

Tallyho Trail Traffic Calming Report 2

Date: 9/20/2016

Bergen Watterson, Carrboro Planning Department

Traffic calming requests in Carrboro are processed in accordance with the [Residential Traffic Management Plan \(RTMP\)](#), originally adopted by the Board of Aldermen in June 1996 and most recently revised in October 2006.

Background and Request

On May 3, 2012, Laura Wenzel of the Fox Meadow neighborhood submitted a traffic calming request for Tallyho Trail from Huntsman Ct. to Reynard Rd. Ms. Wenzel described the following concerns:

- Tallyho Tr. is narrow with no sidewalks, bike lanes, or shoulders
- The road is windy and hilly with several blind corners
- Residents of the neighborhood and adjacent neighborhood, including many children, walk, jog, and cycle along the road
- Deer cross the road at night
- Driving faster than the 25 mph speed limit occurs frequently and is an easy habit to fall into

Ms. Wenzel suggested that Stage 1 measures be tried before considering Stage 2. The RTMP process was followed—the neighbors submitted a petition with signatures from 80% of the affected properties, the Town conducted 48-hour traffic counts and two-hour bike/pedestrian counts, and completed the evaluation and report for Tallyho Trail. The report went to the Traffic and Parking Committee and the Transportation Advisory Board on June 5th, 2014, and to the Board of Aldermen on September 16th, 2014. The Board of Aldermen recommended that Stage 1 measures be undertaken and that staff re-evaluate the road after 3-6 months.

Over the next several months Town staff considered various Stage 1 traffic calming measures, such as signage, pavement marking, managing vegetation on sides of the road, and a holding neighborhood meeting for outreach and education. The Town Public Works installed additional speed limit signs and relocated existing signs to better meet current standards with regard to placement. The department also trimmed vegetation along the road to improve visibility. The Police Department deployed the speed radar trailer from May 23rd to May 27th, 2016. Carrboro police officers also conducted speed enforcement operations on several occasions.

In April 2015 Town staff met Ms. Wenzel and another resident, Molly Mullin, for a tour of Tallyho Trail and a discussion of traffic calming concerns. In May 2016 Lynn Carrino, another resident of Tallyho Trail, expressed concern over speeding in the neighborhood. The Police Department placed a speed radar sign on Tallyho Trail for a week in late May 2016, and Town staff conducted 48-hour traffic counts and two-hour bicycle/pedestrian counts. Ms. Carrino emailed again in early August to request an update on the process.

Evaluation

The following evaluation focuses primarily on the most recent counts done in May 2016, but also compares speeds and volumes to the counts done in September 2013.

Traffic volume and 85th percentile speed

Town staff conducted two-way, 48-hour traffic and speed counts at four mid-block locations along the street on May 11-12, 2016. These were the same locations as the traffic counts in September 2013:

- 1000 block, between Reynard Rd. and Bugle Ct.
- 1200 block, between Bugle Ct. and Lair Ct.
- 1400 block, between Bugle Ct. and Lair Ct.
- 1500 block, between Lair Ct. and Huntsman Ct.

The speed limit on Tallyho Trail is 25mph.

85th percentile refers to the speed at or below which 85% of cars are travelling. For each counter location, the travel direction that had the higher 85% percentile speed was used for the analysis.

Tallyho Trail is classified as a *subcollector*, which is a road that is designed to handle 200-800 vehicle trips per day. No segment traffic volumes exceeded the 800 expected vehicles per day threshold for subcollector streets.

Overall, traffic counts and speeds were comparable to the counts done in September 2013, with just a slight general increase in number of vehicles.

The results from the traffic counters are included in the attachments.

Bicycle and pedestrian volumes

On Tuesday, May 31, 2016 from 3:00pm-5:00pm Town staff conducted two-hour pedestrian and bicycle counts on the segment of Tallyho Trail between Huntsman Ct. and Staffield Ln. This was the same location that was used for bicycle and pedestrian counts in September 2013 and was considered to be a good proxy location for the entire street.

Overall, the number of bicycle and pedestrians counted during this two-hour period was significantly less than was observed in September 2013.

The results are included in the attachments.

Bus stops

Although the Chapel Hill Transit HS route serves adjacent Rogers Road, there are no CHT buses on Tallyho Trail itself.

Consulting a list of bus stops provided by Chapel Hill-Carrboro City Schools, there are seven stops along Tallyho Trail that collect students attending Morris Grove Elementary, Smith Middle School and Chapel Hill High School.

Pedestrian generators

This analysis, which applies to retail locations and parks, was conducted using ArcGIS Network Analyst. Tallyho Trail is not within the required distance of .6 miles of any park or retail location.

Scoring Summary

For a road to be eligible for Stage 2 traffic calming it must receive a combined total of at least 12 points in the “Traffic Volume” and “85th Percentile Speed” criteria and more than 25 points total. The evaluation shows that all four sections of Tallyho Trail are eligible for Stage 2 traffic calming measures.

Location	Total Points	Vol/Spd Pts	Eligible Stage
1000 Tallyho	30	16	Stage 2
1200 Tallyho	30	16	Stage 2
1400 Tallyho	34	20	Stage 2
1500 Tallyho	36	22	Stage 2

Next Steps

In the discussion of staff review on page 4, the RTMP describes the process for recommending traffic calming measures as follows:

For streets eligible for both Stage 1 and Stage 2 traffic calming, town staff may recommend that Stage 1 traffic calming measures be implemented prior to implementing Stage 2 measures. Once Stage 1 Traffic Calming measures are implemented, town staff will wait approximately three to six months and collect traffic speed and volume data and evaluate other traffic conditions on the street. The data would then be analyzed using the Traffic Calming Criteria to determine if the Stage 1 Traffic Calming measures were successful. If the measures were successful, then the traffic calming process will end at this point. Otherwise, town staff will move on to analyze and recommend possible Stage 2 Traffic Calming measures.

The findings from counts in 2014 and 2016 indicate that Stage 2 traffic calming measures are warranted along Tallyho Trail. The RTMP outlines a process by which staff prepares a design for Stage 2 improvements for the Board’s consideration. The plan is to include specific information relating to the type of device and the proposed location(s) for its installation. The configuration of Tallyho Trail brings unique challenges to traffic calming design, in that it is a long, windy, narrow road. The outreach meeting with residents will be critical to identify the specific areas along the road where speeding is regularly observed and to determine the most suitable traffic calming devices for existing conditions.

Once a plan is formulated it will be brought to the TAB for review and ultimately to the Board for consideration. In accordance to the RTMP, staff will provide mailed notice to residents in the

area of influence with information regarding the type of traffic calming measures and their proposed locations in advance of the TAB and Board of Aldermen meetings.

Anticipated Schedule

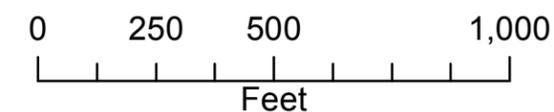
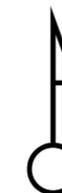
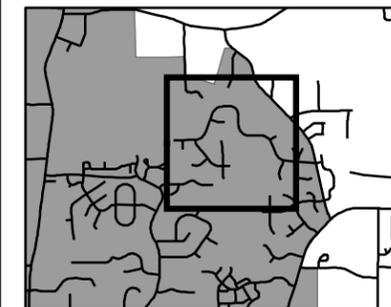
- August 8, 2016: Traffic and Parking Committee consideration
- September 1, 2016: TAB consideration of Stage 1
- September 27: Board of Aldermen update
- October 12: Neighborhood Meeting
- Fall – Winter 2016-2017: Stage 2 study and design development
- Winter 2016-2017: TAB consideration of Stage 2 recommendation
- Late Winter-Early Spring-2017: Board of Aldermen consideration of Stage 2 recommendation

Additional Notes

- Tallyho Tr. is 1.07 miles in length
- Tallyho Tr. has only one access and egress to the arterial street system at Rogers Rd.
- Tallyho Tr. is the only access for several subcollector or local streets:
 - Kit Ln.
 - Brace Ln.
 - Hound Ct.
 - Bugle Ct.
 - Lair Ct.
 - Huntsman Ct.
 - Staffield Ln.
 - Brendan Ct.
 - Whitmore Cir.
- In total, Tallyho Tr. serves approximately 130 residential properties
- Tallyho Tr. was previously a State-maintained residential subdivision road. It was accepted by the Town of Carrboro in July 2011, five years after annexation of the Northern Area in 2006. Prior to Town acceptance, it was resurfaced by NCDOT
- The road is about 20 ft. wide with no centerline and no sidewalks, bike facilities, or curb. Horizontal curves in the road limit sight distance.



Tallyho Trail: Area of Influence



Legend

-  Buildings
-  Area of Influence
-  Properties



TOWN OF CARRBORO
 301 W. Main St.
 Carrboro, NC 27510
 Created May 25, 2012

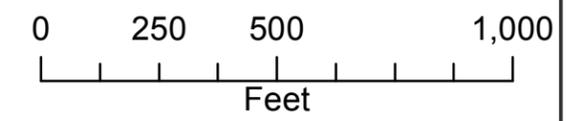
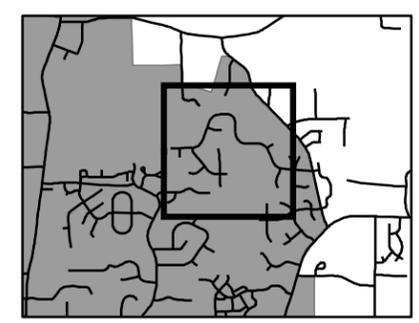
NC State Plane Coordinate System (NAD83)

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Tallyho Trail: Area of Influence



- Legend**
- Buildings
 - Area of Influence
 - Properties



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1000 Tallyho Trail
Traffic Calming Criteria

Criteria	Application	Points
<i>Traffic Volume</i>	<i>Criteria</i> - 5 points for every 20% of volume that exceeds the expected number of vehicles per day (vpd) on the street, based on the function of the street (75 vpd for minor streets, 200 vpd for local streets, and 800 vpd for subcollector and collector streets).	0 - Tallyho Trail is classified as a subcollector (165 vpd)
<i>85th Percentile Speed</i>	<i>Criteria</i> - 2 points for every mph that the 85th percentile speed exceeds the posted speed limit	16 - 85th percentile = 33mph
<i>Pedestrian Volume</i>	<i>Criteria</i> - 1 point for every 10 pedestrians if the street has a sidewalk, 5 points per 10 pedestrians if no sidewalk. Counts are made in either the peak traffic hour or the hour wieh students are traveling to or from school	0 - 6 pedestrians
<i>Bicycle Volume</i>	<i>Criteria</i> - 1 point for every 10 cyclists if the street has bike lanes, 3 points per 10 cyclists if no bike lanes. Counts are made in either the peak traffic hour or the hour when students are traveling to or from school	0 - 5 bicycles
<i>Bus Stops</i>	<i>Criteria</i> - 1 point for each transit stop and 2 points for each school bus stop on the street	14 - 7 CHCCS bus stops
<i>Proximity to Pedestrian Generator (Retail and Parks)</i>	<i>Criteria</i> - 5 points if within .2 miles, 3 points if within .4 miles, 1 point if within .6 miles	0 - no retail or parks within .6 miles
		TOTAL POINTS: 30

1200 Tallyho Trail
Traffic Calming Criteria

Criteria	Application	Points
<i>Traffic Volume</i>	<i>Criteria</i> - 5 points for every 20% of volume that exceeds the expected number of vehicles per day (vpd) on the street, based on the function of the street (75 vpd for minor streets, 200 vpd for local streets, and 800 vpd for subcollector and collector streets).	0 - Tallyho Trail is classified as a subcollector (223 vpd)
<i>85th Percentile Speed</i>	<i>Criteria</i> - 2 points for every mph that the 85th percentile speed exceeds the posted speed limit	16 - 85th percentile = 33mph
<i>Pedestrian Volume</i>	<i>Criteria</i> - 1 point for every 10 pedestrians if the street has a sidewalk, 5 points per 10 pedestrians if no sidewalk. Counts are made in either the peak traffic hour or the hour wieh students are traveling to or from school	0 - 6 pedestrians
<i>Bicycle Volume</i>	<i>Criteria</i> - 1 point for every 10 cyclists if the street has bike lanes, 3 points per 10 cyclists if no bike lanes. Counts are made in either the peak traffic hour or the hour when students are traveling to or from school	0 - 5 bicycles
<i>Bus Stops</i>	<i>Criteria</i> - 1 point for each transit stop and 2 points for each school bus stop on the street	14 - 7 CHCCS bus stops
<i>Proximity to Pedestrian Generator (Retail and Parks)</i>	<i>Criteria</i> - 5 points if within .2 miles, 3 points if within .4 miles, 1 point if within .6 miles	0 - no retail or parks within .6 miles
		TOTAL POINTS: 30

1400 Tallyho Trail
Traffic Calming Criteria

Criteria	Application	Points
<i>Traffic Volume</i>	<i>Criteria</i> - 5 points for every 20% of volume that exceeds the expected number of vehicles per day (vpd) on the street, based on the function of the street (75 vpd for minor streets, 200 vpd for local streets, and 800 vpd for subcollector and collector streets).	0 - Tallyho Trail is classified as a subcollector (443 vpd)
<i>85th Percentile Speed</i>	<i>Criteria</i> - 2 points for every mph that the 85th percentile speed exceeds the posted speed limit	20 - 85th percentile = 35mph
<i>Pedestrian Volume</i>	<i>Criteria</i> - 1 point for every 10 pedestrians if the street has a sidewalk, 5 points per 10 pedestrians if no sidewalk. Counts are made in either the peak traffic hour or the hour wieh students are traveling to or from school	0 - 6 pedestrians
<i>Bicycle Volume</i>	<i>Criteria</i> - 1 point for every 10 cyclists if the street has bike lanes, 3 points per 10 cyclists if no bike lanes. Counts are made in either the peak traffic hour or the hour when students are traveling to or from school	0 - 5 bicycles
<i>Bus Stops</i>	<i>Criteria</i> - 1 point for each transit stop and 2 points for each school bus stop on the street	14 - 7 CHCCS bus stops
<i>Proximity to Pedestrian Generator (Retail and Parks)</i>	<i>Criteria</i> - 5 points if within .2 miles, 3 points if within .4 miles, 1 point if within .6 miles	0 - no retail or parks within .6 miles
		TOTAL POINTS: 34

1500 Tallyho Trail
Traffic Calming Criteria

Criteria	Application	Points
<i>Traffic Volume</i>	<i>Criteria</i> - 5 points for every 20% of volume that exceeds the expected number of vehicles per day (vpd) on the street, based on the function of the street (75 vpd for minor streets, 200 vpd for local streets, and 800 vpd for subcollector and collector streets).	0 - Tallyho Trail is classified as a subcollector (506 vpd)
<i>85th Percentile Speed</i>	<i>Criteria</i> - 2 points for every mph that the 85th percentile speed exceeds the posted speed limit	22 - 85th percentile = 36mph
<i>Pedestrian Volume</i>	<i>Criteria</i> - 1 point for every 10 pedestrians if the street has a sidewalk, 5 points per 10 pedestrians if no sidewalk. Counts are made in either the peak traffic hour or the hour wieh students are traveling to or from school	0 - 6 pedestrians
<i>Bicycle Volume</i>	<i>Criteria</i> - 1 point for every 10 cyclists if the street has bike lanes, 3 points per 10 cyclists if no bike lanes. Counts are made in either the peak traffic hour or the hour when students are traveling to or from school	0 - 5 bicycles
<i>Bus Stops</i>	<i>Criteria</i> - 1 point for each transit stop and 2 points for each school bus stop on the street	14 - 7 CHCCS bus stops
<i>Proximity to Pedestrian Generator (Retail and Parks)</i>	<i>Criteria</i> - 5 points if within .2 miles, 3 points if within .4 miles, 1 point if within .6 miles	0 - no retail or parks within .6 miles
		TOTAL POINTS: 36

May 11-12, 2016

Loc	AADT			Exp VPD	Pts	Limit	85th Percentile		Difference		Pts	
	WB	EB	Total				WB	EB	WB	EB	WB	EB
1000	165	165	330	800	0	25	29.84	33.03	4.84	8.03	8	16
1200	223	203	446	800	0	25	30.87	33.1	5.87	8.1	10	16
1400	222	246	443	800	0	25	35.38	32.77	10.38	7.77	20	14
1500	253	263	506	800	0	25	33.58	36.04	8.58	11.04	16	22

September 17-18, 2013

Loc	AADT			Exp VPD	Pts	Limit	85th Percentile		Difference		Pts	
	WB	EB	Total				WB	EB	WB	EB	WB	EB
1000	154	150	304	800	0	25	31.41	29.92	6.41	4.92	12	8
1200	203	196	399	800	0	25	34.34	32.56	9.34	7.56	18	14
1400	226	221	447	800	0	25	37.14	33.42	12.14	8.42	24	16
1500	238	252	490	800	0	25	35.8	34.35	10.8	9.35	20	18

September 2013 to May 2016

Loc	AADT		85th Percentile		Difference
	Sep-13	May-16	Sep-13	May-16	
1000	304	330	31.41	33.03	1.62
1200	399	446	34.34	33.1	-1.24
1400	447	443	37.14	35.38	-1.76
1500	490	506	35.8	36.04	0.24

Tallyho Trail
Bicycle and Pedestrian Counts

Date: 5/31/2016

Tallyho Trail between Huntsman Ct. and Staffield Ln.

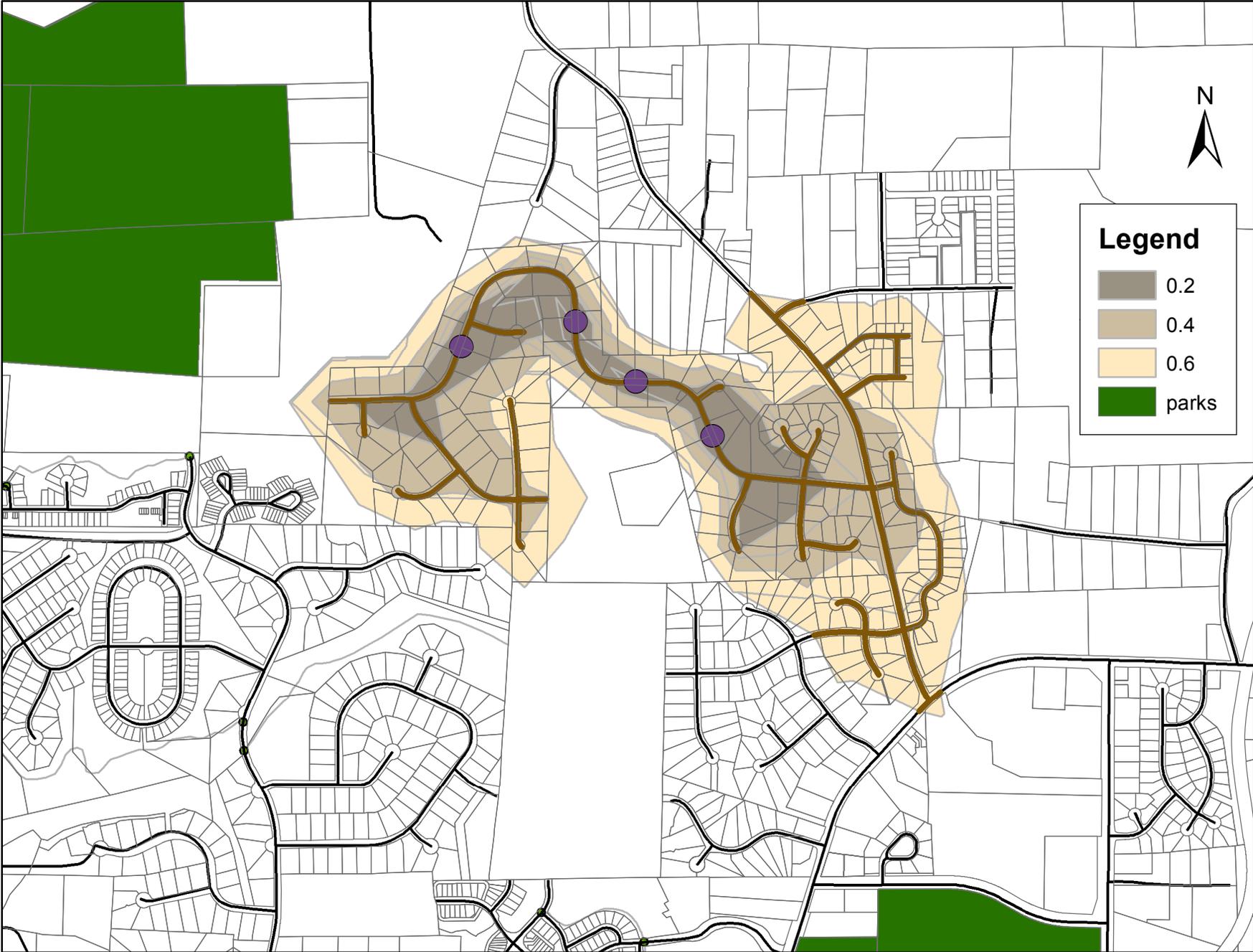
Time: 3pm-5pm

Time	Peds	Bikes
3:00		1
3:15	2	2
3:30	1	
3:45		1
4:00	3	
4:15		
4:30		1
4:45		
Total	6	5

Bus Stops

Reynard Rd & Tallyho Tr Smith MS
Tallyho Tr & Lair Ct Smith MS
Staffield Ln & Tallyho Tr Morris Grove
Reynard Rd & Tallyho Tr Morris Grove
S Hound Ct & Reynard Rd Morris Grove
Bugle Ct & Tallyho Tr CHHS
S. Hound Ct & Reynard Rd CHHS

Tallyho Trail traffic calming request: Pedestrian generator network analysis map: parks



Tallyho Trail traffic calming request: Pedestrian generator network analysis map: retail

