM	4.5	0.0	0.0	0.0	0.5	0.8	1.8	2.3	3.3	4.8	0.8	0.3	0.3	0.0
3:00 PM	5.0	0.0	0.0	0.3	0.3	1.8	3.8	6.8	5.5	5.0	1.3	0.3	0.3	0.0
4:00 PM	2.0	0.3	0.3	0.3	0.5	1.3	3.3	6.5	4.5	3.0	2.0	0.3	0.0	0.0
5:00 PM	9.8	0.0	0.3	0.0	0.5	2.0	2.0	4.8	5.0	3.5	0.8	0.5	0.0	0.5
6:00 PM	5.8	0.3	0.0	0.3	0.0	1.5	4.0	2.8	3.0	2.8	1.0	0.0	0.3	0.0
7:00 PM	7.3	0.0	0.0	0.0	0.0	0.5	0.5	1.3	3.3	0.8	0.8	0.0	0.0	0.3
8:00 PM	9.8	0.3	0.0	0.0	0.3	0.3	0.8	2.8	1.5	2.8	0.8	0.0	0.0	0.5
9:00 PM	5.8	0.0	0.3	0.0	0.0	1.0	0.5	1.3	1.0	1.3	0.5	0.0	0.0	0.0
10:00 PM	4.0	0.0	0.0	0.3	0.0	0.3	0.3	0.3	0.5	0.8	0.8	0.5	0.0	0.5
11:00 PM	1.3	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.3	0.0	0.0	0.3	0.0	0.0
ADT	28.5	1.8	2.5	2.8	4.8	20.8	36.8	49.5	58.0	39.5	14.5	3.8	2.0	2.0

Percentile Spees	10%	15%	50%	85%	90%
(mph)	33.6	35.6	45.0	52.4	54.5

10 mph Pace Sped	42.0 - 52.0	**Average**	44.3 mph
Number in Pace	446 (46.8 %)	**Minimum**	6.6 mph
		Maximum	90.8 mph

Speeds Exceede	45 mph	55 mph	65 mph
	50.2 %	9.3 %	1.7 %
Count	479	89	16

Study Grand Totals

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
A>B	477	5	5	5	4	26	67	88	133	90	41	8	3	2
		1.0%	1.0%	1.0%	0.8%	5.5%	14.0%	18.4%	27.9%	18.9%	8.6%	1.7%	0.6%	0.4%
B>A	477	2	5	6	15	57	80	110	99	68	17	7	5	6
		0.4%	1.0%	1.3%	3.1%	11.9%	16.8%	23.1%	20.8%	14.3%	3.6%	1.5%	1.0%	1.3%
Combined	954	7	10	11	19	83	147	198	232	158	58	15	8	8
		0.7%	1.0%	1.2%	2.0%	8.7%	15.4%	20.8%	24.3%	16.6%	6.1%	1.6%	0.8%	0.8%

LEWIS COUNTY PUBLIC WORKS
ENGINEERING AND TRAFFIC INVESTIGATION REPORT

REASON FOR INVESTIGATION: Initiated by Traffic Engineer based on citizen concerns for safe travelling speeds on the roadway.

COUNTY ROAD: Shorey Road - 40098

IN THE MATTER OF: Assessing the appropriate speed limit for travel on Shorey Road

FINDINGS :

a.) Current Speed Limit : [50] MPH

85% Prevailing Vehicle Speed : [45] MPH

Average Daily Traffic : [1755]

Truck percentage : [9%]

b.) Physical Features: Shorey Road is a through road with a 50 mph speed limit section from M.P. 1.582 to the termination of the road at Hwy 603 (M.P. 2.854). This section of the roadway is 24' wide with varying shoulders and has various grade changes with both vertical and horizontal curves. While these curves do meet AASHTO standards for sight distance the number of access points and high volume of traffic has raised concerns about the appropriate speed limit. There has also been a higher than average number of accidents on this roadway in past 10 years.

c.) Accident Characteristics: In the last 10 years 12 injury accidents and 18 property damage accidents.

d.) Remarks / Recommendations : Given the residential nature of the road, the varying geometrics and the number of accidents, it is my recommendation that the speed limit for the described portion of the road be lowered from 50 mph to 40 mph.

Erik Paul Martin
Maintenance and Traffic Engineer

A>B : South
B<A : North
MP : 2.654

Site: Shorey Rd
Thursday, 12/12/2013 10:00 AM - Thursday, 12/19/2013 2:15 PM

Volume Grand Totals

Average Hourly Volumes

	A>B	B<A	Combined
12:00 AM	9.0	2.9	11.9
1:00 AM	4.3	2.1	6.4
2:00 AM	2.1	2.0	4.1
3:00 AM	2.7	4.7	7.4
4:00 AM	2.4	8.9	11.3
5:00 AM	1.3	26.7	28.0
6:00 AM	7.7	55.1	62.9
7:00 AM	13.0	90.6	103.6
8:00 AM	21.4	67.4	88.9
9:00 AM	30.6	62.6	93.1
10:00 AM	36.3	63.5	99.8
11:00 AM	48.9	57.5	106.4
12:00 PM	50.6	57.9	108.5
1:00 PM	57.6	53.5	111.1
2:00 PM	69.3	50.4	119.7
3:00 PM	89.9	58.9	148.7
4:00 PM	101.1	57.4	158.6
5:00 PM	103.6	52.4	156.0
6:00 PM	61.0	37.9	98.9
7:00 PM	49.4	22.6	72.0
8:00 PM	48.9	20.1	69.0
9:00 PM	34.0	11.6	45.6
10:00 PM	20.0	7.1	27.1
11:00 PM	12.4	4.3	16.7
Average Daily Traffic (ADT)	877.5	878.1	1755.6

Volume Totals

A>B	B<A	Combined
6336	6379	12715
49.8 %	50.2 %	

A>B : South
B<A : North
MP : 2.654

Site: Shorey Rd
Thursday, 12/12/2013 10:00 AM -
Thursday, 12/19/2013 2:00 PM

Classification Grand Totals

Hourly Averages

Combined

Interval Start	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
12:00 AM	11.9	0.0	7.4	4.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1:00 AM	6.4	0.0	3.6	1.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2:00 AM	4.1	0.0	2.1	1.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3:00 AM	7.4	0.0	5.7	1.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4:00 AM	11.3	0.0	7.7	3.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
5:00 AM	28.0	0.0	16.7	7.2	0.0	3.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
6:00 AM	62.9	0.0	41.9	16.6	0.0	4.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7:00 AM	103.6	0.0	70.3	28.1	0.7	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8:00 AM	88.9	0.0	62.3	19.0	0.0	6.1	0.6	0.0	0.7	0.1	0.0	0.0	0.0	0.0
9:00 AM	93.1	0.0	62.4	22.7	0.1	8.0	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0
10:00 AM	99.8	0.0	66.1	22.9	0.0	9.4	0.3	0.0	1.0	0.0	0.1	0.0	0.0	0.0
11:00 AM	106.4	0.1	65.9	25.5	0.3	10.5	0.1	0.0	1.3	0.1	0.0	0.0	0.0	0.0
12:00 PM	108.5	0.1	71.3	25.3	0.3	10.9	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0
1:00 PM	111.1	0.0	72.5	26.9	0.3	10.6	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0
2:00 PM	119.7	0.0	78.9	28.3	0.0	11.6	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0
3:00 PM	148.7	0.3	91.5	37.7	1.7	16.1	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
4:00 PM	158.6	0.0	99.1	41.6	0.1	17.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
5:00 PM	156.0	0.0	100.4	38.3	0.1	16.1	0.1	0.0	0.7	0.1	0.0	0.0	0.0	0.0
6:00 PM	98.9	0.0	68.0	22.9	0.0	7.4	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
7:00 PM	72.0	0.0	47.1	18.7	0.0	5.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
8:00 PM	69.0	0.0	47.1	16.0	0.0	5.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9:00 PM	45.6	0.0	31.9	11.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10:00 PM	27.1	0.0	20.1	5.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11:00 PM	16.7	0.0	11.2	4.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Daily Average	1755.6	0.7	1150.6	429.9	3.6	157.5	2.6	0.1	9.6	0.4	0.6	0.0	0.0	0.0

Study Grand Totals

	Total	Motor Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
Combined	12715	5	8329	3110	26	1147	19	1	71	3	4	0	0	0
		0.0 %	65.5 %	24.5 %	0.2 %	9.0 %	0.1 %	0.0 %	0.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
A>B	6336	2	3777	1708	17	782	11	0	37	2	0	0	0	0
		0.0 %	59.6 %	27.0 %	0.3 %	12.3 %	0.2 %	0.0 %	0.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
B<A	6379	3	4552	1402	9	365	8	1	34	1	4	0	0	0
		0.0 %	71.4 %	22.0 %	0.1 %	5.7 %	0.1 %	0.0 %	0.5 %	0.0 %	0.1 %	0.0 %	0.0 %	0.0 %

A>B : South
B<A : North
MP : 2.654

Site: Shorey Rd
Thursday, 12/12/2013 10:00 AM -
Thursday, 12/19/2013 2:00 PM

Speed Grand Totals

Hourly Averages Combined

mph	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
12:00 AM	11.9	0.0	0.0	0.3	0.3	2.4	3.6	3.6	1.3	0.4	0.0	0.0	0.0	0.0
1:00 AM	6.1	0.0	0.0	0.0	0.0	0.5	1.0	2.0	1.7	0.3	0.0	0.0	0.0	0.0
2:00 AM	4.1	0.0	0.0	0.0	0.3	0.3	1.3	1.3	0.9	0.1	0.0	0.0	0.0	0.0
3:00 AM	7.2	0.0	0.0	0.0	0.0	0.7	2.0	2.1	1.6	0.5	0.2	0.0	0.0	0.0
4:00 AM	11.3	0.0	0.0	0.3	0.7	3.6	2.9	2.3	1.1	0.3	0.0	0.1	0.0	0.0
5:00 AM	28.0	0.0	0.0	0.6	2.5	7.0	10.7	6.5	0.9	0.0	0.1	0.0	0.0	0.0
6:00 AM	62.9	0.0	0.3	1.0	4.3	13.9	26.7	14.4	2.0	0.3	0.0	0.0	0.0	0.0
7:00 AM	103.6	0.0	0.3	1.6	4.7	27.7	38.1	25.1	5.4	0.4	0.0	0.0	0.0	0.0
8:00 AM	88.9	0.0	0.3	0.9	5.0	20.4	31.6	22.6	6.9	1.0	0.3	0.0	0.0	0.0
9:00 AM	93.1	0.1	0.3	0.9	5.7	20.6	35.9	22.0	6.7	1.0	0.0	0.0	0.0	0.0
10:00 AM	99.8	0.1	0.3	1.3	8.0	22.9	32.9	24.4	8.1	1.5	0.3	0.1	0.0	0.0
11:00 AM	106.4	0.3	0.4	1.5	6.8	28.0	35.5	20.6	10.9	2.0	0.1	0.0	0.0	0.0
12:00 PM	108.5	0.0	0.1	0.3	5.0	20.3	34.1	30.4	13.3	4.8	0.4	0.0	0.0	0.0
1:00 PM	113.5	0.0	0.3	0.8	4.9	19.1	34.9	29.4	22.8	7.8	0.9	0.3	0.0	0.0
2:00 PM	119.7	0.0	0.4	0.7	4.6	19.0	42.0	34.7	14.4	3.7	0.1	0.0	0.0	0.0
3:00 PM	149.7	0.1	0.3	0.9	7.7	24.5	47.3	45.0	19.0	3.7	0.1	0.0	0.0	0.0
4:00 PM	158.6	0.0	0.0	0.6	4.9	26.1	53.3	49.9	18.9	4.1	0.9	0.0	0.0	0.0
5:00 PM	156.0	0.0	0.1	0.6	5.9	26.7	56.0	46.0	16.9	3.3	0.6	0.0	0.0	0.0
6:00 PM	98.9	0.0	0.3	0.7	4.0	19.1	32.0	27.0	12.4	3.1	0.1	0.0	0.0	0.0
7:00 PM	72.0	0.0	0.3	0.7	2.7	9.6	24.1	21.3	11.4	2.9	0.0	0.0	0.0	0.0
8:00 PM	69.0	0.1	0.0	0.6	3.1	13.4	24.0	18.6	7.0	1.6	0.4	0.0	0.0	0.1
9:00 PM	45.6	0.0	0.1	0.1	2.0	8.3	12.9	10.3	7.8	2.1	0.1	0.0	0.1	0.0
10:00 PM	27.1	0.0	0.1	0.4	0.9	5.3	7.0	8.1	4.3	0.9	0.1	0.0	0.0	0.0
11:00 PM	16.7	0.0	0.0	0.0	1.0	2.0	4.7	4.7	3.4	0.6	0.1	0.1	0.0	0.0
Daily Average	1755.6	0.9	4.1	14.8	85.7	334.1	599.8	483.0	186.9	40.7	4.5	0.7	0.1	0.1

Average (Mean) 38.7 mph **Minimum** 10.8 mph **Maximum** 70.2 mph **Pace Range** 33.6 - 43.6 mph 8035 vehicles (63.2 %)

Percentile Speeds	10%	15%	50%	85%	90%
(mph)	31.6	33.0	38.7	44.5	45.9

Speeds Exceeded	25 mph	35 mph	45 mph	55 mph	65 mph	75 mph
	98.9 % (12570)	74.9 % (9527)	13.3 % (1689)	0.3 % (40)	0.0 % (2)	0.0 % (0)

Study Grand Totals

	Total	0 - < 15	15 - < 20	20 - < 25	25 - < 30	30 - < 35	35 - < 40	40 - < 45	45 - < 50	50 - < 55	55 - < 60	60 - < 65	65 - < 70	70 - < 200
Combined	12715	7	30	108	624	2419	4343	3495	1353	296	33	5	1	1
		0.1 %	0.2 %	0.8 %	4.9 %	19.0 %	34.2 %	27.5 %	10.6 %	2.3 %	0.3 %	0.0 %	0.0 %	0.0 %
A>B	6336	3	15	46	193	764	1909	2054	1050	265	32	3	1	1
		0.0 %	0.2 %	0.7 %	3.0 %	12.1 %	30.1 %	32.4 %	16.6 %	4.2 %	0.5 %	0.0 %	0.0 %	0.0 %
B<A	6379	4	15	62	431	1655	2434	1441	303	31	1	2	0	0
		0.1 %	0.2 %	1.0 %	6.8 %	25.9 %	38.2 %	22.6 %	4.7 %	0.5 %	0.0 %	0.0 %	0.0 %	0.0 %

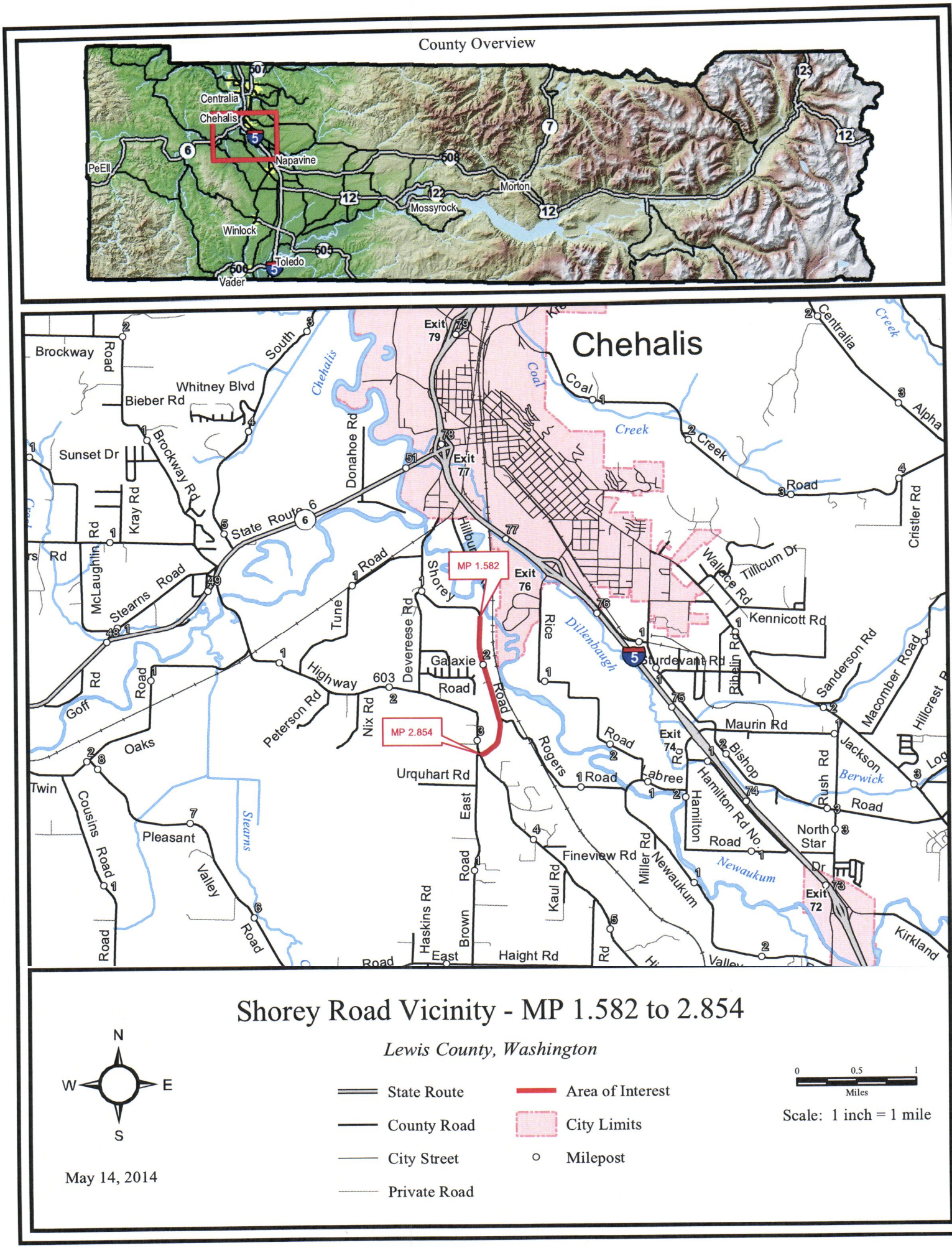
Collision Summary

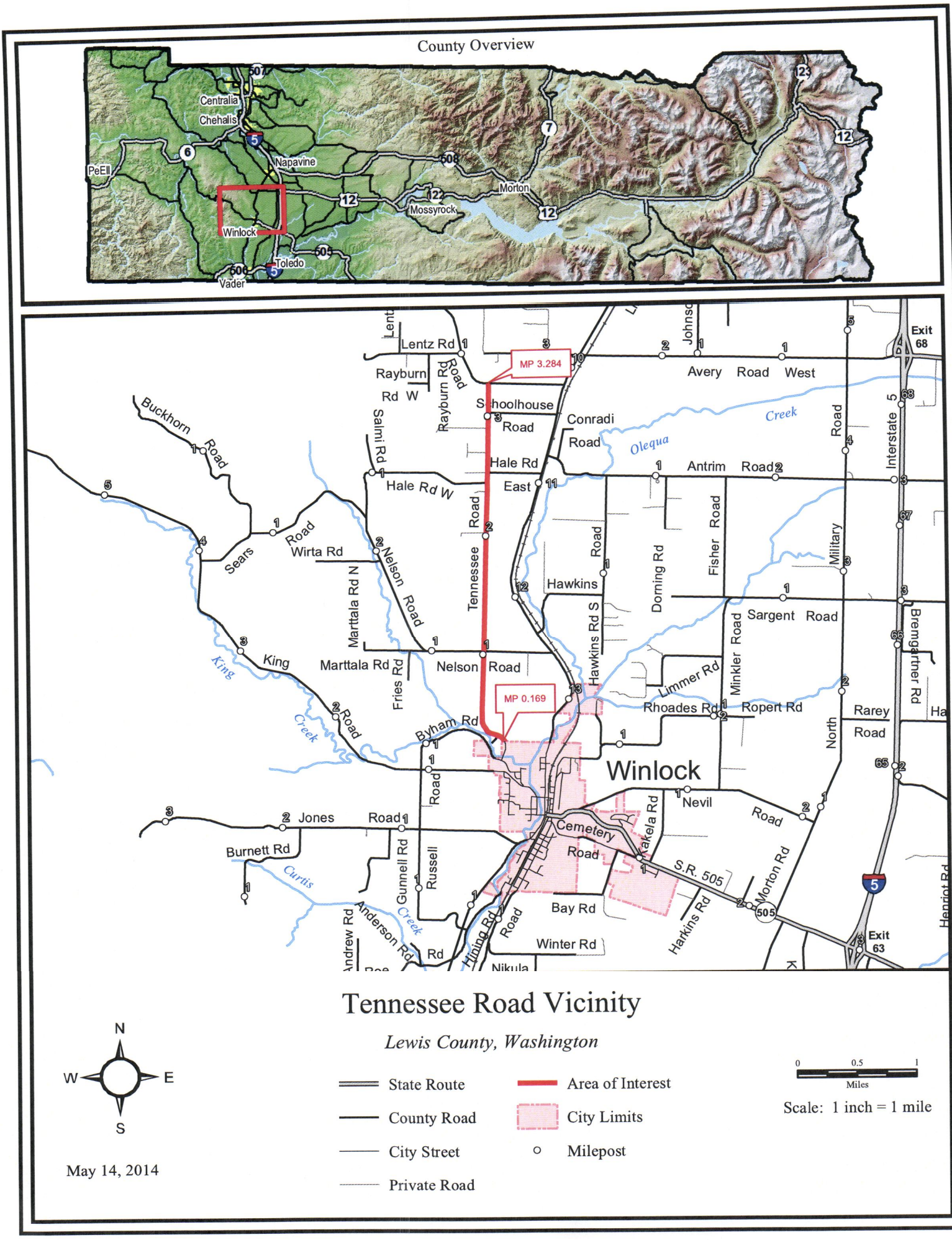
Rd #	MP	Rd Name	Report #	Date	ADT	Sev	# Veh	# Inj	# Fatal	Collision Type	Unit 1 CC	Weather	Light
40098	1.074	SHOREY RD	1741202	01/09/04	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Raining	Daylight
40098	1.574	SHOREY RD	1576305	02/17/05	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Daylight
40098	2.409	SHOREY RD	1740029	05/05/05	506	1	1	0	0	Fixed object	Under Influence of Drugs	Clear or Partly Cloudy	Dark-Street Lights Off
40098	1.474	SHOREY RD	1740168	07/22/05	506	2	1	1	0	Vehicle overturned	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dark-No Street Lights
40098	0.974	SHOREY RD	2009520	10/11/05	506	2	3	1	0	One parked--one moving	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Daylight
40098	2.458	SHOREY RD	1741186	10/18/05	506	2	1	1	0	Non-domestic animal (deer/bear/elk/etc)	None	Clear or Partly Cloudy	Dark-No Street Lights
40098	1.074	SHOREY RD	1740061	10/20/05	506	2	1	1	0	Fixed object	Exceeding Stated Speed Limit	Overcast	Daylight
40098	1.174	SHOREY RD	1269375	12/12/05	506	2	1	3	0	Fixed object	Exceeding Reas. Safe Speed	Overcast	Dark-No Street Lights
40098	2.666	SHOREY RD	2340406	01/30/06	506	1	2	0	0	From same direction - both going straight - both moving - rear-end	Exceeding Reas. Safe Speed	Overcast	Daylight
40098	0.974	SHOREY RD	2293317	06/07/06	506	1	1	0	0	Fixed object	Apparently Asleep	Clear or Partly Cloudy	Daylight
40098	2.566	SHOREY RD	2385199	08/17/06	506	2	2	1	0	From same direction - one right turn - one straight	Follow Too Closely	Clear or Partly Cloudy	Daylight
40098	2.466	SHOREY RD	2574290	08/18/06	506	1	2	0	0	Entering at angle	None	Clear or Partly Cloudy	Daylight
40098	1.374	SHOREY RD	2563574	11/19/06	506	2	2	1	0	Fixed object	Under Influence of Alcohol	Clear or Partly Cloudy	Dark-Street Lights Off
40098	2.277	SHOREY RD	C678597	12/05/06	506	1	1	0	0	Non-domestic animal (deer/bear/elk/etc)		Overcast	Dark-No Street Lights
40098	2.174	SHOREY RD	2563485	12/30/06	506	2	1	2	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dark-No Street Lights
40098	0.974	SHOREY RD	2522006	01/11/07	506	2	1	1	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dark-Street Lights On
40098	2.409	SHOREY RD	2522301	01/26/07	506	1	1	0	0	Non-domestic animal (deer/bear/elk/etc)	Driver Distractions Outside the Vehicle	Overcast	Dark-No Street Lights
40098	1.374	SHOREY RD	2672796	04/01/07	506	1	1	0	0	Vehicle overturned	Under Influence of	Overcast	Daylight

01/27/2014

Collision Summary

Rd #	MP	Rd Name	Report #	Date	ADT	Sev	# Veh	# Inj	# Fatal	Collision Type	Unit 1 CC	Weather	Light
40098	1.974	SHOREY RD	2815927	07/02/07	506	2	1	1	0	Non-domestic animal (deer/bear/elk/etc)	Alcohol Inattention	Clear or Partly Cloudy	Daylight
40098	1.244	SHOREY RD	2522305	12/30/07	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Unknown	Unknown
40098	2.366	SHOREY RD	E006885	08/15/08	506	1	1	0	0	Fixed object	Unknown Driver Distraction	Clear or Partly Cloudy	Daylight
40098	2.216	SHOREY RD	353085	01/04/09	506	2	1	3	0	Fixed object	None	Snowing	Dusk
40098	1.274	SHOREY RD	2672352	02/10/09	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Snowing	Daylight
40098	2.466	SHOREY RD	3124207	03/02/09	506	1	2	0	0	From same direction - all others	Improper Backing	Clear or Partly Cloudy	Daylight
40098	2.352	SHOREY RD	E016649	03/10/09	506	1	1	0	0	Vehicle strikes deer	None	Overcast	Dark-No Street Lights
40098	0.974	SHOREY RD	E061806	07/31/10	506	1	2	0	0	Entering at angle	Did Not Grant ROW to Vehicle	Clear or Partly Cloudy	Daylight
40098	2.200	SHOREY RD	E082557	12/09/10	506	1	1	0	0	Vehicle strikes deer	None	Raining	Dark-No Street Lights
40098	2.854	SHOREY RD	E097305	03/22/11	506	2	1	1	0	Vehicle overturned	Exceeding Reas. Safe Speed	Overcast	Daylight
40098	2.466	SHOREY RD	E105913	05/19/11	506	2	1	1	0	Fixed object	Inattention	Clear or Partly Cloudy	Daylight
40098	0.991	SHOREY RD	E136083	11/12/11	506	1	1	0	0	Fixed object	Exceeding Reas. Safe Speed	Clear or Partly Cloudy	Dawn
40098	1.905	SHOREY RD	E189240	08/29/12	506	1	1	0	0	Fixed object		Clear or Partly Cloudy	Daylight
40098	1.000	SHOREY RD	E233793	03/22/13	506	2	1	1	0	Fixed object	None	Overcast	Daylight


County Overview
Centralia
Chehalis
Napavine
PeEll
Winlock
Toledo
Vader
Morton
Mossyrock
Chehalis
Brockway Road
Whitney Blvd
Bieber Rd
Sunset Dr
Kray Rd
McLaughlin Rd
Stearns Road
Goff Rd
Oaks
Twin
Cousins Road
Pleasant
Valley Road
Peterson Rd
Nix Rd
Highway 603
Tune Road
Devereese Rd
Shorey Road
Donahoe Rd
Brockway Rd
State Route 6
Hillburn
Galaxie Road
Urquhart Rd
East Road
Haskins Rd
Brown Road
Haight Rd
Stearns
Coal Creek
Dillenbaugh
Rice Road
Rogers Road
Fineview Rd
Kaul Rd
Miller Rd
Newaukum
Labree Road
Hamilton Rd
Hamilton Rd No. 1
Bishop Rd
Maurin Rd
Sturdevant Rd
Ribelin Rd
Wallace Rd
Tillicum Dr
Kennicott Rd
Sanderson Rd
Macomber Road
Jackson Road
Berwick
Rush Rd
North Star Dr
Cristler Rd
Alpha Creek
Centralia
Kirkland
Valley
Exit 79
Exit 77
Exit 76
Exit 74
Exit 72
MP 1.582
MP 2.854
Shorey Road Vicinity - MP 1.582 to 2.854
Lewis County, Washington
N
W
E
S
State Route
County Road
City Street
Private Road
Area of Interest
City Limits
Milepost
0 0.5 1
Miles
Scale: 1 inch = 1 mile
May 14, 2014


County Overview
Centralia
Chehalis
Napavine
PeEll
Winlock
Toledo
Vader
Morton
Mossyrock
Tennessee Road Vicinity
Lewis County, Washington
MP 3.284
MP 0.169
Winlock
Lentz Rd
Rayburn Rd W
Rayburn Road
Schoolhouse Road
Conradi Road
Hale Rd East
Hale Rd W
Buckhorn Road
Sears Road
Wirta Rd
Nelson Road
Marttala Rd N
Marttala Rd
Fries Rd
King Road
King Creek
Tennessee Road
Hawkins Road
Hawkins Rd S
Dorming Rd
Fisher Road
Military Road
Avery Road West
Antrim Road
Olequa Creek
Interstate 5
Exit 68
Sargent Road
Limmer Rd
Minkler Road
Rhoades Rd
Ropert Rd
Rarey Road
North Road
Bremgartner Rd
Byham Rd
Nevil Road
Cemetery Road
Jones Road
Burnett Rd
Curtis Creek
Gunnell Rd
Russell Road
Anderson Rd
Andrew Rd
Hiring Rd
Bay Rd
Winter Rd
Nikula Rd
Takela Rd
S.R. 505
Morton Rd
Harkins Rd
Exit 63
Henriot Rd
N
W
E
S
May 14, 2014
State Route
County Road
City Street
Private Road
Area of Interest
City Limits
Milepost
0 0.5 1
Miles
Scale: 1 inch = 1 mile