
Belmont Subdivision

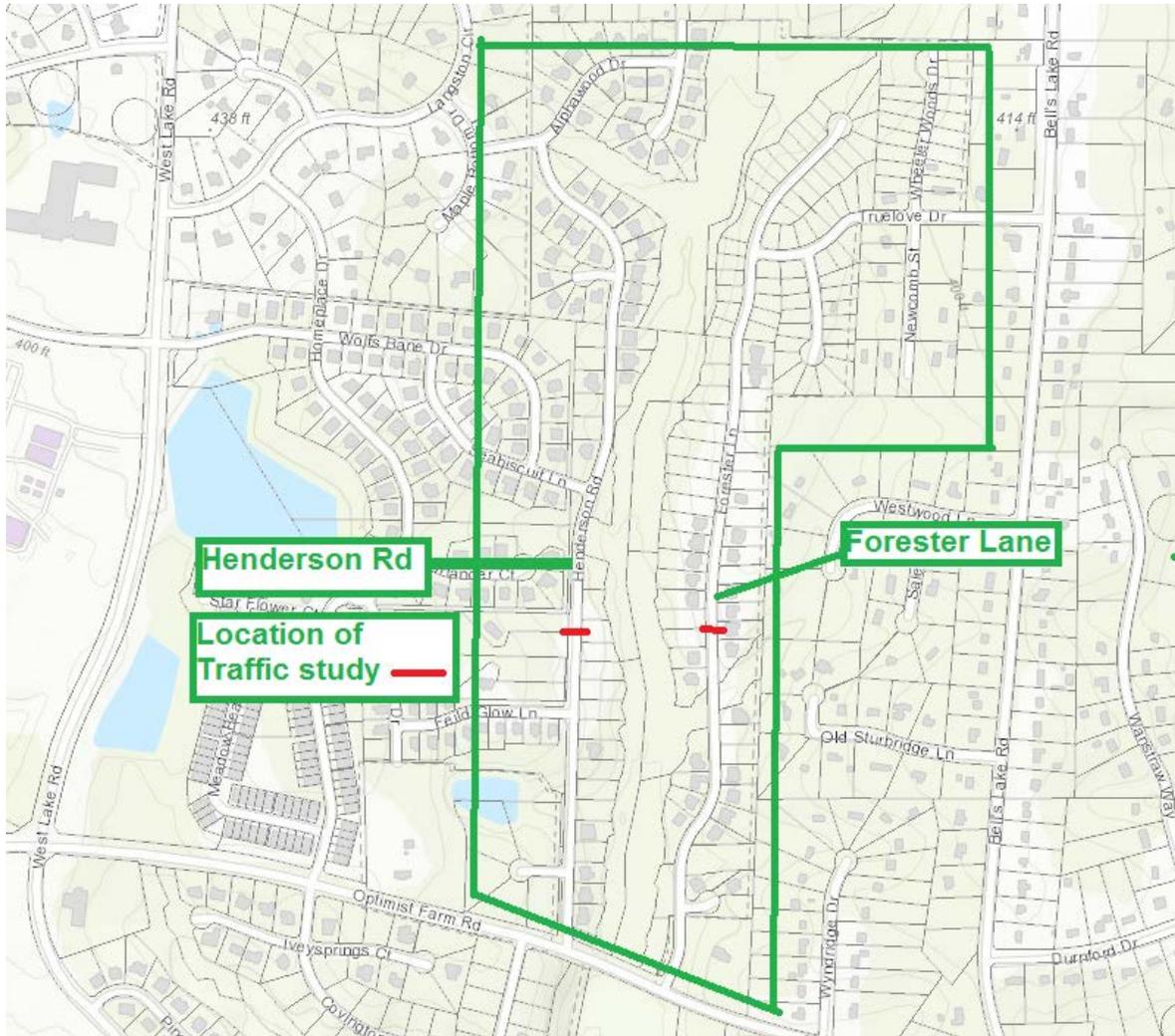
Traffic Data Summary

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Belmont neighborhood

Introduction

The following summary provides results from the traffic speed study conducted within the Belmont neighborhood in Cary, North Carolina. From the results of this data collection, traffic calming measures would be recommended by staff on Forester Lane and Henderson Road.



Belmont Neighborhood

Average Daily Traffic

Average Daily Traffic (ADT) is the total vehicle volume during a given time period (in whole days), greater than one day and less than one year, divided by the number of days in that time period. It is common to see a fluctuation in the average daily traffic along a road. Therefore, these values listed below are averages of the 24 hour counts that are comprised in the data sets. The ADT data is presented below for the traffic counts that were conducted along Edgemore Avenue. This ADT is appropriate for this local road.

Road	Year	ADT (vehicles per day)
Henderson Road	2019	248

Road	Year	ADT (vehicles per day)
Forester Lane	2019	367

Roadway and Speed Data

Speed data was collected along both Forester Lane and Henderson Road from January 21st to January 23rd, 2019. Also, both roads are classified as local streets with a posted speed limit of 25 mph. The results of the data collection effort are provided.

Road	Date	50 th Percentile Speed (mph)		
		NB	SB	Average
Henderson Road	1/2019	27	28	27.5

Road	Date	85 th Percentile Speed (mph)		
		NB	SB	Average
Henderson Road	1/2019	33	34	33.5

Road	Date	50 th Percentile Speed (mph)		
		NB	SB	Average
Forester Lane	1/2019	27	27	27

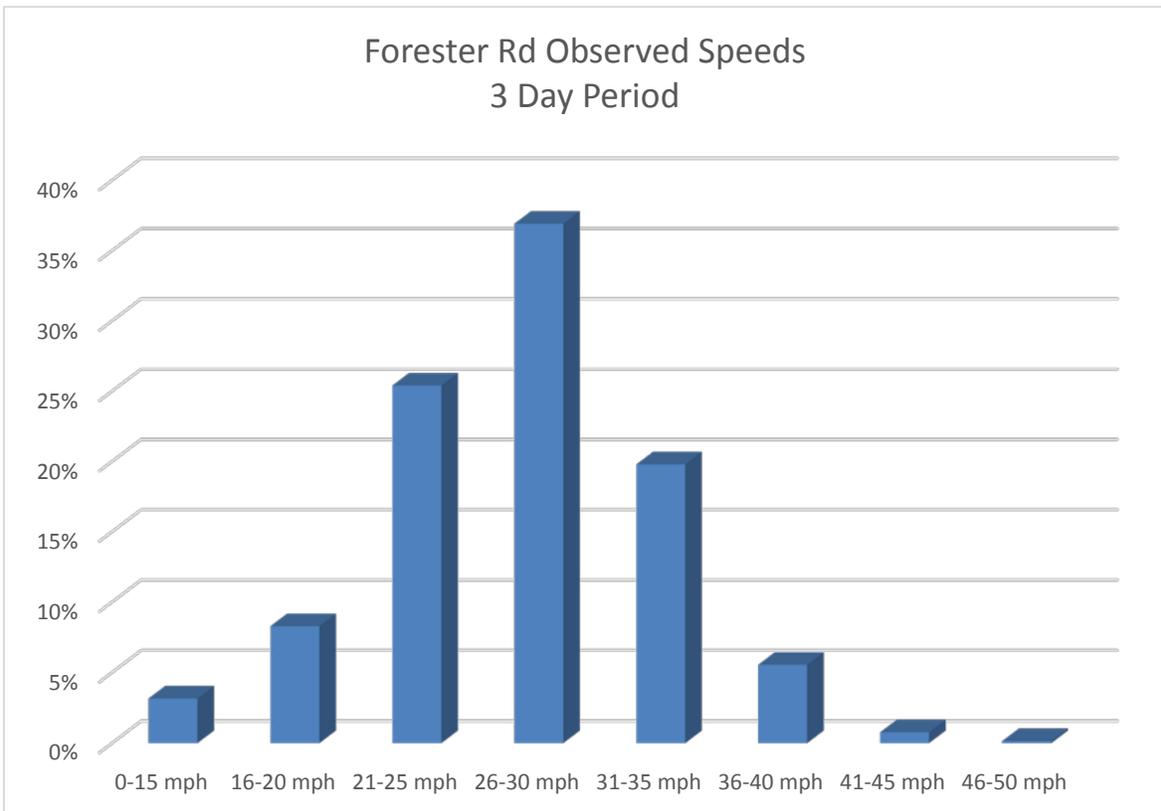
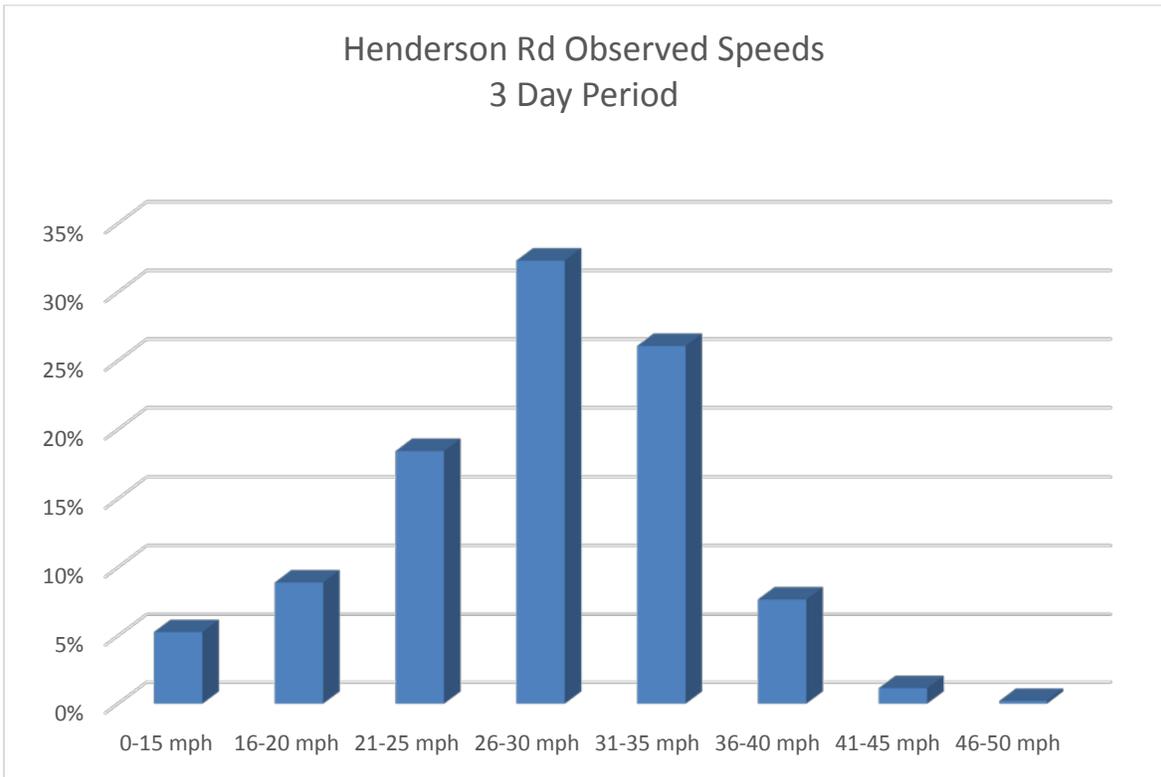
Road	Date	85 th Percentile Speed (mph)		
		NB	SB	Average
Forester Lane	1/2019	26	32	29

Based on the data collected, the speed results are higher than normal for a local road with a posted speed limit of 25 mph. Generally, the 85th percentile speed should closely resemble the posted speed limit/design speed of the road, which the data indicates is 33 mph and above the 25 mph speed limit.

Number of Vehicles Detected in Each Speed Bin

Most traffic streams have speeds that are normally distributed. This means that most values for speed typically occur in a central range, with fewer values occurring outside of this range on either the high or the low side. Few drivers will drive extremely fast or extremely slow in comparison to others. The figure below shows the comparison of the

Belmont neighborhood



Belmont Neighborhood

Based on the percentage of observations for each speed bin, the highest percentage of vehicles travel between the speeds of 26 to 30 mph. The speed bin ranges indicate a given percentage of vehicles are driving above the posted speed limit of 25 mph. It is common to see 1-2% of the speeds in a ticketable range which tends to be 10 mph over the speed limit for this roadway type and vehicular volume. This data shows 5% of speeds in this range which is above average for this street classification.

Conclusion

From the results of this data collection, traffic calming measures would be recommended by staff and supports the applicants request. Moving forward, Town staff will meet with the HOA or designee to discuss the influence area and develop a concept plan.