

Planning Board Meeting October 27, 2025 7:00 p.m.

AGENDA

A. Call to Order

- 1. Pledge of Allegiance
- 2. Invocation
- 3. Approval of September 22, 2025 Meeting Minutes

B. Regular Agenda

- 1. TA-25-08 Text Amendment to LDO Section 5.1. Hospital Use (Applicant-initiated)
- 2. REZ-25-03 Rezoning Map Amendment for 625 Averette Road
- 3. REZ-24-05 Rezoning Map Amendment for Atticus Woods Wait Avenue
- 4. TA-25-12 Text Amendment to LDO Section 3.4.1./Table 3.4.1. Town Center District, Use of Development Agreement (Town-initiated)

C. Communications

- 1. Planning Director's Report
 - a. December Meeting Date
 - b. GovWell Online Platform Update
 - c. Update Comprehensive Plan/Housing Plan
- 2. Town Attorney's Report
- 3. Other Business
- 4. Adjournment



Planning Board Meeting September 22, 2025 - 7:00 PM 502 Southtown Circle, Rolesville, NC 27571

MINUTES

PRESENT: Mike Moss, Chair

Derek Versteegen, Board Member
Jim Schwartz, Board Member
Erin Catlett, Deputy Town Attorney

Michael Elabarger, Interim Planning Director

Tanner Hayslette, Planner I

Donnie Lawrence, Vice-Chair Frank Pearce, Board Member

April Sneed, Mayor Pro Tempore/Liaison

Eric Marsh, Town Manager Michele Raby, Planner II

ABSENT: Tisha Lowe, Board Member

A. CALL TO ORDER

Chair Moss called the meeting to order at 7:00 p.m.

A.1. PLEDGE OF ALLEGIANCE

The Board collectively recited the Pledge of Allegiance.

A.2. INVOCATION

Chair Moss delivered the invocation.

A.4. Approval of August 25, 2025, meeting minutes.

Moved by Vice-Chair Lawrence and Seconded by Board Member Pearce. The motion to approve the minutes of August 25, 2025, was carried with a 5-0 vote, 5 voted aye (Moss, Lawrence, Pearce, Schwartz, Versteegen), 0 voted nay, 1 absent (Lowe).

B. REGULAR AGENDA

B.1. Housing Plan Presentation

Mr. Elabarger reintroduced 10-Year Affordable Housing Plan and communicated the consultant's responses to the Board's previous comments. Mr. Marsh proceeded to address the Board's initial concerns and explained how the Plan intends to be amended.

The Board collectively expressed their thoughts on the Plan including how their input will be incorporated, the addition of land acquisition and land trusts into the Plan, and when the Plan will be updated.

Moved by Vice-Chair Lawrence and Seconded by Board Member Pearce. The motion to amend the Planning Board's past motion to recommend Approval with the July 28th, 2025, Planning Board questions and concerns and the consultant's feedback was carried by a 5-0 vote, 5 voted aye (Moss, Lawrence, Pearce, Schwartz, Versteegen), 0 voted nay, 1 absent (Lowe).

A motion to recommend Approval to the Board of Commissioners was made by Vice-Chair Lawrence and Seconded by Board Member Pearce. The motion was carried by a 5-0 vote, 5 voted aye (Moss, Lawrence, Pearce, Schwartz, Versteegen), 0 voted nay, 1 absent (Lowe).

B.2. REZ-25-05 - Scarboro Village

Mr. Elabarger introduced the proposed rezoning request by describing the Applicant's request of rezoning 15.61 acres from to Residential High Conditional Zoning District (RH-CZ) and General Commercial Conditional Zoning District (GC-CZ).

The Applicant proceeded to describe the reasons and purpose of their request.

The Board collectively asked about traffic as well as how the proposed collector road will tie into existing Perry Street and the future Town Campus.

Moved by Board Member Pearce and Seconded by Board Member Schwartz. The motion to recommend Approval with a condition of timing placed upon the construction of the collector street was carried by a 5-0 vote, 5 voted aye (Moss, Lawrence, Pearce, Schwartz, Versteegen), 0 voted nay, 1 absent (Lowe).

A motion to recommend Approval to the Board of Commissioners with a condition of timing placed upon the construction of the collector street was made by Board Member Pearce and Seconded by Board Member Schwartz. The motion was carried by a 5-0 vote, 5 voted aye (Moss, Lawrence, Pearce, Schwartz, Versteegen), 0 voted nay, 1 absent (Lowe).

B.3. LDO Text Amendment Update

Mr. Elabarger informed the Board that there are several Text Amendments in formulation, including one regarding the Town's Sign Ordinance, one to create a new use of "Self-Storage, Enclosed" and increase the use of a Development Agreement within the NC, Neighborhood Center, Zoning District, and the Zoning and Principal Uses in the Main Street Corridor.

C. COMMUNICATIONS

C.1. Planning Director's Report

a. GovWell online platform

Mr. Elabarger informed the Board that GovWell will be fully implemented within a week for the purpose of processing all zoning permits and development reviews. GovWell also has an Al tool that can answer an applicant's questions.

b. TRC recent activity volumes

Mr. Elabarger informed the Board that from January to August the average number of TRC applications submitted were 15 applications per month.

c. Building Permit recent activity volumes

Mr. Elabarger informed the Board that the Planning Department has received an increased volume of building permit activity, many of which are from The Point subdivision and Kalas Falls Phase 1. Several stand alone commercial sites are also under development.

Ms. Catlett had nothing to report.	
Other Business	
None currently.	
Adjournment	
	Chair Lawrence and Seconded by Board Member Schwartz voted aye (Moss, Lawrence, Pearce, Schwartz, Versteegen) ng was adjourned at 8:59 p.m.
Moss, Planning Board Chair	Tanner Hayslette, Planner I
	Other Business None currently. Adjournment A motion to adjourn was made by Vice-O The motion was carried by a 5-0 vote, 5 v 0 voted nay, 1 absent (Lowe). The meeting

C.2.

Town Attorney's Report



Memo

To: Planning Board

From: Michael Elabarger, Interim Planning Director & Meredith Gruber, Senior Planner

Date: Meeting Held October 27, 2025

Re: TA-25-08 Land Development Ordinance (LDO) Text Amendments to Table 5.1.

Permitted Principal Use Table and Section 5.1.5.C. for Hospital Use

Background

Land Development Ordinance (LDO) Text Amendment Application TA-25-08 was submitted by Toby Coleman of Smith Anderson in September 2025. The application proposes modifying LDO Table 5.1. Permitted Principal Uses as well as adding a new subsection to LDO Section 5.1.5.C. to eliminate the Special Use Permit (SUP) process if a Hospital use is permitted by a condition of a conditional rezoning application.

The LDO currently permits a Hospital use by Special Use Permit (SUP). The purpose of an SUP is to allow uses that may be appropriate in a zoning district but require individual review of their location, design, and operation to ensure they are compatible with surrounding properties and protect public health, safety, and welfare.

Proposed Text Amendment

The proposed text for TA-25-08 is shown in blue and underlined.

Table 5.1. Permitted Principal Use Table

	RL	RM	RH	МН	GC	СН	OP	GI	BT	TC	AC	NC	
OFFICE AND MEDICAL													
Hospital	-	-	-	-	<u>P/</u> S	<u>P/</u> S	<u>P/</u> S	-	-	-	-	-	5.1.5.C.

5.1.5. Office and Medical Principal Uses

C. Hospital

5. A Hospital use may be permitted by right as a condition of a conditional zoning district.

Comprehensive Plan Consistency

The Rolesville 2050 Comprehensive Plan Focus Areas include looking at challenges and opportunities as they relate to:

- Transportation,
- Economic Development,
- Land Use & Housing, and
- Parks, Recreation, & Community Character.

A text amendment facilitating development of a Hospital use may support the Economic Development Focus Area by adding to the Town's portfolio of nonresidential development. The Comprehensive Plan notes the importance of achieving a balanced tax base of residential and nonresidential land use.

Proposed Motion

Motion to Recommend (*approval or denial*) of TA-25-08 Hospital Use, to the Town Board of Commissioners, because it is (*consistent or inconsistent*) with the Comprehensive Plan. (*Please include examples of consistency or inconsistency*.)

Attachment

• Text Amendment Application TA-25-08

Case No. <u>TA-25-08</u>
Date <u>rcvd 9-2-2025</u>



Text Amendment Application

Contact	t Information		
Name	Toby Coleman, Smith Anderson		
Address	150 Fayetteville St., Ste. 2300	City/State/Zip Raleigh, NC 2	7601
Phone _	919-821-6778	Emailtcoleman@smithlaw.com	n
Amend	ment Information		
This petit	ion is to amend the Unified Development Ordi	nance Section(s)Table 5.1 and	d Section 5.1.5.C of the LDO
to allow _	the Board of Commissioners to permit Hospital use	s as a permitted use in conditional z	coning districts.
as a	□ permitted use	□ conditional use	□ special use
in the zor	ning district.		
Applica	nt Signature		
I hereby o	certify that the information contained herein is	true and complete. I understa	and that if any item is
found to b	be otherwise after an evidentiary hearing before	re the Town Board of Commis	sioners, the Board's
action ma	ay be invalidated.		- 1 1
Signature	189 6		Date
	6		
	F NORTH CAROLINA		
COUNTY	of Walce	V.	
I, a Notar	y Public, do hereby certify that Toby C	leman	
personally	y appeared before me this day and acknowled		foregoing instrument. This
the	210	day of September	20 <u> 35</u> .
Му сотт	ission expires 8/12/2081		
	Colina A. Kowihar		
Signature	COUNTY FT SPECIES	Seal	
		CELESTE A. KELLIHE	R
		NOTARY PUBLIC	i
		WAKE COUNTY, N.C.	

Description of Proposed Text Change Amendment

The applicant proposed that the LDO be changed to permit the Board of Commissioners to approve a hospital use as part of a conditional zoning district. The proposed text change amendment is as follows, with proposed changes in red:

A. The listing for Hospital use in the Office and Medical Section of Table 5.1, Permitted Use Table is modified as follows:

	RL	RM	RH	MH	GC	СН	OP	GI	BT	TC	AC	NC	
OFFICE AND MEDICAL													
Hospital	-	-	-	-	<u>P/</u> S	<u>P/</u> S	<u>P/</u> S	-	-	-	-	-	5.1.5.C

- B. Add the following new subsection to Section 5.1.5.C of the LDO:
 - 5. A Hospital use may be permitted by right as a condition of a conditional zoning district.

Justification

The LDO currently provides that a hospital use is only allowed via a special use permit. When a potential hospital user needs to rezone property for a hospital use, the LDO requires that user to obtain rezoning approval for the hospital use from the Board of Commissioners and then go to the Town Board of Adjustment for a special use permit. Requiring rezoning applicants to obtain functionally redundant permits from separate boards is unnecessarily cumbersome. Permitting the Board of Commissioners to permit hospital uses by right as part of a site-specific conditional rezoning streamlines the process while ensuring that the project is fully vetted and reviewed prior to approval, which presumably is the intent of the requirement that hospital uses obtain a special use permit.



Memo

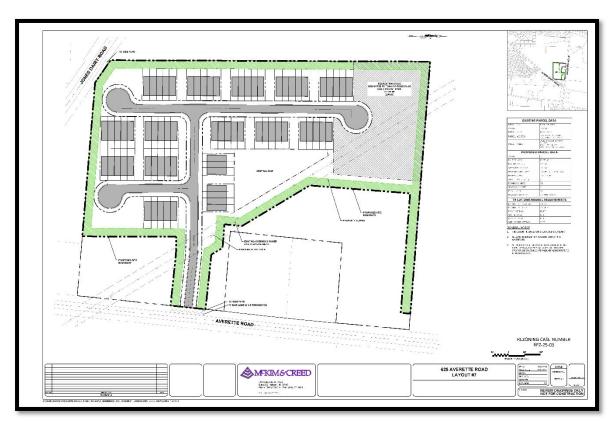
To: Town of Rolesville Planning Board

From: Michael Elabarger, Interim Planning Director & Meredith Gruber, Senior Planner

Date: Meeting Held October 27, 2025 Re: REZ-25-03 625 Averette Road

Rezoning Application & Site Data

The Town of Rolesville Planning Department received a Rezoning application in June 2025 for property located at 625 Averette Road to change the zoning from Residential & Planned Unit Development (R&PUD) to Residential High Conditional Zoning District (RH-CZ). The applicant has included a Concept Site Plan as a condition of the rezoning request with a statement that the development of the property shall be in general conformance with the plan.



625 Averette Road Concept Site Plan (North points to the right.)

Key information from the rezoning application is in the Site Data Table below:

	Site Data Table				
Case Number and Name	REZ-25-03 – 625 Averette Road				
Address(es)	625 Averette Road (portion of)				
Owner	Wake Forest Baptist Church				
Applicant	David Peoples, Azure Development LLC				
Area	12.283 Acres				
PIN(s)	1769085810 (portion of)				
Current Zoning	Residential & Planned Unit Development (R&PUD)				
Proposed Zoning	Residential High Conditional Zoning District (RH-CZ)				
Associated Previous Case Number(s)	MA-07-07 – Averette Farms				
Current Use	Vacant				
Proposed Use	Single Family Attached Housing				

Proposed Conditions of Approval

Following is a summary of the Applicant's Proposed Conditions of Approval:

- Subject property shall be developed in accordance with the Concept Site Plan;
- Maximum residential density shall not exceed 5.9 units per acre;
- Parkland dedication of a minimum of two (2) acres.

Applicant Justification

The Applicant provided a Justification Statement for their rezoning request; it is included as Attachment 3. The Justification Statement notes the proposed development is consistent with the Comprehensive Plan and fits well into the nearby area.

Neighborhood Meeting

The applicant held a neighborhood meeting at the Rolesville Community Center on October 15, 2025. A neighborhood meeting report is included as Attachment 6.

Comprehensive Plan

Land Use

The Rolesville 2050 Comprehensive Plan's Future Land Use Map identifies the subject property as Mixed-Residential Community. These parcels are largely single family subdivisions with limited nonresidential development at key intersections. The intent of this district is to provide unique and diverse residential opportunities and amenities through the Town while encouraging interconnectivity via multi-modal connections.

Community Transportation Plan

The Town of Rolesville's Community Transportation Plan (CTP, adopted 2021) includes recommendations for Thoroughfares, Collectors, and intersections.

Thoroughfare Recommendations

- Averette Road: 4-lane divided (narrow raised median) with curb & gutter, bike lanes, and sidewalks. Such cross-section entails an ultimate right-of-way width of 110 feet; existing Right-of-way width is 60 Feet, hence ½ of the missing amount 25' of 50' would be required at the time of Preliminary Subdivision Plat.
- <u>Jones Dairy Road</u>: 4-lane divided (narrow raised median) with curb & gutter and sidewalks. Such cross-section entails an ultimate right-of-way width of 110 feet; existing Right-of-way width is 60 Feet, hence ½ of the missing amount 25' of 50' would be required at the time of Preliminary Subdivision Plat.

Collector Recommendations

None

Intersection Recommendations

 The nearby intersection of Jones Dairy Road and Averette Road is identified for realignment in the CTP.

Greenway and Bike Plans

As per the 2022 Greenway and Bike Plans, proposed pedestrian routes are shown in the following location:

- Bike lanes and sidepaths are required along Averette Road.
- A sidepath is required along Jones Dairy Road.

Consistency

The Applicant's rezoning request is **consistent** with the Town of Rolesville's Comprehensive Plan for the following reasons:

- Single family attached housing is consistent with the Mixed-Residential Community District.
- CTP thoroughfare requirements for Averette Road and Jones Dairy Road will be addressed at the time of Preliminary Subdivision Plat.
- Greenway and Bike Plan requirements are shown on the REZ-25-03 Concept Site Plan.

Traffic

Traffic Impact Analysis

A Traffic Impact Analysis (TIA) report was not required due to peak hour and daily trips falling below the LDO's threshold.

TIA Summary - Trip Generation Letter	Entering	Exiting	Total
AM Peak (7-9 am)	8	24	32
PM Peak (4-6 pm)	23	16	39
Weekday Daily Trips		498	•

Development Review

The Technical Review Committee (TRC) reviewed two full submittals followed by two partial submittals of the Rezoning application and attachments, with nearly all comments being resolved. One noteworthy comment was about LDO Section 4.2. Watershed Overlay; most of the subject property is in the Little River Water Supply and Critical Watershed. The applicant will seek to regrade the property out of the Watershed.

Staff Recommendation

Based on consistency with Rolesville's Comprehensive Plan, staff recommends approval of REZ-25-03 – 625 Averette Road. In addition, the proposed density of 5.9 units per acre is in compliance with the Residential High (RH) zoning district in the LDO; the maximum allowed density for single family attached housing is 9 units per acre.

Proposed Motion

Motion to recommend to the Town Board of Commissioners (*approval or denial*) of rezoning request REZ-25-03, 625 Averette Road, based on (*consistency or inconsistency*) with Rolesville's Comprehensive Plan. (*Please include examples of consistency or inconsistency*.)

Attachments

1	Application
2	Survey and Legal Description of Rezoning Boundary
3	Justification Statement
4	Proposed Conditions of Approval
5	Concept Site Plan
6	Neighborhood Meeting Report
7	Trip Generation Letter



Zoning Map (Rezoning) Application

Town of Rolesville Planning Department | PO Box 250 | Rolesville, NC 27571 | 919-554-6517 | planning@rolesvillenc.gov
Planning Department Home Page: Official Town Webpage

Complete one form for each parcel identification number.

The state of the s	
APPLICATION INFORMATION:	
Site Address: 625 Averette Rd	Site Area (in acres): 16.77
Rezoning Type: General Conditional	Total area requested to be rezoned (in acres): //a . 77
Voluntary Annexation Application Submitted: Yes No ANX-	Current Location: ☐County Limits ☑ETJ ☐Town Limits
Existing Zoning District: R&PUD	Proposed Zoning District(s): RH
PIN: 1769086810	Associated Previous Case(s):
Ситтепt Use(s): Vacant	Proposed Use(s): Residential Attached and Detached
APPLICATION REQUIREMENTS:	
Complete Application and checklist.	✓ Completed Property Owner's Consent Form – 1 per Owner- See page 5.
For a Conditional District per LDO Section 3.3. The submittal shall include a separate document listing the written Conditions of Approval, which may consist of exhibits, plans, maps, and other relevant materials. Provide a Date and space for revision Dates; this document will always be referenced, including its Date.	A Concept (nee site) Plan * may be submitted, considered, and approved as part of a Conditional District request; it shall be incorporated into a written condition for "general compliance" upon future Development Application reviews and approvals. Provide a Date and space for revision Dates. See the Next page for details.
✓ Traffic Impact Analysis (TIA), ITE Trip Generation Letter, or a Letter/Email from Planning staff confirming that a TIA is not required. (LDO Section 8.C.5)	* The Activity Center (AC) and Neighborhood Commercial (NC) zoning districts require the submission of a Concept Plan (also known as a site plan) as per LDO Sections 3.4.1 and 3.4.2.
Legal Metes & Bounds	Deeds with Book of Map & Page Number
Sketch/Pre-submittal meeting held on:	Meeting Notes submitted
Application Fee: An invoice for the application fee will review.	be issued during the completeness check or after the application
Financially Responsible Party (*REQUIRED: Who w	ill pay invoices related to this application?)
Name: David Peoples	Company Name: Azure Development LLC
Title: Manager	Signature:
Mailing Address 4214 Batiste Rd	city/State/Zip_Raleigh/NC/27613
Phone 336-399-2133	Email david@azuredevnc.com
是这些自己的生活,这一种是一种一种	

Property Owner (First name on Deed)	
Name:	Signature:
Address:	Email:
Property Owner (Second name on Deed or Spou	use information required if applicable)
Name:	Signature:
Address:	Email:
Preferred Point of Contact: Owner Agen	Applicant Constitute Continue Continue
	Applicant Architect Attorney Engineer
Please add contact information if applicable.	
Agent Name:	Title/ Firm
Phone:	Email:
Phone: Applicant Name: David Peoples	Email: Manager/Azure Development LLC
Agent Name:	Email:
Phone:	Email:Manager/Azure Development LLC Email:david@azuredevnc.com
Phone:	Email:Manager/Azure Development LLC Email:david@azuredevnc.com Title/ Firm
Phone:David Peoples	Email:Manager/Azure Development LLC Email:david@azuredevnc.com Title/ Firm Email:
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Phone:	Email: Title/ Firm Manager/Azure Development LLC Email: david@azuredevnc.com Title/ Firm Email: Title/ Firm Email: Title/ Firm Senior Engineer/McKim&Creed Email: JEakins@mckimcreed.com

Concept Plan Minimum Requirements (Required for AC or NC Districts, Optional for Conditional Districts):
A vicinity map of the site, illustrating the boundaries of the site, the north arrow, and the scale reference Site Data Table: Typical Property Information (Property Legal Description, Acreage/Square Footage, etc.) * If Commercial, include the square footage of the proposed building, use, or development, the approximate proposed Impervious Coverage, approximate parking calculations, and if it is a multi-family development, the number of Dwelling units, etc. * If Residential - Number of proposed development lots (including by type of lot and use), density (proposed and permitted), and approximate parking calculations.
* Calculations for open space are required and provided. Existing and Proposed Use and Zoning District of the property and adjacent properties A drawing depicting the details provided above as a general concept of the development, including such details as – Residential - Lot layout and a "typical" lot size/dimension exhibit.
 Non-res/multifamily - Proposed building layout and/or general footprint locations. Vehicular circulation / street layout including existing/proposed right-of-way widths (public, alley, private); Pedestrian circulation, including general greenways, side paths, and bike lane locations. General Utility access and points of connection/extensions,
Buffer Spaces (street and perimeter), open communal spaces, stormwater control measures, etc. Name, address, and contact information for the property owner and/or Applicant Name/information of the professional who created the Concept Plan
Any other information requested by the Planning Department staff

Rezoning Justification Statement - Complete the attached form

Provide a separate document titled "Statement of Justification" (including Date) that addresses each/all the following:

- 1. Is the application consistent with the Comprehensive Plan, Community Transportation Plan, Bicycle and Greenway Plans, and any other adopted Town policy plans?
- 2. Does the application conflict with any provision of the LDO or the Town Code of Ordinances?
- 3. Does the application correct any errors in the existing zoning present when it was adopted?
- 4. Does the rezoning allow uses compatible with existing and permitted uses on surrounding land/properties?
- 5. Would the application ensure efficient development within the Town, including the capacity and safety of the street network, public facilities, and other similar considerations?
- 6. Would the application result in a logical and orderly development pattern?
- 7. Would the application result in adverse impacts on water, air, noise, stormwater management, wildlife, vegetation, wetlands, and the natural functioning of the environment?
- 8. If a <u>Conditional district</u> providing proposed Conditions of Approval, do they address and mitigate the impacts reasonably expected to be generated by the development or use of the property, can they reasonably be implemented, and can they be enforced for the subject property, and will they result in no more significant impact on adjacent properties or the community at large than would be expected to occur by the permitted uses and the minimum development standards of the corresponding General zoning district.

Neighborhood Meeting- (Complete the attached form)

Town Board at Legislative Hearing)

Per LDO Section 2.2, Appendix A / 2.3.D., and 2.3.F Rezoning (Zoning Map Amendment); and TA-23-01, all applicants shall conduct a neighborhood meeting prior to any public hearing or review by the Planning Board and Board of Commissioners. This meeting will enable the applicant to explain the proposed request and address the neighborhood's concerns. A summary of the meeting in the form of meeting notes or minutes, along with a list and contact information (as shown below) for all attendees and a list of property owners and Homeowners' Associations within 500 feet of the subject property as well as all property owners within 200 feet of any roadway improvements and/or utility improvements associated with an application (per Wake County tax records at the time of filing this application) as they are required to receive a Notification Letter regarding the Legislative Hearing before the Town Board of Commissioners (when scheduled).

Conditions of Approval – Provide a separate list of voluntary conditions proposed by the applicant to be signed upon presentation to the Town Board at the Legislative Hearing (if applicable).

Please visit the Submittal Process webpage for information on submission timing. Submission Packet Document Review- Please be sure to include the following: Required documents to be submitted with the Application ✓ Complete Application Legal Metes and Bounds Concept Plan (if applicable) Property Owner Consent form(s) Conditional Zoning Proposed List (if applicable) Rezoning Boundary Survey with Total Area Requested and Zoning Districts labeled Deeds Rezoning Justification Statement Financial Responsible Party information Sketch Plan meeting notes (if applicable) Required documents for Planning Board and/or Town Board meeting Neighborhood Meeting Information PowerPoint slides (or other digital media) to include in the Planning Board and Town Board Agenda Packets. Signed Proposed Conditions (for approval by the



Town of Rolesville Planning Department Property Owner Consent & Authorization Form planning@rolesvillenc.gov

Consent is required from the property owner(s) or legal representative. Unless otherwise specified, consent is valid for one year from the date of application.

Please provide a separate form for each parcel number. For properties with multiple owners, each owner must complete an individual form. (A husband and wife may both sign and submit one form.)

Project/ Subdivision Name: 625 Averette	
Site Address: 625 Averette Rd. Wake Forest NC, 275	587
Parcel ID: 1769086810 Deed Refere	D.B. 17840, Page 738
Property Owner *This field is required. 1) Name: Water Forth Bestin May	Destroy . It I . with Manufact
(Type or print clearly.) Mailing Address: 1/8 E So. 4 Av. Phone: 9/9-54-54-5/141	City/State/Zip: Wate Foren M 2018)
2) Name:(Type or print clearly.) (spouse if applicable)	Signature:
Mailing Address:	City/State/Zip:
Phone:	Email:
Company Name:	Title:
Applicant P.O.A. Agent Legal Rep Check all that apply. 1) Name: David Peoples	Signature:
(Type or print clearly) Mailing Address: 4214 Batiste Rd	City/State/Zip: Raleigh/NC/27613
Phone: 336-399-2133	Email: david@azuredevnc.com
Company Name: Azure Development LLC	Title: Manager

By signing the above, I swear and affirm that I am the owner(s) or authorized representative as shown in the records of Wake County, North

Carolina, which is the subject of this application. I further affirm that I am fully aware of the Town's application, fees, and procedural requirements and consent to this Application. I authorize the person(s) listed below to submit this Application and serve as the representative and point of contact for this Application.



Town of Rolesville Planning Department Property Owner Consent & Authorization Form planning@rolesvillenc.gov

Neighborhood Meeting Requirement Checklist:

1.	 a). Mail the required property notification letter to all property owners and Homeowners' Associations within 500 feet of the subject property, as well as all property owners within 200 feet of any roadway improvements and/or utility improvements associated with an application (per Wake County tax records at the time of filing this application). b) Mail a copy of the letter to the Town of Rolesville Planning Department, PO Box 250, Rolesville, NC
2.	27571, to ensure compliance with LDO Appendix A- Handbook Section 2.3.D. Conduct the required meeting at a location within the Town of Rolesville.
3.	Mail or email at least ten (10) days before the Planning Board meeting a copy of the presentation, property owner with addresses notification list, list of attendees, meeting minutes, and any notes or questions from the meeting.

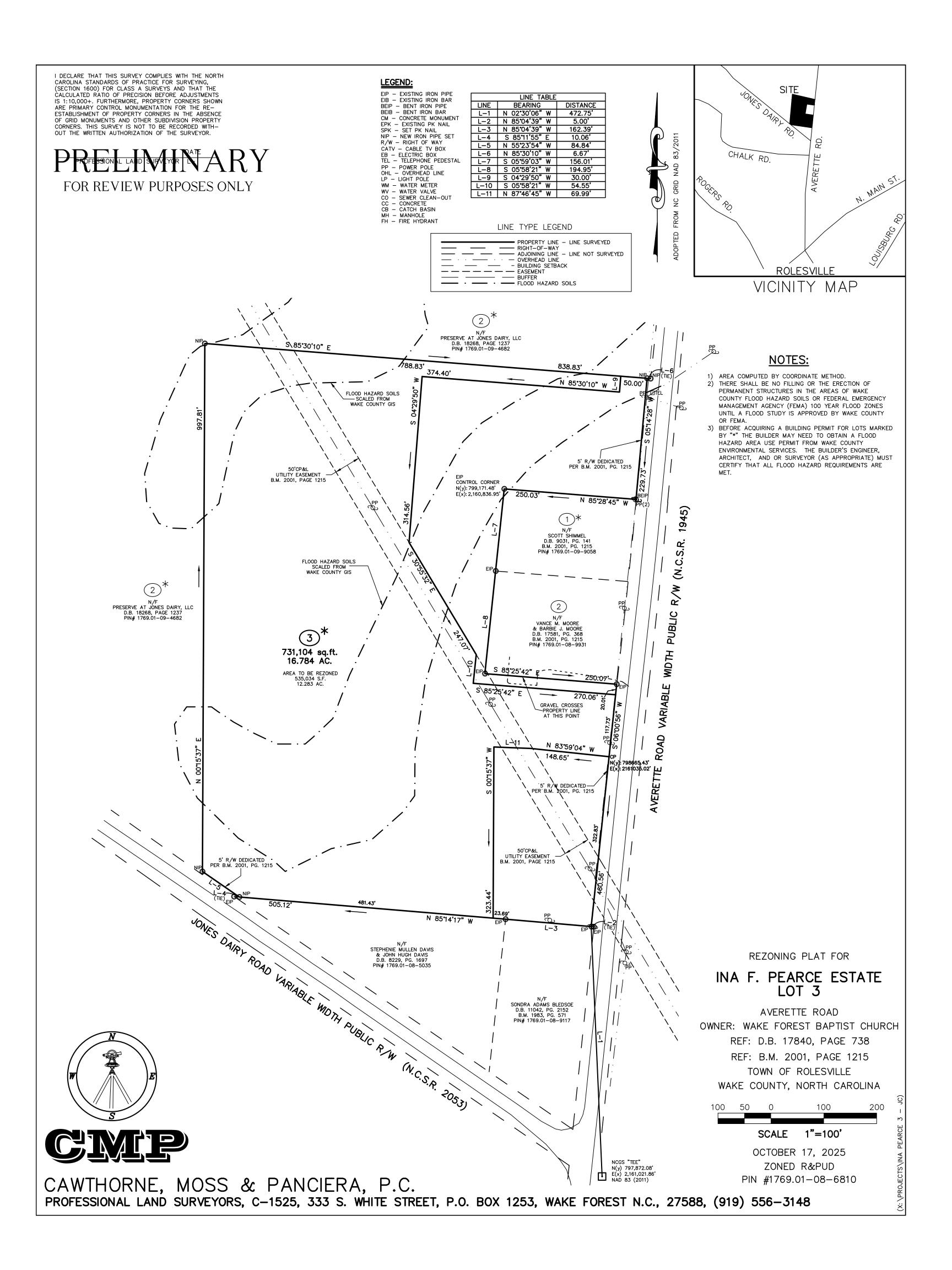
Property Owner Notification List Example:

WAKE COUNTY PIN	NAME	MAILING ADDRESS	ZIP CODE



Town of Rolesville Planning Department Property Owner Consent & Authorization Form planning@rolesvillenc.gov

Voluntary List of Proposed Conditions: (Please use additional pages as needed)			
1. See separate doc submitted			
2			
3			
4			
5			
6			
7			
8			
9			
10			
Property Owner (First name on Deed)			
Printed Name: Signature:			
*A signature is required before submitting this list to the Town Board for approval at the Legislative Hearing.			
Property Owner (Second name on Deed)			
Printed Name: Signature: Signature: *A signature is required before submitting this list to the Town Board for approval at the Legislative Hearing.			
A signature is required before submitting this list to the Town Board for approval at the Legislative Hearing.			



ANNEXED AREA LEGAL DESCRIPTION:

BEGINNING AT A POINT ON THE WESTERN RIGHT OF WAY OF AVERETTE ROAD, SAID POINT HAVING NAD 83' (2011) NC GRID COORDINATES OF N(y):798,665.43' E(x):2,161,035.02'; THENCE, LEAVING SAID RIGHT OF WAY, N 83°59'04" W A DISTANCE OF 148.65' TO A POINT; THENCE N 87°46'45" W A DISTANCE OF 69.99' TO A POINT; THENCE S 00°15'37" W A DISTANCE OF 323.44' TO A POINT: THENCE N 85°14'17" W A DISTANCE OF 481.43' TO A NEW IRON PIPE, SAID NEW IRON PIPE BEING ON THE NORTHERN RIGHT OF WAY OF JONES DAIRY ROAD; THENCE, FOLLOWING SAID RIGHT OF WAY, N 55°23'54" W A DISTANCE OF 84.84' TO A NEW IRON PIPE; THENCE, LEAVING SAID RIGHT OF WAY, N 00°15'37" E A DISTANCE OF 997.81' TO A NEW IRON PIPE; THENCE S 85°30'10"E A DISTANCE OF 788.83' TO A POINT; THENCE S 04°29'50" W A DISTANCE OF 30.00' TO A POINT; THENCE N 85°30'10" W A DISTANCE OF 374.40' TO A POINT; THENCE S 04°29'50" W A DISTANCE OF 314.56' TO A POINT; THENCE S 30°55'32" E A DISTANCE OF 247.07' TO A POINT; THENCE S 05°58'21" W A DISTANCE OF 54.55' TO A POINT; THENCE S 85°25'42" E A DISTANCE OF 270.06' TO A POINT, SAID POINT BEING ON THE WESTERN RIGHT OF WAY OF AVERETTE ROAD; THENCE, FOLLOWING SAID RIGHT OF WAY, S 06°00'56" W A DISTANCE OF 117.73' TO A POINT; WHICH IS THE POINT OF BEGINNING, CONTAINING AN AREA OF 535,034 SQUARE FEET, 12.283 ACRES.

Statement Of Justification 625 Averette Rd. REZ-25-03

09/11/2025

To Whom It May Concern:

We are writing to justify the rezoning submission for 625 Averette Road from R&PUD to RH under the LDO. We believe that the proposed zoning coupled with the conditions deliver a proper balance of residential homes and recreation space having an overall density of 5.9 du/acre well within a medium density range of 3-6du/acre. The neighboring developments have both attached and detached residential units and their densities exceed our proposed density. We believe the proposed zoning and sketch plan are either consistent or will be consistent with the Comprehensive Plan, Community Transportation Plan, Bicycle and Greenway Plans and Adopted Town Policy Plans after the Site Plan and Construction Drawing process are completed. To our knowledge the application doesn't conflict with any provision of the LDO or the Town Code of Ordinances. This application, we believe, does address a current issue with its R&PUD entitlements. Currently the site is zoned R&PUD with RM use and under its vested rights can only have development containing commercial elements consistent with SUP 07-05. Part of this parcel is in the Non-Critical Little River Watershed and as such no commercial development can occur. Commercial traffic and development would produce a far greater impact and level of traffic and congestion that our proposed concept. We believe that through rezoning to medium density under RH Zoning, consistent with earlier future use maps, we will bring desirable homes to the area. Under the current zoning the property undevelopable as commercial and as such needs appropriate zoning. The parcel is in an easily accessible area and ensures efficient development within the Town including public facilities and other similar considerations. As such we believe that the proposed development would result in a logical and orderly development pattern. Our proposed design isn't anticipated to have any adverse effects on water, air, noise, stormwater, wildlife, vegetation, wetlands, and the natural functioning of the environment. The proposed conditions to zoning do not jeopardize any of the statements in this Justification Letter. We believe that the conditions provided deliver the needed flexibility given the uncertainty of engineering.

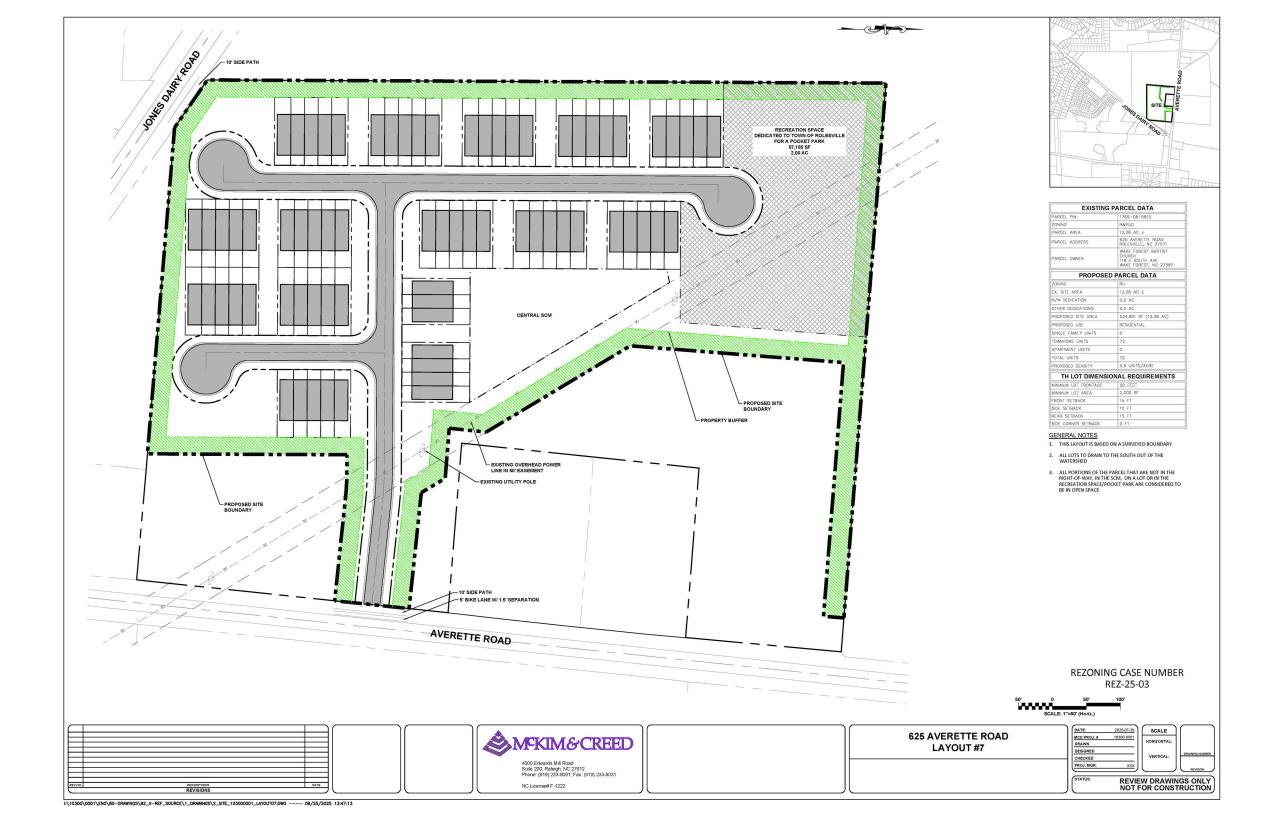
Respectfully,
Azure Development LLC

CONDITIONS TO ZONING 625 AVERETTE ROAD REZ-25-03

09/11/2025

- 1. THE SUBJECT PROPERTY SHALL BE DEVELOPED GENERALLY IN ACCORDANCE WITH THE CONCEPT PLAN ATTACHED HERETO AND INCORPORATED HEREIN AS IF FULLY SET OUT. LOCATIONS SHOWN FOR COMMITTED ELEMENTS INCLUDING, BUT NOT LIMITED TO GREENWAYS, STREETS, AND OPEN AREAS SHOWN ON THE CONCEPT PLAN, MAY BE ADJUSTED TO CONFORM TO LDO REQUIREMENTS OR AS PERMITTED AS A MINOR ADJUSTMENT BY THE LAND DEVELOPMENT ADMINISTRATOR.
- 2. TOTAL RESIDENTIAL DENSITY SHALL NOT EXCEED 5.9 UNITS PER ACRE.
- 3. DEDICATED ACREAGE FOR POCKET PARK IS A MINIMUM OF TWO ACRES.

Property C	Property Owner Authorization		
Wake Forest Baptist Church	Date		



Azure Development

September 16th, 2025

RE: 625 Averette Rd REZ-25-03

Dear Property Owner:

By way of this letter, the Town of Rolesville wants to officially notify you of a proposed rezoning adjacent to your property known as 625 Averette Rd. Azure Development will hold a neighborhood meeting on 15th of October 2025 from 5:30 PM to 7:30 PM at The Rolesville Community Center at 514 Southtown Circle Rolesville, NC to explain our proposal.

Azure Development will receive your comments at this meeting and then present the proposed rezoning to the Town Board of Commissioners for consideration. The Planning Board will most likely review and consider this case on a date determined by Rolesville at Rolesville Town Hall (502 Southtown Circle).

This case involves a rezoning request for:

625 Averette Rd. REZ-25-03

The Town of Rolesville encourages you to attend these meetings and submit your input. The more involved citizens are in our government, the more trusted, transparent, and efficient the municipality will be.

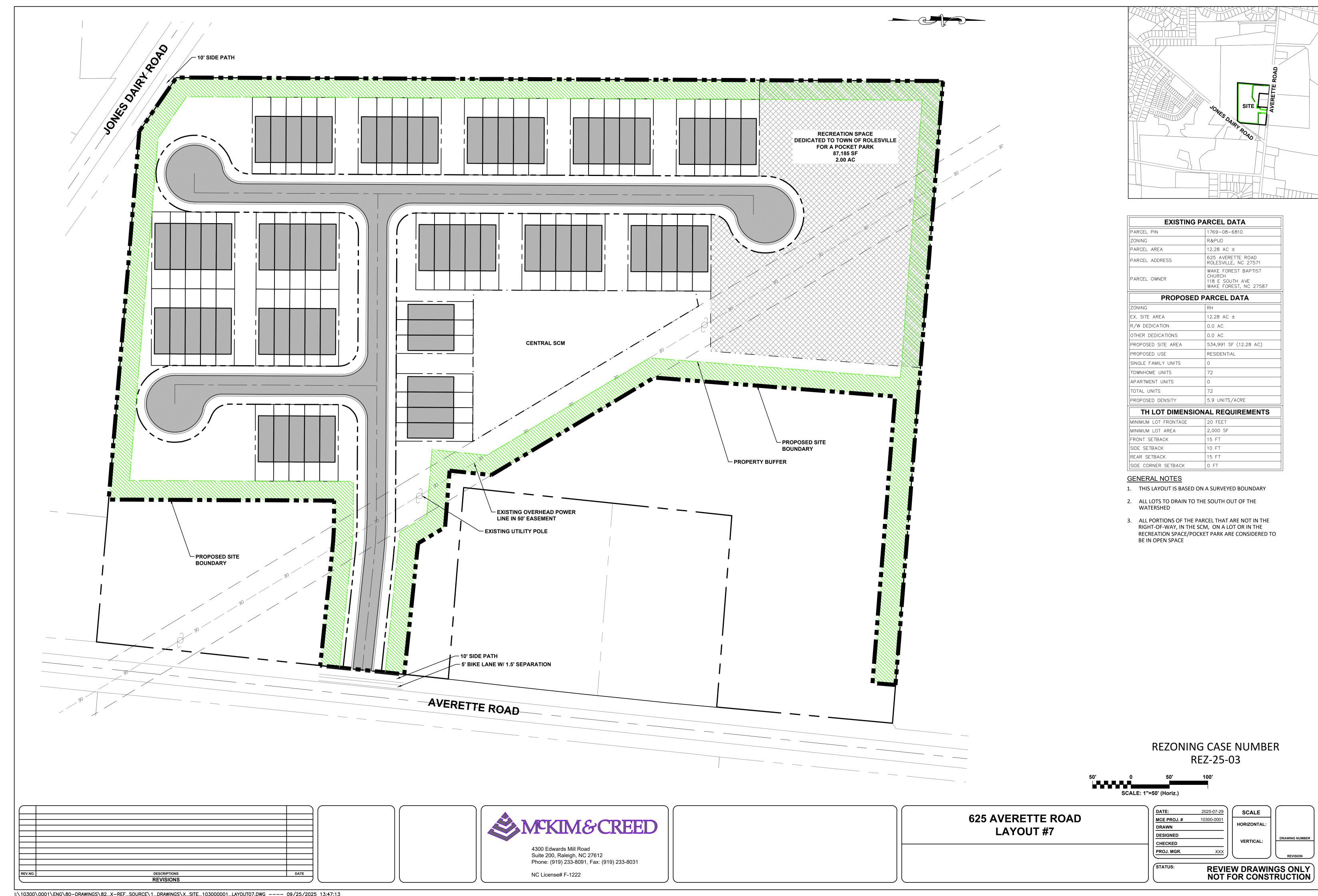
Town Board of Commissioners are the elected body that will make the final determination and decision on this proposal.

After consideration by the neighborhood meeting by the applicant, a public hearing will be held by the Town Board of Commissioners on a future date. You will receive another similar notification about the date, time, and location of this public hearing. These hearings may be administrative, legislative, or quasi-judicial (depending upon the North Carolina State Statute requirements), but you will still have the opportunity to be heard once again.

Sincerely,

Azure Development

David Peoples



625 Averette Rd. Neighborhood Meeting Sign-In Sheet

10/15/2025

NAME	ADDRESS
John Dowis	1608 Jones Darry R) 1612 Jones Darry RJ 609 Averette Rel.
Besa Davis	1612 Tones Damy Rd
Souden Fledson	609 Averette Rd.
201047-27	
a a	

Address	Owner
529 SHORTHORN DR	PRESERVE AT JONES DAIRY LLC
701 HOLSTEIN DAIRY WAY	DR HORTON INC
1612 JONES DAIRY RD	DAVIS, STEPHENIE MULLEN DAVIS, JOHN HUGH
369 SPELT CT	CAMPBELL, JOSLN
372 SPELT CT	DIETRICH, MICHAEL D DIETRICH, HALEY
525 AVERETTE RD	WFINV, LLC
609 AVERETTE RD	BLEDSOE, SONDRA ADAMS
612 RAMO GRANDE DR	MOERLEN, FRANCOIS MOERLEN, ERICA RAKOTONINDRAINY
1512 JONES DAIRY RD	TAYLOR, JOSHUA R TAYLOR, DANIELLE D
701 AVERETTE RD	MOORE, VANCE M MOORE, BARBIE J
709 AVERETTE RD	MOORE'S RENTALS LLC
712 HOLSTEIN DAIRY WAY	COACHMAN, DEBORAH A.
810 AVERETTE RD	PEARCE, KIRBY VAUGHN PEARCE, TERRY JONES
732 AVERETTE RD	PEARCE, KIRBY VAUGHN PEARCE, TERRY JONES
1624 JONES DAIRY RD	CITY OF RALEIGH

PIN	Mailing Address 1	Mailing Address 2
1769092846	10534 ARNOLD PALMER DR	RALEIGH NC 27617-7775
1759997531	1341 HORTON CIR	ARLINGTON TX 76011-4310
1769085035	1608 JONES DAIRY RD	ROLESVILLE NC 27571-8295
1759987279	369 SPELT CT	ROLESVILLE NC 27571-7708
1759987271	372 SPELT CT	ROLESVILLE NC 27571-7708
1769078778	4641 PARAGON PARK RD STE	RALEIGH NC 27616-3407
1769089117	609 AVERETTE RD	WAKE FOREST NC 27587-8203
1759998600	612 RAMO GRANDE DR	WAKE FOREST NC 27587-3051
1759987489	6501 RIDGEMOUNT ST	WAKE FOREST NC 27587-3622
1769089931	701 AVERETTE RD	WAKE FOREST NC 27587-8205
1769099058	701 AVERETTE RD	WAKE FOREST NC 27587-8205
1759997248	712 HOLSTEIN DAIRY WAY	WAKE FOREST NC 27587-3048
1860106234	808 AVERETTE RD	WAKE FOREST NC 27587-8206
1769197611	PO BOX 160	ROLESVILLE NC 27571-0160
1769077986	RALEIGH CITY ATTORNEY	219 FAYETTEVILLE ST

CONDITIONS TO ZONING 625 AVERETTE ROAD REZ-25-03

09/11/2025

- 1. THE SUBJECT PROPERTY SHALL BE DEVELOPED GENERALLY IN ACCORDANCE WITH THE CONCEPT PLAN ATTACHED HERETO AND INCORPORATED HEREIN AS IF FULLY SET OUT. LOCATIONS SHOWN FOR COMMITTED ELEMENTS INCLUDING, BUT NOT LIMITED TO GREENWAYS, STREETS, AND OPEN AREAS SHOWN ON THE CONCEPT PLAN, MAY BE ADJUSTED TO CONFORM TO LDO REQUIREMENTS OR AS PERMITTED AS A MINOR ADJUSTMENT BY THE LAND DEVELOPMENT ADMINISTRATOR.
- 2. TOTAL RESIDENTIAL DENSITY SHALL NOT EXCEED 5.9 UNITS PER ACRE.
- 3. DEDICATED ACREAGE FOR POCKET PARK IS A MINIMUM OF TWO ACRES.

Property Owner Authorization

Ik. Trustee Chair, 10.6.25 Wake Forest Baptist Church

Neighborhood Meeting Minutes 625 Averette Rd. REZ-25-03

10/15/2025

Start Time: 5:30PM

Attendees: See Sign-in Sheet for details

The applicant held a neighborhood meeting during a 2-hour time slot window in which three neighbors attended. Due to the small number of attendees the meeting began with handing out copies of the latest concept site plan to aid in the discussion. The applicant explained the proposed rezoning and the historical limitations of the existing zoning on the site. The neighbors were concerned about SCM design and maintenance, and most of the discussion centered around this. The pocket park was discussed as well as the community being set substantially off Averette Rd. which seemed to be well received. The applicant agreed to stay in touch with one of the neighbors regarding the progression of both the rezoning and the construction drawings.



July 29, 2025

Steve Macko
Azure Development LLC
10534 Arnold Palmer Drive
Raleigh, NC 27617
steve.macko14@gmail.com

Reference: Trip Generation Letter - Jones Dairy Road Residential

Dear Mr. Macko:

This letter provides trip generation calculations for the proposed Jones Dairy Road Residential development in Rolesville. The proposed development will include residential units with an estimated density of approximately 72 townhomes. This property is near the Preserve at Jones Dairy residential development that is currently under construction.

Average weekday daily, AM peak hour, and PM peak hour trips for the proposed residential development were calculated using the ITE *Trip Generation Manual*, 11th Edition. Refer to Table 1 for the development's trip generation.

Table 1: Trip Generation Summary

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weekday AM Peak Hour Trips (vph)		Weekday PM Peak Hour Trips (vph)	
			Enter	Exit	Enter	Exit
Singe Family Attached (215)	72 Units	498	8	24	23	16

The development is expected to generate 498 daily trips, 32 AM peak hour trips, and 39 PM peak hour trips on a typical weekday.



Conclusions

The Town of Rolesville's code requires a Traffic Impact Analysis (TIA) for developments generating at least 500 daily trips or 50 peak hour trips. The proposed development is expected to generate fewer than 500 daily trips and less than 50 peak hour trips and therefore does not meet the threshold for a TIA under the Town's code.

Development plans will be reviewed by Town staff and multiple departments/agencies through the Town's Technical Review Committee process. In addition, the development must obtain a driveway permit from the NCDOT to access the public road system. These review processes will evaluate detailed development plans and allow agencies to request specific information and/or transportation improvements.

Please let me know if any additional information is needed or if there are questions.

Sincerely,

Rynal Stephenson, P.E.

Chief Traffic Analysis Engineer

DRMP, Inc.

Corporate License #F-1524



Memo

To: Town of Rolesville Planning Board

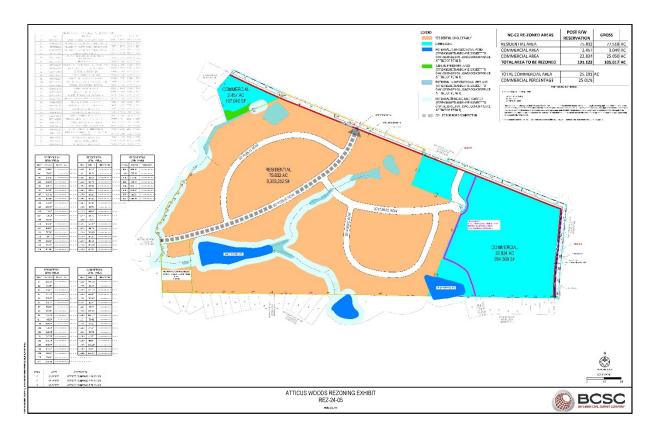
From: Michael Elabarger, Interim Planning Director & Meredith Gruber, Senior Planner

Date: Meeting Held October 27, 2025

Re: REZ-24-05 Atticus Woods – Wait Avenue

Rezoning Application & Site Data

The Town of Rolesville Planning Department received a Rezoning application in December 2024 for property located at 2028, 2200, 2206, 2216, and 2232 Wait Avenue to change the zoning from Residential & Planned Unit Development (R&PUD) and Residential Low (RL) to Neighborhood Center Conditional Zoning District (NC-CZ). The applicant has included a Concept Site Plan as required by the Land Development Ordinance (LDO) for the Neighborhood Center (NC) zoning district.



Atticus Woods Concept Site Plan

Key information from the rezoning application is in the Site Data Table below:

Site Data Table		
Case Number and Name	REZ-24-05 Atticus Woods – Wait Avenue	
Address(es)	2028, 2200, 2206, 2216, and 2232 Wait Avenue	
Owner Thales Academy and WFINV, LLC		
Applicant	Paul C. Schmidt, Ardent Building, LLC	
Area	105.619 Acres	
PIN(s)	1850950449, 1860056400, 1860045778, 1860151206, 1860143789	
Current Zoning	Residential & Planned Unit Development (R&PUD) and Residential Low (RL)	
Proposed Zoning	Neighborhood Center Conditional Zoning District (NC-CZ)	
Associated Previous Case Number(s)	MA-18-02, SUP-18-01, SUP-21-01	
Current Use	Vacant	
Proposed Use Single Family Housing and Commercial Uses		

Proposed Conditions of Approval

The applicant's proposed Conditions of Approval include:

- Prohibiting Commercial Parking, Flex Industrial, and Fulfillment Center uses;
- Parkland dedication of approximately 2.5 acres;
- Maximum of 300 single family detached and attached housing, at a density of four (4) units per acre.

Development Agreement

The applicant is proposing a Development Agreement to modify the following standards:

- The NC District Development Standards in Table 3.4.3. of the LDO are modified as follows:
 - The minimum side setback for detached, single-family homes shall be reduced to five feet (5').
 - The maximum single-use/building size (excluding residential only structures) shall be 110,000 square feet.
- The NC District standards regarding timing of development in Section 3.4.3.D. of the LDO are modified as follows: A maximum of seventy-five (75) percent of the residential uses may be permitted until at least twenty-five (25) percent of the approved non-residential square footage is permitted (issue of a building permit).

Applicant Justification

The Applicant provided a Justification Statement for their rezoning request; it is included as Attachment 3. The Justification Statement notes the proposed rezoning would allow the property to be developed with a mix of uses including commercial and single family housing within walking distance of the commercial development.

Neighborhood Meeting

The applicant held a neighborhood meeting at the Rolesville Community Center on May 20, 2025. A neighborhood meeting report is included as Attachment 6.

Comprehensive Plan

Land Use

The Rolesville 2050 Comprehensive Plan's Future Land Use Map identifies the subject property as Mixed-Residential Community. These parcels are largely single family subdivisions with limited nonresidential development at key intersections, such as at Wait Avenue and Averette Road. The intent of this district is to provide unique and diverse residential opportunities and amenities through the Town while encouraging interconnectivity via multi-modal connections.

Community Transportation Plan

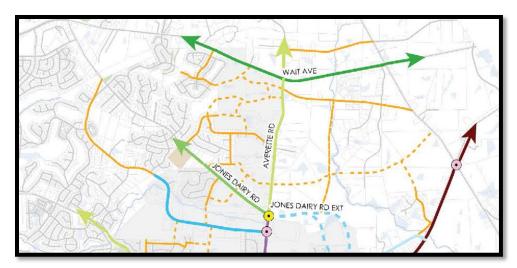
The Town of Rolesville's Community Transportation Plan (CTP, adopted 2021) includes recommendations for Thoroughfares, Collectors, and intersections. Thoroughfare and Collector recommendations apply to REZ-24-05, Atticus Woods – Wait Avenue.

Thoroughfare Recommendations

- Wait Avenue: 4-lane divided (raised median) with curb & gutter and sidepath; such cross-section entails an ultimate right-of-way width of 110 feet existing Right-of-way width is 60 Feet, hence ½ of the missing amount 25' of 50' would be required at the time of Preliminary Subdivision Plat. Due to the short length in Rolesville's planning area, Wait Avenue will include sidepath along both sides for consistency.
- Averette Road: 4-lane divided (narrow raised median) with curb & gutter, bike lanes, and sidewalks. Such cross-section entails an ultimate right-of-way width of 110 feet; existing Right-of-way width is 60 Feet, hence ½ of the missing amount 25' of 50' would be required at the time of Preliminary Subdivision Plat.

Collector Recommendations

- The CTP Proposed Network Map shows a Collector connection from Austin Ridge Parkway through the subject property connecting to Carrie May Lane.
- A Collector connection from the proposed Collector noted above to Old Pearce Road is also shown on the CTP Proposed Network Map.
- Finally, the CTP Proposed Network Map shows a Collector connection from Classical Way in Elizabeth Springs to the Collector connection to Old Pearce Road.



Proposed Network Map, Northern Rolesville (Thoroughfares Shown in Green and Collectors shown in Mango Yellow)

Greenway and Bike Plans

As per the 2022 Greenway and Bike Plans, proposed pedestrian routes are shown in the following locations:

- A sidepath is required on Wait Avenue.
- Bike lanes and sidepaths are required along Averette Road.
- A developer-built greenway is required running south to north through the subject property.

Consistency

The Applicant's rezoning request is **consistent** with the Town of Rolesville's Comprehensive Plan for the following reasons:

- The proposed residential and commercial uses are consistent with the Mixed-Residential Community District.
- The vehicular circulation network includes the Collector connection from Austin Ridge Parkway through the subject property connecting to Wait Avenue opposite Carrie May Lane as recommended by Rolesville's Community Transportation Plan.
- The Concept Site Plan includes sidepaths, bike lanes, and the developer-built greenway as recommended by Rolesville's Greenway and Bike Plans.

The Applicant's rezoning request is **inconsistent** with the Town of Rolesville's Comprehensive Plan for the following reasons:

- The vehicular circulation network illustrated on the Concept Site Plan does not include the Collector connection from the proposed Collector connection (from Austin Ridge Parkway to Carrie May Lane) to Old Pearce Road as recommended by Rolesville's Community Transportation Plan.
- The Collector connection from Classical Way in Elizabeth Springs to the Collector connection to Old Pearce Road is also not shown on the Concept Site Plan.

Traffic

Traffic Impact Analysis

The consulting firm, DRMP, performed the Traffic Impact Analysis (TIA) for this project on behalf of the Town; the study analyzed a development of:

- 300 Single-Family Detached Housing Dwelling Units
- 107,049 SF Mini-Warehouse
- 51,000 SF Supermarket
- 23,700 SF Strip Retail Plaza
- 2,500 SF Coffee/Donut Shop with Drive-Through Window
- 2,400 SF Drive-in Bank
- 2 Fast Casual Restaurants at 2,500 SF each
- 5,000 SF Convenience Store/Gas Station with 12 fueling positions

The Draft Final Report dated August 2025 is included as Attachment 7 to this memo, and a final letter from NCDOT is included as Attachment 8.

TIA Summary - Trip Generation	Entering	Exiting	Total
AM Peak (7-9 am)	383	411	794
PM Peak (4-6 pm)	689	647	1,336
Weekday Daily Trips			14,353

Five intersections were studied for capacity analysis and Level of Service (LOS) impact of this development. Recommendations for improvements are listed in the table below.

TIA Summary – Recommendations		
Wait Avenue and Averette Road	 Construct a westbound right-turn lane on Wait Avenue with 100 feet of storage and appropriate taper. Construct a northbound left-turn Lane on Averette Road with 300 feet of storage and appropriate taper 	
Wait Avenue and Carrie May Lane/Access B	 Construct Site Access B (northbound approach) with one ingress and one egress lane. Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length. Construct a westbound Wait Avenue left turn lane with 125 feet of storage and appropriate taper length. (Under Scenario-1). Construct a westbound Wait Avenue left turn lane with 350 feet of storage and appropriate taper length. (Under Scenario-2). Install a traffic signal. 	
Averette Road and Old Pearce Road/Access E	Construct Site Access E (westbound approach) as a with one ingress and one egress lane.	

	 Construct a northbound Averette Road left turn lane with 100 feet of storage and appropriate taper length. Construct a southbound Averette Road right turn lane with 75 feet of storage and appropriate taper length. Provide stop control for the westbound approach.
Wait Avenue and Access C	 Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length. Construct a westbound Wait Avenue left turn lane with 175 feet of storage and appropriate taper length (Under Scenario-1).
Wait Avenue and Access D	Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.

Development Review

The Technical Review Committee (TRC) reviewed six (6) submittals of the Rezoning application and attachments, with most comments being resolved. Outstanding comments/issues include the following:

- 3. FYI General Statutes 160D-605(a) Plan Consistency "If a zoning map amendment is adopted and the action was deemed inconsistent with the adopted plan, the zoning amendment has the effect of also amending any future land-use map in the approved plan, and no additional request or application for a plan amendment is required. A plan amendment and a zoning amendment may be considered concurrently. "An extension of Classical Way is identified on the Community Transportation Plan (CTP) as a Collector road on this property. Staff can create a Statement of Plan Inconsistency for the Board of Commissioners to adopt should they approve the Rezoning request including the lack of compliance with the CTP.
 - Noted by applicant.
- 5. REPEAT LDO Section 9.2.5.B. (per TA-22-01) Existing street stubs are required to be connected to and continued; the Board of Commissioners cannot approve a deviation from the LDO through the Conditional Rezoning process. This will be identified as an outstanding topic. Note amending the CTP may delete the extension of Classical Way ON the subject property but does not address the lack of connecting a stubbed street (as Classical Way exists within Elizabeth Springs). Note if the existing Classical Way was abandoned (via petition, by the Board of Commissioners) as a public right-of-way, there would not be a 'stub' requiring connection/extension.
 - Noted by applicant.

Staff Recommendation

Staff recommends denial of REZ-24-05, Atticus Woods – Wait Avenue, based on inconsistencies with the Comprehensive Plan and outstanding TRC review comments, both about the lack of including two Collector roadways, as noted in the Comprehensive Plan and Development Review Sections of this report. The applicant may be able to address the issues leading to the staff recommendation of denial if the Town Board of Commissioners approves a Community Transportation Plan (CTP) amendment along with an approval of the rezoning request.

Proposed Motion

Motion to recommend to the Town Board of Commissioners (approval or denial) of rezoning request REZ-24-05 Atticus Woods – Wait Avenue based on (consistency or inconsistency) with Rolesville's Comprehensive Plan. (Please include examples of consistency or inconsistency.)

Attachments

1	Application
2	Conditions of Approval - September 27, 2025
3	Applicant Justification Statement - September 27, 2025
4	Development Agreement - September 2, 2025
5	Concept Site Plan - September 2, 2025
6	Neighborhood Meeting Minutes - May 20, 2025
7	Traffic Impact Analysis (TIA) Report - August 7, 2025
8	NCDOT Final Letter - October 1, 2025

Case No.	REZ-24-05
Date	



Contact Information		
Property Owner		
Address	City/State/Zip RALEIGH NC 27616-34	07
Phone	Email	
Developer ARDENT BUILDING, LLC		
Contact Name PAUL C SCHMIDT		
Address P.O. BOX 5509	City/State/Zip CARY, NC 27512	
Phone 919-991-1428	Email cschmidt@e1homes.com	
Property Information		
Address 2028 WAIT AVE		
Wake County PIN(s) <u>1850950449</u>		
Current Zoning District R&PUD	Requested Zoning District NC-CZ	
Total Acreage 51.758 AC		
Owner Signature		
I hereby certify that the information containe	d herein is true and completed. I understand tha	t if any item is
found to be otherwise after evidentiary heari	ing before the Town Board of Commissioners, tha	at the action of the
Board may be invalidated. Signature	Fueldy Date	APRIL 11,20
STATE OF NORTH CAROLINA COUNTY OF	haloest I I del	
I, a Notary Public, do hereby certify thatY		
the	acknowledged the due execution of the foregoin day of the foregoin 20_	g instrument. This
My commission expires $1-20-2030$	NNO NATIONAL MARKET NATIONAL M	
Signature En M Wall	Seal NO CONTINUE TO SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL	
To	wn of Rolesville Planning	



Metes and Bounds Description of Property		



Rezoning Justification		



Property Owner Information

Wake County PIN	Property Owner	Mailing Address	Zip Code

Rolesville
Genuine Community • Capital Connection Est. 1837

Case	No. REZ-24-05
Date	

25

Map Amendment Application

Contact Information	
Property Owner THALES ACADEMY	
Address 4641 PARAGON PARK RD	City/State/Zip RALEIGH NC 27616-3407
Phone	Email
Developer ARDENT BUILDING, LLC	
Contact Name PAUL C SCHMIDT	
Address P.O. BOX 5509	City/State/Zip CARY, NC 27512
Phone 919-991-1428	Email_cschmidt@e1homes.com
Property Information	
Address 2206 WAIT AVE / 2200 WAIT AVE / 221	6 WAIT AVE / 2232 WAIT AVE
Wake County PIN(s) 1860045778 / 186005640	0 / 1860151206 / 1860143789
Current Zoning District R&PUD AND RL	Requested Zoning District NC-CZ
Total Acreage 53.861 AC	
Owner Signature	
I hereby certify that the information contained	herein is true and completed. I understand that if any item is
found to be otherwise after evidentiary hearing	g before the Town Board of Commissioners, that the action of the
Board may be invalidated	$^{\prime}$ $^{\prime}$
Signature / Meth	Fuldy Date APRIL 11,20
2	
STATE OF NORTH CAROLINA	
COUNTY OF Wahe	
I, a Notary Public, do hereby certify that	obert Lluddy
personally appeared before me this day and a	acknowledged the due execution of the foregoing instrument. This
the	day of ADC
My commission expires $1-20-2030$) The state of the
Signature Em M. Walst	Seal Seal
Tow	n of Rolesville Planning

PO Box 250 / Rolesville, North Carolina 27571 / RolesvilleNC.gov / 919.554.6517



Metes and Bounds Description of Property



Metes and Bounds Description of Property



Metes and Bounds Description of Property



Rezoning Justification



Property Owner Information

Wake County PIN	Property Owner	Mailing Address	Zip Code

PROPOSED CONDITIONS OF APPROVAL

REZ-24-05

ATTICUS WOODS (2028, 2200, 2206, 2216, 2232 WAIT AVE)

09-27-2025

- 1. The following uses shall be prohibited:
 - a. Commercial Parking
 - b. Flex Industrial
 - c. Fulfillment Center
- 2. Developer shall dedicate approximately 2.5 acres of land as Town park land as indicated on the concept plan accompanying this rezoning application. Developer shall convey the land to the Town at the time of recording of the final plat for the phase that contains the park land. All unimproved, dedicated park lands shall be deemed active open space that may be used to fulfill the development's active open space requirements under the LDO. Though not required, any improvements contributed to the active park will be included in a separate Development Agreement and such costs shall be identified in a cost estimate as part of the Development Agreement for equal active open space credit, as accepted by the Town Council.
- 3. The proposed residential subdivision will include a maximum of 300 single-family and townhome units, at an overall density of 4 units per acre.

Property Owner: Thales Academy, NC Non-Profit Corporation 2006, 2200, 2216, and 2232 Wait Ave
(PINs: 1860045778, 1860056400, 1860151206, and 1860143789)
Registered Agent: .
(Robert L. Luddy)
Property Owner: WFINV, LLC
2028 Wait Ave
(PIN: 1850950449)
Registered Agent:
(Robert L. Luddy)

REZONING JUSTIFICATION

The proposed rezoning of the Property to Neighborhood Center- Conditional Zoning (NC-CZ) will permit the property to be developed for a mix of uses, including up to 125,000 sf of commercial for grocery stores, restaurants and other retail uses and up to 300 residences within walking distance of this new retail center.

The development team seeking this rezoning considers the proposed commercial portions of the development as crucial to the overall success of the development and plans on commencing construction of commercial areas in the initial phases of development. The proposed NC-CZ zoning will further ensure that the commercial areas actually develop during build out of residential areas and do not become another set of undeveloped lots set aside by a residential developer for commercial uses that may never come.

The proposed development is consistent with the Property's Medium Density Residential designation on the Future Land Use Map. The residential portions of the development will include a mix of high-quality single-family homes and townhomes at an overall density of up to 4 units per acre, which is consistent with Comprehensive Plan guidance. The commercial portions of the development will be consistent with Comprehensive Plan guidance.

The proposed residential uses are consistent with surrounding residential developments and will benefit residents of northern Rolesville and surrounding areas by providing needed retail uses not currently available in this part of town, including grocery and restaurants.

The proposed development is also consistent with the intent of the existing zoning of the Property. All of the Property outside of the watershed is zoned Residential and Planned Unit Development (R&PUD). The legacy PUD zoning district subjects the Property to a master plan that permits a school on the eastern portion of the site and up to 143 single-family homes on the western portion of the site. The legacy master plan is now infeasible because Thales Academy no longer intends to build a school on the eastern portion of the Property. Under the Town's Land Development Ordinance, the only way to update the legacy master plan is to rezone the property into a mixed-use district such as the NC district.

In addition to the proposed rezoning, the applicants are seeking a development agreement and text amendments with the Town. The applicant expects that the specific modifications needed as part of text amendments and development agreement will be determined in cooperation with Town staff.

Instrument prepared by: Mail after recording: Town Clerk, Town of Rolesville, PO Box 250, Rolesville, NC 27571
NORTH CAROLINA
WAKE COUNTY
DEVELOPMENT AGREEMENT ATTICUS WOODS
THIS DEVELOPMENT AGREEMENT (the " Agreement ") is made to be effective as of the day of, 2025, by and between the TOWN OF ROLESVILLE , a North Carolina municipal corporation (the " Town ") and ARDENT BUILDING , LLC , a North Carolina limited liability company (the " Developer ").
WITNESSETH:
WHEREAS, Developer desires to develop the real property comprised of approximately 101.123 acres and which is more particularly described on Exhibit A, attached hereto and incorporated herein (the " Property "); and
WHEREAS, the Property is an assemblage of parcels currently owned by Thales Academy and WFINV, LLC; and
WHEREAS, Developer has the right to purchase the Property under a purchase agreement(s) with Thales Academy and WFINV, LLC; and
WHEREAS, Developer desires to develop the Property as a mixed use development with a retail center and a neighborhood of single-family homes and townhomes, the concept plan for which is attached hereto and incorporated herein as <u>Exhibit B</u>;
WHEREAS, on, Developer filed a rezoning application (REZ-24-05) proposing to rezone the Property to Neighborhood Center ("NC") (the "Rezoning Application"); and
WHEREAS, between and, Developer supplemented the Rezoning Application by amending its concept plan to more closely align its

plan for development of the Property to the Town's Land Development Ordinance ("LDO") and Comprehensive Land Use Plan (collectively, the "Amended Rezoning Application"); and

WHEREAS, pursuant to Section 3.4.3.D and Table 3.4.3 of Rolesville's Land Development Ordinance ("LDO"), the timing of development standards and development standards for the development may be modified as part of this Development Agreement; and

WHEREAS, on ______, following a public hearing before the Town Board of Commissioners, the Town approved the Amended Rezoning Application; and

WHEREAS, the approved rezoning of the Property permits up to 300 single-family home and townhome residential lots, up to 200,000 square feet of retail and office uses, along with ancillary public and private facilities, including streets, sidewalks, water and sewer lines, storm drainage improvements, open space, and passive and/or active recreation facilities that will be developed in multiple phases, requiring a long-term commitment of private and public resources; and

WHEREAS, pursuant to Article 10, Chapter 160D of the General Statutes, the Town possesses broad authority to form development agreements in instances when it determines that the location, nature, or size of a particular proposed development causes the necessity for Town to formulate specific conditions, terms, restrictions or other requirements for the public health, safety, or welfare of its citizens; and

WHEREAS, the Development will provide new retail and office space in an area of Rolesville where such uses are needed and currently lacking; and

WHEREAS, the residential areas of the Development will be developed to conserve significant open space and stream buffers in a manner that will benefit residents of the Town but is difficult to accommodate without modification to the residential lot standards; and

WHEREAS, pursuant to G.S. § 160D-1005, the Town Board of Commissioners conducted a public hearing on ______ concerning forming the Agreement. The notice of public hearing specified, among other things, the location of the Property subject to the Agreement, the development uses proposed on the Property, and a place where a copy of the proposed Agreement could be obtained; and

WHEREAS, the Town finds the following: (1) development projects often occur in multiple phases over several years, requiring a long-term commitment of both public and private resources; (2) such developments create community impacts and opportunities that are difficult to accommodate within traditional zoning processes; (3) because of the scale and duration, such projects often require careful coordination of public capital facilities planning, financing, and construction schedules and phasing of the private development; (4) such projects involve substantial commitments of private capital, which developers are usually unwilling to risk without sufficient assurances that development standards will remain stable through the extended period of the development; (5) such developments often permit communities and developers to experiment with different or nontraditional types of development concepts and standards, while still managing impacts on the surrounding areas; (6) to better structure and manage development approvals for such developments and ensure their proper integration into local capital facilities

programs, local governments need flexibility to negotiate such developments; and (7) modification of the LDO development standards described herein will facilitate the development of commercial uses in an area of Town that currently lacks such uses and will permit the Town to experiment with nontraditional standards for residential development while still preserving significant open space; and thereby promotes the public health, safety, and welfare; and

WHEREAS, after careful review and deliberation, including without limitation the General Assembly's findings set out in G.S. § 160D-1001, the Town Board of Commissioners finds forming a development agreement as permitted by Article 10 of Chapter 160D of the General Statutes is appropriate and is in the best interests of Rolesville and its citizens.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein and other good and valuable consideration, the parties hereto agree as follows:

1. <u>Modification of Development Standards.</u>

- a. The NC District Development Standards in Table 3.4.3 of the LDO are modified as follows:
 - i. The minimum side setback for detached, single-family homes shall be reduced to 5'.
 - ii. The maximum single-use/building size (excluding residential only structures) shall be 110,000 square feet.
- b. The NC District standards regarding timing of development in Section 3.4.3.D of the LDO are modified as follows: A maximum of seventy-five (75) percent of the residential uses may be permitted until at least twenty-five (25) percent of the approved non-residential square footage is permitted (issue of a building permit).
- 2. <u>Force Majeure.</u> The parties hereto shall not be liable for any failure to perform hereunder as a result of an external event or events beyond their respective control, including, without limitation, acts of the United States of America, acts of the State of North Carolina (including the denial of permits which have been pursued in good faith), embargos, fire, flood, drought, hurricanes, tornadoes, explosions, acts of God or a public enemy, strikes, labor disputes, vandalism, civil riots, or pandemic. However, if any such event interferes with the performance by a party hereunder, such party shall diligently and in good faith act to the extent within its power to remedy the circumstances affecting its performance or to complete performance in as timely a manner as is reasonably possible.

3. Indemnification of Town.

a. To the maximum extent allowed by law, Developer shall defend, indemnify, and hold harmless the Town from and against all Charges (as defined below) that arise in any manner from, in connection with, or out of this Agreement as a result of acts or omissions of the Developer or contractors or subcontractors or anyone directly or indirectly employed by or contracting with any of them or anyone for

whose acts any of them may be liable. In performing its duties under this section, Developer shall, at is sole expense, defend all Charges with legal counsel reasonably acceptable to the Town. Notwithstanding the foregoing, this Subsection shall not require Developer to indemnify or hold harmless the Town and indemnitees against liability for damages arising out of bodily injury to persons or damage to property proximately caused by or resulting from the gross negligence, in whole or in part, of the Town.

- b. "Charges" shall mean claims, suits, judgments, costs, damages, losses, demands, liabilities, duties, obligations, fines, penalties, royalties, settlements, interest, reasonable attorney's fees, expenses, and amounts for alleged violations of sedimentation pollution, erosion control, pollution, or other environmental laws, regulations, ordinances, rules, or orders, including but not limited to any such alleged violation that arises out of the handling, transportation, deposit, or delivery of the items that are the subject of this Agreement. In this Indemnification, "the Town" includes the Town and its officers, officials, employees, independent contractors, and agents, which shall not be constructed to include the Developer.
- c. Nothing in this Section shall affect any warranties in favor of the Town that are otherwise provided in or arise out of this Agreement. This section is in addition to and shall be construed separately from any other indemnification provisions that may be in this Agreement.
- d. This Section shall remain in force despite termination of this Agreement (whether by expiration of the term or otherwise) and is not limited by any Warranty Period appearing elsewhere in the Agreement.
- 4. <u>Written Consents from the Town.</u> Where this Agreement refers to written approvals or consents to be given by the Town and the person or position that may give consent is not identified, the authority to give such approvals shall be delegated to the Town Manager or his designee. An approval required by this Agreement shall not be effective unless given in writing.
- 5. <u>No Waiver of Governmental Authority or Discretion.</u> Nothing in this Agreement shall be construed to bind, estop, direct, limit, or impair the future regulatory, legislative, or governmental discretion of the Town of Rolesville Board of Commissioners in a manner not permitted by law. The Town shall incur no liability to the Developer for any losses or damages it may incur as a result of or in connection with the Town's exercise or performance of its regulatory, legislative, or governmental powers or functions or any judicial determination regarding the same.

6. Miscellaneous.

a. <u>Choice of Law and Forum.</u> This Agreement shall be deemed made in Wake County, North Carolina. This Agreement shall be governed by and construed in accordance with the laws of North Carolina. The exclusive forum and venue for

all actions arising out of this Agreement shall be the North Carolina General Court of Justice in Wake County, North Carolina. Such actions shall neither be commenced in nor removed to federal court. This section shall not apply to subsequent actions to enforce a judgment entered in actions heard pursuant to this section.

- b. <u>Waiver.</u> No action or failure to act by the Town shall constitute a waiver of any of its rights or remedies that arise out of this Agreement, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing.
- c. <u>Severability.</u> If any provision of this Agreement shall be unenforceable, the remainder of this Agreement shall be enforceable to the extent permitted by law.
- d. <u>No Third-Party Rights Created.</u> This Agreement is intended for the benefit of the Town and Developer and not for any other person, and no such persons shall enjoy any right, benefit, or entitlement under this Agreement.
- Principles of Interpretation and Definitions. In this Agreement, unless the context e. requires otherwise: (1) the singular includes the plural and the plural, the singular. The pronouns "it" and "its" include the masculine and feminine. References to statutes or regulations include all statutory and regulatory provisions consolidating, amending, or replacing the statute or regulation. References to contracts and agreements shall be deemed to include all amendments to them. The words "include," "including," etc. mean include, including, etc., without limitation. (2) References to a "Section" or "section" shall mean a section of this Agreement. (3) "Contract and "Agreement," whether or not capitalized, refer to this instrument. (4) Titles of sections, paragraphs, and articles are for convenience only and shall not be construed to affect the meaning of this Agreement. (5) "Duties" includes obligations. (6) The word "person" includes natural persons, firms, companies, associations, partnerships, trusts, corporations, governmental agencies and units, and other legal entities. (7) The word "shall" means the action is mandatory. (8) The word "day" means calendar day. (9) Attorneys for all parties have participated in the drafting of this document, and no future interpretation shall favor or disfavor one party over another on account of authorship.
- f. <u>Construction of Agreement.</u> In the event of a conflict or inconsistency between this Agreement and any currently existing agreement between the Town and Developer, the provisions of this Agreement shall control. In the event of a conflict or inconsistency between this Agreement and the approved Standard Specifications, the approved Standard Specifications shall control.
- g. <u>Amendment.</u> This Agreement shall not be modified in any manner except in writing, signed by each of the parties.

- h. <u>Applicability of Agreement</u>. This Agreement shall be applicable to the Property and Construction Documents as approved at the time of this Agreement, and as the same shall thereafter be amended or modified and approved by the Town.
- i. <u>Preambles.</u> The preambles to this Agreement are a part of the agreement of the parties set forth in this Agreement and shall be binding upon the parties in accordance with their terms.
- 7. <u>Term.</u> The term of this Agreement shall be a period of twelve (12) years following execution by both parties.
- 8. Real Covenant. This Agreement shall be a real covenant running with the Property, and any portion thereof, as it may be subdivided or recombined from time to time and shall apply to the development of all or any portion of the Property, and this Agreement shall be binding upon and shall insure to the benefit of any successor in title to the Property or any portion thereof.
- 9. <u>Assignment.</u> Developer shall be released from its obligations under this Agreement only upon the assignment and assumption of Developer's obligations hereunder by a successor in title to the Property and only with the prior written consent of the Town. The Town's consent shall not be unreasonably withheld, conditioned, or delayed if, as reasonably determined by the Town, the proposed assignee assuming Developer's obligations possesses adequate financial resources, ownership interests and development expertise needed to complete the requirements of this Agreement. An assignee's assumption of the obligations of this Agreement shall be memorialized by an assignment and assumption agreement executed by Developer and the assignee, and joined by the Town for the sole purpose of evidencing Town's consent, in a form reasonably approved by the Town Attorney and recorded in the Wake County Registry. Without otherwise modifying the foregoing, the Town consents to _________, as a permitted assignee upon execution and recordation of the aforementioned agreement.
- 10. <u>Consideration.</u> The parties hereto agree that this Agreement is mutually beneficial in that it provides for orderly urban growth and systematic extension of municipal improvements while at the same time saving a substantial amount of money for Developer by relieving Developer of certain infrastructure expenses for which it would otherwise have been obligated.
- 11. <u>Default by Developer.</u> The Town's Planning Director or his designee shall conduct an annual investigation on each anniversary date of recording this Agreement to determine if Developer is in compliance with the schedules and construction obligations attached hereto. In addition to other remedies provided for in this Agreement or by law or equity, any material breach which remains uncured for a period of thirty (30) days after receipt of written notice from the Town of non-compliance with the Phasing Schedule shall entitle the Town to require specific performance of Developer's obligations hereunder and recover such damages as to which the Town may be entitled, plus reasonable attorneys' fees and costs of any such litigation.

- 12. <u>Lender Subordination</u>. Any existing deeds of trust, mortgages, or liens encumbering the Property, other than property tax liens for the current tax year or governmental improvement assessment liens, must be subordinated to this Agreement. Such encumbrances must be listed, and this Agreement must be executed by the beneficiary and trustee (if trustee execution is necessary per the terms of the security instrument), mortgagee, or lien holder to evidence such subordination. Grantor represents that no superior deeds of trust, mortgages, or liens (other than property tax liens for the current tax year or governmental improvement assessment liens) encumber or affect the property at the time of the execution and recording of this Agreement, or that if any of the foregoing exist, they shall be subordinate to this Agreement through the subordination language herein.
- 13. <u>Effectiveness of Agreement</u>. This Agreement shall be effective upon its recording in the offices of the Wake Register of Deeds.
- 14. <u>Legal Obligations</u>. The failure of this Agreement to describe any permit, condition, or term of restriction applicable to the Property by law does not relieve Developer of the necessity of complying with such laws governing permitting requirements, conditions, terms or restrictions.

[Signature, Acknowledgment, & Exhibit Pages Follow]

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed under seal on the day and year first written above:

	"Town"
	TOWN OF ROLESVILLE
[municipal seal above]	By: Ronnie Currin, Mayor
Attest:	
Chritina Ynclan, Town Clerk	_
Approved as to Form:	
David J. Neill, Town Attorney	_
NORTH CAROLINA WAKE COUNTY	
this day and certified to me under oath or foregoing document, has no interest in the subscribing witness, and either (i) witness	vn Clerk of Rolesville, personally appeared before mer by affirmation that she is not a named party to the transaction, signed the foregoing document as sed Ronnie Currin, as Mayor of Rolesville, sign the principal acknowledge the principal's signature on the
Today's Date:,	[Notary's signature as name appears on seal]
	[Notary's printed name as name appears on seal]
[Affix Notary Seal in Space Above]	My commission expires:, 20
This instrument has been pre-audited to the Government Budget and Fiscal Control Act	he extent and in the manner required by the "Loca t."
	By: Amy Stevens, Town Finance Director

"Devel	loper"
ARDE	ENT BUILDING, LLC
(SEAI	L)
By: Name:	Manager
NORTH CAROLINA WAKE COUNTY	
	person(s) personally appeared before me this day, each he or she signed the foregoing document:
Today's Date:,	[Notary's signature as name appears on seal]
	[Notary's printed name as name appears on seal]

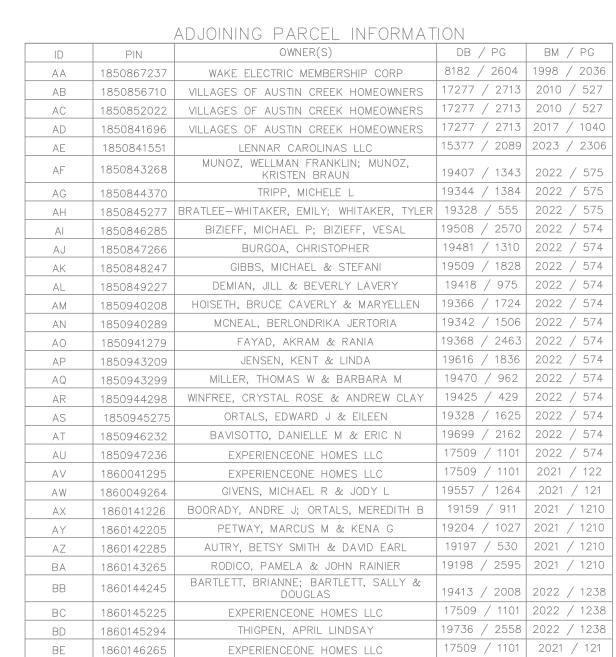
My commission expires: _______, 20___

EXHIBIT A The "Property"

[legal description to be attached]

EXHIBIT B The "Development"

[final concept plan to be attached]



5' RESERVED R/W

BM 1998 PG 2036

	RESIDEN			RESIDEN	
LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIREC
L40	273.29'	N21° 35' 45"E	L60	44.78'	S19° 10
L41	25.00'	N21° 33' 17"E	L61	26.68'	S76° 49
L42	30.00'	N21° 35' 33"E	L62	63.59'	S27° 16
L43	289.03'	N68° 25' 12"W	L63	35.70'	S 05° 25
L44	485.12'	N68° 36' 29"W	L64	53.96'	S 35° 40
L45	67.90'	N68° 29' 21"W	L65	31.53'	S 20° 09
L46	430.18'	N68° 23' 19"W	L66	35.88'	S56° 19
L47	62.15'	N66° 45' 05"W	L67	82.48'	S15° 56
L48	55.00'	S 23° 14' 55"W	L68	47.18'	S54° 15
L49	493.27'	S66° 17' 31"W	L69	86.56'	S03° 11
L50	120.37'	S66° 17' 31"W	L70	47.68'	S 27° 21
L51	139.83'	S 29° 02′ 26″W	L71	29.73'	S15° 39
L52	62.39'	S27° 04' 26"W	L72	12.33'	S 44° 18
L53	85.05'	S 22° 30′ 36″E	L73	325.02'	S02° 18
L54	82.65'	S 35° 17' 49"W	L74	92.70'	S 89° 08
L55	77.79'	S66° 41' 13"W	L75	398.59'	S 89° 22
L56	119.64'	S 30° 41' 32"W	L76	80.37'	S 89° 22
L57	48.52'	S70° 24' 48"W	L77	80.29'	S 89° 22
L58	58.77'	S07° 59' 45"W	L78	265.88'	S 89° 22
L59	84.46'	S 38° 16' 44"W	L79	50.09'	S 89° 29

			_			
	COMMEI LINE TA				COMMEI	
LINE #	LENGTH	DIRECTION		LINE #	LENGTH	DIREC
L1	225.89'	N64° 34' 13"W		L22	464.36'	S67° 5
L2	31.09'	S 40° 39′ 22″W		L23	28.27'	S22° 4
L3	25.91'	S 40° 39' 22"W		L24	421.22'	S 22° 1′
L4	161.80'	S 40° 39' 22"W		L25	395.14'	S 20° 5′
L5	288.49'	S17° 27' 54"E		L26	353.08'	S89° 0
L6	493.27'	N66° 17' 31"E		L27	69.22'	S88° 4
L7	55.00'	N23° 14' 55"E		L28	51.37'	S89° 2
L8	52.86'	N66° 45' 05"W		L29	180.15'	S89° 0
L9	180.85'	N65° 41' 26"W		L30	160.72'	S89° 0
L11	145.63'	NO5° 35' 13"E		L31	76.42'	S88° 4
L12	242.72'	NO5° 20' 11"E		L32	79.04'	S89° 0
L13	159.43'	N69° 23' 18"W		L33	74.04'	S88° 5
L14	248.14'	N68° 22' 23"W		L34	50.72'	S88° 5
L15	182.46'	N68° 12' 44"W		L35	40.01'	S88° 5
L16	200.54'	N68° 31' 07"W		L36	82.81'	N00° 20
L17	308.77'	N68° 30' 12"W		L37	133.25'	N02° 5
L18	30.00'	S 21° 35′ 33″W		L38	79.84'	N05° 2
L19	210.00'	N68° 26' 43"W		L39	124.58'	N05° 5
L20	25.00'	S21° 33' 17"W				
	1	i	1			

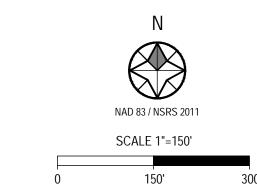
07.30.2025

	COMMER LINE TA	
LINE #	LENGTH	DIRECTION
L1	225.89'	N64° 34' 13"W
L2	31.09'	S 40° 39' 22"W
L3	25.91'	S 40° 39' 22"W
L4	161.80'	S 40° 39′ 22"W
L5	288.49'	S17° 27' 54"E
L6	493.27'	N66° 17' 31"E
L7	55.00'	N23° 14' 55"E
L8	52.86'	N66° 45' 05"W
L9	180.85'	N65° 41' 26"W
L11	145.63'	NO5° 35' 13"E
L12	242.72'	NO5° 20' 11"E
L13	159.43'	N69° 23' 18"W
L14	248.14'	N68° 22' 23"W
L15	182.46'	N68° 12' 44"W
L16	200.54'	N68° 31' 07"W
L17	308.77'	N68° 30' 12"W
L18	30.00'	S 21° 35' 33"W
L19	210.00'	N68° 26' 43"W
L20	25.00'	S21° 33' 17"W
L21	273.29'	S 21° 35′ 45″W

TOR REZ COMMENTS 1: 01.06.2025 TOR REZ COMMENTS 2: 03.11.2025

TOR REZ COMMENTS 3: 06.22.2025

COMMERCIAL 2.4 2 / 1506 2022 / 574 88 / 2463 2022 / 574 16 / 1836 2022 / 574 16 / 1836 2022 / 574 25 / 429 2022 / 574 22 / 429 2022 / 574 29 / 2162 2022 / 574 99 / 2162 2022 / 574 99 / 1101 2021 / 122 87 / 1027 2021 / 1210 90 / 1101 2021 / 1210 90 / 1301 2021 / 1210 90 / 1302 2021 / 1210 90 / 1302 2021 / 1210 90 / 1302 2021 / 1210 90 / 1303 2021 / 1210 90 / 1303 2021 / 1210 90 / 1303 2021 / 1210 90 / 1303 2021 / 1210 90 / 1303 2021 / 1210 90 / 1303 2021 / 1210 90 / 1303 2021 / 1210	(STREAMS/WETLANDS ARE SUBJECT TO CHANGE BASED ON USACE CONCURRENCE AT TIME OF PERMIT) POTENTIAL 50' NEUSE RIVER BUFFER (STREAMS/WETLANDS ARE SUBJECT TO CHANGE BASED ON USACE CONCURRENCE AT TIME OF PERMIT) COLLECTOR ROAD CONNECTION	PROPOSED ZONING CONDITIONS The following uses shall be prohibited: a. Commercial Parking b. Flex Industrial c. Fulfillment Center Developer shall dedicate approximately 2.5 acres of land as Town park land as indicated on the concept plan accompanying this rezoning application. Developer shall convey the land to the Town at the time of recording of the final plat for the phase that contains the park land. All unimproved, dedicated park lands shall be deemed active open space that may be used to fulfill the development's active open space requirements under the LDO. Though not required, any improvements contributed to the active park will be included in a separate Development Agreement and such costs shall be identified in a cost estimate as part of the Development Agreement for equal active open space credit, as accepted by the Town Council. The proposed residential subdivision will include a maximum of 300 single-family and townhome units, at an overall density of 4 units per acre.
18	WAIT AVENUE OF PUBLIC RWY 98 BM 2000 PG 793 110 110 110 110 110 110 110 110 110 11	
ALISH INTERIOR PARKS OF PRINTED BY ME AND TO HE DESCRATED PROPOSED LAND DESCRATION TO TOWN OF ROSENLE FOR TOWN PANK - 22 8 AC	22.8	MERCIAL 34 AC 669 SF SIDEPATH SI
174 L75 L76 L77 L78 L79 L80 L81 L82 183 184 185 L79 L80 L81 L82 184 185 L79 L80 L81 L82 185 L80 L81 L82 185 L80 L81 L82 186 L81 L82 187 L83 L83 188 L83 L83 188 L83 L83 L83 188 L83 L83 L83 188 L83 L83 L83 L83 188 L84 L85	KAVA 60'	EX. 38' E-E L30 L31 L32 L33 L34 33 ANAUGH ROAD PUBLIC RW 2022 PG 1238





LEGEND:

RESIDENTIAL SINGLE FAMILY

AT TIME OF PERMIT)

AT TIME OF PERMIT)

S&EC BUFFERS/WETLANDS

POTENTIALLY JURISDICTIONAL POND

(STREAMS/WETLANDS ARE SUBJECT TO

(STREAMS/WETLANDS ARE SUBJECT TO

POTENTIALLY JURISDICTIONAL WETLAND

CHANGE BASED ON USACE CONCURRENCE

CHANGE BASED ON USACE CONCURRENCE

COMMERCIAL



POST R/W

RESERVATION

75.832

2.457

<u>22.834</u>

101.123

25.01%

25.291 AC

GROSS

77.518 AC

3.049 AC

25.050 AC

105.617 AC

NC-CZ RE-ZONED AREAS

TOTAL AREA TO BE REZONED

TOTAL COMMERCIAL AREA

COMMERCIAL PERCENTAGE

RESIDENTIAL AREA

COMMERCIAL AREA

COMMERCIAL AREA



2524 Reliance Avenue Apex, North Carolina 27539 Phone: 919.577.1080 info@batemancivilsurvey.com

DATE: May 21, 2025

RE: Wait Ave Rezoning Neighborhood Meeting 05/20/25— Meeting Minutes

Notes:

Ardent Building, LLC formally held a meeting with neighbors adjacent to the property of the proposed rezoning, REZ-24-05. Meeting Notes are below:

- The Meeting was held at the Rolesville Community Center (514 Southtown Circle) and virtually via Microsoft Teams on May 20, 2025 at 6pm.
- Each Member on behalf of Ardent Building were introduced, which included: Paul (Corey)
 Schmidt, (Ardent Building/ExperienceOne Homes), David Schmidt (Ardent
 Building/ExperienceOne Homes), Timothy Grissinger (Bateman Civil Survey Company), Shelbey
 Daniel (Bateman Civil Survey Company).
- There were 5 in person attendees and 5 virtual attendees.
- The development team discussed that the requested rezoning was to revise the zoning district to NC-CZ and referenced the submitted site plan for the project that was on display to show areas of residential and commercial. It was noted that the rezoning case was in review with the Town of Rolesville, and that the project aligns with the current land use plan.
- Neighbors from Carrie May Lane proposed questions about why the project was being rezoned
 and referenced previously approved PUD. The development team explained that a different
 entity did that plan to include a school, but that the school has chosen another location within
 the area. Neighbors included many questions into where the school was going and how traffic
 will be handled with the school.
- Neighbors from Carrie May Lane expressed concerns about traffic on Wait Avenue/98. The development team discussed that a traffic impact analysis is underway to help determine what improvements will be necessary for Wait/98. Neighbors from Carrie May Lane expressed interest in the addition of a traffic light at their intersection to help enter and exit their neighborhood, and that they currently wait quite a while to leave their neighborhood. The development team discussed the required improvements to the Averette/Wait that is required with the Elizabeth Springs subdivision and that the TIA will provide more info to what improvements will be needed for the subject property.
- Neighbors from Carrie May Lane requested clarity on how many entrances/exits the property
 would have and expressed concerns about whether the entrance across from Carrie May would
 be the only ones in and out. The development team explained that the ones on the map would
 be the main egress points but that there would likely be smaller private entrances and exits
 within the commercial development areas.
- Neighbors from Carrie May proposed questions about the amount of single-family homes and type of commercial properties. The development team discussed that the site plan will be finalized later, and at this time it would likely be up to 300 homes with a mix of single-family homes and townhomes and that the exact locations of the homes will be determined by the site plan following more design work and environmental analysis. The development team also mentions the desire to bring in a grocer as a part of the commercial area, but that a grocery store might be hard to acquire given the quantity of homes in the area.

- Neighbors from Carrie May expressed concern over whether multi-family homes would be included in the residential areas. The development team explained that the plan is only for single-family homes and townhomes. The neighbors expressed concern over the architectural design for the homes. The development team mentioned that there could potentially be architectural restrictions on what could be built here, but that they intended to provide homes with architectural interest, similar to other projects the team has developed.
- Neighbors from Winter Springs Dr proposed questions on when the development team would be required to start building commercial properties. The development team mentions that it is currently 50% of the building permits before 50% of the commercial SF must be permitted, but that they are attempting to revise this to 75% of homes permitted prior to having to start commercial development. Neighbors from Winter Springs express concerns about the type of commercial and bring up the self-storage center on the project. The development team mentions that nothing is locked in at the time, but the desire is to do indoor self-storage.
- Neighbors from Winter Springs question the timeline of the project. The development team mention that the ideal timeline would be to begin construction in Spring 2026.
- Neighbors from Kavanaugh Road propose questions about whether there will be a privacy wall
 along the back of the properties on Kavanagaugh that would have commercial behind their
 property line. The development team explains that a wall likely wouldn't be required, but there
 will be a landscaping buffer requirement for this area. The neighbors question when this
 landscape buffer would be required to be constructed. The development team mentions that
 there isn't a timeline as far as they are aware, but that they intend to build it early in the process
 of commercial construction.
- The Kavanaugh neighbors express concerns about the commercial going behind their homes, and that they would prefer it to remain residential, and question what can be done to stop the rezoning. The development team provides information for them to reach out to the Town Staff and Boards with their concerns.
- Neighbors from Winter Springs ask about connectivity to Elizabeth Springs, and if the residents of the proposed development would be able to use Elizabeth Springs Amenities. The development team explains that the proposed development would have its own Amenity, and would not have access to the Elizabeth Springs Amenities. The team also mentioned that as of right now the intention for connectivity would be no access on Classical Way, but to provide access into the proposed development on Gemstone Way. The development team also mentions the intention to dedicate town park land within the development.
- A neighbor from Kavanaugh propose questions about the price points of the proposed homes. The development team explains that the prices have not been finalized but they're assuming \$350k+ for townhomes and \$450+ for single-family homes.
- A neighbor from Carrie May Lane proposes questions on the size of the single family and townhome projects. The development team explains that the sizes are not set in stone but they're assuming 1400-1500 SF for townhomes and 1600+ SF for single-family homes. The neighbors question lot sizes and setbacks. The development team explains that the proposed lot sizes and setback will be determined at plan design following a rezoning approval, but mention the minimum standards for the NC district.
- Neighbors from Kavanaugh question whether another meeting will be held as the project develops. The development team mentions that another meeting will not be required, but that the project info will be available on Rolesville's website following rezoning approval and plan submission.
- Neighbors from Carrie May question how many sidewalks will be provided in the community.
 The development team explains that the sidewalks will be designed and permitted with site
 plans, but that they typically provide sidewalks on both sides of the street in their other
 developments.

- Neighbors from Kavanaugh bring up traffic regarding the Thales Academy project. The development team explains that they will likely be required to provide traffic improvements precautions for carpool but that it is a separate project. The team mentions that they plan to coordinate with the Thales Academy project on traffic improvements.
- The sign-in sheet for the meeting has been attached as an exhibit to this document.



2524 Reliance Avenue Apex, North Carolina 27539 Phone: 919.577.1080 info@batemancivilsurvey.com

May 20, 2025 DATE:

Wait Ave Rezoning – Meeting Sign-In Project Address RE:

Meeting Purpose: Neighborhood Meeting

Name	Address	Email or Phone			
Elizabeth Harley Meange awrenn MAN IEETE Christian Onderka	1400 Carrie May Lane WF	ehenley@uc.rr.com			
Leage airen	1400 Carrie May Lane WF 1408 Carrie May LATIE	J			
MAN LEETE	109 KAVAWAVCH RD	SOLD@MANLEETE.COM			
Christian Onderka	109 KAVAWAVEH ED 6561 Winder Spring Dr	chrond 001 agmail.com			
	•	V			
	Virtual Attendees				
Will Apps	108 Kavanangh kd				
Will Apps Cara & Chuck Dequaine	1300 Rose Finan Circle				
Ortals	128 Kavanaugh				
Hi	no into provided				
Kim	no info provided				
	5 % 1				



TRAFFIC IMPACT ANALYSIS

FOR

WAIT AVENUE MIXED-USE

LOCATED

IN

ROLESVILLE, NC

Prepared For:

TOWN OF ROLESVILLE P.O. BOX 250 502 SOUTHTOWN CIRCLE ROLESVILLE, NC 27571

August 2025

DRMP Project No. 2500158

Prepared By: <u>LK</u>

Reviewed By: CC



TRAFFIC IMPACT ANALYSIS

FOR

WAIT AVENUE MIXED-USE

LOCATED IN

ROLESVILLE, NC



Prepared For:

TOWN OF ROLESVILLE

P.O. BOX 250

502 SOUTHTOWN CIRCLE

ROLESVILLE, NC 27571

Prepared By:

DRMP, Inc.

License #F-1524

TRAFFIC IMPACT ANALYSIS WAIT AVENUE MIXED-USE

Rolesville, North Carolina

EXECUTIVE SUMMARY

1. Development Overview

A Traffic Impact Analysis (TIA) was conducted for the proposed Wait Avenue Mixed-Use development in accordance with the Rolesville (Town) Unified Development Ordinance (UDO) and North Carolina Department of Transportation (NCDOT) capacity analysis guidelines. The proposed Wait Avenue Mixed-Use development to be located Rolesville, North Carolina. The proposed development, anticipated to be completed in 2031, is assumed to consist of the following land uses:

- 300 DU Single-Family Detached Housing
- 107,049 SF Mini-Warehouse
- 51,000 SF Supermarket
- 23,700 SF Strip Retail Plaza
- 2,500 SF Coffee/Donut Shop with Drive-Through Window
- 2,400 SF Drive-in Bank
- 2 Fast Casual Restaurants at 2,500 SF each
- 5,000 SF Convenience Store/Gas Station w/12 fueling positions

Site access is proposed via four driveways along Wait Avenue (NC 98), one full movement driveway along Averette Road, and one site access is proposed via the existing Austin Ridge Parkway.

2. Existing Traffic Conditions

The study area for the TIA was determined through coordination with the NCDOT and the Town and consists of the following existing intersections:

- Wait Avenue and Averette Road (Signalized)
- Wait Avenue and Austin View Road (Unsignalized)
- Wait Avenue and Carrie May Lane (Unsignalized)
- Averette Road and Old Pearce Road (Unsignalized)
- Averette Road and Kavanaugh Road (Unsignalized)



Existing peak hour traffic volumes were determined based on traffic counts conducted at the study intersection listed above, in May of 2025 by DRMP during a typical weekday AM (7:00 AM – 9:00 AM) and PM (4:00 PM – 6:00 PM) peak periods. Traffic volumes were balanced between study intersections, where appropriate.

3. Future Traffic Conditions

Through coordination with the NCDOT and the Town, it was determined that an annual growth rate of 2.5% would be used to generate 2031 projected weekday AM and PM peak hour traffic volumes. Based on coordination with NCDOT and the Town, it was determined there were no adjacent developments to consider with this study.

4. Site Trip Generation

Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE Trip Generation Manual, 11.1th Edition. Table E-1 provides a summary of the trip generation potential for the site.

Table E-1: Site Trip Generation

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weekday AM Peak Hour Trips (vph)		Weekday PM Peak Hour Trips (vph)			
			Enter	Exit	Total	Enter	Exit	Total
Mini-Warehouse (151)	107,049 SF	155	6	4	10	8	8	16
Single-Family Detached Housing (210)	300 DU	2,772	51	151	202	176	103	279
Shopping Plaza with Supermarket (821)	84,600 SF	7,924	185	114	299	369	399	768
Convenience Store/Gas Station	12 Fueling Positions (5,000 sq. ft.)	3,502	141	142	283	136	137	273
Total Trips 14,353		383	411	794	689	647	1,336	
Internal Capture (7% AM & 10% PM)		-28	-28	-56	-69	-65	-134	
Total External Trips		355	383	738	620	582	1,202	
Pass-By Trips		-143	-143	-286	-220	-220	-440	
Primary Trips		212	240	452	400	362	762	



To estimate traffic conditions with the site fully built-out, the total site trips were added to the 2031 no-build traffic volumes to determine the 2031 build traffic volumes. The study analyzes traffic conditions during the weekday AM and PM peak hours for the following scenarios:

- 2025 Existing Traffic Conditions
- 2031 No-Build Traffic Conditions
- 2031 Build Traffic Conditions Scenario 1 (without Median)
- 2031 Build Traffic Conditions Scenario 2 (with Median)

5. Capacity Analysis Summary

The analysis considered weekday AM and PM peak hour traffic for 2025 existing, 2032 nobuild, and 2032 build conditions. Refer to Section 7 of the TIA for the capacity analysis summary performed at each study intersection.

6. Recommendations

Based on the findings of this study, specific geometric and traffic control improvements have been identified at study intersections. The improvements are summarized below and are illustrated in Figure E-1.

Wait Avenue and Averette Road

- Construct a westbound right-turn lane on Wait Avenue with 100 feet of storage and appropriate taper.
- Construct a northbound left-turn Lane on Averette Road with 300 feet of storage and appropriate taper.

Wait Avenue and Carrie May Lane/Access B

- Construct Site Access B (northbound approach) with one ingress and one egress lane.
- Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.
- Construct a westbound Wait Avenue left turn lane with 125 feet of storage and appropriate taper length. (Under Scenario-1).
- Construct a westbound Wait Avenue left turn lane with 350 feet of storage and appropriate taper length. (Under Scenario-2)



Install a traffic Signal.

Averette Road and Old Pearce Road/Access E

- Construct Site Access E (westbound approach) as a with one ingress and one egress lane.
- Construct a northbound Averette Road left turn lane with 100 feet of storage and appropriate taper length.
- Construct a southbound Averette Road right turn lane with 75 feet of storage and appropriate taper length.
- Provide stop control for the westbound approach.

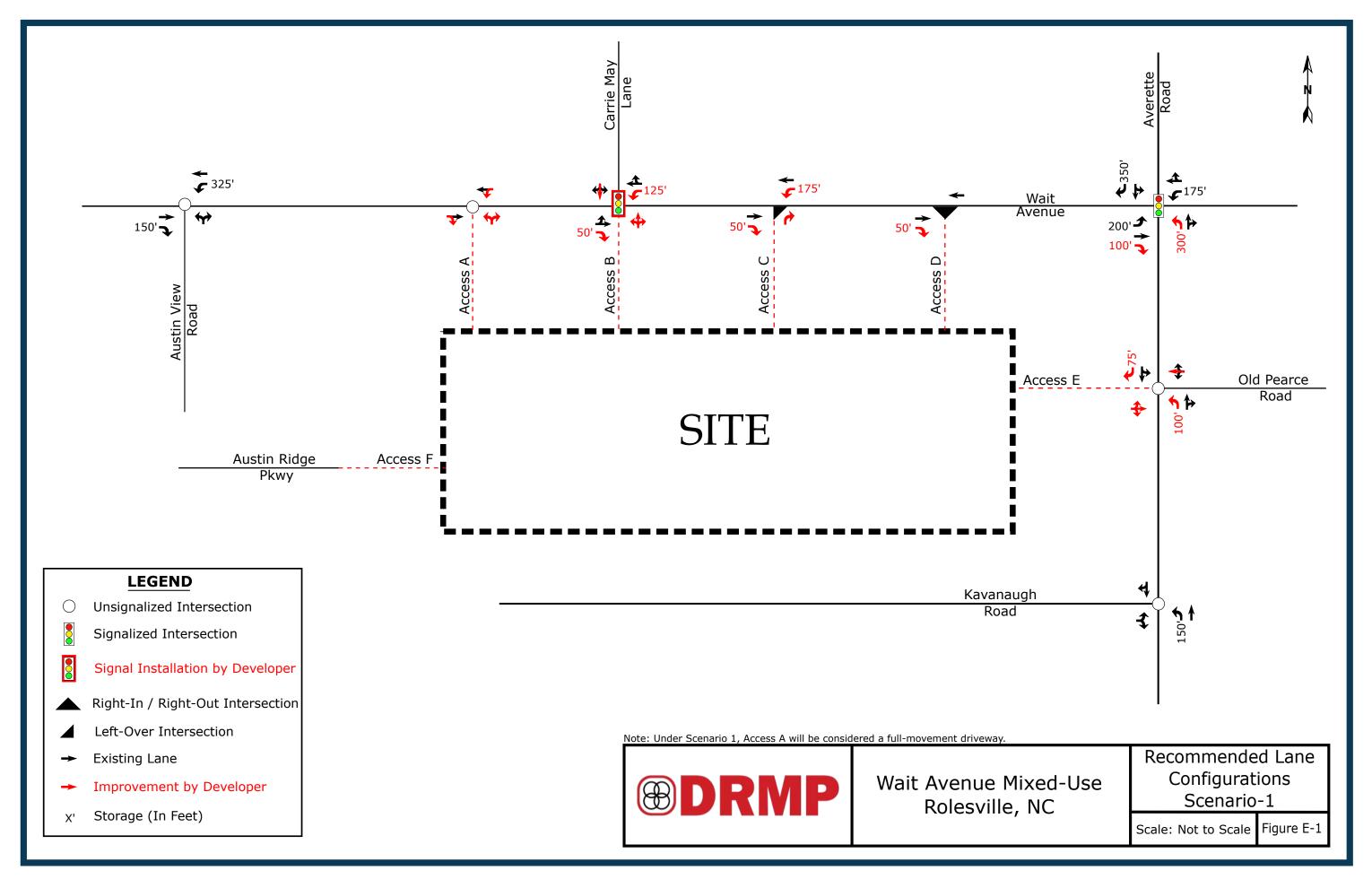
Wait Avenue and Access C

- Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.
- Construct a westbound Wait Avenue left turn lane with 175 feet of storage and appropriate taper length (Under Scenario-1).

Wait Avenue and Access D

• Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.





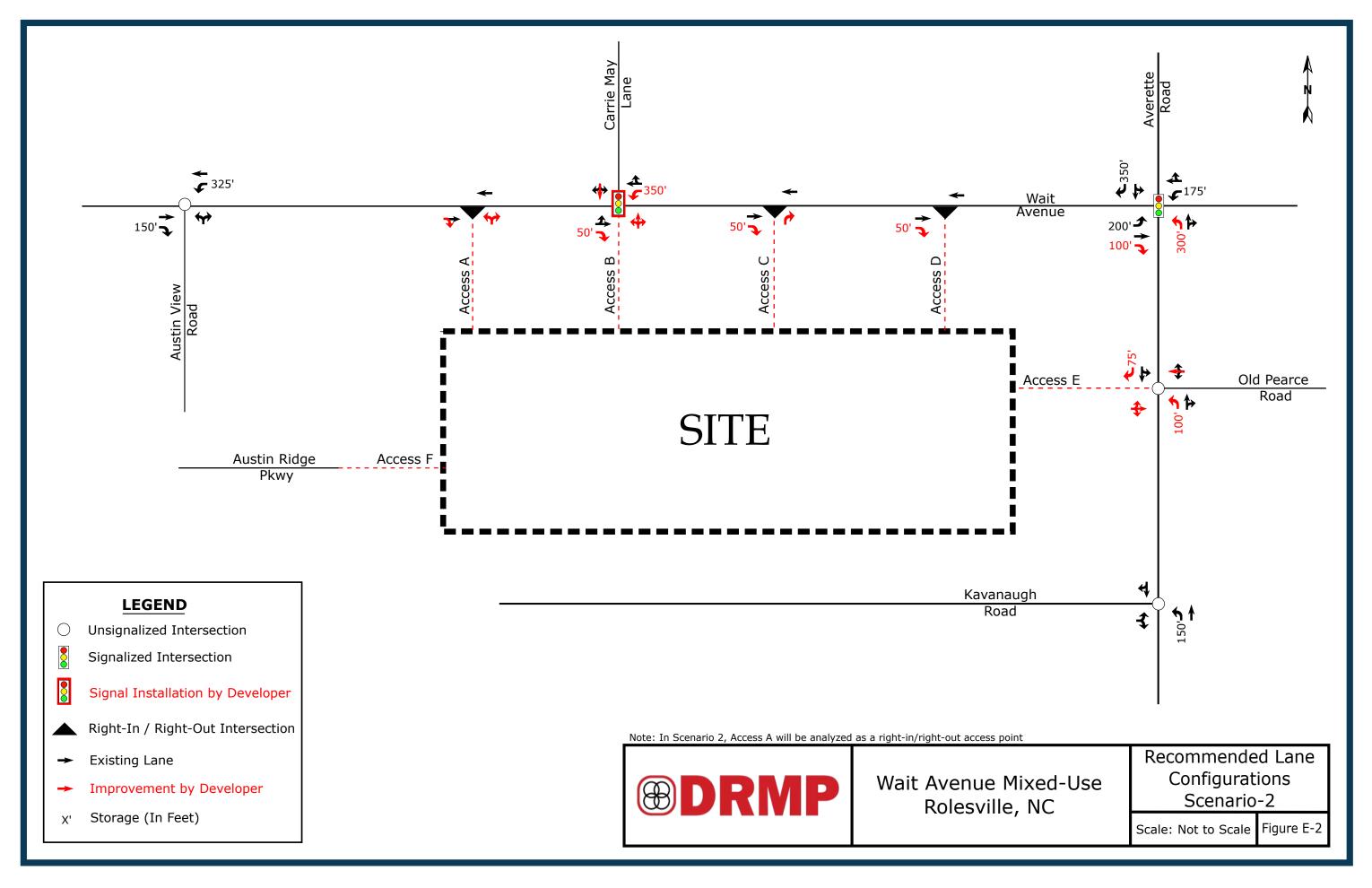


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Appendix A: Scoping Documentation

Appendix B: Traffic Counts

Appendix C: Signal Plans

Appendix D: Capacity Calculations – Wait Avenue and Averette Road

Appendix E: Capacity Calculations – Wait Avenue and Carrie May Lane/Access B

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Appendix G: Capacity Calculations – Averette Road and Old Pearce Road

Appendix H: Capacity Calculations – Averette Road and Kayanayah Road

Appendix H: Capacity Calculations – Averette Road and Kavanaugh Road

Appendix I: Capacity Calculations – Wait Avenue and Access A

Appendix J: Capacity Calculations – Wait Avenue and Access C
Appendix K: Capacity Calculations – Wait Avenue and Access D

SimTraffic Queueing Analysis



Appendix L:

TRAFFIC IMPACT ANALYSIS

WAIT AVENUE MIXED-USE Rolesville, North Carolina

1. INTRODUCTION

The contents of this report present the findings of the Traffic Impact Analysis (TIA) conducted for the proposed Wait Avenue Mixed-Use development to be located Rolesville, North Carolina. The purpose of this study is to determine the potential impacts to the surrounding transportation system created by traffic generated by the proposed development, as well as recommend improvements to mitigate the impacts.

The proposed development, anticipated to be completed in 2031, is assumed to consist of the following uses:

- 300 DU Single-Family Detached Housing
- 107,049 SF Mini-Warehouse
- 51,000 SF Supermarket
- 23,700 SF Strip Retail Plaza
- 2,500 SF Coffee/Donut Shop with Drive-Through Window
- 2,400 SF Drive-in Bank
- 2 Fast Casual Restaurants at 2,500 SF each
- 5,000 SF Convenience Store/Gas Station w/12 fueling positions

The study analyzes traffic conditions during the weekday AM and PM peak hours for the following scenarios:

- 2025 Existing Traffic Conditions
- 2031 No-Build Traffic Conditions
- 2031 Build Traffic Conditions Scenario 1 (without Median)
- 2031 Build Traffic Conditions Scenario 2 (with Median)

1.1. Site Location and Study Area

The development is proposed to be located Rolesville, North Carolina. Refer to Figure 1 for the site location map.

The study area for the TIA was determined through coordination with the North Carolina Department of Transportation (NCDOT) and the Rolesville (Town) and consists of the following existing intersections:

- Wait Avenue and Averette Road (Signalized)
- Wait Avenue and Austin View Road (Unsignalized)
- Wait Avenue and Carrie May Lane (Unsignalized)
- Averette Road and Old Pearce Road (Unsignalized)
- Averette Road and Kavanaugh Road (Unsignalized)

1.2. Proposed Land Use and Site Access

The proposed development, anticipated to be completed in 2031, is assumed to consist of the following uses:

- 300 Single-Family Detached Housing
- 107,049 SF Mini-Warehouse
- 51,000 SF Supermarket
- 23,700 SF Strip Retail Plaza
- 2,500 SF Coffee/Donut Shop with Drive-Through Window
- 2,400 SF Drive-in Bank
- 2 Fast Casual Restaurants at 2,500 SF
- 5,000 SF Convenience Store/Gas Station

Site access is proposed via four driveways along Wait Avenue (NC 98), one full movement driveway along Averette Road, and one site access is proposed via the existing Austin Ridge Parkway. Refer to Figure 2 for a copy of the preliminary site plan.

1.3. Adjacent Land Uses

The proposed development is located in an area consisting primarily of undeveloped land, and residential development.

1.4. Existing Roadways

Existing lane configurations (number of traffic lanes on each intersection approach), speed limits, storage capacities, and other intersection and roadway information within the study area are shown in Figure 3. Table 1 provides a summary of this information, as well.



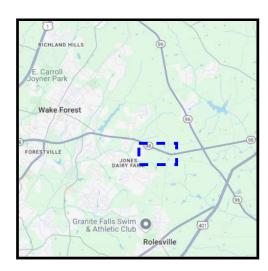
Table 1: Existing Roadway Inventory

Road Name	Route Number	Typical Cross Section	Speed Limit	AADT (vpd)
Averette Road	SR 1945	2-lane undivided	45 mph	3,600*
Wait Avenue	NC 98	2-lane undivided	45 mph	19,500**

^{*} ADT based on the traffic counts from 2021



^{**}ADT based on the traffic counts from 2023 and assuming the weekday PM peak hour volume is 10% of the average daily traffic.





LEGEND



Study Intersection Proposed Site Access

Study Area

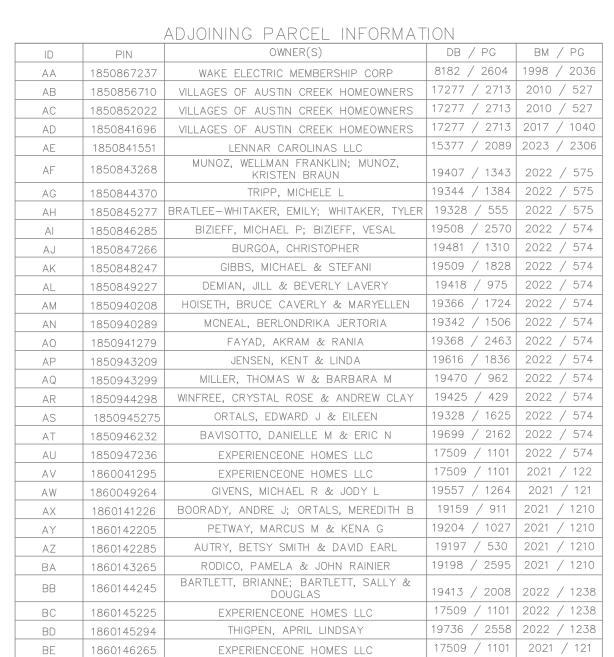




Wait Avenue Mixed-Use Rolesville, NC

Site Location Map

Scale: Not to Scale | Figure 1



			_			
	RESIDENTIAL LINE TABLE				RESIDEN	
LINE #	LENGTH	DIRECTION		LINE #	LENGTH	DIRECTION
L1	273.29'	N21° 35' 45"E		L21	35.70'	S 05° 25′ 37″E
L2	288.95'	N68° 25' 12"W		L22	53.96'	S 35° 40' 08"W
L3	485.08'	N68° 36' 29"W		L23	31.53'	S 20° 09' 38"W
L4	56.53'	N68° 30' 35"W		L24	35.88'	S 56° 19' 27"W
L5	442.49'	N68° 23' 19"W		L25	82.48'	S15° 56' 39"W
L6	62.94'	N66° 45' 05"W		L26	47.18'	S 54° 15′ 58″E
L7	493.27'	S 66° 17' 31"W		L27	86.56'	S03° 11' 49"E
L8	120.37'	S 66° 17' 31"W		L28	47.68'	S 27° 21' 06"E
L9	139.83'	S 29° 02' 26"W		L29	29.73'	S15° 39' 43"W
L10	62.39'	S 27° 04' 26"W		L30	12.33'	S 44° 18' 30"W
L11	85.05'	S 22° 30′ 36″E		L31	325.02'	S02° 18' 54"E
L12	82.65'	S 35° 17' 49"W		L32	92.70'	S 89° 08' 31"E
L13	77.79'	S 66° 41' 13"W		L33	398.59'	S 89° 22' 03"E
L14	119.64'	S 30° 41' 32"W		L34	80.37'	S 89° 22' 03"E
L15	48.52'	S 70° 24' 48"W		L35	80.29'	S 89° 22' 03"E
L16	58.77'	S07° 59' 45"W		L36	265.88'	S 89° 22' 03"E
L17	84.46'	S 38° 16' 44"W		L37	50.09'	S 89° 29′ 05″E
L18	44.78'	S19° 10' 58"W		L38	202.94'	S 89° 21' 30"E
L19	26.68'	S76° 49' 28"W		L39	225.20'	S 89° 21' 30"E
L20	63.59'	S27° 16' 11"W		L40	77.18'	S 89° 21' 30"E

	COMMER				
LINE TABLE					
LINE #	INE # LENGTH DIRECTION				
L46	196.54'	NO5° 20' 11"E			
L47	133.48'	N69° 23' 18"W			
L48	248.70'	N68° 22' 23"W			
L49	182.39'	N68° 12' 44"W			
L50	200.40'	N68° 31' 07"W			
L51	308.80'	N68° 30' 12"W			
L52	210.04'	N68° 26' 44"W			
L53	273.29'	S 21° 35′ 45″W			
L54	464.36'	S 67° 51' 27"E			
L55	28.27'	S 22° 49′ 54″E			
L56	421.22'	S 22° 11' 38"W			
L57	395.14'	S 20° 51' 04"W			
L58	353.08'	S 89° 03' 29"E			
L59	69.22'	S 88° 46′ 48″E			
L60	51.37'	S 89° 20' 02"E			
L61	180.15'	S 89° 03' 25"E			
L62	160.72'	S 89° 04' 00"E			
L63	76.42'	S 88° 46′ 32″E			
L64	79.04'	S 89° 02' 22"E			
L65	74.04'	S 88° 59′ 25″E			

COMMERCIAL LINE TABLE					COMMER LINE TA	
NE#	LENGTH	DIRECTION		LINE #	LENGTH	DIRECTIO
.46	196.54'	NO5° 20' 11"E		L66	50.72'	S88° 59' 20
.47	133.48'	N69° 23' 18"W		L67	82.97'	N00° 26' 49
.48	248.70'	N68° 22' 23"W		L68	135.31'	NO2° 54' 54
49	182.39'	N68° 12' 44"W		L69	80.91'	NO5° 27' 3
50	200.40'	N68° 31' 07"W		L70	124.62'	NO5° 58' 10
_51	308.80'	N68° 30' 12"W		L71	145.41'	NO5° 35' 1:
.52	210.04'	N68° 26' 44"W		L72	241.40'	N64° 34' 13
.53	273.29'	S 21° 35′ 45″W		L73	161.80'	S 40° 39′ 22
.54	464.36'	S 67° 51' 27"E		L74	288.49'	S17° 27' 54
.55	28.27'	S 22° 49′ 54″E		L75	493.27'	N66° 17' 3°
56	421.22'	S 22° 11' 38"W		L76	53.36'	N66° 45' 05
.57	395.14'	S 20° 51' 04"W		L77	181.90'	N65° 41' 26
.58	353.08'	S 89° 03' 29"E	'		-	
.59	69.22'	S88° 46' 48"E				

LINE #	LENGTH	DIRECTION
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L52	210.04'	N68° 26' 44"W
L53	273.29'	S 21° 35′ 45″W
L54	464.36'	S 67° 51' 27"E
L55	28.27'	S 22° 49′ 54″E
L56	421.22'	S 22° 11' 38"W
L57	395.14'	S 20° 51' 04"W
L58	353.08'	S 89° 03' 29"E
L59	69.22'	S 88° 46′ 48″E
L60	51.37'	S 89° 20' 02"E
L61	180.15'	S 89° 03' 25"E
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L63	76.42'	S 88° 46′ 32″E

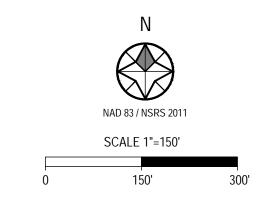
			_			
COMMERCIAL LINE TABLE					COMMER LINE TA	
INE #	LENGTH	DIRECTION		LINE #	LENGTH	DIREC
L46	196.54'	NO5° 20' 11"E		L66	50.72'	S 88° 59
L47	133.48'	N69° 23' 18"W		L67	82.97'	N00° 26
L48	248.70'	N68° 22' 23"W		L68	135.31'	NO2° 54
L49	182.39'	N68° 12' 44"W		L69	80.91'	N05° 27
L50	200.40'	N68° 31' 07"W		L70	124.62'	NO5° 58
L51	308.80'	N68° 30' 12"W		L71	145.41'	N05° 35
L52	210.04'	N68° 26' 44"W		L72	241.40'	N64° 34
L53	273.29'	S 21° 35′ 45″W		L73	161.80'	S 40° 39
L54	464.36'	S67° 51' 27"E		L74	288.49'	S17° 27
L55	28.27'	S 22° 49′ 54″E		L75	493.27'	N66° 17
L56	421.22'	S 22° 11' 38"W		L76	53.36'	N66° 45
L57	395.14'	S 20° 51' 04"W		L77	181.90'	N65° 41
L58	353.08'	S 89° 03′ 29″E				
L59	69.22'	S 88° 46′ 48″E				
L60	51.37'	S 89° 20′ 02″E				
1.04	100 151	0.000 001 0515	l			

	L58	353.08'	S 89° 03′ 29″	E
	L59	69.22'	S 88° 46′ 48″	E
	L60	51.37'	S 89° 20' 02"	E
	L61	180.15'	S 89° 03' 25"	E
	L62	160.72'	S 89° 04' 00"	E
	L63	76.42'	S 88° 46′ 32″	E
	L64	79.04'	S 89° 02' 22"	E
	L65	74.04'	S 88° 59′ 25″	E
REV#		DA	TE	DESCRIPTION
1		01.31	<mark>.2025</mark>	TOR REZ COMMENTS 1: 01.06.2025

	<u>LEGEND:</u>
	RESIDENTIAL SINGLE FAMILY
	OPEN SPACE
	EXISTING WETLANDS UNDISTURBED
	EXISTING ENVIRONMENTAL UNDISTURBE
	COMMERCIAL
5' RESERVED R/W BM 1998 PG 2036	

2.457 AC

70 / 962 2022 / 574	2.457 AC				SOM WENCH TENCENTAGE
70 / 962 2022 / 574 25 / 429 2022 / 574		176			
8 / 1625 2022 / 574	107,049 SF	15			
9 / 2162 2022 / 574					
9 / 2162 2022 / 574 9 / 1101 2022 / 574					
9 / 1101 2021 / 122		15			
7 / 1264 2021 / 121			55' RESERVED ROW		
59 / 911 2021 / 1210					
7 / 1264 2021 / 121 59 / 911 2021 / 1210 4 / 1027 2021 / 1210		14	VEW PROPER ROW 25' ROW RESERVATION		
7 / 530 2021 / 1210 3 / 2595 2021 / 1210			— EX. 25' E-E		
8 / 2595 2021 / 1210			Robert 1		
3 / 2008 2022 / 1238			13 RAY		
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			OPEN SPACE + + + + + + + + + + + + + + + + + + +	T TOWN OF ROLLSVILLE)	
	Jan		4.212 AC 4.212 AC 4.212 AC		
RESIDENTIAL LINE TABLE					
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LINE # LENGTH DIRECTION					
L41 821.67' S89° 05' 43"E		RESIDENTIAL			
L42 395.14' N20° 51' 04"E				RM	
L43 421.22' N22° 11' 38"E		75.832 AC		22 T14 A0	
				23.751 AC	
L44 28.27' N22° 49' 54"W		3,303,252 SF		150	
L45 464.36' N67° 51' 27"W					
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/	3.886 AC				BM BM
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AUSTIN RIDGE PARKWAY 60' PUBLIC R/M BM 2017 PG 1040		* * * * *		001111550111	PLANNED SIDEPATH (BY TOWN OF ROLESVILLE)
1				COMMERCIAL	See The second s
.>				22.834 AC	PLANNED BIKE LANE
				22.034 AC	PLANNED BIKE LANE (BY TOWN OF ROLESVILLE)
				994,669 SF	FY 34' F.F
				77.17007.01	EX. 34' E-E 10' ROW RESERVATION
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		5M 2022 PC RW 3R 1945		KAVANAUGH ROAD 60' PUBLIC R/W BM 2022 PG 1238	
		574		DIVI ZUZZ PO 1Z38	





NC RE-ZONED AREAS POST R/W RESERVATION

RESIDENTIAL AREA

COMMERCIAL AREA

COMMERCIAL AREA

TOTAL AREA TO BE REZONED

TOTAL COMMERCIAL AREA

COMMERCIAL PERCENTAGE

75.832 AC

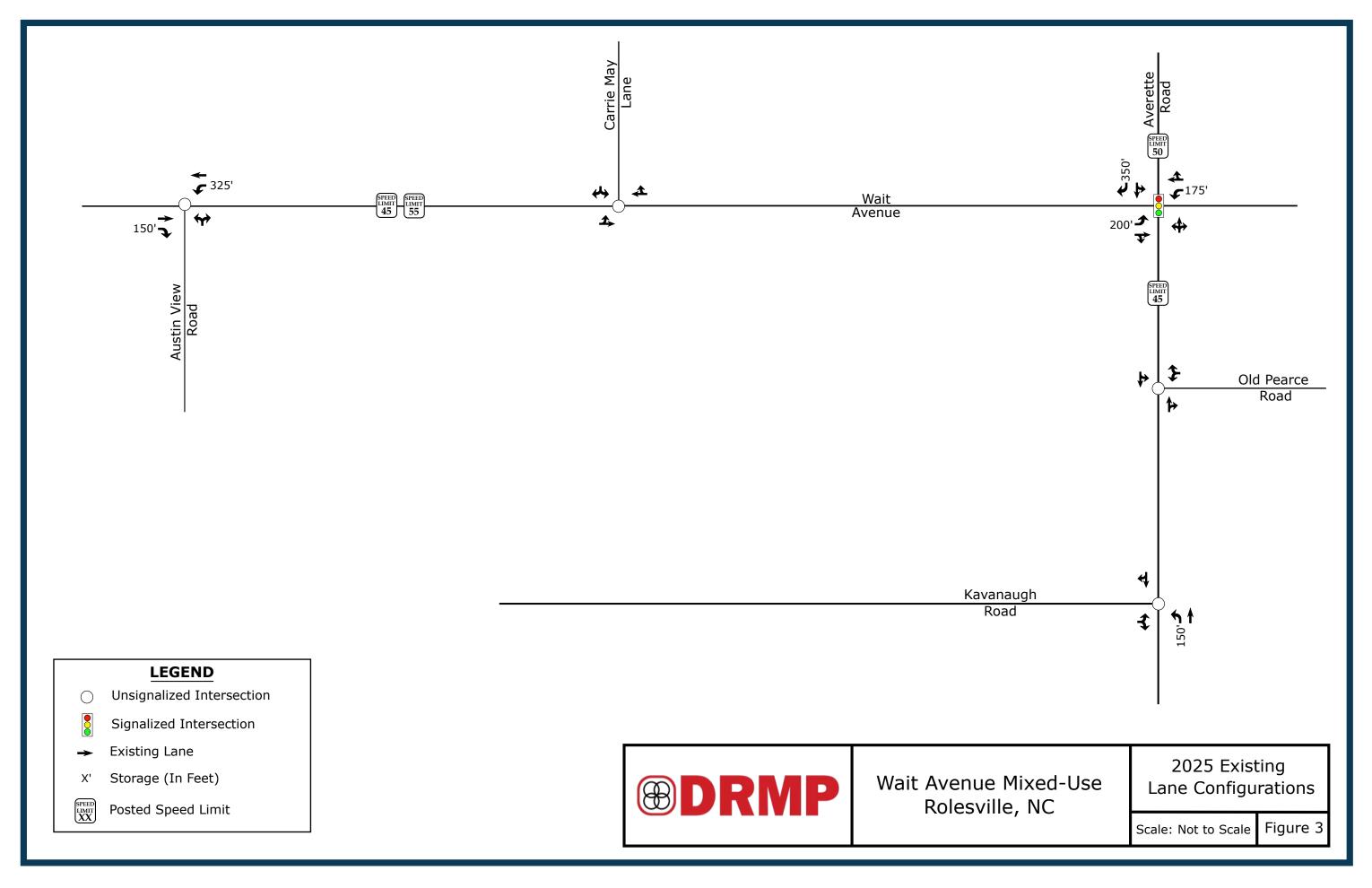
2.457 AC

22.834 AC

101.123 AC

25.291 AC

25.01%



2. 2025 EXISTING PEAK HOUR CONDITIONS

2.1. 2025 Existing Peak Hour Traffic Volumes

Existing peak hour traffic volumes were determined based on traffic counts conducted at the study intersections listed below, in May of 2025 by DRMP during a typical weekday AM (7:00 AM – 9:00 AM) and PM (4:00 PM – 6:00 PM) peak periods while schools were in session:

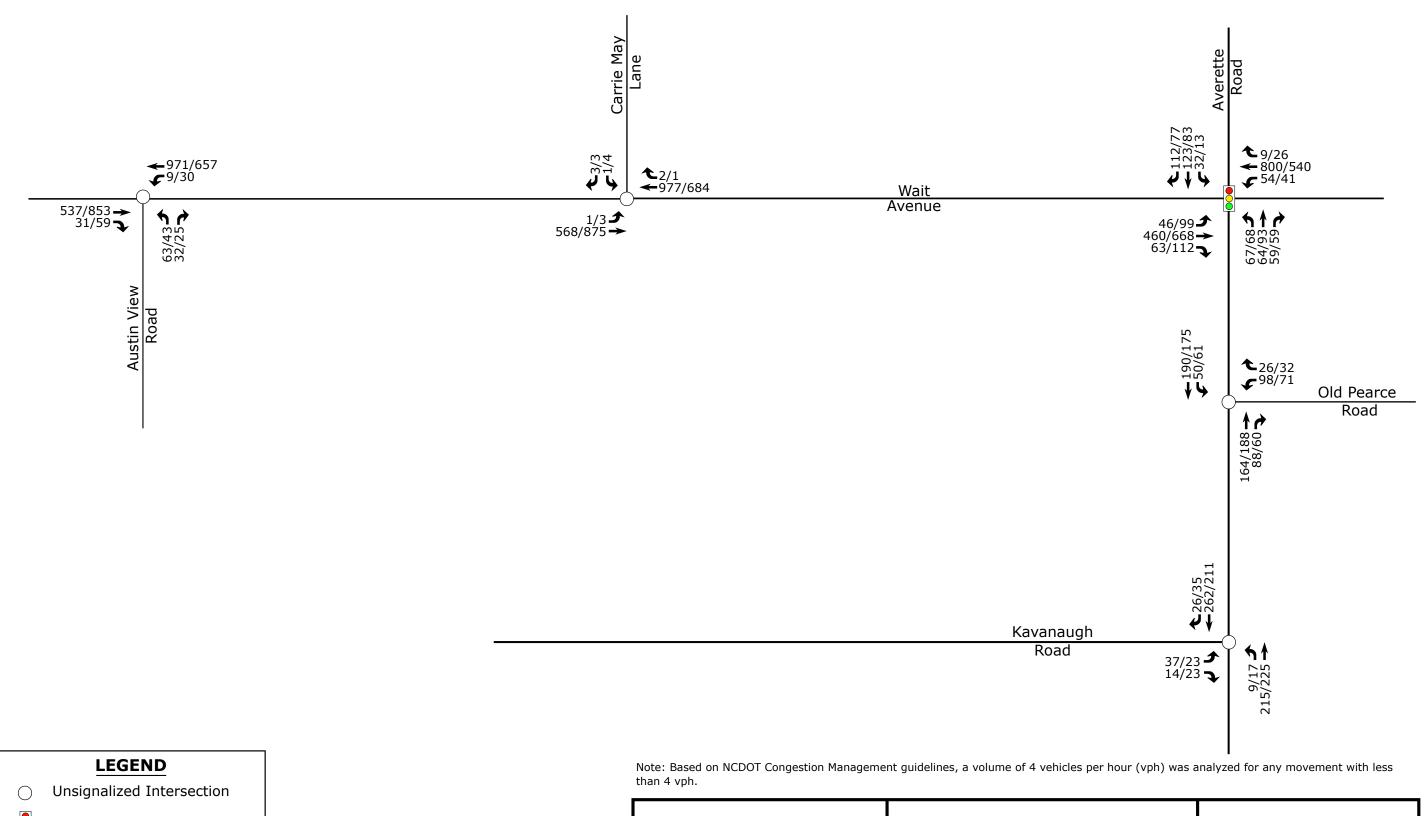
- Wait Avenue and Austin View Road (Signalized)
- Wait Avenue and Averette Road (Unsignalized)
- Averette Road and Old Pearce Road (Unsignalized)
- Averette Road and Kavanaugh Road (Unsignalized)
- Wait Avenue and Carrie May Lane (Unsignalized)

Weekday AM and PM traffic volumes were balanced between study intersections, where appropriate. Refer to Figure 4 for 2025 existing weekday AM and PM peak hour traffic volumes. A copy of the count data is located in Appendix B of this report.

2.2. Analysis of 2025 Existing Peak Hour Traffic Conditions

The 2025 existing weekday AM and PM peak hour traffic volumes were analyzed to determine the current levels of service at the study intersections under existing roadway conditions. Signal information was obtained from NCDOT and is included in Appendix C. The results of the analysis are presented in Section 7 of this report.





Signalized Intersection

Weekday AM / PM Peak Hour $X/Y \rightarrow Traffic$



Wait Avenue Mixed-Use Rolesville, NC

2025 Existing Peak Hour Traffic

Scale: Not to Scale | Figure 4

3. 2031 NO-BUILD PEAK HOUR CONDITIONS

In order to account for growth of traffic and subsequent traffic conditions at a future year, no-build traffic projections are needed. No-build traffic is the component of traffic due to the growth of the community and surrounding area that is anticipated to occur regardless of whether or not the proposed development is constructed. No-build traffic is comprised of existing traffic growth within the study area and additional traffic created as a result of adjacent approved developments.

3.1. Ambient Traffic Growth

Through coordination with the NCDOT and the Town, it was determined that an annual growth rate of 2.5% would be used to generate 2031 No-Build weekday AM and PM peak hour traffic volumes. Refer to Figure 5 for 2031 No-Build peak hour traffic.

3.2. Adjacent Development Traffic

Through coordination with the NCDOT and the Town, it was determined there were no adjacent developments to consider with this study.

3.3. Future Roadway Improvements

Based on coordination with the NCDOT and the Town, it was determined there were no future roadway improvements to consider with this study.

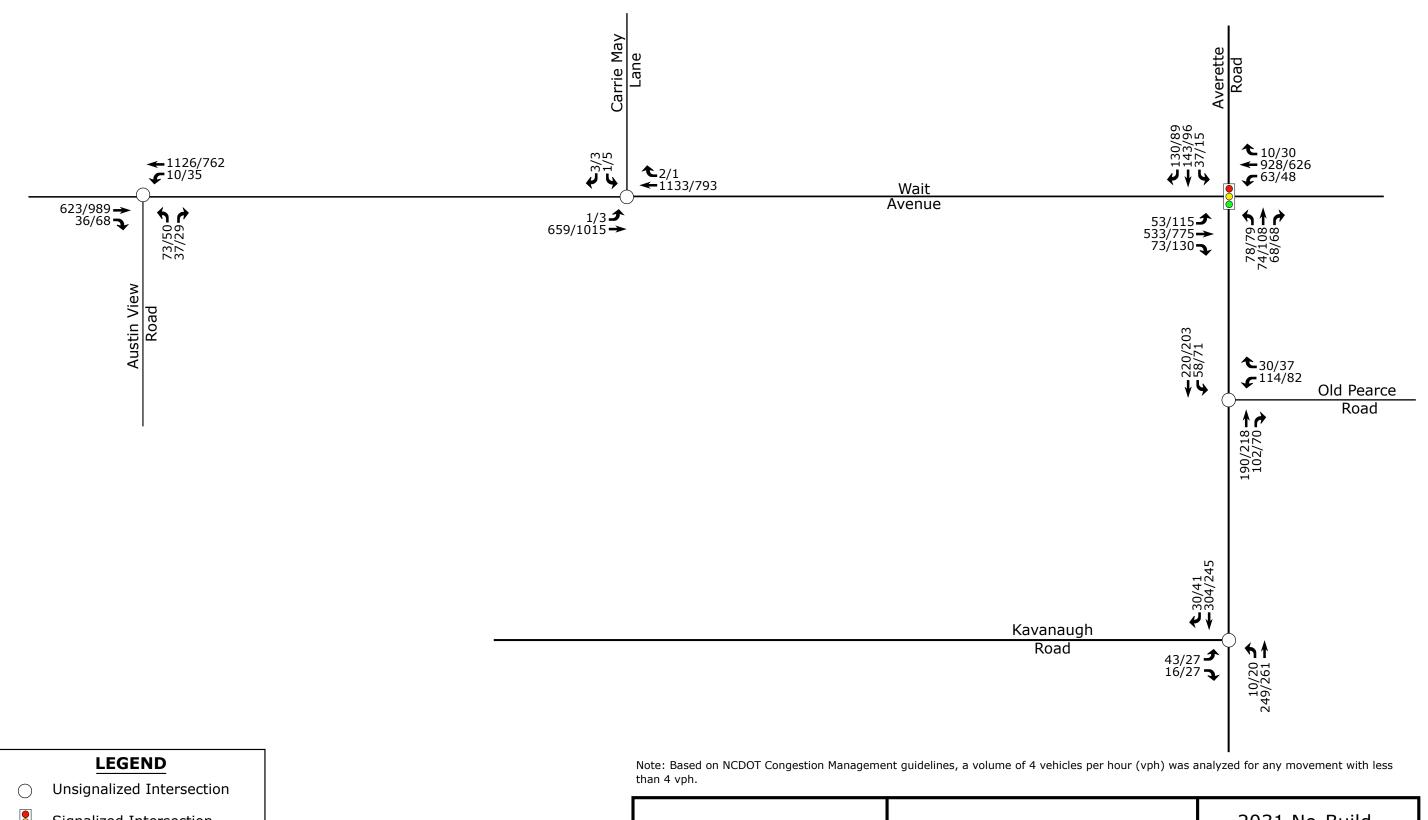
3.4. 2031 No-Build Peak Hour Traffic Volumes

The 2031 no-build traffic volumes were determined by projecting the 2025 existing peak hour traffic to the year 2031. Refer to Figure 5 for an illustration of the 2031 no-build peak hour traffic volumes at the study intersections.

3.5. Analysis of 2031 No-Build Peak Hour Traffic Conditions

The 2031 no-build AM and PM peak hour traffic volumes at the study intersections were analyzed with future geometric roadway conditions and traffic control. The analysis results are presented in Section 7 of this report.





Signalized Intersection

Weekday AM / PM Peak Hour



Wait Avenue Mixed-Use Rolesville, NC

2031 No-Build Peak Hour Traffic

Scale: Not to Scale | Figure 5

4. SITE TRIP GENERATION AND DISTRIBUTION

4.1. Trip Generation

The proposed development is assumed to consist of 300 DU Single-family detached housing, a 107,049 s.f. mini-warehouse, a 51,000 s.f. supermarket, a 23,700 s.f. strip retail plaza, a 2,500 s.f. of coffee/donut shop with drive-through window, a 2,400 s.f. drive-in Bank, a 2 fast casual restaurants at 2,500 s.f. each and 5,000 s.f. convenience store/gas Station w/12 fueling positions. Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE *Trip Generation Manual*, 11.1 Edition. Table 3 provides a summary of the trip generation potential for the site.

Table 3: Trip Generation Summary

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	Weekday AM Peak Hour Trips (vph)			Weekday PM Peak Hour Trips (vph)		
			Enter	Exit	Total	Enter	Exit	Total
Mini-Warehouse (151)	107,049 SF	155	6	4	10	8	8	16
Single-Family Detached Housing (210)	300 DU	2,772	51	151	202	176	103	279
Shopping Plaza with Supermarket (821)	84,600 SF	7,924	185	114	299	369	399	768
Convenience Store/Gas Station	12 Fueling Positions (5,000 sq. ft.)	3,502	141	142	283	136	137	273
Total Trips 14,353		383	411	794	689	647	1,336	
Internal Capture (7% AM & 10% PM)			-28	-28	-56	-69	-65	-134
Total External Trips			355	383	738	620	582	1,202
Pass-By Trips			-143	-143	-286	-220	-220	-440
Primary Trips			212	240	452	400	362	762

It is estimated that the proposed development will generate approximately 14,353 total site trips on the roadway network during a typical 24-hour weekday period. Of the daily traffic volume, it is anticipated that 794 trips (383 entering and 411 exiting) will occur during the weekday AM peak hour and 1,336 trips (689 entering and 647 exiting) will occur during the weekday PM peak hour.



Internal capture of trips between the residential and retail uses was considered in this study. Internal capture is the consideration for trips that will be made within the site between different land uses, so the vehicle technically never leaves the internal site but can still be considered as a trip to that specific land use. Internal capture typically only considers trips between residential, office, and retail/restaurant land uses. Based on NCHRP Report 684 methodology, a weekday AM peak hour internal capture rate of 7% and a weekday PM peak hour internal capture rate of 10% was applied to the total trips. The internal capture reductions are expected to account for approximately 56 trips (28 entering and 28 exiting) during the weekday AM peak hour and 134 trips (69 entering and 65 exiting) during the weekday PM peak hour.

Pass-by trips were also taken into consideration in this study. Pass-by trips are made by the traffic already using the adjacent roadway, entering the site as an intermediate stop on their way to another destination. Pass-by percentages are applied to site trips after adjustments for internal capture. Pass-by trips are expected to account for approximately 286 trips (143 entering and 143 exiting) during the weekday AM peak hour and approximately 440 trips (220 entering and 220 exiting) during the weekday PM peak hour. It should be noted that the pass-by trips were balanced, as it is likely that these trips would enter and exit at the same hour.

The total primary site trips are the calculated site trips after the reduction for internal capture and pass-by trips. Primary site trips are expected to generate approximately 452 trips (212 entering and 240 exiting) during the weekday AM peak hour and 762 trips (400 entering and 362 exiting) during the weekday PM peak hour.

4.2. Site Trip Distribution and Assignment

Trip distribution percentages used in assigning site traffic for this development were estimated based on a combination of existing traffic patterns, population centers adjacent to the study area, and engineering judgment.

It is estimated that the residential site trips will be regionally distributed as follows:

- 35% to/from the north via Averette Road
- 35% to/from the east via Wait Avenue
- 30% to/from the west via Wait Avenue



It is estimated that the primary commercial site trips will be regionally distributed as follows:

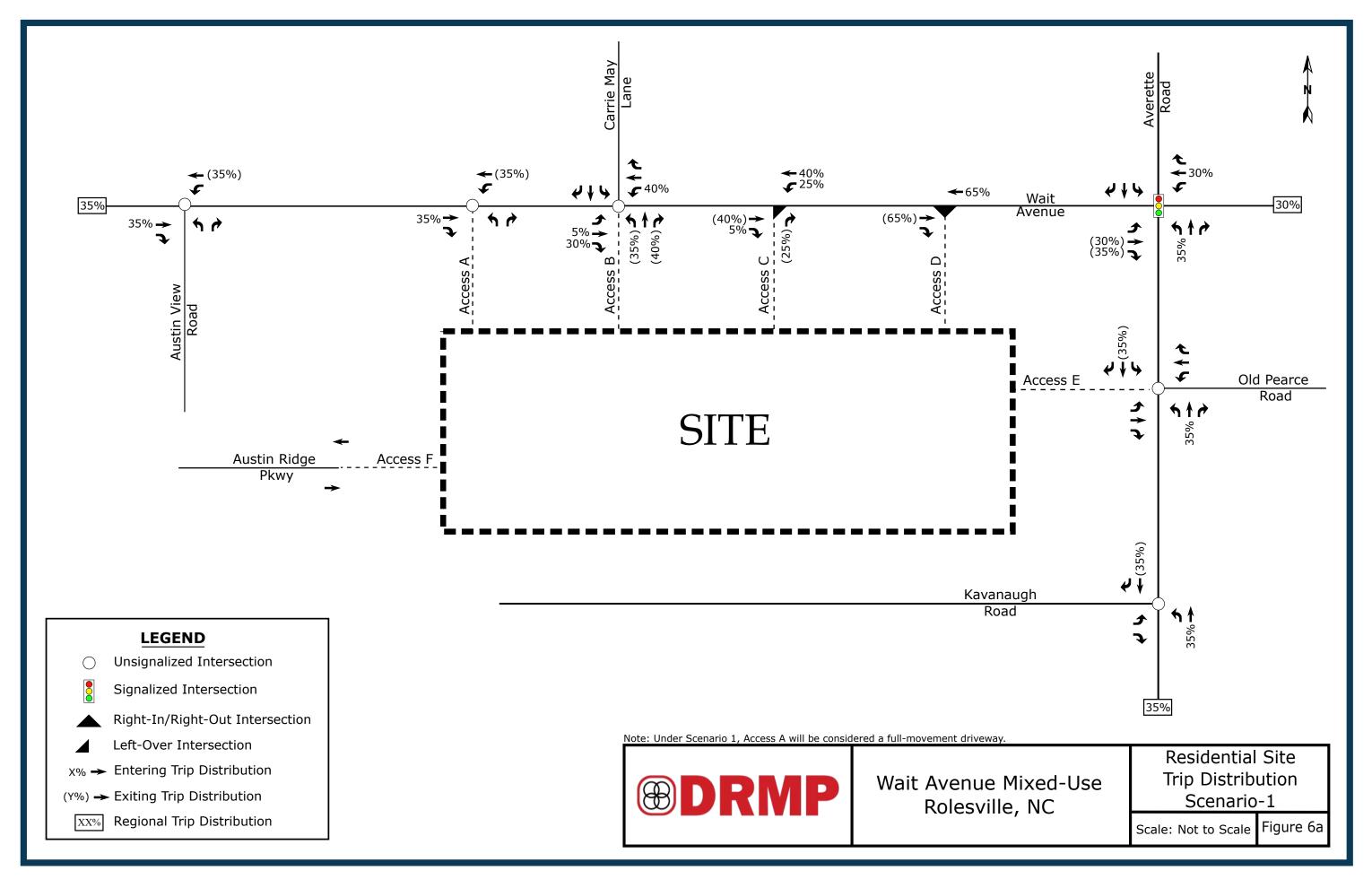
- 40% to/from the north via Averette Road
- 10% to/from the south via Averette Road
- 5% to/from the west via Old Pearce Road
- 35% to/from the east via Wait Avenue
- 5% to/from the west via Wait Avenue

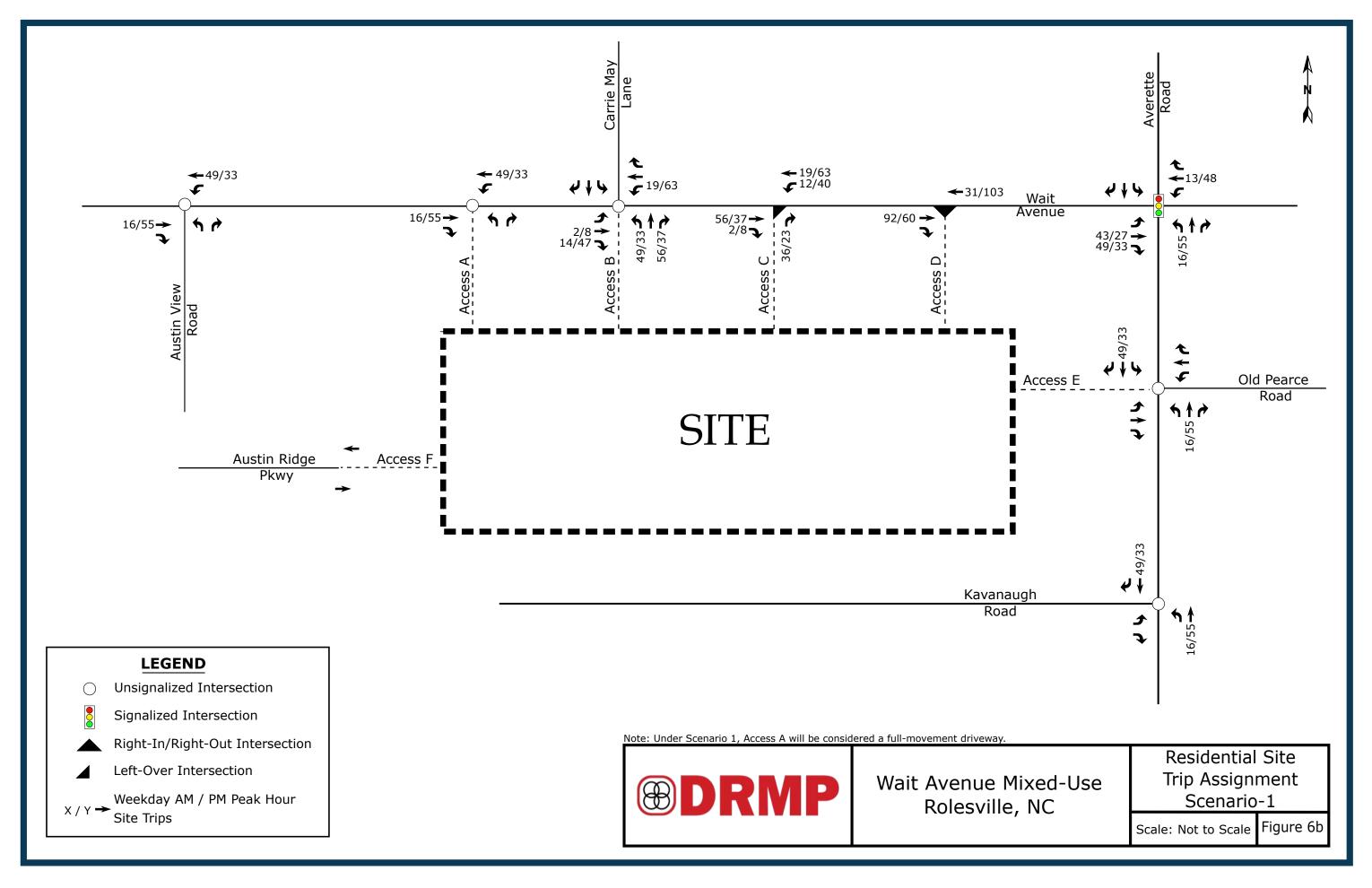
The residential site trip distribution is shown in Figures 6a and 7a for Scenarios 1 and 2, and the primary commercial site trip distribution is shown in Figures 8a and 9a for Scenarios 1 and 2. Refer to Figures 6b and 7b for the residential site trip assignment, and Figures 8b and 9b for the primary commercial site trip assignment for Scenarios 1 and 2.

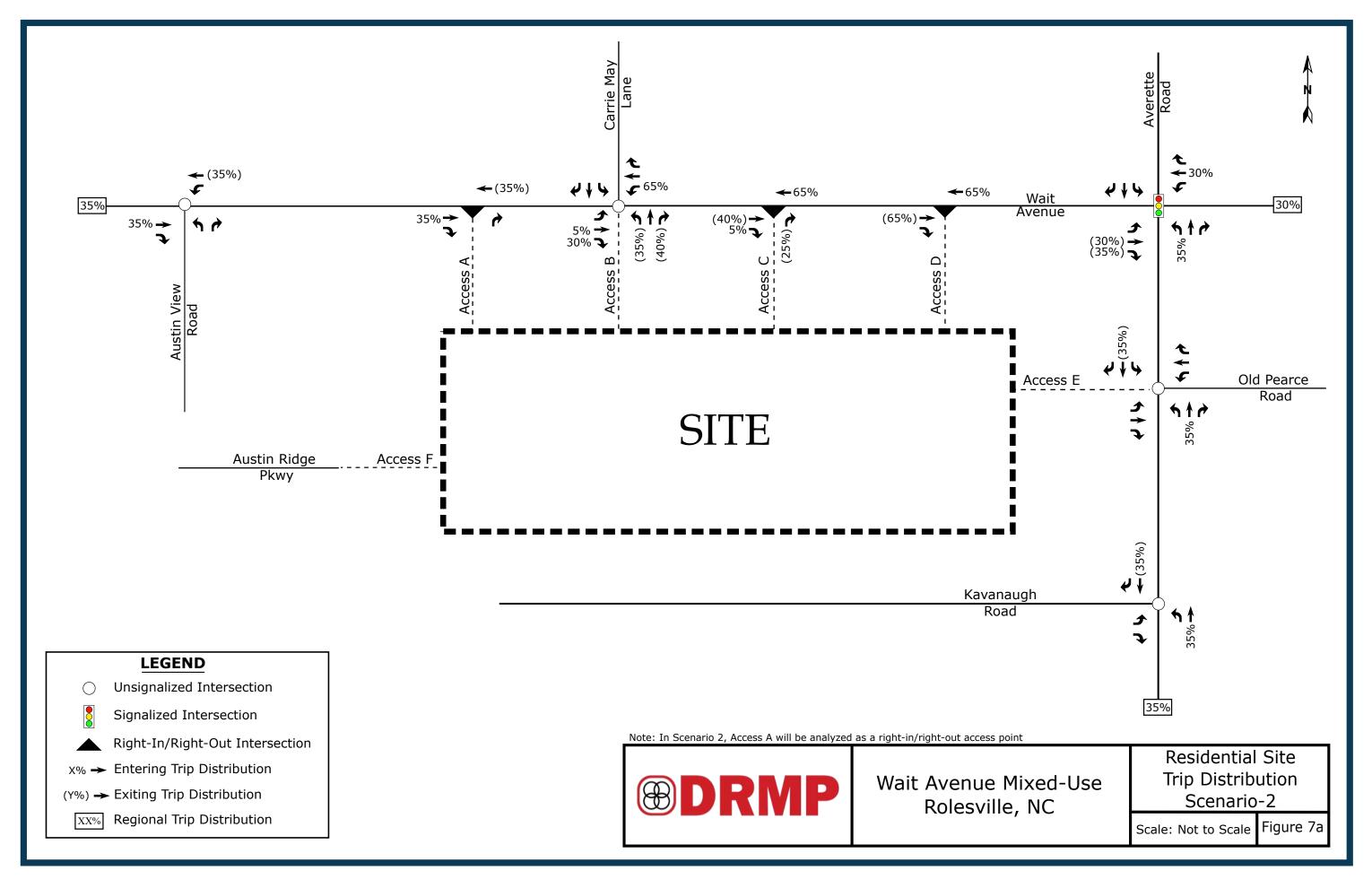
The pass-by site trips were distributed based on existing traffic patterns, with consideration given to the proposed driveway access and site layout. Refer to Figure 10a and 10b for the pass-by site trip distribution. Pass-by site trips are shown in Figure 11a and 11b.

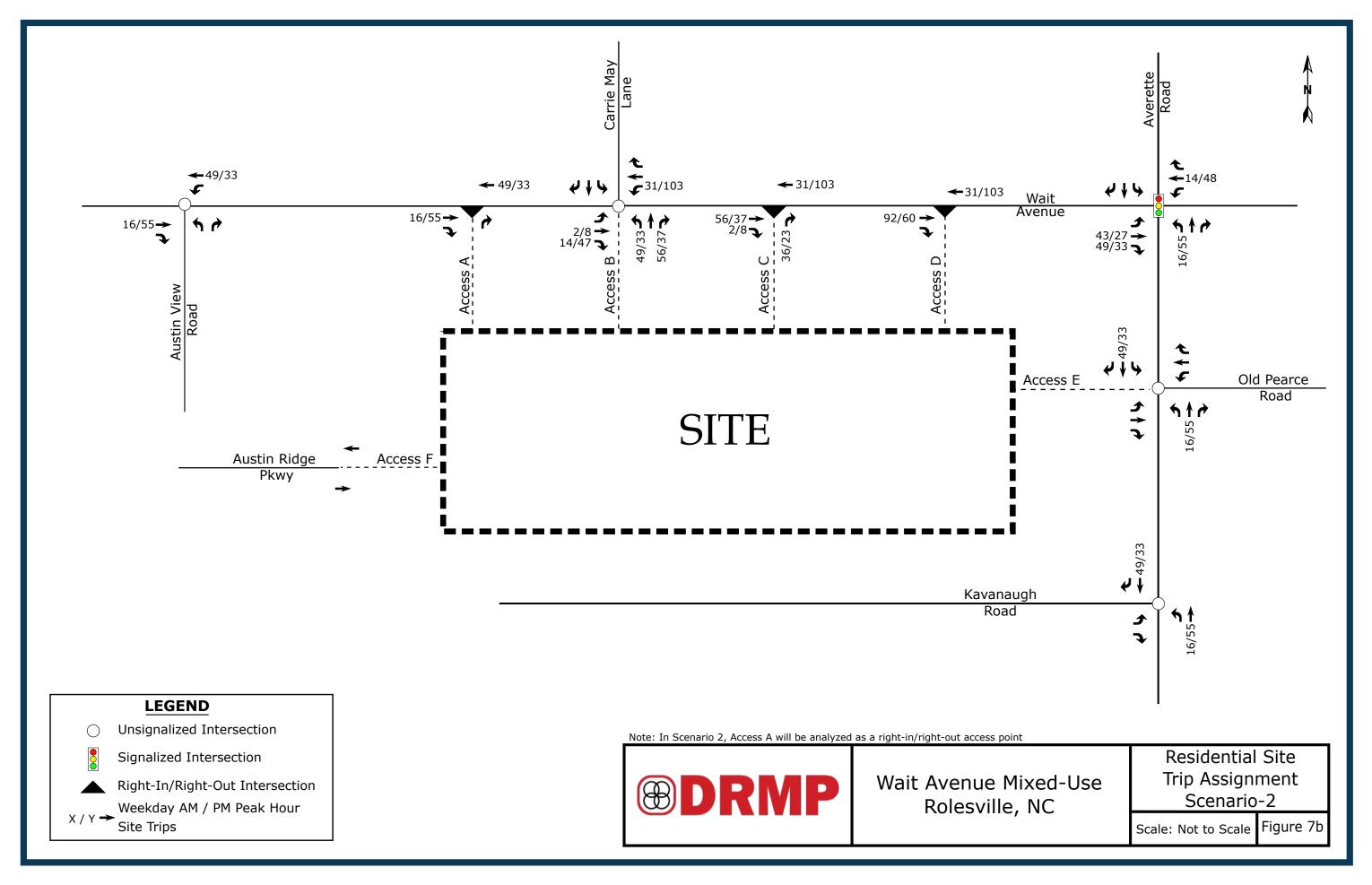
The total site trips were determined by adding the primary site trips and the pass-by site trips. Refer to Figure 12a and 12b for the total peak hour site trips for Scenario 1 and Scenario 2 at the study intersections.

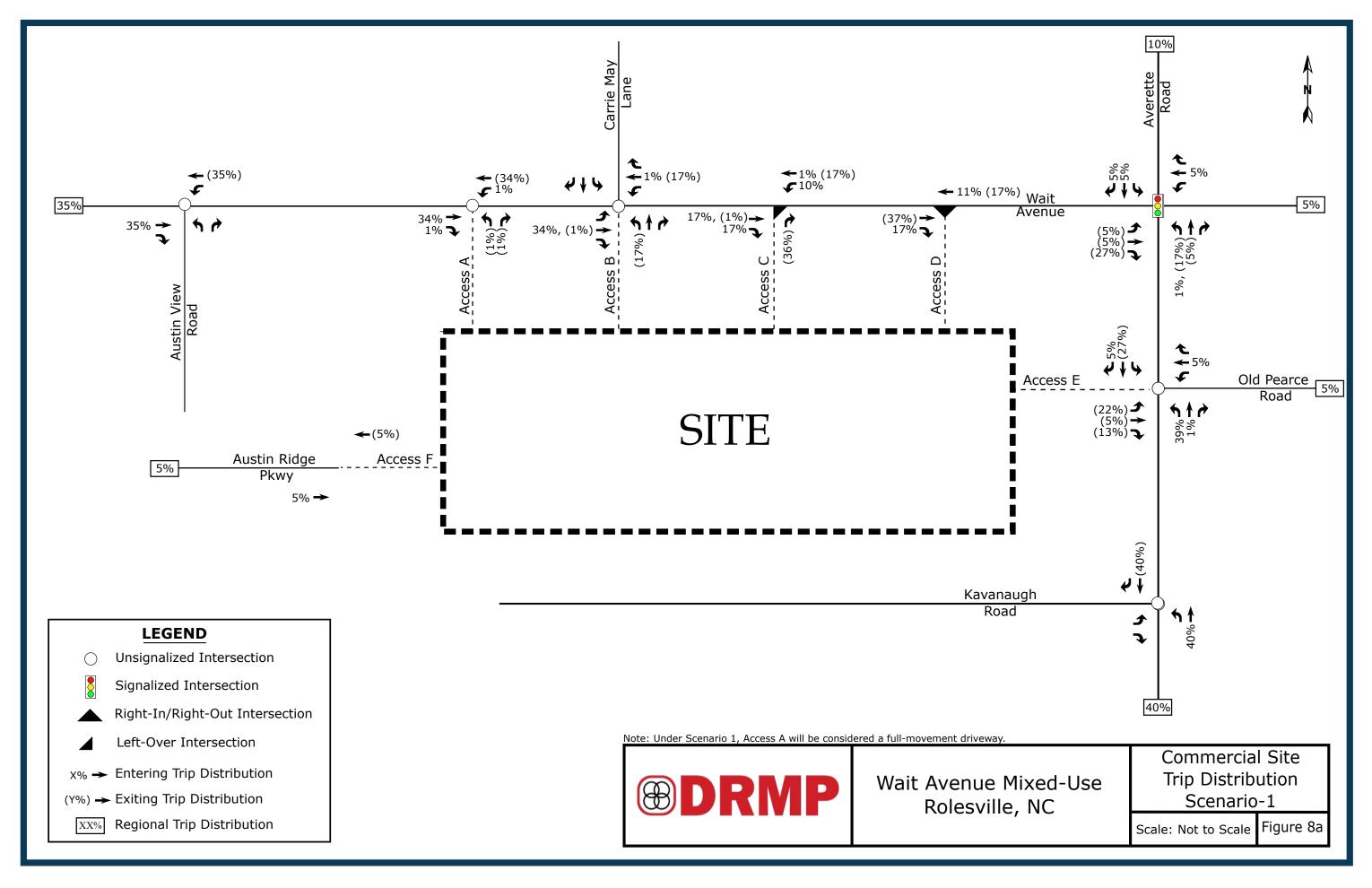


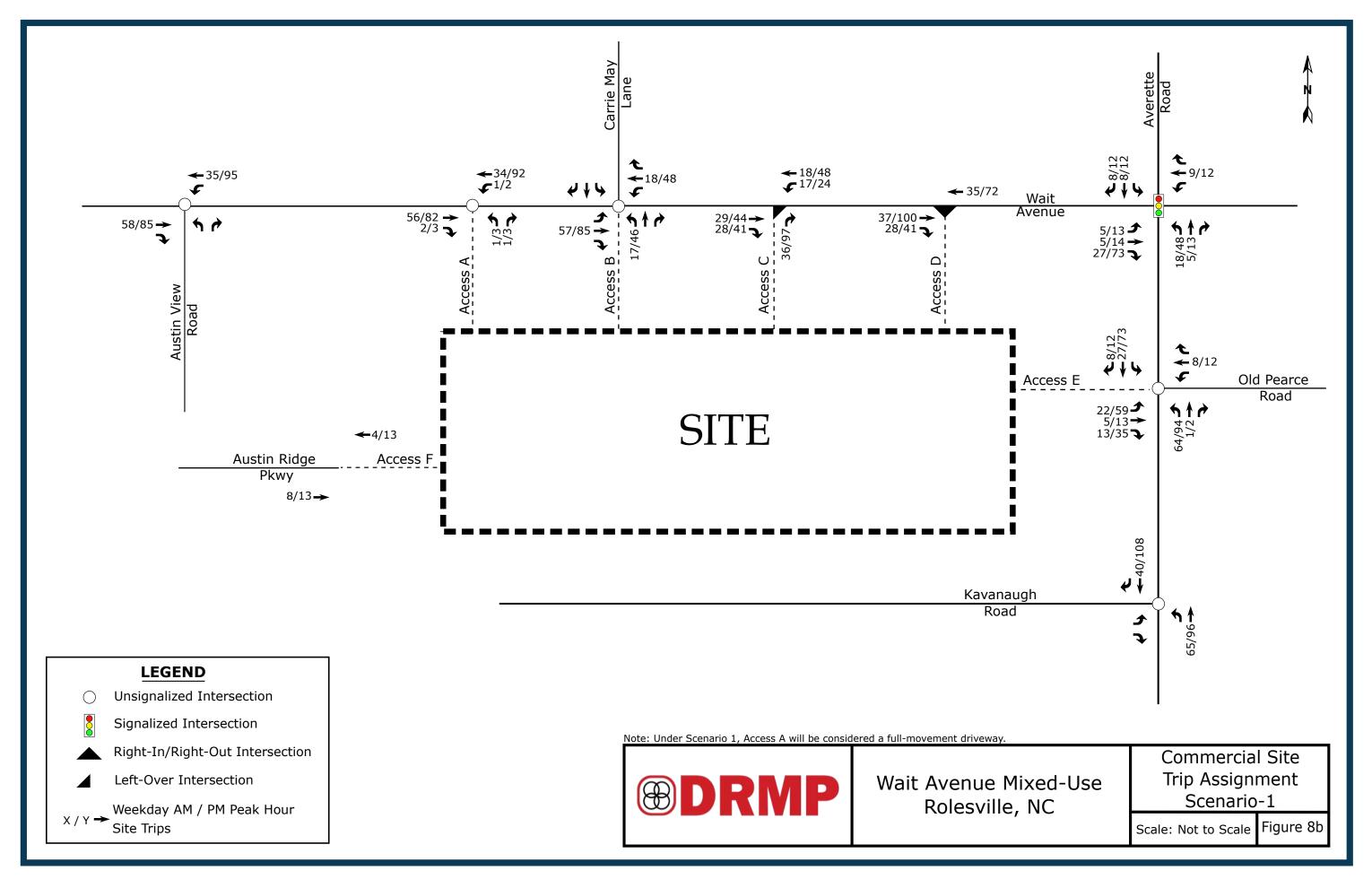


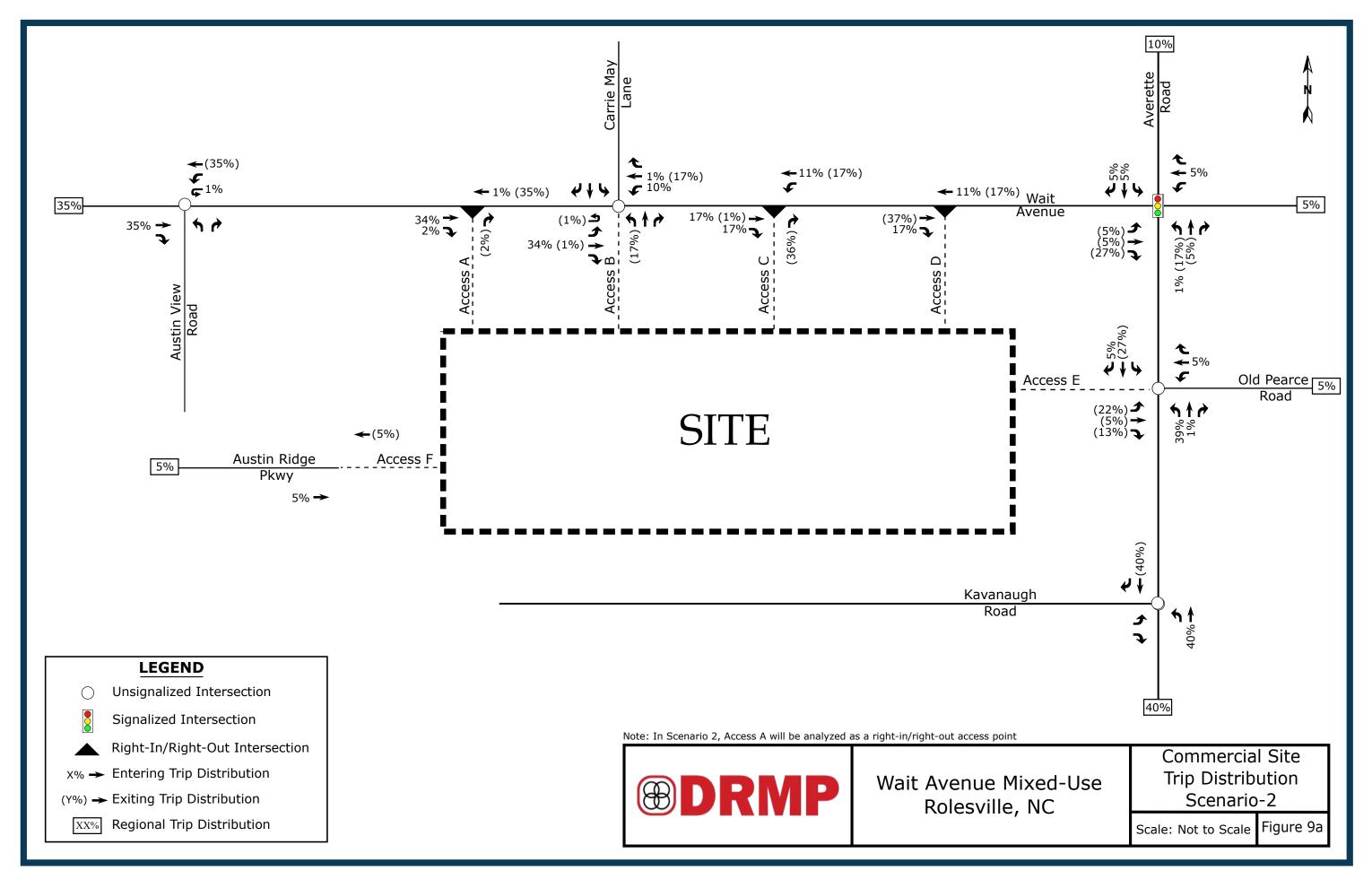


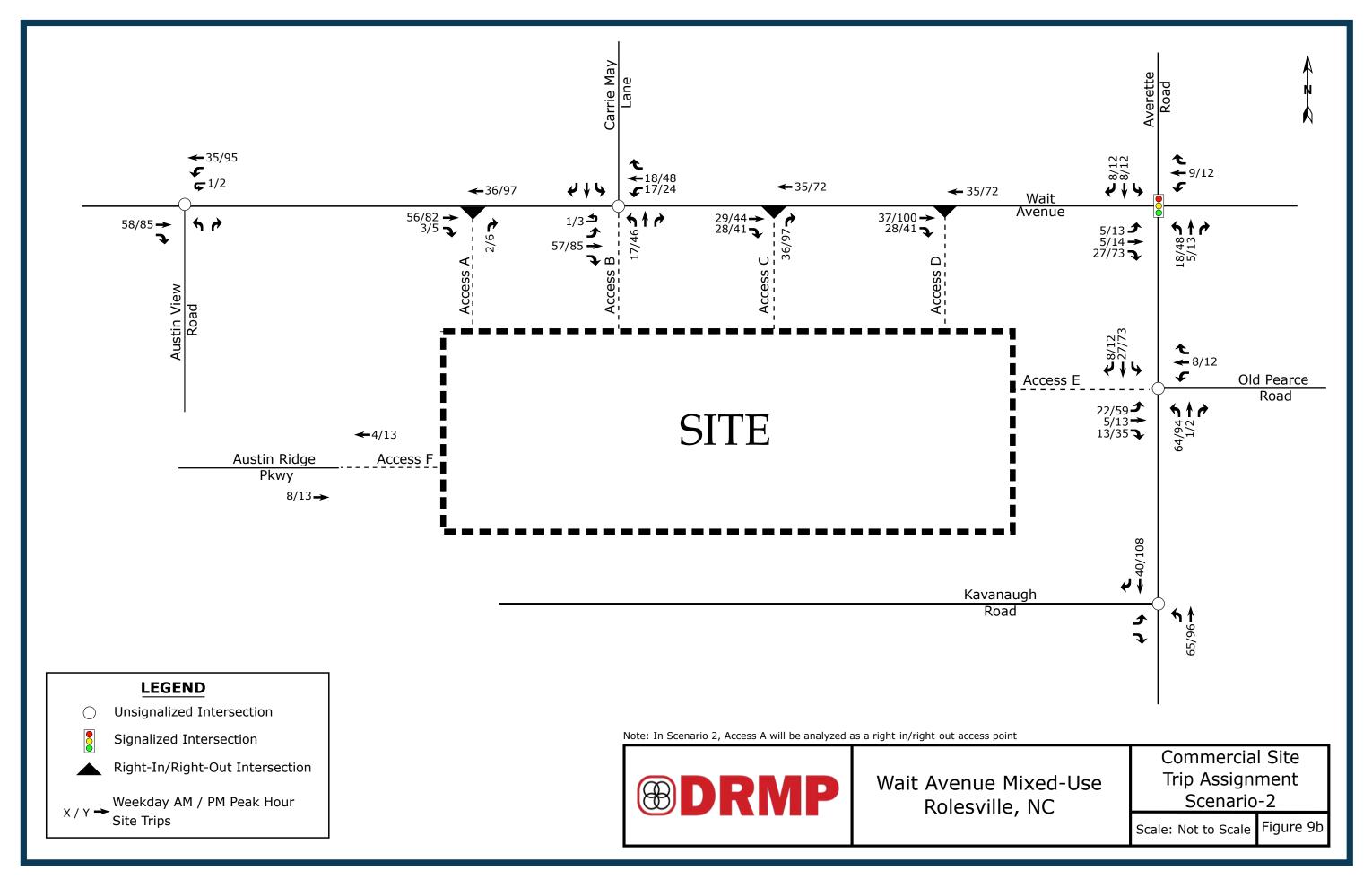


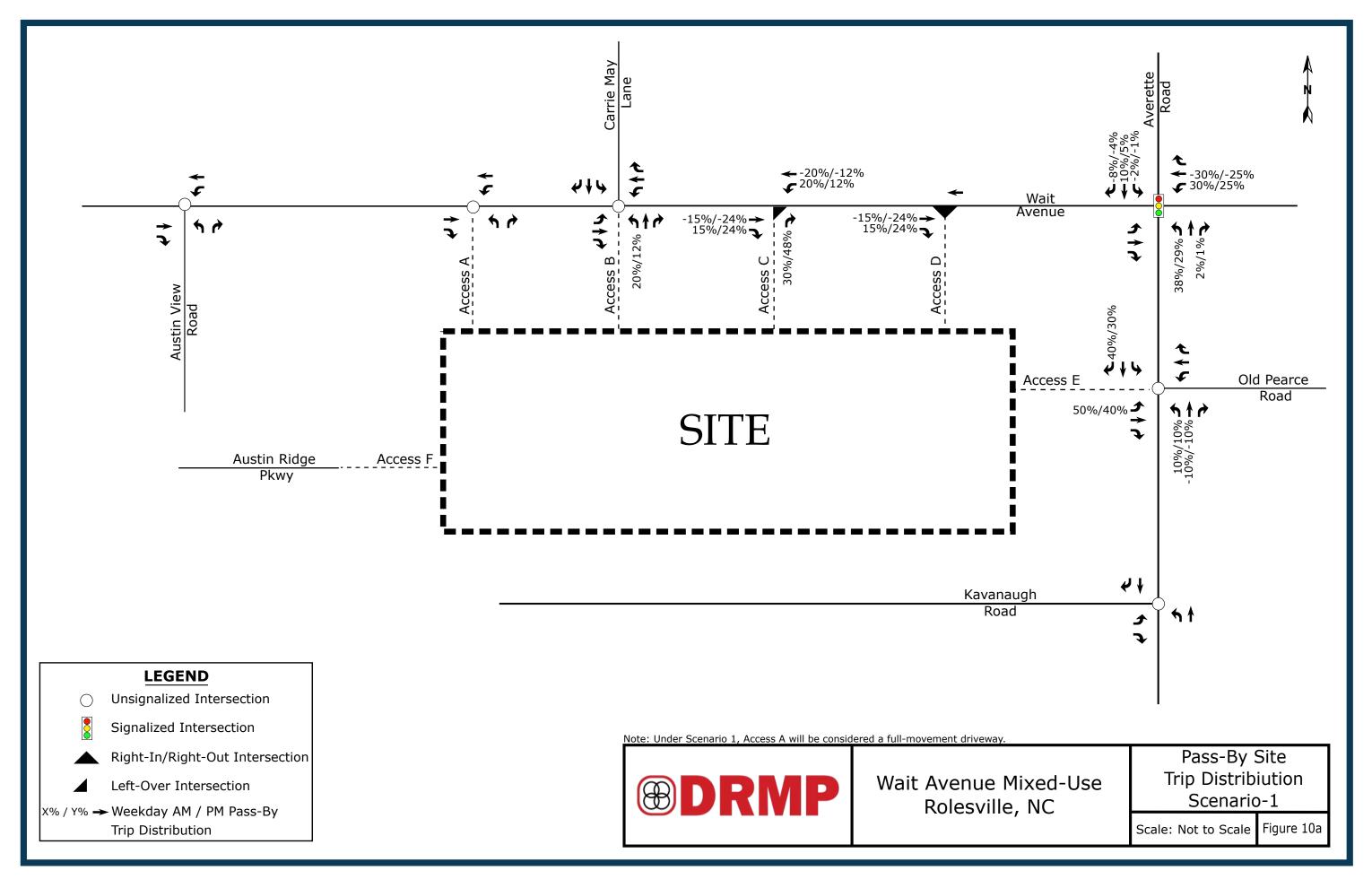


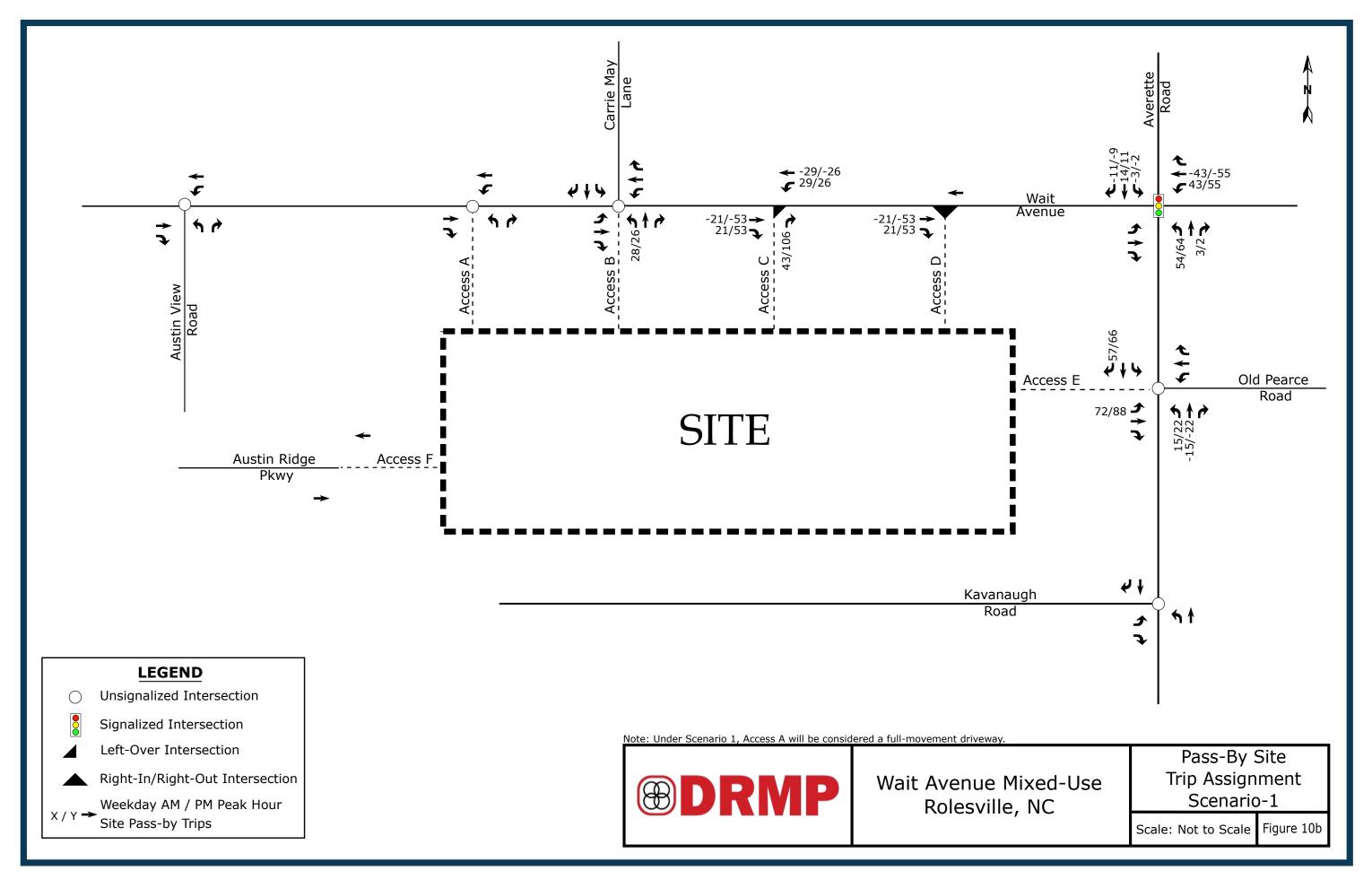


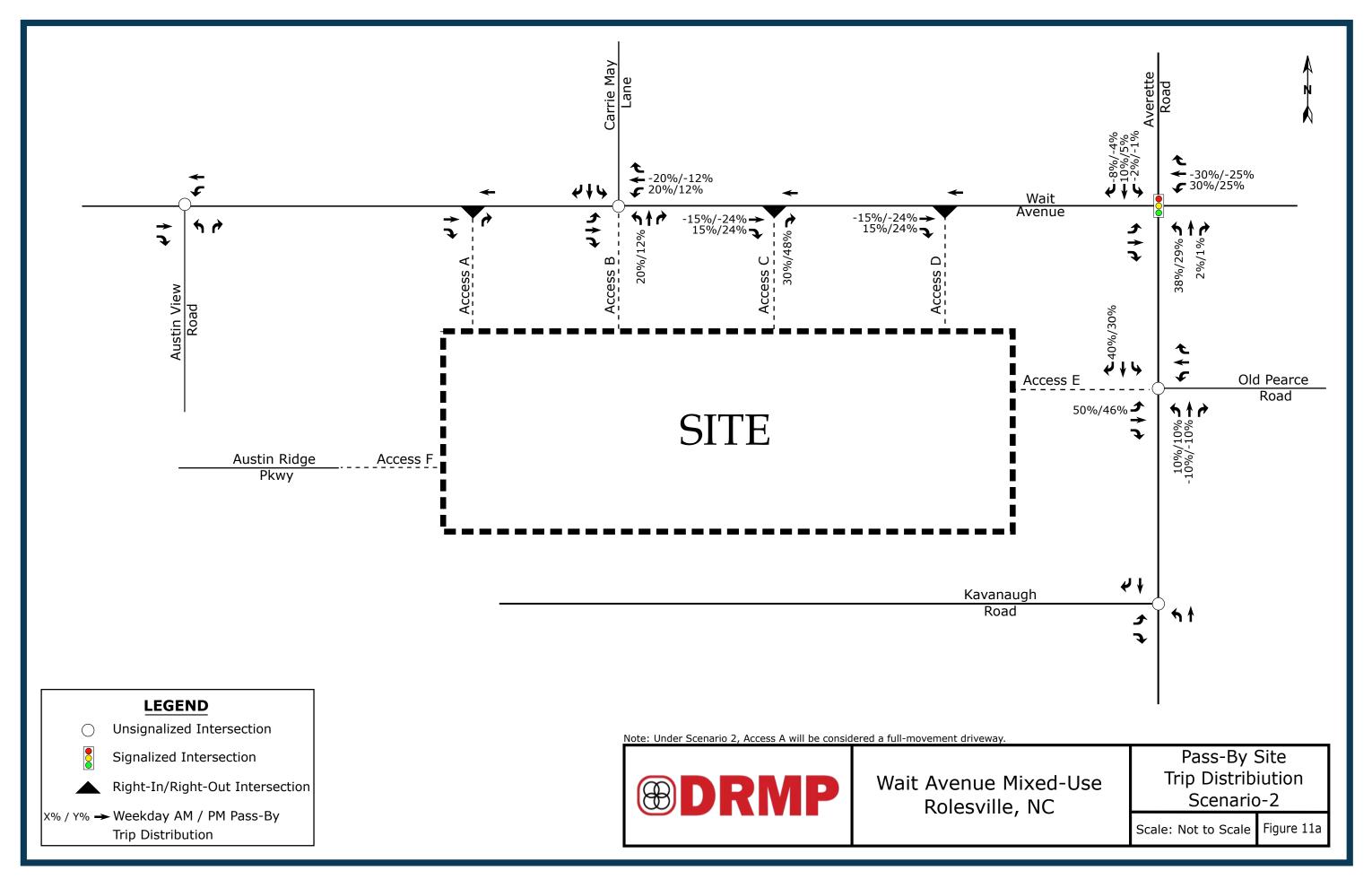


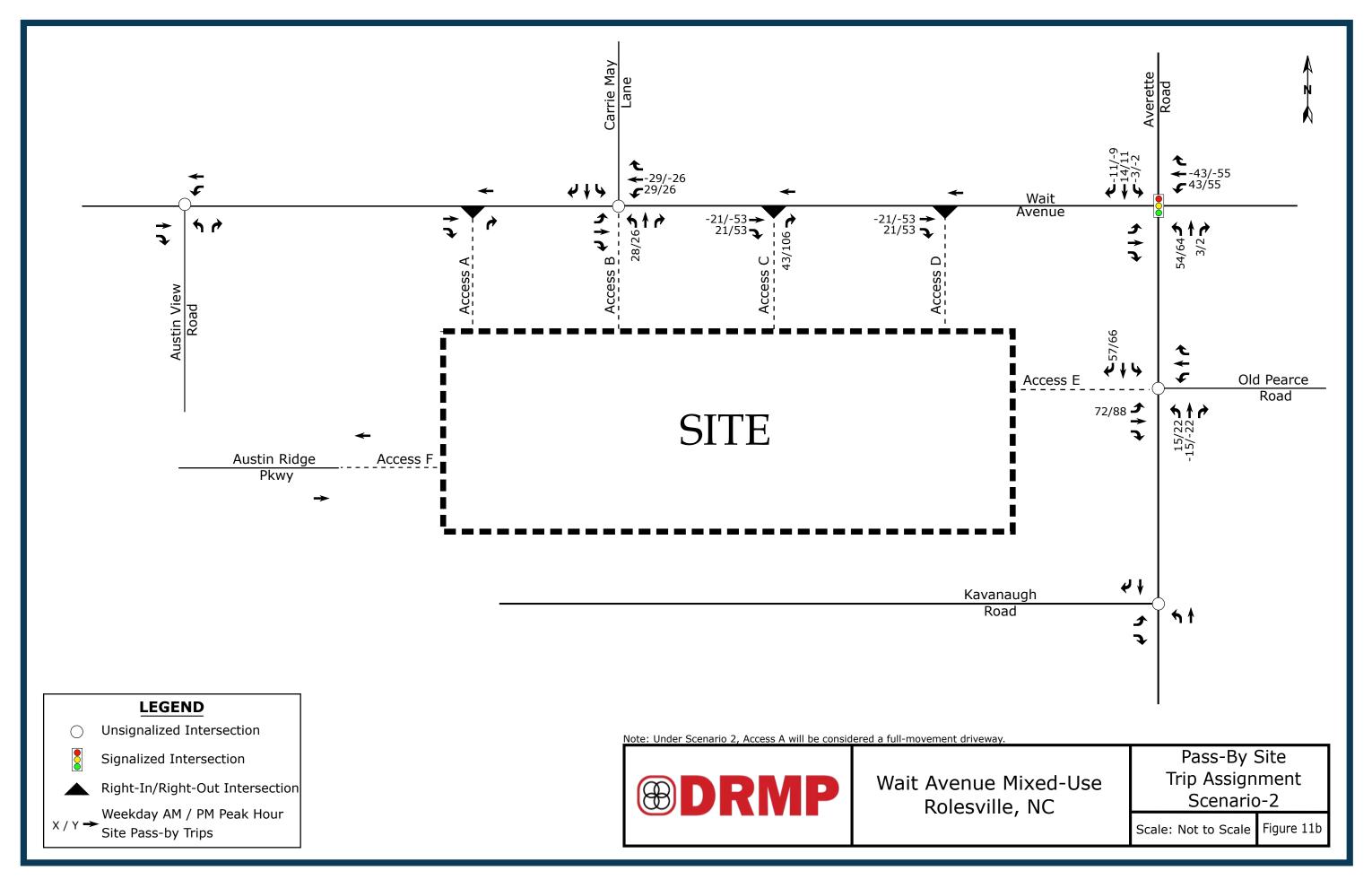


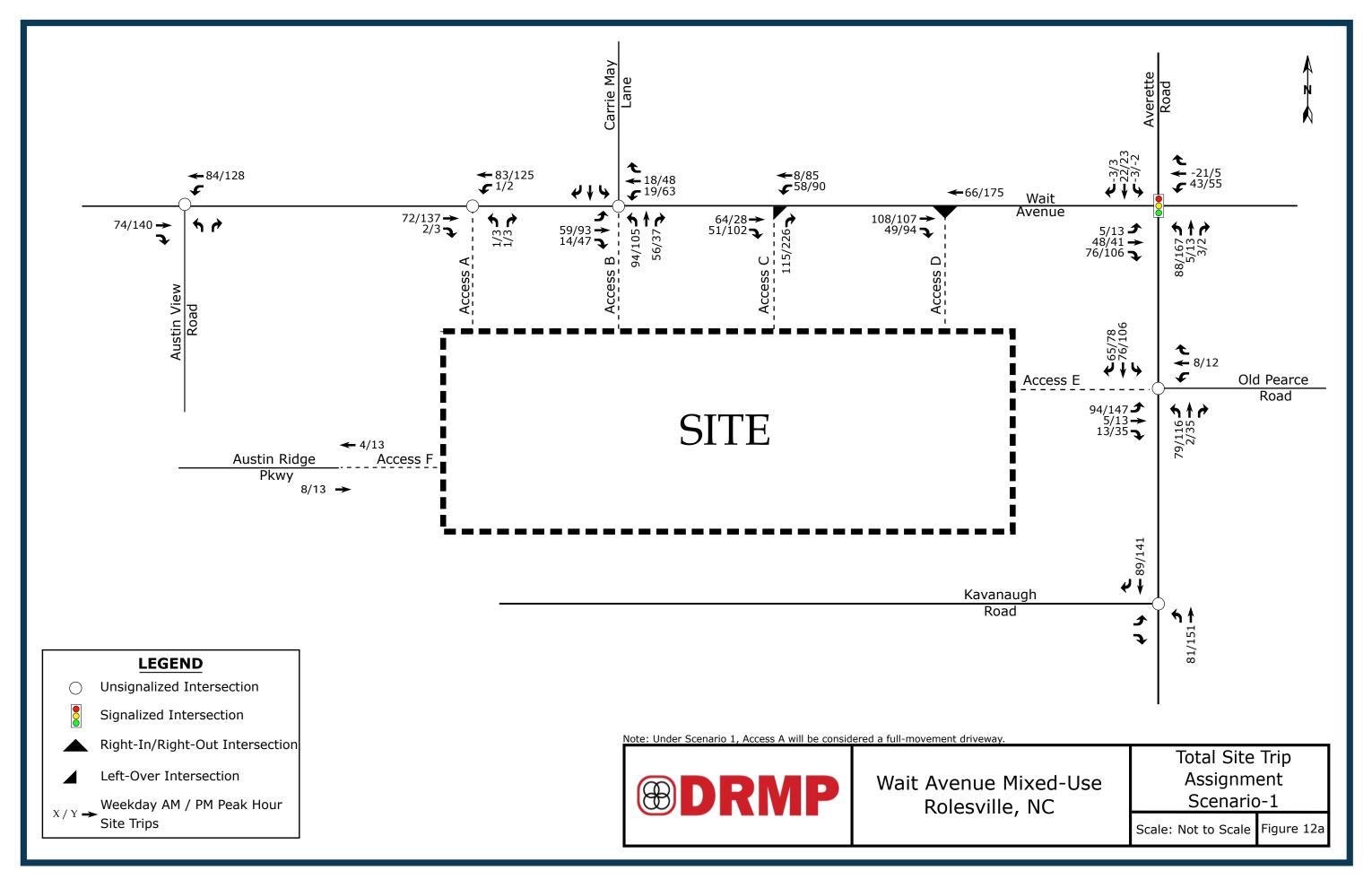


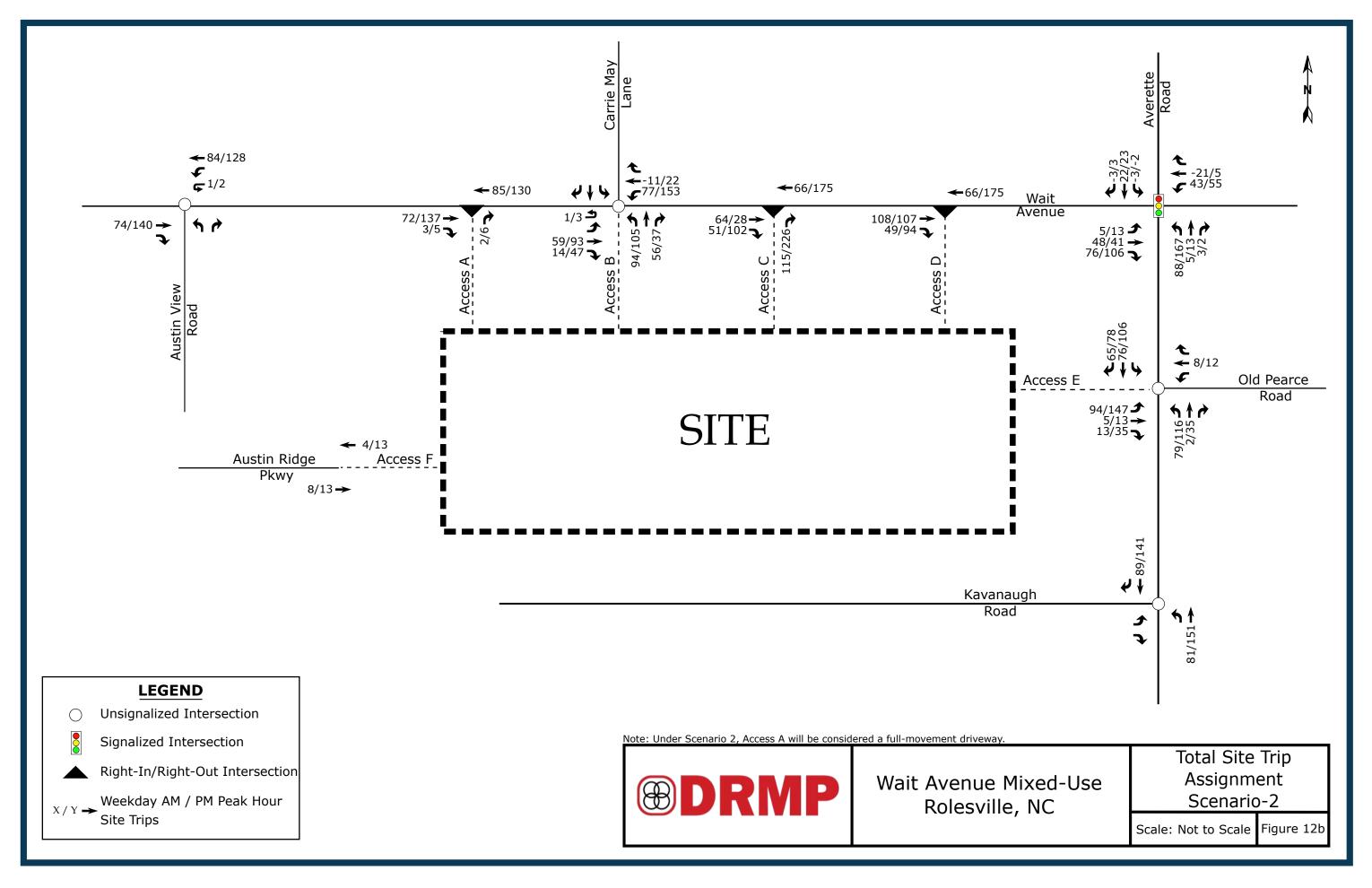












5. 2031 BUILD TRAFFIC CONDITIONS

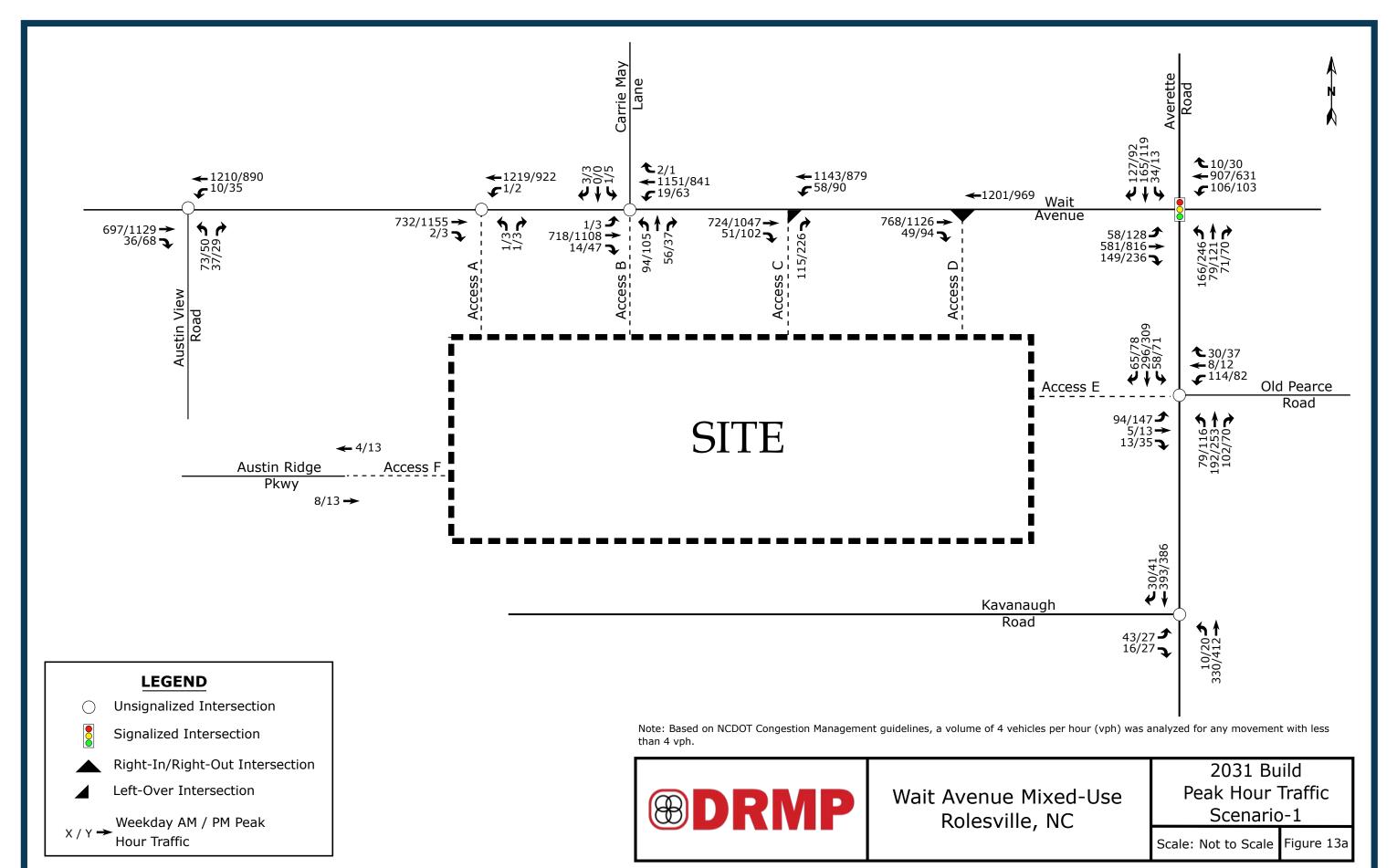
5.1. 2031 Build Peak Hour Traffic Volumes

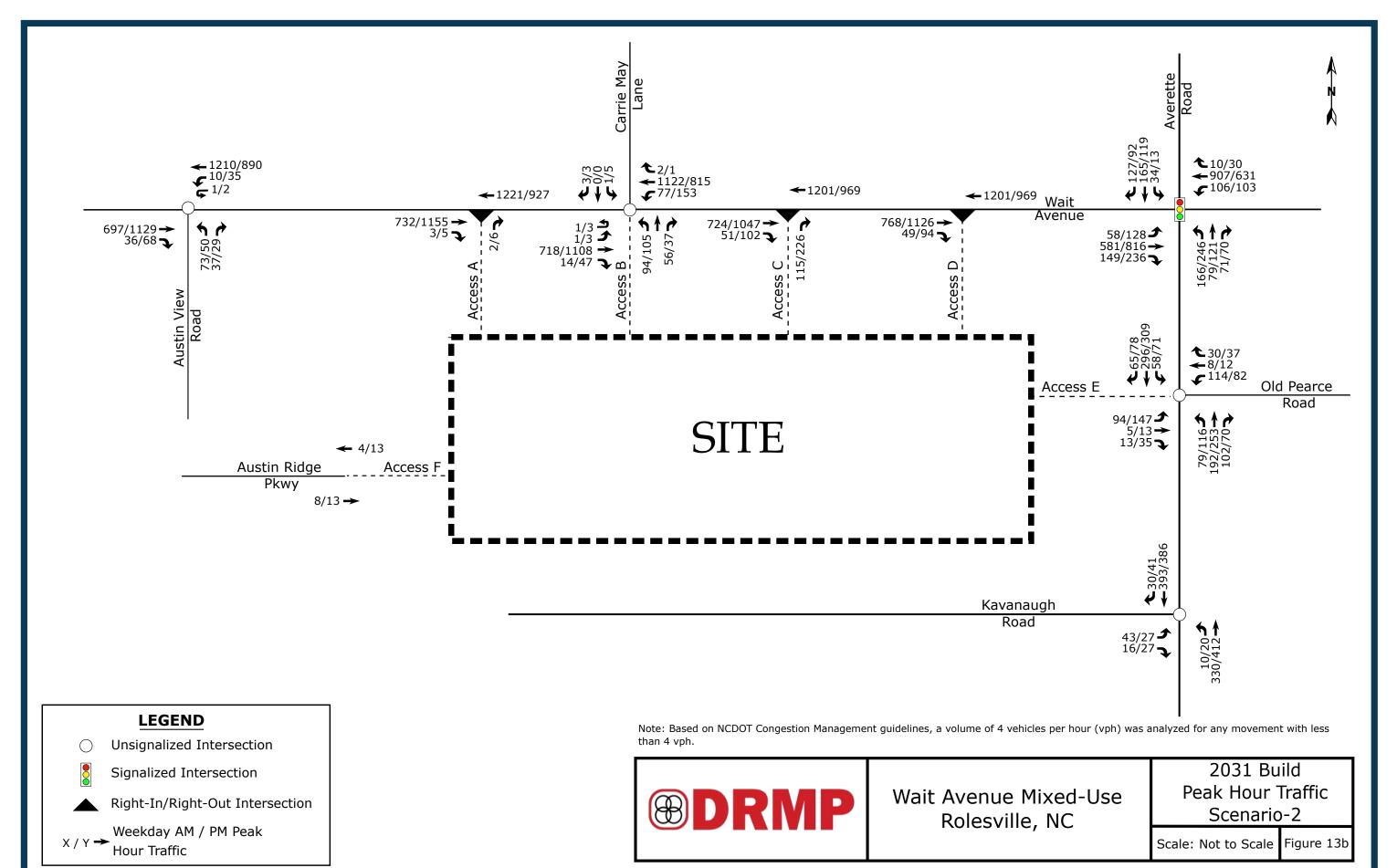
To estimate traffic conditions with the site fully built-out, the total site trips were added to the 2031 no-build traffic volumes to determine the 2031 build traffic volumes. Refer to Figure 13a and 13b for an illustration of the 2031 build peak hour traffic volumes with the proposed site fully developed for Scenarios 1 and 2.

5.2. Analysis of 2031 Build Peak Hour Traffic Conditions

Study intersections were analyzed with the 2031 build traffic volumes using the same methodology previously discussed for existing and no-build traffic conditions. Intersections were analyzed with improvements necessary to accommodate future traffic volumes. The results of the capacity analysis for each intersection are presented in Section 7 of this report.







6. TRAFFIC ANALYSIS PROCEDURE

Study intersections were analyzed using the methodology outlined in the *Highway Capacity Manual* (HCM), 6th Edition published by the Transportation Research Board. Capacity and level of service are the design criteria for this traffic study. A computer software package, Synchro (Version 11.1), was used to complete the analyses for the study area intersections. Please note that the unsignalized capacity analysis does not provide an overall level of service for an intersection; only delay for an approach with a conflicting movement.

The HCM defines capacity as "the maximum hourly rate at which persons or vehicles can reasonably be expected to traverse a point or uniform section of a lane or roadway during a given time period under prevailing roadway, traffic, and control conditions." Level of service (LOS) is a term used to represent different driving conditions and is defined as a "qualitative measure describing operational conditions within a traffic stream, and their perception by motorists and/or passengers." Level of service varies from Level "A" representing free flow, to Level "F" where breakdown conditions are evident. Refer to Table 4 for HCM levels of service and related average control delay per vehicle for both signalized and unsignalized intersections. Control delay as defined by the HCM includes "initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay". An average control delay of 50 seconds at a signalized intersection results in LOS "D" operation at the intersection.

Table 4: Highway Capacity Manual – Levels-of-Service and Delay

UNSIGNA	ALIZED INTERSECTION	SIGNAL	IZED INTERSECTION
LEVEL OF SERVICE	AVERAGE CONTROL DELAY PER VEHICLE (SECONDS)	LEVEL OF SERVICE	AVERAGE CONTROL DELAY PER VEHICLE (SECONDS)
Α	0-10	Α	0-10
В	10-15	В	10-20
С	15-25	С	20-35
D	25-35	D	35-55
Е	35-50	E	55-80
F	>50	F	>80

6.1. Adjustments to Analysis Guidelines

Capacity analysis at all study intersections was completed according to the NCDOT Congestion Management Guidelines.



7. CAPACITY ANALYSIS

The following study intersections were analyzed under 2025 existing, 2031 no-build, and 2031 build traffic conditions:

- Wait Avenue and Averette Road
- Wait Avenue and Carrie May Lane / Site Access B
- Wait Avenue and Austin View Road
- Averette Road and Old Pearce Road / Site Access E
- Averette Road and Kavanaugh Road
- · Wait Avenue and Site Access A
- Wait Avenue and Site Access C
- Wait Avenue and Site Access D

All proposed site driveways were analyzed under 2031 build traffic conditions. Refer to Tables 5-12 for a summary of capacity analysis results. Refer to Appendices F-J for the Synchro capacity analysis reports and SimTraffic queueing reports.



7.1. Wait Avenue and Averette Road

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 5: Analysis Summary of Wait Avenue and Averette Road

ANALYSIS	A P P R	LANE	WEEKDAY AM PEAK HOUR LEVEL OF SERVICE		WEEKDAY PM PEAK HOUR LEVEL OF SERVICE	
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2025 Existing	EB WB NB SB	LT, TH-RT 1 LT, TH-RT 1 LT-TH-RT 1 LT-TH, 1 RT	A (10) B (17) C (31) C (25)	B (17)	B (16) B (10) C (33) C (23)	B (17)
2031 No-Build	EB WB NB SB	LT, TH-RT 1 LT, TH-RT 1 LT-TH-RT 1 LT-TH, 1 RT	C (22) D (45) F (94) D (43)	D (43)	D (39) C (24) F (82) C (34)	D (39)
2031 Build	EB WB NB SB	LT, TH-RT 1 LT, TH-RT 1 LT-TH-RT 1 LT-TH, 1 RT	D (46) D (71) F (109) C (28)	E (62)	F (138) E (59) F (175) C (27)	F (111)
2031 Build Improved	EB WB NB SB	LT, TH-RT 1 LT, 1 TH, 1 RT 1 LT , 1 TH-RT 1 LT-TH, 1 RT	C (31) E (56) E (77) E (79)	D (54)	D (48) D (47) E (79) E (64)	D (54)

Improvements by developer shown in bold.

- 1. Level of service for major-street left-turn movement.
- 2. Level of service for minor-street approach.

Capacity analysis indicates that the intersection is expected to operate at an overall Level of Service LOS D or better during the weekday AM and PM peak under existing and 2031-no-build conditions, at 2031 build condition the intersection is expected to operate at E during AM peak hour and LOS F during PM peak hour, showing a degradation from LOS D under no-build conditions. This decline in LOS during both the AM and PM peak hours, along with observed queuing on multiple approaches, warrants mitigation.

To address the increased delay and restore operations to no-build conditions, the following improvement is recommended under 2031 full build conditions:

 Construct a westbound right-turn lane on Wait Avenue with 100 feet of storage and appropriate taper.



• Construct a northbound left-turn Lane on Averette Road with 300 feet of storage and appropriate taper.



7.2. Wait Avenue and Carrie May Lane/Access B

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 6: Analysis Summary of Wait Avenue and Carrie May Lane/
Access B

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF	HOUR	PEAK	DAY PM HOUR SERVICE
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2025 Existing	EB WB SB	1 LT-TH 1 TH-RT 1 LT-RT	B (11) ¹ D (32) ²	N/A	A (9) ¹ D (30) ²	N/A
2031 No-Build	EB WB SB	1 LT-TH 1 TH-RT 1 LT-RT	B (12) ¹ E (45) ²	N/A	A (10) ¹ E (45) ²	N/A
2031 Build Scenario-1	EB WB NB SB	1 LT-TH, 1 RT 1 LT , 1 TH-RT 1 LT-TH-RT 1 LT- TH -RT	B (12) ¹ A (10) ¹ F (1341) ² F (113) ²	N/A	A (10) ¹ B (13) ¹ F (2656) ² F (241) ²	N/A
2031 Build Improved Scenario-1 (Signalized)	EB WB NB SB	1 LT-TH, 1 RT 1 LT , 1 TH-RT 1 LT-TH-RT 1 LT- TH -RT	B (17) C (30) E (55) C (32)	C (27)	D (38) B (12) F (86) D (47)	C (31)
2031 Build Scenario-2	EB WB NB SB	1 LT-TH, 1 RT 1 LT , 1 TH-RT 1 LT-TH-RT 1 LT- TH -RT	B (12) ¹ A (10) ¹ F (1863) ² F (149) ²	N/A	A (10) ¹ B (15) ¹ F (4579) ² F (511) ²	N/A
2031 Build Improved Scenario-2 (Signalized)	EB WB NB SB	1 LT-TH, 1 RT 1 LT , 1 TH-RT 1 LT-TH-RT 1 LT- TH -RT	C (21) C (27) D (44) C (27)	C (26)	D (48) C (28) F (88) D (39)	D (42)

Improvements by developer shown in bold.

Capacity analysis indicates that the major street left-turn movements are expected to operate at LOS D or better during the weekday AM and PM peak hours under all traffic conditions. The minor-street approach is expected to operate at LOS F or better during the weekday AM and PM peak hours. Due to poor operations on the minor-street approach during the weekday AM and PM peak hours, a traffic signal was considered. 2031 build volumes were analyzed utilizing the criteria contained in the *Manual on Uniform Traffic*



^{1.} Level of service for major-street left-turn movement.

^{2.} Level of service for minor-street approach.

Control Devices (MUTCD). It should be noted that a traffic signal is expected to be warranted during both weekday peak hours under 2031 build traffic conditions. warrant analysis was conducted at this intersection. Based on the signal warrant analysis results, this intersection warrants signalization.

With signalization, the intersection is expected to operate at an overall LOS C during the weekday AM and LOS D during PM peak hours under 2030 build – improved traffic conditions. No queuing issues were identified under 2030 Build Improved traffic conditions.

Along with signalizing the intersection, left turn and right turn lanes were considered based on the NCDOT *Policy on Street and Driveway Access to North Carolina Highways*. The following improvements are recommended to be constructed by the developer:

- Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.
- Construct a westbound Wait Avenue left turn lane with 125 feet of storage and appropriate taper length. (Under Scenario-1).
- Construct a westbound Wait Avenue left turn lane with 350 feet of storage and appropriate taper length. (Under Scenario-2)
- Install a traffic Signal.



7.3. Wait Avenue and Austin View Blvd

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 7: Analysis Summary of Wait Avenue and Austin View Blvd

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF	HOUR	PEAK	DAY PM HOUR F SERVICE
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2025 Existing	EB WB NB	1 TH, 1 RT 1 LT, 1 TH 1 LT-RT	 A (9) ¹ F (87) ²	N/A	 A (9) ¹ F (87) ²	N/A
2031 No-Build	EB WB NB	1 TH, 1 RT 1 LT, 1 TH 1 LT-RT	 A (9) ¹ F (270) ²	N/A	 B (12) ¹ F (200) ²	N/A
2031 Build	EB WB NB	1 TH, 1 RT 1 LT, 1 TH 1 LT-RT	 A (10) ¹ F (429) ²	N/A	 B (13) ¹ F (474) ²	N/A

^{1.} Level of service for major-street left-turn movement.

Capacity analysis indicates that the major-street left-turn movements are expected to operate at LOS A during the weekday AM and PM peak hours under all traffic conditions. The minor-street approach is expected to operate at LOS F or better during the weekday AM and PM peak hours. Poor levels of service and higher delays are not uncommon for an unsignalized minor-street approach during the weekday peak hours when mainline volumes are heaviest. Due to the minimal impacts caused by the proposed development, no improvements are recommended by the developer. A signal warrant analysis was conducted based on Warrants 1, 2, and 3 in the Manual on Uniform Traffic Control Devices (MUTCD); however, none of the warrants were satisfied.

The Austin Creek development has several road connections and is expected to also connect to the proposed development. Should vehicles experience significant delay at this intersection, there are alternative routes available, including a new signal via the proposed development.



^{2.} Level of service for minor-street approach.

7.4. Averette Road and Old Pearce Road / Access E

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 8: Analysis Summary of Averette Road and Old Pearce Road

/ Access E

ANALYSIS	A P P R	LANE		AY AM HOUR SERVICE	PEAK	DAY PM HOUR F SERVICE
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2025 Existing	WB NB SB	1 LT-RT 1 TH-RT 1 LT-TH	B (15) ² A (8) ¹	N/A	B (14) ² A (8) ¹	N/A
2031 No-Build	WB NB SB	1 LT-RT 1 TH-RT 1 LT-TH	C (17) ² A (8) ¹	N/A	C (16) ² A (8) ¹	N/A
2031 Build	WB NB SB	1 LT-TH-RT 1 LT-TH-RT 1 LT, 1 TH-RT 1 LT-TH, 1 RT	E (39) ¹ E (49) ¹ A (8) ² A (8) ²	N/A	F (221) ¹ F (82) ¹ A (9) ² A (8) ²	N/A

Improvements by developer shown in bold.

- 1. Level of service for major-street left-turn movement.
- 2. Level of service for minor-street approach.

Capacity analysis indicates that the major-street left-turn movements are expected to operate at LOS A during the weekday AM and PM peak hours under all traffic conditions. The minor-street approach is expected to operate at LOS F or better during the weekday AM and PM peak hours. Poor levels of service and higher delays are not uncommon for an unsignalized minor-street approach during the weekday peak hours when mainline volumes are heaviest. Due to the minimal impacts caused by the proposed development, no improvements are recommended by the developer.

Although minor-street queues were observed to spill back due to heavy volumes on the major-street. The improvements recommended at Wait Avenue and Averette Road are expected mitigated this issue. As a result, no queuing issues were identified under the 2031 build – improved conditions



Left turn and right turn lanes were considered based on the NCDOT *Policy on Street and Driveway Access to North Carolina Highways*. The following improvements are recommended to be constructed by the developer:

- Construct a northbound Averette Road left turn lane with 100 feet of storage and appropriate taper length.
- Construct a southbound Averette Road right turn lane with 75 feet of storage and appropriate taper length.



7.5. Averette Road and Kavanaugh Road

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 9: Analysis Summary of Averette Road and Kavanaugh Road

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF		PEAK	DAY PM HOUR F SERVICE
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2025 Existing	EB NB SB	1 LT-RT 1 LT, TH 1 TH-RT	B (13) ² A (8) ¹	N/A	B (12) ² A (8) ¹	N/A
2031 No- Build	EB NB SB	1 LT-RT 1 LT, TH 1 TH-RT	B (14) ² A (8) ¹	N/A	B (12) ² A (8) ¹	N/A
2031 Build	EB NB SB	1 LT-RT 1 LT, TH 1 TH-RT	C (17) ² A (8) ¹	N/A	C (16) ² A (8) ¹	N/A

^{1.} Level of service for major-street left-turn movement.

Capacity analysis indicates that the major street left turn movements and minor street approaches are expected to operate at LOS C or better during the weekday AM and PM peak hours under all traffic conditions. No queuing issues were identified. No improvements are recommended by the developer. No queuing issues were identified. No improvements are recommended by the developer.



^{2.} Level of service for minor-street approach.

7.6. Wait Avenue and Access A

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 10: Analysis Summary of Wait Avenue and Access A

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF	HOUR	PEAK	DAY PM HOUR F SERVICE
SCENARIO	0 A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2031 Build Scenario-1 (Full Movement)	EB WB NB	1 TH-RT 1 LT-TH 1 RT-LT	 A (10) ¹ F (51) ²	N/A	 B (12) ¹ F (66) ²	N/A
2031 Build Scenario-2 (RIRO)	EB WB NB	1 TH-RT 1 TH 1 RT	 B (15) ²	N/A	 C (24) ²	N/A

- 1. Level of service for major-street left-turn movement.
- 2. Level of service for minor-street approach.

Capacity analysis indicates that the major-street left-turn movements are expected to operate at LOS A during weekday AM and LOS B PM peak hour under 2031 build (Scenario-1). Poor levels of service and higher delays are not uncommon for an unsignalized minor-street approach during the weekday peak hours when mainline volumes are heaviest. Due to the minimal impacts caused by the proposed development, no improvements are recommended by the developer.

Under the 2031 build (Scenario-2) and minor street approach is expected to operate at LOS B during the weekday AM and LOS C PM peak hours under 2031 build (Scenario-2). No queuing issues were identified. No improvements are recommended by the developer.

Left turn and right turn lanes were considered based on the NCDOT *Policy on Street and Driveway Access to North Carolina Highways*. No turn lanes are warranted at Access A under full buildout of the development.



7.7. Wait Avenue and Access C

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 11: Analysis Summary of Wait Avenue and Access C

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF	HOUR	PEAK	DAY PM HOUR F SERVICE
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2031 Build Scenario-1 (left-over)	EB WB NB	1 TH, 1 RT 1 LT, 1 TH 1 RT	 B (10) ¹ C (19) ²	N/A	 B (13) ¹ F (120) ²	N/A
2031 Build Scenario-2 (RIRO)	EB WB NB	1 TH, 1 RT 1 TH 1 RT	 C (19) ²	N/A	 F (120) ²	N/A

- 1. Level of service for major-street left-turn movement.
- 2. Level of service for minor-street approach.

Capacity analysis indicates that under Scenario-1 the major-street left-turn movements are expected to operate at LOS B during the weekday AM and PM peak hour. The minor-street approach is expected to operate at LOS F or better during the weekday AM and PM peak hours. Poor levels of service and higher delays are not uncommon for an unsignalized minor-street approach during the weekday peak hours when mainline volumes are heaviest.

Left turn and right turn lanes were considered based on the NCDOT *Policy on Street and Driveway Access to North Carolina Highways*. The following improvements are recommended to be constructed by the developer:

- Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.
- Construct a westbound Wait Avenue left turn lane with 175 feet of storage and appropriate taper length (Under Scenario-1).



Gaps in the roadway network along Wait Avenue are expected due to the proposed traffic signal. Should vehicles at this intersection experience significant delay exiting, there are several alternative routes via the connectivity provided by the site.



7.8. Wait Avenue and Access D

Refer to the table below for a summary of the capacity analysis of the subject intersection during the analysis scenarios.

Table 12: Analysis Summary of Wait Avenue and Access D

ANALYSIS	A P P R	LANE	WEEKD PEAK LEVEL OF		PEAK	DAY PM HOUR F SERVICE
SCENARIO	O A C H	CONFIGURATIONS	Approach	Overall (seconds)	Approach	Overall (seconds)
2031 Build	EB WB	1 TH, 1 RT 1 TH	1 1	С		В

Capacity analysis indicates that Overall intersection is expected to operate at LOS C during the weekday AM and LOS B PM peak hours under all traffic conditions. No queuing issues were identified. Right turn lanes were considered based on the NCDOT *Policy on Street and Driveway Access to North Carolina Highways*. The following improvements are recommended to be constructed by the developer:

• Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.



8. CONCLUSIONS

This Traffic Impact Analysis was conducted to determine the potential traffic impacts of the Wait Avenue Mixed-Use development to be located in Rolesville, North Carolina. The proposed development, anticipated to be completed in 2031, is assumed to consist of the following land uses:

- 300 DU Single-Family Detached Housing
- 107,049 SF Mini-Warehouse
- 51,000 SF Supermarket
- 23,700 SF Strip Retail Plaza
- 2,500 SF Coffee/Donut Shop with Drive-Through Window
- 2,400 SF Drive-in Bank
- 2 Fast Casual Restaurants at 2,500 SF each
- 5,000 SF Convenience Store/Gas Station w/12 fueling positions

Site access is proposed via four driveways along Wait Avenue (NC 98), one full-movement driveway along Averette Road, and one site access is proposed via the existing Austin Ridge Parkway.

The study analyzes traffic conditions during the weekday AM and PM peak hours for the following scenarios:

- 2025 Existing Traffic Conditions
- 2031 No-Build Traffic Conditions
- 2031 Build Traffic Conditions Scenario 1 (without Median)
- 2031 Build Traffic Conditions Scenario 2 (with Median)

Trip Generation

Primary site trips are expected to generate approximately 452 trips (212 entering and 240 exiting) during the weekday AM peak hour and 762 trips (400 entering and 362 exiting) during the weekday PM peak hour.

Adjustments to Analysis Guidelines

Capacity analysis at all study intersections was completed according to NCDOT Congestion Management Guidelines. Refer to section 6.1 of this report for a detailed description of any adjustments to these guidelines made throughout the analysis.



9. RECOMMENDATIONS

Based on the findings of this study, specific geometric improvements have been identified and are recommended to accommodate future traffic conditions. See a more detailed description of the recommended improvements below. Refer to Figure 14a and 14b for an illustration of the recommended lane configuration for the proposed development.

Wait Avenue and Averette Road

- Construct a westbound right-turn lane on Wait Avenue with 100 feet of storage and appropriate taper.
- Construct a northbound left-turn Lane on Averette Road with 300 feet of storage and appropriate taper.

Wait Avenue and Carrie May Lane/Access B

- Construct Site Access B (northbound approach) with one ingress and one egress lane.
- Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.
- Construct a westbound Wait Avenue left turn lane with 125 feet of storage and appropriate taper length. (Under Scenario-1).
- Construct a westbound Wait Avenue left turn lane with 350 feet of storage and appropriate taper length. (Under Scenario-2)
- Install a traffic Signal.

Averette Road and Old Pearce Road/Access E

- Construct Site Access E (westbound approach) as a with one ingress and one egress lane.
- Construct a northbound Averette Road Left turn lane with 100 feet of storage and appropriate taper length.
- Construct a southbound Averette Road left turn lane with 125 feet of storage and appropriate taper length.
- Provide stop control for the westbound approach.



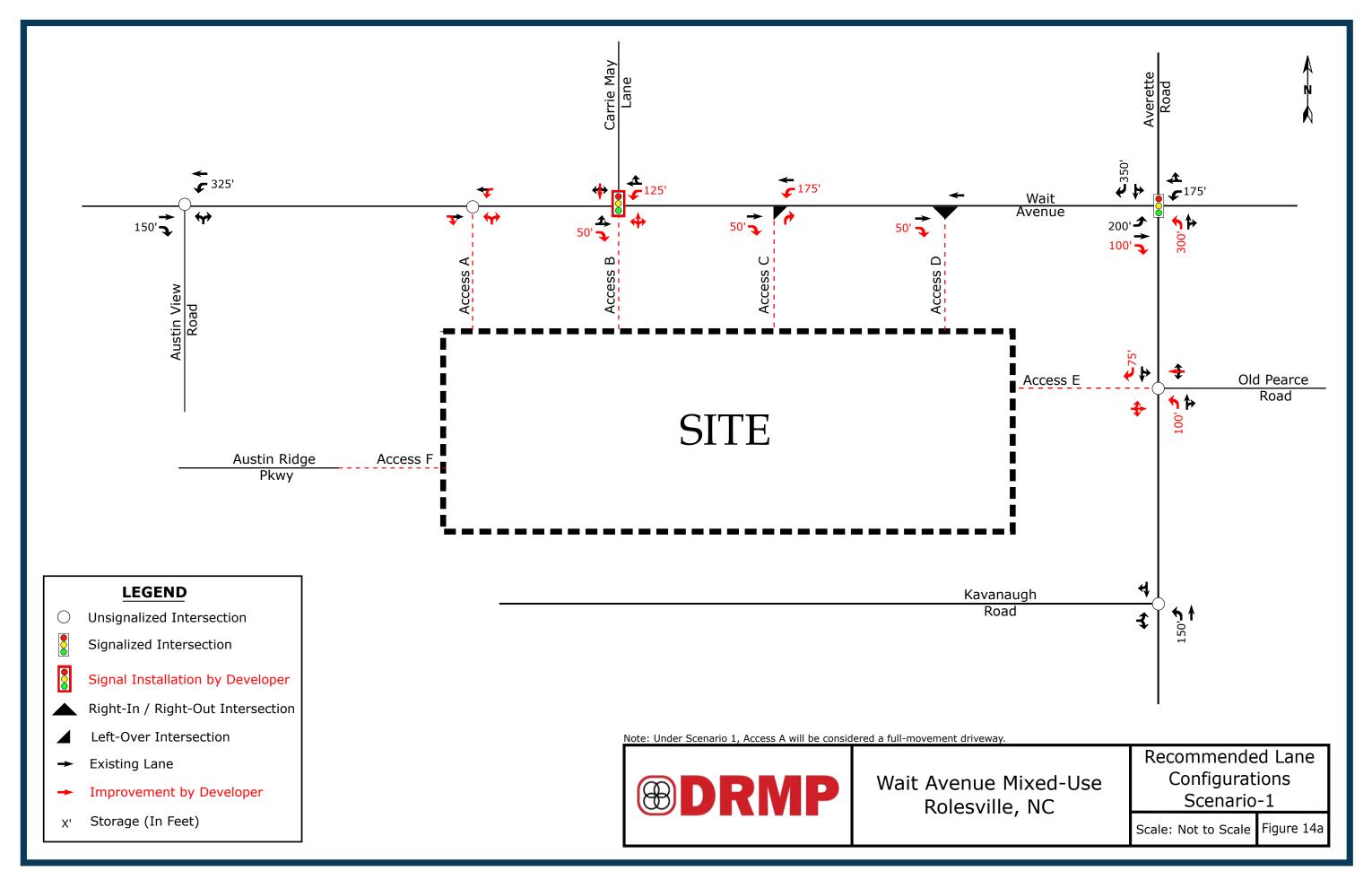
Wait Avenue and Access C

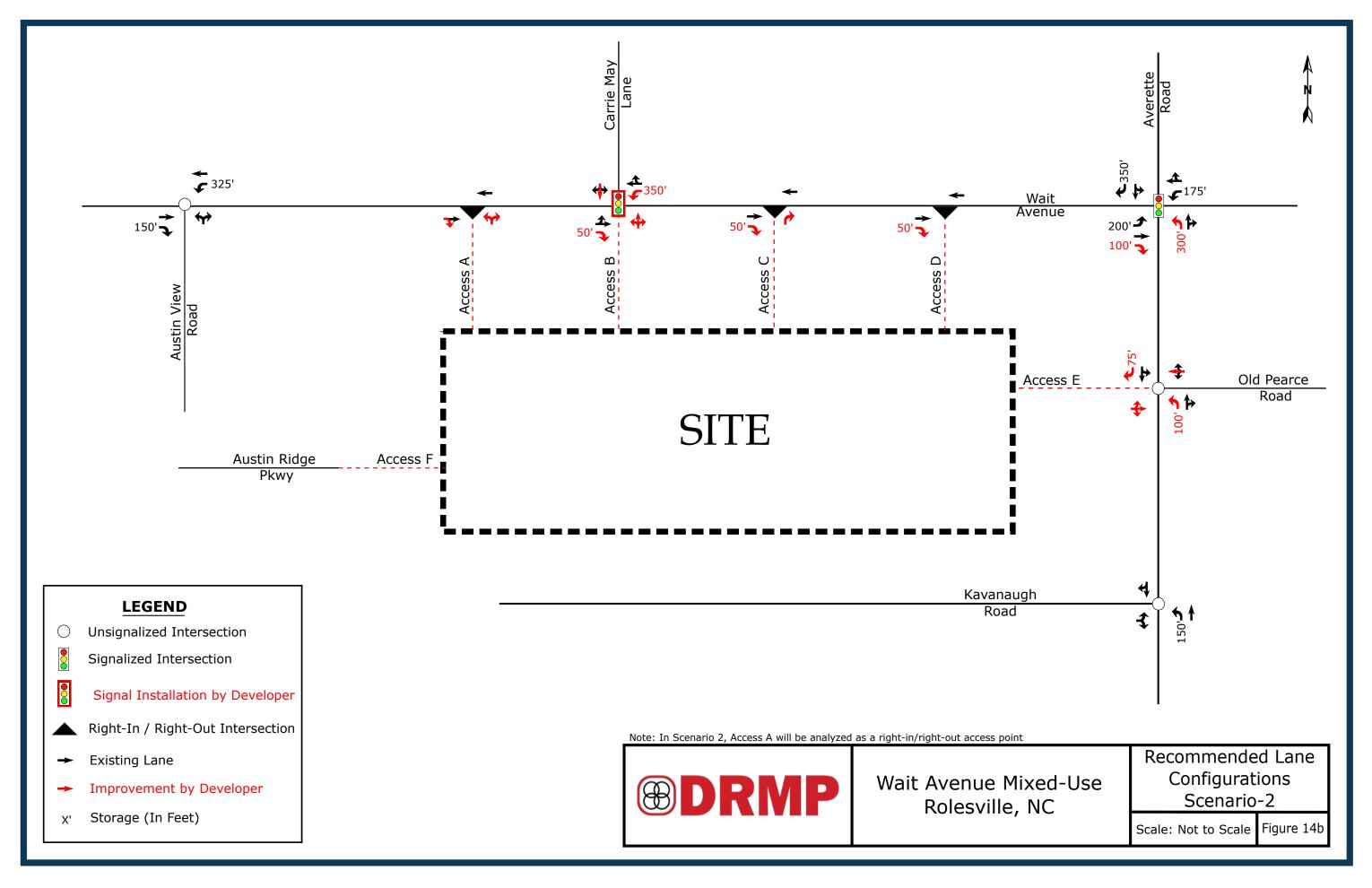
- Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.
- Construct a westbound Wait Avenue left turn lane with 175 feet of storage and appropriate taper length. (Under Scenario-1).

Wait Avenue and Access D

• Construct an eastbound Wait Avenue right turn lane with 50 feet of storage and appropriate taper length.







TECHNICAL APPENDIX

APPENDIX A

SCOPING DOCUMENTATION



June 24, 2025

Daniel Boulware, PE NCDOT Division 5 – District 1 4009 District Drive Raleigh, NC 27607 P: 919-814-6115

dboulware@ncdot.gov

Reference: Wait Avenue Mixed-Use - Rolesville, NC Subject: Memorandum of Understanding for TIA Report

Dear Daniel:

The following is a Memorandum of Understanding (MOU) outlining the proposed scope of work and assumptions related to the Traffic Impact Analysis (TIA) for the proposed Wait Avenue Mixed-Use development, to be located south of Wait Avenue and west of Averette Road in Rolesville, North Carolina. This MOU reflects the assumptions outlined during initial coordination between DRMP, Inc., the Town of Rolesville (Town), and the development team. Refer to the attached site location map.

Access to the site is provided via four driveways along Wait Avenue (NC 98), one full-movement driveway along Averette Road, and one site access is proposed via the existing Austin Ridge Parkway. Refer to the attached site plan.

The proposed development, expected to be completed by the year 2031, is assumed to consist of the following land uses:

- 300 DU Single-Family Detached Housing
- 107,049 SF Mini-Warehouse
- 51,000 SF Supermarket
- 23,700 SF Strip Retail Plaza
- 2,500 SF Coffee/Donut Shop with Drive-Through Window
- 2,400 SF Drive-in Bank
- 2 Fast Casual Restaurants at 2,500 SF each
- 5,000 SF Convenience Store/Gas Station w/12 fueling positions



Study Area

The study area is proposed to consist of the following intersections:

- Wait Avenue and Austin View Road
- Wait Avenue and Averette Road
- Averette Road and Old Pearce Road / Site Access E
- Averette Road and Kavanaugh Road
- Wait Avenue and Carrie May Lane / Site Access B
- Wait Avenue and Site Access A
- Wait Avenue and Site Access C
- Wait Avenue and Site Access D

Background Traffic Volumes

Traffic volumes will be estimated by projecting 2025 existing traffic volumes to the year 2031 using an annual growth rate. The attached historical AADT data from NCDOT indicates a growth rate of 3.8% in the study area.

DRMP recommends using a background growth rate of 2.5% per year based on engineering judgement. Several factors were considered when making this judgment. The area has seen high growth in the last 8 to 12 years. (3.8% per year). There are several approved developments in the area that are nearly built out which likely accounts for much of the historical growth. The proposed development will contribute to future growth in the area. A 2% growth rate is common in most places. Using a growth rate of 2.5% should account for future growth without over estimating. No trips from unbuilt portions of approved developments are recommended to be added to the 2.5% background traffic growth.

Future Roadway Improvements

No future roadway improvements were identified within the study area to consider under future traffic conditions.



Trip Generation

Average weekday daily, AM peak hour, and PM peak hour trips for the proposed development were estimated using methodology contained within the ITE Trip Generation Manual, 11th Edition. Several land uses were combined into the Shopping Plaza land use. Refer to Table 1 for a summary of the proposed site trip generation for full buildout of the proposed development. Internal Capture spreadsheets are attached. Pass-by Trips will be limited to 10% of the adjacent street traffic.

The internal capture calculations deviate from NCDOT Capacity Analysis Guidelines. The guidelines state that the walking distance should be the maximum distance between land uses. Internal capture for the PM peak hour was calculated based on the average walking distance; approximately 2,000 feet. NCHRP Report 684 states that the walking distance should be the average of the distances between land uses. Using the average distance resulted in an internal capture rate of 14% for the PM peak hour. The AM peak hour internal capture is typically less than the PM peak hour. An internal capture rate of 7% was chosen for the AM peak hour (half of the PM rate to remain).



Table 1: Trip Generation Summary

Land Use (ITE Code)	Intensity	Daily Traffic (vpd)	AM Pea	eekday k Hour (vph)		PM	/eekda Peak H ips (vp	lour
			Enter	Exit	Total	Enter	Exit	Total
Mini-Warehouse (151)	107,049 SF	155	6	4	10	8	8	16
Single-Family Detached Housing (210)	300 DU	2,772	51	151	202	176	103	279
Shopping Plaza with Supermarket (821)	84,600 SF	7,924	185	114	299	369	399	768
Convenience Store/Gas Station	12 Fueling Positions (5,000 sq. ft.)	3,502	141	142	283	136	137	273
Total Trips		14,353	383	411	794	689	647	1,336
Internal Ca (7% AM & 10	•		-28	-28	-56	-69	-65	-134
Total Externa	al Trips		355	383	738	620	582	1,202
Pass-By T	rips		-143	-143	-286	-220	-220	-440
Primary T	Primary Trips			240	452	400	362	762

Trip Distribution and Assignment

Site trips are distributed based on existing traffic patterns, population centers, and engineering judgment. Refer to the attached residential and commercial site trip distribution figures.



Analysis Scenarios

All capacity analyses will be performed utilizing Synchro (Version 11). All study intersections will be analyzed during the weekday AM and PM peak hours under the following traffic scenarios:

- 2025 Existing
- 2031 No-Build
- 2031 Build Scenario 1 (without Median)
- 2031 Build Scenario 2 (with Median)
- 2031 Build with Improvements

Report

The TIA report will be prepared based on Town and NCDOT requirements. The internal capture calculations deviate from NCDOT Capacity Analysis Guidelines, but are expected to provide more realistic results.

If you find this memorandum of understanding acceptable, please let me know so that we may include it in the TIA report. If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Andrew Eagle, PE, PTOE

Senior Traffic Analysis Project Manager

DRMP, Inc.

Attachments: Site Location Map

Site Plan

Growth Rate

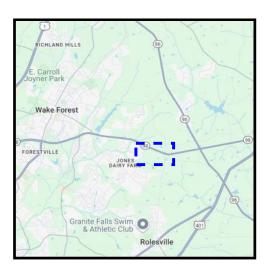
Internal Capture Spreadsheets

Residential Site Trip Distribution

Commercial Site Trip Distribution

Pass-By Site Trip Distribution

Cc: Meredith Gruber (Town of Rolesville)





LEGEND

Study Intersection Proposed Site Access

Study Area

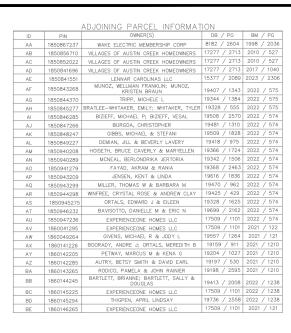




Wait Avenue Mixed-Use Rolesville, NC

Site Location Map

Scale: Not to Scale | Figure 1



COMMERCIAL

2.457 AC

	RESIDEN	
LINE #	LENGTH	DIRECTION
L1	273.29	N21° 35' 45"E
L2	288.95'	N68° 25' 12"W
L3	485.08"	N68° 36' 29"W
L4	56.53"	N68° 30' 35"W
L5	442.49"	N68° 23' 19"W
L6	62.94"	N66° 45' 05"W
L7	493.27	S 66° 17' 31"W
L8	120.37	S 66° 17' 31"W
L9	139.83	S 29° 02' 26"W
L10	62.39"	S 27° 04' 26"W
L11	85.05"	S 22° 30′ 36″E
L12	82.65"	S 35° 17' 49"W
L13	77.79'	S 66° 41' 13"W
L14	119.64	S 30° 41′ 32″W
L15	48.52"	S70° 24' 48"W
L16	58.77"	S07° 59′ 45″W
L17	84.46"	S 38° 16' 44"W
L18	44.78"	S19° 10′ 58″W
L19	26.68"	S76° 49′ 28″W
L20	63.59	S 27° 16' 11"W

COMMERCIAL LINE TABLE					
LINE #	LENGTH	DIRECTION			
L46	196.54	N05° 20' 11"E			
L47	133.48'	N69° 23' 18"W			
L48	248.70	N68° 22' 23"W			
L49	182.39	N68° 12' 44"W			
L50	200.40'	N68° 31' 07"W			
L51	308.80	N68° 30' 12"W			
L52	210.04	N68° 26' 44"W			
L53	273.29	S 21° 35' 45"W			
L54	464.36"	S67° 51' 27"E			
L55	28.27"	S22° 49' 54"E			
L56	421.22	S 22° 11' 38'W			
L57	395.14	S 20° 51' 04"W			
L58	353.08'	S89° 03' 29"E			
L59	69.22'	S88° 46' 48"E			
L60	51.37	S89° 20' 02"E			
L61	180.15'	S89° 03' 25"E			
L62	160.72	S89° 04' 00"E			
L63	76.42'	S88° 46' 32"E			
L64	79.04'	S89° 02' 22"E			
165	74.04	S88° 59' 25"F			

INE #	LENGTH	DIRECTION
L46	196.54	N05° 20' 11"E
L47	133.48'	N69° 23' 18"W
L48	248.70	N68° 22' 23"W
L49	182.39	N68° 12' 44"W
L50	200.40'	N68° 31' 07"W
L51	308.80'	N68° 30' 12"W
L52	210.04	N68° 26' 44"W
L53	273.29'	S 21° 35' 45"W
L54	464.36"	S67° 51° 27°E
L55	28.27"	S22° 49' 54"E
L56	421.22	S 22° 11' 38'W
L57	395.14	S 20° 51' 04"W
L58	353.08'	S89° 03' 29"E
L59	69.22'	S88° 46' 48"E
L60	51.37	S89° 20' 02"E
161	180 15'	S89° 03' 25"F

	LOL	100.72	307 04 00	-
	L63	76.42'	S88° 46' 32"	E
	L64	79.04	S89° 02' 22'	E
	L65	74.04	S88° 59' 25"	E
				_
	REV#	0/	NTF.	DESCRIPTION
-	KEV#	DF	II E	DESCRIPTION
1 01.31.2025		.2025	TOR REZ COMMENTS 1: 01.06.2025	

3 7 425 2022 / 374 8 7 1/25 2022 / 574 9 / 2162 2022 / 574 9 / 2162 2022 / 574 9 / 1101 2021 / 122 7 1/25 2021 / 121 9 / 1101 2021 / 121 9 / 91 / 2021 / 1210 4 / 1027 2021 / 1210 4 / 1027 2021 / 1210 8 / 2028 2022 / 1236 9 / 1101 2022 / 1238 9 / 1101 2022 / 1238 9 / 1101 2022 / 1238 9 / 1101 2022 / 1238 9 / 1101 2022 / 1238 9 / 1101 2022 / 1238 9 / 1101 2022 / 1238 9 / 1101 2021 / 121	107,049 SF	OPEN SPACE	PLANNED SIDEPATH (BY TOWN OF ROLESVILLE)	
RESIDENTIAL LINE TABLE LINE # LENGTH DIRECTION L41 821.67 S89 05 43E L42 395.14 N.20* 51° 04E L43 421.22 N.22* 11° 35E L44 28.27 N.22* 49 54°W L45 464.36 N.67° 51° 27°W	RESIDENTIAL 75.832 AC 3,303,252 SF	4.212 AC	22.751 AC	
AUSTIN ROCK PROMINY OF PUBLIC POR DEPARTMENT OF PUBLIC PU	OPEN SPACE 3.886 AC	60. PUBLIC ROW	COMMERCIAL 22.834 AC 994,669 SF	PLANNED SIDEPATH (BY TOWN OF ROLESVILLE) PLANNED SIKE LANE (BY TOWN OF ROLESVILLE) EX. 3F E.E. TO ROW RESERVATION
	134 135 136 137 138 139 140 140 140 140 140 140 140 140 140 140		L50 L60 L61 L62 L63 L64 L65 OF 1 10 10 10 10 10 10 10 10 10 10 10 10 1	

LEGEND:

OPEN SPACE

COMMERCIAL

RESIDENTIAL SINGLE FAMILY

EXISTING WETLANDS UNDISTURBED

EXISTING ENVIRONMENTAL UNDISTURBED



NC RE-ZONED AREAS POST R/W RESERVATION

RESIDENTIAL AREA

COMMERCIAL AREA

COMMERCIAL AREA

TOTAL AREA TO BE REZONED

TOTAL COMMERCIAL AREA

COMMERCIAL PERCENTAGE

75.832 AC

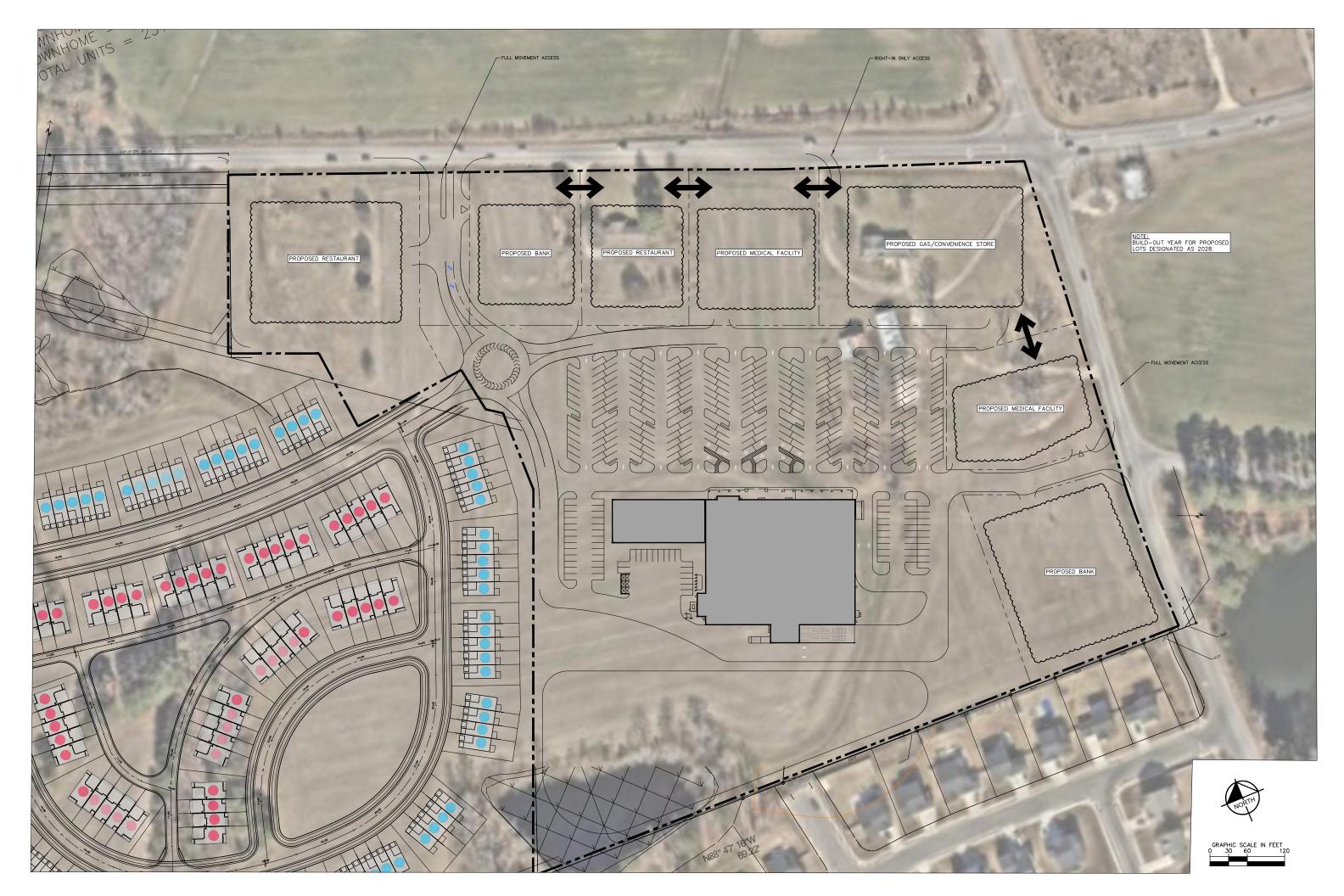
2.457 AC

22.834 AC

101.123 AC

25.291 AC

25.01%



HISTORICAL TRAFFIC GROWTH RATE

Year	Averette Road SR 1945 Station #: 0920001280	Old Pearce Road SR 2055 Station #: 0920000142	Wait Avenue NC 98 Station #: 0920001875	Wait Avenue NC 98 Station #: 0920000521
2011	4600	670	9800	12000
2012				
2013	2700	710		13000
2014				
2015	3,000	900		17000
2016				
2017	3,300			15000
2018				
2019	3,600		12500	17500
2020				15000
2021	3600		6900	18000
2022				
2023		1200	13000	19500
2013-2021	3.66%			
2011-2023		4.98%	2.4%	4.1%

3.8%
Average Growth Rate between Count Stations

	NCHRP 684 Internal Trip Capture Estimation Tool							
Project Name:	REZ-24-05		Organization:	DRMP				
Project Location:	Rolesville, NC		Performed By:	LK				
Scenario Description:			Date:	2/11/2025				
Analysis Year:			Checked By:	AE				
Analysis Period:	AM Street Peak Hour		Date:					

	Table '	1-A: Base Vehic	le-Trip Generation	n Est	timates (Single-Use Sit	e Estimate)	
Land Use	Developm	ent Data (<i>For Inf</i>	ormation Only)			Estimated Vehicle-Trips ³	
Land Use	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting
Office					0		
Retail	821/945	84.6k/5k	SF, SF		582	326	256
Restaurant				1 [0		
Cinema/Entertainment					0		
Residential	210	300	DU		202	51	151
Hotel					0		
All Other Land Uses ²	151	107k	SF		10	6	4
					794	383	411

	Table 2-A: Mode Split and Vehicle Occupancy Estimates							
Land Use		Entering Trip	os			Exiting Trips		
Land Ose	Veh. Occ.4	% Transit	% Non-Motorized	Ī	Veh. Occ. ⁴	% Transit	% Non-Motorized	
Office	1.10	0%	0%		1.10	0%	0%	
Retail	1.10	0%	0%		1.10	0%	0%	
Restaurant	1.10	0%	0%	Ī	1.10	0%	0%	
Cinema/Entertainment	1.10	0%	0%		1.10	0%	0%	
Residential	1.10	0%	0%		1.10	0%	0%	
Hotel	1.10	0%	0%		1.10	0%	0%	
All Other Land Uses ²	1.10	0%	0%		1.10	0%	0%	

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)								
Origin (Fram)	Destination (To)							
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel		
Office								
Retail								
Restaurant								
Cinema/Entertainment								
Residential								
Hotel								

Table 4-A: Internal Person-Trip Origin-Destination Matrix*									
Origin (Frame)		Destination (To)							
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office		0	0	0	0	0			
Retail	0		0	0	1	0			
Restaurant	0	0		0	0	0			
Cinema/Entertainment	0	0	0		0	0			
Residential	0	2	0	0		0			
Hotel	0	0	0	0	0				

Table 5-A: Computations Summary						
	Total	Entering	Exiting			
All Person-Trips	874	422	452			
Internal Capture Percentage	1%	1%	1%			
External Vehicle-Trips ⁵	789	381	408			
External Transit-Trips ⁶	0	0	0			
External Non-Motorized Trips ⁶	0	0	0			

Table 6-A: Internal Trip Capture Percentages by Land Use						
Land Use	Entering Trips	Exiting Trips				
Office	N/A	N/A				
Retail	1%	0%				
Restaurant	N/A	N/A				
Cinema/Entertainment	N/A	N/A				
Residential	2%	1%				
Hotel	N/A	N/A				

¹Land Use Codes (LUCs) from *Trip Generation Manual*, published by the Institute of Transportation Engineers.

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-A vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be made to Tables 5-A, 9-A (O and D). Enter transit, non-motorized percentages that will result with proposed mixed-use project complete.

Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas A&M Transportation Institute - Version 2013.1

Project Name:	REZ-24-05
Analysis Period:	AM Street Peak Hour

Table 7-A: Conversion of Vehicle-Trip Ends to Person-Trip Ends							
Land Llas	Tab	le 7-A (D): Enter	ing Trips		Table 7-A (O): Exiting Trips		
Land Use	Veh. Occ.	Vehicle-Trips	Person-Trips*		Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.10	0	0		1.10	0	0
Retail	1.10	326	359		1.10	256	282
Restaurant	1.10	0	0		1.10	0	0
Cinema/Entertainment	1.10	0	0		1.10	0	0
Residential	1.10	51	56		1.10	151	166
Hotel	1.10	0	0		1.10	0	0

Origin (France) Destination (To)							
Origin (From)	Office	Office Retail Restaurant Cinema/Entertainment Residential					
Office		0	0	0	0	0	
Retail	82		37	0	39	0	
Restaurant	0	0		0	0	0	
Cinema/Entertainment	0	0	0		0	0	
Residential	3	2	33	0		0	
Hotel	0	0	0	0	0		

Origin (From)				Destination (To)		
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		115	0	0	0	0
Retail	0		0	0	1	0
Restaurant	0	29		0	3	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	61	0	0		0
Hotel	0	14	0	0	0	

	Table 9-A (D): Internal and External Trips Summary (Entering Trips)								
Destination Land Use	1	Person-Trip Estimates			External Trips by Mode*				
Destination Land Use	Internal	External	Total		Vehicles ¹	Transit ²	Non-Motorized ²		
Office	0	0	0		0	0	0		
Retail	2	357	359		325	0	0		
Restaurant	0	0	0		0	0	0		
Cinema/Entertainment	0	0	0		0	0	0		
Residential	1	55	56		50	0	0		
Hotel	0	0	0		0	0	0		
All Other Land Uses ³	0	7	7		6	0	0		

Table 9-A (O): Internal and External Trips Summary (Exiting Trips)							
Origin Land Llan		Person-Trip Esti	mates		External Trips by Mode*		
Origin Land Use	Internal	External	Total	Vehicles ¹	Transit ²	Non-Motorized ²	
Office	0	0	0	0	0	0	
Retail	1	281	282	255	0	0	
Restaurant	0	0	0	0	0	0	
Cinema/Entertainment	0	0	0	0	0	0	
Residential	2	164	166	149	0	0	
Hotel	0	0	0	0	0	0	
All Other Land Uses ³	0	4	4	4	0	0	

¹Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

²Person-Trips

³Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.

	NCHRP 684 Internal Trip Capture Estimation Tool							
Project Name:	REZ-24-05		Organization:	DRMP				
Project Location:	Rolesville, NC		Performed By:	LK				
Scenario Description:			Date:	2/11/2025				
Analysis Year:			Checked By:	AE				
Analysis Period:	PM Street Peak Hour		Date:					

	Table 1	-P: Base Vehicl	e-Trip Generation	ı Es	timates (Single-Use Si	e Estimate)	
Land Use	Developm	Development Data (For Information Only)			Estimated Vehicle-Trips ³		
Land USE	ITE LUCs ¹	Quantity	Units		Total	Entering	Exiting
Office					0		
Retail	821/945	84.6k/5k	SF, SF		1,041	505	536
Restaurant					0		
Cinema/Entertainment					0		
Residential	210	300	DU		279	176	103
Hotel					0		
All Other Land Uses ²	151	107k	SF		16	8	8
					1,336	689	647

Table 2-P: Mode Split and Vehicle Occupancy Estimates								
Land Use		Entering Tri	ps		Exiting Trips			
Land Ose	Veh. Occ.4	% Transit	% Non-Motorized		Veh. Occ.4	% Transit	% Non-Motorized	
Office	1.10	0%	0%		1.10	0%	0%	
Retail	1.10	0%	0%		1.10	0%	0%	
Restaurant	1.10	0%	0%		1.10	0%	0%	
Cinema/Entertainment	1.10	0%	0%		1.10	0%	0%	
Residential	1.10	0%	0%		1.10	0%	0%	
Hotel	1.10	0%	0%		1.10	0%	0%	
All Other Land Uses ²	1.10	0%	0%		1.10	0%	0%	

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)							
Ocioin (Force) Destination (To)							
Origin (From)	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel	
Office		2000	2000		2000		
Retail					2000		
Restaurant					2000		
Cinema/Entertainment					2000		
Residential		2000	2000				
Hotel					2000		

Table 4-P: Internal Person-Trip Origin-Destination Matrix*								
Origin (From)	Destination (To)							
Origin (From)	Office	ice Retail Restaurant Cinema/Entertainment Residential Ho						
Office		0	0	0	0	0		
Retail	0		0	0	89	0		
Restaurant	0	0		0	0	0		
Cinema/Entertainment	0	0	0		0	0		
Residential	0	15	0	0		0		
Hotel	0	0	0	0	0			

Table 5-P: Computations Summary							
	Total	Entering	Exiting				
All Person-Trips	1,471	759	712				
Internal Capture Percentage	14%	14%	15%				
External Vehicle-Trips ⁵	1,147	595	552				
External Transit-Trips ⁶	0	0	0				
External Non-Motorized Trips ⁶	0	0	0				

Table 6-P: Internal Trip Capture Percentages by Land Use								
Land Use	Entering Trips	Exiting Trips						
Office	N/A	N/A						
Retail	3%	15%						
Restaurant	N/A	N/A						
Cinema/Entertainment	N/A	N/A						
Residential	46%	13%						
Hotel	N/A	N/A						

¹Land Use Codes (LUCs) from *Trip Generation Manual* , published by the Institute of Transportation Engineers.

²Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

³Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

⁴Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be ⁵Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

⁶Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas A&M Transportation Institute - Version 2013.1

Project Name:	REZ-24-05
Analysis Period:	PM Street Peak Hour

Table 7-P: Conversion of Vehicle-Trip Ends to Person-Trip Ends								
1 1 1	Table	Table 7-P (D): Entering Trips			Table 7-P (O): Exiting Trips			
Land Use	Veh. Occ.	Vehicle-Trips Person-Trips*		Veh. Occ.	Vehicle-Trips	Person-Trips*		
Office	1.10	0	0		1.10	0	0	
Retail	1.10	505	556		1.10	536	590	
Restaurant	1.10	0	0		1.10	0	0	
Cinema/Entertainment	1.10	0	0		1.10	0	0	
Residential	1.10	176	194		1.10	103	113	
Hotel	1.10	0	0		1.10	0	0	

Table 8-P (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)									
Origin (Franc)		Destination (To)							
Origin (From)	Office	Office Retail Restaurant Cinema/Entertainment Residential							
Office		0	0	0	0	0			
Retail	12		171	24	97	30			
Restaurant	0	0		0	0	0			
Cinema/Entertainment	0	0	0		0	0			
Residential	5	15	8	0		3			
Hotel	0	0	0	0	0				

Table 8-P (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)									
Origin (From)	Destination (To)								
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel			
Office		14	0	0	8	0			
Retail	0		0	0	89	0			
Restaurant	0	278		0	31	0			
Cinema/Entertainment	0	22	0		8	0			
Residential	0	18	0	0		0			
Hotel	0	11	0	0	0				

Table 9-P (D): Internal and External Trips Summary (Entering Trips)									
Destination Land Use	Person-Trip Estimates				External Trips by Mode*				
	Internal	External	Total	1	Vehicles ¹	Transit ²	Non-Motorized ²		
Office	0	0	0		0	0	0		
Retail	15	541	556		492	0	0		
Restaurant	0	0	0		0	0	0		
Cinema/Entertainment	0	0	0		0	0	0		
Residential	89	105	194		95	0	0		
Hotel	0	0	0		0	0	0		
All Other Land Uses ³	0	9	9		8	0	0		

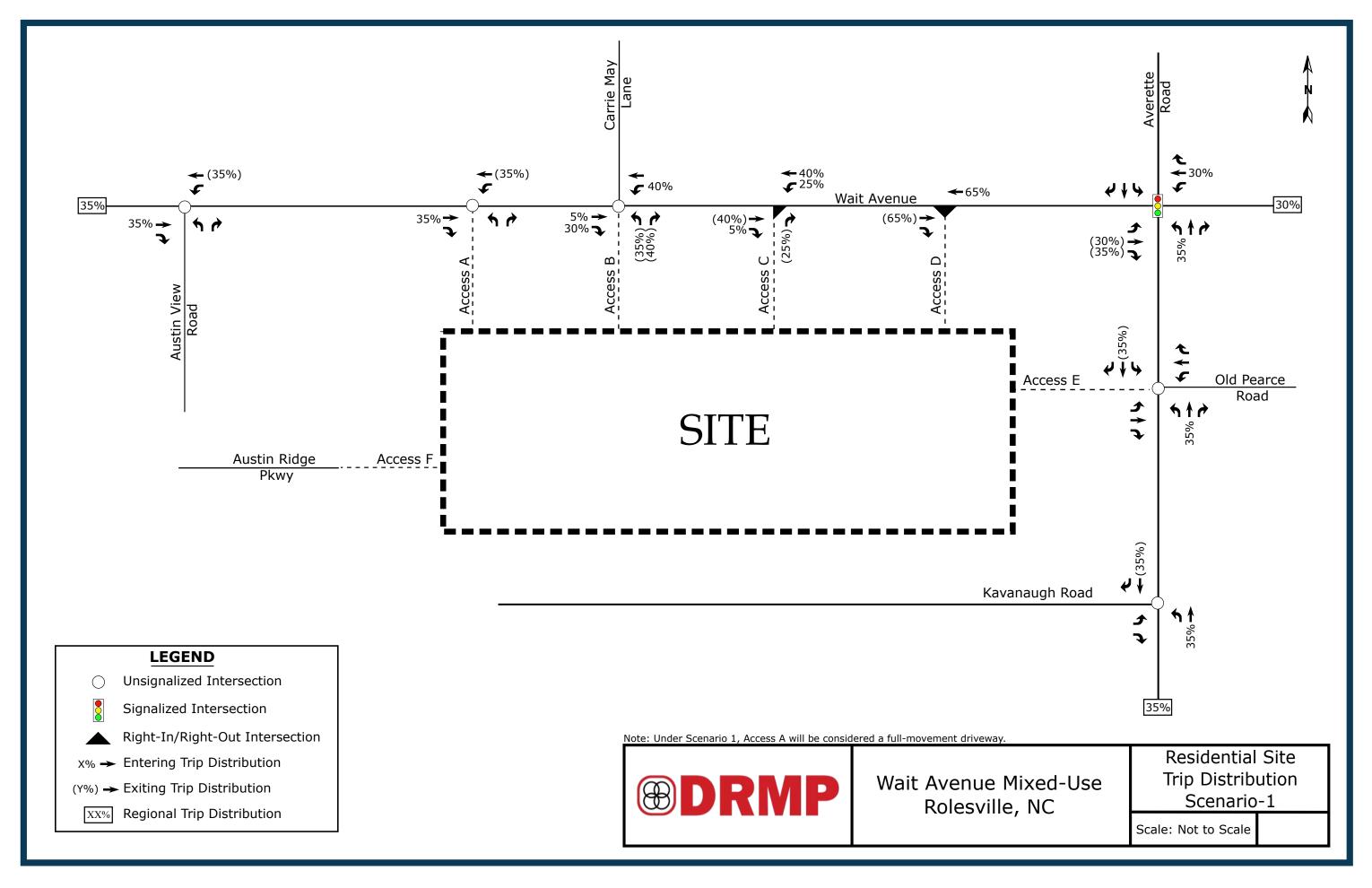
Table 9-P (O): Internal and External Trips Summary (Exiting Trips)								
Onimira I are di Hara	Person-Trip Estimates				External Trips by Mode*			
Origin Land Use	Internal	External	Total		Vehicles ¹	Transit ²	Non-Motorized ²	
Office	0	0	0		0	0	0	
Retail	89	501	590		455	0	0	
Restaurant	0	0	0		0	0	0	
Cinema/Entertainment	0	0	0		0	0	0	
Residential	15	98	113		89	0	0	
Hotel	0	0	0		0	0	0	
All Other Land Uses ³	0	9	9		8	0	0	

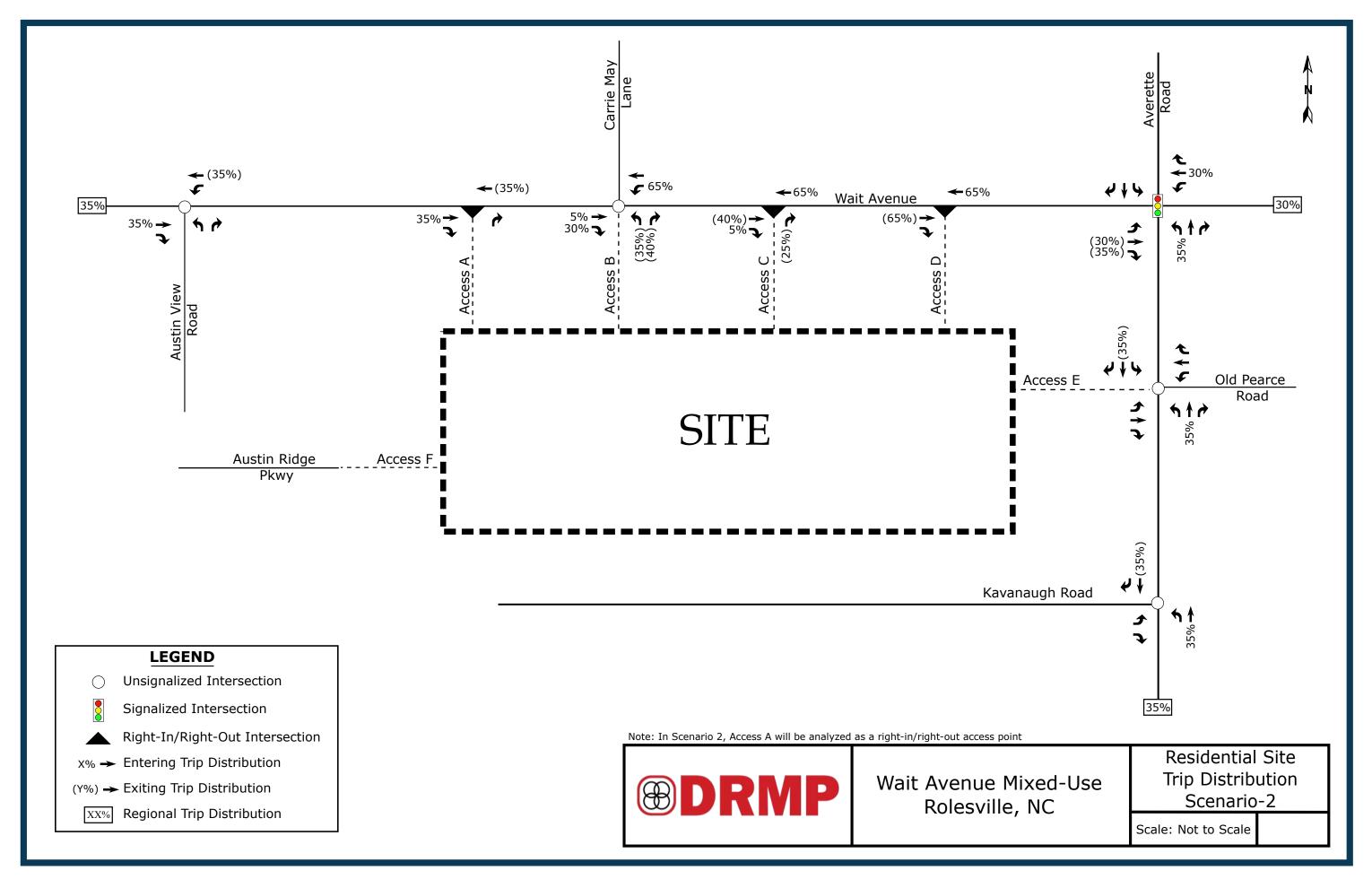
¹Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

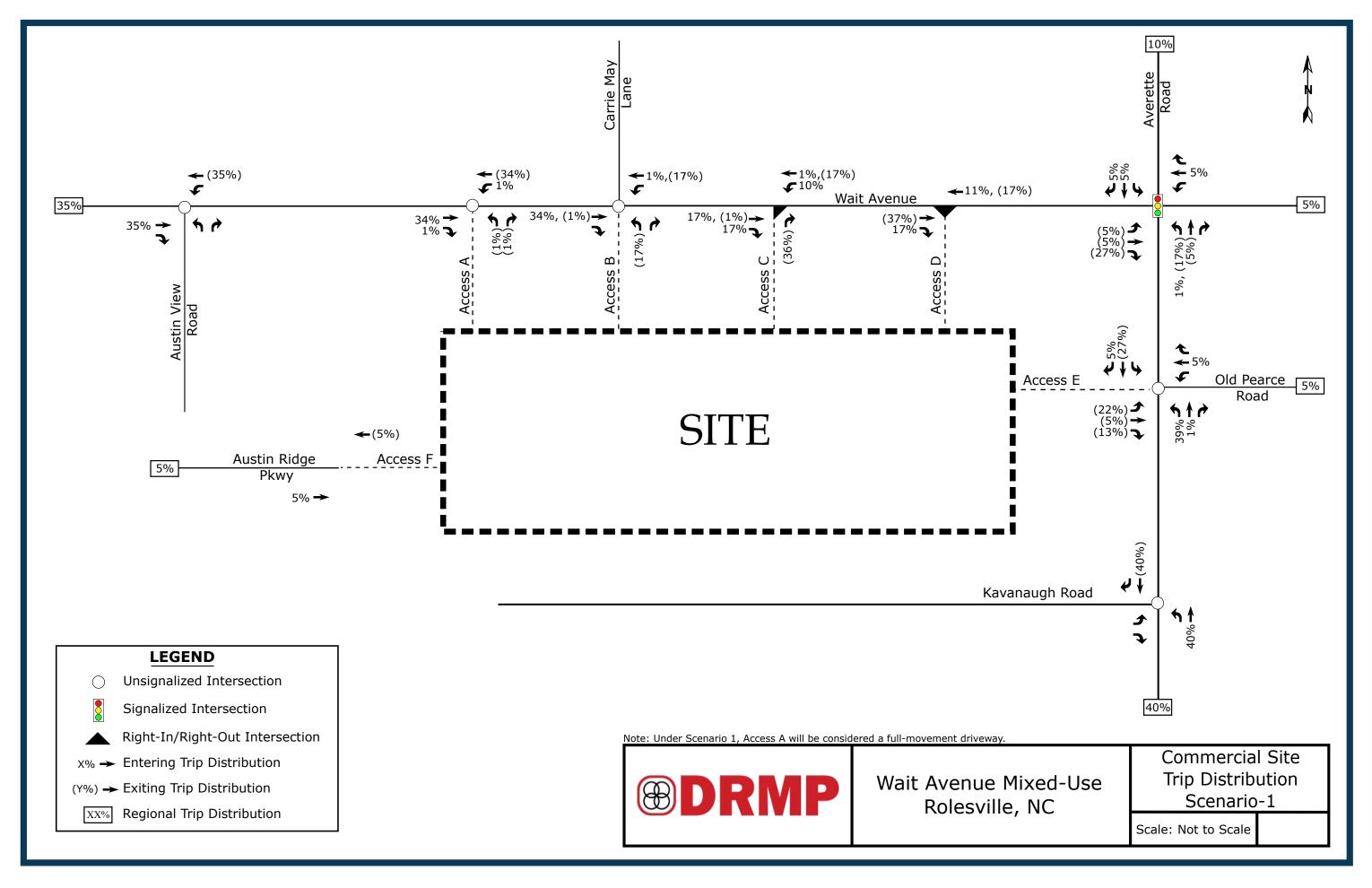
³Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator

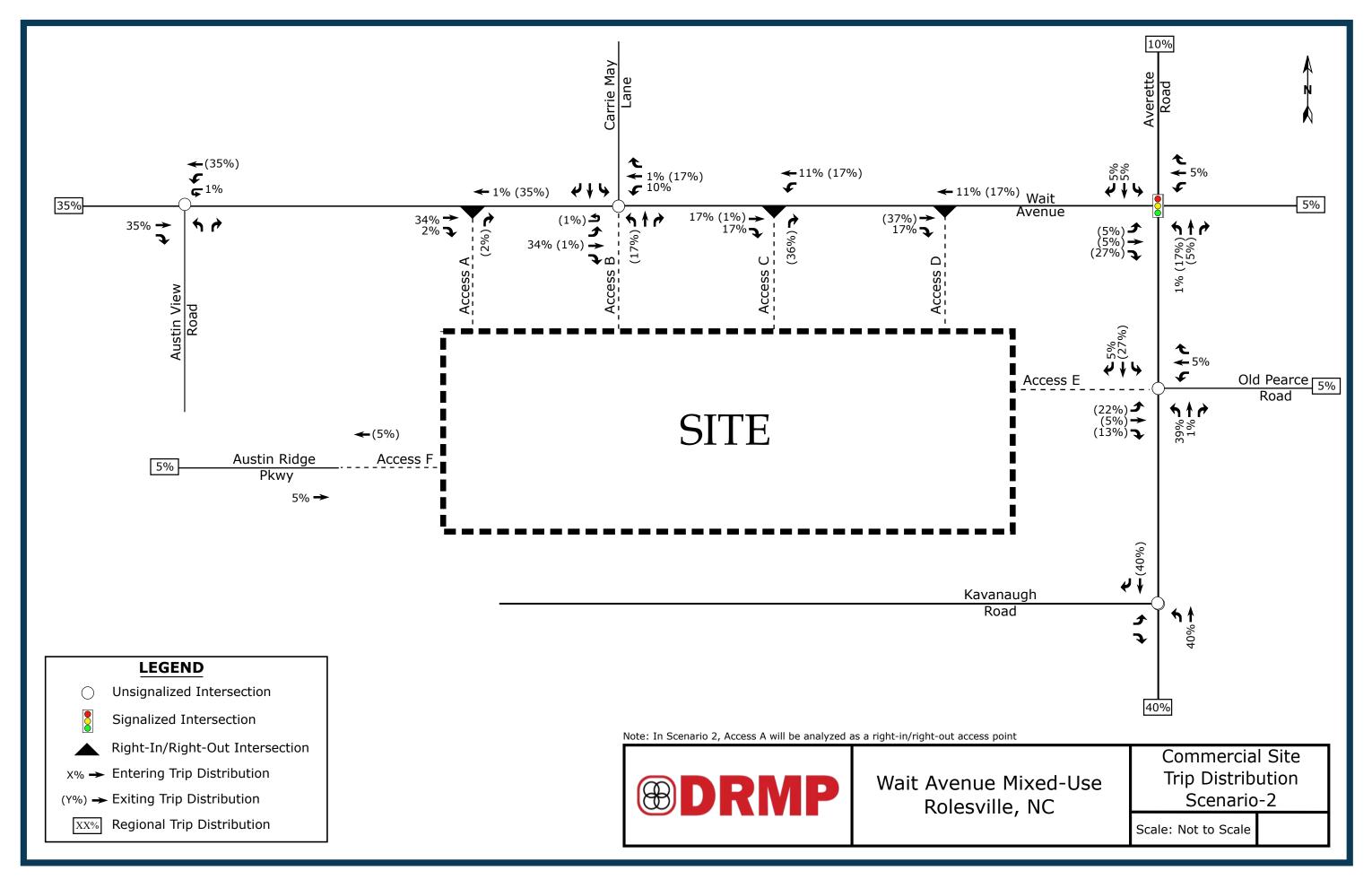
*Indicates computation that has been rounded to the nearest whole number.

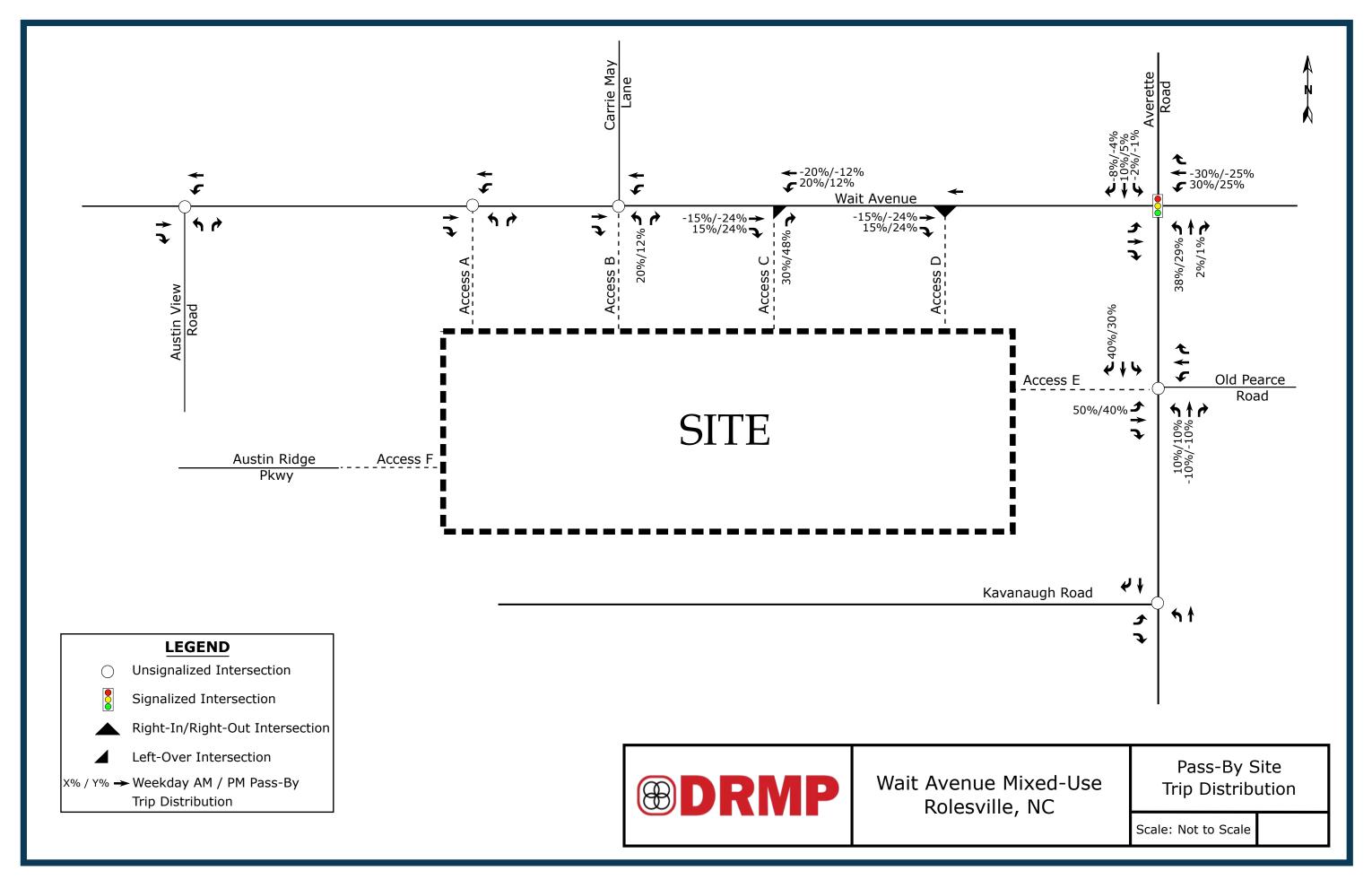
²Person-Trips











APPENDIX B

TRAFFIC COUNTS

Intersection Turning Movement Count

Location: Austin View Blvd & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(NB)

Project ID: 25-160032-001 Date: 5/7/2025

								Data ·	· Total								_
NS/EW Streets:		Austin Vi	ew Blvd			Austin V	iew Blvd			Wait Ave	e/SR 98			Wait Ave	e/SR 98		
		NORTH	BOUND			SOUTI	HBOUND			EASTE	BOUND			WESTE	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	28	0	6	0	0	0	0	0	0	129	5	0	0	233	0	0	401
7:15 AM	13	0	10	0	0	0	0	0	0	133	7	0	0	262	0	0	425
7:30 AM	11	0	10	1	0	0	0	0	0	142	11	0	3	252	0	0	430
7:45 AM	10	0	6	0	0	0	0	0	0	129	8	0	6	224	0	0	383
8:00 AM	9	0	11	0	0	0	0	0	0	110	4	0	7	186	0	0	327
8:15 AM	15	0	6	0	0	0	0	0	0	108	9	0	2	188	0	0	328
8:30 AM	14	0	11	0	0	0	0	0	0	110	10	0	4	214	0	0	363
8:45 AM	13	0	4	0	0	0	0	0	0	115	6	0	3	223	0	0	364
	NL	NT	NR	NU	SL	ST	SR	SU	FL.	ET	ER	FU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	113	0	64	1	0	0	0	0	0	976	60	0	25	1782	0	0	3021
APPROACH %'s:	63.48%	0.00%	35.96%	0.56%	·	Ü	· ·	· ·	0.00%	94.21%	5.79%	0.00%	1.38%	98.62%	0.00%	0.00%	
PEAK HR:	-	07:00 AM -	08:00 AM														TOTAL
PEAK HR VOL:	62	0	32	1	0	0	0	0	0	533	31	0	9	971	0	0	1639
PEAK HR FACTOR:	0.554	0.000	0.800	0.250	0.000	0.000	0.000	0.000	0.000	0.938	0.705	0.000	0.375	0.927	0.000	0.000	0.953
		0.6	99							0.9	22			0.9	35		0.933

		NORTH	BOUND			SOUTI	HBOUND			EASTE	BOUND			WESTE	BOUND		i
PM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	i '
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	10	0	5	0	0	0	0	0	0	197	18	0	13	127	0	0	370
4:15 PM	8	0	1	0	0	0	0	0	0	210	20	0	7	143	0	0	389
4:30 PM	12	0	3	0	0	0	0	0	0	191	15	0	9	162	0	0	392
4:45 PM	7	0	6	1	0	0	0	0	0	229	10	0	6	153	0	0	412
5:00 PM	12	0	5	0	0	0	0	0	0	199	18	0	8	153	0	0	395
5:15 PM	11	0	11	0	0	0	0	0	0	234	16	0	7	189	0	0	468
5:30 PM	5	0	4	1	0	0	0	0	0	179	20	0	5	159	0	0	373
5:45 PM	5	0	10	0	0	0	0	0	0	195	20	0	9	142	0	0	381
	NL	NT	NR	NU	SL	ST	SR	SU	FL.	FT	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	70	0	45	2	0	0	0	0	0	1634	137	0	64	1228	0	0	3180
APPROACH %'s:	59.83%	0.00%	38.46%	1.71%	_	-	_	-	0.00%	92.26%	7.74%	0.00%	4.95%	95.05%	0.00%	0.00%	
PEAK HR :		04:30 PM -	05:30 PM														TOTAL
PEAK HR VOL:	42	0	25	1	0	0	0	0	0	853	59	0	30	657	0	0	1667
PEAK HR FACTOR:	0.875	0.000	0.568	0.250	0.000	0.000	0.000	0.000	0.000	0.911	0.819	0.000	0.833	0.869	0.000	0.000	0.890
		0.7	73							0.9	12			0.8	76		0.030

Intersection Turning Movement Count

Location: Austin View Blvd & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(NB)

Project ID: 25-160032-001 Date: 5/7/2025

_								Data	- Cars								
NS/EW Streets:		Austin Vie	ew Blvd			Austin V	iew Blvd			Wait Ave	SR 98			Wait Ave	/SR 98		
		NORTH	BOUND			SOUTH	IBOUND			EASTE	OUND			WESTE	OUND		
AM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	28	0	6	0	0	0	0	0	0	124	5	0	0	227	0	0	390
7:15 AM	13	0	10	0	0	0	0	0	0	128	6	0	0	249	0	0	406
7:30 AM	10	0	10	1	0	0	0	0	0	134	11	0	3	245	0	0	414
7:45 AM	10	0	5	0	0	0	0	0	0	122	7	0	5	220	0	0	369
8:00 AM	9	0	10	0	0	0	0	0	0	103	3	0	7	178	0	0	310
8:15 AM	15	0	6	0	0	0	0	0	0	103	9	0	2	186	0	0	321
8:30 AM	14	0	11	0	0	0	0	0	0	108	10	0	3	207	0	0	353
8:45 AM	12	0	4	0	0	0	0	0	0	112	6	0	1	214	0	0	349
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	111	0	62	1	0	0	0	0	0	934	57	0	21	1726	0	0	2912
APPROACH %'s:	63.79%	0.00%	35.63%	0.57%					0.00%	94.25%	5.75%	0.00%	1.20%	98.80%	0.00%	0.00%	
PEAK HR :		07:00 AM -															TOTAL
PEAK HR VOL:	61	0	31	1	0	0	0	0	0	508	29	0	8	941	0	0	1579
PEAK HR FACTOR:	0.545	0.000	0.775	0.250	0.000	0.000	0.000	0.000	0.000	0.948	0.659	0.000	0.400	0.945	0.000	0.000	0.954
		0.68	34							0.9	26			0.9	53		0.551

		NORTH	BOUND			SOUTI	HBOUND			EASTE	BOUND			WESTE	BOUND		
PM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	10	0	4	0	0	0	0	0	0	191	16	0	13	120	0	0	354
4:15 PM	7	0	0	0	0	0	0	0	0	204	20	0	7	141	0	0	379
4:30 PM	10	0	3	0	0	0	0	0	0	184	15	0	9	160	0	0	381
4:45 PM	7	0	6	1	0	0	0	0	0	224	10	0	6	151	0	0	405
5:00 PM	11	0	5	0	0	0	0	0	0	194	18	0	7	148	0	0	383
5:15 PM	11	0	11	0	0	0	0	0	0	231	16	0	7	185	0	0	461
5:30 PM	5	0	4	1	0	0	0	0	0	175	20	0	4	157	0	0	366
5:45 PM	5	0	10	0	0	0	0	0	0	184	20	0	9	142	0	0	370
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	66	0	43	2	0	0	0	0	0	1587	135	0	62	1204	0	0	3099
APPROACH %'s:	59.46%	0.00%	38.74%	1.80%					0.00%	92.16%	7.84%	0.00%	4.90%	95.10%	0.00%	0.00%	
PEAK HR :		04:30 PM -	05:30 PM														TOTAL
PEAK HR VOL:	39	0	25	1	0	0	0	0	0	833	59	0	29	644	0	0	1630
PEAK HR FACTOR:	0.886	0.000	0.568	0.250	0.000	0.000	0.000	0.000	0.000	0.902	0.819	0.000	0.806	0.870	0.000	0.000	0.884
		0.7	39							0.9	03			0.8	76		0.007

Intersection Turning Movement Count

Location: Austin View Blvd & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(NB)

0 0 0.000 0.000 0.375

Project ID: 25-160032-001 Date: 5/7/2025

1 13 0 0.250 0.650 0.000 0.583

20 0 0.714 0.000 0.714

Control:	1-Way Stop	(NB)												Date:	5/7/2025		
-								Data	<u> - HT</u>								
NS/EW Streets:		Austin Vi	ew Blvd			Austin V	iew Blvd			Wait Ave	/SR 98			Wait Ave	/SR 98		
		NORTH	IBOUND			SOUT	HBOUND			EASTB	OUND			WESTE	OUND		
AM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	5	0	0	0	6	0	0	11
7:15 AM	0	0	0	0	0	0	0	0	0	5	1	0	0	13	0	0	19
7:30 AM	1	0	0	0	0	0	0	0	0	8	0	0	0	7	0	0	16
7:45 AM	0	0	1	0	0	0	0	0	0		1	0	1	4	0	0	14
8:00 AM	0	0	1	0	0	0	0	0	0	7	1	0	0	8	0	0	17
8:15 AM 8:30 AM	0	0	0	0	0	0	0	0	0	5 2	0	0	0	2	0	0	7
8:30 AM 8:45 AM	0		0	0	0		0	0	0	3	0	0	1	9	0	0	10
8:45 AM	1	0	0	U	0	0	U	U	0	3	U	U	2	9	0	0	15
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	2	0	2	0	0	0	0	0	0	42	3	0	4	56	0	0	109
APPROACH %'s:	50.00%	0.00%	50.00%	0.00%					0.00%	93.33%	6.67%	0.00%	6.67%	93.33%	0.00%	0.00%	
PEAK HR :		07:00 AM -	MA 00:80														TOTAL
PEAK HR VOL:	1	0	1	0	0	0	0	0	0	25	2	0	1	30	0	0	60
PEAK HR FACTOR :	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.781	0.500	0.000	0.250	0.577	0.000	0.000	0.789
		0.5	00							0.84	14			0.59	96		
		NORTH	IBOUND			SOUT	HBOUND			EASTB	OUND			WESTE	OUND		
PM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	1	0	0	0	0	0	0	6	2	0	0	7	0	0	16
4:15 PM	1	0	1	0	0	0	0	0	0	6	0	0	0	2	0	0	10
4:30 PM	2	0	0	0	0	0	0	0	0	7	0	0	0	2	0	0	11
4:45 PM	0	0	0	0	0	0	0	0	0	5	0	0	0	2	0	0	7
5:00 PM	1	0	0	0	0	0	0	0	0	5	0	0	1	5	0	0	12
5:15 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	7
5:30 PM	0	0	0	0	0	0	0	0	0	4	•	0	1	2	0	0	7
5:45 PM	0	U	U	0	0	U	U	0	U	11	0	U	0	U	U	0	11
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	4	0	2	0	0	0	0	0	0	47	2	0	2	24	0	0	81
APPROACH %'s:	66.67%	0.00%	33.33%	0.00%					0.00%	95.92%	4.08%	0.00%	7.69%	92.31%	0.00%	0.00%	
PEAK HR :		04:30 PM -															TOTAL
PEAK HR VOL:	3	0	0	0	0	0	0	0	0	20	0	0	1	13	0	0	37
PEAK HR FACTOR:	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.714	0.000	0.000	0.250	0.650	0.000	0.000	0.771
		0.3	75							0.7	14			0.58	33		

Intersection Turning Movement Count

Location: Austin View Blvd & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(NB)

Project ID:	25-160032-001
Date:	5/7/2025

-								vata -	Bikes								
NS/EW Streets:		Austin V	iew Blvd			Austin V	iew Blvd			Wait Av	re/SR 98			Wait Av	re/SR 98		
		NORTI	HBOUND			SOUTH	HBOUND			EAST	BOUND			WEST	BOUND		
AM	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM 8:30 AM	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s:																	
PEAK HR :			- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		NORTI	HROLIND		1	SOLITI	HROLIND		1	FAST	ROLIND			WEST	BOLIND		
PM	0	NORTI	HBOUND 0	0	0		HBOUND 0	0	0	EAST	BOUND 1	0	1	WEST	BOUND	0	
PM	0 NL	1	0	0 NU	0 SI	0	0		0 FL	1	1	0 FU	1 WL	WEST 1 WT	0	0 WU	TOTAL
PM 4:00 PM				0 NU 0	0 SL 0			0 SU 0	0 EL 0	EAST 1 ET 0	BOUND 1 ER 0	0 EU 0		1		0 WU 0	TOTAL 0
	NL	1 NT	0 NR	NU	SL	0 ST	0 SR	SU	EL	1 ET	1 ER	EU	WL	1 WT	0 WR	WU	
4:00 PM 4:15 PM 4:30 PM	NL 0	1 NT 0	NR 0	NU 0	SL 0	0 ST 0 0	O SR O	SU 0	EL 0	1 ET 0	1 ER 0	EU 0	WL 0	1 WT 0	WR 0	WU 0	0
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0	1 NT 0 0 0 0	0 NR 0 0 0	NU 0 0 0	SL 0 0 0 0	0 ST 0 0 0	0 SR 0 0 0	SU 0 0 0 0	0 0 0 0	1 ET 0 0 0 0	1 ER 0 0 0	0 0 0 0	WL 0 0 0 0	1 WT 0 0 0 0	0 WR 0 0 0	WU 0 0 0 0	0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0 0	1 NT 0 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0	SL 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0	0 0 0 0 0	1 ET 0 0 0 0	1 ER 0 0 0 0	0 0 0 0 0	WL 0 0 0 0	1 WT 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	1 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	1 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0 0	WU 0 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	1 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	0 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	1 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0 0	WU 0 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	1 ER 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NL	1 NT 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0	1 ER 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
4:00 PM 4:15 PM 4:35 PM 4:30 PM 4:45 PM 5:00 PM 5:30 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NL	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0	1 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 1	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	1 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:35 PM 4:30 PM 4:45 PM 5:00 PM 5:30 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	1 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 TOTAL 0

Intersection Turning Movement Count

Location: Austin View Blvd & Wait Ave/SR 98
City: Wake Forest

Project ID: 25-160032-001
Date: 5/7/2025

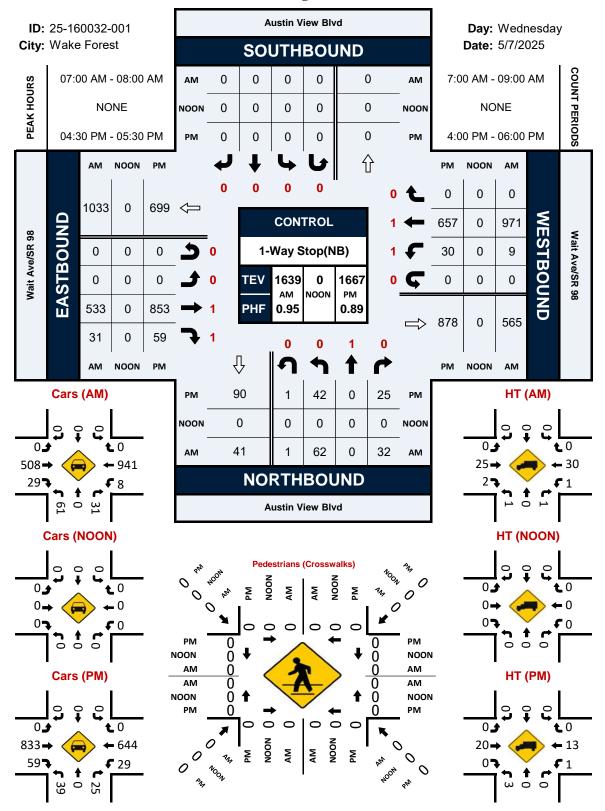
Data - Pedestrians (Crosswalks)

NS/EW Streets:	Austin V	/iew Blvd	Austin \	View Blvd	Wait Av	re/SR 98	Wait Av	e/SR 98	
AM	_	TH LEG		TH LEG	_	Γ LEG	_	T LEG	TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR:	07:00 AM	- 08:00 AM							TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:								,	

PM	NOR	TH LEG	SOUT	'H LEG	EAST	LEG	WEST	T LEG	
PIVI	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR:	04:30 PM	- 05:30 PM							TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Austin View Blvd & Wait Ave/SR 98

Peak Hour Turning Movement Count



Location: Austin View Blvd & Wait Ave/SR 98
City: Wake Forest
Day: Wednesday
Date: 5/7/2025

Groups Printed - Cars, PU, Vans - Heavy Trucks
Austin View Blvd Wait Ave/Si Austin View Blvd Wait Ave/SR 98 Wait Ave/SR 98 Northbound Southbound Eastbound Westbound Start Time Left Thru Rgt Uturn Peds App. Total Left Thru Rgt Uturn Peds App. Total Left Thru Rgt Uturn Peds App. Total Int. Total 425 7:15 AM 22 16 153 7:30 AM 3 252 1639 7:45 AM 20 21 25 17 Total 8:00 AM 120 121 8:15 AM Ö Ö 214 8:30 AM Ö Ö Ö Ö Ö Ö 8:45 AM Total ***BREAK*** 0 197 0 210 0 191 4:00 PM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 20 15 0 0 0 215 0 230 0 206 13 127 7 143 9 162 150 171 392 4:15 PM 4:30 PM

	4:45 PM	7	0	6	1	0	14	0	0	0	0	0	0	0	229	10	0	0	239	6	153	0	0	0	159	412
	Total	37	0	15	1	0	53	0	0	0	0	0	0	0	827	63	0	0	890	35	585	0	0	0	620	1563
	5:00 PM	12	0	5	0	0	17	0	0	0	0	0	0	0	199	18	0	0	217	8	153	0	0	0	161	395
	5:15 PM	11	0	11	0	0	22	0	0	0	0	0	0	0	234	16	0	0	250	7	189	0	0	0	196	468
	5:30 PM	5	0	4	1	0	10	0	0	0	0	0	0	0	179	20	0	0	199	5	159	0	0	0	164	373
	5:45 PM	5	0	10	0	0	15	0	0	0	0	0	0	0	195	20	0	0	215	9	142	0	0	0	151	381
	Total	33	0	30	1	0	64	0	0	0	0	0	0	0	807	74	0	0	881	29	643	0	0	0	672	1617
	•																								·-·	
(Grand Total	183	0	109	3	0	295	0	0	0	0	0	0	0	2610	197	0	0	2807	89	3010	0	0	0	3099	6201
	Apprch %	62.0	0.0	36.9	1.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	93.0	7.0	0.0	0.0		2.9	97.1	0.0	0.0	0.0		
	Total %	3.0	0.0	1.8	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1	3.2	0.0	0.0	45.3	1.4	48.5	0.0	0.0	0.0	50.0	
Car	s, PU, Vans	177	0	105	3		285	0	0	0	0		0	0	2521	192	0		2713	83	2930	0	0		3013	6011
% C	Cars, PU, Vans	96.7	0.0	96.3	100.0		96.6	0.0	0.0	0.0	0.0		0.0	0.0	96.6	97.5	0.0		96.7	93.3	97.3	0.0	0.0		97.2	96.9
Н	leavy trucks	6	0	4	0		10	0	0	0	0		0	0	89	5	0		94	6	80	0	0		86	190
	%Heavy trucks	3.3	0.0	3.7	0.0		3.4	0.0	0.0	0.0	0.0		0.0	0.0	3.4	2.5	0.0		3.3	6.7	2.7	0.0	0.0		2.8	3.1
	•																		-						· · ·	

Intersection Turning Movement Count

Location: Carrie May Ln & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(SB)

Project ID: 25-160032-002 Date: 5/7/2025

-								Data -	· Total								_,
NS/EW Streets:		Carrie	May Ln			Carrie M	lay Ln			Wait Ave	SR 98			Wait Ave	/SR 98		
		NORT	HBOUND			SOUTH	BOUND			EASTE	OUND			WESTE	BOUND		
AM	0 NL	0 NT	0 NR	0 NU	0 SL	1 ST	0 SR	0 SU	0 EL	1 FT	0 ER	0 EU	0 WL	1 WT	0 WR	0 WU	TOTAL
7:00 AM	INL.	0	NIK.	0	0 0	<u> </u>	1	0	0	124	n LR	0	O O	229	1	0	355
7:15 AM	0	ň	ň	Ö	Ŏ	n	2	0	1	141	ň	0	ň	272	î	0	417
7:30 AM	Ô	ň	ň	Ô	ő	Ô	ō	0	ñ	164	ň	Ô	ő	243	ñ	ő	407
7:45 AM	Ö	ŏ	ŏ	Ŏ	1	Ö	Ö	Ö	ő	136	Ŏ	ő	ŏ	229	Ŏ	Ö	366
8:00 AM	0	0	0	0	0	0	0	0	0	116	0	0	0	202	0	0	318
8:15 AM	0	0	0	0	1	Ó	1	Ó	0	119	0	0	0	187	0	Ó	308
8:30 AM	0	0	0	0	0	0	0	0	0	120	0	0	0	217	0	0	337
8:45 AM	0	0	0	0	1	0	1	0	0	109	0	0	0	222	1	0	334
	NL	NT	NR	NU	SL	ST	SR	SU	EL	FT	FR	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	3	0	5	0	1	1029	0	0	0	1801	3	0	2842
APPROACH %'s:				-	37.50%	0.00%	62.50%	0.00%	0.10%	99.90%	0.00%	0.00%	0.00%	99.83%	0.17%	0.00%	
PEAK HR :		07:00 AM	- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	1	0	3	0	1	565	0	0	0	973	2	0	1545
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.250	0.000	0.375	0.000	0.250	0.861	0.000	0.000	0.000	0.894	0.500	0.000	0.926
						0.50	00			0.8	63			0.8	93		0.920

		NORTE	HBOUND			SOUTH	BOUND			EASTE	BOUND			WEST	BOUND		
PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	199	0	0	0	144	0	0	343
4:15 PM	0	0	0	0	1	0	0	0	0	217	0	0	0	154	0	0	372
4:30 PM	0	0	0	0	1	0	0	0	2	196	0	0	0	167	0	0	366
4:45 PM	0	0	0	0	2	0	2	0	1	235	0	0	0	163	0	0	403
5:00 PM	0	0	0	0	0	0	1	0	0	193	0	0	0	159	0	0	353
5:15 PM	0	0	0	0	1	0	0	0	0	243	0	0	0	192	1	0	437
5:30 PM	0	0	0	0	0	0	2	0	2	184	0	0	0	156	0	0	344
5:45 PM	0	0	0	0	2	0	0	0	1	198	0	0	0	155	2	0	358
	NL	NT	NR	NU	SL	ST	SR	SU	EL	FT	FR	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	7	0	5	0	6	1665	0	0	0	1290	3	0	2976
APPROACH %'s:					58.33%	0.00%	41.67%	0.00%	0.36%	99.64%	0.00%	0.00%	0.00%	99.77%	0.23%	0.00%	
PEAK HR :		04:30 PM	- 05:30 PM														TOTAL
PEAK HR VOL:	0	0	0	0	4	0	3	0	3	867	0	0	0	681	1	0	1559
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.500	0.000	0.375	0.000	0.375	0.892	0.000	0.000	0.000	0.887	0.250	0.000	0.892
					-	0.43	38			0.8	95			0.8	83		0.032

Intersection Turning Movement Count

Location: Carrie May Ln & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(SB)

Project ID: 25-160032-002 Date: 5/7/2025

								Data	- Cars								_
NS/EW Streets:		Carrie	May Ln			Carrie N	1ay Ln			Wait Ave	/SR 98			Wait Ave	e/SR 98		
		NORT	HBOUND			SOUTH	BOUND			EASTB	OUND			WESTE	BOUND		
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	1	0	0	119	0	0	0	222	1	0	343
7:15 AM	0	0	0	0	0	0	2	0	1	137	0	0	0	261	1	0	402
7:30 AM	0	0	0	0	0	0	0	0	0	155	0	0	0	236	0	0	391
7:45 AM	0	0	0	0	1	0	0	0	0	128	0	0	0	225	0	0	354
8:00 AM	0	0	0	0	0	0	0	0	0	109	0	0	0	191	0	0	300
8:15 AM	0	0	Ō	Ó	1	0	1	Ó	0	113	0	Ó	0	183	0	Ó	298
8:30 AM	0	0	0	0	0	0	0	0	0	118	0	0	0	209	0	0	327
8:45 AM	0	0	0	0	1	0	1	0	0	105	0	0	0	212	1	0	320
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	3	0	5	0	1	984	0	0	0	1739	3	0	2735
APPROACH %'s:		-			37.50%	0.00%	62.50%	0.00%	0.10%	99.90%	0.00%	0.00%	0.00%	99.83%	0.17%	0.00%	
PEAK HR :		07:00 AM	- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	1	0	3	0	1	539	0	0	0	944	2	0	1490
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.250	0.000	0.375	0.000	0.250	0.869	0.000	0.000	0.000	0.904	0.500	0.000	0.927
						0.5	00			0.8	71			0.9	03		0.927

NL NT NR NU SL ST SR SU EL ET ER EU WL WT WR WU TOTA NI SL ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR SR ST SR SU EL ET ER EU WL WT WR WU TOTA NI ST SR SR ST			NORT	HBOUND			SOUTH	BOUND			EASTE	BOUND			WESTE	BOUND		
4:00 PM	PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
## 4:15 PM		NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:30 PM	4:00 PM	0	0	0	0	0	0	0	0	0	192	0	0	0	139	0	0	331
4:45 PM	4:15 PM	0	0	0	0	1	0	0	0	0	210	0	0	0	152	0	0	363
5:00 PM	4:30 PM	0	0	0	0	1	0	0	0	2	189	0	0	0	163	0	0	355
5:15 PM 0 0 0 0 0 1 1 0 0 0 0 22 0 239 0 0 0 188 1 0 429 5:30 PM 0 0 0 0 0 0 0 2 0 0 2 181 0 0 0 153 0 0 338 5:45 PM 0 0 0 0 0 0 2 0 0 0 1 186 0 0 0 155 2 0 338 NL NT NR NU SL ST SR SU EL ET ER EU WL WT WR WU TOTAL VOLUMES: APPROACH 96's: 58.33% 0.00% 41.67% 0.00% 0.37% 99.63% 0.00% 0.00% 99.76% 0.24% 0.00% PEAK HR: 04:30 PM - 05:30 PM PEAK HR VOL: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4:45 PM	0	0	0	0	2	0	2	0	1	230	0	0	0	161	0	0	396
5:30 PM 0 0 0 0 0 0 0 2 0 2 181 0 0 0 153 0 0 388 5:45 PM 0 0 0 0 0 2 0 0 1 186 0 0 0 155 2 0 384 0 0 0 155 2 0 0 346 0 0 0 155 2 0 0 346 0 0 0 155 2 0 0 346 0 0 0 155 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5:00 PM	0	0	0	0	0	0	1	0	0	190	0	0	0	154	0	0	345
5:45 PM 0 0 0 0 0 2 0 0 0 1 186 0 0 0 155 2 0 346 NL NT NR NU SL ST SR SU EL ET ER EU WL WT WR WU TOTAL VOLUMES: 0 0 0 0 0 5 0 6 1617 0 0 0 1265 3 0 290: 58.33% 0.00% 41.67% 0.00% 0.37% 99.63% 0.00% 0.00% 99.76% 0.24% 0.00%		0	0	0	0	1	0	0	0	0	239	0	0	0		1	0	
NL NT NR NU SL ST SR SU EL ET ER EU WL WT WR WU TOTAL VOLUMES: 0 0 0 0 0 0 7 0 5 0 0 6 1617 0 0 0 1265 3 0 2900	5:30 PM	0	0	0	0	0	0	2	0	2	181	0	0	0	153	0	0	338
TOTAL VOLUMES: 0 0 0 0 0 7 0 5 0 6 1617 0 0 0 1265 3 0 290: APPROACH 96's: S 0 0 0 0 0 0 58.33% 0.00% 41.67% 0.00% 0.37% 99.63% 0.00% 0.00% 99.76% 0.24% 0.00% PEAK HR: 04:30 PM - 05:30 PM PEAK HR VOL: 0 0 0 0 0 4 0 3 8 0 3 848 0 0 0 0 666 1 0 0 1525 PEAK HR VOL: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5:45 PM	0	0	0	0	2	0	0	0	1	186	0	0	0	155	2	0	346
APPROACH %'s: 58.33% 0.00% 41.67% 0.00% 0.37% 99.63% 0.00% 0.00% 99.76% 0.24% 0.00% PEAK HR: 04:30 PM - 05:30 PM PEAK HR VOL: 0 0 0 0 4 0 3 0 3 848 0 0 0 666 1 0 1525		NL	NT	NR	NU	SL	ST	SR	SU	EL		ER	EU	WL	WT	WR	WU	TOTAL
PEAK HR: 04:30 PM - 05:30 PM	TOTAL VOLUMES :	0	0	0	0	7	0	5	0				0	0		3		2903
PEAK HR VOL: 0 0 0 0 4 0 3 0 3 848 0 0 0 666 1 0 1525	APPROACH %'s:					58.33%	0.00%	41.67%	0.00%	0.37%	99.63%	0.00%	0.00%	0.00%	99.76%	0.24%	0.00%	
PEAK UP FACTOR 0.000 0.000 0.000 0.000 0.000 0.375 0.000 0.375 0.000 0.000 0.000 0.000 0.000	PEAK HR:		04:30 PM	- 05:30 PM	l													TOTAL
PEAK HR FACTOR: 0.000 0.000 0.000 0.000 0.500 0.000 0.375 0.000 0.375 0.887 0.000 0.000 0.000 0.886 0.250 0.000	PEAK HR VOL:	0	0	0	0	4	0	3	0	3	848	0	0	0	666	1	0	1525
	PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.500	0.000	0.375	0.000	0.375	0.887	0.000	0.000	0.000	0.886	0.250	0.000	0.889
0.438 0.890 0.882						•	0.4	38			0.8	90			0.8	82		0.009

Intersection Turning Movement Count

Location: Carrie May Ln & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(SB)

Project ID: 25-160032-002 Date: 5/7/2025

								Data	- HT								_
NS/EW Streets:		Carrie	May Ln			Carrie	May Ln			Wait Ave	e/SR 98			Wait Ave	SR 98		
		NORT	HBOUND			SOUTH	HBOUND			EASTE	BOUND			WESTE	BOUND		
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	5	0	0	0	7	0	0	12
7:15 AM	0	0	0	0	0	0	0	0	0	4	0	0	0	11	0	0	15
7:30 AM	0	0	0	0	0	0	0	0	0	9	0	0	0	7	0	0	16
7:45 AM	0	0	0	0	0	0	0	0	0	8	0	0	0	4	0	0	12
8:00 AM	0	0	0	0	0	0	0	0	0	7	0	0	0	11	0	0	18
8:15 AM	0	0	0	0	0	0	0	0	0	6	0	0	0	4	0	0	10
8:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	8	0	0	10
8:45 AM	0	0	0	0	0	0	0	0	0	4	0	0	0	10	0	0	14
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	45	0	0	0	62	0	0	107
APPROACH %'s:									0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR:		07:00 AM	- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	26	0	0	0	29	0	0	55
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.722	0.000	0.000	0.000	0.659	0.000	0.000	0.859

		NORTI	HBOUND			SOUTI	HBOUND			EASTE	BOUND			WEST	BOUND		
PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	7	0	0	0	5	0	0	12
4:15 PM	0	0	0	0	0	0	0	0	0	7	0	0	0	2	0	0	9
4:30 PM	0	0	0	0	0	0	0	0	0	7	0	0	0	4	0	0	11
4:45 PM	0	0	0	0	0	0	0	0	0	5	0	0	0	2	0	0	7
5:00 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	5	0	0	8
5:15 PM	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	8
5:30 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	6
5:45 PM	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	48	0	0	0	25	0	0	73
APPROACH %'s:									0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR:		04:30 PM	- 05:30 PM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	19	0	0	0	15	0	0	34
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.679	0.000	0.000	0.000	0.750	0.000	0.000	0.773
										0.6	79			0.7	50		,5

Intersection Turning Movement Count

Location: Carrie May Ln & Wait Ave/SR 98 City: Wake Forest Control: 1-Way Stop(SB)

Project ID: 25-160032-002

	Da	ite: 5/7/2025
il.aa		

_								Data -	Bikes								_
NS/EW Streets:		Carrie	May Ln			Carrie	May Ln			Wait Av	re/SR 98			Wait Av	e/SR 98		
		NORT	HBOUND			SOUTI	HBOUND			EAST	BOUND			WEST	BOUND		
AM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM 8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM 8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	Ö	0	Ö	Ö	Ö	Ö	Ö	0	Ö	0	0	0	0	0	Ö	Ö	0
0. 13 Airi	·	٠	•	٠	ľ	·	·	٠	ľ	·	٠	٠	"	٠	٠	٠	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s:																	
PEAK HR :			- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
									-								
									-								
		NORT	HROUND			SOLITI	-IROUND			FACT	BOLIND			WEST	BOLIND		
PM	0		HBOUND	0	0		HBOUND	0	0	EAST 1	BOUND	0	0	WEST	BOUND	0	
PM	0 NI	0	0	0 NII	0	1	0	0	0 FI	1	0	0 FU	0 WI	1	0	0 WII	TOTAL
PM 4:00 PM	0 NL 0			0 NU 0	0 SL 0			0 SU 0	0 EL 0	EAST 1 ET 0		0 EU 0	0 WL	WEST 1 WT 0		0 WU 0	TOTAL 0
	NL	0 NT	0 NR	NU	SL	1 ST	0 SR	SU	EL	1 ET	0 ER	EU	WL	1 WT	0 WR	WU	
4:00 PM 4:15 PM 4:30 PM	0 0 0	0 NT 0 0	0 NR 0 0	0 0 0	SL 0 0 0	1 ST 0 0 0	0 SR 0 0	0 0 0	0 0 0	1 ET 0 0 0	0 ER 0 0	0 0 0	WL 0	1 WT 0 0 0	0 WR 0 0	0 0 0	0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0	0 NT 0 0 0	0 NR 0 0 0	NU 0 0 0 0	SL 0 0 0 0	1 ST 0 0 0 0	0 SR 0 0 0	SU 0 0 0 0	0 0 0 0	1 0 0 0 0	0 ER 0 0 0	0 0 0 0	WL 0 0 0 0	1 WT 0 0 0 0	0 WR 0 0 0	WU 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0	SL 0 0 0 0	1 ST 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0	0 0 0 0 0	1 ET 0 0 0 0	0 ER 0 0 0 0	0 0 0 0 0	WL 0 0 0 0	1 WT 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	1 ST 0 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0	0 NT 0 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0 0	1 ST 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0 0	WU 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	0 NT 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0	1 ST 0 0 0 0 0	0 SR 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0	0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0	0 NT 0 0 0 0 0	0 NR 0 0 0 0 0 0 0	NU 0 0 0 0 0	SL 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0	SU 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0 0	WL 0 0 0 0 0 0	1 WT 0 0 0 0 0	0 WR 0 0 0 0 0	WU 0 0 0 0 0	0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:00 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0	0 NT 0 0 0 0 0 0	0 NR 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 NL	0 NT 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 5 8 8 8 9	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 TOTAL 0
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 2	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0 0	0 NT 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SR 0 0 0 0 0 0 0 0 0 5 8 8 8 9	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 TOTAL 0

Intersection Turning Movement Count

Location: Carrie May Ln & Wait Ave/SR 98
City: Wake Forest

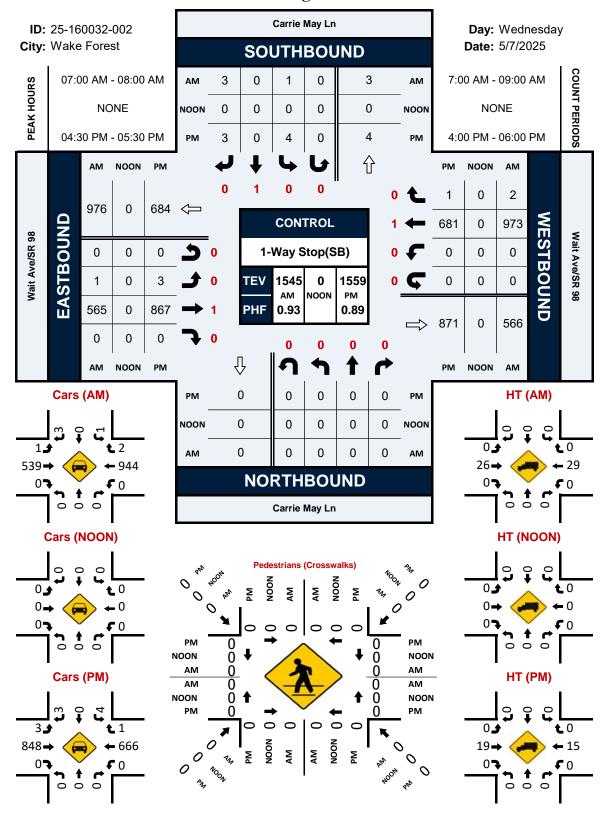
Data - Pedestrians (Crosswalks)

NS/EW Streets:	Carrie	May Ln	Carrie	May Ln	Wait Av	e/SR 98	Wait Ave	e/SR 98	
AM	NORT EB	'H LEG WB	SOUT EB	TH LEG WB	EAST NB	LEG SB	WEST NB	LEG SB	TOTAL
7:00 AM		0	0	0	0	0	0	0	0
7:15 AM		0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM		0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM		0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s:	07.00 AM	00.00 AM							TOTAL
PEAK HR :		- 08:00 AM		•		•	•	•	TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	U	U
PEAK HR FACTOR :									

PM	NORT	TH LEG	SOUT	'H LEG	EAST	LEG	WES	Γ LEG	
PIVI	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR :	04:30 PM	- 05:30 PM							TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Carrie May Ln & Wait Ave/SR 98

Peak Hour Turning Movement Count



Project ID: 25-160032-002 Location: Carrie May Ln & Wait Ave/SR 98 City: Wake Forest Day: Wednesday Date: 5/7/2025

										Groups	Printed	- Cars,	PU, Var	ıs - Hea	vy Truc	ks									
				May Ln						May Ln				1	Nait Av		3				Wait Av				
			North							bound					Eastb	ound					Westk				
Start Time	Left	Thru		Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn	Peds	App. Total	Int. Total
7:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	124	0	0	0	124	0	229	1	0	0	230	355
7:15 AM	0	0	0	0	0	0	0	0	2	0	0	2	1	141	0	0	0	142	0	272	1	0	0	273	417
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	164	0	0	0	164	0	243	0	0	0	243	407
7:45 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	136	0	0	0	136	0	229	0	0	0	229	366
Total	0	0	0	0	0	0	1	0	3	0	0	4	1	565	0	0	0	566	0	973	2	0	0	975	1545
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	116	0	0	0	116	0	202	0	0	0	202	318
8:15 AM	0	0	0	0	0	0	1	0	1	0	0	2	0	119	0	0	0	119	0	187	0	0	0	187	308
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	120	0	217	0	0	0	217	337
8:45 AM	0	0	0	0	0	0	1	0	1	0	0	2	0	109	0	0	0	109	0	222	1	0	0	223	334
Total	0	0	0	0	0	0	2	0	2	0	0	4	0	464	0	0	0	464	0	828	1	0	0	829	1297
BREAK																									
		_	_	_	_		_		_	_	_		_		_	_	_		_		_	_	_		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	199	0	0	0	199	0	144	0	0	0	144	343
4:15 PM	0	0	0	0	0	0	1	0	0	0	0	1	0	217	0	0	0	217	0	154	0	0	0	154	372
4:30 PM	0	0	0	0	0	0	1	0	0	0	0	1	2	196	0	0	0	198	0	167	0	0	0	167	366
4:45 PM	0	0	0	0	0	0	2	0	2	0	0	4	1	235	0	0	0	236	0	163	0	0	0	163	403
Total	0	0	0	0	0	0		0	2	0	0	6	3	847	0	0	0	850 193	•	628	0			628 159	1484
5:00 PM 5:15 PM	0	0	0	0	0	0	0	0	0	0	0	,	0	193 243	0	0	0	243	0	159 192	0	0	0	193	353 437
5:30 PM	0	0	0	0	0	0	0	0	2	0	0	1	2	184	0	0	0	186	0	156	0	0	0	156	344
5:45 PM	0	0	0	0	0	0	2	0	0	0	0	2	2	198	0	0	0	199	0	155	2	0	0	157	358
5:45 PM	0	0	0	0	0	0	3	0	3	0	0	6	3	818	0	0	0	821	0	662	3		0	665	1492
TOTAL	U	U	U	U	U	U	3	U	3	U	U	0	3	010	U	U	U	021	U	002	3	U	U	003	1492
Grand Total	0	0	0	0	0	0	10	0	10	0	0	20	7	2694	0	0	0	2701	0	3091	6	0	0	3097	5818
Apprch %		0.0	0.0	0.0	0.0	Ü	50.0	0.0	50.0	0.0	0.0	20	0.3	99.7	0.0	0.0	0.0	2701	0.0	99.8	0.2	0.0	0.0	0001	3010
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.3	0.3	46.3	0.0	0.0	0.0	46.4	0.0	53.1	0.2	0.0	0.0	53.2	
Cars. PU. Vans	0.0	0.0	0.0	0.0	3.0	0.0	10	0.0	10	0.0	3.0	20	7	2601	0.0	0.0	3.0	2608	0.0	3004	6	0.0	0.0	3010	5638
% Cars. PU. Vans	0.0	0.0	0.0	0.0		0.0	100.0	0.0	100.0	0.0		100.0	100.0	96.5	0.0	0.0		96.6	0.0	97.2	100.0			97.2	96.9
Heavy trucks	0.0	0.0	0.0	0.0		0.0	0.00	0.0	0.001	0.0		0.001	0.00	93	0.0	0.0		93	0.0	87	0.00.0	0.0		87	180
%Heavy trucks	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	3.5	0.0	0.0		3.4	0.0	2.8	0.0			2.8	3.1
,o. leavy il doka	0.0	0.0	5.0	0.0		0.0	0.0	5.0	0.0	0.0		0.0	0.0	5.0	5.0	3.0		0.4	3.0	2.0	0.0	0.0		2.0	0.1

Project ID: 25-160032-002 Location: Carrie May Ln & Wait Ave/SR 98 City: Wake Forest

PEAK HOURS

Location: City:	25-1600: Carrie M Wake Fo	orest			8			_		(HC	URS							Date:			
			ie May I thboun					ie May Ithbour					Ave/SR stbound	1				t Ave/SR estboun			
Start Time		Thru			φp. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analys Peak Hour for Ent					AM																
7:00 AM	0	0	0	0	0	0	0	1	0	1	0	124	0	0	124	0	229	1	0	230	355
7:15 AM	0	0	0	0	0	0	0	2	0	2	1	141	0	0	142	0	272	1	0	273	417
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	164	0	0	164	0	243	0	0	243	407
7:45 AM	0	0	0	0	0	1	0	0	0	1	0	136	0	0	136	0	229	0	0	229	366
Total Volume	0	0	0	0	0	1	0	3	0	4	1	565	0	0	566	0	973	2	0	975	1545
% App. Total	0.0	0.0	0.0	0.0	0	25.0	0.0	75.0	0.0	100	0.2	99.8	0.0	0.0	100	0.0	99.8	0.2	0.0	100	
PHF										0.500					0.863					0.893	0.926
Cars, PU, Vans	0	0	0	0	0	1	0	3	0	4	1	539	0	0	540	0	944	2	0	946	1490
% Cars, PU, Vans	0.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	0.0	100.0	100.0	95.4	0.0	0.0	95.4	0.0	97.0	100.0	0.0	97.0	96.4
Heavy trucks	0	0	0	0	0	0	0	0	0	0	0	26	0	0	26	0	29	0	0	29	55
%Heavy trucks	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	0.0	3.0	0.0	0.0	3.0	3.6
PM																					
			ie May I					ie May					Ave/SR					t Ave/SR			
		Nor	thboun	d			Sou	thbour	· d			Fas	stbound								
								ittiboui	iu									estboun			
Start Time		Thru	Rgt	Uturn A	φp. Total	Left	Thru			App. Total	Left	Thru		Uturn	App. Total	Left	Thru			App. Total	Int. Total
Start Time Peak Hour Analys Peak Hour for Ent	is from 0	Thru 4:00 PM	Rgt 1 - 06:00	Uturn A		Left	Thru			App. Total	Left				App. Total	Left				App. Total	Int. Total
Peak Hour Analys	is from 0	Thru 4:00 PM	Rgt 1 - 06:00	Uturn A		Left 1	Thru 0			App. Total	Left 2				App. Total	Left 0				App. Total	Int. Total
Peak Hour Analys Peak Hour for Ent	is from 0 ire Inters	Thru 4:00 PM ection B	Rgt 1 - 06:00 egins at	Uturn / PM : 04:30 F	PM	Left 1 2		Rgt	Uturn	App. Total		Thru	Rgt	Uturn			Thru	Rgt	Uturn		
Peak Hour Analys Peak Hour for Ent 4:30 PM	is from 0 ire Inters 0	Thru 4:00 PM ection B	Rgt 1 - 06:00 egins at	Uturn A PM : 04:30 F	PM 0	1	0	Rgt 0	Uturn 0	App. Total	2	Thru	Rgt 0	Uturn 0	198	0	Thru 167	Rgt 0	Uturn 0	167	366
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM	is from 0 ire Inters 0 0	Thru 4:00 PM ection B	Rgt 1 - 06:00 egins at 0 0	Uturn // PM : 04:30 F	PM 0	1 2	0	Rgt 0 2	Uturn 0 0	App. Total 1 4 1 1	2	196 235	Rgt 0	Uturn 0 0	198 236	0	167 163	Rgt 0	Uturn 0 0	167 163	366 403
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM 5:00 PM	is from 0 ire Inters 0 0 0	Thru 4:00 PM ection B	Rgt 1 - 06:00 egins at 0 0 0 0	Uturn / PM: 04:30 F 0 0	PM 0 0 0 0	1 2 0	0 0 0	0 2 1	Uturn 0 0 0 0	1 4 1 7	2 1 0	196 235 193	0 0 0	Uturn 0 0 0	198 236 193	0 0	167 163 159	Rgt 0 0 0 0	Uturn 0 0	167 163 159	366 403 353
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM 5:00 PM 5:15 PM	is from 0 ire Inters 0 0 0	Thru 4:00 PM ection B 0 0 0 0	Rgt 1 - 06:00 egins at 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 0 0 0 0 0 0 0	1 2 0 1	0 0 0 0	0 2 1 0	0 0 0 0	1 4 1 7 100	2 1 0 0	196 235 193 243	0 0 0 0	0 0 0 0	198 236 193 243	0 0 0 0	167 163 159 192	Rgt 0 0 0 1	Uturn 0 0 0 0 0 0	167 163 159 193	366 403 353 437
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM 5:00 PM 5:15 PM Total Volume	is from 0 ire Inters 0 0 0 0	Thru 4:00 PM ection B 0 0 0 0 0	Rgt 1 - 06:00 egins at 0 0 0 0 0 0	0 PM 0 PM 0 04:30 F 0 0 0 0	O O O O	1 2 0 1	0 0 0 0	0 2 1 0 3	0 0 0 0	1 4 1 1	2 1 0 0	196 235 193 243 867	0 0 0 0	0 0 0 0	198 236 193 243 870	0 0 0 0	167 163 159 192 681	Rgt 0 0 0 1 1 1	0 0 0 0	167 163 159 193 682	366 403 353 437
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM 5:00 PM 5:15 PM Total Volume % App. Total	is from 0 ire Inters 0 0 0 0	Thru 4:00 PM ection B 0 0 0 0 0	Rgt 1 - 06:00 egins at 0 0 0 0 0 0	0 PM 0 PM 0 04:30 F 0 0 0 0	O O O O	1 2 0 1	0 0 0 0	0 2 1 0 3	0 0 0 0	1 4 1 1 7 100	2 1 0 0	196 235 193 243 867	0 0 0 0	0 0 0 0	198 236 193 243 870 100	0 0 0 0	167 163 159 192 681	Rgt 0 0 0 1 1 1	0 0 0 0	167 163 159 193 682 100	366 403 353 437 1559
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM 5:00 PM 5:15 PM Total Volume % App. Total PHF	is from 0 ire Inters 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Thru 4:00 PM ection B 0 0 0 0 0 0 0 0 0	Rgt 1 - 06:00 egins at 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 PM 0 04:30 F 0 0 0 0 0 0 0 0	0 0 0 0 0	1 2 0 1 4 57.1	0 0 0 0 0	0 2 1 0 3 42.9	0 0 0 0 0	1 4 1 1 7 100	2 1 0 0 3 0.3	196 235 193 243 867 99.7	0 0 0 0 0	0 0 0 0 0	198 236 193 243 870 100 0.895	0 0 0 0 0	167 163 159 192 681 99.9	0 0 0 1 1 0.1	0 0 0 0 0	167 163 159 193 682 100 0.883	366 403 353 437 1559 0.892 1525 97.8
Peak Hour Analys Peak Hour for Ent 4:30 PM 4:45 PM 5:00 PM 5:15 PM Total Volume % App. Total PHF Cars, PU, Vans	is from 0 ire Inters 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Thru 4:00 PM ection B 0 0 0 0 0 0 0 0 0 0 0 0	Rgt 1 - 06:00 egins at 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Uturn # PM : 04:30 F	0 0 0 0 0	1 2 0 1 4 57.1	0 0 0 0 0	0 2 1 0 3 42.9	0 0 0 0 0 0	1 4 1 1 7 100 0.438	2 1 0 0 3 0.3	196 235 193 243 867 99.7	0 0 0 0 0 0	0 0 0 0 0	198 236 193 243 870 100 0.895	0 0 0 0 0	167 163 159 192 681 99.9	0 0 0 1 1 0.1	0 0 0 0 0 0	167 163 159 193 682 100 0.883 667	366 403 353 437 1559 0.892 1525

Project ID: 25-160032-001 Location: Austin View Blvd & Wait Ave/SR 98 City: Wake Forest

PEAK HOURS

Location:	Austin '	View BI	vd & W	ait Ave/	SR 98			F	PEAK	CHC	URS	3							Nednes		
City:	Wake F	orest						•		٠								Date:	5/7/202	5	
AW		Austi	n View	Blvd			Austir	View	Blvd			Wait	Ave/SR	98			Wai	t Ave/SR	98		
		No	rthbou	nd			Sou	ıthbour	nd			Ea	stboun	d			w	estboun			
Start Time	Left	Thru	Rgt		App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn .	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analys																					
Peak Hour for En	tire Inter	section I	Begins a	at 07:00	AM																
7:00 AM	28	0	6	0	34	0	0	0	0	0	0	129	5	0	134	0	233	0	0	233	401
7:15 AM	13	0	10	0	23	0	0	0	0	0	0	133	7	0	140	0	262	0	0	262	425
7:30 AM	11	0	10	1	22	0	0	0	0	0	0	142	11	0	153	3	252	0	0	255	430
7:45 AM	10	0	6	0	16	0	0	0	0	0	0	129	8	0	137	6	224	0	0	230	383
Total Volume	62	0	32	1	95	0	0	0	0	0	0	533	31	0	564	9	971	0	0	980	1639
% App. Total	65.3	0.0	33.7	1.1	100	0.0	0.0	0.0	0.0	0	0.0	94.5	5.5	0.0	100	0.9	99.1	0.0	0.0	100	
PHF					0.699										0.922					0.935	0.953
Cars, PU, Vans	61	0	31	1	93	0	0	0	0	0	0	508	29	0	537	8	941	0	0	949	1579
% Cars, PU, Vans	98.4	0.0	96.9	100.0	97.9	0.0	0.0	0.0	0.0	0.0	0.0	95.3	93.5	0.0	95.2	88.9	96.9	0.0	0.0	96.8	96.3
Heavy trucks	1	0	1	0	2	0	0	0	0	0	0	25	2	0	27	1	30	0	0	31	60
%Heavy trucks	1.6	0.0	3.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.5	0.0	4.8	11.1	3.1	0.0	0.0	3.2	3.7
PM																					
		Austi	n View	Blvd			Austir	1 View	Blvd			Wait	Ave/SR	98			Wai	t Ave/SR	98		
		No	rthbou	nd			Sou	ıthbour	nd			Ea	stboun	d			W	estboun	d		
Start Time	Left	Thru	Rgt		App. Total	Left	Thru	Rgt	Uturn .	App. Total	Left	Thru	Rgt	Uturn .	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analys																					
Peak Hour for En	tire Inter	section I	Begins a	at 04:30	PM																
4:30 PM	12	0	3	0	15	0	0	0	0	0	0	191	15	0	206	9	162	0	0	171	392
4:45 PM	7	0	6	1	14	0	0	0	0	0	0	229	10	0	239	6	153	0	0	159	412
5:00 PM	12	0	5	0	17	0	0	0	0	0	0	199	18	0	217	8	153	0	0	161	395
5:15 PM	11	0	11	0	22	0	0	0	0	0	0	234	16	0	250	7	189	0	0	196	468
Total Volume	42	0	25	1	68	0	0	0	0	0	0	853	59	0	912	30	657	0	0	687	1667
% App. Total	61.8	0.0	36.8	1.5	100	0.0	0.0	0.0	0.0	0	0.0	93.5	6.5	0.0	100	4.4	95.6	0.0	0.0	100	
PHF					0.773										0.912					0.876	0.890
Cars, PU, Vans	39	0	25	1	65	0	0	0	0	0	0	833	59	0	892	29	644	0	0	673	1630
% Cars, PU, Vans	92.9	0.0	100.0	100.0	95.6	0.0	0.0	0.0	0.0	0.0	0.0	97.7	100.0	0.0	97.8	96.7	98.0	0.0	0.0	98.0	97.8
Heavy trucks	3	0	0	0	3	0	0	0	0	0	0	20	0	0	20	. 1	13	0	0	14	37
%Heavy trucks	7.1	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.2	3.3	2.0	0.0	0.0	2.0	2.2

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Wait Ave/SR 98 City: Wake Forest Control: Signalized

Project ID: 25-160032-003 Date: 5/7/2025

Control: 3	Signalized							Data -	Total					Date:	5///2025		
NS/EW Streets:		Averette Ro	d/CR 1945			Averette Ro	i/CR 1945	Dala -	TOLAI	Wait Ave	e/SR 98			Wait Ave	/SR 98		
AM	0 NL	NORTH 1 NT	IBOUND 0 NR	0 NU	0.5 SL	SOUTH 0.5 ST	BOUND 1 SR	0 SU	1 EL	EASTB 0.5 ET	OUND 0.5 ER	0 EU	1 WL	WESTE 0.5 WT	BOUND 0.5 WR	0 WU	TOTAL
7:00 AM 7:15 AM 7:30 AM	17 15 25	19 13 12	12 19 15	0 0	5 13 9	23 26 44	21 26 38	0 0	11 6 14	94 119 137	11 20 18	0 0	10 23 10	202 226 188	2 2 4	0 0	427 508 514
7:45 AM 8:00 AM 8:15 AM 8:30 AM	10 14 10 9	20 4 8 6	13 13 13 9	0 0 0	5 6 7	30 27 18 18	27 23 16	0 0 0	15 13 10 9	93 104 94	14 12 9 12	0 0 0	11 18 13 5	178 166 166 186	1 3 4 3	0 0 0	392 378 381
8:45 AM	17 NL	12 NT	11 NR	0 NU	12 3	15 ST	18 25 SR	0 SU	13 EL	95 ET	10 ER	0 EU	8 WL	181 WT	7 WR	0 0 WU	397 TOTAL
TOTAL VOLUMES : APPROACH %'s : PEAK HR :	117 37.03%	94 29.75%	105 33.23%	0 0.00%	60 13.19%	201 44.18%	194 42.64%	0 0.00%	91 8.72%	846 81.11%	106 10.16%	0.00%	98 6.06%	1493 92.33%	26 1.61%	0.00%	3431 TOTAL
PEAK HR VOL : PEAK HR FACTOR :	67 0.670	64 0.800 0.9	59 0.776 13	0.000	32 0.615	123 0.699 0.7	112 0.737 34	0.000	46 0.767	460 0.839 0.84	63 0.788 42	0.000	54 0.587	794 0.878 0.8	9 0.563 54	0.000	1883 0.916
PM	0 NL	NORTH 1 NT	IBOUND 0 NR	0 NU	0.5 SL	SOUTH 0.5 ST	BOUND 1 SR	0 SU	1 EL	EASTB 0.5 ET	OUND 0.5 ER	0 EU	1 WL	WESTE 0.5 WT	BOUND 0.5 WR	0 WU	TOTAL
4:00 PM 4:15 PM 4:30 PM	22 16 21	14 16 20	21 14 16	0 0 0	0 1 5	11 33 14	9 19 24	0 0 0	16 18 13	169 183 155	18 22 30	0 0 0	7 7 15	117 117 117	6 3 8	0 0 0	410 449 438
4:45 PM 5:00 PM 5:15 PM	17 18 12	18 22 28	14 15 14	0	0 4 4	22 23	11 19 23	0	22 27 37	187 137 186	26 25	0	8 14	140 123 160	6 1 11	0 0 0	465 422 537
5:30 PM 5:45 PM	19 11	18 31	16 20	0	7 3	21 24	15 21	0	17 16	156 154	16 24	0	6 21	123 121	7 11	0	421 457
TOTAL VOLUMES : APPROACH %'s : PEAK HR :	NL 136 31.41%	NT 167 38.57% 04:30 PM -	NR 130 30.02%	NU 0 0.00%	SL 24 7.32%	ST 163 49.70%	SR 141 42.99%	SU 0 0.00%	EL 166 9.85%	ET 1327 78.75%	ER 192 11.39%	EU 0 0.00%	WL 82 7.11%	WT 1018 88.29%	WR 53 4.60%	WU 0 0.00%	TOTAL 3599
PEAK HR : PEAK HR VOL : PEAK HR FACTOR :	68 0.810	88 0.786 0.9	59 0.922	0 0.000	13 0.650	74 0.804 0.8	77 0.802 20	0 0.000	99 0.669	665 0.889 0.88	112 0.903 83	0.000	41 0.683	540 0.844 0.8	26 0.591 20	0.000	1862 0.867

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Wait Ave/SR 98 City: Wake Forest Control: Signalized

Project ID: 25-160032-003 Date: 5/7/2025

								Data	- Cars								_
NS/EW Streets:		Averette Ro	I/CR 1945			Averette Ro	I/CR 1945			Wait Ave	e/SR 98			Wait Ave	/SR 98		
		NORTH	BOUND			SOUTH	BOUND			EASTE	BOUND			WESTE	BOUND		
AM	0	1	0	0	0.5	0.5	1	0	1	0.5	0.5	0	1	0.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	17	18	12	0	5	23	21	0	10	91	10	0	9	195	2	0	413
7:15 AM	13	12	17	0	13	26	26	0	6	116	19	0	23	217	2	0	490
7:30 AM	19	11	15	0	9	43	38	0	13	131	16	0	10	185	4	0	494
7:45 AM	10	20	13	0	4	30	27	0	15	105	11	0	9	175	1	0	420
8:00 AM	13	4	10	0	6	25	23	0	11	89	11	0	18	157	2	0	369
8:15 AM	10	8	10	0	7	18	16	0	9	99	9	0	10	162	4	0	362
8:30 AM	7	6	8	0	11	18	18	0	8	93	12	0	5	180	2	0	368
8:45 AM	16	9	10	0	2	15	25	0	11	93	10	0	8	172	7	0	378
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	105	88	95	0	57	198	194	0	83	817	98	0	92	1443	24	0	3294
APPROACH %'s:	36.46%	30.56%	32.99%	0.00%	12.69%	44.10%	43.21%	0.00%	8.32%	81.86%	9.82%	0.00%	5.90%	92.56%	1.54%	0.00%	J
PEAK HR :		07:00 AM -	08:00 AM														TOTAL
PEAK HR VOL:	59	61	57	0	31	122	112	0	44	443	56	0	51	772	9	0	1817
PEAK HR FACTOR:	0.776	0.763	0.838	0.000	0.596	0.709	0.737	0.000	0.733	0.845	0.737	0.000	0.554	0.889	0.563	0.000	0.920
		0.9	41			0.7	36			0.8	48			0.8	60		0.520

		NORTH	BOUND			SOUTH	BOUND			EASTE	BOUND			WESTE	BOUND		
PM	0	1	0	0	0.5	0.5	1	0	1	0.5	0.5	0	1	0.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	20	14	19	0	0	10	9	0	14	163	18	0	7	113	6	0	393
4:15 PM	16	16	14	0	0	31	18	0	17	177	22	0	7	115	3	0	436
4:30 PM	21	20	16	0	4	14	23	0	12	151	28	0	14	116	6	0	425
4:45 PM	17	17	13	0	0	14	11	0	21	185	29	0	4	138	5	0	454
5:00 PM	18	20	15	0	4	21	18	0	27	135	25	0	8	117	1	0	409
5:15 PM	12	28	13	0	4	21	23	0	36	183	25	0	13	158	11	0	527
5:30 PM	19	18	16	0	6	19	13	0	16	154	16	0	6	122	7	0	412
5:45 PM	11	31	20	0	3	24	21	0	16	142	24	0	21	121	11	0	445
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	134	164	126	0	21	154	136	0	159	1290	187	0	80	1000	50	0	3501
APPROACH %'s:	31.60%	38.68%	29.72%	0.00%	6.75%	49.52%	43.73%	0.00%	9.72%	78.85%	11.43%	0.00%	7.08%	88.50%	4.42%	0.00%	
PEAK HR :		04:30 PM -	05:30 PM														TOTAL
PEAK HR VOL :	68	85	57	0	12	70	75	0	96	654	107	0	39	529	23	0	1815
PEAK HR FACTOR:	0.810	0.759	0.891	0.000	0.750	0.833	0.815	0.000	0.667	0.884	0.922	0.000	0.696	0.837	0.523	0.000	0.861
		0.9	21			0.8	18			0.8	78			0.8	12		0.001

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Wait Ave/SR 98 City: Wake Forest Control: Signalized

Project ID: 25-160032-003 Date: 5/7/2025

Control.	Jigi lalizeu													Date.	1//2023		
_								Data	- HT								
NS/EW Streets:		Averette Ro	I/CR 1945			Averette Ro	I/CR 1945			Wait Ave	/SR 98			Wait Ave	/SR 98		
AM	0 NL	NORTH 1 NT	BOUND 0 NR	0 NU	0.5 SL	SOUTH 0.5 ST	BOUND 1 SR	0 SU	1 EL	EASTB 0.5 ET	OUND 0.5 ER	0 EU	1 WL	WESTE 0.5 WT	O.5 WR	0 WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	1	3	1	0	1	7	0	0	14
7:15 AM	2	1	2	0	0	0	0	0	0	3	1	0	0	9	0	0	18
7:30 AM	6	1	0	0	0	1	0	0	1	6	2	0	0	3	0	0	20
7:45 AM	0	0	0	0	1	0	0	0	0	5	3	0	2	3	0	0	14
8:00 AM	1	0	3	0	0	2	0	0	2	4	1	0	0	9	1	0	23
8:15 AM	0	0	3	0	0	0	0	0	1	5	0	0	3	4	0	0	16
8:30 AM	2	0	1	0	1	0	0	0	1	1	0	0	0	6	1	0	13
8:45 AM	1	3	1	0	1	0	0	0	2	2	0	0	0	9	0	0	19
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	12	6	10	0	3	3	0	0	8	29	8	0	6	50	2	0	137
APPROACH %'s:	42.86%	21.43%	35.71%	0.00%	50.00%	50.00%	0.00%	0.00%	17.78%	64.44%	17.78%	0.00%	10.34%	86.21%	3.45%	0.00%	
PEAK HR:		07:00 AM -										_	_				TOTAL
PEAK HR VOL:	8	3	2	0	1	1 0.250	0	0	2	17	7 0.583	0	3	22	0	0	66
PEAK HR FACTOR:	0.333	0.750	0.250	0.000	0.250		0.000	0.000	0.500	0.708		0.000	0.375	0.611	0.000	0.000	0.825
		0.4	04			0.50	JU			0.7.	22			0.69	14		
D14		NORTH				SOUTH				EASTB				WESTE			
PM	0	1	0	0	0.5	0.5	1	0	1	0.5	0.5	0	1	0.5	0.5	0	
4.00.014	NL_	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM 4:15 PM	2	0	2	0	0	1 2	0 1	0	2	6 6	0	0	0	4	0	0	17 13
4:30 PM	0	0	0	0	1	0	1	0	1	4	2	0	1	1	2	0	13
4:45 PM	0	1	1	0	0	1	0	0	1	2	2	0	0	2	1	0	11
5:00 PM	0	2	0	0	0	1	1	0	0	2	1	0	0	6	0	0	13
5:15 PM	Ô	ō	1	Ö	Ö	2	ō	ő	1	3	Ō	ő	1	2	Õ	ő	10
5:30 PM	Ö	Ö	ō	Ö	i	2	2	ō	ī	2	ō	ō	Ō	1	Ö	ō	9
5:45 PM	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	2	3	4	0	3	9	5	0	7	37	5	0	2	18	3	0	98
APPROACH %'s:	22.22%	33.33%	44.44%	0.00%	17.65%	52.94%	29.41%	0.00%	14.29%	75.51%	10.20%	0.00%	8.70%	78.26%	13.04%	0.00%	
PEAK HR :		04:30 PM -	05:30 PM											·			TOTAL
PEAK HR VOL:	0	3	2	0	1	4	2	0	3	11	5	0	2	11	3	0	47
PEAK HR FACTOR:	0.000	0.375	0.500	0.000	0.250	0.500	0.500	0.000	0.750	0.688	0.625	0.000	0.500	0.458	0.375	0.000	0.904
		0.6	25			0.8	75			0.67	79			0.60	57		0.501

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Wait Ave/SR 98 City: Wake Forest Control: Signalized

Project ID:	23-100032-00
Date:	5/7/2025

_								Data -	Bikes								_
NS/EW Streets:		Averette R	d/CR 1945			Averette Ro	I/CR 1945			Wait Av	e/SR 98			Wait Av	e/SR 98		
		NORTI	HBOUND			SOUTH	BOUND			EAST	BOUND			WEST	BOUND		
AM	0	1	0	0	0.5	0.5	1	0	1	0.5	0.5	0	1	0.5	0.5	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM 7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM 7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	ő	ŏ	ŏ	Ŏ	l ŏ	ŏ	Ŏ	Ŏ	Ö	ŏ	ŏ	ŏ	Ŏ	ŏ	Ŏ	ŏ	ő
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES : APPROACH %'s :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR :		07:00 AM	- 08:00 AM														TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
			HBOUND	0.000		SOUTH		0.000	0.000		BOUND	0.000	0.000		BOUND	0.000	
PM	0	NORTI	HBOUND 0	0	0.5	SOUTH 0.5	BOUND 1	0	1	EAST 0.5	BOUND 0.5	0	1	WEST 0.5	BOUND 0.5	0	
PM	0 NL	NORTI 1 NT	HBOUND 0 NR	0 NU	0.5 SL	SOUTH 0.5 ST	BOUND 1 SR	0 SU	1 EL	EAST 0.5 ET	BOUND 0.5 ER	0 EU	1 WL	WEST 0.5 WT	BOUND 0.5 WR	0 WU	TOTAL
PM 4:00 PM	0 NL 0	NORTI 1 NT 0	HBOUND 0 NR 0	0 NU 0	0.5 SL 0	SOUTH 0.5 ST 0	BOUND 1 SR 0	0 SU 0	1 EL 0	EAST 0.5 ET 0	BOUND 0.5 ER 0	0 EU 0	1 WL	WEST 0.5 WT 0	BOUND 0.5 WR	0 WU 0	0
PM 4:00 PM 4:15 PM	0 NL 0 0	NORTI 1 NT 0	HBOUND 0 NR 0	0 NU 0 0	0.5 SL 0	SOUTH 0.5 ST 0	BOUND 1 SR 0	0 SU 0 0	1 EL 0	EAST 0.5 ET 0	BOUND 0.5 ER 0	0 EU 0 0	1 WL 0	WEST 0.5 WT 0	BOUND 0.5 WR 0	0 WU 0 0	0
PM 4:00 PM 4:15 PM 4:30 PM	0 NL 0 0	NORTI 1 NT 0 0	HBOUND 0 NR 0 0	0 NU 0 0	0.5 SL 0 0	SOUTH 0.5 ST 0 0	BOUND 1 SR 0 0	0 SU 0 0	1 EL 0 0	EAST 0.5 ET 0 0	BOUND 0.5 ER 0 0	0 EU 0 0	1 WL 0 0	WEST 0.5 WT 0 0	BOUND 0.5 WR 0 0	0 WU 0 0	0 0 1
PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM	0 NL 0 0	NORTI 1 NT 0	HBOUND 0 NR 0 0 0	0 NU 0 0	0.5 SL 0	SOUTH 0.5 ST 0 0 1	BOUND 1 SR 0	0 SU 0 0	1 EL 0 0 0	EAST 0.5 ET 0	BOUND 0.5 ER 0	0 EU 0 0	1 WL 0	WEST 0.5 WT 0	BOUND 0.5 WR 0 0 0	0 WU 0 0 0	0 0 1 0
PM 4:00 PM 4:15 PM 4:30 PM	0 NL 0 0	NORTI 1 NT 0 0 0	HBOUND 0 NR 0 0	0 NU 0 0 0	0.5 SL 0 0 0	SOUTH 0.5 ST 0 0	BOUND 1 SR 0 0 0 0 0 0	0 SU 0 0 0	1 EL 0 0	EAST 0.5 ET 0 0	BOUND 0.5 ER 0 0	0 EU 0 0 0	1 WL 0 0 0	0.5 WT 0 0 0	BOUND 0.5 WR 0 0	0 WU 0 0	0 0 1
PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:15 PM 5:30 PM	0 NL 0 0 0	NORTI 1 NT 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0	0.5 SL 0 0 0 0	SOUTH 0.5 ST 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 1 SR 0 0 0 0 0 0 0	0 SU 0 0 0 0	1 EL 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0	1 WL 0 0 0 0	WEST 0.5 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 WR 0 0 0 0 0	0 WU 0 0 0 0	0 0 1 0 0 0
PIM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	0 NL 0 0 0	NORTI 1 NT 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0	0.5 SL 0 0 0 0	SOUTH 0.5 ST 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 1 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0	1 EL 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0	1 WL 0 0 0 0	WEST 0.5 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 WR 0 0 0 0	0 WU 0 0 0 0	0 0 1 0
PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	0 NL 0 0 0 0 0	NORTI 1 NT 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 NR	0 NU 0 0 0 0 0 0 0	0.5 SL 0 0 0 0 0 0 0	SOUTH 0.5 ST 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 1 SR 0 0 0 0 0 0 0 SR	0 SU 0 0 0 0 0 0	1 EL 0 0 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0 0	1 WL 0 0 0 0 0 0 0	0.5 WT 0 0 0 0 0 0 0 0 0	BOUND 0.5 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0
PIM 4:00 PM 4:15 PM 4:13 PM 4:39 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES:	0 NL 0 0 0 0	NORTI 1 NT 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0	0.5 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 0.5 ST 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 1 SR 0 0 0 0 0 0 0 0 0 0 SR 0 0	0 SU 0 0 0 0 0 0	1 EL 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0	0 EU 0 0 0 0 0	1 WL 0 0 0 0 0 0	WEST 0.5 WT 0 0 0 0 0	0.5 WR 0 0 0 0 0 0	0 WU 0 0 0 0 0	0 0 1 0 0 0 0
PM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	0 NL 0 0 0 0 0	NORTI 1 NT 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 NR	0 NU 0 0 0 0 0 0 0	0.5 SL 0 0 0 0 0 0 0	SOUTH 0.5 ST 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 1 SR 0 0 0 0 0 0 0 SR	0 SU 0 0 0 0 0 0	1 EL 0 0 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0 0	1 WL 0 0 0 0 0 0 0	0.5 WT 0 0 0 0 0 0 0 0 0	BOUND 0.5 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0
PM 4:00 PM 4:15 PM 4:30 PM 4:30 PM 4:35 PM 5:15 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s:	0 NL 0 0 0 0 0	NORTI 1 NT 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0	0.5 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 0.5 ST 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 1 SR 0 0 0 0 0 0 0 0 0 0 SR 0 0	0 SU 0 0 0 0 0 0	1 EL 0 0 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0 0	1 WL 0 0 0 0 0 0 0	0.5 WT 0 0 0 0 0 0 0 0 0	BOUND 0.5 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL
PIM 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %s: PEAK HR;	0 NL 0 0 0 0 0 0	NORTI 1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HBOUND 0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0	0.5 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 0.5 ST 0 0 0 1 1 0 0 0 0 0 0 0 0 ST 1 1 100.00%	BOUND 1 1 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 EL 0 0 0 0 0 0 0	EAST 0.5 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0.5 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0 0	1 WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WEST 0.5 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0.5 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Wait Ave/SR 98 **City:** Wake Forest

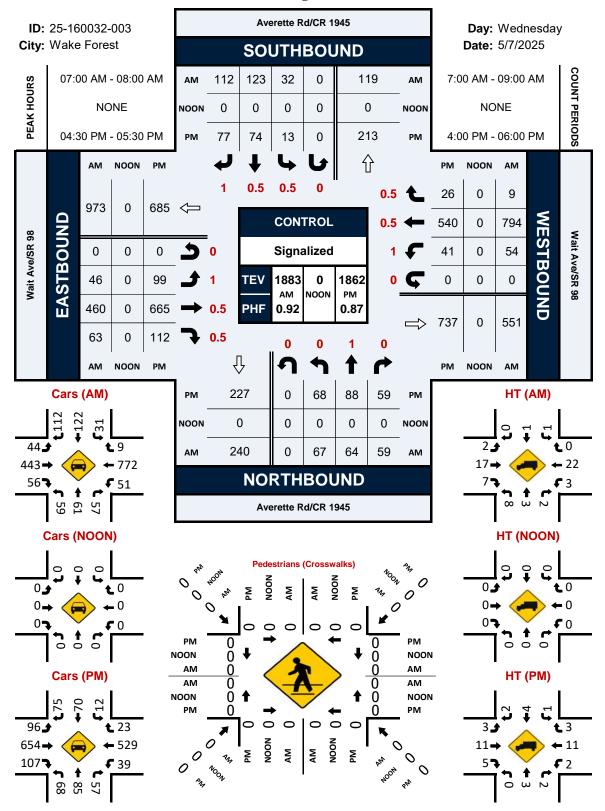
Data - Pedestrians (Crosswalks)

NS/EW Streets:	Averette R	d/CR 1945	Averette F	Rd/CR 1945	Wait Av	e/SR 98	Wait Av	e/SR 98	
AM	NORT EB	H LEG WB	SOUT EB	H LEG WB	EAST NB	LEG SB	WES ⁻ NB	Γ LEG SB	TOTAL
7:00 AM		0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES : APPROACH %'s :	0	0	0	0	0	0	0	0	0
PEAK HR:	07:00 AM	- 08:00 AM				•			TOTAL
PEAK HR VOL : PEAK HR FACTOR :	0	0	0	0	0	0	0	0	0

PM	NORT	TH LEG	SOUT	'H LEG	EAST	LEG	WEST	Γ LEG	
PIVI	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR:	04:30 PM	- 05:30 PM							TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Averette Rd/CR 1945 & Wait Ave/SR 98

Peak Hour Turning Movement Count



Project ID: 25-160032-003 Location: Averette Rd/CR 1945 & Wait Ave/SR 98 City: Wake Forest Day: Wednesday Date: 5/7/2025

												d - Cars,	PU, Van												
		Ave	rette R Northi	d/CR 19	945			Ave		d/CR 19	945			1	Nait Av Eastb	e/SR 98	3				Wait Ave				
Start Time	Left	Thru	Rgt	Uturn	Peds	App. Total	Left	Thru		Uturn	Peds	App. Total	Left	Thru		Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn	Peds	App. Total	Int. Total
7:00 AM	17	19	12	0	0	48	5	23	21	0	0	49	11	94	11	0	0	116	10	202	2	0	0	214	427
7:15 AM	15	13	19	0	0	47	13	26	26	0	0	65	6	119	20	0	0	145	23	226	2	0	0	251	508
7:30 AM	25	12	15	0	0	52	9	44	38	0	0	91	14	137	18	0	0	169	10	188	4	0	0	202	514
7:45 AM	10	20	13	0	0	43	5	30	27	0	0	62	15	110	14	0	0	139	11	178	1	0	0	190	434
Total	67	64	59	0	0	190	32	123	112	0	0	267	46	460	63	0	0	569	54	794	9	0	0	857	1883
8:00 AM	14	4	13	0	0	31	6	27	23	0	0	56	13	93	12	0	0	118	18	166	3	0	0	187	392
8:15 AM	10	8	13	0	0	31	7	18	16	0	0	41	10	104	9	0	0	123	13	166	4	0	0	183	378
8:30 AM	9	6	9	0	0	24	12	18	18	0	0	48	9	94	12	0	0	115	5	186	3	0	0	194	381
8:45 AM	17	12	11	0	0	40	3	15	25	0	0	43	13	95	10	0	0	118	8	181	7	0	0	196	397
Total	50	30	46	0	0	126	28	78	82	0	0	188	45	386	43	0	0	474	44	699	17	0	0	760	1548
BREAK																		-						·-	
4:00 PM	22	14	21	0	0	57	0	11	9	0	0	20	16	169	18	0	0	203	7	117	6	0	0	130	410
4:15 PM	16	16	14	0	0	46	1	33	19	0	0	53	18	183	22	0	0	203	7	117	3	0	0	127	410
4:30 PM	21	20	16	0	0	57	5	14	24	0	0	43	13	155	30	0	0	198	15	117	8	0	0	140	438
4:45 PM	17	18	14	0	0	49	0	15	11	0	0	26	22	187	31	0	0	240	4	140	6	0	0	150	465
Total	76	68	65	0	0	209	6	73	63	0	0	142	69	694	101	0	0	864	33	491	23	0	0	547	1762
5:00 PM	18	22	15	0	0	55	4	22	19	0	0	45	27	137	26	0	0	190	8	123	1	0	0	132	422
5:15 PM	12	28	14	ō	ō	54	4	23	23	ō	0	50	37	186	25	ō	ō	248	14	160	11	0	ō	185	537
5:30 PM	19	18	16	0	0	53	7	21	15	0	0	43	17	156	16	0	0	189	6	123	7	0	0	136	421
5:45 PM	11	31	20	0	0	62	3	24	21	0	0	48	16	154	24	0	0	194	21	121	11	0	0	153	457
Total	60	99	65	0	0	224	18	90	78	0	0	186	97	633	91	0	0	821	49	527	30	0	0	606	1837
Grand Total	253	261	235	0	0	749	84	364	335	0	0	783	257	2173	298	0	0	2728	180	2511	79	0	0	2770	7030
Apprch %	33.8	34.8	31.4	0.0	0.0		10.7	46.5	42.8	0.0	0.0		9.4	79.7	10.9	0.0	0.0		6.5	90.6	2.9	0.0	0.0		
Total %	3.6	3.7	3.3	0.0	0.0	10.7	1.2	5.2	4.8	0.0	0.0	11.1	3.7	30.9	4.2	0.0	0.0	38.8	2.6	35.7	1.1	0.0	0.0	39.4	
Cars, PU, Vans	239	252	221	0		712	78	352	330	0		760	242	2107	285	0		2634	172	2443	74	0		2689	6795
% Cars, PU, Vans	94.5	96.6	94.0	0.0		95.1	92.9	96.7	98.5	0.0		97.1	94.2	97.0	95.6	0.0		96.6	95.6	97.3	93.7	0.0		97.1	96.7
Heavy trucks	14	9	14	0		37	6	12	5	0		23	15	66	13	0		94	8	68	5	0		81	235
%Heavy trucks	5.5	3.4	6.0	0.0		4.9	7.1	3.3	1.5	0.0		2.9	5.8	3.0	4.4	0.0		3.4	4.4	2.7	6.3	0.0		2.9	3.3

Project ID: 25-160032-003 Location: Averette Rd/CR 1945 & Wait Ave/SR 98 City: Wake Forest

PEAK HOURS

Location:	Averette Wake F	e Rd/CR	1945 &	Wait A	ve/SR !	98		F	PEAK	(HC	URS	3							Wednes 5/7/202		
			e Rd/CR			-	Averette	Rd/CR	1945			Wait	Ave/SR	98			Wait	t Ave/SR	98		
		No	rthboun	d			Sou	thboun	d			Ea	stboun	t			W	estboun			
Start Time	Left	Thru			App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn /	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analys	sis from (07:00 AN	и - 09:00) AM		-								-				-			•
Peak Hour for En	tire Inters	section E	Begins at	t 07:00	AM																
7:00 AM	17	19	12	0	48	5	23	21	0	49	11	94	11	0	116	10	202	2	0	214	427
7:15 AM	15	13	19	0	47	13	26	26	0	65	6	119	20	0	145	23	226	2	0	251	508
7:30 AM	25	12	15	0	52	9	44	38	0	91	14	137	18	0	169	10	188	4	0	202	514
7:45 AM	10	20	13	0	43	5	30	27	0	62	15	110	14	0	139	11	178	1	0	190	434
Total Volume	67	64	59	0	190	32	123	112	0	267	46	460	63	0	569	54	794	9	0	857	1883
% App. Total	35.3	33.7	31.1	0.0	100	12.0	46.1	41.9	0.0	100	8.1	80.8	11.1	0.0	100	6.3	92.6	1.1	0.0	100	
PHF					0.913					0.734	-				0.842					0.854	0.916
Cars, PU, Vans	59	61	57	0	177	31	122	112	0	265	44	443	56	0	543	51	772	9	0	832	1817
% Cars, PU, Vans	88.1	95.3	96.6	0.0	93.2	96.9	99.2	100.0	0.0	99.3	95.7	96.3	88.9	0.0	95.4	94.4	97.2	100.0	0.0	97.1	96.5
Heavy trucks	8	3	2	0	13	1	1	0	0	2	2	17	7	0	26	3	22	0	0	25	66
%Heavy trucks	11.9	4.7	3.4	0.0	6.8	3.1	8.0	0.0	0.0	0.7	4.3	3.7	11.1	0.0	4.6	5.6	2.8	0.0	0.0	2.9	3.5
PM																					
		Averette	e Rd/CR	1945			Averette	Rd/CR	1945			Wait	Ave/SR	98			Wait	t Ave/SR	98		
			rthboun					thboun					stboun					estboun			
Start Time	Left	Thru			App. Total	Left	Thru	Rgt	Uturn .	App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analys Peak Hour for En					PM																
4:30 PM	21	20	16	0	57	5	14	24	0	43	13	155	30	0	198	15	117	8	0	140	438
4:45 PM	17	18	14	0	49	0	15	11	0	26	22	187	31	0	240	4	140	6	0	150	465
5:00 PM	18	22	15	0	55	4	22	19	0	45	27	137	26	0	190	8	123	1	0	132	422
	12	28	14	0	54	4	23	23	0	50	37	186	25	0	248	14	160	11	0	185	537
5:15 PM	12							77	0	164	99	665	112	0	876	41	540	26	0	607	1862
5:15 PM Total Volume	68	88	59	0	215	13	74	//	U	104	33										1002
Total Volume % App. Total			59 27.4	0.0	100	13 7.9	74 45.1	47.0	0.0	100	11.3	75.9	12.8	0.0	100	6.8	89.0	4.3	0.0	100	
Total Volume % App. Total PHF	68 31.6	88 40.9	27.4	0.0	100 0.943	7.9	45.1	47.0	0.0	100 0.820	11.3	75.9			0.883			4.3		100	0.867
Total Volume % App. Total	68 31.6	88 40.9	27.4	0.0	100 0.943 210	7.9	45.1	47.0	0.0	100 0.820 157	11.3	75.9 654	107	0	0.883 857	39	529	4.3	0.0	100 0.820 591	0.867
Total Volume % App. Total PHF	68 31.6	88 40.9 85 96.6	27.4 57 96.6	0.0 0 0.0	100 0.943	7.9	45.1 70 94.6	47.0 75 97.4	0.0 0 0.0	100 0.820	96 97.0	75.9 654 98.3	107 95.5	0 0.0	0.883 857 97.8	39 95.1	529 98.0	4.3 23 88.5	0.0 0 0.0	100 0.820 591 97.4	0.867 1815 97.5
Total Volume % App. Total PHF Cars, PU, Vans	68 31.6	88 40.9	27.4	0.0	100 0.943 210	7.9	45.1	47.0	0.0	100 0.820 157	11.3	75.9 654	107	0	0.883 857	39	529	4.3	0.0	100 0.820 591	0.867

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Old Pearce Rd City: Wake Forest Control: 1-Way Stop(WB)

Project ID: 25-160032-004

	Date: 5/7/2025
Data - Total	

-								Data -	Total								
NS/EW Streets:		Averette Ro	d/CR 1945			Averette Ro	d/CR 1945			Old Pea	rce Rd			Old Pea	rce Rd		
		NORTH	BOUND			SOUTH	BOUND			FASTE	BOUND			WESTE	ROLIND		
AM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
7-1171	NL	NT	NR	NU	SL	ST	SR	SU	EL	ĔŤ	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	38	23	0	13	32	0	0	0	0	0	0	22	0	7	0	135
7:15 AM	o o	49	21	0	16	53	0	Ô	0	0	ñ	0	20	n	4	0	163
7:30 AM	o o	42	20	Ô	15	57	0	ő	ő	Ô	ň	ő	26	ň	9	0	169
7:45 AM	ŏ	35	24	Ô	6	46	0	ő	ő	Ô	ñ	ő	30	ň	6	0	147
8:00 AM	0	27	15	0	13	46	0	0	0	0	0	0	21	0	3	0	125
8:15 AM	o o	28	13	ő	5	38	0	ő	Ö	Ô	ñ	ő	16	ň	4	0	104
8:30 AM	o o	19	7	ő	4	29	Ö	ő	Ö	Ô	ñ	ő	18	Ô	4	ő	81
8:45 AM	Ö	36	16	0	1	32	0	ñ	0	Ô	1	0	18	ñ	4	0	108
0. IS AIT				_	•					•		_				_	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	274	139	0	73	333	0	0	0	0	1	0	171	0	41	0	1032
APPROACH %'s:	0.00%	66.34%	33.66%	0.00%	17.98%	82.02%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	80.66%	0.00%	19.34%	0.00%	
PEAK HR :																	TOTAL
PEAK HR VOL:	0	164	88	0	50	188	0	0	0	0	0	0	98	0	26	0	614
PEAK HR FACTOR:	0.000	0.837	0.917	0.000	0.781	0.825	0.000	0.000	0.000	0.000	0.000	0.000	0.817	0.000	0.722	0.000	0.908
		0.9	00			0.8	26							0.8	61		0.500
-			IBOUND				BOUND				BOUND			WESTE			
PM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	59	16	0	11	26	0	0	0	0	0	0	21	0	0	0	133
4:15 PM	0	42	13	0	20	40	0	0	0	0	0	0	24	0	5	0	144
4:30 PM	0	47	12	0	22	37	0	0	0	0	0	0	16	0	13	0	147
4:45 PM	0	41	16	0	22	30	0	0	0	0	0	0	9	0	10	0	128
5:00 PM	0	47	16	0	13	42	0	0	0	0	0	0	13	0	6	0	137
5:15 PM	0	45	16	0	19	43	0	0	0	0	0	0	18	0	11	0	152
5:30 PM	0	39	11	0	12	36	0	0	0	0	0	0	15	0	10	0	123
5:45 PM	0	54	17	0	17	53	0	0	0	0	0	0	25	0	5	0	171
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	374	117	0	136	307	0	0	0	0	0	0	141	0	60	0	1135
APPROACH %'s:	0.00%	76.17%	23.83%	0.00%	30.70%	69.30%	0.00%	0.00%					70.15%	0.00%	29.85%	0.00%	
PEAK HR :		05:00 PM -	06:00 PM														TOTAL
PEAK HR VOL:	0	185	60	0	61	174	0	0	0	0	0	0	71	0	32	0	583
PEAK HR FACTOR :	0.000	0.856	0.882	0.000	0.803	0.821	0.000	0.000	0.000	0.000	0.000	0.000	0.710	0.000	0.727	0.000	0.852
	0.000	0.856 0.8		0.000	0.803	0.821		0.000	0.000	0.000	0.000	0.000	0.710	0.000		0.000	0.852

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Old Pearce Rd City: Wake Forest Control: 1-Way Stop(WB)

Project ID: 25-160032-004 Date: 5/7/2025

_								Data	- Cars								_
NS/EW Streets:		Averette Ro	I/CR 1945			Averette Ro	I/CR 1945			Old Pea	arce Rd			Old Pea	rce Rd		
		NORTH	BOUND			SOUTH	BOUND			EAST	BOUND			WESTE	BOUND		
AM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	36	23	0	13	30	0	0	0	0	0	0	19	0	7	0	128
7:15 AM	0	43	20	0	16	52	0	0	0	0	0	0	19	0	4	0	154
7:30 AM	0	37	20	0	14	55	0	0	0	0	0	0	25	0	9	0	160
7:45 AM	0	35	23	0	5	42	0	0	0	0	0	0	29	0	6	0	140
8:00 AM	0	23	15	0	12	44	0	0	0	0	0	0	17	0	3	0	114
8:15 AM	0	25	13	0	5	35	0	0	0	0	0	0	16	0	4	0	98
8:30 AM	0	16	7	0	4	29	0	0	0	0	0	0	17	0	4	0	77
8:45 AM	0	32	15	0	1	32	0	0	0	0	0	0	18	0	3	0	101
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	247	136	0	70	319	0	0	0	0	0	0	160	0	40	0	972
APPROACH %'s:	0.00%	64.49%	35.51%	0.00%	17.99%	82.01%	0.00%	0.00%					80.00%	0.00%	20.00%	0.00%	
PEAK HR:		07:00 AM -	MA 00:80														TOTAL
PEAK HR VOL:	0	151	86	0	48	179	0	0	0	0	0	0	92	0	26	0	582
PEAK HR FACTOR:	0.000	0.878	0.935	0.000	0.750	0.814	0.000	0.000	0.000	0.000	0.000	0.000	0.793	0.000	0.722	0.000	0.909
		0.9	40			0.83	22							0.8	43		0.303

		NORTH	ROUND			SOUTH	ROUND			EASI	ROUND			WESTE	BOUND		
PM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	56	15	0	11	25	0	0	0	0	0	0	21	0	0	0	128
4:15 PM	0	42	13	0	19	39	0	0	0	0	0	0	23	0	5	0	141
4:30 PM	0	47	11	0	21	35	0	0	0	0	0	0	16	0	13	0	143
4:45 PM	0	39	15	0	22	27	0	0	0	0	0	0	9	0	8	0	120
5:00 PM	0	47	16	0	12	41	0	0	0	0	0	0	13	0	6	0	135
5:15 PM	0	44	15	0	19	40	0	0	0	0	0	0	18	0	11	0	147
5:30 PM	0	39	9	0	12	34	0	0	0	0	0	0	14	0	10	0	118
5:45 PM	0	54	17	0	17	53	0	0	0	0	0	0	25	0	5	0	171
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	368	111	0	133	294	0	0	0	0	0	0	139	0	58	0	1103
APPROACH %'s:	0.00%	76.83%	23.17%	0.00%	31.15%	68.85%	0.00%	0.00%					70.56%	0.00%	29.44%	0.00%	
PEAK HR :		05:00 PM -	06:00 PM														TOTAL
PEAK HR VOL :	0	184	57	0	60	168	0	0	0	0	0	0	70	0	32	0	571
PEAK HR FACTOR :	0.000	0.852	0.838	0.000	0.789	0.792	0.000	0.000	0.000	0.000	0.000	0.000	0.700	0.000	0.727	0.000	0.835
		0.8	49			0.8	14							0.8	50		0.033

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Old Pearce Rd City: Wake Forest Control: 1-Way Stop(WB)

Project ID: 25-160032-004 Date: 5/7/2025

_	,,	-()						Data	- HT						5///2025		
NS/EW Streets:		Averette Ro	d/CR 1945			Averette Ro	I/CR 1945			Old Pea	arce Rd			Old Pea	rce Rd		
AM	0	NORTH 1	IBOUND 0	0	0	SOUTH 1	BOUND 0	0	0	EASTI 0	BOUND 0	0	0	WESTE 1	BOUND	0	
/AIVI	NL	NT	NR	NU	SL	ST	SR	SU	EL	ĒΤ	ER	EU	WL	WT	WR	wu	TOTAL
7:00 AM	0	2	0	0	0	2	0	0	0	0	0	0	3	0	0	0	7
7:15 AM	0	6	1	0	0	1	0	0	0	0	0	0	1	0	0	0	9
7:30 AM	0	5	0	0	1	2	0	0	0	0	0	0	1	0	0	0	9
7:45 AM	0	0	1	0	1	4	0	0	0	0	0	0	1	0	0	0	7
8:00 AM	0	4	0	0	1	2	0	0	0	0	0	0	4	0	0	0	11
8:15 AM	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	6
8:30 AM	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
8:45 AM	0	4	1	0	0	0	0	0	0	0	1	0	0	0	1	0	7
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	27	3	0	3	14	0	0	0	0	1	0	11	0	1	0	60
APPROACH %'s:	0.00%	90.00%	10.00%	0.00%	17.65%	82.35%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	91.67%	0.00%	8.33%	0.00%	
PEAK HR:		07:00 AM -	MA 00:80														TOTAL
PEAK HR VOL:	0	13	2	0	2	9	0	0	0	0	0	0	6	0	0	0	32
PEAK HR FACTOR:	0.000	0.542	0.500	0.000	0.500	0.563	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.889
		0.5	36			0.5	50							0.5	00		0.003
		NORTH	IBOUND			SOUTH	BOLIND			FASTI	BOUND			WESTE	ROLIND		
PM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	5
4:15 PM	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	3
4:30 PM	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	4
4:45 PM	0	2	1	0	0	3	0	0	0	0	0	0	0	0	2	0	8
5:00 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	5
5:30 PM	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	0	5
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	6	6	0	3	13	0	0	0	0	0	0	2	0	2	0	32
APPROACH %'s:	0.00%	50.00%	50.00%	0.00%	18.75%	81.25%	0.00%	0.00%					50.00%	0.00%	50.00%	0.00%	
PEAK HR :		05:00 PM -															TOTAL
PEAK HR VOL:	0	1	3	0	1	6	0	0	0	0	0	0	1	0	0	0	12
PEAK HR FACTOR :	0.000	0.250	0.375	0.000	0.250	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.600
		0.5	UU			0.5	83							0.2	50		

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Old Pearce Rd City: Wake Forest Control: 1-Way Stop(WB)

Data - Bikes

Project ID: 25-160032-004 Date: 5/7/2025

								Data	BIKES								-
NS/EW Streets:		Averette R	d/CR 1945			Averette Ro	I/CR 1945			Old Pea	arce Rd			Old Pe	arce Rd		
		NORTI	HBOUND			SOUTH	BOUND			EAST	BOUND			WEST	BOUND		
AM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s:																	
PEAK HR :		07:00 AM	- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
						0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
					5.555	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
								0.000	0.000			0.000	0.000			0.000	
DAA			HBOUND			SOUTH	BOUND			EAST	BOUND				BOUND		
PM	0	1	0	0	0	SOUTH 1	BOUND 0	0	0	EASTI 0	BOUND 0	0	0	WEST	BOUND 0	0	
	NL	1 NT	0 NR	0 NU	0 SL	SOUTH 1 ST	BOUND 0 SR	0 SU	0 EL	EASTI 0 ET	BOUND 0 ER	0 EU	0 WL	WEST 1 WT	BOUND 0 WR	0 WU	TOTAL
4:00 PM	NL 0	1 NT 0	NR 0	0 NU 0	0 SL 0	SOUTH 1 ST 0	BOUND 0 SR 0	0 SU 0	0 EL 0	EASTI 0 ET 0	BOUND 0 ER 0	0 EU 0	0 WL 0	WEST 1 WT 0	BOUND 0 WR 0	0 WU 0	0
4:00 PM 4:15 PM	NL 0 0	1 NT 0 0	0 NR 0 0	0 NU 0 0	0 SL 0	SOUTH 1 ST 0	BOUND 0 SR 0	0 SU 0 0	0 EL 0	EASTI 0 ET 0 0	BOUND 0 ER	0 EU 0 0	0 WL 0	WEST 1 WT	BOUND 0 WR 0	0 WU 0 0	0
4:00 PM 4:15 PM 4:30 PM	0 0 0	1 NT 0 0 0	0 NR 0 0	0 NU 0 0	0 SL 0 0	SOUTH 1 ST 0 0	BOUND 0 SR 0 0	0 SU 0 0	0 EL 0 0	EASTI 0 ET 0 0	BOUND 0 ER 0 0	0 EU 0 0	0 WL 0 0	WEST 1 WT 0 0	BOUND 0 WR 0 0	0 WU 0 0	0 0 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0	1 NT 0 0 0 0	0 NR 0 0 0	0 NU 0 0 0	0 SL 0 0 0	SOUTH 1 ST 0 0 1	BOUND 0 SR 0 0 0 0	0 SU 0 0 0	0 EL 0 0 0	EASTI 0 ET 0 0 0	BOUND 0 ER 0 0 0 0 0	0 EU 0 0 0	0 WL 0 0	WEST 1 WT 0 0 0	BOUND 0 WR 0 0 0	0 WU 0 0 0	0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	NL 0 0 0 0	1 NT 0 0 0 0	0 NR 0 0 0 0	0 NU 0 0 0 0	0 SL 0 0 0 0	SOUTH 1 ST 0 0 1 0	BOUND 0 SR 0 0 0	0 SU 0 0 0	0 EL 0 0 0	EASTI 0 ET 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0	0 EU 0 0 0 0	0 WL 0 0 0	WEST 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TBOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0	0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0	0 NR 0 0 0 0 0	0 NU 0 0 0 0	0 SL 0 0 0 0	SOUTH 1 ST 0 0 1 0	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0	0 EL 0 0 0	EASTI 0 ET 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0	0 WL 0 0 0 0	WEST 1 WT 0 0 0	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0	0 0 1 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0 0	0 NR 0 0 0 0 0	0 NU 0 0 0 0	0 SL 0 0 0 0 0	SOUTH 1 ST 0 0 1 0 0	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0	0 EL 0 0 0 0	EASTI 0 ET 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0	0 WL 0 0 0 0	WEST 1 WT 0 0 0 0 0 0 0	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0	0 0 1 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0	0 NU 0 0 0 0 0	0 SL 0 0 0 0 0	SOUTH 1 1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0 0	0 EL 0 0 0 0 0	EASTI 0 ET 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0	0 WL 0 0 0 0 0	WEST 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TBOUND 0 WR 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0	0 0 1 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0	0 SL 0 0 0 0 0 0 0	SOUTH 1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 SR	0 SU 0 0 0 0 0 0	0 EL 0 0 0 0 0 0	EASTI 0 0 0 0 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 ER	0 EU 0 0 0 0 0 0 0	0 WL 0 0 0 0 0 0 0	WEST 1 WT 0 0 0 0 0 0 0 0 0 WT	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 WR	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:10 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0	0 NU 0 0 0 0 0	0 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 1 ST 0 0 1 0 0 0 0 ST 1	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0 0 0	0 EL 0 0 0 0 0	EASTI 0 ET 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0	0 WL 0 0 0 0 0	WEST 1 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TBOUND 0 WR 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0	0 0 1 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0	0 SL 0 0 0 0 0 0 0	SOUTH 1 ST 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 SR	0 SU 0 0 0 0 0 0	0 EL 0 0 0 0 0 0	EASTI 0 0 0 0 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 ER	0 EU 0 0 0 0 0 0 0	0 WL 0 0 0 0 0 0 0	WEST 1 WT 0 0 0 0 0 0 0 0 0 WT	BOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 WR	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0 0	0 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 1 ST 0 0 0 1 0 0 0 0 0 0 0 ST 1 1 100.00%	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0	EASTI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0 0	0 WL 0 0 0 0 0 0 0	WEST 1	**TBOUND	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 1	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0	0 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 1 ST 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0	EASTI 0 0 ET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0	0 WL 0 0 0 0 0 0 0	WEST 1 WT 0 0 0 0 0 0 WT 0 0	FBOUND 0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NU 0 0 0 0 0 0 0 0	0 SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOUTH 1 ST 0 0 0 1 0 0 0 0 0 0 0 ST 1 1 100.00%	BOUND 0 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EL 0 0 0 0 0 0	EASTI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BOUND 0 ER 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 EU 0 0 0 0 0 0 0	0 WL 0 0 0 0 0 0 0	WEST 1	**TBOUND	0 WU 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL 1

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Old Pearce Rd **City:** Wake Forest

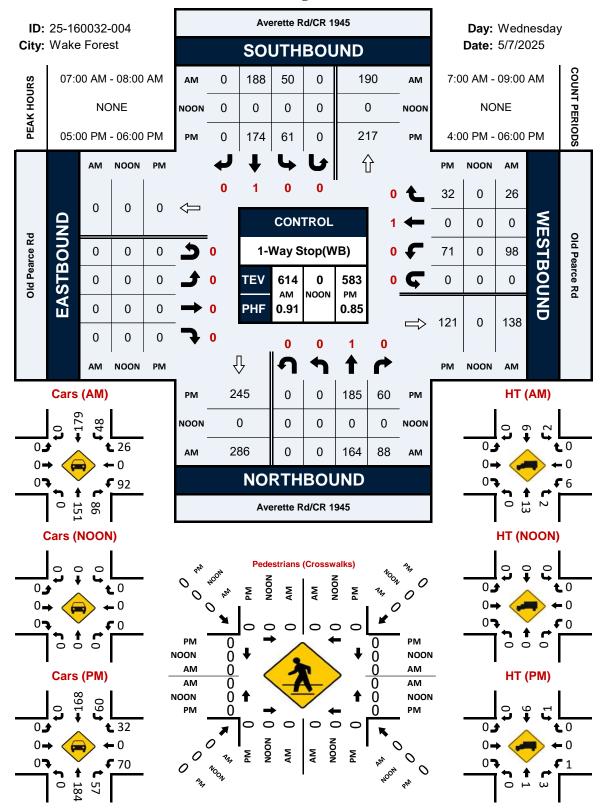
Data - Pedestrians (Crosswalks)

NS/EW Streets:	Averette R	d/CR 1945	Averette F	Rd/CR 1945	Old Pea	arce Rd	Old Pea	arce Rd	
AM		'H LEG	SOUT	'H LEG	EAST	LEG	WES	T LEG	
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR:	07:00 AM	- 08:00 AM							TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:									

PM	NOR	TH LEG	SOUT	H LEG	EAST	LEG	WES	T LEG	
PIVI	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR:	05:00 PM	- 06:00 PM							TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:									

Averette Rd/CR 1945 & Old Pearce Rd

Peak Hour Turning Movement Count



Project ID: 25-160032-004 Location: Averette Rd/CR 1945 & Old Pearce Rd City: Wake Forest Day: Wednesday Date: 5/7/2025

												- Cars,	PU, Van	s - Hea	vy Truc	ks									
		Ave	erette Ro	d/CR 19	945			Ave	rette R	d/CR 19	945				Old Pea	rce Rd					Old Pear				
			Northb	ound					South						Eastb	ound					Westbo	und			
Start Time	Left	Thru	Rgt	Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn	Peds .	App. Total	Left	Thru	Rgt	Uturn	Peds /	App. Total	Left	Thru	Rgt	Uturn	Peds	App. Total	Int. Total
7:00 AM	0	38	23	0	0	61	13	32	0	0	0	45	0	0	0	0	0	0	22	0	7	0	0	29	135
7:15 AM	0	49	21	0	0	70	16	53	0	0	0	69	0	0	0	0	0	0	20	0	4	0	0	24	163
7:30 AM	0	42	20	0	0	62	15	57	0	0	0	72	0	0	0	0	0	0	26	0	9	0	0	35	169
7:45 AM	0	35	24	0	0	59	6	46	0	0	0	52	0	0	0	0	0	0	30	0	6	0	0	36	147
Total	0	164	88	0	0	252	50	188	0	0	0	238	0	0	0	0	0	0	98	0	26	0	0	124	614
8:00 AM	0	27	15	0	0	42	13	46	0	0	0	59	0	0	0	0	0	0	21	0	3	0	0	24	125
8:15 AM	0	28	13	0	0	41	5	38	0	0	0	43	0	0	0	0	0	0	16	0	4	0	0	20	104
8:30 AM	0	19	7	0	0	26	4	29	0	0	0	33	0	0	0	0	0	0	18	0	4	0	0	22	81
8:45 AM	0	36	16	0	0	52	1	32	0	0	0	33	0	0	1	0	0	1	18	0	4	0	0	22	108
Total	0	110	51	0	0	161	23	145	0	0	0	168	0	0	1	0	0	1	73	0	15	0	0	88	418
BREAK																									
4:00 PM	0	59	16	0	0	75	11	26	0	٥	0	37	0	0	0	0	0	οΙ	21	0	0	0	0	21	133
4:15 PM	0	42	13	Ö	0	55	20	40	0	0	0	60	n	0	0	0	0	o o	24	n	5	0	Ö	29	144
4:30 PM	0	47	12	Ö	0	59	22	37	0	0	0	59	n	Ö	0	0	0	0	16	0	13	0	Ö	29	147
4:45 PM	0	41	16	Ö	0	57	22	30	0	0	0	52	n	0	0	0	0	o o	9	0	10	0	0	19	128
Total	0	189	57	0	0	246	75	133	0	0	0	208	0	0	0	0	0	0	70	0	28	0	0	98	552
5:00 PM	0	47	16	ō	0	63	13	42	0	0	0	55	0	0	0	0	ō	0	13	0	6	0	0	19	137
5:15 PM	0	45	16	0	0	61	19	43	0	0	0	62	0	0	0	0	0	0	18	0	11	0	0	29	152
5:30 PM	0	39	11	0	0	50	12	36	0	0	0	48	0	0	0	0	0	0	15	0	10	0	0	25	123
5:45 PM	0	54	17	0	0	71	17	53	0	0	0	70	0	0	0	0	0	0	25	0	5	0	0	30	171
Total	0	185	60	0	0	245	61	174	0	0	0	235	0	0	0	0	0	0	71	0	32	0	0	103	583
0 17.11		040	050	•	•	004	000	0.40		•		040	•			•		- 1	040		404		•	440	0407
Grand Total	0	648	256	0	0	904	209	640	0	0	0	849	0	0	100.0	0	0	1	312	0	101	0	0	413	2167
Apprch %	0.0	71.7	28.3	0.0	0.0	44.7	24.6	75.4	0.0	0.0	0.0	00.0	0.0	0.0	100.0	0.0	0.0	0.0	75.5	0.0	24.5	0.0	0.0	40.4	
Total %	0.0	29.9	11.8 247	0.0	0.0	41.7	9.6	29.5	0.0	0.0	0.0	39.2	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0	4.7 98	0.0	0.0	19.1 397	0075
Cars, PU, Vans	0	615		0		862		613	0	0		816	0	0	0	0		0	299	0		0			2075
% Cars, PU, Vans	0.0	94.9	96.5	0.0		95.4	97.1	95.8	0.0	0.0		96.1	0.0	0.0	0.0	0.0		0.0	95.8	0.0	97.0	0.0		96.1	95.8
Heavy trucks	0	33	9	0		42	6	27	0	0		33	0	0	100.0	0		100.0	13	0	3	0		16	92
%Heavy trucks	0.0	5.1	3.5	0.0		4.6	2.9	4.2	0.0	0.0		3.9	0.0	0.0	100.0	0.0		100.0	4.2	0.0	3.0	0.0		3.9	4.2

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Kavanaugh Rd City: Wake Forest Control: 1-Way Stop(EB)

Project ID: 25-160032-005 Date: 5/7/2025

					Data - Total												_
NS/EW Streets:		Averette Rd	/CR 1945			Averette Ro	I/CR 1945			Kavanau	ıgh Rd			Kavana	ugh Rd		
		NORTH	BOUND			SOUTH	BOUND			EASTE	OUND			WEST	BOUND		
AM	1	1	0	0	0	0.5	0.5	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	53	0	0	0	45	3	0	8	0	5	0	0	0	0	0	117
7:15 AM	0	60	0	0	0	69	3	0	10	0	1	0	0	0	0	0	143
7:30 AM	3	51	0	0	0	73	10	0	11	0	6	0	0	0	0	0	154
7:45 AM	3	51	0	0	0	66	10	0	8	0	2	0	0	0	0	0	140
8:00 AM	2	35	0	0	0	56	10	0	8	0	5	0	0	0	0	0	116
8:15 AM	2	30	0	0	0	50	6	0	10	0	4	0	0	0	0	0	102
8:30 AM	2	21	0	0	0	39	8	0	6	0	12	0	0	0	0	0	88
8:45 AM	8	43	0	0	0	41	11	0	8	0	7	0	0	0	0	0	118
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	23	344	0	0	0	439	61	0	69	0	42	0	0	0	0	0	978
APPROACH %'s:	6.27%	93.73%	0.00%	0.00%	0.00%	87.80%	12.20%	0.00%	62.16%	0.00%	37.84%	0.00%					
PEAK HR:	07:00 AM - 08:00 AM																TOTAL
PEAK HR VOL:	9	215	0	0	0	253	26	0	37	0	14	0	0	0	0	0	554
PEAK HR FACTOR:	0.750	0.896	0.000	0.000	0.000	0.866	0.650	0.000	0.841	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.899
		0.01	22			0.0	40			0.7							0.055

		NORTH	IBOUND			SOUTH	BOUND			EASTB	OUND			WEST	rbound		
PM	1	1	0	0	0	0.5	0.5	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	3	67	0	0	0	37	10	0	6	0	3	0	0	0	0	0	126
4:15 PM	6	50	0	0	0	57	10	0	5	0	2	0	0	0	0	0	130
4:30 PM	9	54	0	0	0	42	11	0	5	0	3	0	0	0	0	0	124
4:45 PM	7	50	0	0	0	34	4	0	7	0	5	0	0	0	0	0	107
5:00 PM	6	55	0	0	0	47	9	0	7	0	4	0	0	0	0	0	128
5:15 PM	5	55	0	0	0	50	10	0	7	0	9	0	0	0	0	0	136
5:30 PM	4	51	0	0	0	45	9	0	1	0	4	0	0	0	0	0	114
5:45 PM	2	64	0	0	0	69	7	0	8	0	6	0	0	0	0	0	156
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	42	446	0	0	0	381	70	0	46	0	36	0	0	0	0	0	1021
APPROACH %'s:	8.61%	91.39%	0.00%	0.00%	0.00%	84.48%	15.52%	0.00%	56.10%	0.00%	43.90%	0.00%					
PEAK HR :		05:00 PM -	06:00 PM														TOTAL
PEAK HR VOL:	17	225	0	0	0	211	35	0	23	0	23	0	0	0	0	0	534
PEAK HR FACTOR :	0.708	0.879	0.000	0.000	0.000	0.764	0.875	0.000	0.719	0.000	0.639	0.000	0.000	0.000	0.000	0.000	0.856
		0.9	17			0.8)9			0.7	19						0.000

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Kavanaugh Rd City: Wake Forest Control: 1-Way Stop(EB)

Project ID: 25-160032-005 Date: 5/7/2025

_	_	
	- Cars	

NS/EW Streets:		Averette Ro	I/CR 1945			Averette Ro	I/CR 1945			Kavanau	ıgh Rd			Kavana	ugh Rd		
AM	1 NL	NORTH 1 NT	0 NR	0 NU	0 SL	SOUTH 0.5 ST	0.5 SR	0 SU	0 EL	EASTE 1 ET	0 ER	0 EU	0 WL	0 WT	BOUND 0 WR	0 WU	TOTAL
7:00 AM	3	51	0	0	0	42	2	0	8	0	5	0	0	0	0	0	111
7:15 AM 7:30 AM	0 3	53 47	0	0	0	67 71	3	0	10 10	0	1 6	0	0	0	0	0	134 146
7:30 AM 7:45 AM	1	51	0	0	0	61	9	0	7	0	2	0	0	0	0	0	131
8:00 AM	2	31	0	0	0	51	9	0	7	0	5	0	0	0	0	0	105
8:15 AM	2	29	ő	ő	Ö	47	6	ő	ģ	0	4	0	Ô	0	Ô	ŏ	97
8:30 AM	2	18	Ö	ō	Ö	38	8	ō	6	Ö	11	ō	ō	ō	ō	Ö	83
8:45 AM	8	40	0	0	0	41	11	0	6	0	7	0	0	0	0	0	113
TOTAL VOLUMES : APPROACH %'s :	NL 21 6.16%	NT 320 93.84%	NR 0 0.00%	NU 0 0.00%	SL 0 0.00%	ST 418 88.00%	SR 57 12.00%	SU 0 0.00%	EL 63 60.58%	ET 0 0.00%	ER 41 39.42%	EU 0 0.00%	WL 0	WT 0	WR 0	WU 0	TOTAL 920
PEAK HR:		93.04% 07:00 AM -		0.00%	0.00%	00.0070	12.00%	0.0076	00.36%	0.0076	39.4270	0.00%					TOTAL
PEAK HR VOL:	7	202	08:00 AM	0	0	241	23	0	35	0	14	0	0	0	0	0	522
PEAK HR FACTOR :	0.583	0.953	0.000	0.000	0.000	0.849	0.639	0.000	0.875	0.000	0.583	0.000	0.000	0.000	0.000	0.000	
1 ZAKTIKI AGIGKI	0.505	0.9		0.000	0.000	0.8		0.000	0.075	0.7		0.000	0.000	0.000	0.000	0.000	0.894
		NORTH				SOUTH				EASTE					BOUND		
PM	1	1	0	0	0	0.5	0.5	0	0	1	0	0	0	0	0	0	
4 00 044	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM 4:15 PM	2 6	64 50	0	0	0	36 55	10 10	0	6 5	0	3	0	0	0	0	0	121 128
4:15 PM 4:30 PM	9	50 53	0	0	0	55 40	11	0	5	0	3	0	0	0	0	0	128
4:45 PM	7	47	0	ő	0	31	4	0	7	0	5	0	0	0	0	0	101
5:00 PM	6	55	0	0	0	46	9	0	7	0	4	0	0	0	0	0	127
5:15 PM	5	53	ŏ	ŏ	ŏ	47	10	ő	7	Ŏ	9	ő	Ŏ	ŏ	ŏ	Ŏ	131
5:30 PM	3	49	0	0	0	42	9	0	1	0	4	0	Ó	0	Ó	0	108
5:45 PM	2	64	0	0	0	69	7	0	8	0	6	0	0	0	0	0	156
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES:	40	435	0	0	0	366	70	0	46	0	36	0	0	0	0	0	993
APPROACH %'s:	8.42%	91.58%	0.00%	0.00%	0.00%	83.94%	16.06%	0.00%	56.10%	0.00%	43.90%	0.00%					
PEAK HR :		05:00 PM -															TOTAL
PEAK HR VOL:	16 0.667	221 0.863	0.000	0.000	0.000	204 0.739	35 0.875	0.000	23 0.719	0.000	23 0.639	0 0.000	0 0.000	0.000	0	0.000	522
PEAK HR FACTOR:															0.000		

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Kavanaugh Rd City: Wake Forest Control: 1-Way Stop(EB)

Data - HT	Project ID: 25-160032-005 Date: 5/7/2025

NS/EW Streets:		Averette Ro	I/CR 1945			Averette Ro	I/CR 1945			Kavana	ugh Rd			Kavana	nugh Rd		
AM	1 NL	NORTH 1 NT	BOUND 0 NR	0 NU	0 SL	SOUTH 0.5 ST	BOUND 0.5 SR	0 SU	0 EL	EASTE 1 ET	O ER	0 EU	0 WL	WEST 0 WT	BOUND 0 WR	0 WU	TOTAL
7:00 AM 7:15 AM 7:30 AM 7:45 AM	0 0 0	2 7 4 0	0 0 0	0 0 0	0 0 0	3 2 2 5	1 0 1	0	0 0 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	6 9 8 9
8:00 AM 8:15 AM 8:30 AM 8:45 AM	0 0 0 0	4 1 3 3	0 0 0 0	0 0 0 0	0 0 0 0	5 3 1 0	1 0 0	0 0 0	1 1 0 2	0 0 0 0	0 0 1	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	11 5 5 5
TOTAL VOLUMES : APPROACH %'s :	NL 2 7.69%	NT 24 92.31%	NR 0 0.00%	NU 0 0.00%	SL 0 0.00%	ST 21 84.00%	SR 4 16.00%	SU 0 0.00%	EL 6 85.71%	ET 0 0.00%	ER 1 14.29%	EU 0 0.00%	WL 0	WT 0	WR 0	WU 0	TOTAL 58
PEAK HR : PEAK HR VOL : PEAK HR FACTOR :	2 0.250	07:00 AM - 13 0.464 0.5	0.000	0.000	0 0.000	12 0.600 0.6	3 0.750 25	0 0.000	2 0.500	0 0.000 0.5	0 0.000 00	0 0.000	0 0.000	0.000	0.000	0.000	TOTAL 32 0.889
PM	1 NL	NORTH 1 NT	BOUND 0 NR	0 NU	0 SL	SOUTH 0.5 ST	BOUND 0.5 SR	0 SU	0 FL	EASTE 1 FT	BOUND 0 FR	0 FU	0 WI	WEST 0 WT	BOUND 0 WR	0 WU	TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	1 0 0 0 0	3 0 1 3 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 2 2 3 1	0 0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	5 2 3 6
5:30 PM 5:45 PM	0	0	0	0	0	3 0	0	0	0	0	0	0	0	0	0	0	6 0
TOTAL VOLUMES : APPROACH %'s :	NL 2 15.38%	NT 11 84.62%	NR 0 0.00%	NU 0 0.00%	SL 0 0.00%	ST 15 100.00%	SR 0 0.00%	SU 0 0.00%	EL 0	ET 0	ER 0	EU O	WL 0	WT 0	WR 0	WU 0	TOTAL 28
PEAK HR : PEAK HR VOL : PEAK HR FACTOR :	1 0.250	05:00 PM - 4 0.500 0.4	0.000	0 0.000	0 0.000	7 0.583 0.5	0 0.000 83	0 0.000	0 0.000	0 0.000	0.000	0 0.000	0 0.000	0 0.000	0 0.000	0 0.000	TOTAL 12 0.500

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Kavanaugh Rd City: Wake Forest Control: 1-Way Stop(EB)

Data - Bikes

	Date:	5/7/2025	

Project ID: 25-160032-005

								Dutu	BIKES								-
NS/EW Streets:		Averette R	d/CR 1945			Averette Ro	I/CR 1945			Kavana	ugh Rd			Kavana	augh Rd		
		NORT	HBOUND			SOUTH	BOUND			EAST	BOUND			WEST	FBOUND		
AM	1	1	0	0	0	0.5	0.5	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s:																	
PEAK HR :		07:00 AM	- 08:00 AM														TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
								'									
DD4			HBOUND			SOUTH					BOUND				TBOUND		
PM	1	1	0	0	0	0.5	0.5	0	0	1	0	0	0	0	0	0	
	NL	1 NT	0 NR	NU	SL	0.5 ST	0.5 SR	SU	EL	1 ET	0 ER	EU	WL	0 WT	0 WR	WU	TOTAL
4:00 PM	NL 0	1 NT 0	NR 0	NU 0	SL 0	0.5 ST 0	0.5 SR 0	SU 0	EL 0	1 ET 0	0 ER 0	EU 0	WL 0	0 WT 0	WR 0	WU 0	0
4:00 PM 4:15 PM	NL 0 0	1 NT 0 0	0 NR 0 0	NU 0 0	SL 0 0	0.5 ST 0 0	0.5 SR 0 0	SU 0 0	0 0	1 ET	0 ER	0 0	0 0	0 WT	0 WR 0 0	0 0	0
4:00 PM 4:15 PM 4:30 PM	0 0 0	1 NT 0 0 0	0 NR 0 0	0 0 0	SL 0 0 0	0.5 ST 0 0 1	0.5 SR 0 0	SU 0 0	0 0 0	1 ET 0 0 0	0 ER 0 0	0 0 0	0 0 0	0 WT 0 0	0 WR 0 0	0 0 0	0 0 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0	1 NT 0 0 0 0	0 NR 0 0 0	NU 0 0 0 0	SL 0 0 0 0	0.5 ST 0 0 1	0.5 SR 0 0 0	SU 0 0 0 0	EL 0 0 0	1 ET 0 0 0	0 ER 0 0 0	0 0 0 0	WL 0 0 0 0	0 WT 0 0 0	0 WR 0 0 0	0 0 0 0	0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM	0 0 0	1 NT 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	0.5 ST 0 0 1 0	0.5 SR 0 0 0 0	SU 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0	0 ER 0 0	0 0 0 0 0	0 0 0	0 WT 0 0	0 WR 0 0 0 0	WU 0 0 0 0	0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM	NL 0 0 0 0	1 NT 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0	SL 0 0 0 0	0.5 ST 0 0 1	0.5 SR 0 0 0	SU 0 0 0 0 0 0 0 0	EL 0 0 0	1 ET 0 0 0 0	0 ER 0 0 0 0	0 0 0 0	WL 0 0 0 0	0 WT 0 0 0 0	0 WR 0 0 0	0 0 0 0	0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM	NL 0 0 0 0 0	1 NT 0 0 0 0 0	0 NR 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0	0.5 ST 0 0 1 0	0.5 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0	0 ER 0 0 0 0 0	EU 0 0 0 0 0	WL 0 0 0 0 0	0 WT 0 0 0 0	0 WR 0 0 0 0	WU 0 0 0 0 0	0 0 1 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	NL 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0	0.5 SR 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0	0 WR 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0 0 0	0.5 SR 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:30 PM 5:00 PM 5:10 PM 5:30 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0	0 NR 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0.5 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0	0 ER 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0	0 WR 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0 0 0	0.5 SR 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0 0 0 0 0 5 T 1 100.00%	0.5 SR 0 0 0 0 0 0 0 0 0 SR 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL 1
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM TOTAL VOLUMES: APPROACH %'s: PEAK HR: 1	NL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 SR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM TOTAL VOLUMES : APPROACH %'s:	NL 0 0 0 0 0 0 0 0 0	1 NT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 NR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.5 ST 0 0 1 0 0 0 0 0 0 0 5 T 1 100.00%	0.5 SR 0 0 0 0 0 0 0 0 0 SR 0 0 0 0 0 0 0 0	SU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 ET 0 0 0 0 0 0 0 0 0	0 ER 0 0 0 0 0 0 0 0 0	EU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 WR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 TOTAL 1

Intersection Turning Movement Count

Location: Averette Rd/CR 1945 & Kavanaugh Rd **City:** Wake Forest **Project ID:** 25-160032-005 **Date:** 5/7/2025

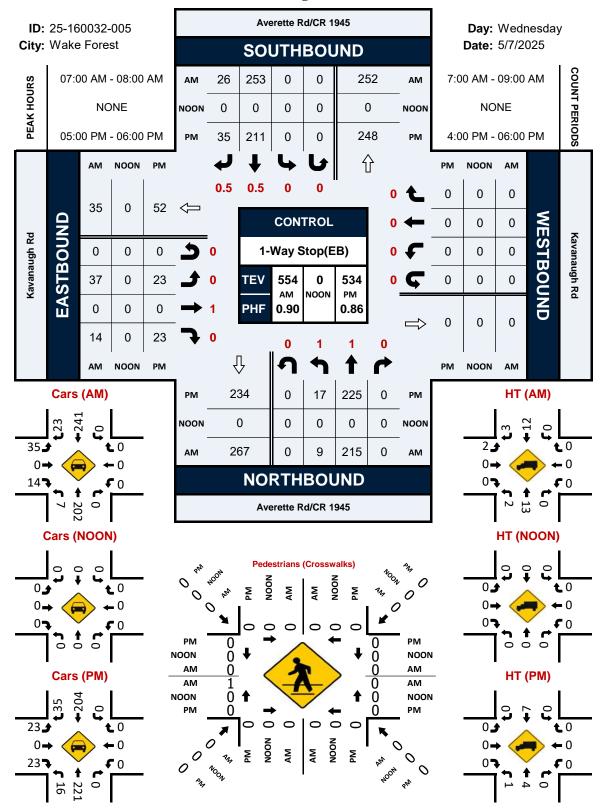
Data - Pedestrians (Crosswalks)

NS/EW Streets:	Averette R	d/CR 1945	Averette R	Rd/CR 1945	Kavana	ugh Rd	Kavanaı	ıgh Rd	
AM		'H LEG		'H LEG	_	LEG	WEST	-	
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	1	0	1
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES:	0	0	0	0	0	0	1	0	1
APPROACH %'s:							100.00%	0.00%	
PEAK HR:	07:00 AM	- 08:00 AM							TOTAL
PEAK HR VOL :	0	0	0	0	0	0	1	0	1
PEAK HR FACTOR:							0.250		0.350
							0.2	50	0.250

PM	NORT	TH LEG	SOUT	H LEG	EAST	LEG	WEST	Γ LEG	
PIVI	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s:									
PEAK HR:	05:00 PM	- 06:00 PM							TOTAL
PEAK HR VOL:	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR:									

Averette Rd/CR 1945 & Kavanaugh Rd

Peak Hour Turning Movement Count



Project ID: 25-160032-005 Location: Averette Rd/CR 1945 & Kavanaugh Rd City: Wake Forest Day: Wednesday Date: 5/7/2025

										Groups	Printed	- Cars,	PU, Van	s - Hea	vy Truc	cks									
		Ave	rette F	Rd/CR 19	945			Ave	erette F	d/CR 19	945				Kavana	ugh Rd					Kavana	ugh Rd			
				bound					South						Eastb						Westk				
Start Time	Left	Thru	Rgt	Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn		App. Total		Thru	Rgt	Uturn	Peds	App. Total	Left	Thru	Rgt	Uturn	Peds	App. Total	Int. Total
7:00 AM	3	53	0	0	0	56	0	45	3	0	0	48	8	0	5	0	0	13	0	0	0	0	0	0	117
7:15 AM	0	60	0	0	0	60	0	69	3	0	0	72	10	0	1	0	0	11	0	0	0	0	0	0	143
7:30 AM	3	51	0	0	0	54	0	73	10	0	0	83	11	0	6	0	0	17	0	0	0	0	0	0	154
7:45 AM	3	51	0	0	0	54	0	66	10	0	0	76	8	0	2	0	1	10	0	0	0	0	0	0	140
Total	9	215	0	0	0	224	0	253	26	0	0	279	37	0	14	0	1	51	0	0	0	0	0	0	554
8:00 AM	2	35	0	0	0	37	0	56	10	0	0	66	8	0	5	0	0	13	0	0	0	0	0	0	116
8:15 AM	2	30	0	0	0	32	0	50	6	0	0	56	10	0	4	0	0	14	0	0	0	0	0	0	102
8:30 AM	2	21	0	0	0	23	0	39	8	0	0	47	6	0	12	0	0	18	0	0	0	0	0	0	88
8:45 AM	8	43	0	0	0	51	0	41	11	0	0	52	8	0	7	0	0	15	0	0	0	0	0	0	118
Total	14	129	0	0	0	143	0	186	35	0	0	221	32	0	28	0	0	60	0	0	0	0	0	0	424
BREAK																									
4:00 PM	3	67	0	0	0	70	0	37	10	0	0	47	6	0	3	0	0	9	0	0	0	0	0	0	126
4:15 PM	6	50	0	0	0	56	0	57	10	0	0	67	5	0	2	0	0	7	0	0	0	0	0	0	130
4:30 PM	9	54	0	0	0	63	0	42	11	0	0	53	5	0	3	0	0	8	0	0	0	0	0	0	124
4:45 PM	7	50	0	0	0	57	0	34	4	0	0	38	7	0	5	0	0	12	0	0	0	0	0	0	107
Total	25	221	0	0	0	246	0	170	35	0	0	205	23	0	13	0	0	36	0	0	0	0	0	0	487
5:00 PM	6	55	0	0	0	61	0	47	9	0	0	56	7	0	4	0	0	11	0	0	0	0	0	0	128
5:15 PM	5	55	0	0	0	60	0	50	10	0	0	60	7	0	9	0	0	16	0	0	0	0	0	0	136
5:30 PM	4	51	0	0	0	55	0	45	9	0	0	54	1	0	4	0	0	5	0	0	0	0	0	0	114
5:45 PM	2	64	0	0	0	66	0	69	7	0	0	76	8	0	6	0	0	14	0	0	0	0	0	0	156
Total	17	225	0	0	0	242	0	211	35	0	0	246	23	0	23	0	0	46	0	0	0	0	0	0	534
Grand Total	65	790	0	0	0	855	0	820	131	0	0	951	115	0	78	0	1	193	0	0	0	0	0	0	1999
Apprch %	7.6	92.4	0.0	0.0	0.0		0.0	86.2	13.8	0.0	0.0		59.6	0.0	40.4	0.0	0.5		0.0	0.0	0.0	0.0	0.0		
Total %	3.3	39.5	0.0	0.0	0.0	42.8	0.0	41.0	6.6	0.0	0.0	47.6	5.8	0.0	3.9	0.0	0.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	
Cars, PU, Vans	61	755	0	0		816	0	784	127	0		911	109	0	77	0		186	0	0	0			0	1913
% Cars, PU, Vans	93.8	95.6	0.0	0.0		95.4	0.0	95.6	96.9	0.0		95.8	94.8	0.0	98.7	0.0		96.4	0.0	0.0	0.0			0.0	95.7
Heavy trucks	4	35	0	0		39	0	36	4	0		40	6	0	1	0		7	0	0	0			0	86
%Heavy trucks	6.2	4.4	0.0	0.0		4.6	0.0	4.4	3.1	0.0		4.2	5.2	0.0	1.3	0.0		3.6	0.0	0.0	0.0	0.0		0.0	4.3

Project ID: 25-160032-005 Location: Averette Rd/CR 1945 & Kavanaugh Rd City: Wake Forest

PEAK HOURS

Day: Wednesday Date: 5/7/2025

AM Sity.	··········	0.001																Duto.	0,,,202	•	
		No	te Rd/Cl	nd				ıthbou	nd			Ea	anaugh stboun	d			W	anaugh estboun	d		
Start Time	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analy							·-				·-	•	·-	•	•	•			·-		·
Peak Hour for En	itire Inter	section I	Begins a	at 07:00	AM																
7:00 AM	3	53	0	0	56	0	45	3	0	48	8	0	5	0	13	0	0	0	0	0	117
7:15 AM	0	60	0	0	60	0	69	3	0	72	10	0	1	0	11	0	0	0	0	0	143
7:30 AM	3	51	0	0	54	0	73	10	0	83	11	0	6	0	17	0	0	0	0	0	154
7:45 AM	3	51	0	0	54	0	66	10	0	76	8	0	2	0	10	0	0	0	0	0	140
Total Volume	9	215	0	0	224	0	253	26	0	279	37	0	14	0	51	0	0	0	0	0	554
% App. Total	4.0	96.0	0.0	0.0	100	0.0	90.7	9.3	0.0	100	72.5	0.0	27.5	0.0	100	0.0	0.0	0.0	0.0	0	
PHF					0.933					0.840					0.750						0.899
Cars, PU, Vans	7	202	0	0	209	0	241	23	0	264	35	0	14	0	49	0	0	0	0	0	522
% Cars, PU, Vans	77.8	94.0	0.0	0.0	93.3	0.0	95.3	88.5	0.0	94.6	94.6	0.0	100.0	0.0	96.1	0.0	0.0	0.0	0.0	0.0	94.2
Heavy trucks		13	0	0	15	0	12	3	0	15	2	0	0	0	2	0	0	0	0	0	32
%Heavy trucks	22.2	6.0	0.0	0.0	6.7	0.0	4.7	11.5	0.0	5.4	5.4	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	5.8
PM																					
		Averett	te Rd/Cl	R 1945			Averett	e Rd/Cl	R 1945			Kava	anaugh	Rd			Kav	anaugh	Rd		
			rthbour					ıthbou					stboun					estboun			
Start Time	Left	Thru		Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analy																					
Peak Hour for En	itire Inter	section I	Begins a	at 05:00	PM																
5:00 PM	6	55	0	0	61	0	47	9	0	56	7	0	4	0	11	0	0	0	0	0	128
5:15 PM		55	0	0	60	0	50	10	0	60	7	0	9	0	16	0	0	0	0	0	136
5:30 PM		51	0	0	55	0	45	9	0	54	1	0	4	0	5	0	0	0	0	0	114
5:45 PM		64	0	0	66	0	69	7	0	76	8	0	6	0	14	0	0	0	0	0	156
Total Volume	17	225	0	0	242	0	211	35	0	246	23	0	23	0	46	0	0	0	0	0	534
% App. Total	7.0	93.0	0.0	0.0	100	0.0	85.8	14.2	0.0	100	50.0	0.0	50.0	0.0	100	0.0	0.0	0.0	0.0	0	
PHF					0.917					0.809					0.719						0.856
Cars, PU, Vans	16	221	0	0	237	0	204	35	0	239	23	0	23	0	46	0	0	0	0	0	522
% Cars, PU, Vans	94.1	98.2	0.0	0.0	97.9	0.0	96.7	100.0	0.0	97.2	100.0	0.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	97.8
Heavy trucks	1	4	0	0	5	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	12
%Heavy trucks	5.9	1.8	0.0	0.0	2.1	0.0	3.3	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2

Project ID: 25-160032-004 Location: Averette Rd/CR 1945 & Old Pearce Rd City: Wake Forest

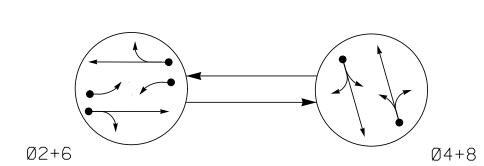
PEAK HOURS

Day: Wednesday Date: 5/7/2025

AM																					
			e Rd/CF				Averett						Pearce l					Pearce			
			rthbour					ıthbour					stbound					estboun			
Start Time		Thru			App. Total	Left	Thru	Rgt	Uturn	App. Total	Left	Thru	Rgt	Uturn A	pp. Total	Left	Thru	Rgt	Uturn	App. Total	Int. Total
Peak Hour Analys																					
Peak Hour for Ent	ire Inters	section E	Begins a	t 07:00	AM																
7:00 AM	0	38	23	0	61	13	32	0	0	45	0	0	0	0	ol	22	0	7	0	29	135
7:15 AM	0	49	21	0	70	16	53	0	0	69	0	0	0	0	0	20	0	,	0	24	163
7:30 AM	0	42	20	0	62	15	57	0	0	72	0	0	0	0	ő	26	0	9	0	35	169
7:45 AM	0	35	24	0	59	6	46	0	0	52	0	0	0	0	0	30	0	6	0	36	147
Total Volume	0	164	88	0	252	50	188	0	0	238	0	0	0	0	0	98	0	26	0	124	614
% App. Total	0.0	65.1	34.9	0.0	100	21.0	79.0	0.0	0.0	100	0.0	0.0	0.0	0.0	0	79.0	0.0	21.0	0.0	100	014
PHF	0.0	00.1	01.0	0.0	0.900		10.0	0.0	0.0	0.826	0.0	0.0	0.0	0.0	Ŭ		0.0	21.0		0.861	0.908
Cars, PU, Vans	0	151	86	0	237	48	179	0	0	227	0	0	0	0	0	92	0	26	0	118	582
% Cars, PU, Vans	0.0	92.1	97.7	0.0	94.0	96.0	95.2	0.0	0.0	95.4	0.0	0.0	0.0	0.0	0.0	93.9	0.0	100.0	0.0	95.2	94.8
Heavy trucks	0	13	2	0	15	2	9	0	0	11	0	0	0	0	0	6	0	0	0	6	32
%Heavy trucks	0.0	7.9	2.3	0.0	6.0	4.0	4.8	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	4.8	5.2
PM																					
PM		Averett	e Rd/CF	R 1945			Averette	e Rd/CF	R 1945	Ī		Old I	Pearce l	Rd			Old	Pearce	Rd		
PM			e Rd/CF					e Rd/CF					Pearce l					Pearce estboun			
Start Time	Left	No Thru	rthbour Rgt	U turn	App. Total	Left			nd	App. Total	Left		stbound	d	φp. Total	Left		estboun	d	App. Total	Int. Total
Start Time Peak Hour Analys	Left is from (No Thru 04:00 Pl	Rgt VI - 06:00	Uturn 0			Sou	ıthbour	nd	App. Total	Left	Ea	stbound	d	φp. Total	Left	We	estboun	d	App. Total	Int. Total
Start Time	Left is from (No Thru 04:00 Pl	Rgt VI - 06:00	Uturn 0			Sou	ıthbour	nd	App. Total	Left	Ea	stbound	d	pp. Total	Left	We	estboun	d	App. Total	Int. Total
Start Time Peak Hour Analys	Left is from (No Thru 04:00 Pl	Rgt M - 06:00	Uturn 0			Sou	ıthbour	nd	App. Total	Left 0	Ea	stbound	d	upp. Total	Left 13	We	estboun	d	App. Total	Int. Total
Start Time Peak Hour Analys Peak Hour for Ent	Left is from (ire Inters	Thru D4:00 Pt	Rgt Rgt Segins a	Uturn 0 0 PM ot 05:00	PM	Left	Sou Thru	Rgt	uturn			Ea: Thru	Rgt	d Uturn /			Thru	Rgt	d Uturn		
Start Time Peak Hour Analys Peak Hour for Ent	Left is from (ire Inters	Thru 104:00 Pt section E	Rgt Rgt Segins a	Uturn 0 0 PM ot 05:00	PM 63	Left 13	Sou Thru	Ithbour Rgt 0	Uturn 0	55	0	Ea: Thru	Rgt 0	Uturn /	0	13	Thru 0	Rgt 6	d Uturn	19	137
Start Time Peak Hour Analys Peak Hour for Ent 5:00 PM 5:15 PM	Left is from (ire Inters	Thru D4:00 Pf section E	Rgt Rgt Segins a	Uturn Uturn O PM ot 05:00	PM 63 61	Left 13 19	Thru 42 43	Rgt 0	Uturn 0	55 62	0	Thru 0	Rgt 0	Uturn A	0	13 18	Thru 0	Rgt 6	Uturn 0	19 29	137 152
Start Time Peak Hour Analys Peak Hour for Ent 5:00 PM 5:15 PM 5:30 PM	Left is from 0 0 0	Thru D4:00 PN section E	Rgt Rgt Segins a	Uturn 0 PM of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 63 61 50	Left 13 19 12	42 43 36	Rgt 0 0 0	Uturn 0 0 0	55 62 48	0 0 0 0	Thru 0 0 0 0 0 0 0 0 0	Rgt 0 0 0 0 0	0 0 0 0 0	0 0	13 18 15	Thru 0	Rgt 6 11	0 0 0 0 0	19 29 25	137 152 123
Start Time Peak Hour Analys Peak Hour for Eni 5:00 PM 5:15 PM 5:30 PM 5:30 PM Total Volume % App. Total	Left is from () ire Inters	No. Thru D4:00 Pf section E 47 45 39 54	Rgt M - 06:00 Begins a 16 16 11 17	0 PM t 05:00 0 0	PM 63 61 50 71 245 100	Left 13 19 12 17	42 43 36 53	Rgt 0 0 0 0 0 0	Uturn 0 0 0 0	55 62 48 70 235 100	0 0 0 0	Thru 0 0 0 0 0 0 0	Rgt 0 0 0 0	0 0 0 0 0	0 0 0	13 18 15 25	Thru 0 0 0 0 0 0 0	Rgt 6 11 10 5	0 0 0 0 0 0	19 29 25 30 103 100	137 152 123 171 583
Start Time Peak Hour Analys Peak Hour for Ent 5:00 PM 5:15 PM 5:30 PM 5:45 PM Total Volume % App. Total PHF	Left is from () ire Inters	No. Thru 04:00 Pt section E	Rgt Rgt	0 PM 0 tt 05:00 0 0 0 0	PM 63 61 50 71 245 100 0.863	13 19 12 17 61 26.0	42 43 36 53 174 74.0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Uturn 0 0 0 0 0	55 62 48 70 235 100 0.839	0 0 0 0 0	0 0 0 0 0 0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	13 18 15 25 71 68.9	0 0 0 0 0 0	6 11 10 5 32 31.1	0 0 0 0 0 0	19 29 25 30 103 100 0.858	137 152 123 171 583
Start Time Peak Hour Analys Peak Hour For Sido PM 5:15 PM 5:30 PM 5:45 PM Total Volume % App. Total PCars, PU, Vans	Left sis from (ire Inters 0 0 0 0 0 0 0 0 0 0 0	No Thru D4:00 PN section B 47 45 39 54 185 75.5	rthbour Rgt M - 06:00 Begins a 16 16 11 17 60 24.5	O PM to 05:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 63 61 50 71 245 100 0.863	Left 13 19 12 17 61 26.0 60	42 43 36 53 174 74.0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	55 62 48 70 235 100 0.839	0 0 0 0 0	Thru 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	13 18 15 25 71 68.9	0 0 0 0 0 0 0	6 11 10 5 32 31.1	0 0 0 0 0 0 0	19 29 25 30 103 100 0.858	137 152 123 171 583 0.852 571
Start Time Peak Hour Analys Peak Hour for Ent 5:00 PM 5:15 PM 5:30 PM 5:45 PM Total Volume % App. Total PHF Cars, PU, Vans % Cars, PU, Vans	Left is from 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No Thru D4:00 Pl Section B 47 45 39 54 185 75.5	rthbour Rgt M - 06:00 Begins a 16 16 11 17 60 24.5	0 PM t 05:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 63 61 50 71 245 100 0.863 241 98.4	13 19 12 17 61 26.0	42 43 36 53 174 74.0	0 0 0 0 0 0 0.0	0 0 0 0 0 0 0.0	55 62 48 70 235 100 0.839 228 97.0	0 0 0 0 0 0 0.0	Ea: Thru 0 0 0 0 0 0 0 0 0 0 0.0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	13 18 15 25 71 68.9	0 0 0 0 0 0 0 0.0	6 11 10 5 32 31.1	0 0 0 0 0 0 0 0.0	19 29 25 30 103 100 0.858 102 99.0	137 152 123 171 583 0.852 571 97.9
Start Time Peak Hour Analys Peak Hour For Sido PM 5:15 PM 5:30 PM 5:45 PM Total Volume % App. Total PCars, PU, Vans	Left sis from (ire Inters 0 0 0 0 0 0 0 0 0 0 0	No Thru D4:00 PN section B 47 45 39 54 185 75.5	rthbour Rgt M - 06:00 Begins a 16 16 11 17 60 24.5	O PM to 05:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PM 63 61 50 71 245 100 0.863	Left 13 19 12 17 61 26.0 60	42 43 36 53 174 74.0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	55 62 48 70 235 100 0.839	0 0 0 0 0	Thru 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rgt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0	13 18 15 25 71 68.9	0 0 0 0 0 0 0	6 11 10 5 32 31.1	0 0 0 0 0 0 0	19 29 25 30 103 100 0.858	137 152 123 171 583 0.852 571

APPENDIX C

SIGNAL PLANS



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP)

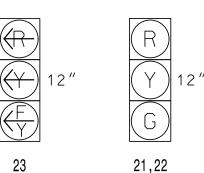
UNSIGNALIZED MOVEMENT ← − → PEDESTRIAN MOVEMENT

TABLE OF	0	PER	ATI	ON
		Р	HAS	E
SIGNAL FACE		ØN+6	Ø 4 + 8	LLGOI
21,22		G	R	Υ
2:3			₩	▼ Y
41,42		R	G	R
6.4		F		-Y
61,62,63		G	R	Υ

81,82 R G R

SIGNAL	FACE	I.D.

All Heads L.E.D.



21,22	
41,42	
61,62,63	
81,82	

MAXTIME DETECTOR INSTALLATION CHART DETECTOR PROGRAMMING													
	DET	ECTOR				F	ROGRA	MM	INC	à			
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	QUEUE	CALL	DELAY DURING GREEN	NEW CARD
2A	6X6	420	EXIST	-	2	<u> </u>	-	Χ	Χ	-	Χ	-	Χ
2B	6X40	0	2-4-2	-	2	3	-	Χ	_	_	Χ	Χ	Χ
4A	6X40	0	2-4-2	-	4	5	-	Χ	-	-	Χ	-	Х
4B	6X15	+5	EXIST	-	4	15	-	Χ	_	_	Χ	_	Х
6A	6X6	420	EXIST	-	6	<u> </u>	-	Χ	Χ	_	Χ	_	Х
6B	6X40	0	2-4-2	-	6	3	_	Χ	-	-	Χ	Χ	Χ
8A	6X40	0	2-4-2	-	8	5	-	Χ	_	_	Χ	-	Х
8B	6X15	+5	EXIST	-	8	15	-	Χ	_	-	Χ	-	Х

PROJECT REFERENCE NO. U-6023 Sig 26.0

2 PHASE FULLY ACTUATED (WAKE FOREST SIGNAL SYSTEM)

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Reposition existing signal heads numbered 21, 22, 61, and 62.
- 4. Set all detector units to presence mode. 5. Locate new cabinet so as not to obstruct sight distance
- of vehicles turning right on red.
- 6. Pavement markings are existing. 7. Maximum times shown in timing chart are for free-run
- operation only. Coordinated signal system timing values shall supersede these values.
- 8. Loop data based on previous plan and/or field observations.

9. Install new cabinet on the existing cabinet foundation.

NC 98 (Wait Avenue) _____ ---- NC 98 (Wait Avenue) (Design Speed 55 MPH) 0% Grade LEGEND <u>PROPOSED</u> Traffic Signal Head MAXTIME TIMING CHART Modified Signal Head FEATURE Pedestrian Signal Head 8 With Push Button & Sign Signal Pole with Guy Ped Clear * Signal Pole with Sidewalk Guy 7 Min Green 14 Inductive Loop Detector 2.0 2.0 6.0 6.0 Passage * Controller & Cabinet 20 Junction Box 4.3 Yellow Change 5.4 5.1 5.4 2-in Underground Conduit Right of Way 1.0 1.6 Red Clear Directional Arrow Added Initial * 2.5 2.5 Signal Ahead Sign (W3-3) Time Before Reduction 45 Time To Reduce *

Dual Entry lower than 4 seconds.

3.4

MIN RECALL

Χ

3.4

MIN RECALL

Minimum Gap

Advance Walk

Vehicle Recall

Non Lock Detector

Signal Upgrade Kimley » Horn

1"=40'

PLANS PREPARED IN THE OFFICE OF:

421 Fayetteville Street, Suite 600

NC License #F-0102

Raleigh, NC 27601

(919) 677-2000

NC 98 (Wait Avenue)

SR 1945 (Averette Road) Wake County

Wake Forest REVIEWED BY: CF Davis PLAN DATE: December 2022 750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: MC Burke REVIEWED BY: SL Phillips INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<u>EXISTING</u>

3/2/2023 DATE 05-1935 SIG. INVENTORY NO.

APPENDIX D

CAPACITY ANALYSIS CALCULATIONS WAIT AVENUE

&

AVERETTE ROAD

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	f		ሻ	f _a			4			ની	7
Traffic Volume (vph)	46	460	63	54	800	9	67	64	59	32	123	112
Future Volume (vph)	46	460	63	54	800	9	67	64	59	32	123	112
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		0	175		0	0		0	0		350
Storage Lanes	1		0	1		0	0		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.982			0.998			0.958				0.850
Flt Protected	0.950			0.950				0.983			0.990	
Satd. Flow (prot)	1770	1829	0	1787	1878	0	0	1728	0	0	1835	1575
Flt Permitted	0.140			0.356				0.818			0.910	
Satd. Flow (perm)	261	1829	0	670	1878	0	0	1438	0	0	1687	1575
Right Turn on Red			No			No	•		No	•		No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		1904			2587			518			1533	
Travel Time (s)		23.6			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	51	511	70	60	889	10	74	71	66	36	137	124
Shared Lane Traffic (%)	<u> </u>	011										
Lane Group Flow (vph)	51	581	0	60	899	0	0	211	0	0	173	124
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	Perm
Protected Phases		2		. •	6			4			8	
Permitted Phases	2	_		6			4			8		8
Detector Phase	2	2		6	6		4	4		8	8	8
Switch Phase	_	_										
Minimum Initial (s)	14.0	14.0		14.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	21.0	21.0		21.0	21.0		14.0	14.0		13.0	13.0	13.0
Total Split (s)	90.0	90.0		90.0	90.0		20.0	20.0		20.0	20.0	20.0
Total Split (%)	81.8%	81.8%		81.8%	81.8%		18.2%	18.2%		18.2%	18.2%	18.2%
Maximum Green (s)	83.6	83.6		83.6	83.6		13.9	13.9		14.1	14.1	14.1
Yellow Time (s)	5.4	5.4		5.4	5.4		5.1	5.1		4.3	4.3	4.3
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.6	1.6	1.6
Lost Time Adjust (s)	-1.4	-1.4		-1.4	-1.4			-1.1		1.0	-0.9	-0.9
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	5.0
Lead/Lag	0.0	0.0		0.0	0.0			0.0			0.0	0.0
Lead-Lag Optimize?												
Vehicle Extension (s)	6.0	6.0		6.0	6.0		2.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.4	3.4		3.4	3.4		0.2	0.2		0.2	0.2	0.2
Time Before Reduce (s)	15.0	15.0		15.0	15.0		0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	45.0	45.0		45.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	Min	Min		Min	Min		None	None		None	None	None
Act Effct Green (s)	35.1	35.1		35.1	35.1		140110	15.3		140110	15.3	15.3
Actuated g/C Ratio	0.58	0.58		0.58	0.58			0.25			0.25	0.25
v/c Ratio	0.34	0.55		0.36	0.83			0.23			0.23	0.23
Control Delay	13.0	9.7		6.3	17.5			31.3			25.3	24.3
•	0.0	0.0		0.0	0.0			0.0			0.0	
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0	0.0

	•	→	•	•	←	*	4	†	~	-	ļ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay	13.0	9.7		6.3	17.5			31.3			25.3	24.3
LOS	В	Α		Α	В			С			С	С
Approach Delay		9.9			16.8			31.3			24.9	
Approach LOS		Α			В			С			С	
Queue Length 50th (ft)	8	112		9	228			65			50	35
Queue Length 95th (ft)	29	175		22	364			#195			133	100
Internal Link Dist (ft)		1824			2507			438			1453	
Turn Bay Length (ft)	200			175								350
Base Capacity (vph)	261	1829		670	1878			363			426	398
Starvation Cap Reductn	0	0		0	0			0			0	0
Spillback Cap Reductn	0	0		0	0			0			0	0
Storage Cap Reductn	0	0		0	0			0			0	0
Reduced v/c Ratio	0.20	0.32		0.09	0.48			0.58			0.41	0.31

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 60.6

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

Intersection Capacity Utilization 76.3%

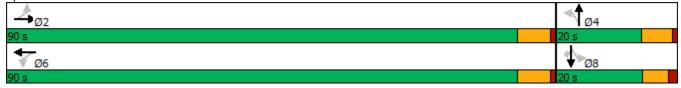
Maximum v/c Ratio: 0.83 Intersection Signal Delay: 17.3

Intersection LOS: B
ICU Level of Service D

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	₽		7	f _a			4			ની	7
Traffic Volume (vph)	99	668	112	41	540	26	68	93	59	13	83	77
Future Volume (vph)	99	668	112	41	540	26	68	93	59	13	83	77
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		0	175		0	0		0	0		350
Storage Lanes	1		0	1		0	0		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.979			0.993			0.964				0.850
Flt Protected	0.950			0.950				0.985			0.993	
Satd. Flow (prot)	1770	1824	0	1787	1868	0	0	1742	0	0	1840	1575
Flt Permitted	0.322			0.162		-	•	0.859	-	•	0.944	, , ,
Satd. Flow (perm)	600	1824	0	305	1868	0	0	1519	0	0	1750	1575
Right Turn on Red	000	1021	No	000	1000	No	•	1010	No	•	1100	No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		1904			2587			518			1533	
Travel Time (s)		23.6			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	110	742	124	46	600	29	76	103	66	14	92	86
Shared Lane Traffic (%)	110	772	127	70	000	20	70	100	00	1-7	32	00
Lane Group Flow (vph)	110	866	0	46	629	0	0	245	0	0	106	86
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	Perm
Protected Phases	1 01111	2		1 OIIII	6		1 01111	4		1 01111	8	1 01111
Permitted Phases	2			6			4			8		8
Detector Phase	2	2		6	6		4	4		8	8	8
Switch Phase								7		- U		J
Minimum Initial (s)	14.0	14.0		14.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	21.0	21.0		21.0	21.0		14.0	14.0		13.0	13.0	13.0
Total Split (s)	90.0	90.0		90.0	90.0		20.0	20.0		20.0	20.0	20.0
Total Split (%)	81.8%	81.8%		81.8%	81.8%		18.2%	18.2%		18.2%	18.2%	18.2%
Maximum Green (s)	83.6	83.6		83.6	83.6		13.9	13.9		14.1	14.1	14.1
Yellow Time (s)	5.4	5.4		5.4	5.4		5.1	5.1		4.3	4.3	4.3
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.6	1.6	1.6
Lost Time Adjust (s)	-1.4	-1.4		-1.4	-1.4		1.0	-1.1		1.0	-0.9	-0.9
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	5.0
Lead/Lag	5.0	5.0		5.0	5.0			5.0			5.0	5.0
Lead-Lag Optimize?												
Vehicle Extension (s)	6.0	6.0		6.0	6.0		2.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.4	3.4		3.4	3.4		0.2	0.2		0.2	0.2	0.2
Time Before Reduce (s)	15.0	15.0		15.0	15.0		0.2	0.2		0.2	0.2	0.2
Time To Reduce (s)	45.0	45.0		45.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	Min	Min		Min	Min		None	None		None	None	
Act Effct Green (s)	35.1	35.1		35.1	35.1		NOHE	15.3		NOHE	15.3	None 15.3
. ,	0.58	0.58		0.58	0.58			0.25			0.25	0.25
Actuated g/C Ratio												
v/c Ratio	0.32	0.82		0.26	0.58			0.64			0.24	0.22
Control Delay	8.7	17.3		9.9	10.1			33.3			23.3	23.3
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0	0.0

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
			EDR			WDK	INDL		INDIX	ODL		
Total Delay	8.7	17.3		9.9	10.1			33.3			23.3	23.3
LOS	Α	В		Α	В			С			С	С
Approach Delay		16.3			10.1			33.3			23.3	
Approach LOS		В			В			С			С	
Queue Length 50th (ft)	18	217		7	125			78			30	24
Queue Length 95th (ft)	41	349		23	194			#231			86	74
Internal Link Dist (ft)		1824			2507			438			1453	
Turn Bay Length (ft)	200			175								350
Base Capacity (vph)	600	1824		305	1868			383			441	398
Starvation Cap Reductn	0	0		0	0			0			0	0
Spillback Cap Reductn	0	0		0	0			0			0	0
Storage Cap Reductn	0	0		0	0			0			0	0
Reduced v/c Ratio	0.18	0.47		0.15	0.34			0.64			0.24	0.22

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 60.7

Natural Cycle: 55

Control Type: Actuated-Uncoordinated

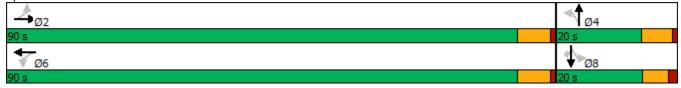
Maximum v/c Ratio: 0.82 Intersection Signal Delay: 16.9 Intersection Capacity Utilization 85.0%

Intersection LOS: B
ICU Level of Service E

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		Ť	f)			4			ર્ન	7
Traffic Volume (vph)	53	533	73	63	928	10	78	74	68	37	143	130
Future Volume (vph)	53	533	73	63	928	10	78	74	68	37	143	130
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		0	175		0	0		0	0		350
Storage Lanes	1		0	1		0	0		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.982			0.998			0.958				0.850
Flt Protected	0.950			0.950				0.983			0.990	
Satd. Flow (prot)	1770	1829	0	1787	1878	0	0	1728	0	0	1835	1575
Flt Permitted	0.950			0.950				0.625			0.851	
Satd. Flow (perm)	1770	1829	0	1787	1878	0	0	1099	0	0	1577	1575
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		1904			2587			518			1533	
Travel Time (s)		23.6			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	59	592	81	70	1031	11	87	82	76	41	159	144
Shared Lane Traffic (%)												
Lane Group Flow (vph)	59	673	0	70	1042	0	0	245	0	0	200	144
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			4			8	
Permitted Phases							4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase												
Minimum Initial (s)	7.0	14.0		7.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	14.0	21.0		14.0	21.0		14.0	14.0		14.0	14.0	14.0
Total Split (s)	14.0	67.0		14.0	67.0		29.0	29.0		29.0	29.0	29.0
Total Split (%)	12.7%	60.9%		12.7%	60.9%		26.4%	26.4%		26.4%	26.4%	26.4%
Maximum Green (s)	7.0	60.0		7.0	60.0		22.0	22.0		22.0	22.0	22.0
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0			-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag			0.0			0.0	0.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	3.0	6.0		3.0	6.0		2.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.0	3.4		3.0	3.4		0.2	0.2		0.2	0.2	0.2
Time Before Reduce (s)	0.0	15.0		0.0	15.0		0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	45.0		0.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	None	Min		None	Min		None	None		None	None	None
Act Effct Green (s)	9.1	60.4		9.1	60.4		INOTIC	24.2		NOTIC	24.2	24.2
Actuated g/C Ratio	0.09	0.57		0.09	0.57			0.23			0.23	0.23
v/c Ratio	0.09	0.57		0.09	0.97			0.23			0.25	0.40
Control Delay	56.0	19.5		58.4	44.5			93.7			44.3	40.3
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0	
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0	0.0

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
			EDR			WDK	INDL		NDI	ODL		
Total Delay	56.0	19.5		58.4	44.5			93.7			44.3	40.3
LOS	E	В		Ε	D			F			D	D
Approach Delay		22.4			45.4			93.7			42.6	
Approach LOS		С			D			F			D	
Queue Length 50th (ft)	40	311		48	683			~184			127	88
Queue Length 95th (ft)	84	439		96	#1004			#343			206	150
Internal Link Dist (ft)		1824			2507			438			1453	
Turn Bay Length (ft)	200			175								350
Base Capacity (vph)	152	1085		154	1114			252			362	361
Starvation Cap Reductn	0	0		0	0			0			0	0
Spillback Cap Reductn	0	0		0	0			0			0	0
Storage Cap Reductn	0	0		0	0			0			0	0
Reduced v/c Ratio	0.39	0.62		0.45	0.94			0.97			0.55	0.40

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 105.4

Natural Cycle: 110

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.97
Intersection Signal Delay: 43.0

Intersection Signal Delay: 43.0 Intersection LOS: D
Intersection Capacity Utilization 86.8% ICU Level of Service E

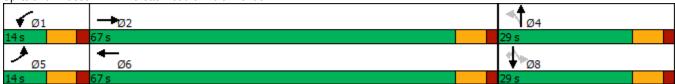
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	f)		Ť	f)			4			ર્ન	7
Traffic Volume (vph)	115	775	130	48	626	30	79	108	68	15	96	89
Future Volume (vph)	115	775	130	48	626	30	79	108	68	15	96	89
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		0	175		0	0		0	0		350
Storage Lanes	1		0	1		0	0		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.979			0.993			0.964				0.850
Flt Protected	0.950			0.950				0.985			0.993	
Satd. Flow (prot)	1770	1824	0	1787	1868	0	0	1742	0	0	1840	1575
Flt Permitted	0.950			0.950				0.822			0.902	
Satd. Flow (perm)	1770	1824	0	1787	1868	0	0	1454	0	0	1672	1575
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		1904			2587			518			1533	
Travel Time (s)		23.6			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	128	861	144	53	696	33	88	120	76	17	107	99
Shared Lane Traffic (%)												
Lane Group Flow (vph)	128	1005	0	53	729	0	0	284	0	0	124	99
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			4			8	
Permitted Phases							4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase												
Minimum Initial (s)	7.0	14.0		7.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	14.0	21.0		14.0	21.0		14.0	14.0		13.6	13.6	13.6
Total Split (s)	14.0	54.0		14.0	54.0		22.0	22.0		22.0	22.0	22.0
Total Split (%)	15.6%	60.0%		15.6%	60.0%		24.4%	24.4%		24.4%	24.4%	24.4%
Maximum Green (s)	7.0	47.0		7.0	47.0		15.0	15.0		15.4	15.4	15.4
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0		1.6	1.6	1.6
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0			-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0			4.6	4.6
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	3.0	6.0		3.0	6.0		2.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.0	3.4		3.0	3.4		0.2	0.2		0.2	0.2	0.2
Time Before Reduce (s)	0.0	15.0		0.0	15.0		0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	45.0		0.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	None	Min		None	Min		None	None		None	None	None
Act Effct Green (s)	9.1	49.3		9.1	43.1			17.1			17.5	17.5
Actuated g/C Ratio	0.11	0.58		0.11	0.51			0.20			0.21	0.21
v/c Ratio	0.67	0.94		0.28	0.76			0.97			0.36	0.30
Control Delay	57.3	36.6		41.1	22.6			81.8			33.9	33.3
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0	0.0
Quou Dolay	0.0	0.0		0.0	0.0			0.0			0.0	0.0

2031 No-Build Timing Plan: PM Peak Hour

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay	57.3	36.6		41.1	22.6			81.8			33.9	33.3
LOS	Е	D		D	С			F			С	С
Approach Delay		39.0			23.8			81.8			33.6	
Approach LOS		D			С			F			С	
Queue Length 50th (ft)	72	~559		28	291			~175			62	49
Queue Length 95th (ft)	#158	#843		65	431			#330			115	96
Internal Link Dist (ft)		1824			2507			438			1453	
Turn Bay Length (ft)	200			175								350
Base Capacity (vph)	190	1066		191	1092			294			347	326
Starvation Cap Reductn	0	0		0	0			0			0	0
Spillback Cap Reductn	0	0		0	0			0			0	0
Storage Cap Reductn	0	0		0	0			0			0	0
Reduced v/c Ratio	0.67	0.94		0.28	0.67			0.97			0.36	0.30

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 84.4

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.97

Intersection Signal Delay: 38.6

Intersection LOS: D
ICU Level of Service E

Intersection Capacity Utilization 87.9%

Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	∱		*	1>			4			ર્ન	7
Traffic Volume (vph)	58	581	149	106	907	10	166	79	71	34	165	127
Future Volume (vph)	58	581	149	106	907	10	166	79	71	34	165	127
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		0	175		0	0		0	0		350
Storage Lanes	1		0	1		0	0		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.969			0.998			0.970				0.850
Flt Protected	0.950			0.950				0.974			0.991	
Satd. Flow (prot)	1770	1805	0	1787	1878	0	0	1733	0	0	1837	1575
Flt Permitted	0.950			0.950				0.581			0.889	
Satd. Flow (perm)	1770	1805	0	1787	1878	0	0	1034	0	0	1648	1575
Right Turn on Red			Yes			Yes	•		Yes	_		Yes
Satd. Flow (RTOR)		14			1			11				141
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		476			2587			518			1533	
Travel Time (s)		5.9			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	64	646	166	118	1008	11	184	88	79	38	183	141
Shared Lane Traffic (%)	<u> </u>	0.0	100		1000						.00	
Lane Group Flow (vph)	64	812	0	118	1019	0	0	351	0	0	221	141
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			4			8	
Permitted Phases		_			•		4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase		_		•				•				
Minimum Initial (s)	7.0	14.0		7.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	14.0	21.0		14.0	21.0		14.0	14.0		14.0	14.0	14.0
Total Split (s)	14.0	77.0		15.0	78.0		48.0	48.0		48.0	48.0	48.0
Total Split (%)	10.0%	55.0%		10.7%	55.7%		34.3%	34.3%		34.3%	34.3%	34.3%
Maximum Green (s)	7.0	70.0		8.0	71.0		41.0	41.0		41.0	41.0	41.0
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0		2.0	-2.0		2.0	-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag			0.0			0.0	0.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	3.0	6.0		3.0	6.0		2.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.0	3.4		3.0	3.4		0.2	0.2		0.2	0.2	0.2
Time Before Reduce (s)	0.0	15.0		0.0	15.0		0.2	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	45.0		0.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	None	Min		None	Min		None	None		None	None	None
Act Effct Green (s)	9.0	69.1		10.0	73.1		INOITE	43.1		NOHE	43.1	43.1
Actuated g/C Ratio	0.07	0.50		0.07	0.53			0.31			0.31	0.31
v/c Ratio	0.07	0.89		0.07	1.02			1.06			0.31	0.31
				120.8				109.4			41.3	
Control Delay	81.8	42.9			65.6							6.4
Queue Delay	0.0	0.0		0.0	0.0			0.0			0.0	0.0

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay	81.8	42.9		120.8	65.6			109.4			41.3	6.4
LOS	F	D		F	Е			F			D	Α
Approach Delay		45.8			71.3			109.4			27.7	
Approach LOS		D			Е			F			С	
Queue Length 50th (ft)	58	624		109	~1000			~349			161	0
Queue Length 95th (ft)	#115	#861		#235	#1265			#551			242	50
Internal Link Dist (ft)		396			2507			438			1453	
Turn Bay Length (ft)	200			175								350
Base Capacity (vph)	116	955		130	1001			332			517	591
Starvation Cap Reductn	0	0		0	0			0			0	0
Spillback Cap Reductn	0	0		0	0			0			0	0
Storage Cap Reductn	0	0		0	0			0			0	0
Reduced v/c Ratio	0.55	0.85		0.91	1.02			1.06			0.43	0.24
Reduced V/C Railo	0.55	0.05		0.51	1.02			1.00			0.43	0.24

Area Type: Other

Cycle Length: 140

Actuated Cycle Length: 137.2

Natural Cycle: 140

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.06 Intersection Signal Delay: 62.2 Intersection Capacity Utilization 99.1%

Intersection LOS: E ICU Level of Service F

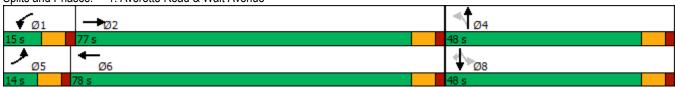
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	1>		ች	1>			4			ર્ન	7
Traffic Volume (vph)	128	816	236	103	631	30	246	121	70	13	119	92
Future Volume (vph)	128	816	236	103	631	30	246	121	70	13	119	92
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		0	175		0	0		0	0		350
Storage Lanes	1		0	1		0	0		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.966			0.993			0.978				0.850
Flt Protected	0.950			0.950				0.973			0.995	
Satd. Flow (prot)	1770	1799	0	1787	1868	0	0	1746	0	0	1844	1575
Flt Permitted	0.950			0.950				0.681			0.944	
Satd. Flow (perm)	1770	1799	0	1787	1868	0	0	1222	0	0	1750	1575
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		15			2			7				102
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		476			2587			518			1533	
Travel Time (s)		5.9			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	142	907	262	114	701	33	273	134	78	14	132	102
Shared Lane Traffic (%)												
Lane Group Flow (vph)	142	1169	0	114	734	0	0	485	0	0	146	102
Turn Type	Prot	NA		Prot	NA		Perm	NA		Perm	NA	Perm
Protected Phases	5	2		1	6			4			8	
Permitted Phases							4			8		8
Detector Phase	5	2		1	6		4	4		8	8	8
Switch Phase		_						-				
Minimum Initial (s)	7.0	14.0		7.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	14.0	21.0		14.0	21.0		14.0	14.0		14.0	14.0	14.0
Total Split (s)	21.0	84.0		14.0	77.0		52.0	52.0		52.0	52.0	52.0
Total Split (%)	14.0%	56.0%		9.3%	51.3%		34.7%	34.7%		34.7%	34.7%	34.7%
Maximum Green (s)	14.0	77.0		7.0	70.0		45.0	45.0		45.0	45.0	45.0
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0		2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0		-2.0	-2.0		,	-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0		5.0	5.0			5.0			5.0	5.0
Lead/Lag	Lead	Lag		Lead	Lag			0.0			0.0	0.0
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Vehicle Extension (s)	3.0	6.0		3.0	6.0		2.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.0	3.4		3.0	3.4		0.2	0.2		0.2	0.2	0.2
Time Before Reduce (s)	0.0	15.0		0.0	15.0		0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	45.0		0.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	None	Min		None	Min		None	None		None	None	None
Act Effct Green (s)	15.5	79.0		9.0	72.5		140110	47.0		None	47.0	47.0
Actuated g/C Ratio	0.10	0.53		0.06	0.48			0.31			0.31	0.31
v/c Ratio	0.10	1.23		1.07	0.40			1.25			0.31	0.31
Control Delay	92.6	143.1		169.6	41.8			175.3			40.2	7.1
•	0.0			0.0				0.0			0.0	0.0
Queue Delay	0.0	0.0		0.0	0.0			U.U			0.0	0.0

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay	92.6	143.1		169.6	41.8			175.3			40.2	7.1
LOS	F	F		F	D			F			D	Α
Approach Delay		137.6			59.0			175.3			26.6	
Approach LOS		F			Е			F			С	
Queue Length 50th (ft)	137	~1402		~123	603			~588			107	0
Queue Length 95th (ft)	#243	#1673		#256	790			#816			169	44
Internal Link Dist (ft)		396			2507			438			1453	
Turn Bay Length (ft)	200			175								350
Base Capacity (vph)	188	954		107	903			387			548	563
Starvation Cap Reductn	0	0		0	0			0			0	0
Spillback Cap Reductn	0	0		0	0			0			0	0
Storage Cap Reductn	0	0		0	0			0			0	0
Reduced v/c Ratio	0.76	1.23		1.07	0.81			1.25			0.27	0.18

Area Type: Other

Cycle Length: 150 Actuated Cycle Length: 150 Natural Cycle: 150

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.25 Intersection Signal Delay: 111.3

Intersection LOS: F Intersection Capacity Utilization 106.5% ICU Level of Service G

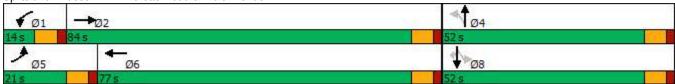
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	*	7	ሻ	ĵ»		*	₽			ની	7
Traffic Volume (vph)	58	581	149	106	907	10	166	79	71	34	165	127
Future Volume (vph)	58	581	149	106	907	10	166	79	71	34	165	127
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%			-2%			3%			1%	
Storage Length (ft)	200		100	175		0	300		0	0		350
Storage Lanes	1		1	1		0	1		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.998			0.929				0.850
Flt Protected	0.950			0.950			0.950				0.991	
Satd. Flow (prot)	1770	1863	1583	1787	1878	0	1743	1705	0	0	1837	1575
FIt Permitted	0.950			0.950			0.950				0.903	
Satd. Flow (perm)	1770	1863	1583	1787	1878	0	1743	1705	0	0	1674	1575
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			140		1			32				141
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		476			2587			518			1533	
Travel Time (s)		5.9			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	64	646	166	118	1008	11	184	88	79	38	183	141
Shared Lane Traffic (%)												
Lane Group Flow (vph)	64	646	166	118	1019	0	184	167	0	0	221	141
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA		Perm	NA	Perm
Protected Phases	5	2		1	6		7	4			8	
Permitted Phases			2							8		8
Detector Phase	5	2	2	1	6		7	4		8	8	8
Switch Phase												
Minimum Initial (s)	7.0	14.0	14.0	7.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	14.0	21.0	21.0	14.0	21.0		14.0	14.0		14.0	14.0	14.0
Total Split (s)	14.0	74.0	74.0	21.0	81.0		22.0	45.0		23.0	23.0	23.0
Total Split (%)	10.0%	52.9%	52.9%	15.0%	57.9%		15.7%	32.1%		16.4%	16.4%	16.4%
Maximum Green (s)	7.0	67.0	67.0	14.0	74.0		15.0	38.0		16.0	16.0	16.0
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0	0.0	-2.0	-2.0		0.0	-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0	7.0	5.0	5.0		7.0	5.0			5.0	5.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	6.0	6.0	3.0	6.0		3.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.0	3.4	3.4	3.0	3.4		3.0	0.2		0.2	0.2	0.2
Time Before Reduce (s)	0.0	15.0	15.0	0.0	15.0		0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	45.0	45.0	0.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	None	Min	Min	None	Min		None	None		None	None	None
Act Effct Green (s)	9.0	67.3	65.3	14.5	75.9		15.0	40.1			18.0	18.0
Actuated g/C Ratio	0.07	0.49	0.48	0.11	0.55		0.11	0.29			0.13	0.13
v/c Ratio	0.55	0.71	0.20	0.62	0.98		0.96	0.32			1.00	0.43
Control Delay	81.7	32.4	5.3	74.0	54.1		117.5	33.1			120.7	12.7
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0			0.0	0.0

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay	81.7	32.4	5.3	74.0	54.1		117.5	33.1			120.7	12.7
LOS	F	С	Α	Е	D		F	С			F	В
Approach Delay		30.9			56.2			77.3			78.6	
Approach LOS		С			Е			Е			Е	
Queue Length 50th (ft)	58	447	12	104	897		170	96			~214	0
Queue Length 95th (ft)	#115	595	53	172	#1226		#328	164			#384	64
Internal Link Dist (ft)		396			2507			438			1453	
Turn Bay Length (ft)	200		100	175			300					350
Base Capacity (vph)	116	945	850	209	1044		191	521			220	329
Starvation Cap Reductn	0	0	0	0	0		0	0			0	0
Spillback Cap Reductn	0	0	0	0	0		0	0			0	0
Storage Cap Reductn	0	0	0	0	0		0	0			0	0
Reduced v/c Ratio	0.55	0.68	0.20	0.56	0.98		0.96	0.32			1.00	0.43

Area Type: Other

Cycle Length: 140
Actuated Cycle Length: 137
Natural Cycle: 140

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.00 Intersection Signal Delay: 53.8 Intersection Capacity Utilization 90.6%

Intersection LOS: D
ICU Level of Service E

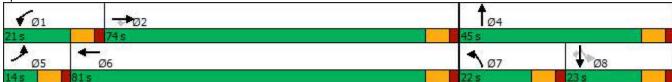
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	^	7	ሻ	f)		*	1•			ની	7
Traffic Volume (vph)	128	816	236	103	631	30	246	121	70	13	119	92
Future Volume (vph)	128	816	236	103	631	30	246	121	70	13	119	92
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Grade (%)		0%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-2%			3%			1%	
Storage Length (ft)	200		100	175		0	300		0	0		350
Storage Lanes	1		1	1		0	1		0	0		1
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.993			0.945				0.850
Flt Protected	0.950			0.950			0.950				0.995	
Satd. Flow (prot)	1770	1863	1583	1787	1868	0	1743	1734	0	0	1844	1575
Flt Permitted	0.950			0.950			0.950				0.937	
Satd. Flow (perm)	1770	1863	1583	1787	1868	0	1743	1734	0	0	1737	1575
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			164		3			25				164
Link Speed (mph)		55			55			45			55	
Link Distance (ft)		476			2587			518			1533	
Travel Time (s)		5.9			32.1			7.8			19.0	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	142	907	262	114	701	33	273	134	78	14	132	102
Shared Lane Traffic (%)												
Lane Group Flow (vph)	142	907	262	114	734	0	273	212	0	0	146	102
Turn Type	Prot	NA	Perm	Prot	NA		Prot	NA		Perm	NA	Perm
Protected Phases	5	2		1	6		7	4			8	
Permitted Phases			2							8		8
Detector Phase	5	2	2	1	6		7	4		8	8	8
Switch Phase												
Minimum Initial (s)	7.0	14.0	14.0	7.0	14.0		7.0	7.0		7.0	7.0	7.0
Minimum Split (s)	14.0	21.0	21.0	14.0	21.0		14.0	14.0		14.0	14.0	14.0
Total Split (s)	18.0	65.0	65.0	14.0	61.0		25.0	41.0		16.0	16.0	16.0
Total Split (%)	15.0%	54.2%	54.2%	11.7%	50.8%		20.8%	34.2%		13.3%	13.3%	13.3%
Maximum Green (s)	11.0	58.0	58.0	7.0	54.0		18.0	34.0		9.0	9.0	9.0
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	2.0
Lost Time Adjust (s)	-2.0	-2.0	0.0	-2.0	-2.0		0.0	-2.0			-2.0	-2.0
Total Lost Time (s)	5.0	5.0	7.0	5.0	5.0		7.0	5.0			5.0	5.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag		Lead			Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes			Yes	Yes	Yes
Vehicle Extension (s)	3.0	6.0	6.0	3.0	6.0		3.0	2.0		2.0	2.0	2.0
Minimum Gap (s)	3.0	3.4	3.4	3.0	3.4		3.0	0.2		0.2	0.2	0.2
Time Before Reduce (s)	0.0	15.0	15.0	0.0	15.0		0.0	0.0		0.0	0.0	0.0
Time To Reduce (s)	0.0	45.0	45.0	0.0	45.0		0.0	0.0		0.0	0.0	0.0
Recall Mode	None	Min	Min	None	Min		None	None		None	None	None
Act Effct Green (s)	12.8	59.3	57.3	9.0	55.5		18.0	36.0			11.0	11.0
Actuated g/C Ratio	0.11	0.50	0.48	0.08	0.47		0.15	0.30			0.09	0.09
v/c Ratio	0.75	0.98	0.31	0.84	0.84		1.04	0.39			0.91	0.35
Control Delay	76.5	55.2	7.9	100.1	38.6		115.8	31.7			105.8	4.1
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0			0.0	0.0

1: Averette Road & Wait Avenue

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Delay	76.5	55.2	7.9	100.1	38.6		115.8	31.7			105.8	4.1
LOS	Е	E	Α	F	D		F	С			F	Α
Approach Delay		48.0			46.8			79.0			64.0	
Approach LOS		D			D			Е			Е	
Queue Length 50th (ft)	108	664	41	89	485		~229	114			114	0
Queue Length 95th (ft)	#207	#958	94	#197	#679		#402	186			#242	7
Internal Link Dist (ft)		396			2507			438			1453	
Turn Bay Length (ft)	200		100	175			300					350
Base Capacity (vph)	192	936	853	135	878		263	540			160	294
Starvation Cap Reductn	0	0	0	0	0		0	0			0	0
Spillback Cap Reductn	0	0	0	0	0		0	0			0	0
Storage Cap Reductn	0	0	0	0	0		0	0			0	0
Reduced v/c Ratio	0.74	0.97	0.31	0.84	0.84		1.04	0.39			0.91	0.35

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 119.3

Natural Cycle: 100

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.04 Intersection Signal Delay: 54.2 Intersection Capacity Utilization 81.6%

Intersection LOS: D
ICU Level of Service D

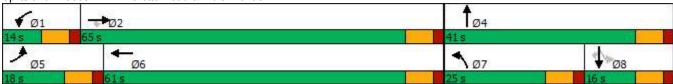
Analysis Period (min) 15

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



APPENDIX E

CAPACITY ANALYSIS CALCULATIONS WAIT AVENUE

&

CARRIE MAY LANE/ACCESS B

Intersection						
Int Delay, s/veh	0.2					
		ERT	MOT	MDD	ODI	ODD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	^}	,	Y	4
Traffic Vol, veh/h	4	568	977	4	4	4
Future Vol, veh/h	4	568	977	4	4	4
Conflicting Peds, #/hr	0	_ 0	_ 0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	631	1086	4	4	4
Major/Minor M	laior1		/laior2		Minor2	
	1ajor1		Major2			4000
	1090	0	-		1727	1088
Stage 1	-	-	-	-	1088	-
Stage 2	-	-	-	-	639	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	640	-	-	-	97	262
Stage 1	-	-	-	-	323	-
Stage 2	-	-	-	-	526	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	640	-	-	-	96	262
Mov Cap-2 Maneuver	-	-	-	-	96	-
Stage 1	-	-	-	-	320	-
Stage 2	-	-	_	-	526	-
- 						
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		32.2	
HCM LOS					D	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR :	SBI n1
Capacity (veh/h)		640	LDI	1101	VVDIC	141
HCM Lane V/C Ratio		0.007	-	-	-	0.063
HCM Control Delay (s)		10.7	0			32.2
				-	-	
HCM Lane LOS HCM 95th %tile Q(veh)		B 0	Α	-	-	D 0.2
TUND YATIO (NAM)			_	_	_	U.Z

Intersection						
Int Delay, s/veh	0.2					
		FDT	WDT	WDD	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	4	4	\$	4	Y	4
Traffic Vol, veh/h	4	875	684	4	4	4
Future Vol, veh/h	4	875	684	4	4	4
Conflicting Peds, #/hr	_ 0	_ 0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	972	760	4	4	4
Major/Minor N	/lajor1	N	Major2		Minor2	
						760
Conflicting Flow All	764	0	-	0	1742	762
Stage 1	-	-	-	-	762	-
Stage 2	-	-	-	-	980	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
	2.218	-	-	-		3.318
Pot Cap-1 Maneuver	849	-	-	-	95	405
Stage 1	-	-	-	-	461	-
Stage 2	-	-	-	-	364	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	849	-	-	-	94	405
Mov Cap-2 Maneuver	_	-	_	_	94	-
Stage 1	_	_	_	_	456	_
Stage 2	_	_	_	_	364	_
Olago 2					001	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		30	
HCM LOS					D	
Minor Lang/Major Muset		EBL	EBT	WBT	WBR :	CDI ~1
Minor Lane/Major Mvmt						
Capacity (veh/h)		849	-	-	-	
HCM Lane V/C Ratio		0.005	-	-		0.058
HCM Control Delay (s)		9.3	0	-	-	30
HCM Lane LOS HCM 95th %tile Q(veh)		A 0	Α	-	-	D
		Λ	_	_	_	0.2
1('N/L()5th V/.tila ()/vah						

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	î,		¥	
Traffic Vol, veh/h	4	659	1133	4	4	4
Future Vol, veh/h	4	659	1133	4	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	.# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	4	732	1259	4	4	4
INIVITIL FIOW	4	132	1209	4	4	4
Major/Minor N	Major1	<u> </u>	Major2	<u> </u>	Minor2	
Conflicting Flow All	1263	0	-	0	2001	1261
Stage 1	-	-	-	-	1261	-
Stage 2	-	-	-	-	740	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	_	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	_	-	3.518	3.318
Pot Cap-1 Maneuver	550	_	_	-	66	208
Stage 1	-	_	-	_	267	-
Stage 2	_	_	_	_	472	_
Platoon blocked, %		_	_	_		
Mov Cap-1 Maneuver	550		_	_	65	208
Mov Cap-1 Maneuver	-	_	_	<u> </u>	65	- 200
Stage 1	_			_	264	
Stage 2	_	_	_	_	472	-
Slaye Z	-	-	-	-	412	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		44.9	
HCM LOS					Е	
Min and an a /Marin Ad		EDI	EDT	WOT	WEE	ODL 4
Minor Lane/Major Mvm	ı	EBL	EBT	WBT	WBR	
Capacity (veh/h)		550	-	-	-	99
HCM Lane V/C Ratio		0.008	-	-	-	0.09
HCM Control Delay (s)		11.6	0	-	-	44.9
HCM Lane LOS HCM 95th %tile Q(veh)		В	Α	-	-	E
LICINI ()Eth U/tila ()/vah)		0	_	_	_	0.3

0.2 EBL	EBT				
	EBT				
	וטו	WBT	WBR	SBL	SBR
	4	₩ •	אטול	SBL M	אומט
1	식 1015	793	4	T	4
4	1015	793	4	5	4
	0	193	0	0	0
	Free	Free	Free		
Free				Stop	Stop
-		-		-	None
<u>-</u> и	-	-	-	0	-
je,# -	0	0	-	0	-
-				-	-
					90
					2
4	1128	881	4	6	4
Maior1	N	Maior2	N	Minor2	
					883
					- 003
					-
					6.22
	-				-
	-	-			-
	-	_			
765	-	-			345
-	-	-			-
-	-	-	-	306	-
	-	-	-		
	-	-	-		345
r -	-	-	-		-
-	-	-	-		-
-	-	-	-	306	-
FR		WR		SB	
, U		U			
mt		EBT	WBT	WBR S	
		-	-	-	99
	0.006	-	-	-	0.101
s)	9.7	0	-	-	45.4
	۸	Α			Ε
h)	A 0		-	-	0.3
	90 2 4 Major1 885 - 4.12 - 2.218 765 - 765 - T 765 -	- 0 90 90 2 2 4 1128 Major1 N 885 0 4.12 2.218 - 765 5 765 EB S 0	- 0 0 90 90 90 2 2 2 4 1128 881 Major1	- 0 0 - 90 90 90 90 2 2 2 2 2 4 1128 881 4 Major1 Major2 N 885 0 - 0 4.12 2.218 2.218 EB WB S 0 0 0	- 0 0 - 0 90 90 90 90 90 2 2 2 2 2 2 4 1128 881 4 6 Major1 Major2 Minor2 885 0 - 0 2019 883 1136 4.12 6.42 5.42 5.42 2.218 5.42 2.218 3.518 765 64 404 306 306 306 EB WB SB 5 0 0 45.4 E mt EBL EBT WBT WBR \$ 765

Intersection													
Int Delay, s/veh	100.8												
•		EDT	EDD	WDI	WDT	WDD	NDI	NDT	NDD	CDI	CDT	CDD	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations	1	₹	7	ነ	1454	1	O.F.	4	EG	1	4	1	
raffic Vol, veh/h	4	718	14	19	1151	4	95	4	56	4	4	4	
uture Vol, veh/h	4	718	14	19	1151	4	95	0	56 0	4	4	4	
Conflicting Peds, #/hr	0	0	0	0 Free	0 Free	0	0					0	
ign Control T Channelized	Free	Free	Free			Free	Stop	Stop	Stop	Stop	Stop	Stop	
	-	-	None 50	125	-	None	-	-	None	-	-	None	
torage Length eh in Median Storage	-	0		125	0	-	-	0	-	-	0	-	
en in Median Storage Frade, %	,# -	0	-	-	0	-	- -	0	<u>-</u>	-	0	-	
eak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
eavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
lvmt Flow	4	798	16	21	1279	4	106	4	62	4	4	4	
IVIIIL FIOW	4	130	10	21	12/3	4	100	4	02	4	4	4	
			_										
	Major1			Major2			Minor1			Minor2			
Conflicting Flow All	1283	0	0	814	0	0	2133	2131	798	2170	2145	1281	
Stage 1	-	-	-	-	-	-	806	806	-		1323	-	
Stage 2	-	-	-	-	-	-	1327	1325	-	847	822	-	
ritical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
ritical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
ollow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018		3.518	4.018	3.318	
ot Cap-1 Maneuver	541	-	-	813	-	-	~ 36	50	386	34	49	202	
Stage 1	-	-	-	-	-	-	376	395	-	192	226	-	
Stage 2	-	-	-	-	-	-	191	225	-	357	388	-	
latoon blocked, %	T 4 4	-	-	040	-	-	20	40	200	00	47	000	
lov Cap-1 Maneuver	541	-	-	813	-	-	~ 32 ~ 32	48 48	386	26 26	47	202	
lov Cap-2 Maneuver	-	-	-	-	-	-	371	389	-	189	47 220	-	
Stage 1 Stage 2	-	-	-	-		-	178	219	-	292	383	-	
Stage 2	-	-	-	-	-	-	170	219	-	232	303	-	
				14.0			NE			0.5			
pproach	EB			WB			NB			SB			
ICM Control Delay, s	0.1			0.2		\$	1340.6			112.5			
ICM LOS							F			F			
linor Lane/Major Mvm	t I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)		48	541	-	-	813	-	-	46				
CM Lane V/C Ratio				-	-	0.026	-	-	0.29				
CM Control Delay (s)	\$ 1	1340.6	11.7	0	-	9.5	-		112.5				
CM Lane LOS		F	В	Α	-	Α	-	-	F				
HCM 95th %tile Q(veh)		18.9	0	-	-	0.1	-	-	1				
lotes													
: Volume exceeds cap	acity	\$: De	lay exc	eeds 30	00s -	+: Com	outation	Not De	efined	*: All	major v	olume ir	n platoon

ntersection													
nt Delay, s/veh	176												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations		4	7		1•			4			44		
raffic Vol, veh/h	4	1108	47	63	841	4	105	4	37	5	4	4	
uture Vol, veh/h	4	1108	47	63	841	4	105	4	37	5	4	4	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	50	125	-	-	-	-	-	-	-	-	
eh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
eak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
leavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
1vmt Flow	4	1231	52	70	934	4	117	4	41	6	4	4	
lajor/Minor Major1 Major2							Minor1			Minor2			
Conflicting Flow All	938	0	0	1283	0	0	2319	2317	1231	2364	2367	936	
Stage 1	-	-	-	-	-	-	1239	1239	-	1076	1076	-	
Stage 2	_	-	_	-	_	-	1080	1078	_	1288	1291	_	
Critical Hdwy	4.12	-	_	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	_	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
ollow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
ot Cap-1 Maneuver	730	-	-	541	-	-	~ 26	38	216	24	35	321	
Stage 1	-	-	-	-	-	-	215	247	-	266	296	-	
Stage 2	-	-	-	-	-	-	264	295	-	201	234	-	
Platoon blocked, %		-	-		-	-							
Nov Cap-1 Maneuver	730	-	-	541	-	-	~ 20	32	216	15	30	321	
Nov Cap-2 Maneuver	-	-	-	-	-	-	~ 20	32	-	15	30	-	
Stage 1	-	-	-	-	-	-	211	242	-	261	258	-	
Stage 2	-	-	-	-	-	-	223	257	-	157	230	-	
pproach	EB			WB			NB			SB			
HCM Control Delay, s	0			0.9		\$ 2	2655.9			241.2			
HCM LOS						•	F			F			
linor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WRR	SBLn1				
Capacity (veh/h)	. 1	26	730			541		-	27				
ICM Lane V/C Ratio			0.006	_	_	0.129	_	_	0.535				
ICM Control Delay (s)	\$ 2	2655.9	10	0	_	12.6	_		241.2				
ICM Lane LOS	Ψ	-000.5 F	A	A	_	12.0 B	_	_	F				
HCM 95th %tile Q(veh))	20.1	0	-	-	0.4	_	_	1.7				
Notes	.,	Φ			١٥.		1.0	NL (D	c .	+ A11			
~: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon													

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	7	ች	f)			4			4	
Traffic Volume (vph)	4	718	14	19	1151	4	95	4	56	4	4	4
Future Volume (vph)	4	718	14	19	1151	4	95	4	56	4	4	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	125	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	0		0	0		0
Storage Lanes	0		1	1		0	0		0	0		0
Taper Length (ft)	100			100			100			100		-
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850					0.951			0.955	
Flt Protected				0.950				0.970			0.984	
Satd. Flow (prot)	0	1863	1583	1770	1863	0	0	1718	0	0	1750	0
FIt Permitted		0.893		0.950				0.805			0.908	
Satd. Flow (perm)	0	1663	1583	1770	1863	0	0	1426	0	0	1615	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			25			25	
Link Distance (ft)		547			720			1076			1193	
Travel Time (s)		6.8			8.9			29.3			32.5	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	4	798	16	21	1279	4	106	4	62	4	4	4
Shared Lane Traffic (%)	-				12.0	•		•		•	•	
Lane Group Flow (vph)	0	802	16	21	1283	0	0	172	0	0	12	0
Turn Type	Perm	NA	Perm	Prot	NA		Perm	NA	•	Perm	NA	-
Protected Phases		4		3	8			2			6	
Permitted Phases	4		4				2			6		
Detector Phase	4	4	4	3	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	20.0	20.0	20.0	14.0	20.0		20.0	20.0		20.0	20.0	
Total Split (s)	56.0	56.0	56.0	14.0	70.0		20.0	20.0		20.0	20.0	
Total Split (%)	62.2%	62.2%	62.2%	15.6%	77.8%		22.2%	22.2%		22.2%	22.2%	
Maximum Green (s)	49.0	49.0	49.0	7.0	63.0		13.0	13.0		13.0	13.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0	-2.0	-2.0	-2.0			-2.0			-2.0	
Total Lost Time (s)		5.0	5.0	5.0	5.0			5.0			5.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		Min	Min		Min	Min	
Act Effct Green (s)		56.8	56.8	9.1	62.2			14.3			14.3	
Actuated g/C Ratio		0.66	0.66	0.11	0.72			0.17			0.17	
v/c Ratio		0.74	0.02	0.11	0.96			0.73			0.05	
Control Delay		17.6	7.6	38.6	29.4			55.1			32.2	
Queue Delay		0.0	0.0	0.0	0.0			0.0			0.0	
Total Delay		17.6	7.6	38.6	29.4			55.1			32.2	
LOS		В	Α	D	C			E			C	
Approach Delay		17.4			29.5			55.1			32.2	
Approach LOS		В			С			E			С	

	ၨ	-	•	•	←	•	1	†	/	-	↓	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Queue Length 50th (ft)		205	2	11	546			94			6	
Queue Length 95th (ft)		#617	12	33	#977			#189			21	
Internal Link Dist (ft)		467			640			996			1113	
Turn Bay Length (ft)			50	125								
Base Capacity (vph)		1091	1039	185	1409			248			282	
Starvation Cap Reductn		0	0	0	0			0			0	
Spillback Cap Reductn		0	0	0	0			0			0	
Storage Cap Reductn		0	0	0	0			0			0	
Reduced v/c Ratio		0.74	0.02	0.11	0.91			0.69			0.04	

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 86.5

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.96 Intersection Signal Delay: 27.1

Intersection Capacity Utilization 85.0%

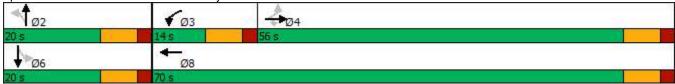
Intersection LOS: C
ICU Level of Service E

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: Access B/Carrie May Lane & Wait Avenue



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7	7	f)			4			4	
Traffic Volume (vph)	4	1108	47	63	841	4	105	4	37	5	4	4
Future Volume (vph)	4	1108	47	63	841	4	105	4	37	5	4	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	125		0	0		0	0		0
Storage Lanes	0		1	1		0	0		0	0		0
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.999			0.966			0.961	
Flt Protected				0.950				0.965			0.979	
Satd. Flow (prot)	0	1863	1583	1770	1861	0	0	1736	0	0	1753	0
FIt Permitted		0.998		0.950				0.778			0.885	
Satd. Flow (perm)	0	1859	1583	1770	1861	0	0	1400	0	0	1584	0
Right Turn on Red			No			No			No			No
Satd. Flow (RTOR)												
Link Speed (mph)		55			55			25			25	
Link Distance (ft)		547			720			1076			1193	
Travel Time (s)		6.8			8.9			29.3			32.5	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	4	1231	52	70	934	4	117	4	41	6	4	4
Shared Lane Traffic (%)	•		V -	. •		•		•			•	•
Lane Group Flow (vph)	0	1235	52	70	938	0	0	162	0	0	14	0
Turn Type	Perm	NA	Perm	Prot	NA		Perm	NA	•	Perm	NA	-
Protected Phases		4		3	8			2			6	
Permitted Phases	4	-	4		_		2	_		6	•	
Detector Phase	4	4	4	3	8		2	2		6	6	
Switch Phase	•	-	•		_		_	_		•	•	
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	20.0	20.0	20.0	14.0	20.0		20.0	20.0		20.0	20.0	
Total Split (s)	85.0	85.0	85.0	14.0	99.0		21.0	21.0		21.0	21.0	
Total Split (%)	70.8%	70.8%	70.8%	11.7%	82.5%		17.5%	17.5%		17.5%	17.5%	
Maximum Green (s)	78.0	78.0	78.0	7.0	92.0		14.0	14.0		14.0	14.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0	-2.0	-2.0	-2.0			-2.0			-2.0	
Total Lost Time (s)		5.0	5.0	5.0	5.0			5.0			5.0	
Lead/Lag	Lag	Lag	Lag	Lead	0.0			0.0			0.0	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		Min	Min		Min	Min	
Act Effct Green (s)	110110	79.4	79.4	9.0	90.3		141111	15.9		141111	15.9	
Actuated g/C Ratio		0.68	0.68	0.08	0.78			0.14			0.14	
v/c Ratio		0.97	0.05	0.51	0.65			0.85			0.06	
Control Delay		38.9	7.1	67.0	8.3			86.2			46.5	
Queue Delay		0.0	0.0	0.0	0.0			0.0			0.0	
Total Delay		38.9	7.1	67.0	8.3			86.2			46.5	
LOS		30.9 D	7.1 A	67.0 E	6.5 A			60.Z F			40.5 D	
Approach Delay		37.6	A		12.4			86.2			46.5	
Approach LOS		37.0 D			12.4 B			60.Z F			40.5 D	
Apploacii LOS		U			D			Г			U	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Queue Length 50th (ft)		870	13	53	264			125			10	
Queue Length 95th (ft)		#1253	27	103	369			#251			30	
Internal Link Dist (ft)		467			640			996			1113	
Turn Bay Length (ft)			50	125								
Base Capacity (vph)		1286	1095	137	1512			193			219	
Starvation Cap Reductn		0	0	0	0			0			0	
Spillback Cap Reductn		0	0	0	0			0			0	
Storage Cap Reductn		0	0	0	0			0			0	
Reduced v/c Ratio		0.96	0.05	0.51	0.62			0.84			0.06	

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 116.2

Natural Cycle: 110

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.97 Intersection Signal Delay: 30.6

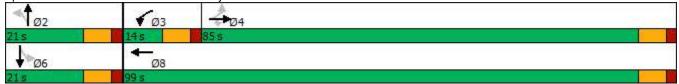
Intersection Signal Delay: 30.6 Intersection LOS: C
Intersection Capacity Utilization 84.6% ICU Level of Service E

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: Access B/Carrie May Lane & Wait Avenue



ntersection	400.0												
nt Delay, s/veh	138.3												
lovement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations		सी	7	<u>ነ</u>	₽			4			4		
raffic Vol, veh/h	4	718	14	77	1122	4	95	4	56	4	4	4	
uture Vol, veh/h	4	718	14	77	1122	4	95	4	56	4	4	4	
conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
ign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
T Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
torage Length	-	-	50	350	-	-	-	-	-	-	-	-	
eh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
rade, %	-	0	-	-	0	-	-	0	-	-	0	-	
eak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
eavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
lvmt Flow	4	798	16	86	1247	4	106	4	62	4	4	4	
ajor/Minor	Major1		N	/lajor2			Minor1			Minor2			
onflicting Flow All	1251	0	0	814	0	0	2231	2229	798	2268	2243	1249	
Stage 1	-	-	-	-	-	-	806	806	-	1421	1421	-	
Stage 2	-	-	-	-	_	-	1425	1423	-	847	822	-	
itical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
tical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
itical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
llow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
t Cap-1 Maneuver	556	-	-	813	-	-	~ 30	43	386	29	42	211	
Stage 1	-	-	-	-	-	-	376	395	-	169	202	-	
Stage 2	-	-	-	-	-	-	168	202	-	357	388	-	
atoon blocked, %		-	-		-	-							
ov Cap-1 Maneuver	556	-	-	813	-	-	~ 24	38	386	20	37	211	
v Cap-2 Maneuver	-	-	-	-	-	-	~ 24	38	-	20	37	-	
Stage 1	-	-	-	-	-	-	371	390	-	167	181	-	
Stage 2	-	-	-	-	-	-	143	181	-	292	383	-	
proach	EB			WB			NB			SB			
CM Control Delay, s	0.1			0.6		\$ '	1862.7			149.4			
CM LOS							F			F			
inor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SRI n1				
	it I	37	556	LDI	LDR	813	VVDI	WDR	37				
pacity (veh/h) CM Lane V/C Ratio		4.655		-	-	0.105	-	-	0.36				
CM Control Delay (s)	¢ ′	1862.7	11.5	0	-	9.9	-	-	149.4				
CM Lane LOS	Ψ	F	11.3 B	A	_	9.9 A	_	_	143.4 F				
CM 95th %tile Q(veh))	20.1	0	-	_	0.4	_	_	1.2				
ioni ootii iotiio a(voii		20.1				J.→			1.4				
otes													

Intersection													
	295.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
_ane Configurations	LDL	4	7	ሻ	4	WDIX	INDL	4	HUIT	ODL	4	ODIT	
raffic Vol, veh/h	5	1108	47	153	815	4	105	4	37	5	4	4	
uture Vol, veh/h	5	1108	47	153	815	4	105	4	37	5	4	4	
Conflicting Peds, #/hr	0	0	0	0	013	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	Stop -	Stop -	None	Stop -	Stop -	None	
Storage Length	_	-	50	350	_	NOILE	_	_	INOHE		_	None	
reh in Median Storage,		0	-	330	0	-	_	0	-	-	0	_	
Grade, %	-	0	_	_	0	_	_	0	_	_	0		
eak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
leavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
lvmt Flow	6		52	170	906	4	117	4	41	6	4	4	
WIIIL FIOW	0	1231	52	170	900	4	117	4	41	0	4	4	
lajor/Minor N	/lajor1		1	Major2		- 1	Minor1		ı	Minor2			
Conflicting Flow All	910	0	0	1283	0	0	2495	2493	1231	2540	2543	908	
Stage 1	-	-	-	-	-	-	1243	1243	-	1248	1248	-	
Stage 2	-	-	-	-	-	-	1252	1250	-	1292	1295	-	
ritical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
ritical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
ritical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
	2.218	-	_	2.218	_	_			3.318	3.518	4.018	3.318	
ot Cap-1 Maneuver	748	_	-	541	_	_	~ 20	29	216	18	27	334	
Stage 1	_	-	_	_	_	_	214	246	_	212	245	_	
Stage 2	_	_	-	-	_	_	211	244	_	200	233	-	
latoon blocked, %		-	_		_	_							
Nov Cap-1 Maneuver	748	-	_	541	-	-	~ 12	19	216	9	18	334	
lov Cap-2 Maneuver	-	-	_	-	_	-	~ 12	19	-	9	18	-	
Stage 1	-	-	_	_	-	-	208	239	-	206	168	-	
Stage 2	_	-	_	_	_	-	139	167	_	154	226	_	
				145			, LID			0.5			
pproach	EB			WB			NB			SB			
ICM Control Delay, s	0			2.3		\$ 4	4578.6		\$	511.3			
ICM LOS							F			F			
linor Lane/Major Mvmt	t	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1				
apacity (veh/h)		16	748	-	-	541	-	-	16				
CM Lane V/C Ratio	1	0.139	0.007	-	_	0.314	-	-	0.903				
CM Control Delay (s)		578.6	9.8	0	-	14.7	_		511.3				
CM Lane LOS		F	A	A	_	В	-	-	F				
CM 95th %tile Q(veh)		21.2	0	-	-	1.3	-	-	2.2				
,													
otes		A -							<u> </u>	4			
: Volume exceeds cap	acity	\$: De	lay exc	eeds 30	00s -	r: Com	outation	Not De	etined	*: All	major v	olume ir	n platoon

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	7	7	ĵ»			4			4	
Traffic Volume (vph)	4	718	14	77	1122	4	95	4	56	4	4	4
Future Volume (vph)	4	718	14	77	1122	4	95	4	56	4	4	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	350		0	0		0	0		0
Storage Lanes	0		1	1		0	0		0	0		0
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850					0.951			0.955	
Flt Protected				0.950				0.970			0.984	
Satd. Flow (prot)	0	1863	1583	1770	1863	0	0	1718	0	0	1750	0
Flt Permitted		0.948		0.950				0.805			0.906	
Satd. Flow (perm)	0	1766	1583	1770	1863	0	0	1426	0	0	1612	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			133					27			4	
Link Speed (mph)		55			55			25			25	
Link Distance (ft)		547			774			1076			1193	
Travel Time (s)		6.8			9.6			29.3			32.5	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	4	798	16	86	1247	4	106	4	62	4	4	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	802	16	86	1251	0	0	172	0	0	12	0
Turn Type	Perm	NA	Perm	Prot	NA		Perm	NA		Perm	NA	
Protected Phases		4		3	8			2			6	
Permitted Phases	4		4				2			6		
Detector Phase	4	4	4	3	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	20.0	20.0	20.0	14.0	20.0		20.0	20.0		20.0	20.0	
Total Split (s)	56.0	56.0	56.0	14.0	70.0		20.0	20.0		20.0	20.0	
Total Split (%)	62.2%	62.2%	62.2%	15.6%	77.8%		22.2%	22.2%		22.2%	22.2%	
Maximum Green (s)	49.0	49.0	49.0	7.0	63.0		13.0	13.0		13.0	13.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0	-2.0	-2.0	-2.0			-2.0			-2.0	
Total Lost Time (s)		5.0	5.0	5.0	5.0			5.0			5.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		Min	Min		Min	Min	
Act Effct Green (s)		49.6	49.6	9.2	60.2			13.6			13.6	
Actuated g/C Ratio		0.59	0.59	0.11	0.72			0.16			0.16	
v/c Ratio		0.77	0.02	0.44	0.94			0.68			0.05	
Control Delay		20.9	0.0	46.1	25.7			44.0			27.1	
Queue Delay		0.0	0.0	0.0	0.0			0.0			0.0	
Total Delay		20.9	0.0	46.1	25.7			44.0			27.1	
LOS		С	Α	D	С			D			С	
Approach Delay		20.5			27.1			44.0			27.1	
Approach LOS		С			С			D			С	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Queue Length 50th (ft)		337	0	47	504			78			4	
Queue Length 95th (ft)		514	0	94	#937			#162			19	
Internal Link Dist (ft)		467			694			996			1113	
Turn Bay Length (ft)			50	350								
Base Capacity (vph)		1095	1032	194	1457			282			297	
Starvation Cap Reductn		0	0	0	0			0			0	
Spillback Cap Reductn		0	0	0	0			0			0	
Storage Cap Reductn		0	0	0	0			0			0	
Reduced v/c Ratio		0.73	0.02	0.44	0.86			0.61			0.04	

Intersection Summary

Area Type: Other

Cycle Length: 90

Actuated Cycle Length: 84

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.94

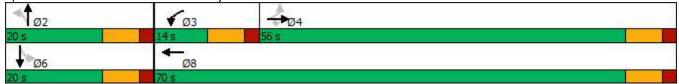
Intersection Signal Delay: 26.0 Intersection LOS: C Intersection Capacity Utilization 87.9% ICU Level of Service E

Analysis Period (min) 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

2: Access B/Carrie May Lane & Wait Avenue Splits and Phases:



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	7	, j	ĵ»			4			4	
Traffic Volume (vph)	5	1108	47	153	815	4	105	4	37	5	4	4
Future Volume (vph)	5	1108	47	153	815	4	105	4	37	5	4	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		50	350		0	0		0	0		0
Storage Lanes	0		1	1		0	0		0	0		0
Taper Length (ft)	100			100			100			100		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850		0.999			0.966			0.961	
FIt Protected				0.950				0.965			0.979	
Satd. Flow (prot)	0	1863	1583	1770	1861	0	0	1736	0	0	1753	0
FIt Permitted		0.996		0.950				0.778			0.883	
Satd. Flow (perm)	0	1855	1583	1770	1861	0	0	1400	0	0	1581	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			100		1			12			4	
Link Speed (mph)		55			55			25			25	
Link Distance (ft)		547			774			1076			1193	
Travel Time (s)		6.8			9.6			29.3			32.5	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	1231	52	170	906	4	117	4	41	6	4	4
Shared Lane Traffic (%)												-
Lane Group Flow (vph)	0	1237	52	170	910	0	0	162	0	0	14	0
Turn Type	Perm	NA	Perm	Prot	NA	-	Perm	NA		Perm	NA	_
Protected Phases		4		3	8			2			6	
Permitted Phases	4		4				2			6		
Detector Phase	4	4	4	3	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)	20.0	20.0	20.0	14.0	20.0		20.0	20.0		20.0	20.0	
Total Split (s)	84.0	84.0	84.0	16.0	100.0		20.0	20.0		20.0	20.0	
Total Split (%)	70.0%	70.0%	70.0%	13.3%	83.3%		16.7%	16.7%		16.7%	16.7%	
Maximum Green (s)	77.0	77.0	77.0	9.0	93.0		13.0	13.0		13.0	13.0	
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0		5.0	5.0		5.0	5.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Lost Time Adjust (s)		-2.0	-2.0	-2.0	-2.0			-2.0			-2.0	
Total Lost Time (s)		5.0	5.0	5.0	5.0			5.0			5.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None	None	None	None		Min	Min		Min	Min	
Act Effct Green (s)		79.0	79.0	11.0	95.0			15.0			15.0	
Actuated g/C Ratio		0.66	0.66	0.09	0.79			0.12			0.12	
v/c Ratio		1.01	0.05	1.05	0.62			0.88			0.07	
Control Delay		50.5	0.2	136.9	7.3			88.4			38.8	
Queue Delay		0.0	0.0	0.0	0.0			0.0			0.0	
Total Delay		50.5	0.2	136.9	7.3			88.4			38.8	
LOS		D	A	F	A			F			D	
Approach Delay		48.4			27.7			88.4			38.8	
Approach LOS		D			С			F			D	

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Queue Length 50th (ft)		~940	0	~143	235			116			7	
Queue Length 95th (ft)		#1271	1	#285	328			#245			28	
Internal Link Dist (ft)		467			694			996			1113	
Turn Bay Length (ft)			50	350								
Base Capacity (vph)		1221	1076	162	1473			185			201	
Starvation Cap Reductn		0	0	0	0			0			0	
Spillback Cap Reductn		0	0	0	0			0			0	
Storage Cap Reductn		0	0	0	0			0			0	
Reduced v/c Ratio		1.01	0.05	1.05	0.62			0.88			0.07	

Intersection Summary

Area Type: Other

Cycle Length: 120 Actuated Cycle Length: 120

Natural Cycle: 120

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 1.05 Intersection Signal Delay: 42.1 Intersection Capacity Utilization 129.0%

Intersection LOS: D
ICU Level of Service H

Analysis Period (min) 15

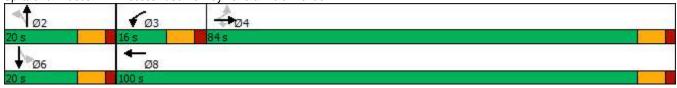
Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 2: Access B/Carrie May Lane & Wait Avenue



APPENDIX F

CAPACITY ANALYSIS CALCULATIONS WAIT AVENUE

&

AUSTIN VIEW BLVD

Int Delay, s/veh	5.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
						NDIX
Lane Configurations	†	7	<u>*</u>	074	**	20
Traffic Vol, veh/h	537	31	9	971	63	32
Future Vol, veh/h	537	31	9	971	63	32
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	150	325	-	0	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	597	34	10	1079	70	36
IVIVIII(I IOW	001	04	10	1075	70	00
Major/Minor	Major1	1	Major2	ı	Minor1	
Conflicting Flow All	0	0	631	0	1696	597
Stage 1	-	-	-	_	597	_
Stage 2	_	_	_	_	1099	_
Critical Hdwy	_	_	4.12	_	6.42	6.22
Critical Hdwy Stg 1	_	_	7.12	_	5.42	-
Critical Hdwy Stg 2	_		_	_	5.42	
		-				
Follow-up Hdwy	-		2.218		3.518	
Pot Cap-1 Maneuver	-	-	951	-	102	503
Stage 1	-	-	-	-	550	-
Stage 2	-	-	-	-	319	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	951	-	101	503
Mov Cap-2 Maneuver	-	-	-	-	101	-
Stage 1	-	_	_	_	550	_
Stage 2	_	_	_	_	315	_
Clago 2					010	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		86.7	
HCM LOS					F	
						14/5-
Minor Lane/Major Mvn	nt N	NBLn1	EBT	EBR		WBT
Capacity (veh/h)		138	-	-	001	-
HCM Lane V/C Ratio		0.765	-	-	0.011	-
)	86.7	-	-	8.8	-
HCM Control Delay (s)						
	,	F	-	-	Α	-
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh	,	F 4.6	-	-	A 0	-

Intersection						
Int Delay, s/veh	3.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	7	ነ ነ	<u> </u>	¥	TIDIT
Traffic Vol, veh/h	853	59	30	657	43	25
Future Vol, veh/h	853	59	30	657	43	25
Conflicting Peds, #/hr	000	0	0	007	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	Stop -	None
Storage Length	_	150	325	-	0	INOHE
Veh in Median Storage		150	323	0	0	_
	e, # 0 0			0	0	
Grade, %		-	-			-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	948	66	33	730	48	28
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1014	0	1744	948
Stage 1	-	-	-	-	948	-
Stage 2	_	_	_	_	796	_
Critical Hdwy	_	_	4.12	_	6.42	6.22
Critical Hdwy Stg 1	_	_		_	5.42	-
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	_	_	2.218		3.518	
Pot Cap-1 Maneuver			684	_	95	316
•		_	004	_	377	310
Stage 1	-	-	_		444	-
Stage 2	-	-	-	-	444	-
Platoon blocked, %	-	-	004	-	00	040
Mov Cap-1 Maneuver		-	684	-	90	316
Mov Cap-2 Maneuver	-	-	-	-	90	-
Stage 1	-	-	-	-	377	-
Stage 2	-	-	-	-	423	-
Approach	EB		WB		NB	
			0.5			
HCM Control Delay, s	0		0.5		73.6	
HCM LOS					F	
Minor Lane/Major Mvr	nt l	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		122	_	-	684	_
HCM Lane V/C Ratio		0.619	_		0.049	_
HCM Control Delay (s)	73.6	_	_		_
HCM Lane LOS	1	7 5.0 F	_	_	В	_
HCM 95th %tile Q(veh)	3.2	_		0.2	_
	'7	J.Z			0.2	

tersection							
t Delay, s/veh	15.6						
ovement	EBT	EBR	WBL	WBT	NBL	NBR	
ane Configurations	<u></u>		YVDL		NDL W	NDI	
raffic Vol, veh/h	T 623	7 36	10	↑ 1126	73	37	
uture Vol, veh/h	623	36	10	1126	73	37	
		0	0	0	0		
onflicting Peds, #/hr		Free	Free	Free			
ign Control T Channelized	Free				Stop		
	-	None 150	325	None	-		
torage Length	- # 0			0	0	-	
eh in Median Storag	je,# 0 0	-	-	0	0		
rade, % eak Hour Factor	90	90	90	90	90	90	
			2				
eavy Vehicles, % vmt Flow	692	40	11	2 1251	2 81	2 41	
vmt Flow	092	40	- 11	1251	01	41	
ajor/Minor	Major1		Major2		Minor1		
onflicting Flow All	0	0	732	0	1965	692	
Stage 1	-	-	132	-	692	092	
Stage 2	_	_	_	_	1273	_	
ritical Hdwy				_	6.42	6.22	
ritical Hdwy Stg 1	_	<u>-</u>	T. 12	<u>-</u>	5.42	0.22	
ritical Hdwy Stg 2	_	_	_	_	5.42	_	
ollow-up Hdwy	_	_	2.218			3.318	
ot Cap-1 Maneuver		_	873	_	~ 69	444	
Stage 1	_	_	0/0	_	497	-	
Stage 2		_	_	_	263	_	
latoon blocked, %	_	_	_	_	200	_	
ov Cap-1 Maneuver			873		~ 68	444	
ov Cap-1 Maneuver		_	- 073	_	~ 68	444	
Stage 1	<u> </u>	_		_	497		
Stage 2	_				260	_	
Olago Z	-				200		
pproach	EB		WB		NB		
CM Control Delay, s			0.1		268.9		
CM LOS			V		F		
inor Lane/Major Mvi	mtl	NBLn1	EBT	EBR	WBL	WBT	
apacity (veh/h)		95	-	-	873	-	
CM Lane V/C Ratio		1.287	-	-	0.013	-	
CM Control Delay (s	s)	268.9	-	-	9.2	-	
CM Lane LOS		F	-	-	Α	-	
		8.7	_	_	0		
CM 95th %tile Q(vel	h)	0.7			•		
otes	h) 	0.7					

Intersection						
Int Delay, s/veh	8.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
						NDK
Lane Configurations	090	7 68	\	762	**	29
Traffic Vol, veh/h	989		35	762	50	
Future Vol, veh/h	989	68	35	762	50	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	205	None	-	
Storage Length	-	150	325	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1099	76	39	847	56	32
Major/Minor N	Major1	N	Major2		Minor1	
Conflicting Flow All	0	0	1175	0	2024	1099
Stage 1	-	-	-	-	1099	-
Stage 2	_	_	_	_	925	_
Critical Hdwy	_	_	4.12	_	6.42	6.22
Critical Hdwy Stg 1	<u>-</u>	_	7.12	_	5.42	- 0.22
Critical Hdwy Stg 2			_		5.42	_
Follow-up Hdwy	<u>-</u>	_	2.218	_	3.518	
Pot Cap-1 Maneuver			594		64	258
Stage 1	_	_	-	_	319	230
Stage 2				_	386	_
Platoon blocked, %	-	-	-		300	-
	_	-	594	-	60	258
Mov Cap-1 Maneuver	-	-	594	-		
Mov Cap-2 Maneuver	-	-	-	-	60	-
Stage 1	-	-	-	-	319	-
Stage 2	-	-	-	-	361	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		200.3	
HCM LOS					F	
Minor Long/Maior M	4	UDL 1	EDT	EDD	WDI	WDT
Minor Lane/Major Mvm	t ſ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		84	-	-	594	-
HCM Lane V/C Ratio		1.045	-	-	0.065	-
HCM Control Delay (s)		200.3	-	-	11.5	-
HCM Lane LOS		F	-	-	В	-
HCM 95th %tile Q(veh)		6	-	-	0.2	-

Intersection								
Int Delay, s/veh	23							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations		7	ች	^	W			
Traffic Vol, veh/h	697	36	10	1210	73	37		
uture Vol, veh/h	697	36	10	1210	73	37		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	_	None	_	None	_	None		
Storage Length	_	150	325	_	0	_		
/eh in Median Storage,	# 0	_	-	0	0	_		
Grade, %	. 0	_	_	0	0	_		
Peak Hour Factor	90	90	90	90	90	90		
leavy Vehicles, %	2	2	2	2	2	2		
Nymt Flow	774	40	11	1344	81	41		
WWIIICH IOW	114	40	- 11	1044	01	71		
Major/Minor N	/lajor1	N	Major2		Minor1			
Conflicting Flow All	0	0	814		2140	774		
Stage 1	-	-	- 014	-	774	-		
Stage 2	_	_	_	_	1366	_		
Critical Hdwy		<u>-</u>	4.12	_	6.42	6.22		
ritical Hdwy Stg 1	_		4.12	_	5.42	0.22		
ritical Hdwy Stg 2		<u>-</u>	_	_	5.42	-		
		-	2.218	-	3.518			
ollow-up Hdwy ot Cap-1 Maneuver	-	-	813		~ 54	398		
		-		-	455			
Stage 1	-	_	-	-	237	-		
Stage 2		-	-	-	231	-		
latoon blocked, %	-	-	813	-	52	398		
Mov Cap-1 Maneuver	-	-		-	~ 53			
Nov Cap-2 Maneuver	-	-	-	-	~ 53	-		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	234	-		
			\A/D		, LIE			
pproach	EB		WB		NB			
HCM Control Delay, s	0		0.1	\$	429.8			
HCM LOS					F			
Minor Lane/Major Mvmt		VIDI 51	EDT	EDD	\\/DI	\\/DT		
		VBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		75	-	-	813	-		
CM Lane V/C Ratio		1.63	-		0.014	-		
ICM Control Delay (s)	\$	429.8	-	-	9.5	-		
ICM Lane LOS		F	-	-	A	-		
ICM 95th %tile Q(veh)		10.3	-	-	0	-		
lotes								
: Volume exceeds cap	acity	\$: De	lay exc	eeds 30	00s -	+: Comp	outation Not Defined	*: All major volume in platoon
								<u> </u>

Intersection								
Int Delay, s/veh	17.2							
• ·								
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
ane Configurations		7	<u>ነ</u>		¥			
Traffic Vol, veh/h	1129	68	35	890	50	29		
uture Vol, veh/h	1129	68	35	890	50	29		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	150	325	-	0	-		
/eh in Median Storago	e,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2		
Л∨mt Flow	1254	76	39	989	56	32		
lajor/Minor	Major1	1	Major2	1	Minor1			
Conflicting Flow All	0	0	1330	0	2321	1254		
Stage 1	-	-	-	-	1254	-		
Stage 2	-	-	-	-	1067	-		
Critical Hdwy	-	-	4.12	-	6.42	6.22		
Critical Hdwy Stg 1	-	-	-	-	5.42	-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
ollow-up Hdwy	-	-	2.218	-	3.518	3.318		
Pot Cap-1 Maneuver	-	-	519	-	~ 41	210		
Stage 1	-	-	-	-	269	-		
Stage 2	-	-	-	-	331	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuver	-	-	519	-	~ 38	210		
Mov Cap-2 Maneuver		-	-	-	~ 38	-		
Stage 1	-	-	-	-	269	-		
Stage 2	-	-	-	-	306	-		
Approach	EB		WB		NB			
HCM Control Delay, s	0		0.5	\$	474.3			
HCM LOS				· ·	F			
Minor Lane/Major Mvr	nt I	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		54	-	-	519	-		
ICM Lane V/C Ratio		1.626	-	-	0.075	-		
ICM Control Delay (s) \$	474.3	-	_	12.5	-		
ICM Lane LOS	, — Ψ	F	-	-	В	-		
ICM 95th %tile Q(veh	1)	8.2	-	-	0.2	-		
•								
Votes		Φ. D.	la		20-	0	outstan Nat D. Co.	*. All as also as also as a last
: Volume exceeds ca	pacity	\$: De	elay exc	eeds 30	JUS -	+: Com	outation Not Defined	*: All major volume in platoon

Intersection								
Int Delay, s/veh	23							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
ane Configurations	↑	7	ሻ	<u> </u>	¥	HOIL		
raffic Vol, veh/h	697	36	10	1210	73	37		
uture Vol, veh/h	697	36	10	1210	73	37		
onflicting Peds, #/hr		0	0	0	0	0		
ign Control	Free	Free	Free	Free	Stop	Stop		
T Channelized	-	None	-	None	Olop -	None		
Storage Length	_	150	325	-	0	-		
eh in Median Storag		-	-	0	0	_		
Grade, %	0	_	_	0	0	_		
eak Hour Factor	90	90	90	90	90	90		
eavy Vehicles, %	2	2	2	2	2	2		
lvmt Flow	774	40	11	1344	81	41		
VIIIL FIOW	114	40	11	1344	01	41		
lajor/Minor	Major1		Major		Minor1			
	Major1		Major2			771		
onflicting Flow All	0	0	814		2140	774		
Stage 1	-	-	-	-	774 1366	-		
Stage 2	-	-	4 40	-		-		
ritical Hdwy	-	-		-	6.42	6.22		
ritical Hdwy Stg 1	-	-	-	-	5.42	-		
ritical Hdwy Stg 2	-	-	-	-	5.42	-		
ollow-up Hdwy	-		2.218		3.518			
ot Cap-1 Maneuver	-	-	813	-	~ 54	398		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	237	-		
latoon blocked, %	-	-	040	-		200		
lov Cap-1 Maneuver		-	813	-	~ 53	398		
lov Cap-2 Maneuver		-	-	-	~ 53	-		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	234	-		
pproach	EB		WB		NB			
ICM Control Delay, s	0		0.1	\$	429.8			
ICM LOS					F			
linor Lane/Major Mvi	mt I	NBLn1	EBT	EBR	WBL	WBT		
apacity (veh/h)		75	-	-	813	-		
CM Lane V/C Ratio		1.63	-	-	0.014	-		
CM Control Delay (s	\$)	429.8	-	-	9.5	-		
CM Lane LOS		F	-	-	Α	-		
CM 95th %tile Q(vel	h)	10.3	-	-	0	-		
otes								
Volume exceeds ca	apacity	\$: De	elay exc	eeds 30)0s	+: Comr	outation Not Defined	*: All major volume in plato
	. ,							, , , , , , , , , , , , , , , , , , , ,

Int Delay, s/veh
Movement EBT EBR WBL WBT NBL NBR Lane Configurations ↑
Traffic Vol, veh/h
Traffic Vol, veh/h
Traffic Vol, veh/h 1129 68 35 890 50 29 Future Vol, veh/h 1129 68 35 890 50 29 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Free Free Free Free Free Stop Stop RT Channelized - None - 0 - - 0 - - 0 - - 0 - - 0 0 - - 0 <
Future Vol, veh/h 1129 68 35 890 50 29 Conflicting Peds, #/hr 0 - None - 0 - - 0 0 - - 0 0 - - 0 0 - - 0 0 9 9 9
Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Free Free Free Free Free Free Stop Stop RT Channelized - None - - 0 - - 0 - - - 0 - - - - - - 90 90 90 90 90 90 90
Sign Control Free Stop Stop RT Channelized - None - None
RT Channelized - None - None - None - None Storage Length - 150 325 - 0 - Veh in Median Storage, # 0 0 0 - Grade, % 0 0 0 - Peak Hour Factor 90 90 90 90 90 90 Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 2 2 2 32 3 2
Storage Length - 150 325 - 0 - Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 90 90 90 90 90 90 Heavy Vehicles, % 2 32 Mymt Flow 1254 76 39 989 56 32 Major/Minor Major1 Major2 Minor1 Conflicting Flow All 0 0 1330 0 2321 1254 Stage 1 - - - - 1067 - Stage 2 - - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42
Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 90 90 90 90 90 90 90 Heavy Vehicles, % 2 </td
Grade, % 0 - - 0 0 - Peak Hour Factor 90
Peak Hour Factor 90
Heavy Vehicles, % 2
Heavy Vehicles, % 2
Mvmt Flow 1254 76 39 989 56 32 Major/Minor Major1 Major2 Minor1 Conflicting Flow All 0 0 1330 0 2321 1254 Stage 1 - - - - 1254 - Stage 2 - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Major/Minor Major1 Major2 Minor1 Conflicting Flow All 0 0 1330 0 2321 1254 Stage 1 - - - 1254 - Stage 2 - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - 5.42 -
Conflicting Flow All 0 0 1330 0 2321 1254 Stage 1 - - - - 1254 - Stage 2 - - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Conflicting Flow All 0 0 1330 0 2321 1254 Stage 1 - - - - 1254 - Stage 2 - - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Stage 1 - - - - 1254 - Stage 2 - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Stage 1 - - - - 1254 - Stage 2 - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Stage 2 - - - - 1067 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 -
Critical Hdwy Stg 1 5.42 -
, ,
CHILDUI I IGNA CIU C
Follow-up Hdwy 2.218 - 3.518 3.318
D 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
•
Stage 1 269 -
Stage 2 331 -
Platoon blocked, %
Mov Cap-1 Maneuver 519 - ~ 38 210
Mov Cap-2 Maneuver ~ 38 -
Stage 1 269 -
Stage 2 306 -
Approach EB WB NB
HCM Control Delay, s 0 0.5 \$ 474.3
HCM LOS F
ALL I MALL NA LENDE A FOT FOR MICH.
Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT
Capacity (veh/h) 54 519 -
HCM Lane V/C Ratio 1.626 0.075 -
HCM Lane V/C Ratio 1.626 0.075 -
HCM Lane V/C Ratio 1.626 0.075 - HCM Control Delay (s) \$ 474.3 12.5 - HCM Lane LOS F - B -
HCM Lane V/C Ratio 1.626 0.075 - HCM Control Delay (s) \$ 474.3 12.5 - HCM Lane LOS F - B - HCM 95th %tile Q(veh) 8.2 0.2 -
HCM Lane V/C Ratio 1.626 0.075 - HCM Control Delay (s) \$ 474.3 12.5 - HCM Lane LOS F - B -

Intersection								
Int Delay, s/veh	23							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations		7	7		- W			
Traffic Vol, veh/h	697	36	11	1210	73	37		
Future Vol, veh/h	697	36	11	1210	73	37		
Conflicting Peds, #/hr	. 0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	150	325	-	0	-		
Veh in Median Storag	je,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	774	40	12	1344	81	41		
Major/Minor	Major1		Major2	N	Minor1			
Conflicting Flow All	0	0	814		2142	774		
					774			
Stage 1	-	-	-	-	1368	-		
Stage 2	-	-	4.12	-		6 22		
Critical Hdwy	-	-		-	6.42 5.42	6.22		
Critical Hdwy Stg 1	-	-	-	-		-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
Follow-up Hdwy	-	-	2.218	-	3.518			
Pot Cap-1 Maneuver	-	-	813	-	~ 54	398		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	237	-		
Platoon blocked, %	-	-	0.40	-	=-	000		
Mov Cap-1 Maneuve		-	813	-	~ 53	398		
Mov Cap-2 Maneuver	· -	-	-	-	~ 53	-		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	233	-		
Approach	EB		WB		NB			
HCM Control Delay, s			0.1	\$	429.8			
HCM LOS	, ,		V.1	Ψ	F			
		NDL 4	E 5 T	ED.5	14/5:	14/57		
Minor Lane/Major Mv	mt l	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		75	-	-	813	-		
HCM Lane V/C Ratio		1.63	-	-	0.015	-		
HCM Control Delay (s	s) \$	429.8	-	-	9.5	-		
HCM Lane LOS		F	-	-	Α	-		
HCM 95th %tile Q(ve	h)	10.3	-	-	0	-		
Notes								
~: Volume exceeds ca	anacity	\$. Do	lav ovo	eeds 30	Ωe	T. Comi	outation Not Defined	*: All major volume in platoon
. volume exceeds ca	apacity	φ. De	iay exc	ccus 3 (005	r. Comp	Dutation Not Delined	. Ali major volume in piatoon

							_	
Intersection								
Int Delay, s/veh	17.2							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations			VVDL T		₩.	וטוז		
Traffic Vol, veh/h	↑ 1129	68	1 37	↑ 890	7	29		
	1129	68	37		50			
Future Vol, veh/h				890		29		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	- " 0	150	325	-	0	-		
Veh in Median Storag		-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	1254	76	41	989	56	32		
Major/Minor	Major1	1	Major2	ı	Minor1			
Conflicting Flow All	0	0	1330	0	2325	1254		
		U						
Stage 1	-	-	-	-	1254	-		
Stage 2	-	-	1.40	-	1071	-		
Critical Hdwy	-	-	4.12	-	6.42	6.22		
Critical Hdwy Stg 1	-		-	-	5.42	-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
Follow-up Hdwy	-	-	2.218	-	3.518			
Pot Cap-1 Maneuver	-	-	519	-	~ 41	210		
Stage 1	_	-	-	-	269	-		
Stage 2	-	-	-	-	329	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuver	_	-	519	-	~ 38	210		
Mov Cap-2 Maneuver		_	-	-	~ 38	-		
Stage 1		_	-	-	269	-		
Stage 2	_	_	_	_	303	_		
Ciago 2					000			
Approach	EB		WB		NB			
HCM Control Delay, s	0		0.5	\$	474.3			
HCM LOS					F			
NA:		UDI 4	EDT	EDD	MDI	MOT		
Minor Lane/Major Mvr	nt N	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		54	-	-	519	-		
HCM Lane V/C Ratio		1.626	-	-	0.079	-		
HCM Control Delay (s	\$)	474.3	-	-	12.5	-		
HCM Lane LOS		F	-	-	В	-		
HCM 95th %tile Q(veh	~\	8.2	_	-	0.3	-		
	1)	0.2						
	1)	0.2					,	
Notes ~: Volume exceeds ca	<u></u>		elay exc		20-	0		outation Not Defined

Intersection								
Int Delay, s/veh	23							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations		7	7		- W			
Traffic Vol, veh/h	697	36	11	1210	73	37		
Future Vol, veh/h	697	36	11	1210	73	37		
Conflicting Peds, #/hr	. 0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	150	325	-	0	-		
Veh in Median Storag	je,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	774	40	12	1344	81	41		
Major/Minor	Major1		Major2	N	Minor1			
Conflicting Flow All	0	0	814		2142	774		
					774			
Stage 1	-	-	-	-	1368	-		
Stage 2	-	-	4.12	-		6 22		
Critical Hdwy	-	-		-	6.42 5.42	6.22		
Critical Hdwy Stg 1	-	-	-	-		-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
Follow-up Hdwy	-	-	2.218	-	3.518			
Pot Cap-1 Maneuver	-	-	813	-	~ 54	398		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	237	-		
Platoon blocked, %	-	-	0.40	-	=-	000		
Mov Cap-1 Maneuve		-	813	-	~ 53	398		
Mov Cap-2 Maneuver	· -	-	-	-	~ 53	-		
Stage 1	-	-	-	-	455	-		
Stage 2	-	-	-	-	233	-		
Approach	EB		WB		NB			
HCM Control Delay, s			0.1	\$	429.8			
HCM LOS	, ,		V.1	Ψ	F			
		NDL 4	E 5 T	ED.5	14/5:	14/57		
Minor Lane/Major Mv	mt l	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		75	-	-	813	-		
HCM Lane V/C Ratio		1.63	-	-	0.015	-		
HCM Control Delay (s	s) \$	429.8	-	-	9.5	-		
HCM Lane LOS		F	-	-	Α	-		
HCM 95th %tile Q(ve	h)	10.3	-	-	0	-		
Notes								
~: Volume exceeds ca	anacity	\$. Do	lav ovo	eeds 30	Ωe	T. Comi	outation Not Defined	*: All major volume in platoon
. volume exceeds ca	apacity	φ. De	iay exc	ccus 3 (005	r. Comp	Dutation Not Delined	. Ali major volume in piatoon

Intersection						
Int Delay, s/veh	17.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		VVDL آ	^	¥.	HOIN
Traffic Vol, veh/h	1129		37	T 890	50	29
Future Vol, veh/h	1123		37	890	50	29
Conflicting Peds, #/hr			0	090	0	0
Sign Control	Free		Free	Free	Stop	Stop
RT Channelized	riee		riee -	None		None
Storage Length			325	None -	0	None -
Veh in Median Storag			J25 -	0	0	_
)e, # C			0	0	
Grade, %			-			-
Peak Hour Factor	90		90	90	90	90
Heavy Vehicles, %	2		2	2	2	2
Mvmt Flow	1254	76	41	989	56	32
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	(Viajori		1330	0	2325	1254
Stage 1			1330	-	1254	1204
Stage 2			-		1071	_
	•	-	4.12	-	6.42	6.22
Critical Hdwy				-		
Critical Hdwy Stg 1	•	-	-	-	5.42	-
Critical Hdwy Stg 2		-	-	-	5.42	-
Follow-up Hdwy		-	2.218	-	3.518	
Pot Cap-1 Maneuver	•	-	519	-	~ 41	210
Stage 1		-	-	-	269	-
Stage 2		-	-	-	329	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	·	-	519	-	~ 38	210
Mov Cap-2 Maneuver			-	-	~ 38	-
Stage 1	_	_	-	_	269	-
Stage 2		_	_	_	303	_
2.530 =					500	
Approach	EB		WB		NB	
HCM Control Delay, s	S C		0.5	\$	474.3	
HCM LOS					F	
NA:		NIDL 4	EDT	EDD	MDI	MOT
Minor Lane/Major Mv	mt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		54	-	-	519	-
HCM Lane V/C Ratio		1.626	-	-	0.079	-
HCM Control Delay (s	s)	\$ 474.3	-	-	12.5	-
HCM Lane LOS		F	-	-	В	-
HCM 95th %tile Q(ve	h)	8.2	-	-	0.3	-
Notos						
Notes	.,	A =	_		20	
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 30)Us -	+: Comp

APPENDIX G

CAPACITY ANALYSIS CALCULATIONS Averette Road

&

OLD PEARCE ROAD

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WDK		NDK	ODL	
Lane Configurations	\	26	164	00	ΕO	વ
Traffic Vol, veh/h	98 98	26 26	164	88	50	190
Future Vol, veh/h		20	164	88	50	190
Conflicting Peds, #/hr	0		0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	•	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	109	29	182	98	56	211
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	554	231	0	0	280	0
Stage 1	231	201	-	-	200	-
Stage 2	323	_	_	_	_	_
Critical Hdwy	6.42	6.22	-		4.12	
Critical Hdwy Stg 1	5.42	0.22	_	_	4.12	_
	5.42		_	_	-	-
Critical Hdwy Stg 2		2 210	-	-	2 210	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	493	808	-	-	1283	-
Stage 1	807	-	-	-	-	-
Stage 2	734	-	-	-	-	-
Platoon blocked, %	,		-	-	1000	-
Mov Cap-1 Maneuver	469	808	-	-	1283	-
Mov Cap-2 Maneuver	469	-	-	-	-	-
Stage 1	807	-	-	-	-	-
Stage 2	698	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	14.5		0		1.7	
HCM LOS	В					
Minor Lane/Major Mvm	ıt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		_	-		1283	_
HCM Lane V/C Ratio		-	_	0.268		-
HCM Control Delay (s)		-	-	14.5	7.9	0
HCM Lane LOS		-	-	В	Α	A
HCM 95th %tile Q(veh)		_	_	1.1	0.1	-
70410 4(1011)					· · ·	

Intersection						
Int Delay, s/veh	3.3					
•		14/55	NET	NEE	051	0.5.7
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥		₽			र्न
Traffic Vol, veh/h	71	32	188	60	61	175
Future Vol, veh/h	71	32	188	60	61	175
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	79	36	209	67	68	194
N.A. ' /N.A.						
	Minor1		/lajor1		Major2	
Conflicting Flow All	573	243	0	0	276	0
Stage 1	243	-	-	-	-	-
Stage 2	330	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318	-	-	2.218	-
Pot Cap-1 Maneuver	481	796	_	-	1287	-
Stage 1	797	-	-	-	_	-
Stage 2	728	_	-	_	_	-
Platoon blocked, %	. 20		_	_		_
Mov Cap-1 Maneuver	453	796	_	_	1287	
Mov Cap-1 Maneuver	453	790	_	_	1201	-
	797		-	_	_	-
Stage 1		-	-	-	-	-
Stage 2	685	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	13.8		0		2.1	
HCM LOS	В				۷.۱	
TIOWI LOO	U					
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	523	1287	-
HCM Lane V/C Ratio		-	-	0.219	0.053	-
HCM Control Delay (s)		-	-	13.8	8	0
HCM Lane LOS		-	-	В	A	A
HCM 95th %tile Q(veh)	-	_	0.8	0.2	_
3111 3341 70413 34 7011	1			3.0	J.L	

Intersection						
Int Delay, s/veh	4.1					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y	20	}	400	Ε0.	4
Traffic Vol, veh/h	114	30	190	102	58	220
Future Vol, veh/h	114	30	190	102	58	220
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	127	33	211	113	64	244
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	640	268	0	0	324	0
Stage 1	268	-	-	-	-	_
Stage 2	372	<u>-</u>	_	_	<u>-</u>	_
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	- 12	_
Critical Hdwy Stg 2	5.42	_	_	_	_	_
Follow-up Hdwy	3.518	3 318	_	_	2.218	_
Pot Cap-1 Maneuver	440	771	_	_	1236	_
Stage 1	777	-	_	_	-	_
Stage 2	697	_	_	_	_	_
Platoon blocked, %	001		_	_		_
Mov Cap-1 Maneuver	414	771	_	_	1236	_
Mov Cap-1 Maneuver	414	- 771			1230	
Stage 1	777	-	-	_	-	-
•	655		-	-		-
Stage 2	000	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	17		0		1.7	
HCM LOS	С					
Minor Lane/Major Mvm	4	NBT	NDDV	VBLn1	SBL	SBT
		INDI				SDI
Capacity (veh/h)		-	-	.00	1236	-
HCM Lane V/C Ratio HCM Control Delay (s)		-		0.349		-
DUJVI COMBO DEISV (S)		-	-	17	8.1	0
				^	Λ	٨
HCM Lane LOS HCM 95th %tile Q(veh)		-	-	C 1.5	A 0.2	A -

Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		WDR		NDI	ODL	
Lane Configurations	\	27	740	70	71	4
Traffic Vol, veh/h	82	37	218	70	71	203
Future Vol, veh/h	82	37	218	70	71	203
Conflicting Peds, #/hr	0	0	0	0	0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	91	41	242	78	79	226
	Minor1		Major1		Major2	
Conflicting Flow All	665	281	0	0	320	0
Stage 1	281	-	-	-	-	-
Stage 2	384	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	_	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	425	758	-	-	1240	-
Stage 1	767	-	_	-	-	-
Stage 2	688	_	_	_	_	_
Platoon blocked, %	000		_	_		_
Mov Cap-1 Maneuver	394	758	_	_	1240	_
	394	750		_	1240	
Mov Cap-2 Maneuver			-	_		-
Stage 1	767	-	-	-	-	-
Stage 2	638	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	15.9		0		2.1	
HCM LOS	15.9 C		U		Z. I	
I IOIVI LOS	U					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	463	1240	-
HCM Lane V/C Ratio		-	-	0.286		-
HCM Control Delay (s)		_	_	15.9	8.1	0
HCM Lane LOS		_	_	C	A	A
HCM 95th %tile Q(veh)	_	_	1.2	0.2	-
	1			1,2	J.L	

Intersection												
Int Delay, s/veh	12.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ	€			4	7
Traffic Vol, veh/h	94	5	13	114	8	30	79	192	102	58	296	65
Future Vol, veh/h	94	5	13	114	8	30	79	192	102	58	296	65
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	_	-	None	_	-	None
Storage Length	-	-	-	-	-	-	100	-	-	-	-	75
Veh in Median Storage	e,# -	0	-	-	0	-	_	0	-	_	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	104	6	14	127	9	33	88	213	113	64	329	72
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	924	959	329	949	975	270	401	0	0	326	0	0
Stage 1	457	457	-	446	446	-	-	-	-	-	-	-
Stage 2	467	502	-	503	529	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018			4.018		2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	250	257	712	240	251	769	1158	-	-	1234	-	-
Stage 1	583	568	-	591	574	-	-	-	-	-	-	-
Stage 2	576	542	-	551	527	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	207	222	712	206	216	769	1158	-	-	1234	-	-
Mov Cap-2 Maneuver	207	222	-	206	216	-	-	-	-	-	-	-
Stage 1	539	530	-	546	530	-	-	-	-	-	-	-
Stage 2	501	501	-	498	492	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	38.9			48.8			1.8			1.1		
HCM LOS	Е			Е								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1158	-	-	226	241	1234	-	-			
HCM Lane V/C Ratio		0.076	-	-	0.551	0.701	0.052	-	-			
HCM Control Delay (s)		8.4	-	-	38.9	48.8	8.1	0	-			
HCM Lane LOS		Α	-	-	Ε	Е	Α	Α	-			
HCM 95th %tile Q(veh)	0.2	-	-	3	4.6	0.2	-	-			

Intersection													
Int Delay, s/veh	45.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ሻ	1			4	7	
Traffic Vol. veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Future Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	<u> </u>	<u> </u>	None	-	_	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	100	-	-	-	-	75	
Veh in Median Storage	е,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	163	14	39	91	13	41	129	281	78	79	343	87	
Major/Minor	Minor2			Minor1			Major1		ľ	Major2			
Conflicting Flow All	1106	1118	343	1149	1166	320	430	0	0	359	0	0	
Stage 1	501	501	-	578	578	-	-	-	-	-	-	-	
Stage 2	605	617	-	571	588	-	_	-	_	-	-	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	188	207	700	176	194	721	1129	-	-	1200	-	-	
Stage 1	552	543	-	501	501	-	-	-	-	-	-	-	
Stage 2	485	481	-	506	496	-	_	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	~ 142	167	700	133	157	721	1129	-	-	1200	-	-	
Mov Cap-2 Maneuver	~ 142	167	-	133	157	-	-	-	-	-	-	-	
Stage 1	489	495	-	444	444	-	-	-	-	-	-	-	
Stage 2	393	426	-	423	452	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	220.8			82.1			2.3			1.3			
HCM LOS	F			F									
				_									
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)		1129	-	-	168	176	1200	-	-				
HCM Lane V/C Ratio		0.114	-	_		0.827		_	-				
HCM Control Delay (s)	8.6	-	-	220.8	82.1	8.2	0	_				
HCM Lane LOS		A	-	-	F	F	A	A	-				
HCM 95th %tile Q(veh	1)	0.4	-	-	12.6	5.7	0.2	-	-				
Notes													
~: Volume exceeds ca	nacity	\$: Da	elay exc	eads 31	ηηe	+· Com	putation	Not Do	fined	*. All r	naior »	olumo in	n platoon
. Volume exceeds ca	ψ. De	ay ext	cc u5 3(005	·. COM	pulation	ואטנ של	mileu	. All I	najoi v	olullie II	ριαισση	

Intersection												
Int Delay, s/veh	12.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL		LDR	VVDL		WDR	NDL Š	IND I	NON	JDL	<u>अज्ञा</u>	JDK 7
Traffic Vol, veh/h	94	↔ 5	13	114	♣ 8	30	79	192	102	58	296	65
Future Vol, veh/h	94	5	13	114	8	30	79	192	102	58	296	65
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	03
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	Olop -	Olop -	None	- Otop	- Clop	None	-	-	None	-	-	None
Storage Length	_	_	-	_	_	-	100	_	-	_	_	75
Veh in Median Storage	e.# -	0	_	_	0	_	-	0	_	_	0	-
Grade, %	-, <i>11</i>	0	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	104	6	14	127	9	33	88	213	113	64	329	72
	101			121		- 00		_10	. 10	- U i	020	, _
Major/Minor	Minor2			Minor1			Major1			Major2		
	924	959	329	949	975	270	401	0	0	326	0	0
Conflicting Flow All		457		446			401		U	320		
Stage 1 Stage 2	457 467	502	-	503	446 529	-	-	-	-	=	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	_	4.12	-	_
Critical Hdwy Stg 1	6.12	5.52	U.ZZ	6.12	5.52	0.22	4.12	_	_	4.12	-	
Critical Hdwy Stg 2	6.12	5.52	_	6.12	5.52	-	-	-	-	-	_	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218		_	2.218	-	_
Pot Cap-1 Maneuver	250	257	712	240	251	769	1158	-	-	1234	_	<u>-</u>
Stage 1	583	568	- 112	591	574	103	1100		_	1204	_	-
Stage 2	576	542		551	527	_		_	_	_	_	_
Platoon blocked, %	310	J72	_	JJ 1	JZI	_		_	_			_
Mov Cap-1 Maneuver	207	222	712	206	216	769	1158	_	_	1234	_	_
Mov Cap-1 Maneuver	207	222	- 12	206	216	- 100	- 100	_	_	-	_	_
Stage 1	539	530	_	546	530	_	_	_	_	_	_	_
Stage 2	501	501	_	498	492	_	-	_	-	_	_	-
Olago Z	301	301		100	102							
Approach	EB			WB			NB			SB		
	38.9			48.8			1.8			1.1		
HCM Control Delay, s HCM LOS	30.9 E			40.0 E			1.0			1.1		
I IOIVI LOG	E											
Minor Lane/Major Mvn	nt	NBL	NBT	NDD	EBLn1V	MRI 51	SBL	SBT	SBR			
	ι		INDI	INDK				SDI	SDR			
Capacity (veh/h)		1158	-	-	226	241	1234	-	-			
HCM Control Doloy (a)		0.076	-		0.551	0.701	0.052	-	-			
HCM Lang LOS		8.4	-	-	38.9	48.8	8.1	0	-			
HCM Of the % tile O(yeh	.\	0.2	-	-	E	4.6	A 0.2	А	-			
HCM 95th %tile Q(veh)	0.2	-	-	3	4.0	0.2	-	-			

4: Averette Road & Access E/Old Pearce Road

Intersection													
Int Delay, s/veh	45.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ř	f)			4	7	
Traffic Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Future Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	_	None	-	_	None	
Storage Length	_	-	-	-	_	-	100	-	_	-	-	75	
Veh in Median Storage	e.# -	0	-	_	0	-	_	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	_	-	0	_	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	163	14	39	91	13	41	129	281	78	79	343	87	
Majau/Minau	Min au			\			14-:1			Maian0			
	Minor2	1110		Minor1	1100		Major1	^		Major2	0	^	
Conflicting Flow All	1106	1118	343	1149	1166	320	430	0	0	359	0	0	
Stage 1	501	501	-	578	578	-	-	-	-	-	-	-	
Stage 2	605	617	-	571	588	- 0.00	- 4.40	-	-	- 4.40	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	188	207	700	176	194	721	1129	-	-	1200	-	-	
Stage 1	552	543	-	501	501	-	-	-	-		-	-	
Stage 2	485	481	-	506	496	-	-	-	-	-	-	-	
Platoon blocked, %	4.40	407	700	400	457	704	4400	-	-	1000	-	-	
Mov Cap-1 Maneuver		167	700	133	157	721	1129	-	-	1200	-	-	
Mov Cap-2 Maneuver		167	-	133	157	-	-	-	-	-	-	-	
Stage 1	489	495	-	444	444	-	-	-	-	-	-	-	
Stage 2	393	426	-	423	452	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	220.8			82.1			2.3			1.3			
HCM LOS	F			F									
Minor Lane/Major Mvm	nt	NBL	NBT	NRR	EBLn1V	VRI n1	SBL	SBT	SBR				
Capacity (veh/h)		1129	-		168	176	1200	- 051	ופט				
HCM Lane V/C Ratio		0.114	_			0.827		_					
HCM Control Delay (s)		8.6	_	_	220.8	82.1	8.2	0					
HCM Control Delay (s) HCM Lane LOS		6.0 A	<u> </u>	-	220.6 F	62.1 F	0.2 A	A	<u>-</u>				
HCM 95th %tile Q(veh)	0.4	-	-	12.6	5.7	0.2	Α	-				
	1	0.4			12.0	5.1	0.2		_				
Notes													
~: Volume exceeds cap	pacity	\$: De	elay exc	eeds 30	00s -	+: Com	putation	Not De	efined	*: All r	najor v	olume ir	n platoon

Intersection												
Int Delay, s/veh	12.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL		LDR	VVDL		WDR	NDL Š	IND I	NON	JDL	<u>अज्ञा</u>	JDK 7
Traffic Vol, veh/h	94	↔ 5	13	114	♣ 8	30	79	192	102	58	296	65
Future Vol, veh/h	94	5	13	114	8	30	79	192	102	58	296	65
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	03
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	Olop -	Olop -	None	- Otop	- Clop	None	-	-	None	-	-	None
Storage Length	_	_	-	_	_	-	100	_	-	_	_	75
Veh in Median Storage	e.# -	0	_	_	0	_	-	0	_	_	0	-
Grade, %	-, <i>11</i>	0	_	_	0	_	_	0	_	_	0	_
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	104	6	14	127	9	33	88	213	113	64	329	72
	101			121		- 00		_10	. 10	- U i	020	, _
Major/Minor	Minor2			Minor1			Major1			Major2		
	924	959	329	949	975	270	401	0	0	326	0	0
Conflicting Flow All		457		446			401		U	320		
Stage 1 Stage 2	457 467	502	-	503	446 529	-	-	-	-	=	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	_	4.12	-	_
Critical Hdwy Stg 1	6.12	5.52	U.ZZ	6.12	5.52	0.22	4.12	_	_	4.12	-	
Critical Hdwy Stg 2	6.12	5.52	_	6.12	5.52	-	-	-	-	-	_	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218		_	2.218	-	_
Pot Cap-1 Maneuver	250	257	712	240	251	769	1158	-	<u>-</u>	1234	_	<u>-</u>
Stage 1	583	568	- 112	591	574	103	1100		_	1204	_	-
Stage 2	576	542		551	527	_		_	_	_	_	_
Platoon blocked, %	310	J72		JJ 1	JZI	_		_	_			_
Mov Cap-1 Maneuver	207	222	712	206	216	769	1158	_	_	1234	_	_
Mov Cap-1 Maneuver	207	222	- 12	206	216	- 100	- 100	_	_	-	_	_
Stage 1	539	530	_	546	530	_	_	_	_	_	_	_
Stage 2	501	501	_	498	492	_	-	_	-	_	_	-
Olago Z	301	301		100	102							
Approach	EB			WB			NB			SB		
	38.9			48.8			1.8			1.1		
HCM Control Delay, s HCM LOS	30.9 E			40.0 E			1.0			1.1		
I IOIVI LOG	E											
Minor Lane/Major Mvn	nt	NBL	NBT	NDD	EBLn1V	MRI 51	SBL	SBT	SBR			
	ι		INDI	INDK				SDI	SDR			
Capacity (veh/h)		1158	-	-	226	241	1234	-	-			
HCM Control Doloy (a)		0.076	-		0.551	0.701	0.052	-	-			
HCM Lang LOS		8.4	-	-	38.9	48.8	8.1	0	-			
HCM Of the % tile O(yeh	.\	0.2	-	-	E	4.6	A 0.2	А	-			
HCM 95th %tile Q(veh)	0.2	-	-	3	4.0	0.2	-	-			

Intersection Int Delay, s/veh	45.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ሻ	f)			4	7	
Traffic Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
uture Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	_ 0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	100	-	None	-	-	None	
Storage Length /eh in Median Storage	-	-	-	-	-	-	100	0	-	-	0	75	
ren in wedian Storage Grade, %	9,# -	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
leavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Nymt Flow	163	14	39	91	13	41	129	281	78	79	343	87	
NVIIICI IOW	100	17	00	91	10	71	123	201	70	13	U + U	O1	
	Minor2	4415		Minor1	4455		Major1			Major2			
Conflicting Flow All	1106	1118	343	1149	1166	320	430	0	0	359	0	0	
Stage 1	501	501	-	578	578	-	-	-	-	-	-	-	
Stage 2	605	617	-	571	588	-	- 4.40	-	-	- 4.40	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	2 240	6.12	5.52	2 240	2 240	-	-	2 240	-	-	
Follow-up Hdwy Pot Cap-1 Maneuver	3.518 188	4.018	3.318 700	3.518 176	4.018 194	3.318 721	2.218 1129	-	-	2.218	-	-	
Stage 1	552	543	700	501	501	121	1129	-	-	1200	-	-	
Stage 2	485	481		506	496	-	-	-	-	-	-	-	
Platoon blocked, %	400	401	_	300	430	_	_	_	_	_		_	
Nov Cap-1 Maneuver	~ 142	167	700	133	157	721	1129	_	_	1200	_	_	
Mov Cap-2 Maneuver		167	-	133	157	-	-	_	_	-	_	_	
Stage 1	489	495	_	444	444	-	-	_	-	_	_	_	
Stage 2	393	426	-	423	452	-	-	-	_	-	_	_	
- 1.1.gu _													
Approach	EB			WB			NB			SB			
HCM Control Delay, s				82.1			2.3			1.3			
HCM LOS	220.0 F			02.1			2.0			1.0			
TOW LOO													
Minor Lane/Major Mvm	nt	NBL	NBT	NDD	EBLn1V	MRI n1	SBL	SBT	SBR				
	IL	1129	INDI	NDR	168	176	1200	ODT	אמט				
Capacity (veh/h) HCM Lane V/C Ratio		0.114	-	-		0.827		-	-				
ICM Control Delay (s)		8.6	-	-	220.8	82.1	8.2	0					
ICM Lane LOS		Α	_		720.0 F	02.1	Α	A	_				
HCM 95th %tile Q(veh)	0.4		_	12.6	5.7	0.2	-	_				
`	,	J. 7			.2.0	0.7	0.2						
Notes		Α. 5.		, .	20			NI C	<u> </u>	4 41			
: Volume exceeds cap	pacity	\$: De	elay exc	eeds 30	JUS -	+: Com	putation	Not De	efined	*: All r	major v	olume ir	n platoon

Intersection												
Int Delay, s/veh	12											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		*	ĵ.			4	7
Traffic Vol, veh/h	94	5	13	114	8	30	78	193	102	58	296	65
Future Vol, veh/h	94	5	13	114	8	30	78	193	102	58	296	65
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	_	None	-	_	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	100	-	-	-	-	75
Veh in Median Storage	. # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	_	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	104	6	14	127	9	33	87	214	113	64	329	72
Major/Minor I	Minor2			Minor1			Major1		ľ	Major2		
Conflicting Flow All	923	958	329	948	974	271	401	0	0	327	0	0
Stage 1	457	457	-	445	445	-	-	-	-	-	-	-
Stage 2	466	501	-	503	529	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	250	257	712	241	252	768	1158	-	-	4000	-	-
Stage 1	583	568	-	592	575	-	-	-	-	-	-	-
Stage 2	577	543	-	551	527	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	208	222	712	207	217	768	1158	-	-	1233	-	-
Mov Cap-2 Maneuver	208	222	-	207	217	-	-	-	-	-	-	-
Stage 1	539	530	-	548	532	-	-	-	-	-	-	-
Stage 2	502	502	-	498	492	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	38.6			47.8			1.7			1.1		
HCM LOS	E			E								
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		1158	-	-	227	243	1233	-	-			
HCM Lane V/C Ratio		0.075	_		0.548			_	_			
HCM Control Delay (s)		8.4	-	_	38.6	47.8	8.1	0	_			
HCM Lane LOS		A	_	_	E	Ε	A	A	_			
HCM 95th %tile Q(veh))	0.2	-	-	3	4.6	0.2	-	-			

Intersection													
Int Delay, s/veh	45.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ች	ĵ.			4	7	
Traffic Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
-uture Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	_	_	-	_	_	-	100	_	-	_	_	75	
Veh in Median Storage	.# -	0	-	-	0	-	-	0	_	_	0	-	
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	163	14	39	91	13	41	129	281	78	79	343	87	
mining i low	100	• • •		O I	.0		120	201	, 0	, 0	0.0	O.	
Major/Minor	Minor2			Minor1			Major1		N	Major2			
		1110	343		1166	320	430	^			0	0	
Conflicting Flow All	1106 501	1118 501		1149 578	578		430	0	0	359	0	0	
Stage 1			-			-	-	-	-	-	-	-	
Stage 2	605	617	-	571	588	-	4.40	-	-	4.40	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	188	207	700	176	194	721	1129	-	-	1200	-	-	
Stage 1	552	543	-	501	501	-	-	-	-	-	-	-	
Stage 2	485	481	-	506	496	-	-	-	-	-	-	-	
Platoon blocked, %	4.40	407	700	400	4	704	1.100	-	-	1000	-	-	
Mov Cap-1 Maneuver		167	700	133	157	721	1129	-	-	1200	-	-	
Mov Cap-2 Maneuver		167	-	133	157	-	-	-	-	-	-	-	
Stage 1	489	495	-	444	444	-	-	-	-	-	-	-	
Stage 2	393	426	-	423	452	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	220.8			82.1			2.3			1.3			
HCM LOS	F			F									
Minor Lane/Major Mvm	nt	NBL	NBT	NRR	EBLn1V	VBI n1	SBL	SBT	SBR				
Capacity (veh/h)		1129	-		168	176	1200	-	-				
HCM Lane V/C Ratio		0.114	_	_	1.29	0.827	0.066	_	<u>-</u>				
HCM Control Delay (s)		8.6	_		220.8	82.1	8.2	0	-				
HCM Lane LOS		0.0 A	-	_	720.0 F	02.1	Α	A	_				
HCM 95th %tile Q(veh)	\	0.4	-	-	12.6	5.7	0.2	- -	-				
)	0.4	_		12.0	5.1	0.2						
`													
Notes ~: Volume exceeds cap			elay exc				putation						n platoon

Intersection													
Int Delay, s/veh	45.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
	EDL		EDI	WDL		WDN			NDI	SDL			
Lane Configurations	4.47	4	25	00	40	27	110	\$	70	74	4	70	
Traffic Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Future Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Conflicting Peds, #/hr	0	0	0	0	0	0	_ 0	0	_ 0	_ 0	0	_ 0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	100	-	-	-	-	75	
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	163	14	39	91	13	41	129	281	78	79	343	87	
Major/Minor	Minor2			Minor1			Major1		ı	Major2			
Conflicting Flow All	1106	1118	343	1149	1166	320	430	0	0	359	0	0	
Stage 1	501	501	-	578	578	-	-	-	-	-	-	-	
Stage 2	605	617	_	571	588	_	_	_	_	_	_	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	_	_	4.12			
→	6.12	5.52	0.22	6.12	5.52	0.22	4.12		-	4.12		-	
Critical Hdwy Stg 1	6.12	5.52		6.12	5.52	-	-	-	<u>-</u>	-	-	-	
Critical Hdwy Stg 2	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Follow-up Hdwy	188	207	700	176	194	721	1129	-	-	1200	-	-	
Pot Cap-1 Maneuver	552	543		501	501	121	1129	-	-	1200	-	-	
Stage 1			-			-	-	-	-	-	-	-	
Stage 2	485	481	-	506	496	-	-	-	-	-	-	-	
Platoon blocked, %	440	407	700	400	457	704	4400	-	-	4000	-	-	
Mov Cap-1 Maneuver		167	700	133	157	721	1129	-	-	1200	-	-	
Mov Cap-2 Maneuver		167	-	133	157	-	-	-	-	-	-	-	
Stage 1	489	495	-	444	444	-	-	-	-	-	-	-	
Stage 2	393	426	-	423	452	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	220.8			82.1			2.3			1.3			
HCM LOS	F			F									
	•			•									
Minor Long/Maior M	.4	NDI	NDT	NDD	CDL ~ 4)	MDL = 4	CDI	CDT	CDD				
Minor Lane/Major Mvm	IL	NBL	NBT	MRK	EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		1129	-	-	168	176	1200	-	-				
HCM Lane V/C Ratio		0.114	-	-		0.827		-	-				
HCM Control Delay (s)		8.6	-	-	220.8	82.1	8.2	0	-				
HCM Lane LOS		A	-	-	F	F	A	Α	-				
HCM 95th %tile Q(veh))	0.4	-	-	12.6	5.7	0.2	-	-				
Notes													
~: Volume exceeds cap	nacity	\$· De	lav evo	eeds 30	10s	+. Com	putation	Not De	efined	*· ΔII r	naior v	olume in	n platoon
. Volumo exceeds ca	pacity	ψ. De	nay ext	0003 31	303	· . Com	patation	NOT DE	Jillieu	. 🗥 🗆	najoi vi	orunic II	piatouri

Intersection													
Int Delay, s/veh	45.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
	EDL		EDI	WDL		WDN			NDI	SDL			
Lane Configurations	4.47	4	25	00	40	27	110	\$	70	74	4	70	
Traffic Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Future Vol, veh/h	147	13	35	82	12	37	116	253	70	71	309	78	
Conflicting Peds, #/hr	0	0	0	0	0	0	_ 0	0	_ 0	_ 0	0	_ 0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	100	-	-	-	-	75	
Veh in Median Storage	e, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2	
Mvmt Flow	163	14	39	91	13	41	129	281	78	79	343	87	
Major/Minor	Minor2			Minor1			Major1		ı	Major2			
Conflicting Flow All	1106	1118	343	1149	1166	320	430	0	0	359	0	0	
Stage 1	501	501	-	578	578	-	-	-	-	-	-	-	
Stage 2	605	617	_	571	588	_	_	_	_	_	_	_	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	_	_	4.12			
→	6.12	5.52	0.22	6.12	5.52	0.22	4.12		-	4.12		-	
Critical Hdwy Stg 1	6.12	5.52		6.12	5.52	-	-	-	<u>-</u>	-	-	-	
Critical Hdwy Stg 2	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Follow-up Hdwy	188	207	700	176	194	721	1129	-	-	1200	-	-	
Pot Cap-1 Maneuver	552	543		501	501	121	1129	-	-	1200	-	-	
Stage 1			-			-	-	-	-	-	-	-	
Stage 2	485	481	-	506	496	-	-	-	-	-	-	-	
Platoon blocked, %	440	407	700	400	457	704	4400	-	-	4000	-	-	
Mov Cap-1 Maneuver		167	700	133	157	721	1129	-	-	1200	-	-	
Mov Cap-2 Maneuver		167	-	133	157	-	-	-	-	-	-	-	
Stage 1	489	495	-	444	444	-	-	-	-	-	-	-	
Stage 2	393	426	-	423	452	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	220.8			82.1			2.3			1.3			
HCM LOS	F			F									
	•			•									
Minor Long/Maior M	.4	NDI	NDT	NDD	FDL 41	MDL = 4	CDI	CDT	CDD				
Minor Lane/Major Mvm	IL	NBL	NBT	MRK	EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		1129	-	-	168	176	1200	-	-				
HCM Lane V/C Ratio		0.114	-	-		0.827		-	-				
HCM Control Delay (s)		8.6	-	-	220.8	82.1	8.2	0	-				
HCM Lane LOS		A	-	-	F	F	A	Α	-				
HCM 95th %tile Q(veh))	0.4	-	-	12.6	5.7	0.2	-	-				
Notes													
~: Volume exceeds cap	nacity	\$· De	lav evo	eeds 30	10s	+. Com	putation	Not De	efined	*· ΔII r	naior v	olume in	n platoon
. Volumo exceeds ca	pacity	ψ. De	nay ext	0003 31	303	· . Com	patation	NOT DE	Jillieu	. 🗥 🗆	najoi vi	orunic II	piatouri

APPENDIX H

CAPACITY ANALYSIS CALCULATIONS AVERETTE ROAD

&

KAVANAUGH ROAD

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		ች	^	₽	
Traffic Vol, veh/h	37	14	9	215	262	26
Future Vol, veh/h	37	14	9	215	262	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage		_	-	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	41	16	10	239	291	29
IVIVIII I IOW	71	10	10	200	231	23
Major/Minor	Minor2		Major1	N	//ajor2	
Conflicting Flow All	565	306	320	0	-	0
Stage 1	306	-	-	-	-	-
Stage 2	259	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	_	_
Follow-up Hdwy		3.318	2.218	_	_	-
Pot Cap-1 Maneuver	486	734	1240	-	-	-
Stage 1	747	_	-	_	_	-
Stage 2	784	-	_	_	_	-
Platoon blocked, %	104			<u>-</u>	_	<u>-</u>
Mov Cap-1 Maneuver	482	734	1240	_	_	_
Mov Cap-1 Maneuver	482	104	1270	_	_	
Stage 1	741	-	_	_	-	<u>-</u>
•	784	_		_		-
Stage 2	704	_	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	12.6		0.3		0	
HCM LOS	В					
		NE	Not	EDL 4	057	000
Minor Lane/Major Mvm	IT .	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1240	-		-	-
		Λ $\Lambda\Lambda\Lambda$		0.107	_	-
HCM Lane V/C Ratio		0.008				
HCM Lane V/C Ratio HCM Control Delay (s)		7.9	-	12.6	-	-
HCM Lane V/C Ratio					-	-

Intersection						
Int Delay, s/veh	1.3					
		EDD	ND	NET	ODT	ODD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		ች	<u></u>	ĵ,	
Traffic Vol, veh/h	23	23	17	225	211	35
Future Vol, veh/h	23	23	17	225	211	35
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	26	19	250	234	39
N 4 = 1 = 11/N 41-1 = 11	N 4:O		NA-!A		4-:0	
	Minor2		Major1		Major2	
Conflicting Flow All	542	254	273	0	-	0
Stage 1	254	-	-	-	-	-
Stage 2	288	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	501	785	1290	-	-	-
Stage 1	788	-	-	-	-	-
Stage 2	761	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	493	785	1290	-	-	-
Mov Cap-2 Maneuver	493	-	_	_	_	-
Stage 1	776	-	-	_	-	-
Stage 2	761	_	_	_	_	_
J. 10 2						
Approach	EB		NB		SB	
HCM Control Delay, s	11.5		0.6		0	
HCM LOS	В					
	nt	NBL	NRT	EBLn1	SBT	SBR
Minor Lane/Major Mym		HUL	וטוו		-	-
Minor Lane/Major Mvm	п.	1200		hilb		-
Capacity (veh/h)		1290	-	000		
Capacity (veh/h) HCM Lane V/C Ratio		0.015	-	0.084	-	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		0.015 7.8	-	0.084 11.5	-	-
Capacity (veh/h) HCM Lane V/C Ratio		0.015	-	0.084	-	

Intersection						
Int Delay, s/veh	1.4					
		EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y	40	ነ	↑	♣	20
Traffic Vol, veh/h	43	16	10	249	304	30
Future Vol, veh/h	43	16	10	249	304	30
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	48	18	11	277	338	33
Major/Minor N	/linor2		Major1	N	/lajor2	
Conflicting Flow All	654	355	371	0	-	0
Stage 1	355	-	-	_	_	-
Stage 2	299	_	_		_	_
Critical Hdwy	6.42	6.22	4.12		_	_
Critical Hdwy Stg 1	5.42	0.22	4.12	_		_
Critical Hdwy Stg 2	5.42	-	-	-		-
		3.318	2 218	-	_	_
Pot Cap-1 Maneuver	431	689	1188		-	-
Stage 1	710	009	1100	-	_	-
Stage 1	752	-	-	-		-
Platoon blocked, %	132	-	-	-	_	-
	107	600	1100	-		-
Mov Cap-1 Maneuver	427	689	1188	-	-	-
Mov Cap-2 Maneuver	427	-	-	-	-	-
Stage 1	704	-	-	-	-	-
Stage 2	752	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	13.8		0.3		0	
					•	
HCM LOS	В					
HCM LOS	В					
		NDI	NDT	EDL 4	ODT	000
Minor Lane/Major Mvmt		NBL		EBLn1	SBT	SBR
Minor Lane/Major Mvmt Capacity (veh/h)		1188	-	476	-	SBR -
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1188 0.009	-	476 0.138	-	SBR - -
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		1188 0.009 8.1	- - -	476 0.138 13.8	- - -	-
Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio		1188 0.009	-	476 0.138 13.8 B	-	-

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
		LDIX				SDIX
Lane Configurations	\	07	\	↑	∱	11
Traffic Vol, veh/h	27	27	20	261	245	41
Future Vol, veh/h	27	27	20	261	245	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	30	30	22	290	272	46
IVIVIIIL I IOW	30	30	22	230	212	40
Major/Minor	Minor2		Major1	N	/lajor2	
Conflicting Flow All	629	295	318	0		0
Stage 1	295	-	-	_	_	_
Stage 2	334	_	_	<u>-</u>	<u>-</u>	<u>-</u>
Critical Hdwy	6.42	6.22	4.12	_	_	_
			4.12			
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy		3.318		-	-	-
Pot Cap-1 Maneuver	446	744	1242	-	-	-
Stage 1	755	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	438	744	1242	-	-	-
Mov Cap-2 Maneuver	438	-	-	-	_	-
Stage 1	741	_	_	_	_	_
Stage 2	725	_	_	_	_	_
Olaye Z	123	-	_	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	12.3		0.6		0	
HCM LOS	В		0.0			
TIOWI LOO						
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1242	-	551	-	
HCM Lane V/C Ratio		0.018	_	0.109	_	_
HCM Control Delay (s)		8	_		_	_
HCM Lane LOS		A		12.3 B	<u>-</u>	_
HCM 95th %tile Q(veh	1	0.1		0.4	_	_
HOW JOHN JOHN WINE WINE	1	0.1		0.4	-	_

1.3 EBL Y 43	EBR	NBL	NBT	SBT	
EBL ¥43	EBR		NBT	CDT	
4 3	LDK		INDI		CDD
43		_			SBR
	16	ነ	220	202	30
40	16	10	330	393	
43	16	10	330	393	30
. 0	0	0	0	0	0
Stop	Stop	Free	Free	Free	Free
-	None	450	None	-	
				-	-
	-				-
	-	-			-
					90
					2
48	18	11	367	437	33
Minor2		Maior1	N	/laior2	
					0
					0
	-	-		-	-
	-	- 4.0	_		-
	6.22	4.12	-	-	-
	-		-	-	-
	-	-	-	-	-
			-	-	-
	606	1092	-	-	-
	-	-	-	-	
685	-	-	-	-	-
			-	-	-
r 331	606	1092	-	-	-
	-	-	-	-	-
634	-	-	-	_	-
	_	-	-	-	-
16.5		0.2		0	
С					
mt	NIDI	NDT	EDI n1	CDT	CDD
IIIL				SBI	SBR
	1092		* * * * * * * * * * * * * * * * * * * *	-	-
	0.01	-	0.174	-	-
	0.0		40 =		
s)	8.3	-	16.5	-	-
	8.3 A 0	-	16.5 C 0.6	-	-
	0 9e, # 0 0 90 2 48 Minor2 843 454 389 6.42 5.42 3.518 334 640 685 r 331 634 685 EB 5 16.5	0 - ge, # 0 - 90 90 2 2 48 18 Minor2	0 - 150 ge, # 0 90 90 90 2 2 2 2 48 18 11 Minor2 Major1 843 454 470 454 389 6.42 6.22 4.12 5.42 3.518 3.318 2.218 334 606 1092 640 685 r 331 606 1092 r 331 r 331 606 1092 r 331 634 685 EB NB s 16.5 0.2 C	0 - 150 - ge, # 0 0 90 90 90 90 2 2 2 2 2 48 18 11 367 Minor2 Major1 N 843 454 470 0 454 389 5.42 5.42 3.518 3.318 2.218 - 334 606 1092 - 640 685 7 331 606 1092 - 7 331 634 685 EB NB 6 16.5 0.2 C	0 - 150

Intersection						
Int Delay, s/veh	1.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥		ነ		₽	
Traffic Vol, veh/h	27	27	20	412	386	41
Future Vol, veh/h	27	27	20	412	386	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage		-	_	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	30	30	22	458	429	46
WWW.	- 30	- 00	LL	100	723	70
Major/Minor	Minor2	l	Major1	N	Major2	
Conflicting Flow All	954	452	475	0	-	0
Stage 1	452	-	_	-	-	-
Stage 2	502	_	_	_	_	_
Critical Hdwy	6.42	6.22	4.12	_	-	_
Critical Hdwy Stg 1	5.42	-	2	_	_	_
Critical Hdwy Stg 2	5.42					
Follow-up Hdwy		3.318	2 212		_	
Pot Cap-1 Maneuver	287	608	1087	-	-	-
	641	000	1007		-	-
Stage 1		-	-	-	-	-
Stage 2	608	-	-	-	-	-
Platoon blocked, %		000	100=	-	-	-
Mov Cap-1 Maneuver	281	608	1087	-	-	-
Mov Cap-2 Maneuver	281	-	-	-	-	-
Stage 1	628	-	-	-	-	-
Stage 2	608	-	-	-	-	-
Annragah	FD		ND		CD	
Approach	EB		NB		SB	
HCM Control Delay, s	16.1		0.4		0	
HCM LOS	С					
Minor Lane/Major Mvn	nt	NBL	NRT	EBLn1	SBT	SBR
Capacity (veh/h)		1087	-		ODI	ODIN
HCM Lane V/C Ratio		0.02		0.156	-	-
HCM Control Delay (s						-
HCM Lane LOS		8.4	-		-	-
	\	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	-	-

APPENDIX I

CAPACITY ANALYSIS CALCULATIONS WAIT AVENUE

&

ACCESS A

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u></u>			4	¥	TIDIT.
Traffic Vol, veh/h	732	4	4	1219	4	4
Future Vol, veh/h	732	4	4	1219	4	4
	0	0	0	0	0	0
Conflicting Peds, #/hr						
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	813	4	4	1354	4	4
N.A. 1. (N.A.)			4 : 0			
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	817	0	2177	815
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	1362	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	_	_	-	_	5.42	_
Follow-up Hdwy	_	_	2.218	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	811	_	51	377
Stage 1	_	_	-	_	435	-
Stage 2				_	238	_
	_	_	_		230	_
Platoon blocked, %	-	-	044	-	Ε0.	277
Mov Cap-1 Maneuver	-	-	811	-	50	377
Mov Cap-2 Maneuver	-	-	-	-	50	-
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	233	-
Approach	EB		WB		NB	
			0			
HCM Control Delay, s	0		U		50.5	
HCM LOS					F	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	<u> </u>	88	-	-	811	-
HCM Lane V/C Ratio		0.101			0.005	-
				-	9.5	
HCM Control Delay (s)		50.5	-	-		0
HCM Lane LOS		F	-	-	A	Α
HCM 95th %tile Q(veh)		0.3	-	-	0	-

Intersection						
Int Delay, s/veh	0.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽			र्भ	W	
•	1155	4	4	922	4	4
Future Vol, veh/h	1155	4	4	922	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	_	0	0	-
Grade, %	0	-	_	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
	1283	4	4	1024	4	4
WWW.CT IOW	1200	•	•	1021	•	•
	ajor1	ı	Major2		Minor1	
Conflicting Flow All	0	0	1287	0	2317	1285
Stage 1	-	-	-	-	1285	-
Stage 2	-	-	-	-	1032	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	_	-	-	5.42	-
Critical Hdwy Stg 2	_	_	_	-	5.42	_
Follow-up Hdwy	_	_	2.218	_		3.318
Pot Cap-1 Maneuver	_	_	539	_	42	201
Stage 1	_	_	-	_	260	-
Stage 2	_		_	_	344	_
Platoon blocked, %		_		_	U 11	
Mov Cap-1 Maneuver	-	-	539	-	41	201
			559		41	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	260	-
Stage 2	-	-	-	-	338	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		65.7	
HCM LOS	- 0		J. 1		03.7 F	
TIOWI LOO					, I	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		68	-	-	539	-
HCM Lane V/C Ratio		0.131	-	-	0.008	-
HCM Control Delay (s)		65.7	-	-		0
HCM Lane LOS		F	-	_	В	A
HCM 95th %tile Q(veh)		0.4	_	-	0	-
3041 /0410 ((1011)		V. I				

Intersection						
Int Delay, s/veh	0.2					
		EDD	WDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĵ.			र्स	¥	
Traffic Vol, veh/h	732	4	4	1219	4	4
Future Vol, veh/h	732	4	4	1219	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	813	4	4	1354	4	4
IVIVIIIL I IOVV	010	7	7	1004	7	7
Major/Minor N	1ajor1	1	Major2		Minor1	
Conflicting Flow All	0	0	817	0	2177	815
Stage 1	-	-	-	-	815	-
Stage 2	_	_	_	_	1362	_
Critical Hdwy		_	4.12	_	6.42	6.22
Critical Hdwy Stg 1			4.12		5.42	0.22
Critical Hdwy Stg 2	-	_		-	5.42	-
		-				
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver	-	-	811	-	51	377
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	238	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	811	-	50	377
Mov Cap-2 Maneuver	-	-	-	-	50	-
Stage 1	-	-	-	-	435	-
Stage 2	_	_	_	-	233	-
J.W. 2					_00	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		50.5	
HCM LOS					F	
						14/5-
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		88	-	-	811	-
HCM Lane V/C Ratio		0.101	-	-	0.005	-
HCM Control Delay (s)		50.5	-	-	9.5	0
HCM Lane LOS		F	-	-	Α	Α
HCM 95th %tile Q(veh)		0.3	-	-	0	-

Intersection						
Int Delay, s/veh	0.3					
	ГРТ	FDD	WDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	- ∱			4	Y	
Traffic Vol, veh/h	1155	4	4	922	4	4
Future Vol, veh/h	1155	4	4	922	4	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-		0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1283	4	4	1024	4	4
	_55					
	1ajor1		Major2		Minor1	
Conflicting Flow All	0	0	1287	0	2317	1285
Stage 1	-	-	-	-	1285	-
Stage 2	-	-	-	-	1032	-
Critical Hdwy	-	_	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	_	_	-	_	5.42	-
Follow-up Hdwy	_	-	2.218		3.518	
Pot Cap-1 Maneuver	_	_	539	_	42	201
Stage 1	<u> </u>	_	-	<u>-</u>	260	-
Stage 1		_		-	344	_
Platoon blocked, %	-	-			544	
			E20	-	11	201
Mov Cap-1 Maneuver	-	-	539	-	41	
Mov Cap-2 Maneuver	-	-	-	-	41	-
Stage 1	-	-	-	-	260	-
Stage 2	-	-	-	-	338	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		65.7	
	U		U. I		65.7 F	
HCM LOS					۲	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		68	-	-	539	-
HCM Lane V/C Ratio		0.131	-	-	0.008	-
HCM Control Delay (s)		65.7	-	_	11.7	0
HCM Lane LOS		F	_	_	В	A
HCM 95th %tile Q(veh)		0.4	_	_	0	-
		√. τ			J	

Intersection						
Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1→	LDIX	VVDL	<u>₩</u>	NDL	7
Traffic Vol, veh/h	732	4	0	1221	0	4
Future Vol, veh/h	732	4	0	1221	0	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	Stop -	
Storage Length	_	NOHE -	_	-	_	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	# 0		-	0	0	-
		-				
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	813	4	0	1357	0	4
Major/Minor N	1ajor1	N	//ajor2	N	Minor1	
Conflicting Flow All	0	0	-	-	-	815
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	_	-	_	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	_	_	_	-	_	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	377
Stage 1	_	_	0	_	0	-
Stage 2	_	_	0	_	0	-
Platoon blocked, %	_	_	- 0	_	- 0	
Mov Cap-1 Maneuver	_	_	_		_	377
Mov Cap-1 Maneuver	_		_	-	_	- 311
Stage 1		-	-	-	-	
	_		-	-	-	
Stage 2	_	-	_	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		14.7	
HCM LOS					В	
Minor Long/Maior March		JDI 4	CDT	EDD	WDT	
Minor Lane/Major Mvmt	. [NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		377	-	-	-	
HCM Lane V/C Ratio		0.012	-	-	-	
HCM Control Delay (s)		14.7	-	-	-	
HCM Lane LOS		В	-	-	-	
HCM 95th %tile Q(veh)		0	-	-	-	

Intersection						
Int Delay, s/veh	0.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1>	רטוע	TTDL	<u>₩</u>	HUL	TVDIX
Traffic Vol, veh/h	1155	5	0	927	0	6
Future Vol, veh/h	1155	5	0	927	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	
Storage Length	_	-	_	-	_	0
Veh in Median Storage		_	_	0	0	-
Grade, %	0	_	<u>-</u>	0	0	_
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1283	6	0	1030	0	7
WWITH FIOW	1203	U	U	1030	U	ı
Major/Minor I	Major1	N	Major2	N	/linor1	
Conflicting Flow All	0	0	-	-	-	1286
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	_	-	_	-	_	-
Critical Hdwy Stg 2	-	-	-	-	_	-
Follow-up Hdwy	_	-	_	-	_	3.318
Pot Cap-1 Maneuver	_	_	0	-	0	201
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	_	_	_	201
Mov Cap-1 Maneuver	<u>-</u>	_	<u>-</u>	<u>-</u>	_	- 201
Stage 1				_		
Stage 2	_		_	-		
Staye 2	<u>-</u>	-	<u>-</u>	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		23.5	
HCM LOS					С	
Minor Long (Marie a Ma	4	VIDL 4	EDT	EDD	MDT	
Minor Lane/Major Mvm	it f	VBLn1	EBT	EBR	WBT	
Capacity (veh/h)		201	-	-	-	
HCM Lane V/C Ratio		0.033	-	-	-	
HCM Control Delay (s)		23.5	-	-	-	
HCM Lane LOS		С	-	-	-	
HCM 95th %tile Q(veh)		0.1	-	-	-	

Intersection						
Int Delay, s/veh	0					
			WDI	WDT	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f)			↑		7
Traffic Vol, veh/h	732	4	0	1221	0	4
Future Vol, veh/h	732	4	0	1221	0	4
Conflicting Peds, #/hr	_ 0	_ 0	0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	813	4	0	1357	0	4
Major/Minor Major/Minor	ajor1	N	//ajor2	N	/linor1	
						815
Conflicting Flow All	0	0	-	-	-	015
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-		3.318
Pot Cap-1 Maneuver	-	-	0	-	0	377
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	377
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Annroach	ED		WD		ND	
Approach Dalassa	EB		WB		NB	
HCM Control Delay, s	0		0		14.7	
HCM LOS					В	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		377	_	_	_	
HCM Lane V/C Ratio		0.012	_	_	_	
HCM Control Delay (s)		14.7	_	_	_	
HCM Lane LOS		В	_	_	_	
HCM 95th %tile Q(veh)		0	_	_	_	
		U				

Intersection Int Delay, s/veh Movement Lane Configurations Traffic Vol, veh/h	0.4					
Movement Lane Configurations	0.1					
Lane Configurations		EDD	WDI	WDT	NDI	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Traffic Vol. Veh/h	1455	-		†	^	
	1155	5	0	927	0	6
Future Vol, veh/h	1155	5	0	927	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1283	6	0	1030	0	7
Major/Minor	laier1		/oicr2	A	liner1	
	Major1		//ajor2		/linor1	4000
Conflicting Flow All	0	0	-	-	-	1286
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	201
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	201
Mov Cap-2 Maneuver	_	-	-	-	_	_
Stage 1	-	-	-	-	-	_
Stage 2	_	_	_	_	_	_
Clago Z						
			1A/D		NB	
Approach	EB		WB			
Approach HCM Control Delay, s	EB 0		0		23.5	
HCM Control Delay, s					23.5	
HCM Control Delay, s HCM LOS	0	NRI n1	0	EDD	23.5 C	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm	0	NBLn1		EBR	23.5 C	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h)	0	201	0 EBT	-	23.5 C WBT	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	0	201 0.033	0 EBT -	-	23.5 C WBT -	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	0	201 0.033 23.5	0 EBT - -	- - -	23.5 C WBT - -	
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	0 t 1	201 0.033	0 EBT -	-	23.5 C WBT -	

APPENDIX J

CAPACITY ANALYSIS CALCULATIONS WAIT AVENUE

&

ACCESS C

Intersection						
Int Delay, s/veh	1.3					
		EDD	WDL	WOT	NDL	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	^	7	<u> </u>	↑		7
Traffic Vol, veh/h	724	51	58	1143	0	115
Future Vol, veh/h	724	51	58	1143	0	115
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	50	175	-	-	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	804	57	64	1270	0	128
		_				
	1ajor1		Major2		/linor1	
Conflicting Flow All	0	0	861	0	-	804
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	_	-	3.318
Pot Cap-1 Maneuver	_	-	781	-	0	383
Stage 1	_	_	_	_	0	-
Stage 2	-	_	-	-	0	-
Platoon blocked, %	_	_		_		
Mov Cap-1 Maneuver	_	_	781	_	_	383
Mov Cap-1 Maneuver	_	_	701	<u>-</u>	_	-
Stage 1	_	-	_	_	_	<u>-</u>
•	-	•	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		19	
HCM LOS					C	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		383	-	-	781	-
HCM Lane V/C Ratio		0.334	-	-	0.083	-
HCM Control Delay (s)		19	-	-	10	-
HCM Lane LOS		С	-	-	В	-
HCM 95th %tile Q(veh)		1.4	-	-	0.3	-
., - /						

Intersection								
Int Delay, s/veh	12							
		E00	14/51	MOT	ND	NDD		
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	†	7	ች	†		7		
Traffic Vol, veh/h	1047	102	90	879	0	226		
Future Vol, veh/h	1047	102	90	879	0	226		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-			None	-			
Storage Length	-	50	175	-	-	0		
Veh in Median Storag		-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	90	90	90	90	90	90		
Heavy Vehicles, %	2	2	2	2	2	2		
Mvmt Flow	1163	113	100	977	0	251		
Major/Minor	Major1		Major2		Minor1			
Conflicting Flow All	0	0	1276	0	-	1163		
Stage 1	-	-	1210	-	_	-		
Stage 2	_	_	_	<u> </u>	<u>-</u>	_		
Critical Hdwy		_	4.12	_		6.22		
Critical Hdwy Stg 1	_	_	7.12	_	_	- 0.22		
Critical Hdwy Stg 2			_		_	-		
Follow-up Hdwy	_	_	2.218	_	_	3.318		
Pot Cap-1 Maneuver			544			~ 237		
Stage 1	_	_	-	<u> </u>	0	201		
Stage 2	<u>-</u>		_		0	_		
Platoon blocked, %	_	_		_	U			
Mov Cap-1 Maneuve			544		-	~ 237		
Mov Cap-1 Maneuve		_	- 344	<u> </u>	_	~ 231		
Stage 1		-	_	<u>-</u>		-		
Stage 2	-	_	_	-	_	-		
Glaye Z		_	_	<u>-</u>	_			
Approach	EB		WB		NB			
HCM Control Delay, s	s 0		1.2		119.7			
HCM LOS					F			
Minor Lane/Major Mv	mt	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		237	_	_	544	-		
HCM Lane V/C Ratio		1.06	-	_	0.184	-		
HCM Control Delay (s		119.7	-	-		-		
HCM Lane LOS	,	F	-	-	В	-		
HCM 95th %tile Q(ve	h)	10.6	-	-	0.7	-		
`								
Notes	'	Φ.D.	Jan		10-	0	utation Nat D. Co. 1	* All
~: Volume exceeds c	apacity	\$: De	elay exc	eeds 30	JUS	+: Comp	outation Not Defined	*: All major volume in platoon

Intersection						
Int Delay, s/veh	1.3					
		EDE	MD	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		7	<u>ነ</u>	↑		7
Traffic Vol, veh/h	724	51	58	1143	0	115
Future Vol, veh/h	724	51	58	1143	0	115
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	50	175	-	_	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	_	_	0	0	_
	90			90		90
Peak Hour Factor		90	90		90	
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	804	57	64	1270	0	128
Major/Minor M	loior1		Major	N	Minor1	
	lajor1		Major2			004
Conflicting Flow All	0	0	861	0	-	804
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	_	_	781	_	0	383
Stage 1	_	_	-	_	0	-
Stage 2	_	_	_	_	0	_
Platoon blocked, %			_		U	_
	-	-	704	-		202
Mov Cap-1 Maneuver	-	-	781	-	-	383
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Annragah	ED		MD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		19	
HCM LOS					С	
Minor Long/Major Maret		IDI -1	EDT	EDD	WDI	WDT
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		383	-	-	781	-
HCM Lane V/C Ratio		0.334	-	-	0.083	-
HCM Control Delay (s)		19	-	-	10	-
HCM Lane LOS		С	-	-	В	-
HCM 95th %tile Q(veh)		1.4	-	-	0.3	-
,						

Intersection									
Int Delay, s/veh	12								
Movement	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations	†	7	ች	↑		7			
Traffic Vol, veh/h	1047	102	90	879	0	226			
Future Vol, veh/h	1047	102	90	879	0	226			
Conflicting Peds, #/hr		0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	-	None	-	None	-	None			
Storage Length	_	50	175	-	_	0			
Veh in Median Storag	e,# 0	-	-	0	0	-			
Grade, %	0	_	-	0	0	_			
Peak Hour Factor	90	90	90	90	90	90			
Heavy Vehicles, %	2	2	2	2	2	2			
Mymt Flow	1163	113	100	977	0	251			
Major/Minor	Major1		Major2	N	Minor1				
Conflicting Flow All	0		1276	0	-	1163			
Stage 1	-	-	1270	-	_	-			
Stage 2	_	_	_	_	_	_			
Critical Hdwy		-	4.12	_	_	6.22			
Critical Hdwy Stg 1	_	_	4.12	<u> </u>	_	0.22			
Critical Hdwy Stg 2	_	_	_	_	_	_			
Follow-up Hdwy	_	_	2.218	<u>-</u>		3.318			
Pot Cap-1 Maneuver	_	_	544	_		~ 237			
Stage 1	_	_	- TTU	_	0	201			
Stage 2		_	_	_	0	_			
Platoon blocked, %	_	_		<u>-</u>	- 0				
Mov Cap-1 Maneuver		_	544	_	_	~ 237			
Mov Cap-1 Maneuver		_	J 	<u>-</u>	_	201			
Stage 1		_	_	_	_	_			
Stage 2	_	_	_	<u>-</u>	_	_			
Oldgo Z									
Approach	EB		WB		NB				
HCM Control Delay, s			1.2		119.7				
HCM LOS					F				
Minor Lane/Major Mvi	mt I	NBLn1	EBT	EBR	WBL	WBT			
Capacity (veh/h)		237		-	544	-			
HCM Lane V/C Ratio		1.06	_		0.184	_			
HCM Control Delay (s	3)	119.7	_	_	13.1	-			
HCM Lane LOS	7	F	_	_	В	_			
HCM 95th %tile Q(vel	h)	10.6	-	-	0.7	-			
`	/								
Notes	anasit.	ф. D-	day, ay-	and- 20)O ₂	0	autotion Not Defined	*. All major values in	lotosz
~: Volume exceeds ca	apacity	φ: D6	ay exc	eeds 30	JUS .	+: Com	outation Not Defined	*: All major volume in p	เสเบอก

Intersection						
Int Delay, s/veh	1					
	•	EDD	WDI	WDT	NDI	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	704	7	^	1001	^	445
Traffic Vol, veh/h	724	51	0	1201	0	115
Future Vol, veh/h	724	51	0	1201	0	115
Conflicting Peds, #/hr	_ 0	_ 0	_ 0	_ 0	0	0
3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	50	-	-	-	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	804	57	0	1334	0	128
Major/Minor Ma	ajor1		/lajor2		/linor1	
	_					004
Conflicting Flow All	0	0	-	-	-	804
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-		3.318
Pot Cap-1 Maneuver	-	-	0	-	0	383
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	383
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Ŭ						
A	ED		MD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		19	
HCM LOS					С	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		383	_	_	_	
HCM Lane V/C Ratio		0.334	_	_	_	
HCM Control Delay (s)		19	_	_	_	
HCM Lane LOS		C	_	_	_	
HCM 95th %tile Q(veh)		1.4	_	_	_	
		1.7				

Intersection								
Int Delay, s/veh	11.5							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
ane Configurations	†	7				1		
Fraffic Vol, veh/h	1047	102	0	969	0	226		
uture Vol, veh/h	1047	102	0	969	0	226		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	_	None	-	None	-	None		
Storage Length	_	50	-	-	-	0		
/eh in Median Storag	ie.# 0	_	-	0	0	-		
Grade, %	0	_	-	0	0	_		
Peak Hour Factor	90	90	90	90	90	90		
leavy Vehicles, %	2	2	2	2	2	2		
1vmt Flow	1163	113	0	1077	0	251		
Major/Minor	Major1	N	Major2	N	/linor1			
	Major1					1163		
Conflicting Flow All	0	0	-	-	-			
Stage 1	-	-	-	-	-	-		
Stage 2	-	-	-	-	-	6.00		
ritical Hdwy	-	-	-	-	-	6.22		
ritical Hdwy Stg 1	-	-	-	-	-	-		
ritical Hdwy Stg 2	-	-	-	-	-	2 240		
ollow-up Hdwy	-	-	-	-		3.318		
ot Cap-1 Maneuver	-	-	0	-		~ 237		
Stage 1	-	-	0	-	0	-		
Stage 2	-	-	U	-	0	-		
Platoon blocked, %	-	-		-		- 027		
Nov Cap-1 Maneuver		-	-	-		~ 237		
Nov Cap-2 Maneuver		-	-	-	-	-		
Stage 1	-	-	-	-	-	-		
Stage 2	-	-	-	-	-	-		
pproach	EB		WB		NB			
ICM Control Delay, s	0		0		119.7			
ICM LOS					F			
linor Lane/Major Mv	mt l	NBLn1	EBT	EBR	WBT			
apacity (veh/h)		237	-	-	-			
CM Lane V/C Ratio		1.06	-	-	-			
CM Control Delay (s	s)	119.7	-	-	-			
CM Lane LOS		F	-	-	-			
CM 95th %tile Q(ve	h)	10.6	-	-	-			
otes								
Volume exceeds ca	anacity	\$· Do	lav eve	eeds 30)Os -	+: Comr	outation Not Defined	*: All major volume in platoon
. Volume exceeds Co	apacity	ψ. De	idy CAU	ceus Jl	103	· . Comp	Julation Not Delined	. All major volume in piatoon

Intersection						
Int Delay, s/veh	1					
	FDT	EDD	MAID	MOT	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		- 7				7
Traffic Vol, veh/h	724	51	0	1201	0	115
Future Vol, veh/h	724	51	0	1201	0	115
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	50	-	-	-	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	804	57	0	1334	0	128
IVIVIIIL FIOW	004	31	U	1554	U	120
Major/Minor N	1ajor1	N	//ajor2	N	/linor1	
Conflicting Flow All	0	0	-	_	_	804
Stage 1	-	-	_	_	_	-
Stage 2	_	_	_	_	_	_
Critical Hdwy		-		-		6.22
			-		-	
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	383
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	383
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	_	-	-	-	-	-
Stage 2	_	_	_	_	_	_
Jugo 2						
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		19	
HCM LOS					С	
					14/5=	
Minor Lane/Major Mvmt		NBLn1	EBT	EBR	WBT	
Capacity (veh/h)		383	-	-	-	
HCM Lane V/C Ratio		0.334	-	-	-	
HCM Control Delay (s)		19	-	-	-	
HCM Lane LOS		С	-	-	-	
HCM 95th %tile Q(veh)		1.4	-	-	-	

Intersection								
Int Delay, s/veh	11.5							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
ane Configurations	†	7				1		
Fraffic Vol, veh/h	1047	102	0	969	0	226		
uture Vol, veh/h	1047	102	0	969	0	226		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	_	None	-	None	-	None		
Storage Length	_	50	-	-	-	0		
/eh in Median Storag	ie.# 0	_	-	0	0	-		
Grade, %	0	_	-	0	0	_		
Peak Hour Factor	90	90	90	90	90	90		
leavy Vehicles, %	2	2	2	2	2	2		
1vmt Flow	1163	113	0	1077	0	251		
Major/Minor	Major1	N	Major2	N	/linor1			
	Major1					1163		
Conflicting Flow All	0	0	-	-	-			
Stage 1	-	-	-	-	-	-		
Stage 2	-	-	-	-	-	6.00		
ritical Hdwy	-	-	-	-	-	6.22		
ritical Hdwy Stg 1	-	-	-	-	-	-		
ritical Hdwy Stg 2	-	-	-	-	-	2 240		
ollow-up Hdwy	-	-	-	-		3.318		
ot Cap-1 Maneuver	-	-	0	-		~ 237		
Stage 1	-	-	0	-	0	-		
Stage 2	-	-	U	-	0	-		
Platoon blocked, %	-	-		-		- 027		
Nov Cap-1 Maneuver		-	-	-		~ 237		
Nov Cap-2 Maneuver		-	-	-	-	-		
Stage 1	-	-	-	-	-	-		
Stage 2	-	-	-	-	-	-		
pproach	EB		WB		NB			
ICM Control Delay, s	0		0		119.7			
ICM LOS					F			
linor Lane/Major Mv	mt l	NBLn1	EBT	EBR	WBT			
apacity (veh/h)		237	-	-	-			
CM Lane V/C Ratio		1.06	-	-	-			
CM Control Delay (s	s)	119.7	-	-	-			
CM Lane LOS		F	-	-	-			
CM 95th %tile Q(ve	h)	10.6	-	-	-			
otes								
Volume exceeds ca	anacity	\$· Do	lav eve	eeds 30)Os -	+. Comr	outation Not Defined	*: All major volume in platoon
. Volume exceeds Co	apacity	ψ. De	idy CAU	ceus Jl	103	· . Comp	Julation Not Delined	. All major volume in piatoon

APPENDIX K

CAPACITY ANALYSIS CALCULATIONS WAIT AVENUE

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	→	\rightarrow	•	←	•	~	
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	7					
Traffic Volume (veh/h)	768	49	0	1201	0	0	
Future Volume (Veh/h)	768	49	0	1201	0	0	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	853	54	0	1334	0	0	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)							
Upstream signal (ft)				476			
pX, platoon unblocked					0.47		
vC, conflicting volume			907		2187	853	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol			907		2946	853	
tC, single (s)			4.1		6.4	6.2	
tC, 2 stage (s)							
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	100	
cM capacity (veh/h)			750		8	359	
Direction, Lane #	EB 1	EB 2	WB 1				
Volume Total	853	54	1334				
Volume Left	0	0	0				
Volume Right	0	54	0				
cSH	1700	1700	1700				
Volume to Capacity	0.50	0.03	0.78				
Queue Length 95th (ft)	0	0	0				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS							
Approach Delay (s)	0.0		0.0				
Approach LOS							
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliza	tion		66.5%	IC	U Level o	f Service	
Analysis Period (min)			15				

	-	\rightarrow	•	←	4	_	
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	7					
Traffic Volume (veh/h)	1126	94	0	969	0	0	
Future Volume (Veh/h)	1126	94	0	969	0	0	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	1251	104	0	1077	0	0	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)							
Upstream signal (ft)				476			
pX, platoon unblocked					0.66		
vC, conflicting volume			1355		2328	1251	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol			1355		2757	1251	
tC, single (s)			4.1		6.4	6.2	
tC, 2 stage (s)							
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	100	
cM capacity (veh/h)			508		14	211	
Direction, Lane #	EB 1	EB 2	WB 1				
Volume Total	1251	104	1077				
Volume Left	0	0	0				
Volume Right	0	104	0				
cSH	1700	1700	1700				
Volume to Capacity	0.74	0.06	0.63				
Queue Length 95th (ft)	0.74	0.00	0.00				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS	0.0	3.0	0.0				
Approach Delay (s)	0.0		0.0				
Approach LOS	<u> </u>		0.0				
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliz	ation		62.6%	IC	U Level o	of Service	
Analysis Period (min)			15	10	. 5 251010	55. 1100	
raidiyələ i Grida (IIIII)			10				

	-	\rightarrow	•	←	1	~
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	†	7				
Traffic Volume (veh/h)	768	49	0	1201	0	0
Future Volume (Veh/h)	768	49	0	1201	0	0
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	853	54	0	1334	0	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				476		
pX, platoon unblocked					0.37	
vC, conflicting volume			907		2187	853
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			907		3350	853
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			750		3	359
Direction, Lane #	EB 1	EB 2	WB 1			
Volume Total	853	54	1334			
Volume Left	0	0	0			
Volume Right	0	54	0			
cSH	1700	1700	1700			
Volume to Capacity	0.50	0.03	0.78			
Queue Length 95th (ft)	0.00	0	00			
Control Delay (s)	0.0	0.0	0.0			
Lane LOS	3.0		3.3			
Approach Delay (s)	0.0		0.0			
Approach LOS						
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliza	ation		66.5%	IC	U Level c	of Service
Analysis Period (min)			15			
ruialyolo i orloa (illiil)			10			

	-	\rightarrow	•	←	1	~	
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	7					
Traffic Volume (veh/h)	1126	94	0	969	0	0	
Future Volume (Veh/h)	1126	94	0	969	0	0	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	1251	104	0	1077	0	0	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)							
Upstream signal (ft)				476			
pX, platoon unblocked					0.65		
vC, conflicting volume			1355		2328	1251	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol			1355		2782	1251	
tC, single (s)			4.1		6.4	6.2	
tC, 2 stage (s)							
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	100	
cM capacity (veh/h)			508		13	211	
Direction, Lane #	EB 1	EB 2	WB 1				
Volume Total	1251	104	1077				
Volume Left	0	0	0				
Volume Right	0	104	0				
cSH	1700	1700	1700				
Volume to Capacity	0.74	0.06	0.63				
Queue Length 95th (ft)	0.74	0.00	0.00				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS	0.0	0.0	0.0				
Approach Delay (s)	0.0		0.0				
Approach LOS	0.0		0.0				
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliz	zation		62.6%	ıc	CU Level o	of Service	
Analysis Period (min)	-40011		15	10	O LOVOI C	71 OCT VICE	
Analysis Fellou (IIIIII)			13				

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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	7					
Traffic Volume (veh/h)	768	49	0	1201	0	0	
Future Volume (Veh/h)	768	49	0	1201	0	0	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	853	54	0	1334	0	0	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)							
Upstream signal (ft)				476			
pX, platoon unblocked					0.48		
vC, conflicting volume			907		2187	853	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol			907		2925	853	
tC, single (s)			4.1		6.4	6.2	
tC, 2 stage (s)							
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	100	
cM capacity (veh/h)			750		8	359	
Direction, Lane #	EB 1	EB 2	WB 1				
Volume Total	853	54	1334				
Volume Left	0	0	0				
Volume Right	0	54	0				
cSH	1700	1700	1700				
Volume to Capacity	0.50	0.03	0.78				
Queue Length 95th (ft)	0	0	0				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS							
Approach Delay (s)	0.0		0.0				
Approach LOS							
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliza	tion		66.5%	IC	U Level o	f Service	
Analysis Period (min)			15				

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Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	†	7					
Traffic Volume (veh/h)	1126	94	0	969	0	0	
Future Volume (Veh/h)	1126	94	0	969	0	0	
Sign Control	Free			Free	Stop		
Grade	0%			0%	0%		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	
Hourly flow rate (vph)	1251	104	0	1077	0	0	
Pedestrians							
Lane Width (ft)							
Walking Speed (ft/s)							
Percent Blockage							
Right turn flare (veh)							
Median type	None			None			
Median storage veh)				2			
Upstream signal (ft)				476			
pX, platoon unblocked					0.66		
vC, conflicting volume			1355		2328	1251	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol							
vCu, unblocked vol			1355		2757	1251	
tC, single (s)			4.1		6.4	6.2	
tC, 2 stage (s)							
tF (s)			2.2		3.5	3.3	
p0 queue free %			100		100	100	
cM capacity (veh/h)			508		14	211	
Direction, Lane #	EB 1	EB 2	WB 1				
Volume Total	1251	104	1077				
Volume Total Volume Left		0					
	0	104	0				
Volume Right	1700		0 1700				
Valume to Canacity		1700					
Volume to Capacity	0.74	0.06	0.63				
Queue Length 95th (ft)	0	0	0				
Control Delay (s)	0.0	0.0	0.0				
Lane LOS	2.2		0.0				
Approach Delay (s)	0.0		0.0				
Approach LOS							
Intersection Summary							
Average Delay			0.0				
Intersection Capacity Utiliza	ation		62.6%	IC	U Level c	f Service	
Analysis Period (min)			15				

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	†	7				
Traffic Volume (veh/h)	768	49	0	1201	0	0
Future Volume (Veh/h)	768	49	0	1201	0	0
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	853	54	0	1334	0	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				476		
pX, platoon unblocked					0.46	
vC, conflicting volume			907		2187	853
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			907		2998	853
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			750		7	359
Direction, Lane #	EB 1	EB 2	WB 1			
Volume Total	853	54	1334			
Volume Left	0	0	0			
Volume Right	0	54	0			
cSH	1700	1700	1700			
Volume to Capacity	0.50	0.03	0.78			
Queue Length 95th (ft)	0	0	0			
Control Delay (s)	0.0	0.0	0.0			
Lane LOS						
Approach Delay (s)	0.0		0.0			
Approach LOS						
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utilizat	tion		66.5%	IC	U Level o	f Service
Analysis Period (min)			15			22

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Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		1				
Traffic Volume (veh/h)	1126	94	0	969	0	0
Future Volume (Veh/h)	1126	94	0	969	0	0
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	1251	104	0	1077	0	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)				476		
pX, platoon unblocked					0.65	
vC, conflicting volume			1355		2328	1251
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1355		2782	1251
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	100
cM capacity (veh/h)			508		13	211
Direction, Lane #	EB 1	EB 2	WB 1			
Volume Total	1251	104	1077			
Volume Left	0	0	0			
Volume Right	0	104	0			
cSH	1700	1700	1700			
Volume to Capacity	0.74	0.06	0.63			
Queue Length 95th (ft)	0.74	0.00	0.03			
Control Delay (s)	0.0	0.0	0.0			
Lane LOS	0.0	0.0	0.0			
Approach Delay (s)	0.0		0.0			
Approach LOS	0.0		0.0			
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utiliz	zation		62.6%	IC	U Level	of Service
Analysis Period (min)			15			

APPENDIX L

SIMTRAFFIC QUEUEING REPORTS

Intersection: 1: Averette Road & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	72	136	62	232	256	165	135
Average Queue (ft)	25	65	22	102	108	69	55
95th Queue (ft)	57	126	51	183	208	126	110
Link Distance (ft)		1815		2550	459	1482	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)				1			
Queuing Penalty (veh)				0			

Intersection: 2: Wait Avenue & Carrie May Lane

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	84	39
Average Queue (ft)	4	7
95th Queue (ft)	34	29
Link Distance (ft)	2067	1381
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 3: Austin View Blvd & Wait Avenue

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	26	116
Average Queue (ft)	3	45
95th Queue (ft)	17	94
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB	SB
Directions Served	LR	TR	LT
Maximum Queue (ft)	87	13	83
Average Queue (ft)	22	1	14
95th Queue (ft)	54	6	51
Link Distance (ft)	1334	354	459
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	50	16
Average Queue (ft)	24	2
95th Queue (ft)	46	13
Link Distance (ft)	1565	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		150
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	94	260	75	174	349	119	111
Average Queue (ft)	38	122	22	75	141	47	46
95th Queue (ft)	73	221	56	140	268	98	95
Link Distance (ft)		1815		2550	459	1482	
Upstream Blk Time (%)					0		
Queuing Penalty (veh)					0		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)		1		0			
Queuing Penalty (veh)		1		0			

Intersection: 2: Wait Avenue & Carrie May Lane

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	44	31
Average Queue (ft)	3	8
95th Queue (ft)	20	29
Link Distance (ft)	2067	1381
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	39	81
Average Queue (ft)	12	30
95th Queue (ft)	35	62
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB	SB
Directions Served	LR	TR	LT
Maximum Queue (ft)	66	4	66
Average Queue (ft)	19	0	18
95th Queue (ft)	48	3	54
()			
Link Distance (ft)	1334	354	459
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	46	29
Average Queue (ft)	22	4
95th Queue (ft)	45	19
Link Distance (ft)	1565	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		150
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	135	328	274	1236	418	278	191
Average Queue (ft)	38	168	108	656	246	112	77
95th Queue (ft)	90	283	278	1148	453	209	148
Link Distance (ft)		1815		2550	459	1482	
Upstream Blk Time (%)					5		
Queuing Penalty (veh)					11		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)		5	0	39		0	
Queuing Penalty (veh)		3	4	25		0	

Intersection: 2: Wait Avenue & Carrie May Lane

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	50	31
Average Queue (ft)	3	9
95th Queue (ft)	21	31
Link Distance (ft)	2067	1381
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	27	176
Average Queue (ft)	4	65
95th Queue (ft)	18	139
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB	SB
Directions Served	LR	TR	LT
Maximum Queue (ft)	146	86	142
Average Queue (ft)	43	16	27
95th Queue (ft)	136	113	87
Link Distance (ft)	1334	354	459
Upstream Blk Time (%)		0	
Queuing Penalty (veh)		0	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	65	27
Average Queue (ft)	28	2
95th Queue (ft)	51	15
Link Distance (ft)	1565	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		150
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	300	1097	121	378	366	133	115
Average Queue (ft)	153	645	34	174	219	52	51
95th Queue (ft)	341	1327	83	311	404	105	97
Link Distance (ft)		1815		2550	459	1482	
Upstream Blk Time (%)		0			3		
Queuing Penalty (veh)		1			8		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)	0	37		8			
Queuing Penalty (veh)	1	42		4			

Intersection: 2: Wait Avenue & Carrie May Lane

Movement	EB	SB
Directions Served	LT	LR
Maximum Queue (ft)	131	35
Average Queue (ft)	10	9
95th Queue (ft)	82	32
Link Distance (ft)	2067	1381
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	47	132
Average Queue (ft)	14	45
95th Queue (ft)	40	105
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	WB	NB	SB
Directions Served	LR	TR	LT
Maximum Queue (ft)	123	84	87
Average Queue (ft)	33	11	19
95th Queue (ft)	122	97	55
Link Distance (ft)	1334	354	459
Upstream Blk Time (%)		0	
Queuing Penalty (veh)		1	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB	NB
Directions Served	LR	L	T
Maximum Queue (ft)	79	27	6
Average Queue (ft)	29	5	0
95th Queue (ft)	57	21	4
Link Distance (ft)	1565		826
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		150	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	300	412	274	2361	466	208	154
Average Queue (ft)	99	341	201	1557	402	108	71
95th Queue (ft)	278	470	335	2911	568	185	134
Link Distance (ft)		401		2550	446	1482	
Upstream Blk Time (%)		8		21	36		
Queuing Penalty (veh)		62		0	115		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)		31	36	42			
Queuing Penalty (veh)		18	330	45			

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	WB	NB	SB
Directions Served	LT	L	LTR	LTR
Maximum Queue (ft)	138	29	862	60
Average Queue (ft)	8	7	537	12
95th Queue (ft)	80	25	954	41
Link Distance (ft)	492		1026	1159
Upstream Blk Time (%)			4	
Queuing Penalty (veh)			0	
Storage Bay Dist (ft)		125		
Storage Blk Time (%)	1			
Queuing Penalty (veh)	0			

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	32	230
Average Queue (ft)	5	95
95th Queue (ft)	22	211
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	482	520	176	282	124	13
Average Queue (ft)	223	289	39	104	25	1
95th Queue (ft)	613	931	148	289	83	8
Link Distance (ft)	1154	1338		358	446	
Upstream Blk Time (%)		2		2		
Queuing Penalty (veh)		0		6		
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)			0	18	1	
Queuing Penalty (veh)			0	15	1	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB	NB
Directions Served	LR	L	Т
Maximum Queue (ft)	81	28	59
Average Queue (ft)	29	3	6
95th Queue (ft)	63	16	67
Link Distance (ft)	1565		826
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		150	
Storage Blk Time (%)			1
Queuing Penalty (veh)			0

Movement	WB	NB
Directions Served	LT	LR
Maximum Queue (ft)	92	38
Average Queue (ft)	5	7
95th Queue (ft)	39	27
Link Distance (ft)	492	1041
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB
Directions Served	R	L	R
Maximum Queue (ft)	13	56	88
Average Queue (ft)	0	22	36
95th Queue (ft)	5	47	68
Link Distance (ft)			1066
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	50	175	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 8: Access D & Wait Avenue

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	376	90
Average Queue (ft)	76	9
95th Queue (ft)	272	66
Link Distance (ft)	661	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		50
Storage Blk Time (%)	9	
Queuing Penalty (veh)	5	

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	300	414	275	2409	468	184	105
Average Queue (ft)	165	407	250	1400	453	73	40
95th Queue (ft)	334	414	331	2792	493	145	86
Link Distance (ft)		401		2550	446	1482	
Upstream Blk Time (%)		39		21	44		
Queuing Penalty (veh)		438		0	194		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)	0	52	82	26			
Queuing Penalty (veh)	3	66	544	27			

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	R	L	TR	LTR	LTR
Maximum Queue (ft)	507	150	85	46	1051	118
Average Queue (ft)	414	50	30	2	958	45
95th Queue (ft)	690	165	69	23	1220	119
Link Distance (ft)	492			662	1026	1159
Upstream Blk Time (%)	9				70	
Queuing Penalty (veh)	102				0	
Storage Bay Dist (ft)		50	125			
Storage Blk Time (%)	39		0	0		
Queuing Penalty (veh)	18		0	0		

Movement	EB	EB	WB	NB	
Directions Served	T	R	L	LR	
Maximum Queue (ft)	782	104	77	541	
Average Queue (ft)	234	27	20	232	
95th Queue (ft)	1083	154	56	600	
Link Distance (ft)	2004			1295	
Upstream Blk Time (%)	2				
Queuing Penalty (veh)	0				
Storage Bay Dist (ft)		150	325		
Storage Blk Time (%)	11				
Queuing Penalty (veh)	8				

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	1161	396	200	338	107	18
Average Queue (ft)	819	159	46	136	26	1
95th Queue (ft)	1460	415	158	304	77	10
Link Distance (ft)	1154	1338		358	446	
Upstream Blk Time (%)	38			2		
Queuing Penalty (veh)	0			7		
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)			0	22	1	
Queuing Penalty (veh)			0	25	1	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB	NB
Directions Served	LR	L	T
Maximum Queue (ft)	63	34	64
Average Queue (ft)	26	7	7
95th Queue (ft)	53	27	62
Link Distance (ft)	1565		826
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		150	
Storage Blk Time (%)			1
Queuing Penalty (veh)			0

Movement	EB	WB	NB
Directions Served	TR	LT	LR
Maximum Queue (ft)	1491	128	75
Average Queue (ft)	819	10	13
95th Queue (ft)	1789	89	51
Link Distance (ft)	1492	492	1041
Upstream Blk Time (%)	1		
Queuing Penalty (veh)	10		
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Movement	EB	EB	WB	WB	NB
Directions Served	T	R	L	Т	R
Maximum Queue (ft)	678	150	112	21	1096
Average Queue (ft)	639	74	48	1	1065
95th Queue (ft)	792	196	101	19	1131
Link Distance (ft)	662			661	1066
Upstream Blk Time (%)	13				94
Queuing Penalty (veh)	144				0
Storage Bay Dist (ft)		50	175		
Storage Blk Time (%)	45				
Queuing Penalty (veh)	46				

Intersection: 8: Access D & Wait Avenue

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	678	150
Average Queue (ft)	667	34
95th Queue (ft)	676	136
Link Distance (ft)	661	
Upstream Blk Time (%)	24	
Queuing Penalty (veh)	300	
Storage Bay Dist (ft)		50
Storage Blk Time (%)	48	
Queuing Penalty (veh)	45	

Network Summary

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	R	L	TR	L	TR	LT	R	
Maximum Queue (ft)	299	409	200	275	1610	337	292	398	217	
Average Queue (ft)	64	261	91	159	865	164	98	214	96	
95th Queue (ft)	183	432	238	316	1489	298	232	419	241	
Link Distance (ft)		395			2544		446	1480		
Upstream Blk Time (%)		3					1			
Queuing Penalty (veh)		22					2			
Storage Bay Dist (ft)	200		100	175		300			350	
Storage Blk Time (%)		29	0	2	41	3	2	6		
Queuing Penalty (veh)		61	0	16	44	4	3	8		

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	R	L	TR	LTR	LTR
Maximum Queue (ft)	450	52	188	431	172	48
Average Queue (ft)	160	4	22	227	90	10
95th Queue (ft)	339	27	88	387	146	37
Link Distance (ft)	492			662	1026	1159
Upstream Blk Time (%)	0					
Queuing Penalty (veh)	3					
Storage Bay Dist (ft)		50	125			
Storage Blk Time (%)	22	0		15		
Queuing Penalty (veh)	3	0		3		

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	28	322
Average Queue (ft)	5	128
95th Queue (ft)	22	297
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	105	130	49	47	160	47
Average Queue (ft)	38	46	12	3	25	2
95th Queue (ft)	77	104	33	38	86	26
Link Distance (ft)	1154	1338		358	446	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)				0	1	
Queuing Penalty (veh)				0	1	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	81	26
Average Queue (ft)	28	3
95th Queue (ft)	58	16
Link Distance (ft)	1565	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		150
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB
Directions Served	TR	LT	LR
Maximum Queue (ft)	74	185	33
Average Queue (ft)	3	13	7
95th Queue (ft)	38	100	27
Link Distance (ft)	1492	492	1041
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Movement	EB	WB	NB
Directions Served	R	L	R
Maximum Queue (ft)	4	62	104
Average Queue (ft)	0	25	41
95th Queue (ft)	5	55	79
Link Distance (ft)			1066
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	50	175	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 8: Access D & Wait Avenue

Movement	EB
Directions Served	Т
Maximum Queue (ft)	315
Average Queue (ft)	29
95th Queue (ft)	154
Link Distance (ft)	661
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	3
Queuing Penalty (veh)	2

Network Summary

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	R	L	TR	L	TR	LT	R	
Maximum Queue (ft)	300	412	200	275	862	347	333	339	186	
Average Queue (ft)	150	401	142	183	433	221	143	176	57	
95th Queue (ft)	321	440	276	328	841	356	315	397	174	
Link Distance (ft)		395			2544		446	1480		
Upstream Blk Time (%)		27					1			
Queuing Penalty (veh)		309					3			
Storage Bay Dist (ft)	200		100	175		300			350	
Storage Blk Time (%)	1	48	0	26	32	7	1	9		
Queuing Penalty (veh)	10	175	1	169	33	13	3	9		

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	R	L	TR	LTR	LTR
Maximum Queue (ft)	507	150	181	320	236	52
Average Queue (ft)	457	31	60	115	109	16
95th Queue (ft)	608	122	125	240	194	45
Link Distance (ft)	492			662	1026	1159
Upstream Blk Time (%)	13					
Queuing Penalty (veh)	146					
Storage Bay Dist (ft)		50	125			
Storage Blk Time (%)	34	2	1	4		
Queuing Penalty (veh)	16	19	8	3		

Movement	EB	EB	WB	NB	
Directions Served	T	R	L	LR	
Maximum Queue (ft)	221	54	65	559	
Average Queue (ft)	39	9	20	276	
95th Queue (ft)	268	83	50	715	
Link Distance (ft)	2004			1295	
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)		150	325		
Storage Blk Time (%)	3				
Queuing Penalty (veh)	2				

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	211	110	61	20	126	51
Average Queue (ft)	89	39	16	1	29	4
95th Queue (ft)	170	89	42	14	81	38
Link Distance (ft)	1154	1338		358	446	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)			0		1	
Queuing Penalty (veh)			0		0	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	84	30
Average Queue (ft)	28	7
95th Queue (ft)	61	27
Link Distance (ft)	1565	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		150
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB
Directions Served	TR	LT	LR
Maximum Queue (ft)	1033	264	66
Average Queue (ft)	642	24	13
95th Queue (ft)	1546	168	47
Link Distance (ft)	1492	492	1041
Upstream Blk Time (%)	0	0	
Queuing Penalty (veh)	2	0	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Movement	EB	EB	WB	WB	NB
Directions Served	T	R	L	Т	R
Maximum Queue (ft)	608	150	125	31	1079
Average Queue (ft)	197	31	53	1	766
95th Queue (ft)	557	126	101	22	1380
Link Distance (ft)	662			661	1066
Upstream Blk Time (%)	0				45
Queuing Penalty (veh)	3				0
Storage Bay Dist (ft)		50	175		
Storage Blk Time (%)	16	0			
Queuing Penalty (veh)	16	0			

Intersection: 8: Access D & Wait Avenue

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	677	150
Average Queue (ft)	548	45
95th Queue (ft)	861	157
Link Distance (ft)	661	
Upstream Blk Time (%)	5	
Queuing Penalty (veh)	66	
Storage Bay Dist (ft)		50
Storage Blk Time (%)	37	
Queuing Penalty (veh)	34	

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	257	411	274	2539	463	250	152
Average Queue (ft)	96	336	182	1774	382	117	68
95th Queue (ft)	262	467	321	2955	548	213	135
Link Distance (ft)		401		2550	447	1482	
Upstream Blk Time (%)		6		21	19		
Queuing Penalty (veh)		49		0	61		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)	1	30	26	45			
Queuing Penalty (veh)	5	17	236	48			

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	NB	SB
Directions Served	LT	R	L	LTR	LTR
Maximum Queue (ft)	66	30	57	908	49
Average Queue (ft)	3	1	23	586	15
95th Queue (ft)	34	21	49	1033	42
Link Distance (ft)	486			1026	1159
Upstream Blk Time (%)				6	
Queuing Penalty (veh)				0	
Storage Bay Dist (ft)		50	350		
Storage Blk Time (%)	0				
Queuing Penalty (veh)	0				

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	27	297
Average Queue (ft)	4	138
95th Queue (ft)	19	337
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	204	200	112	204	106	12
Average Queue (ft)	72	71	15	40	25	1
95th Queue (ft)	203	207	63	159	76	7
Link Distance (ft)	1191	1338		358	447	
Upstream Blk Time (%)				0		
Queuing Penalty (veh)				1		
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)				5	1	
Queuing Penalty (veh)				4	1	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB	NB
Directions Served	LR	L	T
Maximum Queue (ft)	68	27	6
Average Queue (ft)	28	3	0
95th Queue (ft)	55	17	4
Link Distance (ft)	1565		826
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		150	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Movement	NB
Directions Served	R
Maximum Queue (ft)	29
Average Queue (ft)	3
95th Queue (ft)	18
Link Distance (ft)	1042
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Movement	NB
Directions Served	R
Maximum Queue (ft)	95
Average Queue (ft)	36
95th Queue (ft)	71
Link Distance (ft)	1066
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 8: Access D & Wait Avenue

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	282	90
Average Queue (ft)	62	4
95th Queue (ft)	241	43
Link Distance (ft)	607	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		50
Storage Blk Time (%)	8	
Queuing Penalty (veh)	4	

Network Summary

Movement	EB	EB	WB	WB	NB	SB	SB
Directions Served	L	TR	L	TR	LTR	LT	R
Maximum Queue (ft)	300	416	275	1966	467	164	118
Average Queue (ft)	160	407	231	1170	450	71	44
95th Queue (ft)	335	414	339	2644	502	134	96
Link Distance (ft)		401		2550	447	1482	
Upstream Blk Time (%)		40		9	47		
Queuing Penalty (veh)		446		0	208		
Storage Bay Dist (ft)	200		175				350
Storage Blk Time (%)	0	53	63	27			
Queuing Penalty (veh)	2	68	417	28			

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	R	L	TR	LTR	LTR
Maximum Queue (ft)	498	150	163	43	1045	135
Average Queue (ft)	386	46	70	1	962	50
95th Queue (ft)	687	159	138	31	1235	150
Link Distance (ft)	486			717	1026	1159
Upstream Blk Time (%)	9				77	
Queuing Penalty (veh)	105				0	
Storage Bay Dist (ft)		50	350			
Storage Blk Time (%)	39					
Queuing Penalty (veh)	18					

Movement	EB	EB	WB	NB	
Directions Served	T	R	L	LR	
Maximum Queue (ft)	1186	154	60	631	
Average Queue (ft)	279	35	17	271	
95th Queue (ft)	1184	177	49	696	
Link Distance (ft)	2004			1295	
Upstream Blk Time (%)	3				
Queuing Penalty (veh)	0				
Storage Bay Dist (ft)		150	325		
Storage Blk Time (%)	16				
Queuing Penalty (veh)	11				

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	1218	523	199	350	94	9
Average Queue (ft)	854	246	44	143	23	1
95th Queue (ft)	1530	583	155	304	67	8
Link Distance (ft)	1191	1338		358	447	
Upstream Blk Time (%)	48			2		
Queuing Penalty (veh)	0			9		
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)				25	0	
Queuing Penalty (veh)				29	0	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB	NB
Directions Served	LR	L	Т
Maximum Queue (ft)	71	28	114
Average Queue (ft)	29	5	8
95th Queue (ft)	61	23	68
Link Distance (ft)	1565		826
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		150	
Storage Blk Time (%)			1
Queuing Penalty (veh)			0

Movement	EB	NB
Directions Served	TR	R
Maximum Queue (ft)	1283	37
Average Queue (ft)	839	5
95th Queue (ft)	1896	23
Link Distance (ft)	1498	1042
Upstream Blk Time (%)	2	
Queuing Penalty (veh)	18	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	EB	NB
Directions Served	Т	R	R
Maximum Queue (ft)	732	150	1098
Average Queue (ft)	676	64	1047
95th Queue (ft)	887	186	1183
Link Distance (ft)	717		1066
Upstream Blk Time (%)	12		87
Queuing Penalty (veh)	143		0
Storage Bay Dist (ft)		50	
Storage Blk Time (%)	46		
Queuing Penalty (veh)	47		

Intersection: 8: Access D & Wait Avenue

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	623	150
Average Queue (ft)	614	39
95th Queue (ft)	622	146
Link Distance (ft)	607	
Upstream Blk Time (%)	27	
Queuing Penalty (veh)	343	
Storage Bay Dist (ft)		50
Storage Blk Time (%)	49	
Queuing Penalty (veh)	46	

Network Summary

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB	
Directions Served	L	T	R	L	TR	L	TR	LT	R	
Maximum Queue (ft)	261	407	200	274	1803	284	233	479	231	
Average Queue (ft)	65	262	88	149	1128	157	85	254	109	
95th Queue (ft)	177	416	234	301	2127	254	172	531	280	
Link Distance (ft)		395			2544		447	1480		
Upstream Blk Time (%)		1			1					
Queuing Penalty (veh)		7			0					
Storage Bay Dist (ft)	200		100	175		300			350	
Storage Blk Time (%)		28		2	43	0	0	11		
Queuing Penalty (veh)		58		15	46	0	0	14		

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	R	L	TR	LTR	LTR
Maximum Queue (ft)	421	148	120	330	191	45
Average Queue (ft)	177	8	54	185	82	10
95th Queue (ft)	320	53	103	305	149	36
Link Distance (ft)	486			717	1026	1159
Upstream Blk Time (%)	1					
Queuing Penalty (veh)	5					
Storage Bay Dist (ft)		50	350			
Storage Blk Time (%)	28	0		0		
Queuing Penalty (veh)	4	0		0		

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	28	411
Average Queue (ft)	5	210
95th Queue (ft)	22	502
Link Distance (ft)		1295
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	325	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	91	106	45	4	148	43
Average Queue (ft)	41	37	11	0	28	2
95th Queue (ft)	77	80	33	2	96	26
Link Distance (ft)	1169	1338		358	447	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)					1	
Queuing Penalty (veh)					1	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB	SB
Directions Served	LR	L	TR
Maximum Queue (ft)	68	27	9
Average Queue (ft)	28	4	0
95th Queue (ft)	56	20	6
Link Distance (ft)	1565		358
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		150	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Movement	EB	NB
Directions Served	TR	R
Maximum Queue (ft)	105	29
Average Queue (ft)	7	3
95th Queue (ft)	82	18
Link Distance (ft)	1498	1042
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	NB
Directions Served	R
Maximum Queue (ft)	92
Average Queue (ft)	37
95th Queue (ft)	71
Link Distance (ft)	1066
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 8: Access D & Wait Avenue

Movement	EB
Directions Served	T
Maximum Queue (ft)	117
Average Queue (ft)	9
95th Queue (ft)	57
Link Distance (ft)	607
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	1
Queuing Penalty (veh)	0

Network Summary

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	R	L	TR	L	TR	LT	R
Maximum Queue (ft)	300	412	200	274	869	366	402	246	107
Average Queue (ft)	161	387	146	159	446	237	171	124	45
95th Queue (ft)	336	479	278	299	909	393	398	224	87
Link Distance (ft)		395			2544		447	1480	
Upstream Blk Time (%)		23					3		
Queuing Penalty (veh)		260					14		
Storage Bay Dist (ft)	200		100	175		300			350
Storage Blk Time (%)	0	46	0	9	37	16	2		
Queuing Penalty (veh)	4	166	1	60	38	30	6		

Intersection: 2: Access B/Carrie May Lane & Wait Avenue

Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	R	L	TR	LTR	LTR
Maximum Queue (ft)	501	150	301	395	217	48
Average Queue (ft)	464	25	172	115	104	12
95th Queue (ft)	584	109	332	310	177	39
Link Distance (ft)	486			717	1026	1159
Upstream Blk Time (%)	13			0		
Queuing Penalty (veh)	151			0		
Storage Bay Dist (ft)		50	350			
Storage Blk Time (%)	35	0	5	1		
Queuing Penalty (veh)	16	0	40	1		

Movement	EB	WB	NB
Directions Served	Т	L	LR
Maximum Queue (ft)	28	54	480
Average Queue (ft)	2	19	248
95th Queue (ft)	30	46	614
Link Distance (ft)	2004		1295
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		325	
Storage Blk Time (%)	0		
Queuing Penalty (veh)	0		

Movement	EB	WB	NB	NB	SB	SB
Directions Served	LTR	LTR	L	TR	LT	R
Maximum Queue (ft)	250	167	53	45	106	17
Average Queue (ft)	94	45	18	7	30	1
95th Queue (ft)	208	113	41	43	79	9
Link Distance (ft)	1169	1338		358	447	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			100			75
Storage Blk Time (%)				0	1	
Queuing Penalty (veh)				0	1	

Intersection: 5: Averette Road & Kavanaugh Road

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	68	28
Average Queue (ft)	28	6
95th Queue (ft)	56	24
Link Distance (ft)	1565	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		150
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	NB
Directions Served	TR	R
Maximum Queue (ft)	1060	41
Average Queue (ft)	525	7
95th Queue (ft)	1219	31
Link Distance (ft)	1498	1042
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Movement	EB	EB	WB	NB
Directions Served	Т	R	Т	R
Maximum Queue (ft)	484	120	32	928
Average Queue (ft)	120	19	1	576
95th Queue (ft)	462	101	22	1231
Link Distance (ft)	717		607	1066
Upstream Blk Time (%)	0			25
Queuing Penalty (veh)	1			0
Storage Bay Dist (ft)		50		
Storage Blk Time (%)	10			
Queuing Penalty (veh)	11			

Intersection: 8: Access D & Wait Avenue

Movement	EB	EB
Directions Served	T	R
Maximum Queue (ft)	615	150
Average Queue (ft)	428	47
95th Queue (ft)	800	161
Link Distance (ft)	607	
Upstream Blk Time (%)	5	
Queuing Penalty (veh)	65	
Storage Bay Dist (ft)		50
Storage Blk Time (%)	31	
Queuing Penalty (veh)	29	

Network Summary



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOSH STEIN GOVERNOR DANIEL H. JOHNSON SECRETARY

October 1, 2025

Wait Avenue Mixed-Use

Traffic Impact Analysis Review Report Congestion Management Section

TIA Project: SC-2025-182

Division: 5

County: Wake



Clarence B. Bunting, P.E. Regional Engineer Trevor S. Darnell, Project Design Engineer

Website: www.ncdot.gov

Wait Avenue Mixed-Use						
SC-2025-182	Rolesville	Wake County				

Per your request, the Congestion Management Section (CMS) of the Transportation Mobility and Safety Division has completed a review of the subject site. The comments and recommendations contained in this review are based on data for background conditions presented in the Traffic Impact Analysis (TIA) and are subject to the approval of the local District Engineer's Office and appropriate local authorities.

Date Initially Received by CMS	08/07/25	Date of Site Plan	01/31/25
Date of Complete Information	08/07/25	Date of Sealed TIA	08/07/25

Proposed Development

The TIA assumes the development is completed by 2031 and consists of the following:

Land Use	Land Use Code	Size
Mini-Warehouse	151	107,049 sq.ft.
Single-Family Detached Housing	210	300 d.u.
Shopping Plaza (40-150k)	821	84,600 sq.ft.
Convenience Store/Gas Station- VFP (9-15)	945	5,000 sq.ft.

Trip Generation - Unadjusted Volumes During a Typical Weekday			
	IN	OUT	TOTAL
AM Peak Hour	383	411	794
PM Peak Hour	689	647	1,336
Daily Trips			14,353

General Reference

For reference to various documents applicable to this review please reference the following link: https://connect.ncdot.gov/resources/safety/Pages/Congestion-Management.aspx

Once the driveway permit has been approved and issued, a copy of the final driveway permit requirements should be forwarded to this office. If we can provide further assistance, please contact the Congestion Management Section.

Access A

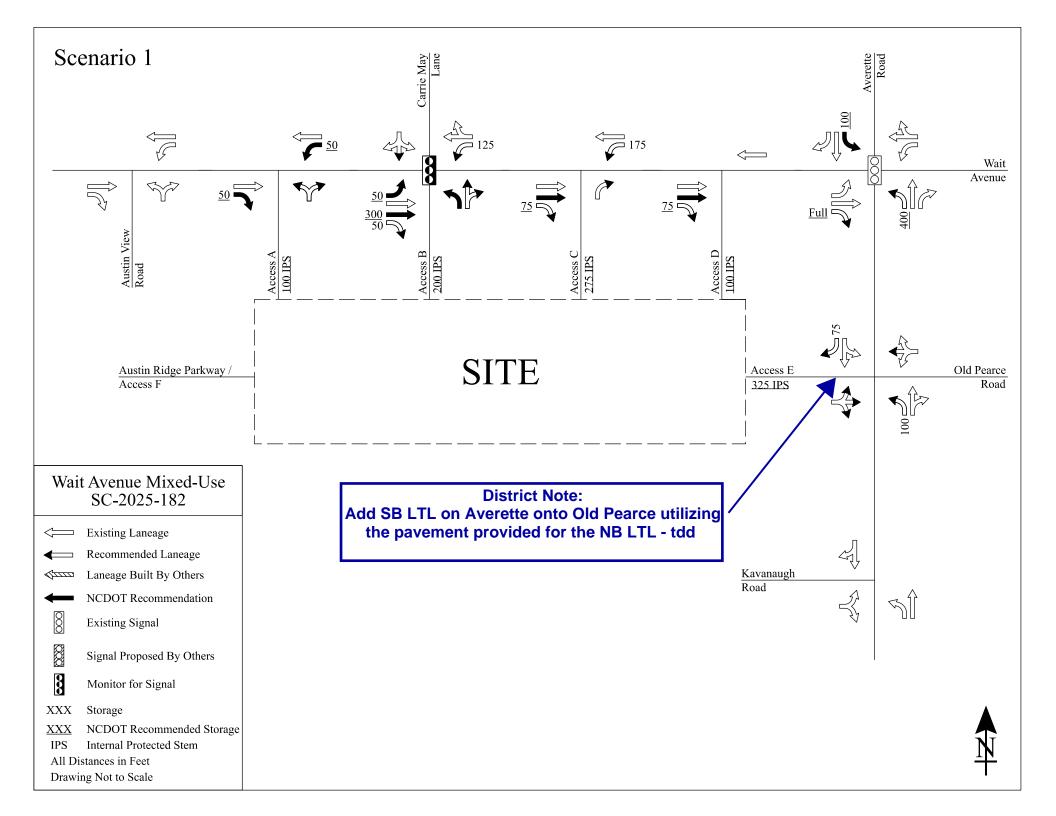
The proposed Access A is in close proximity to the Wait Avenue / Carrie May Lane / Access B intersection. If operational issues develop, access may need to be restricted. Care should be taken to maximize the distance between these two intersections.

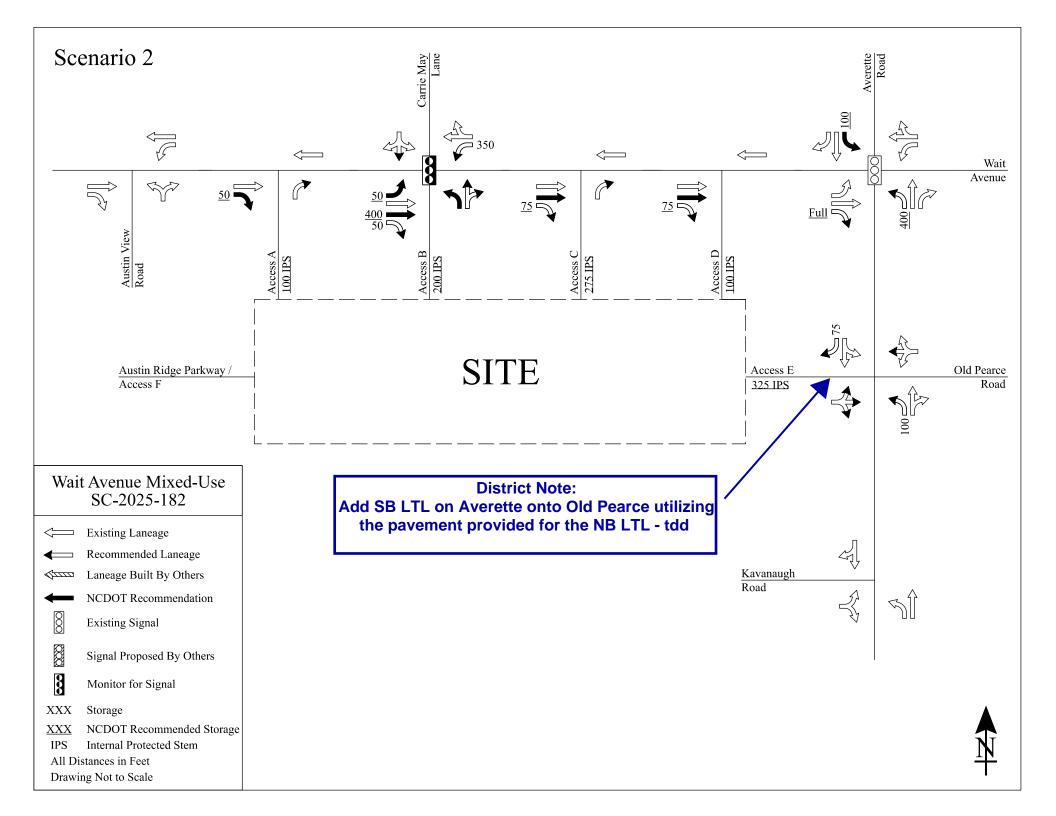
Access E

The proposed Access E is in close proximity to the Wait Avenue / Averette Road intersection. If operational issues develop, access may need to be restricted.

Signalization

We defer to the District Engineer, the Division Traffic Engineer, and the Regional Traffic Engineer for final decisions regarding signalization. The proposed signal may cause heavy queuing on Wait Avenue.







Memo

To: Planning Board

From: Michael Elabarger, Interim Planning Director & Meredith Gruber, Senior Planner

Date: Meeting Held October 27, 2025

Re: TA-25-12 Land Development Ordinance (LDO) Text Amendments to Table 3.4.1.

to Modify Options for Development Agreements in the Town Center (TC) Zoning

District

Background

TA-25-06 Part B, Modify Options for Development Agreements in the Activity Center (AC) and Neighborhood Center (NC) Zoning Districts, was approved by the Town Board of Commissioners on October 9, 2025. Town-initiated Text Amendment TA-25-12 proposes to match what was approved in the AC and NC Zoning Districts in the Town Center (TC) Zoning District.

Proposed Text Amendment

The proposed text for TA-25-12 is shown in blue and underlined.

Table 3.4.1. TC District Development Standards

STANDARDS	TC REQUIREMENTS		
Notes:			
Any/all development standards in Table 3.4.1. may be modified if part of a Development Agreement approved by the Town Board of Commissioners.			

Comprehensive Plan Consistency

The Rolesville 2050 Comprehensive Plan Focus Areas include looking at challenges and opportunities as they relate to:

- Transportation,
- Economic Development,
- Land Use & Housing, and
- Parks, Recreation, & Community Character.

A text amendment facilitating flexibility for Development Agreements in the Town Center Zoning District may support the Economic Development and Land Use & Housing Focus Areas. The Comprehensive Plan notes the importance of incorporating flexibility in the TC Zoning District requirements to provide for a unique, lifestyle destination.

Proposed Motion

Motion to Recommend (*approval or denial*) of TA-25-12, Text Amendments to Table 3.4.1. to Modify Options for Development Agreements in the Town Center (TC) Zoning, to the Town Board of Commissioners, because it is (*consistent or inconsistent*) with the Comprehensive Plan. (*Please include examples of consistency or inconsistency*.)