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# Memorandum

The City of Traverse City  
Engineering Department



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TO: Timothy J. Lodge, P.E., City Engineer  
FROM: John Zarafonitis, Seasonal Engineering Intern  
DATE: Friday, November 6, 2015  
SUBJECT: 2 Day Speed Study of Railroad Ave. between State St. and Washington St.

City Engineering performed an on-site 2 day speed count beginning Tuesday, November 3, 2015 at 5 pm until Friday, November 6, 2015 at 10 am on Railroad Ave. between State St. and Washington St. This memo is to formalize City Engineering's initial findings and observations with regard to the speeds of vehicles on Railroad Ave.

The data was gathered using a Jamar Radar Recorder which collected traffic data, including vehicle speed, for each lane of traffic (eastbound and westbound). This information was then analyzed and the data for each lane compiled into one report, regardless of direction, using TraxPro. The TraxPro report organized the speeds of the vehicles into groups based on 5 mile per hour increments, starting with 0-15 miles per hour. The report shows how many vehicles were within the specified speed range during the time indicated by the report. The speed data was also analyzed through TraxPro's Police Report program to evaluate the possible percentage of enforceable violations. This data was then organized into a small colored chart where red means high enforcement potential and green means low on a total scale for enforceable violations of 30 percent. For this report the enforceable minimum speed a vehicle would need to be traveling was set to 5 miles per hour over the posted speed limit.

During the 2 day study, 3581 vehicles were recorded on this section of Railroad Ave. with about 74 percent of vehicles traveling between 16 and 25 miles per hour with an average speed of 22 miles per hour. The percentage of vehicles recorded at speeds over 25 miles per hour was 19.6 percent. Northwest bound and southeast bound vehicles had similar values for all of the above statistics except for the actual number of vehicles travelling in either direction. There were 1707 vehicles recorded going within the pace speed heading in the northwest bound direction, a little under double the 931 recorded travelling southeast. The number of vehicles going over the posted speed limit had the same relationship, with 442 headed northwest in comparison to the 259 going southeast.

## Summary (Combined):

- Speed Limit: 25 mph
- Number of Recorded Vehicles (2 day): 3581
- Average Speed: 22 mph
- Total Enforcement Rating: Low
- Total Percentage Above Speed Limit: 19.6 %

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	Average Daily Traffic (#)	Percent Change (%)
2013 (July)	1,613	-10.86%
2015 (November)	1,455	

Encl.: Detailed TraxPro Speed Reports (Combined and Directional)  
TraxPro Enforcement Report