

**County of Del Norte**  
**DRAFT Engineering and Traffic Survey**

<b>Segment:</b>	Boulder Avenue	<b>Between:</b>	Lake Earl Drive	<b>&amp;</b>	Railroad Avenue
<b>Posted Limit (mph):</b>	40	<b>Bicycle Lanes:</b>	None		
<b>Width (ft):</b>	24	<b>Sidewalks:</b>	None		
<b>Travel Lanes:</b>	2	<b>Land Use:</b>	Rural Residential		
<b>Configuration:</b>	Divided	<b>Character:</b>	Rural		
<b>Parking:</b>	None	<b>Terrain:</b>	Level		

**Observations and Evaluation**

<b>Volume (ADT):</b>	262	<b>Vehicles Sampled:</b>	50
<b>Segment Length (mi):</b>	0.6	<b>85<sup>th</sup> Percentile Speed (mph):</b>	39.5
<b>Collisions:</b>	3	<b>50<sup>th</sup> Percentile Speed (mph):</b>	35.5
<b>Evaluation Period (yr):</b>	3	<b>10 mph in Pace:</b>	30.5-39.5
<b>Statewide Average</b>			
<b>Collision Rate (C/mvm)*:</b>	1.03	<b>Percent in Pace:</b>	78%

**Conditions Not Readily Apparent to the Driver:**

Little to no shoulder limits recovery distance. Open ditches. Driveways and road intersections near bends in the road allows for potential "blind" spots.

**Conclusions & Recommendations**

On the basis of an engineering and traffic investigation as reported above there are two viable options. The first is to keep the speed limit at 40 mph which essentially aligns with the 85th % speed. The second option per Section 22358.6 (c) of the California Vehicle Code allows jurisdictions to "round down the speed limit to the lower five miles per hour increment", which would result in a speed limit of 35 mph. Notes:(collision data from SWITRS (2019-2021))

<b>Recommended Speed limit:</b>	35 or 40 mph
---------------------------------	--------------

Jonathan Olson, County Engineer Del Norte County

Date

\* Statewide Travel and Crash Rate for 2 & 3 lane roads Rural (outside city), From 2021 Crash Data on California State Highways (road miles, travel, crashes, crash rates)

<b>ENGINEERING AND TRAFFIC SURVEY</b>	
STREET NAME	Boulder Ave
LIMITS	Railroad - Lake Earl
COLLECTION LOCATION	At Railroad intersection
ROAD DESCRIPTION	2 LANE (1-WESTBOUND, 1-EASTBOUND)
POSTED SPEED	40 MPH
85TH PERCENTILE SPEED	39
DATE OF SURVEY	11-7-23
START TIME	1:15 P.M.
END TIME	3:30 P.M.
WEATHER	OTHER
ROAD SURFACE	Dry
ROADWAY CONDITION	NO UNUSUAL CONDITION
FUNCTIONAL CLASSIFICATION	LOCAL
OBSERVER	Mike Peeples
CHP RADAR #	137378
RADAR SERIAL #	AS001210

<b>ENGINEERING AND TRAFFIC SURVEY</b>			
<b>STREET NAME</b>	<b>Boulder Ave</b>		
<b>LIMITS</b>	<b>Railroad - Lake Earl</b>		
<b>SPEED</b>	<b># OF VEHICLES</b>	<b>% OF VEHICLES</b>	<b>CUMMULATIVE % OF VEHICLES</b>
55	0	0%	100%
54	0	0%	100%
53	0	0%	100%
52	0	0%	100%
51	0	0%	100%
50	0	0%	100%
49	0	0%	100%
48	0	0%	100%
47	0	0%	100%
46	0	0%	100%
45	0	0%	100%
44	2	8%	100%
43	0	0%	92%
42	0	0%	92%
41	1	4%	92%
40	0	0%	88%
39	2	8%	88%
38	1	4%	80%
37	2	8%	76%
36	2	8%	68%
35	3	12%	60%
34	1	4%	48%
33	1	4%	44%
32	0	0%	40%
31	3	12%	40%
30	4	16%	28%
29	1	4%	12%
28	0	0%	8%
27	0	0%	8%
26	0	0%	8%
25	2	8%	8%
<b>TOTAL</b>	<b>25</b>		
~ SPEEDS GREATER THAN 55 MPH INCLUDED AT 55 MPH ~			
~ SPEEDS LESS THAN 25 MPH INCLUDED AT 25 MPH ~			

<b>ENGINEERING AND TRAFFIC SURVEY</b>	
STREET NAME	Boulder Ave
LIMITS	Railroad - Lake Earl
COLLECTION LOCATION	At Railroad intersection
ROAD DESCRIPTION	2 LANE (1-WESTBOUND, 1-EASTBOUND)
POSTED SPEED	40 MPH
85TH PERCENTILE SPEED	40
DATE OF SURVEY	11-8-23
START TIME	8:40 A.M.
END TIME	11:20 A.M.
WEATHER	Clear
ROAD SURFACE	Dry
ROADWAY CONDITION	NO UNUSUAL CONDITION
FUNCTIONAL CLASSIFICATION	LOCAL
OBSERVER	Mike Peeples
CHP RADAR #	137378
RADAR SERIAL #	AS001210

<b>ENGINEERING AND TRAFFIC SURVEY</b>			
<b>STREET NAME</b>	<b>Boulder Ave</b>		
<b>LIMITS</b>	<b>Railroad - Lake Earl</b>		
<b>SPEED</b>	<b># OF VEHICLES</b>	<b>% OF VEHICLES</b>	<b>CUMMULATIVE % OF VEHICLES</b>
55	0	0%	100%
54	0	0%	100%
53	0	0%	100%
52	0	0%	100%
51	0	0%	100%
50	0	0%	100%
49	0	0%	100%
48	0	0%	100%
47	1	4%	100%
46	0	0%	96%
45	0	0%	96%
44	1	4%	96%
43	0	0%	92%
42	1	4%	92%
41	0	0%	88%
40	2	8%	88%
39	1	4%	80%
38	1	4%	76%
37	4	16%	72%
36	3	12%	56%
35	3	12%	44%
34	3	12%	32%
33	1	4%	20%
32	2	8%	16%
31	0	0%	8%
30	1	4%	8%
29	0	0%	4%
28	0	0%	4%
27	0	0%	4%
26	0	0%	4%
25	1	4%	4%
<b>TOTAL</b>	<b>25</b>		
~ SPEEDS GREATER THAN 55 MPH INCLUDED AT 55 MPH ~			
~ SPEEDS LESS THAN 25 MPH INCLUDED AT 25 MPH ~			