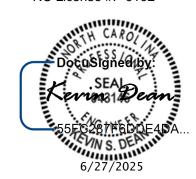


June 27, 2025

Ashley C. Lowery, P.E. Division Traffic Engineer NCDOT Division 5 1041 Prison Camp Road Durham, NC 27705



RE: Signal Warrant Analysis for Rolesville Road at Quarry Road The Point (Young Street PUD) – Rolesville, North Carolina

Ms. Lowery,

This letter summarizes the traffic signal warrant analysis performed for the intersection of Rolesville Road at Quarry Road in Rolesville, North Carolina. This analysis is conducted in association with the portion of The Point development located on the west side of Rolesville Road south of the US 401 Bypass. This portion of the development consists of approximately 750 combined single-family attached and detached residential dwelling units (proposed to be constructed in multiple phases) and will extend Quarry Road west of Rolesville Road. A traffic signal was recommended at this intersection in the *Young Street PUD Traffic Impact Analysis* (Kimley-Horn, June 2019), and this analysis was performed to satisfy the zoning requirement that a traffic signal warrant analysis be performed for this intersection prior to approval of the plat for the 325th lot south of the US 401 Bypass.

Guidelines for Traffic Signal Warrant Analysis

The Manual on Uniform Traffic Control Devices (MUTD) establishes nine traffic signal warrants:

- Warrant 1 Eight-Hour Vehicular Volume
- Warrant 2 Four-Hour Vehicular Volume
- Warrant 3 Peak Hour Vehicular Volume
- Warrant 4 Pedestrian Volume
- Warrant 5 School Crossing
- Warrant 6 Coordinated Signal System
- Warrant 7 Crash Experience
- Warrant 8 Road Network
- Warrant 9 Intersection Near a Grade Crossing

Warrant 1 has three conditions: A – Minimum Vehicular Volume, B – Interruption of Continuous Traffic, and C – Combination. As there are very few pedestrians at this intersection and as it is unlikely that students will be walking to Rolesville High School given the distance,



Warrants 4-6, 8, and 9 are not applicable to this location and were not reviewed for this analysis.

Existing Traffic Conditions

Rolesville Road is a two-lane undivided roadway with left and right-turn lanes and a posted speed limit of 45 mph in the vicinity of Quarry Road. However, there is a school zone along this section of Rolesville Road with a speed limit of 35 mph. Rolesville High School operates from 7:25 AM to 2:18 PM, so for purposes of this analysis the school zone was assumed to be in effect from 7:00-8:00AM and 2:00-3:00PM. The North Carolina Department of Transportation (NCDOT) annual average daily traffic (AADT) map reported a daily volume of approximately 6,500 vehicles per day (vpd) on Rolesville south of Rolesville High School in 2023.

A 14-hour (6:00 AM to 8:00 PM) turning movement count was collected at the subject intersection on April 15, 2025, while area public schools were in session, and the count data is attached.

Warrant Analysis Assumptions

Based on the posted 45 mph speed limit, the 85th percentile speed on Rolesville Road was assumed to be greater than 40 mph in the non-school peak hours. During the school peak hours, the 85th percentile speed on Rolesville Road was assumed to be less than 40 mph based on the posted 35 mph speed limit. The northbound and southbound approaches of Rolesville Road each consist of an exclusive left-turn lane, a through lane, and an exclusive right-turn lane. Based on current/anticipated striping for the eastbound and westbound approaches of Quarry Road and the low volume of current/anticipated east/west through traffic across Rolesville Road, this analysis assumed single-lane approaches with right-turn volumes omitted on each approach.

Applying the above assumptions, existing and future build traffic volumes were then compared to the MUTCD volume thresholds.

Existing Volume Warrants

Based on this analysis, existing volumes at the intersection do not satisfy thresholds for any hours of the eight-hour, four-hour, or peak hour vehicular volume warrants.

Future Build Volume Warrants

While other traffic impact analyses recently performed in the study area applied a 2% annual growth rate and accounted for impacts from multiple approved developments, this analysis only applied a 1% annual growth rate to existing volumes up to the study year 2029, and no approved development site traffic was included in order to present a conservative analysis.



Site traffic for the portion of the development south of US 401 Bypass (Phases 1-9 and 14) was generated using data from the 11th edition of the ITE *Trip Generation Manual* and is summarized below in <u>Table 1</u>. As shown, these units are expected to generate 5,984 new trips on a typical weekday, with 417 new trips during the AM peak hour and 522 new trips during the PM peak hour. It should be noted that there are approximately 70 attached dwelling units planned directly across from the Rolesville High School entrance that are not connected to the rest of the development. Therefore, these units were not included in the analysis.

	T ITE Trip Genera	able 1 ation: Phas	es 1-9, <i>1</i>	14										
LUC	LUC Land Use Intensity Daily AM Peak PM Peak													
LUC	Land OSE	intensity	Total	In	Out	In	Out							
210	Single Family Detached Housing	251 d.u.	2,354	43	129	149	87							
215	Single Family Attached Housing	483 d.u.	3,630	61	184	169	117							
	Total Net New External Trips		5,984	104	313	318	204							

Site traffic distribution was assigned to the study intersection consistent with the June 2019 TIA, which assumed the following distribution:

- 85% from the north via Rolesville Road
- 5% from the south via Rolesville Road
- 55% to the north via Rolesville Road
- 20% to the south via Rolesville Road

As multiple site driveways are provided along Rolesville Road, not all site traffic is expected to enter/exit the site the subject intersection. It is anticipated that approximately 40% of the development traffic will make an eastbound left-turn from the Quarry Road extension onto northbound Rolesville Road.

<u>Table 2</u> below summarizes the Future Build volume warrant analysis for the intersection of Rolesville Road at Quarry Road. As shown, analysis indicates that the future build volumes are projected to satisfy the Eight-Hour Condition B and Four-Hour vehicular volume warrants at the subject intersection.



		Table 2			
Future		rrant Sur	nmary		
End Hour	8 F	lour Warı	rant		
Warrant	1A	1B	1C (Both)	4-Hour	Peak Hour
7:00		Υ			
8:00		Υ	Υ	Y	
9:00	Y	Υ	Υ	Υ	
10:00			Υ		
11:00					
12:00					
1:00		Y	Υ		
2:00					
3:00		Υ			
4:00		Y		Y	
5:00		Y		Υ	
6:00					
7:00		Y	Υ	Υ	
8:00					
9:00					
10:00					
Total	1 hr.	8 hrs.	5 hrs.	5 hrs.	0 hrs.

Crash Experience Warrant

As part of this analysis, crash data was obtained through the NCDOT Traffic Engineering Accident Analysis System (TEEAS) at the intersection of Young Street at Quarry Road for the five-year period between May 2020 and May 2025. There were four reported crashes during that time, all of which were reported as "property-damage only" (PDO) and none of which were reported to include cyclists or pedestrians. Based on this data, the crash experience warrant in MUTCD is not met at this intersection.

Summary and Conclusions

Based on the data and analysis presented herein, the installation of a traffic signal is warranted at the intersection of Rolesville Road at Quarry Road at full build-out of the southern portion of The Point development. In addition to accommodating vehicular traffic, this signal will help facilitate safer bicycle and pedestrian crossings at the subject intersection. Therefore, it is recommended that a traffic signal be installed at this location.



If you have questions, please feel free to contact me at kevin.dean@kimley-horn.com.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

NC License # F-0102

Kevin Dean, P.E.

Project Manager

Cc: Michael Elabarger, Town of Rolesville

Daniel Boulware, P.E., NCDOT District Engineer

3:15 PM

15-Min Count Period		Rolesv (North	ille Rd bound)			Rolesv (South	rille Rd bound)				ry Rd oound)				ry Rd cound)		Total	Hourly Totals
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		Totals
3:30 PM	0	79	1	0	14	71	5	0	0	0	1	0	1	0	16	0	188	698
3:45 PM	0	75	2	0	16	79	2	0	3	0	3	0	5	0	20	0	205	713
4:00 PM	0	81	1	0	18	103	3	0	2	0	0	0	0	0	23	0	231	788
4:15 PM	0	95	1	0	20	101	2	0	2	1	1	0	6	0	10	0	239	863
4:30 PM	1	82	3	0	24	60	1	0	1	0	0	0	3	0	9	0	184	859
4:45 PM	0	78	6	0	34	71	2	0	4	0	3	0	3	0	16	0	217	871
5:00 PM	0	79	2	0	28	74	0	0	5	0	3	0	4	0	23	0	218	858
5:15 PM	0	93	5	0	31	91	1	0	5	0	1	0	7	0	27	0	261	880
5:30 PM	0	84	1	0	24	96	3	0	2	0	1	0	6	0	23	0	240	936
5:45 PM	2	69	1	0	24	128	0	0	2	0	4	0	4	0	24	0	258	977
6:00 PM	0	62	1	0	13	97	0	0	5	0	1	0	3	0	9	0	191	950
6:15 PM	0	51	2	0	16	54	0	0	3	0	0	0	3	0	12	0	141	830
6:30 PM	0	53	4	0	15	37	0	0	3	0	0	0	1	0	5	0	118	708
6:45 PM	1	73	1	0	10	45	0	0	1	0	0	0	0	0	/	0	138	588
7:00 PM	0	93	5	0	8	28	0	0	0	2	0	0	1	2	8	0	147	544
7:15 PM 7:30 PM	0	33 23	0	0	6 13	46 37	0	0	0	0	0 0	0	2	0	10 7	0	97 83	500 465
7:30 PM 7:45 PM	2	23 14	0	0	11	3 <i>7</i> 36	1	0	3	1	0	0	3	0	9	0	80	407
		North		U	11		bound	U	3			U	3			U	80	407
Peak 15-Min Flowrates											ound				oound		To	tal
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
All Vehicles	8	440	80	0	328	916	36	0	0	0	8	0	20	0	184	0		20
Heavy Trucks	4	12	8		40	4	8		0	0	4		4	0	20		10	04
Buses																		
Pedestrians		0				0				0				0				0
Bicycles Scooters	0	0	0		0	0	0		0	0	0		0	0	0		(0
Comments:																		
comments:																		

Report generated on 4/21/2025 8:54 AM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212



STARLIGHT



							Existing Vo	lumes						
					Mino	r Street					Major	Street		
				Quarry Road	t		Quarry Road			Rolesville Road	d	F	Rolesville Road	t
				EB			WB			NB			SB	
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	TO	07:00 AM	0	0	3	13	0	50	1	135	34	90	265	11
07:00 AM	TO	08:00 AM	4	0	4	29	0	153	6	387	31	163	596	23
08:00 AM	TO	09:00 AM	9	1	8	8	0	48	3	210	5	36	232	24
09:00 AM	ТО	10:00 AM	7	1	4	3	1	43	4	195	3	56	176	23
10:00 AM	TO	11:00 AM	10	1	9	6	2	47	1	195	5	38	148	16
11:00 AM	ТО	12:00 PM	16	1	7	6	0	41	2	132	3	49	209	21
12:00 PM	ТО	01:00 PM	22	2	7	9	1	44	2	190	8	54	206	20
01:00 PM	ТО	02:00 PM	11	0	6	8	0	60	2	145	11	77	202	14
02:00 PM	ТО	03:00 PM	11	1	1	35	1	136	0	365	36	86	233	9
03:00 PM	TO	04:00 PM	9	0	6	14	0	70	0	274	7	73	249	11
04:00 PM	TO	05:00 PM	9	1	4	12	0	58	1	336	11	96	335	8
05:00 PM	TO	06:00 PM	14	0	9	21	0	97	2	325	9	107	389	4
06:00 PM	TO	07:00 PM	12	0	1	7	0	33	1	239	8	54	233	0
07:00 PM	TO	08:00 PM	3	3	0	7	2	34	2	163	5	38	147	3
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

						Existing R	liaht-turn Vo	lumes Adjus	sted					
					Mino	r Street	J				Major	Street		
		•		Quarry Road			Quarry Road		I	Rolesville Road	d	F	Rolesville Road	d
				EB			WB			NB			SB	
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	TO	07:00 AM	0	0	0	13	0	0	1	135	0	90	265	0
07:00 AM	TO	08:00 AM	4	0	0	29	0	0	6	387	0	163	596	0
08:00 AM	TO	09:00 AM	9	1	0	8	0	0	3	210	0	36	232	0
09:00 AM	TO	10:00 AM	7	1	0	3	1	0	4	195	0	56	176	0
10:00 AM	TO	11:00 AM	10	1	0	6	2	0	1	195	0	38	148	0
11:00 AM	TO	12:00 PM	16	1	0	6	0	0	2	132	0	49	209	0
12:00 PM	TO	01:00 PM	22	2	0	9	1	0	2	190	0	54	206	0
01:00 PM	TO	02:00 PM	11	0	0	8	0	0	2	145	0	77	202	0
02:00 PM	TO	03:00 PM	11	1	0	35	1	0	0	365	0	86	233	0
03:00 PM	ТО	04:00 PM	9	0	0	14	0	0	0	274	0	73	249	0
04:00 PM	ТО	05:00 PM	9	1	0	12	0	0	1	336	0	96	335	0
05:00 PM	ТО	06:00 PM	14	0	0	21	0	0	2	325	0	107	389	0
06:00 PM	ТО	07:00 PM	12	0	0	7	0	0	1	239	0	54	233	0
07:00 PM	ТО	08:00 PM	3	3	0	7	2	0	2	163	0	38	147	0
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

INTERSECTION NAME: Quarry Road at Rolesville Road COUNT DATE: 15-Apr-25

INTERSECTION CONDITION: Existing

MAJOR STREET: Rolesville Road # OF APPROACH LANES: 1

MINOR STREET: Quarry Road/Quarry Road # OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N):

85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

Y

				HIGHEST HOUR	WARRA	NT 1, Cond	ition A	WARRA	NT 1, Cond	ition B		WARR	RANT 1, Co	mbination W	/arrant			
			MAJOR ST	MINOR ST							С	ONDITION	A	С	ONDITION E	3	WARRANT 2	WARRANT 3
			BOTH	HIGHEST	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн		
			APPROACHES	APPROACH	STREET	STREET	MET	STREET	STREET	MET	STREET	STREET	MET	STREET	STREET	MET		
THRESHOLD	O VALU	ES —			350	105		525	53		280	84		420	42			
06:00 AM	TO	07:00 AM	491	13	Υ						Υ			Υ				
07:00 AM	TO	08:00 AM	1,152	29	Υ			Υ			Υ			Υ				
08:00 AM	TO	09:00 AM	481	10	Υ						Υ			Υ				
09:00 AM	TO	10:00 AM	431	8	Υ						Υ			Υ				
10:00 AM	TO	11:00 AM	382	11	Υ						Υ							
11:00 AM	TO	12:00 PM	392	17	Υ						Υ							
12:00 PM	TO	01:00 PM	452	24	Υ						Υ			Υ				
01:00 PM	TO	02:00 PM	426	11	Υ						Υ			Υ				
02:00 PM	TO	03:00 PM	684	36	Υ			Υ			Υ			Υ				
03:00 PM	TO	04:00 PM	596	14	Υ			Υ			Υ			Υ				
04:00 PM	TO	05:00 PM	768	12	Υ			Υ			Υ			Υ				
05:00 PM	TO	06:00 PM	823	21	Υ			Υ			Υ			Υ				
06:00 PM	TO	07:00 PM	527	12	Υ			Υ			Υ			Υ				
07:00 PM	ТО	08:00 PM	350	9	Υ						Υ							
08:00 PM	TO	09:00 PM	0	0														
09:00 PM	TO	10:00 PM	0	0														
			7,955	227		•	0		•	0		•	0			0	0	0
					8 HC	URS NEED	ED	8 HC	URS NEED	ED	8 HO	URS OF BC	TH COND	. A AND CC	ND. B NEE	DED	4 HRS NEEDED	1 HR NEEDED
					NO ⁻	T SATISFII	ED	NO.	T SATISFIE	D			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

WARRANT 1 -- Eight-Hour Vehicular Volume Warrant

Condition A: Minimum Vehicular Volume
Condition B: Interruption of Continuous Traffic

Combination: Combination of Condition A and Condition B

WARRANT 2 -- Four-Hour Vehicular Volume Warrant

WARRANT 3 -- Peak Hour Warrant

					N	o-Build Traf	fic Volumes	(Existing +	Growth)					
					Mino	r Street					Major	Street		
				Quarry Road	l		Quarry Road			Rolesville Road	d		Rolesville Roa	d
				EB			WB			NB			SB	
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	ТО	07:00 AM	0	0	3	14	0	52	1	140	35	94	276	11
07:00 AM	ТО	08:00 AM	4	0	4	30	0	159	6	403	32	170	620	23
08:00 AM	ТО	09:00 AM	9	1	8	8	0	50	3	219	5	37	241	24
09:00 AM	ТО	10:00 AM	7	1	4	3	1	45	4	203	3	58	183	23
10:00 AM	ТО	11:00 AM	10	1	9	6	2	49	1	203	5	40	154	16
11:00 AM	ТО	12:00 PM	16	1	7	6	0	43	2	137	3	51	217	21
12:00 PM	ТО	01:00 PM	22	2	7	9	1	46	2	198	8	56	214	20
01:00 PM	ТО	02:00 PM	11	0	6	8	0	62	2	151	11	80	210	14
02:00 PM	ТО	03:00 PM	11	1	1	36	1	142	0	380	37	89	242	9
03:00 PM	ТО	04:00 PM	9	0	6	15	0	73	0	285	7	76	259	11
04:00 PM	ТО	05:00 PM	9	1	4	12	0	60	1	350	11	100	349	8
05:00 PM	ТО	06:00 PM	14	0	9	22	0	101	2	338	9	111	405	4
06:00 PM	ТО	07:00 PM	12	0	1	7	0	34	1	249	8	56	242	0
07:00 PM	ТО	08:00 PM	3	3	0	7	2	35	2	170	5	40	153	3
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

						No-Build R	Right-Turn V	olumes Adju	sted					
					Mino	r Street					Major	Street		
				Quarry Road	i		Quarry Road		ı	Rolesville Road	d	ı	Rolesville Roa	d
				EB			WB			NB			SB	
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	TO	07:00 AM	0	0	0	14	0	0	1	140	0	94	276	0
07:00 AM	TO	08:00 AM	4	0	0	30	0	0	6	403	0	170	620	0
MA 00:80	TO	09:00 AM	9	1	0	8	0	0	3	219	0	37	241	0
09:00 AM	TO	10:00 AM	7	1	0	3	1	0	4	203	0	58	183	0
10:00 AM	ТО	11:00 AM	10	1	0	6	2	0	1	203	0	40	154	0
11:00 AM	TO	12:00 PM	16	1	0	6	0	0	2	137	0	51	217	0
12:00 PM	TO	01:00 PM	22	2	0	9	1	0	2	198	0	56	214	0
01:00 PM	TO	02:00 PM	11	0	0	8	0	0	2	151	0	80	210	0
02:00 PM	TO	03:00 PM	11	1	0	36	1	0	0	380	0	89	242	0
03:00 PM	TO	04:00 PM	9	0	0	15	0	0	0	285	0	76	259	0
04:00 PM	TO	05:00 PM	9	1	0	12	0	0	1	350	0	100	349	0
05:00 PM	TO	06:00 PM	14	0	0	22	0	0	2	338	0	111	405	0
06:00 PM	TO	07:00 PM	12	0	0	7	0	0	1	249	0	56	242	0
07:00 PM	TO	08:00 PM	3	3	0	7	2	0	2	170	0	40	153	0
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

INTERSECTION NAME: Quarry Road at Rolesville Road COUNT DATE: 15-Apr-25

INTERSECTION CONDITION: No-Build

MAJOR STREET: Rolesville Road # OF APPROACH LANES:

MINOR STREET: Quarry Road/Quarry Road #OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N):

85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

Y

				HIGHEST HOUR	WARRA	NT 1, Cond	ition A	WARRA	NT 1, Cond	ition B		WARR	ANT 1, Co	mbination W	/arrant			
			MAJOR ST	MINOR ST							С	ONDITION	4	С	ONDITION E	3	WARRANT 2	WARRANT 3
			BOTH	HIGHEST	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн		
			APPROACHES	APPROACH	STREET	STREET	MET	STREET	STREET	MET	STREET	STREET	MET	STREET	STREET	MET		
THRESHOLI	D VALU	ES —			350	105		525	53		280	84		420	42			
06:00 AM	TO	07:00 AM	511	14	Υ						Υ			Υ				
07:00 AM	TO	08:00 AM	1,199	30	Υ			Υ			Υ			Υ				
08:00 AM	TO	09:00 AM	500	10	Υ						Υ			Υ				
09:00 AM	TO	10:00 AM	448	8	Υ						Υ			Υ				
10:00 AM	TO	11:00 AM	398	11	Υ						Y							
11:00 AM	TO	12:00 PM	407	17	Υ						Υ							
12:00 PM	TO	01:00 PM	470	24	Υ						Υ			Υ				
01:00 PM	TO	02:00 PM	443	11	Υ						Υ			Υ				
02:00 PM	TO	03:00 PM	711	37	Υ			Υ			Υ			Υ				
03:00 PM	TO	04:00 PM	620	15	Υ			Υ			Υ			Υ				
04:00 PM	TO	05:00 PM	800	12	Υ			Υ			Υ			Υ				
05:00 PM	TO	06:00 PM	856	22	Υ			Υ			Υ			Υ				
06:00 PM	TO	07:00 PM	548	12	Υ			Υ			Υ			Υ				
07:00 PM	TO	08:00 PM	365	9	Υ						Υ							
08:00 PM	TO	09:00 PM	0	0														
09:00 PM	TO	10:00 PM	0	0														_
			8,276	232			0			0			0			0	0	0
					8 HC	URS NEED	ED	8 HC	URS NEED	ED	8 HO	URS OF BC	TH COND	. A AND CC	ND. B NEE	DED	4 HRS NEEDED	1 HR NEEDED
					NO.	T SATISFII	ED	NO.	T SATISFIE	ED			NOT SA	TISFIED			NOT SATISFIED	NOT SATISFIED

WARRANT 1 -- Eight-Hour Vehicular Volume Warrant Condition A: Minimum Vehicular Volume

Condition B : Interruption of Continuous Traffic

Combination: Combination of Condition A and Condition B

WARRANT 2 -- Four-Hour Vehicular Volume Warrant

WARRANT 3 -- Peak Hour Warrant

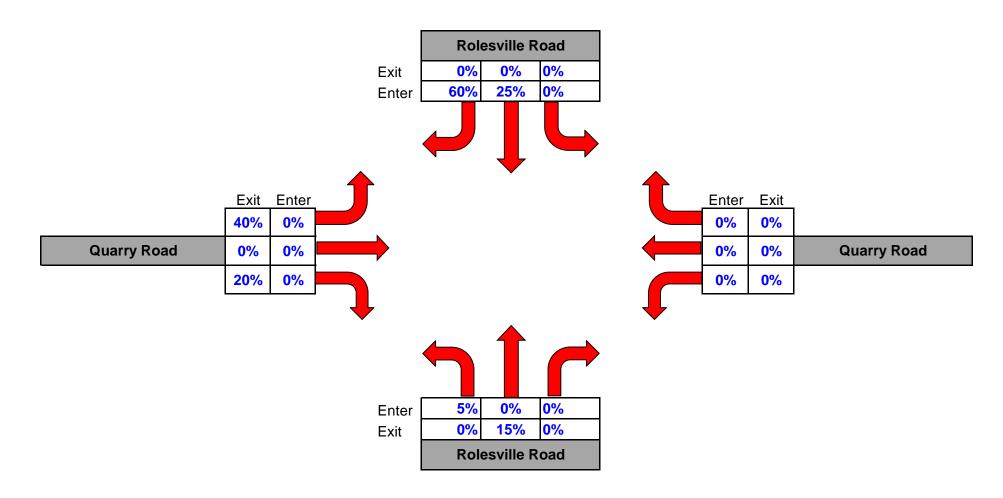
Young Street PUD: Phases 1-9, 14

Table 1 - Trip Generation: Full Build-out

Land Use	Inter	neity		Daily		Al	/I Peak Ho	ur	PN	/I Peak Ho	ur
Land 036	inter	isity	Total	In	Out	Total	ln	Out	Total	ln	Out
210 Single Family Detached Housing	251	d.u.	2,354	1,177	1,177	172	43	129	236	149	87
215 Single Family Attached Housing	483	d.u.	3,630	1,815	1,815	245	61	184	286	169	117
Subtotal			5,984	2,992	2,992	417	104	313	522	318	204

Dwelling units are those in Phases 1-9 (south of Rolesville Bypass, not including phase across from Rolesville High School)

Traffic Distribution



							Site Volur	nes						
					Mino	r Street					Major	Street		
				Quarry Road	t		Quarry Road		ı	Rolesville Road	d	F	Rolesville Road	d
				EB			WB			NB			SB	
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	ТО	07:00 AM	70	0	35	0	0	0	2	26	0	0	10	23
07:00 AM	TO	MA 00:80	126	0	63	0	0	0	5	47	0	0	26	63
08:00 AM	ТО	09:00 AM	108	0	54	0	0	0	5	40	0	0	28	69
09:00 AM	TO	10:00 AM	77	0	39	0	0	0	5	29	0	0	27	65
10:00 AM	TO	11:00 AM	57	0	29	0	0	0	6	22	0	0	30	74
11:00 AM	TO	12:00 PM	65	0	33	0	0	0	7	24	0	0	38	91
12:00 PM	ТО	01:00 PM	64	0	31	0	0	0	8	24	0	0	42	100
01:00 PM	ТО	02:00 PM	63	0	31	0	0	0	8	24	0	0	39	92
02:00 PM	TO	03:00 PM	73	0	36	0	0	0	9	27	0	0	46	110
03:00 PM	TO	04:00 PM	64	0	32	0	0	0	12	24	0	0	63	150
04:00 PM	TO	05:00 PM	72	0	36	0	0	0	15	27	0	0	75	181
05:00 PM	TO	06:00 PM	35	0	17	0	0	0	7	13	0	0	37	89
06:00 PM	TO	07:00 PM	76	0	38	0	0	0	14	28	0	0	69	166
07:00 PM	TO	08:00 PM	53	0	26	0	0	0	11	19	0	0	51	123
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	ТО	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

						Site Traffic	Right-turn V	/olumes Adj	usted					
					Mino	r Street					Major	Street		
				Quarry Road	t		Quarry Road		F	Rolesville Roa	d	F	Rolesville Road	t
				EB			WB			NB			SB	
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	TO	07:00 AM	70	0	0	0	0	0	2	26	0	0	10	0
07:00 AM	TO	MA 00:80	126	0	0	0	0	0	5	47	0	0	26	0
08:00 AM	TO	09:00 AM	108	0	0	0	0	0	5	40	0	0	28	0
09:00 AM	ТО	10:00 AM	77	0	0	0	0	0	5	29	0	0	27	0
10:00 AM	ТО	11:00 AM	57	0	0	0	0	0	6	22	0	0	30	0
11:00 AM	ТО	12:00 PM	65	0	0	0	0	0	7	24	0	0	38	0
12:00 PM	ТО	01:00 PM	64	0	0	0	0	0	8	24	0	0	42	0
01:00 PM	ТО	02:00 PM	63	0	0	0	0	0	8	24	0	0	39	0
02:00 PM	ТО	03:00 PM	73	0	0	0	0	0	9	27	0	0	46	0
03:00 PM	ТО	04:00 PM	64	0	0	0	0	0	12	24	0	0	63	0
04:00 PM	TO	05:00 PM	72	0	0	0	0	0	15	27	0	0	75	0
05:00 PM	ТО	06:00 PM	35	0	0	0	0	0	7	13	0	0	37	0
06:00 PM	ТО	07:00 PM	76	0	0	0	0	0	14	28	0	0	69	0
07:00 PM	ТО	08:00 PM	53	0	0	0	0	0	11	19	0	0	51	0
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

Build Traffic Volumes (Existing + Growth + Approved Developments + Project Site)																
					Mino	r Street			Major Street							
				Quarry Road			Quarry Road Quarry Road			1	Rolesville Roa	d	Rolesville Road			
				EB		WB			NB			SB				
			Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
06:00 AM	TO	07:00 AM	70	0	38	14	0	52	3	166	35	94	286	34		
07:00 AM	TO	08:00 AM	130	0	67	30	0	159	11	450	32	170	646	86		
08:00 AM	TO	09:00 AM	117	1	62	8	0	50	8	259	5	37	269	93		
09:00 AM	TO	10:00 AM	84	1	43	3	1	45	9	232	3	58	210	88		
10:00 AM	TO	11:00 AM	67	1	38	6	2	49	7	225	5	40	184	90		
11:00 AM	TO	12:00 PM	81	1	40	6	0	43	9	161	3	51	255	112		
12:00 PM	TO	01:00 PM	86	2	38	9	1	46	10	222	8	56	256	120		
01:00 PM	TO	02:00 PM	74	0	37	8	0	62	10	175	11	80	249	106		
02:00 PM	TO	03:00 PM	84	1	37	36	1	142	9	407	37	89	288	119		
03:00 PM	TO	04:00 PM	73	0	38	15	0	73	12	309	7	76	322	161		
04:00 PM	TO	05:00 PM	81	1	40	12	0	60	16	377	11	100	424	189		
05:00 PM	TO	06:00 PM	49	0	26	22	0	101	9	351	9	111	442	93		
06:00 PM	TO	07:00 PM	88	0	39	7	0	34	15	277	8	56	311	166		
07:00 PM	TO	08:00 PM	56	3	26	7	2	35	13	189	5	40	204	126		
08:00 PM	TO	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0		
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0		

Build Right-Turn Volumes Adjusted														
		ı			Mino	r Street	jiit-Tulli voi	uilles Aujus	leu		Major	Street		
				Quarry Road	d	Quarry Road			ı	Rolesville Roa	<u>, , , , , , , , , , , , , , , , , , , </u>	Rolesville Road		
		•		EB			WB			NB			SB	
		•	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
06:00 AM	то	07:00 AM	70	0	0	14	0	0	3	166	0	94	286	0
07:00 AM	TO	08:00 AM	130	0	0	30	0	0	11	450	0	170	646	0
08:00 AM	TO	09:00 AM	117	1	0	8	0	0	8	259	0	37	269	0
09:00 AM	ТО	10:00 AM	84	1	0	3	1	0	9	232	0	58	210	0
10:00 AM	то	11:00 AM	67	1	0	6	2	0	7	225	0	40	184	0
11:00 AM	ТО	12:00 PM	81	1	0	6	0	0	9	161	0	51	255	0
12:00 PM	ТО	01:00 PM	86	2	0	9	1	0	10	222	0	56	256	0
01:00 PM	TO	02:00 PM	74	0	0	8	0	0	10	175	0	80	249	0
02:00 PM	то	03:00 PM	84	1	0	36	1	0	9	407	0	89	288	0
03:00 PM	ТО	04:00 PM	73	0	0	15	0	0	12	309	0	76	322	0
04:00 PM	TO	05:00 PM	81	1	0	12	0	0	16	377	0	100	424	0
05:00 PM	TO	06:00 PM	49	0	0	22	0	0	9	351	0	111	442	0
06:00 PM	то	07:00 PM	88	0	0	7	0	0	15	277	0	56	311	0
07:00 PM	TO	08:00 PM	56	3	0	7	2	0	13	189	0	40	204	0
08:00 PM	ТО	09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM	TO	10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0

INTERSECTION NAME: Quarry Road at Rolesville Road COUNT DATE: 15-Apr-25

INTERSECTION CONDITION: Build: School Peaks

MAJOR STREET: Rolesville Road # OF APPROACH LANES:

MINOR STREET: Quarry Road/Quarry Road # OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N):

85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N

			HIGHEST HOUR	WARRA	NT 1, Cond	ition A	WARRA	ANT 1, Cond	ition B	WARRANT 1, Combination Warrant							
		MAJOR ST	MINOR ST							С	ONDITION .	A	C	ONDITION E	3	WARRANT 2	WARRANT 3
		BOTH	HIGHEST	MAJOR	MINOR	вотн	MAJOR	MINOR	вотн	MAJOR	MINOR	BOTH	MAJOR	MINOR	вотн		
		APPROACHES	APPROACH	STREET	STREET	MET	STREET	STREET	MET	STREET	STREET	MET	STREET	STREET	MET		
THRESHOLD VALUES	s —			500	150		750	75		400	120		600	60			
06:00 AM TO	07:00 AM																
07:00 AM TO	08:00 AM	1,277	130	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	
08:00 AM TO	09:00 AM																
09:00 AM TO	10:00 AM																
10:00 AM TO	11:00 AM																
11:00 AM TO	12:00 PM																
12:00 PM TO	01:00 PM																
01:00 PM TO	02:00 PM																
02:00 PM TO	03:00 PM	793	85	Υ			Υ	Y	Υ	Υ			Υ	Υ	Υ		
03:00 PM TO	04:00 PM																
04:00 PM TO	05:00 PM																
05:00 PM TO	06:00 PM																
06:00 PM TO	07:00 PM																
07:00 PM TO	08:00 PM																
08:00 PM TO	09:00 PM																
09:00 PM TO	10:00 PM																
						0			2			1			2	1	0
				8 HC	URS NEED	ED	8 HC	URS NEED	ED	8 HOURS OF BOTH COND. A AND COND. B NEEDED				DED	4 HRS NEEDED	1 HR NEEDED	
				NO	T SATISFIE	ED	NO.	T SATISFIE	ED	NOT SATISFIED				NOT SATISFIED	NOT SATISFIED		

WARRANT 1 -- Eight-Hour Vehicular Volume Warrant

Condition A: Minimum Vehicular Volume
Condition B: Interruption of Continuous Traffic

Combination: Combination of Condition A and Condition B

WARRANT 2 -- Four-Hour Vehicular Volume Warrant

WARRANT 3 -- Peak Hour Warrant

INTERSECTION NAME: Quarry Road at Rolesville Road COUNT DATE: 15-Apr-25

INTERSECTION CONDITION: Build: Non-School Peaks

MAJOR STREET: Rolesville Road # OF APPROACH LANES:

MINOR STREET: Quarry Road/Quarry Road #OF APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N):

85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

Y

				HIGHEST HOUR	WARRA	ANT 1, Cond	lition A	WARRA	NT 1, Cond	ition B	WARRANT 1, Combination Warrant							
			MAJOR ST	MINOR ST							С	ONDITION	A	С	ONDITION E	3	WARRANT 2	WARRANT 3
			BOTH APPROACHES	HIGHEST APPROACH	MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET		
TUDECUOL	D \/ALL	FC	APPROACHES	APPROACH	350	105	IVIEI	525	53	IVIEI	280	84	IVIEI	420	42	IVIEI		
THRESHOL			- 40		350 Y	105		525 V	53 V		280 V	84		420 Y	42 V	v		
06:00 AM	TO	07:00 AM	549	70	Y			Y	Y	Y	Y			Y	Y	Y		
07:00 AM	TO	08:00 AM					v		~		V		v		V	v	.,	
08:00 AM	TO	09:00 AM	573	118	Y	Y	Y	Y	1	Υ	ī	Y	ī	Y	T	Y	Y	
09:00 AM	TO	10:00 AM	509	85	Υ				Υ		Υ	Υ	Y	Υ	Υ	T		
10:00 AM	TO	11:00 AM	456	68	Y				Y		Y			Y	Y	Υ		
11:00 AM	TO	12:00 PM	476	82	Υ				Υ		Υ			Υ	Υ	Υ		
12:00 PM	TO	01:00 PM	544	88	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	Υ		
01:00 PM	TO	02:00 PM	514	74	Υ				Υ		Υ			Υ	Υ	Υ		
02:00 PM	TO	03:00 PM																
03:00 PM	TO	04:00 PM	719	73	Υ			Υ	Υ	Υ	Υ			Υ	Υ	Υ	Υ	
04:00 PM	TO	05:00 PM	917	82	Υ			Υ	Υ	Υ	Y			Υ	Υ	Υ	Υ	
05:00 PM	TO	06:00 PM	913	49	Υ			Υ			Υ			Υ	Υ	Υ		
06:00 PM	TO	07:00 PM	659	88	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	
07:00 PM	TO	08:00 PM	446	59	Υ				Υ		Υ			Υ	Υ	Υ		
08:00 PM	ТО	09:00 PM	0	0														
09:00 PM	TO	10:00 PM	0	0														
						•	1		•	6		•	4	•		12	4	0
				8 HOURS NEEDED 8 HOURS NEEDED 8 HOURS OF E			URS OF BC	TH CONE	. A AND CC	ND. B NEEI	DED	4 HRS NEEDED	1 HR NEEDED					
					NO.	T SATISFII	ED	NO.	T SATISFIE	ΕD	NOT SATISFIED				SATISFIED	NOT SATISFIED		

WARRANT 1 -- Eight-Hour Vehicular Volume Warrant Condition A: Minimum Vehicular Volume

Condition B : Interruption of Continuous Traffic

Combination: Combination of Condition A and Condition B

WARRANT 2 -- Four-Hour Vehicular Volume Warrant

WARRANT 3 -- Peak Hour Warrant

INTERSECTION NAME: Quarry Road at Rolesville Road COUNT DATE: 15-Apr-25

INTERSECTION CONDITION: Build: CONSOLIDATED

MAJOR STREET: Rolesville Road # OF APPROACH LANES:

MINOR STREET: Quarry Road/Quarry Road # 0F APPROACH LANES: 1

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N):

85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N):

N

				HIGHEST HOUR	WARRA	NT 1, Cond	ition A	WARRA	ANT 1, Cond	lition B	WARRANT 1, Combination Warrant							
			MAJOR ST	MINOR ST							С	ONDITION	A	C	CONDITION B		WARRANT 2	WARRANT 3
			BOTH APPROACHES	HIGHEST APPROACH	MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET	MAJOR STREET	MINOR STREET	BOTH MET		
06:00 AM	TO	07:00 AM	549	70	Υ			Υ	Υ	Υ	Υ			Υ	Υ	Υ		
07:00 AM	TO	08:00 AM	1,277	130	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	
08:00 AM	TO	09:00 AM	573	118	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	
09:00 AM	TO	10:00 AM	509	85	Υ				Υ		Υ	Υ	Υ	Υ	Υ	Υ		
10:00 AM	TO	11:00 AM	456	68	Υ				Υ		Υ			Υ	Υ	Υ		
11:00 AM	TO	12:00 PM	476	82	Υ				Υ		Υ			Υ	Υ	Υ		
12:00 PM	TO	01:00 PM	544	88	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ		
01:00 PM	TO	02:00 PM	514	74	Υ				Υ		Υ			Υ	Υ	Υ		
02:00 PM	TO	03:00 PM	793	85	Υ			Υ	Υ	Υ	Υ			Υ	Υ	Υ		
03:00 PM	TO	04:00 PM	719	73	Υ			Υ	Υ	Υ	Υ			Υ	Υ	Υ	Υ	
04:00 PM	TO	05:00 PM	917	82	Υ			Υ	Υ	Υ	Υ			Υ	Υ	Υ	Y	
05:00 PM	TO	06:00 PM	913	49	Υ			Υ			Υ			Υ	Υ	Υ		
06:00 PM	TO	07:00 PM	659	88	Υ			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	
07:00 PM	TO	08:00 PM	446	59	Υ				Υ		Υ			Υ	Υ	Υ		
08:00 PM	TO	09:00 PM	0	0														
09:00 PM	TO	10:00 PM																
	•						1			8	5				14	5	0	
						URS NEED			OURS NEED		8 HOURS OF BOTH COND. A AND COND. B NEEDED NOT SATISFIED			DED	4 HRS NEEDED SATISFIED	1 HR NEEDED NOT SATISFIED		

WARRANT 1 -- Eight-Hour Vehicular Volume Warrant

Condition A: Minimum Vehicular Volume Condition B: Interruption of Continuous Traffic

Combination: Combination of Condition A and Condition B

WARRANT 2 -- Four-Hour Vehicular Volume Warrant

WARRANT 3 -- Peak Hour Warrant

K:\RAL_TPTO_Traffic\015956012 Young Street PUD\June2025 - Signal Warrant Analysis\[Quarry@Rolesville-ResBuildSignalWarrant.xlsx]Build Warrant-TOTALS

Study Criteria Summary

County: WAKE City: All and Rural Date: 05/01/2020 to 04/30/2025 Study: ROLESVILLE

Location: SR 1003 (Young Street/Rolesville Road) at SR 2305 (Quarry Road)

Report Details

Acc				Total	Injuries		Condit	ion	Roa	ad	Trfc	Ctl
No	Crash ID	Date	Accident Type	Damage	F A B	С	R L	W	Ch	Ci	Dν	Op
1	106737730	10/21/2021 15:03	REAR END, SLOW OR STOP	\$ 1000	0 0 0	0	1 1	1	2	0	0	
Unit	1:1	Alchl/Drgs: 0	Speed: 0 MPH Dir:	N Veh N	Mnvr / Ped Actn:		1	Obj	Strk:			
Unit	2 :4	Alchl/Drgs: 0	Speed: 5 MPH Dir :	// Veh N	Mnvr / Ped Actn:		4	Obj 	Strk:			
2	107079761	09/09/2022 14:50	LEFT TURN, DIFFERENT ROADWAYS	\$ 4500	0 0 0	0	1 1	1	1	0	1	1
Unit	1:4	Alchl/Drgs: 0	Speed: 15 MPH Dir:	N Veh N	Mnvr / Ped Actn:		8	Obj	Strk:			
Unit	2 : 1	Alchl/Drgs: 0	Speed: 15 MPH Dir:	NW Veh N	Mnvr / Ped Actn:		12	Obj	Strk:			
3	107134968	11/01/2022 07:41	REAR END, SLOW OR STOP	\$ 5000	0 0 0	0	2 1	3	1	0	0	
Unit	1:2	Alchl/Drgs: 0	Speed: 35 MPH Dir:	S Veh N	Mnvr / Ped Actn:		11	Obj	Strk:			
Unit	2:4	Alchl/Drgs: 0	Speed: 0 MPH Dir:	S Veh N	Mnvr / Ped Actn:		1	Obj	Strk:			
4	107628881	02/19/2024 19:20	RIGHT TURN, DIFFERENT ROADWAYS	\$ 2100	0 0 0	0	1 5	1	1	0	1	1
Unit	1:1	Alchl/Drgs: 0	Speed: 15 MPH Dir:	Veh N	Mnvr / Ped Actn:		7	Obj	Strk:			
Unit	2:1	Alchl/Drgs: 0	Speed: 0 MPH Dir: 3	S Veh N	Mnvr / Ped Actn:		8	Obj — —	Strk:			

Acc No - Accident Number

Legend for Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather

Report Details: Rd Ch - Road Character

Rd Ci - Roadway Contributing Circumstances Trfc Ctl - Traffic Control: Dv - Device, Op - Operating

Alchl/Drgs - Alcohol Drugs Suspected

Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action

Obj Strk - Object Struck

Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	0	0.00
Total Injury Crashes	0	0.00
Property Damage Only Crashes	4	100.00
Night Crashes	1	25.00
Wet Crashes	1	25.00
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	4	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	0	0.00
Class C Crashes	0	0.00
Property Damage Only Crashes	4	100.00

Vehicle Exposure Statistics

Annual ADT = 8100 Total Vehicle Exposure = 14.79 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	27.04
Fatal Crash Rate	0.00
Non Fatal Crash Rate	0.00
Night Crash Rate	6.76
Wet Crash Rate	6.76
EPDO Rate	27.04

Miscellaneous Statistics

Severity Index =	1.00
EPDO Crash Index =	4.00
Estimated Property Damage Total = \$	12600.00

Accident Type Summary

	Number of	Percent
Accident Type	Crashes	of Total
LEFT TURN, DIFFERENT ROADWAYS	1	25.00
REAR END, SLOW OR STOP	2	50.00
RIGHT TURN, DIFFERENT ROADWAYS	1	25.00

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	0	0.00
Class C Injuries	0	0.00
Total Non-Fatal Injuries	0	0.00
Total Injuries	0	0.00

Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	0	0.00
Feb	1	25.00
Mar	0	0.00
Apr	0	0.00
May	0	0.00
Jun	0	0.00
Jul	0	0.00
Aug	0	0.00
Sep	1	25.00
Oct	1	25.00
Nov	1	25.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	1	25.00
Tue	1	25.00
Wed	0	0.00
Thu	1	25.00
Fri	1	25.00
Sat	0	0.00
Sun	0	0.00

Hourly Summary

	Number of	Percent
Hour	Crashes	of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	1	25.00
0800-0859	0	0.00
0900-0959	0	0.00
1000-1059	0	0.00
1100-1159	0	0.00
1200-1259	0	0.00
1300-1359	0	0.00
1400-1459	1	25.00
1500-1559	1	25.00
1600-1659	0	0.00
1700-1759	0	0.00
1800-1859	0	0.00
1900-1959	1	25.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	2	1	0	3
Dark	1	0	0	1
Other	0	0	0	0
Total	3	1	0	4

Vehicle Type Summary

	Number	Percent
Vehicle Type	Involved	of Total
PASSENGER CAR	4	50.00
PICKUP	1	12.50
SPORT UTILITY	3	37.50

Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2020	0	0	0	0
2021	1	0	0	1
2022	2	0	0	2
2023	0	0	0	0
2024	1	0	0	1
2025	0	0	0	0
Total	4	0	0	4

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2020	0	0
2021	0	0
2022	0	0
2023	0	0
2024	0	0
2025	0	0
Total	0	0

Miscellaneous Totals

Year	Р	roperty Damage	EPDO Index
2020	\$	0	0.00
2021	\$	1000	1.00
2022	\$	9500	2.00
2023	\$	0	0.00
2024	\$	2100	1.00
2025	\$	0	0.00
Total	\$	12600	4.00

Type of Accident Totals

		Run Off Road &							
Year	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other		
2020	0	0	0	0	0	0	0		
2021	0	0	1	0	0	0	0		

		Run Off Road &						
Year	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other	
2022	1	0	1	0	0	0	0	
2023	0	0	0	0	0	0	0	
2024	0	1	0	0	0	0	0	
2025	0	0	0	0	0	0	0	
Total	1	1	2	0	0	0	0	

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
ROLESVILLE				76.8	8.4	8100	

Request Date Courier Service Phone No. Ext. Fax No.

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
WAKE	92	5	All and Rural		150	05/01/2020	04/30/2025	5.00

Location Text Requestor

SR 1003 (Young Street/Rolesville Road) at SR 2305 (Quarry Road)

Included Accidents

107134968

107079761

Fiche Roads

Code
40001003
40001945
50033894
50026368
50009137
50001307
40002305
50025049

Intersection Road Combinations

Name	Code	Code	Name
SR 1003	40001003	40002305	SR 2305
SR 1003	40001003	50025049	QUARRY
SR 1945	40001945	40002305	SR 2305
SR 1945	40001945	50025049	QUARRY
AVERETTE	50001307	40002305	SR 2305
AVERETTE	50001307	50025049	QUARRY
EAGLE ROCK	50009137	40002305	SR 2305
EAGLE ROCK	50009137	50025049	QUARRY
ROLESVILLE	50026368	40002305	SR 2305
ROLESVILLE	50026368	50025049	QUARRY

Intersection Road Combinations

Name	Code	Code	Name
YOUNG	50033894	40002305	SR 2305
YOUNG	50033894	50025049	QUARRY