

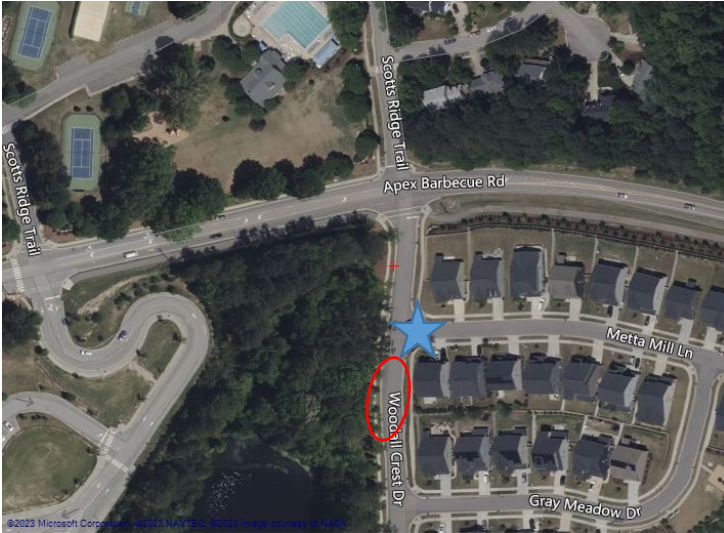


Transportation and Infrastructure Development

Traffic Calming Study
Date: 6/7/2023 – 6/16/2023


Study by: Sajid Hassan

Location: Woodall Crest Dr south of Apex Barbecue



STATISTICS

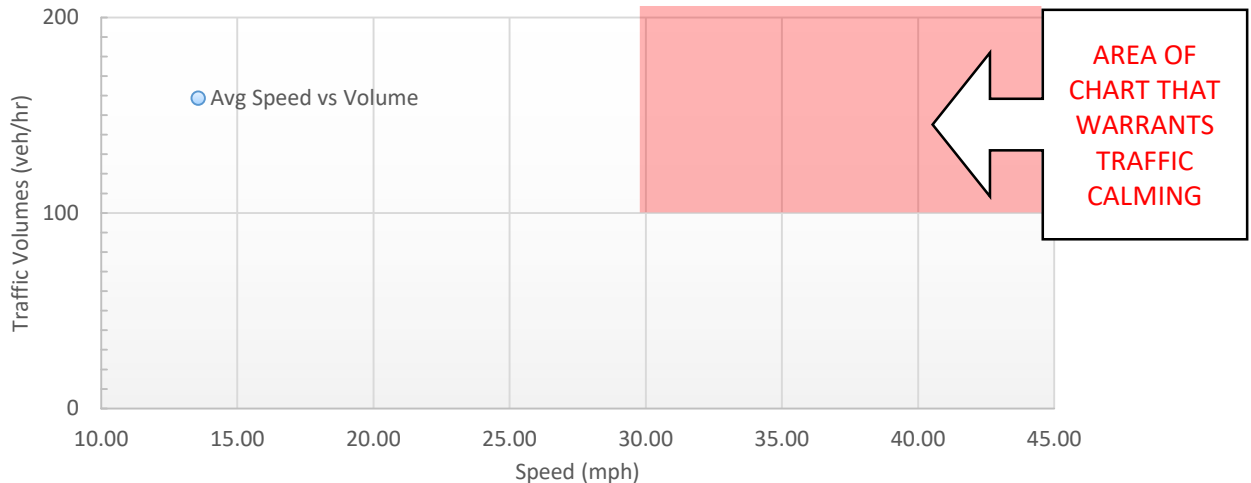
Total Vehicle Count = 2,389 vpd
Average Daily Traffic = 269 vpd
Posted Speed limit = 25 mph
Average Speeds = 23.4 mph
85th %tile Speed = 29 mph
% Speeders (>30mph) = 11.4%
% Heavy vehicle speeders = 0.59%

 Traffic counter location

 Zone of detection

RESULTS OF STUDY

Avg Speed vs Volume (All Hours in the Study)





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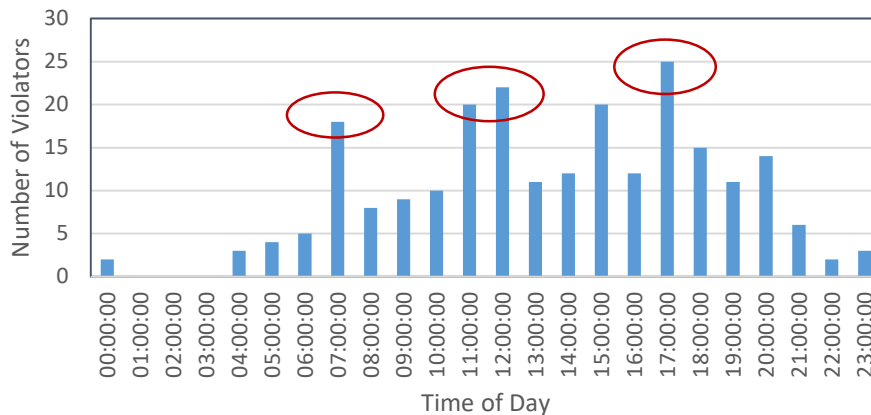
TRAFFIC CALMING CRITERIA

- Posted speed is 25 miles per hour - **MET**
- Roadway is not a Collector Street or Thoroughfare – **NOT MET**
- The average speed exceeds 30 miles per hour during any one-hour period in which the number of vehicles meets or exceeds 100. – **NOT MET**
- The data collected to determine average speed may be based on an average of 100 vehicles per hour or more over multiple days.- **NOT MET**
- Installation of traffic calming devices along the street is not anticipated to create unacceptable delays in emergency response times for residences served by the street in the judgment of the Town’s Police Chief and Fire Chief.- **Not Applicable**

RECOMMENDATIONS

- TEMPORARY SPEED HUMPS **ARE NOT** SUGGESTED BASED ON TRAFFIC VOLUME AND SPEED CRITERIA
 - Per the UDO, traffic calming devices (speed humps) are not warranted based on traffic volume and speed data gathered from the traffic study.
 - Average speeds were observed to be typical on residential streets in Apex.
 - 85th percentile speeds were observed to be higher than what’s typical on residential streets in Apex.
 - Number of excessive speeding violations (above 30 mph) was observed to be significant (2.2%).
 - Truck traffic speeding was not seen to be a significant underlying issue (0.59% of speeders were large vehicles).
- Traffic staff **RECOMMENDS** enforcement strategies due to presence of speeders (over 30 mph). Recommend targeted enforcement of morning, lunch, afternoon, and delivery peak times:

Time of Day Violations (>30 mph)



1. 7AM – 8AM
2. 11AM – 1PM
3. 5PM – 6PM



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SPEED DISTRIBUTION

