





# NCDOT Traffic Impact Analysis Need Screening / Scoping Request



- The proposed site access is located within 1,000 feet of an interchange.
- The Applicant requests for a new or modified control-of-access break.
- The Applicant requests for a new or modified median break.

\_\_\_\_\_ Chris Raughley \_\_\_\_\_  
 Applicant's Signature Print Name Date

**Site Plan/Vicinity Map Requirement for TIA Need Screening:** While the site plan may not be finalized during the TIA scoping stage, the graphic representation of the proposed development shall provide adequate details on the development scope and context. More specifically, the site plan/map shall clearly show the location and type of each access point, spacing to adjacent and opposing driveways or intersections, internal street network, proposed buildings/parcels with their anticipated uses and sizes at full build-out and, if applicable, any nearby interstate, US, NC or Secondary Roads (SR).

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**Project Name:** \_\_\_\_\_ **Project Reference Number:** \_\_\_\_\_

- A TIA is Required by the Local Government.** In addition, the study area is expected to include NCDOT maintained transportation facilities.
- A TIA is Required by NCDOT,** per the [Policy on Street and Driveway Access to North Carolina Highways](#).

If either or both of the boxes above are checked, the Applicant/TIA Consultant is hereby requested to fill out as much as possible of the following TIA scoping checklist, and return it along with the supporting documents to NCDOT prior to the scoping meeting.

- A TIA is NOT required.** This decision is based on the development information presented above. Changes in the development plan will require re-evaluation of the TIA need, and may necessitate a TIA. The Applicant should inform the District Engineer of any significant changes in a timely fashion to avoid delays or rejections of the driveway permit / encroachment agreement applications.



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### Additional Comments:

The TIA need decision is made by the NCDOT Division   5   District   2   on \_\_\_\_\_.

\_\_\_\_\_  
NCDOT District Representative's Signature

Email concurrence may be used in lieu of the signature.

\_\_\_\_\_  
Print Name



# NCDOT TIA Scoping Checklist



**Project Name:** Woodlief Assemblage

**TIA Scoping Date:** \_\_\_\_\_

**TIA Need Screening Forms are Attached.** Project Reference #: \_\_\_\_\_ Decision Date: \_\_\_\_\_

**Site Plan and Access**

Provide a site plan illustrating site access, internal and external roadways, buildings and land uses.  
Refer to NCDOT's [Policy on Street and Driveway Access to North Carolina Highways](#) pages 14 and 15 for site plan requirements.

Identify site access.

New Access	On Road	Access Type		Driveway Spacing		
	Road Name	Permitted Movements	Traffic Control	Distance (ft)	Direction	Nearest Intersection / Access
Access A	Rolesville Rd	Conventional Full-Mvmt	2-Way Stop	0	North	Catlette Farm Rd
Access B	Rolesville Rd	Conventional Full-Mvmt	2-Way Stop	0	North	Kalas Falls dvwy.
Access C						
Access D						
Access E						
Access F						
Access G						
Access H						
Existing Access	Existing Intersection of		Access Modification	Proposed Interconnectivity (If Applicable)		
	Road A	Road B		Connector #	Road Connected	Adjacent Development
Access 1			Please Select	Connector 1		
Access 2				Connector 2		
Access 3				Connector 3		
Access 4				Connector 4		

Additional access clarifications and provisions (e.g., proposed control-of-access or median breaks, modifications of existing access, loading/unloading area access, bike/pedestrian accommodation).

Development proposes two new driveways. The first being across from the existing Catlette Farm Road and the second being across from the approved development (e.g. Kalas Falls Subdivision) driveway.

**Proposed K-12 School Site**

- NCDOT [MSTA School Traffic Calculator](#) for Select School Type shall be used.
- Peak Hour Factors (PHFs) shall be adjusted/weighted for new school trips (0.5 PHF by default).
- Internal school circulation analysis is required, and should be submitted in advance or concurrent with the TIA submittal.
- Clarify traffic operation plans (e.g. traffic circulation pattern, pedestrian access, drop-off/pick-up zone location and configuration, queue storage area and, if applicable, staggered start times).







# NCDOT TIA Scoping Checklist



## Trip Distribution

- Trip distribution diagrams are submitted concurrently with this document (attach separate sheets).
- Trip distribution diagrams will be submitted separately, along with supporting information, to the District Engineer for review and approval prior to capacity analysis. The trip distribution shall be based on the current and anticipated traffic patterns, as well as instructions noted below.

If required by the District Engineer, the following additional diagrams shall also be submitted:

- Mixed-Use Developments (separate diagrams for residential, commercial, and office trips)
- Inter-Development Trips (if 'internal' trips cross public streets)
- Pass-By Trips
- Diverted Trips
- Each Analysis Period

## Mode Split

- Provide Data Source and Justification

Mode \ Period	Auto		
AM Peak	%	%	%
PM Peak	%	%	%
Daily	%	%	%
	%	%	%

- Identify proper infrastructure and accommodation for other modes of travel.

## Analysis Peak Periods:

- Weekday AM Peak 6:30 - 9:00 AM
- Weekday PM Peak 4:00 - 6:00 PM
- Weekday Midday Peak \_\_\_\_\_
- Weekday PM School Peak \_\_\_\_\_
- Weekend \_\_\_\_\_ Peak \_\_\_\_\_
- Other \_\_\_\_\_



# NCDOT TIA Scoping Checklist



## Study Area Intersections and Data Collection

The study area shall include the site access intersections (both new and existing) identified under “Site Plan and Access” on page 1, as well as the following external and, if applicable, internal intersections.

External Intersection	Intersection of		Traffic Control	Intersection Turning Movement Counts			Notes
	Road A	Road B		New / Existing	Date of Counts	Growth Adjustment	
#1	US 401	E. Young St.	Signal	Require New Counts			
#2	US 401	E. U-Turn	Signal	Require New Counts			
#3	US 401	W. U-Turn	Signal	Require New Counts			
#4	E. Young St.	Quarry Rd.	2-Way Stop	Require New Counts			
#5	E. Young St.	Rolesville HS	2-Way Stop	Require New Counts			
#6	Rolesville Rd.	Fowler Rd.	2-Way Stop	Require New Counts			
#7	Rolesville Rd.	Catlett Farm	2-Way Stop	Require New Counts			
#8	Rolesville Rd.	Mitchell Mill Rd	All-Way Stop	Require New Counts			
#9							
#10							
#11							
#12							

Internal Intersection	Intersection of		Access Type		Intersection Spacing		
	Road A	Road B	Traffic Control	Permitted Movements	Distance (ft)	Direction	Nearest Intersection
#101			Please Select	Please Select		Please Select	
#102							
#103							
#104							
#105							

The following data will be collected:

- New traffic turning movement counts in  15-min intervals  5-min intervals (near schools)  
 Unless otherwise noted above, new traffic counts shall be collected at the existing study intersections during the analysis periods. Weekday counts shall avoid Mondays, Fridays, holidays, school breaks, road closures, and major weather events.
- To account for the impact of existing and/or proposed school traffic, PHFs will be adjusted for:  
     intersections numbered: \_\_\_\_\_  
     and access points numbered: \_\_\_\_\_
- Traffic Forecast Data for TIP: \_\_\_\_\_
- Roadway/Intersection Configuration & Traffic Control
- Traffic Signal Phasing & Timing Data
- Crash Data: \_\_\_\_\_ Period: \_\_\_\_\_
- Other: \_\_\_\_\_



# NCDOT TIA Scoping Checklist



**Future Year Conditions**

Project Build-Out Year: \_\_\_\_\_ 2028 \_\_\_\_\_

Future Analysis Year(s): \_\_\_\_\_ 2028 \_\_\_\_\_

Identify below any funded/committed future transportation improvements, as well as any approved but incomplete developments near the site.

Funded STIP / Local CIP Project	Project Description		Year Complete
Nearby Approved Development	Location	Future Land Use (exclude any completed phases)	Committed Improvements
The Point	E. Young St.	Mixed-Use	Yes
Kalas Falls	Rolesville Road	Residential	Yes
Moody Farm	Rolesville Road	Residential	No
Tucker-Wilkins	Rolesville Road	Residential	No

Annual Growth Factor:   2   %

Justification/Data Source: Other TIAs in immediate vicinity

**Local Comprehensive Transportation Plan Compliance**

Identify Applicable Local Transportation Planning Documents

Identify Applicable Roadways inside the Study Area

Road Name	Classification	Speed Limit	Proposed Cross-Section	Proposed Right-of-Way	Compliance Requirements	Affect Study Intersection #



# NCDOT TIA Scoping Checklist



## Study Method

The traffic analysis shall follow the current [NCDOT Congestion Management Capacity Analysis Guidelines](#), [Policy on Street and Driveway Access to North Carolina Highways](#), and use the current approved version of analysis software (e.g. Synchro/SimTraffic, HCS, Sidra Intersection, TransModeler).

The study shall include the following analysis scenarios for each analysis period.

1. Existing Conditions
2. Future No-Build Conditions (existing + background growth + approved developments + committed or funded improvements)
3. Future Build Conditions (future no-build + site trips)
4. Future Build with Improvements Conditions (future build traffic with improvements to mitigate the proposed development's impacts) and, if applicable:
5. TIP Design Year Analysis \_\_\_\_\_
6. Alternative Access Scenario (without proposed control-of-access or median break / modification)

The following additional analysis/outputs should be provided as warranted:

- Signal Warrant Analysis for accesses/intersections \_\_\_\_\_
- Multi-Modal Level of Service Analysis
- School Loading Zone Traffic Simulation
- Phasing Analysis (scope separately as needed)
- Safety/Crash Analysis
- Control-of-Access Modification Justification
- Median Break / Modification Justification
- Other \_\_\_\_\_

## Submittals

In addition to the hardcopies required below, the TIA Consultant shall provide the District Engineer and, if required, the local government an electronic copy of the study documents, including the latest site plan, figures and appendices, in searchable PDF files and the original traffic analysis files (e.g., Synchro, HCS). To expedite review, the NCDOT electronic submittals shall also be delivered concurrently to:

- Div. Traffic Engr  Regional Traffic Engr  Congestion Management  Other \_\_\_\_\_

Submittals	NCDOT		Local Government	
	Electronic	Hardcopy	Electronic	Hardcopy
Trip Generation & Distribution	Required		Please Select	
Draft TIA Report	Required			
Final Sealed TIA Report	Required			

## Additional Comments (municipal TIA requirements, approved variations from NCDOT guidelines)

Rolesville Crossing (fka Wheeler Tract) located at 1801 Rolesville Road will also be included as an approved development.



# NCDOT TIA Scoping Checklist



## Agreement by All Parties

The undersigned agree to the contents and methodology described above for completing the required traffic impact analysis for the proposed development identified herein. Any changes to the above methodology contemplated by the Applicant or the TIA Consultant must be submitted to the District Engineer in writing. If approved by NCDOT, then such changes may be accepted for the TIA report. Subsequent revisions to the development plan (e.g. land use, density, site access, or schedule) may require additional scoping and analysis, and may modify the TIA requirements.

This agreement shall become effective on the date approved by NCDOT, and shall expire \_\_\_\_ months after the effective date or upon significant changes to the roadway network and/or development assumptions, whichever occurs first. Once expired, renewal or re-scoping will be required for subsequent TIA submittals.

## APPLICANT

	Chris Raughley	
Signature	Print Name	Date

## TIA CONSULTANT

	Matt Peach	
Signature	Print Name	Date

## LOCAL GOVERNMENT REPRESENTATIVE (If Applicable)

	Meredith Gruber	
Signature	Print Name	Date

Email concurrence may be used in lieu of the signature.

## NCDOT DISTRICT REPRESENTATIVE

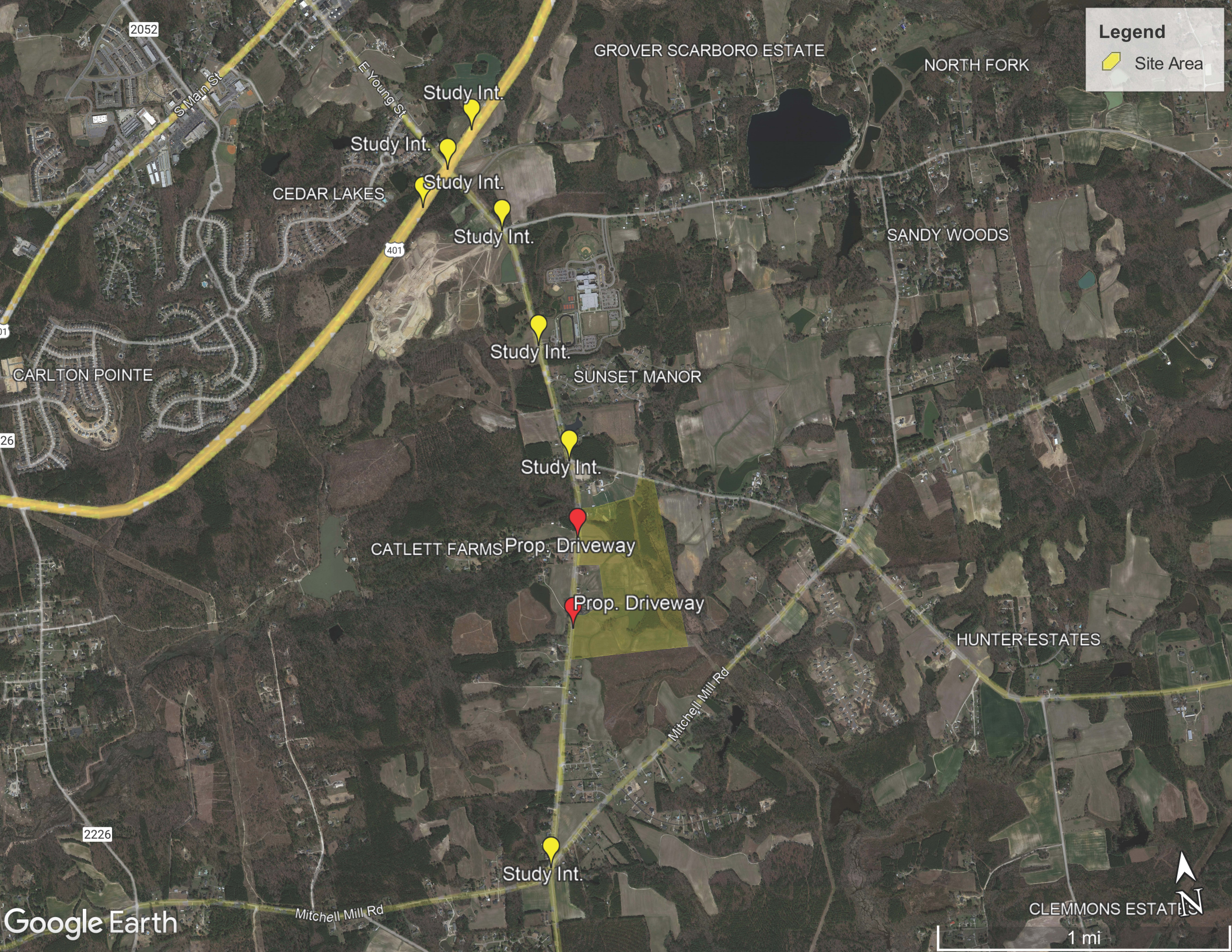
Reviewed and approved by the NCDOT Division  5  District  2  on \_\_\_\_\_.

Signature	Print Name

Email concurrence may be used in lieu of the signature.



**Legend**  
Site Area



2052

GROVER SCARBORO ESTATE

NORTH FORK

Study Int.

Study Int.

CEDAR LAKES

Study Int.

Study Int.

SANDY WOODS

401

Study Int.

SUNSET MANOR

CARLTON POINTE

Study Int.

CATLETT FARMS Prop. Driveway

Prop. Driveway

HUNTER ESTATES

Mitchell Mill Rd

2226

Study Int.

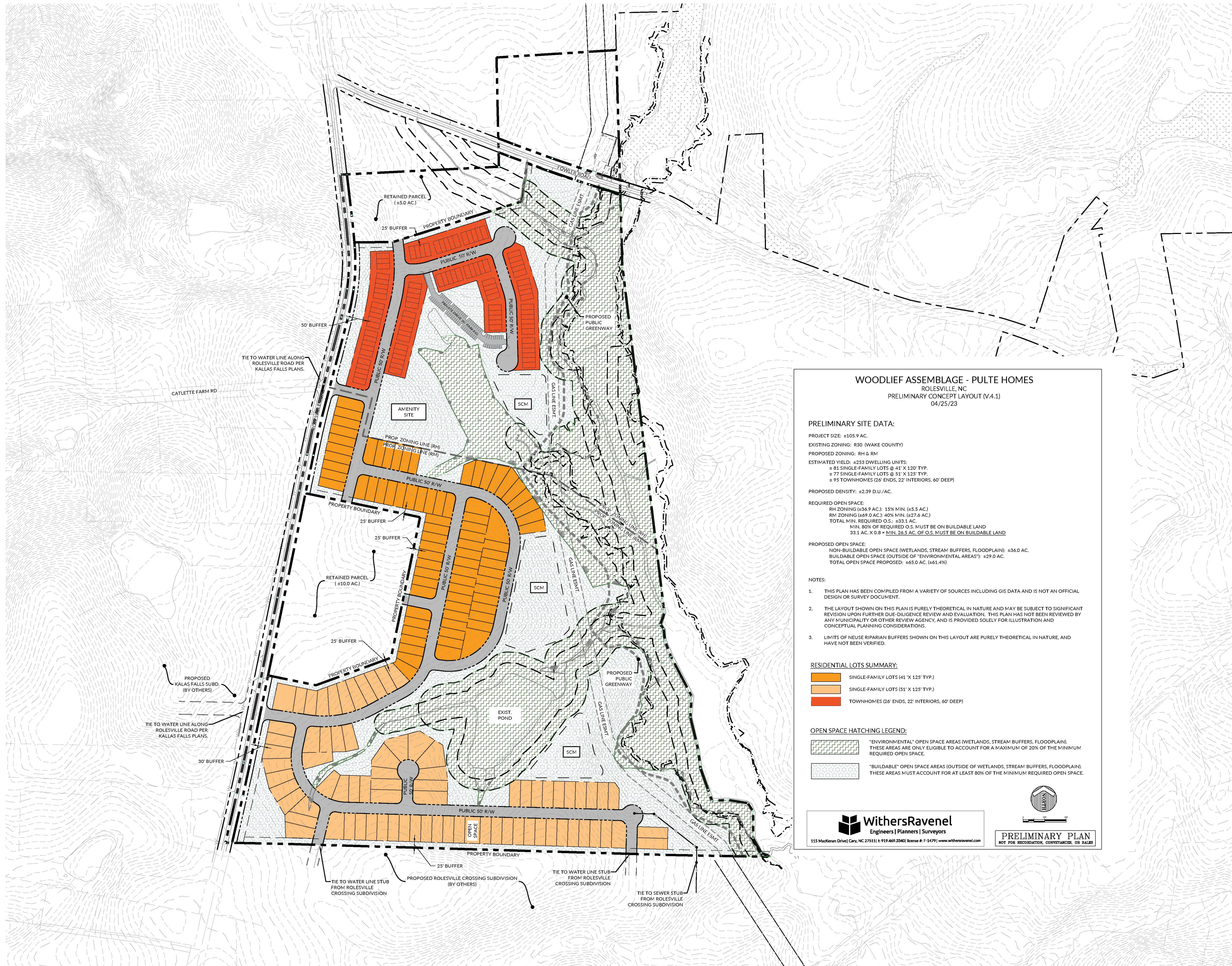
Mitchell Mill Rd

CLEMMONS ESTATES

1 mi

Google Earth





**WOODLIEF ASSEMBLAGE - PULTE HOMES**  
 ROLESVILLE, NC  
 PRELIMINARY CONCEPT LAYOUT (V.4.1)  
 04/25/23

**PRELIMINARY SITE DATA:**

PROJECT SIZE: ±105.9 AC.  
 EXISTING ZONING: R30 (WAKE COUNTY)  
 PROPOSED ZONING: RH & RM  
 ESTIMATED YIELD: ±253 DWELLING UNITS:  
 ± 81 SINGLE-FAMILY LOTS @ 41' X 125' TYP.  
 ± 77 SINGLE-FAMILY LOTS @ 51' X 125' TYP.  
 ± 95 TOWNHOMES (26' ENDS, 22' INTERIORS, 60' DEEP)  
 PROPOSED DENSITY: ±2.39 D.U./AC.

**REQUIRED OPEN SPACE:**  
 RH ZONING (±36.9 AC.): 15% MIN. (±5.5 AC.)  
 RM ZONING (±69.0 AC.): 40% MIN. (±27.6 AC.)  
 TOTAL MIN. REQUIRED O.S.: ±33.1 AC.  
 MIN. 80% OF REQUIRED O.S. MUST BE ON BUILDABLE LAND  
 33.1 AC. X 0.8 = MIN. 26.5 AC. OF O.S. MUST BE ON BUILDABLE LAND

**PROPOSED OPEN SPACE:**  
 NON-BUILDABLE OPEN SPACE (WETLANDS, STREAM BUFFERS, FLOODPLAIN): ±36.0 AC.  
 BUILDABLE OPEN SPACE (OUTSIDE OF "ENVIRONMENTAL AREAS"): ±29.0 AC.  
 TOTAL OPEN SPACE PROPOSED: ±65.0 AC. (±61.4%)

**NOTES:**

1. THIS PLAN HAS BEEN COMPILED FROM A VARIETY OF SOURCES INCLUDING GIS DATA AND IS NOT AN OFFICIAL DESIGN OR SURVEY DOCUMENT.
2. THE LAYOUT SHOWN ON THIS PLAN IS PURELY THEORETICAL IN NATURE AND MAY BE SUBJECT TO SIGNIFICANT REVISION UPON FURTHER DUE DILIGENCE REVIEW AND EVALUATION. THIS PLAN HAS NOT BEEN REVIEWED BY ANY MUNICIPALITY OR OTHER REVIEW AGENCY, AND IS PROVIDED SOLELY FOR ILLUSTRATION AND CONCEPTUAL PLANNING CONSIDERATIONS.
3. LIMITS OF NEUSE RIPARIAN BUFFERS SHOWN ON THIS LAYOUT ARE PURELY THEORETICAL IN NATURE, AND HAVE NOT BEEN VERIFIED.

**RESIDENTIAL LOTS SUMMARY:**

- SINGLE-FAMILY LOTS (41' X 125' TYP.)
- SINGLE-FAMILY LOTS (51' X 125' TYP.)
- TOWNHOMES (26' ENDS, 22' INTERIORS, 60' DEEP)

**OPEN SPACE HATCHING LEGEND:**

- "ENVIRONMENTAL" OPEN SPACE AREAS (WETLANDS, STREAM BUFFERS, FLOODPLAIN). THESE AREAS ARE ONLY ELIGIBLE TO ACCOUNT FOR A MAXIMUM OF 20% OF THE MINIMUM REQUIRED OPEN SPACE.
- "BUILDABLE" OPEN SPACE AREAS (OUTSIDE OF WETLANDS, STREAM BUFFERS, FLOODPLAIN). THESE AREAS MUST ACCOUNT FOR AT LEAST 80% OF THE MINIMUM REQUIRED OPEN SPACE.

**WithersRavenel**  
 Engineers | Planners | Surveyors  
 115 MacKenzie Drive | Cary, NC 27511 | 919.469.2340 | License #: F-14791 | www.withersravenel.com

**PRELIMINARY PLAN**  
 NOT FOR RECORDATION, CONVEYANCE, OR SALES



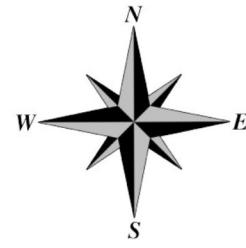
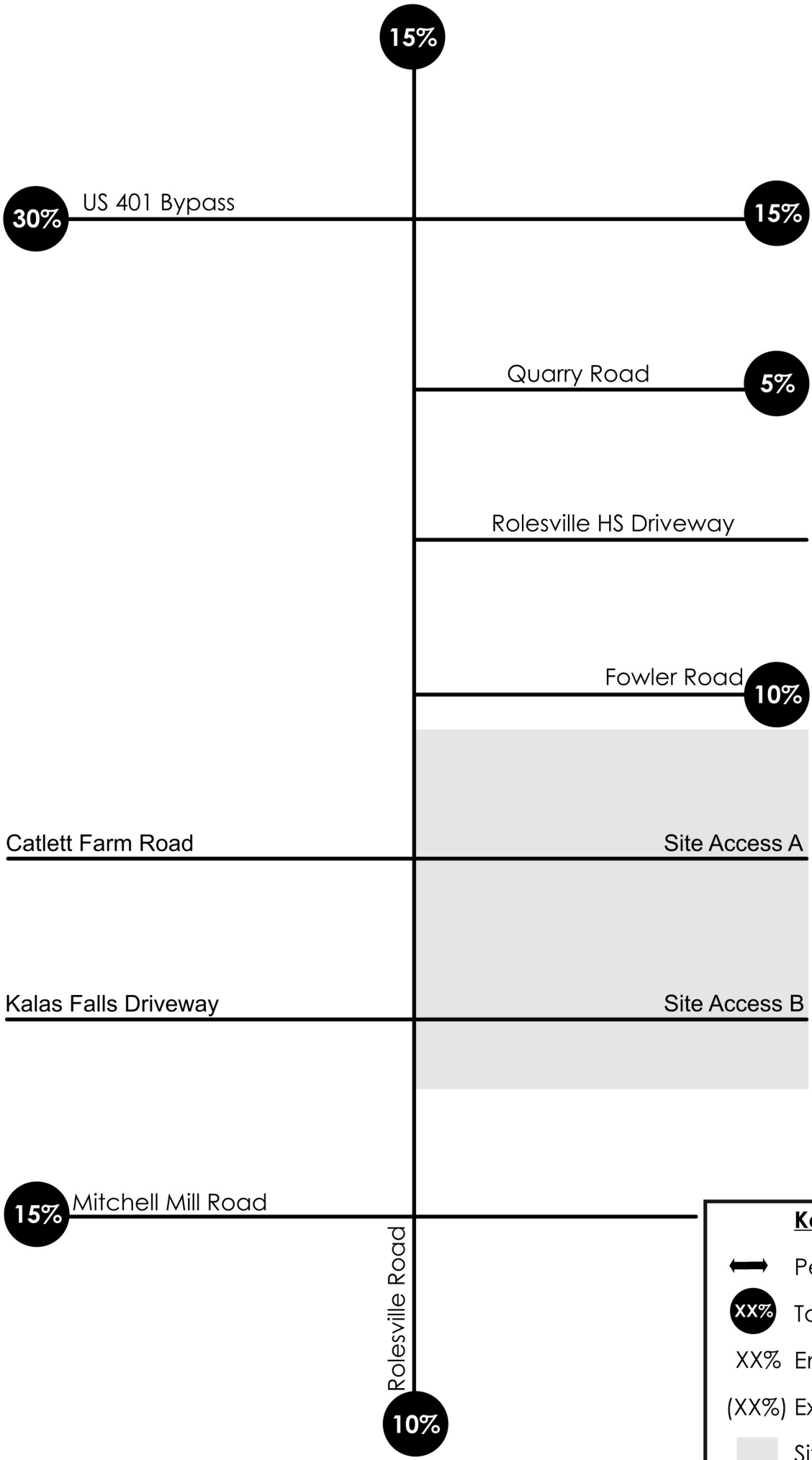


Figure is Not To Scale



**Key**

- ↔ Permitted Movement
- XX% Total Site Trip Distribution
- XX% Entering Trip Percentage
- (XX%) Exiting Trip Percentage
- Site Location