REZONING APPLICATION

AN APPLICATION TO AMEND THE OFFICIAL ZONING MAP OF GWINNETT COUNTY, GA.

APPLICANT INFORMATION	PROPERTY OWNER INFORMATION			
Name: <u>Luke Rozanski</u>	David Seungho Chi and Oak Chi Name: Bloomingdale T. Brown			
Address: <u>3460 Preston Ridge Rd Ste 150</u>	3006 Springdale Rd. Address: 2946 Springdale Rd			
City: Alpharetta	City: Snellville			
State: <u>GA</u> ZIP: <u>30005</u>	State: <u>GA</u> ZIP: <u>30039</u>			
Phone: <u>850-559-5600</u>	Phone: <u>850-559-5600</u>			
Email:ROZHLDG@GMAIL.COM	Email: <u>ROZHLDG@GMAIL.COM</u>			
Contact Person: Jake Adams Phone: 678.756.3889				
Contact's Email:adamsldgc@gmail.com				
APPLICANT IS THE:				
Owner's Agent Property Owner X Contract Purchaser				
Current Zoning District(s): <u>R-100</u> Requested	Zoning District: <u>R-60</u>			
Parcel Number(s): <u>5004 007 & 5004 006</u>	Acreage: <u>19.48</u>			
Property Address(es): 3006 & 2946 Springdale Rd, Snellville, GA 30039				
Proposed Development:49 unit single family det	ached subdivision			
Variance(s): <u>n/a</u> Waiver(s): <u>n/a</u>				
RESIDENTIAL DEVELOPMENT	NON-RESIDENTIAL DEVELOPMENT			
No. of Dwelling Units: <u>49</u>	No. of Buildings: <u>n/a</u>			
Dwelling Unit Sq. Ft.: <u>+/- 2,000</u>	Total Building Sq. Ft.: <u>n/a</u>			
Density: 2.5 units/ac	Floor Area Ratio:n/a			
Floor Area Ratio (LRR, MRR, HRR): <u>Min 0.27</u>				
MIXED-USE DEVELOPMENT				
No. of Dwelling Units: <u>n/a</u> Dwelling Unit Sq. Ft.: <u>n/a</u>				
Total Non-Residential Sq. Ft.:Na Floor Area Ratio:n/a				



GWINNETT COUNTY DEPARTMENT OF PLANNING AND DEVELOPMENT

446 West Crogan Street, Suite 300 | Lawrenceville, GA 30046-2440 678.518.6000 GwinnettCounty.com

PRE-APPLICATION MEETING MINUTES

Subject Properties: 2946 and 3006 Springdale Road Application Type: Rezoning Date: 3/13/2024

Attendees:

Name	Organization	Title	Email
Daniel	Gwinnett County	Deputy	Daniel.robinson@gwinnettcounty.com
Robinson		Director	
Andrew Russell	Gwinnett County	Planner	Andrew.russell@gwinnettcounty.com
Brent Hodges	Gwinnett County	DOT	Brent.hodges@gwinnettcounty.com
Luke Rozanski	REN-MF		rozhldg@gmail.com

Summary of Request:

• The applicant is requesting a rezoning from R-100 to R-60 to develop a single-family detached subdivision.

Comments:

- Mail kiosk must be shown on the site plan.
- Provide calculation and label open space. Minimum open space is 10% of project area. 50% of required open space must be usable. Usable area could contain activating the existing pond, seating areas, firepit, etc.
- The setback along Springdale Road is 40-feet-wide with a 10-foot-wide landscape included. Show on plan.
- Sewer capacity certification must be included in the application.
- Please have discussion with DWR regarding the location and relocation of the sewer line located in the rear yards of several residences. The proposed location will certainly lead to issues in the future. Strongly recommend redesigning the subdivision so that no lots are located in the easement.
- Traffic Impact Study required. Likely a Level II study please contact Brent Hodges for more information.
- Ensure the radius of the culs-de-sac is 50' measured to the curb. Please label on site plan.
- It appears that Lot 21 will likely require a waiver from Section 350-30.2.D. All waivers and/or variances must be expressly requested in the Letter of Intent.
- Remove the bold existing property line from the site plan for clarity.
- Provide a single legal description for the property assemblage.

06/12/2024 Application Notes:

- Please review the new <u>application requirements</u> for all submittals.
- Variances (from Title II) and waivers (from Title III) may be requested concurrently with an application. Ensure variances and waivers are demonstrated on the site plan and requested in the letter of intent, if applicable.
- Submit all application documents to <u>p&d-planningzoning@gwinnettcounty.com</u>
- Once the application is received, an internal review meeting will be conducted, and additional information may be requested.

Staff Contacts:

- Building / Architectural Design: Gail Bass, Building Plan Review Manager gail.bass@gwinnettcounty.com or 678-518-6094.
- Fire: Jennifer Folden-Nissen, Fire Planner III jennifer.folden-nissen@gwinnettcounty.com or 678-518-6116.
- Sanitary Sewer: Lorraine Campagne, DWR Section Manager <u>lorraine.campagne@gwinnettcounty.com</u> or 678-376-7058.
- Stormwater: Michael Skarda, Engineer III <u>michael.skarda@gwinnettcounty.com</u> or 678-518-6089.
- Transportation: Brent Hodges, Construction Manager I <u>brent.hodges@gwinnettcounty.com</u> or 678-639-8862.

Important Links (Revised January 1, 2024):

- Application Procedures and Instructions
- <u>Public Hearing Schedule</u>

Important Dates:

- Application Filing Deadline: 3/28/2024
- Planning Commission Meeting: 6/4/2024
- Board of Commissioners Meeting: 6/25/2024

06/12/2024

Gwinnett County Planning Division Rezoning Application Last Updated 12/2023

STANDARDS GOVERNING THE EXERCISE OF THE ZONING POWER

Pursuant to requirements of the United Development Ordinance, the Board of Commissioners finds that the following standards are relevant in balancing the interest in promoting the public health, safety, morality, or general welfare against the right to the unrestricted use of property and shall govern the exercise of the zoning power.

Please respond to the following standards in the space provided or use attachment as necessary:

(A) Whether a proposed rezoning will permit a use that is suitable in view of the use and development of adjacent and nearby property:

Yes, approval of the proposed rezoning application will permit a use that is suitable in view of the use and development of adjacent and nearby properties. The property is located on Springdale rd in close proximity to a variety of land uses including single family, duplex, multifamily and commercial. The property is located on Springdale rd in close proximity to a variety of land uses including uses including single family, duplex, multifamily and commercial.

(B) Whether a proposed rezoning will adversely affect the existing use or usability of adjacent or nearby property:

No, the approval of this application will not adversely affect the existing use or usability of adjacent or nearby properties. The proposed zoning classification is compatible with the existing residential uses of adjacent property.

(C) Whether the property to be affected by a proposed rezoning has reasonable economic use as currently zoned:

Due to the size, location, layout and dimensions of the subject property, the applicant submits that the property does not have reasonable economic use as currently zoned

(D) Whether the proposed rezoning will result in a use which could cause an excessive or burdensome use of existing streets, transportation facilities, utilities, or schools:

No, the approval of the application will not result in an excessive or burdensome uses of the infrastructure systems. The property has convenient access to Springdale rd and access to gravity sewer. The proposed development would enhance the area and provide a community with a more up to date site design and amenities.

(E) Whether the proposed rezoning is in conformity with the policy and intent of the Unified Plan and Future Development Map:

The proposed rezoning application is in conformity with the Gwinnett County 2045 Unified Plan by utilizing one of the recommended zoning classifications for this character areas.

(F) Whether there are other existing or changing conditions affecting the use and development of the property which give supporting grounds for either approval or disapproval of the proposed rezoning:

The proposed development adheres to the established character area referenced in the 2045 Unified Development Plan while simultaneously providing much-needed residential inventory. Notably, the project proposes a density significantly lower than the R60 zoning allows, along with a substantial increase in open space exceeding the minimum requirements by nearly 3 times for that designation.

06/12/2024

Gwinnett County Planning Division Rezoning Application Last Updated 12/2023

REZONING PROPERTY OWNER'S CERTIFICATION

The undersigned below, or as attached, is the owner of the property considered in this application. The undersigned is aware that no application or reapplication affecting the same land shall be acted upon within six (6) months from the date of last action by the Board of Commissioners.

Signature of Property Owner

61 10

Date

T. Brown DOMING

Type or Print Name and Title

06-10-24

Signature of Notary Public

Date

Notary Seal

JORDAN WERRITT Notary Public - State of Georgia Gwinnett County Commission Expires Apr 10, 2028

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06/12/2024

Gwinnett County Planning Division **Rezoning Application** Last Updated 12/2023

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Signature of Property Owner

Date

chi 12 Wne Type or Print Name and Title

Signature of Notary Public

Date

6-10-24



GWINNETT COUNTY
PLANNING AND DEVELOPMENT

06/12/2024

Gwinnett County Planning Division Rezoning Application Last Updated 12/2023

REZONING APPLICANT'S CERTIFICATION

The undersigned below is authorized to make this application. The undersigned is aware that no application or reapplication affecting the same land shall be acted upon within six (6) months from the date of last action by the Board of Commissioners.

Signature of Applicant

2024

Date

Lute SKI

Type or Print Name and Title

G Date

Ocinen



Signature of Notary Public

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CONFLICT OF INTEREST CERTIFICATION FOR REZONING

The undersigned below, making application for a rezoning, has complied with the Official Code of Georgia Section 36-67A-1, et. seq, <u>Conflict of Interest in Zoning Actions</u>, and has submitted or attached the required information on the forms provided.

2024 Lute Kozarki

ature of Applicant

Date

Type of Print Name and Title

 Signature of Applicant's Attorney or Representative
 Date
 Type or Pills Name and Title

 Image: Constraint of Applicant's Attorney or Representative
 Date
 Expires GEORGIA 10/4/2025

 Image: Constraint of Applicant's Attorney or Representative
 Date
 Expires GEORGIA 10/4/2025

 Signature of Notary Public
 Date

DISCLOSURE OF CAMPAIGN CONTRIBUTIONS

Have you, within the two years immediately preceding the filing of this application, made campaign contributions aggregating \$250.00 or more to a member of the Board of Commissioners?

Yes

No

Luter Rozaski (Your Name)

If the answer is yes, please complete the following section:

NAME AND OFFICAL POSITION OF GOVERNMENT OFFICIAL	CONTRIBUTIONS (List all which aggregate to \$250 or More)	DATE CONTRIBUTION WAS MADE (Within last two years)

Attach additional sheets if necessary to disclose or describe all contributions.

Date

GWINNETT COUNTY PLANNING AND DEVELOPMENT

RECEIVED VERIFICATION OF CURRENT PAID PROPERTY TAXES FOR REZONING

06/12/2024

The undersigned below is authorized to make this application. The undersigned certifies that all Gwinnett County property taxes billed to date for the parcel listed below have been paid in full to the Gwinnett County Tax Commissioner. In no case shall an application or reapplication for rezoning be processed without such property verification.

A SEPARATE VERIFICATION FORM MUST BE COMPLETED FOR EACH TAX PARCEL INCLUDED IN THE REZONING REQUEST.

Parcel I.D. Number: 5004 006 (Map Reference Number)

Signature of Applicant

Type or Print Name and Title

Marager / owner

PLEASE TAKE THIS FORM TO THE TAX COMMISSIONERS OFFICE AT THE GWINNETT JUSTICE AND ADMINISTRATION CENTER, 75 LANGLEY DRIVE. <u>THIS FORM MUST BE</u> <u>SIGNED BY A REPRESENTATIVE OF THE TAX COMMISSIONER'S OFFICE.</u>

TAX COMMISSIONERS USE ONLY

Payment of all property taxes billed to date for the above referenced parcel has been verified as paid current and confirmed by the signature below.

Lucy Broadnax	Tax Services Associate II
Name	Title
06/13/2024	
Date	12P2C1



Gwinnett County Planning Division Rezoning Application Last Updated 12/2023

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VERIFICATION OF CURRENT PAID PROPERTY TAXES FOR REZONING

The undersigned below is authorized to make this application. The undersigned certifies that all Gwinnett County property taxes billed to date for the parcel listed below have been paid in full to the Gwinnett County Tax Commissioner. In no case shall an application or reapplication for rezoning be processed without such property verification.

A SEPARATE VERIFICATION FORM MUST BE COMPLETED FOR EACH TAX PARCEL INCLUDED IN THE REZONING REQUEST.

Parcel I.D. Number: 5004 007 (Map Reference Number)

Signature of Applicant

Type or Print Name and Title

2024 Date

Marase

PLEASE TAKE THIS FORM TO THE TAX COMMISSIONERS OFFICE AT THE GWINNETT JUSTICE AND ADMINISTRATION CENTER, 75 LANGLEY DRIVE. <u>THIS FORM MUST BE</u> <u>SIGNED BY A REPRESENTATIVE OF THE TAX COMMISSIONER'S OFFICE.</u>

TAX COMMISSIONERS USE ONLY

Payment of all property taxes billed to date for the above referenced parcel has been verified as paid current and confirmed by the signature below.

Lucy Broadnax

Name

Tax Services Associate II

Title

06/13/2024

Date

GWINNETT COUNTY
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06/12/2024

Letter of Intent

PLEASE ATTACH A LETTER OF INTENT EXPLAINING WHAT IS PROPOSED

PROPERTY OWNERS

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3006 Springdale Road Parcel ID #5004 007 David Seungho Chi and Oak Chi 3006 Springdale Rd. Snellville GA 30039

2946 Springdale Road Parcel ID #5004 006 Bloomingdale T. Brown 2946 Springdale Rd Snellville GA 30039

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6/6/2024

Applicant: REN-MF, LLC

Property: Tax Parcel IDs: R5004 007 R5004 006

±19.48 Acres of Land Located at 3006 Springdale Road, Snellville, GA

Rezoning from R100, to R60

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The Applicant, REN-MF, LLC, submits this Letter of Intent and request to rezone an approximate 19.48 acre tract of land at 3006 & 2946 Springdale Road, the subject parcel is Land Lot 4 of the 5th district of Gwinnett County. The parcel is situated along the southern side of Springdale Road, east of its intersection with Highpoint Rd and west of its intersection with Greenvalley Road. The property is made up of two tax parcels that include an unoccupied single wide, an older home with part time residents and an additional older home with full time residents. Various makeshift pole barns and sheds are scattered on the lots as well. Imagery from the Gwinnett County GIS is shown below for reference and a survey was prepared by Precision Planning in March of 2024, that survey is attached to this application. The current owner of the 3006 Springdale road is property is David Chi, and the owner of 2946 Springdale road is Blomingdale Brown.



The property is currently zoned R100 (Single Family Residence District) pursuant to the Gwinnett County Unified Development Ordinance (the "UDO"). The applicant seeks approval to rezone the property to R60 (Single Family Residence District) to develop the property as a thoughtful and attractive single family detached community. The community includes green space accessible from all homes by sidewalk and

06/12/2024

walkways, a large naturally occurring water feature that will serve as a community amenity, and detached homes. The proposed plan includes 49 homes and the design is intended to ensure that the community can accommodate a range of household sizes, ensure that the project is financially viable, honor the existing natural elements of the site and best align with customer demand.

Description and area

The parcels that adjoin the subject property are all zoned residential. The surrounding parcels are all zoned residential with varying densities. Within an approximate half mile of the subject property there are some higher intensity uses including RM8, RDU, OI, C1 and C2.

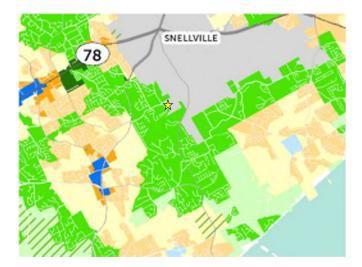


A map of the surrounding zoning classifications to the Property is shown below.

The Future Development Map of the Gwinnett County 2045 Unified Plan classifies the properties character area as Suburban Residential and points out that it is inside of the Snellville Halo. The 2045 Unified Plan also highlights the challenges Gwinnett faces as it continues to grow and see outsized demand for housing while simultaneously having a limited number of remaining sites with access to water and sewer. While the requested R-60 zoning is one of the recommended zonings for the Suburban Residential character area the subject site delivers much more than the R60 zoning requires with the added benefit of immediate access to gravity sewer. The subject site offers nearly three times (5.61 acres) the required open space for R60 zoning in Gwinnett county, a large pond, and walking path, all within 2.5 miles (6 min drive) of downtown Snellville. At 2.5 units per acre the subject site will represent approximately half of the max density of Gwinnett's R60 zoning which honors the suburban lifestyle that the 2045 Future Development Map suggests should remain in this area. Given Gwinnett's commitment to high quality residential developments the subject site is uniquely positioned to provide a quality residential development and meet the objectives of the 2045 future development map, while making use of gravity sewer.

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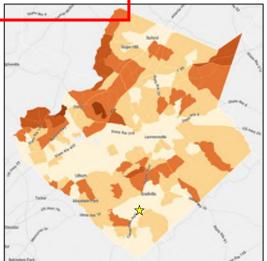


Project Summary

The site plan prepared by Precision Planning was filed with this application proposes to develop the subject property into a warm & inviting residential community that offers a range of home sizes, where families can find their perfect home amidst outdoor gathering spots, a 1.27 acre pond surrounded by walk trails and green space. The proposed rezone from R-100 to R-60, would allow the development of 49 homes over 19.48 acres for a development density of 2.52 units per acre, well below the maximum permitted under R-60 density of 4 units per acre. The proposed development would include 49 single family detached homes on varying lot sizes. The proposed single family detached homes show a 20' rear buffer and a 15' front building setback complemented by an attached two car garage with ample driveway space for guests. Architectural details will feature cementitious siding on all sides with brick accents for texture. The development will utilize a single access to Springdale Rd which will be landscaped and maintained along with other common areas in the community by a Homeowners Association. While the home sizes will vary, the single family detached homes will comfortably exceed the minimum square feet of heated and cooled space as set forth by the Gwinnett County UDO with a minimum of 1,000SF. The proposed development would provide thoughtful and appropriate site design, amenities and housing that is compatible with the surrounding land uses and conforms with Gwinnett's 2045 Unified Plan. Product elevations are filed with this application.

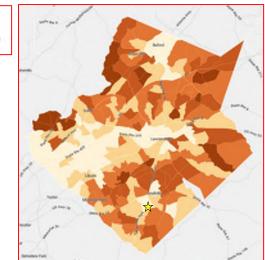
The subject property is located in a census tract that falls in the 20th percentile for all of Gwinnett County in terms of median home value and median household income according to the 2020 American Community Survey (ACS) by the US Census Bureau. The applicant believes that this project will help to continue to drive Gwinnett County growth across all submarkets in a way that is consistent with the Gwinnett county 2045 plan and serve as a catalyst to encourage more thoughtful and inclusive developments in the future throughout the community.

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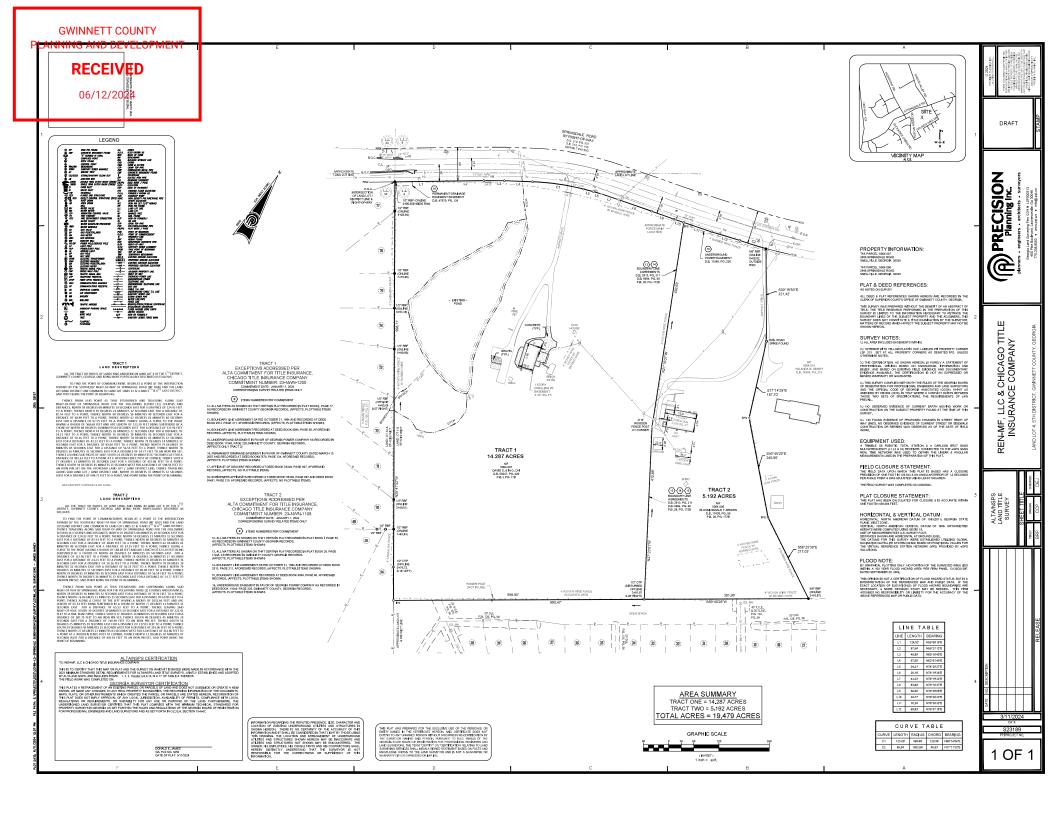




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Boundary Survey & Legal Description



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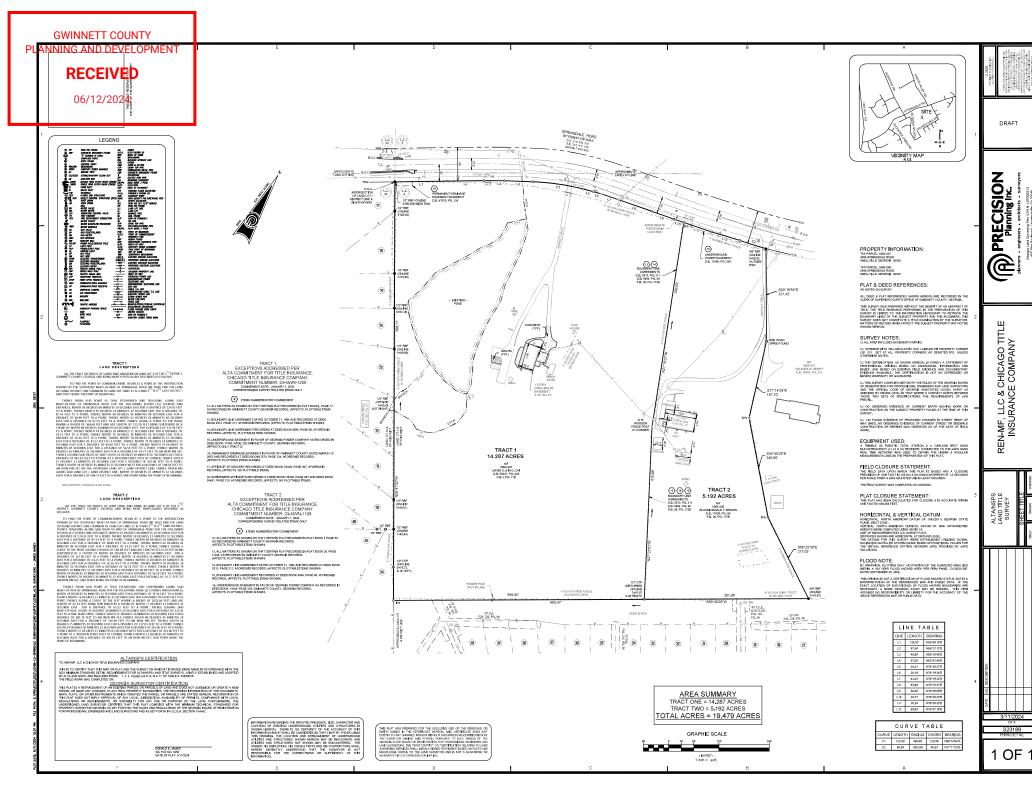
LAND DESCRIPTION

All the tract or parcel of land lying and being in Land Lot 4 of the 5th District, Gwinnett County, Georgia and being more particularly described as follows:

To find the **POINT OF COMMENCEMENT**, begin at a Point at the Intersection formed by the Southerly Right-of-Way of Springdale Road (80' R/W) and the Land Lot/Land District Line common to Land Lot Lines 32 & 4 and 5th & 6th Land District, said point being THE POINT OF BEGINNING.

THENCE from said Point as thus established and traveling along said Right-of-Way of Springdale Road for the following fourteen (14) courses and distances, North 59 degrees 08 minutes 19 seconds East for a distance of 124.92 feet to a Point; THENCE North 59 degrees 21 minutes 12 seconds East for a distance of 87.54 feet to a Point; THENCE North 60 degrees 16 minutes 40 seconds East for a distance of 48.89 feet to a Point; THENCE North 62 degrees 01 minutes 40 seconds East for a distance of 67.55 feet to a Point; THENCE along a curve to the right having a radius of 568.68 feet and arc length of 123.20 feet being subtended by a chord of North 68 degrees 14 minutes 04 seconds East for a distance of 122.96 feet to a Point; THENCE North 74 degrees 26 minutes 27 seconds East for a distance of 24.21 feet to a Point; THENCE North 76 degrees 19 minutes 36 seconds East for a distance of 20.16 feet to a Point; THENCE North 78 degrees 19 minutes 32 seconds East for a distance of 43.23 feet to a Point; THENCE North 79 degrees 14 minutes 37 seconds East for a distance of 83.00 feet to a Point; THENCE North 79 degrees 39 minutes 05 seconds East for a distance of 56.54 feet to a Point; THENCE North 78 degrees 36 minutes 32 seconds East for a distance of 24.77 feet to an Iron Pin Set; THENCE North 78 degrees 36 minutes 32 seconds East for a distance of 70.34 feet to a Point; THENCE North 76 degrees 51 minutes 15 seconds East for a distance of 69.83 feet to a Point; THENCE along a curve to the left having a radius of 1052.66 feet and arc length of 65.54 feet being subtended by a chord of North 77 degrees 11 minutes 32 seconds East for a distance of 65.53 feet to a Point; THENCE leaving said Right-of-Way, South 30 degrees 19 minutes 50 seconds East for a distance of 221.42 feet to a Rail Road Spike; THENCE South 17 degrees 14 minutes 29 seconds East for a distance of 187.70 feet to an Iron Pin Set; THENCE South 40 degrees 45 minutes 29 seconds East for a distance of 240.90 feet to an Iron Pin Set; THENCE South 56 degrees 25 minutes 39 seconds East for a distance of 217.03 feet to a Point; THENCE South 59 degrees 45 minutes 25 seconds West for a distance of 990.47 feet to an Iron Pin Set on the aforesaid Land Lot / Land District Line; THENCE traveling along said Land Lot / Land District Line, North 29 degrees 47 minutes 52 seconds West for a distance of 998.71 feet to a Point, said point being THE POINT OF BEGINNING.

Said property contains 19.479 Acres.

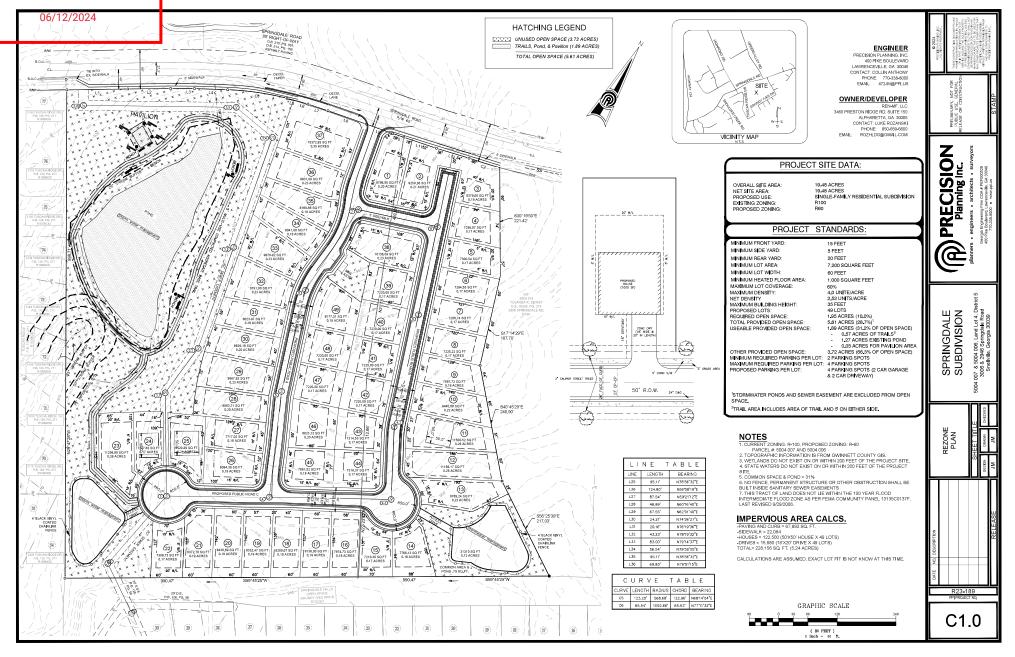


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Site Plan

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Architectural Elevations















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FIBER CEMENT LAP SIDING







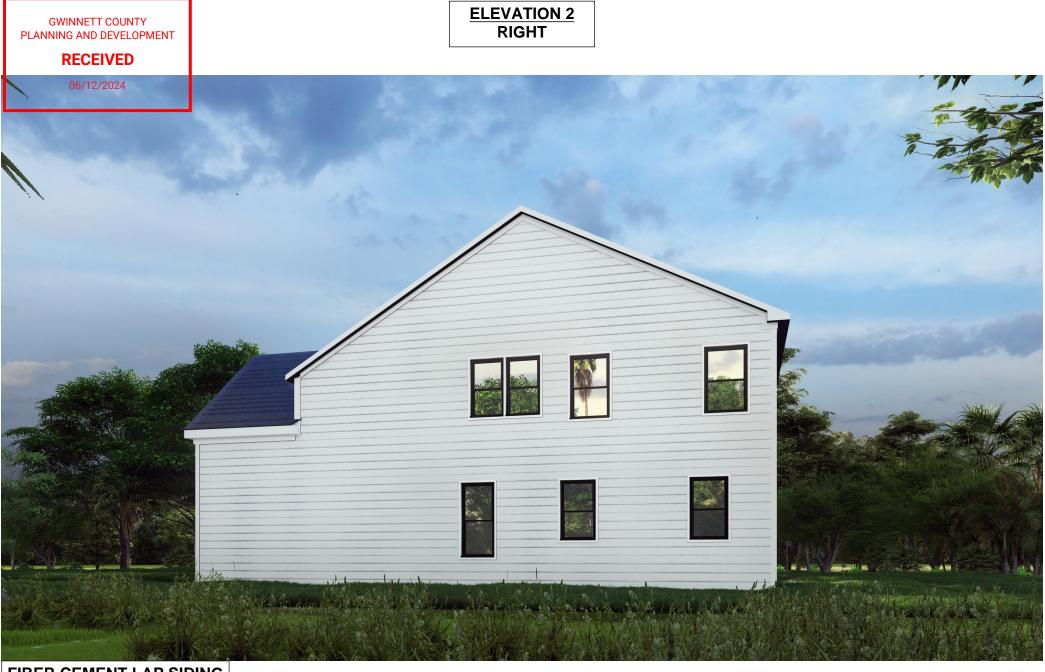
FIBER CEMENT LAP SIDING



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GWINNETT COUNTY



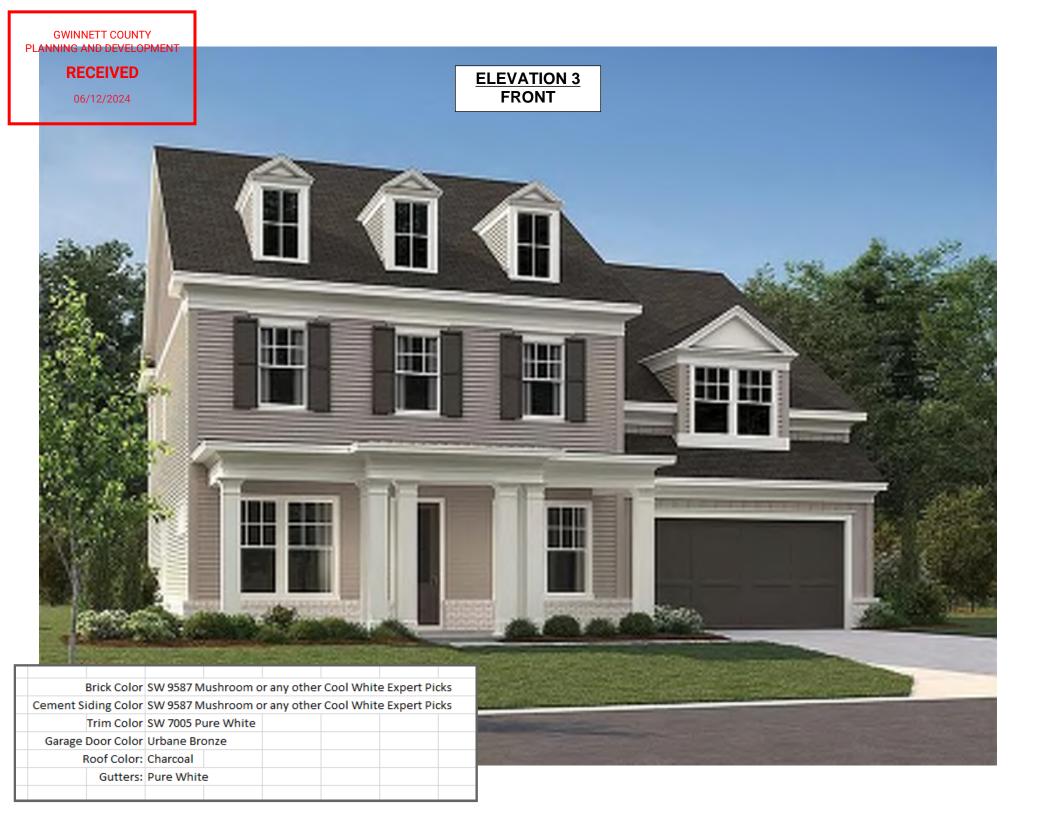


FIBER CEMENT LAP SIDING









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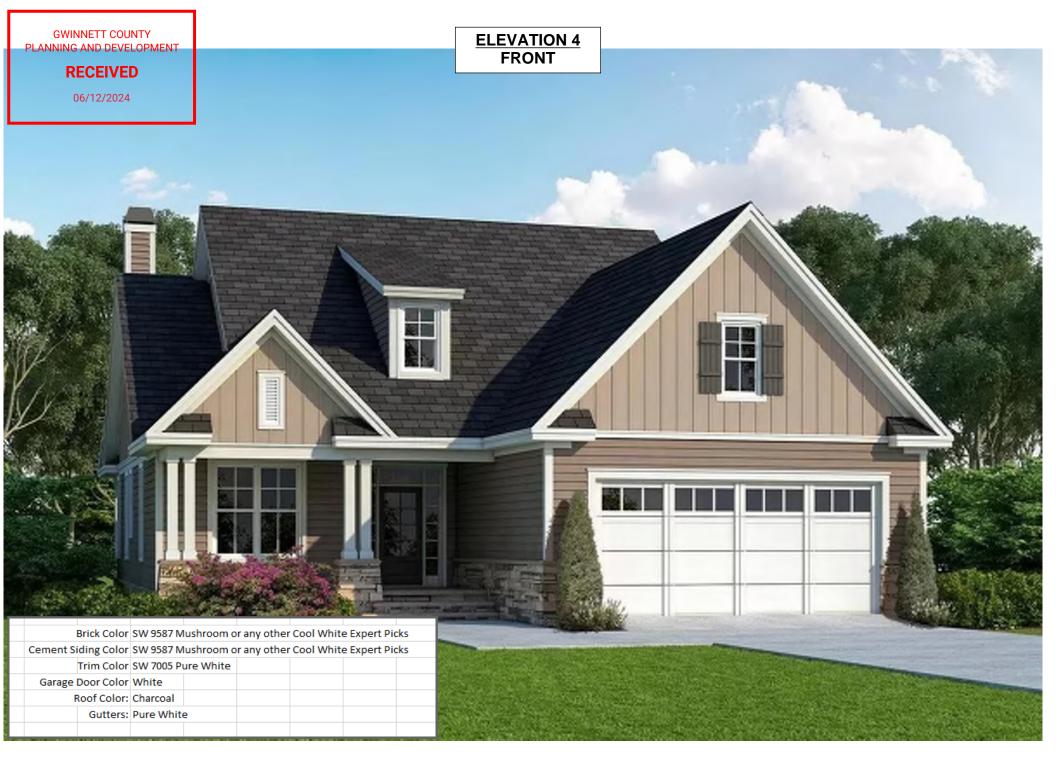


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FIBER CEMENT LAP SIDING

ELEVATION 4 LEFT

FIBER CEMENT LAP SIDING



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Traffic Study

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Level 2 Traffic Impact Study

Springdale Residential Subdivision Gwinnett County, Georgia

June 11, 2024



in collaboration with



ACAMPORA TRAFFIC, LLC

Level 2 Traffic Impact Study

Springdale Residential Subdivision Gwinnett County, Georgia

prepared for:

REN-MF, LLC 3460 Preston Ridge Road, Suite 150 Alpharetta, Georgia 30005

June 11, 2024





in collaboration with



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Introduction, Project Location, and Project Description

This study assesses the traffic impact of a proposed residential subdivision in Gwinnett County, Georgia. The site is located on the south side of Springdale Road east of Highpoint Road, as shown in Figure 1. The project will consist of a 49 lot detached single family home residential subdivision. Vehicular access will be provided at one full-movement access on Springdale Road. Figure 2 presents the site plan for the project.

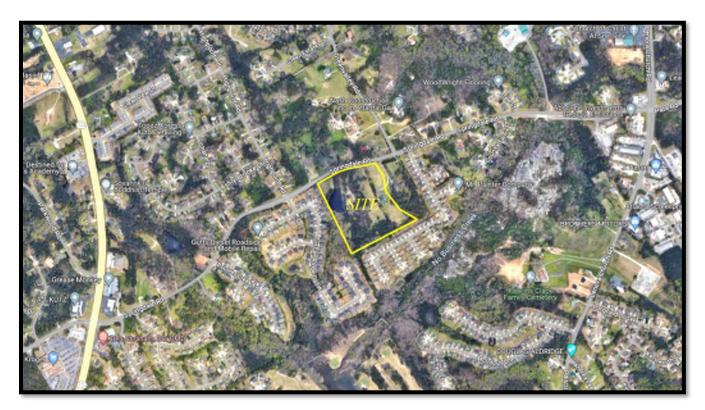


Figure 1 – Site Location Map

This traffic impact study was prepared for the proposed development according to the standards set forth in Gwinnett County's *Traffic Impact Study Guidelines* dated June 30, 2023. Based on peak hour trip projections made using the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition (the current edition), the proposed 49 home subdivision is projected to generate 51 p.m. (the higher of the a.m./p.m.) peak hour trips. Based on those trips, Gwinnett County requires a Level 2 Traffic Study (required for projects that will generate 21 to 249 peak hour trips). This traffic impact study includes the tasks for a Level 2 Study, as set forth in the County's Guidelines, Table 1: Traffic Impact Study Scope.



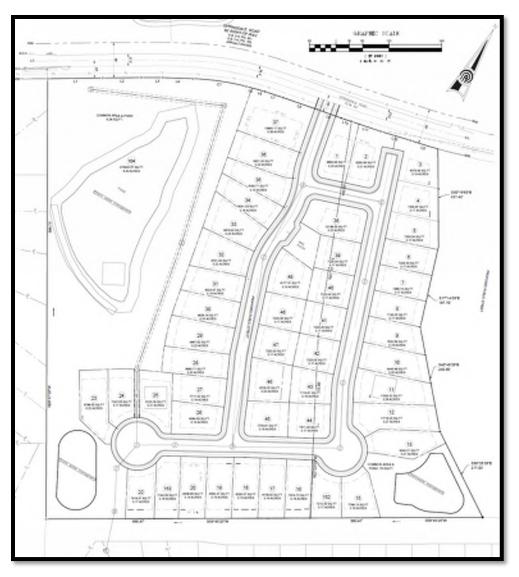


Figure 2 – Site Plan

Existing and Proposed Land Use

The subject property is currently zoned R-100 – Single Family Residence District. The proposed zoning is R-60 – Single Family Residence District.

Trip Generation Estimate

The volume of traffic that will be generated by the subdivision was calculated using the equations in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11^{th} Edition (the current edition). ITE Land Use 210 – Single Family Detached Housing was chosen as representative of the project. The trip generation is summarized in Table 1.



Land Use	ITE	Size	A.	M. Peak	Hour	P.1	24 Hour		
	Code	Size	In	Out	2-Way	In	Out	2-Way	2-Way
Single Family Detached Housing	210	49 homes	10	29	39	32	19	51	524

Table 1 – Proposed Subdivision Trip Generation

The proposed subdivision will generate 39 trips in the morning peak hour, 51 trips in the evening peak hour, and 524 two-way daily trips.

Description of Existing Transportation Facilities

Springdale Road is a two lane collector that begins at a signalized intersection at SR 124 (west of which it is named Everson Road), passes the subject site, then terminates at a signalized intersection at Lenora Church Road (east of which the road is named Pate Road. The terrain along Springdale Road is gently rolling and the posted speed limit in the vicinity of the site is 35 mph. The road primarily provides access to single family homes and residential subdivisions, with small commercial developments near the SR 124 and Lenora Church Road intersections. Gwinnett County estimated an Average Daily Traffic (ADT) volume of 9,104 vehicles per day (vpd) on Springdale Road between SR 124 and Lenora Church Road, based on a 24-hour traffic volume count collected in June 2021.

Pedestrian, Bicycle, and Transit Accessibility

Springdale Road has a rural cross-section adjacent to the site, with no shoulder, curb-and-gutter, or sidewalk. There is curb-and-gutter on both sides of the road and a sidewalk on the south side of the road just west of the subject site, and there are other sporadic sections with sidewalk along the frontages of newer developments. There are no dedicated bicycle lanes along area roadways. There is no regularly scheduled mass transit service in the walkable area. The proposed subdivision site plan includes sidewalks along both sides of all internal streets.

Adjacent Access Spacing

The adjacent access spacing was measured along Springdale Road in each direction from the proposed access location. There are individual single family homes' private driveways approximately 280 feet to the east of the proposed access, with the next intersection being Greenvalley Road located approximately 460 feet to the east. West of the proposed access there is one single family home private driveway at approximately 260 feet that will be eliminated as the property is incorporated into the proposed development. There is one additional single family house private driveway at approximately 665 feet and the next intersection to the west is at Highpoint Road, at approximately 1,010 feet. The Gwinnett County Unified Development Ordinance (UDO) Table 900.3 provides the minimum separation requirements for driveways, public roads, and side streets. That table is reproduced below as Table 2. For a road with a posted speed limit of 35 mph, the minimum driveway spacing is 244 feet. All of the private driveways and adjacent intersections identified above are located at distances greater than 244 feet from the proposed access location.



Table 900.3. Minimum Separation for D	viveways, Public Roads, and Side Streets.
Posted Speed	Minimum
MPH	Driveway Spacing
25	125
30	219
35	244
40	294
45	369
50	419
55	444
60	494
65	550

Table 2 – Gwinnett UDO Minimum Separation for Driveways, Public Roads, and Side Streets

Figure 3 presents an aerial photograph of the subject section of Springdale Road with the distances scaled from the proposed access location to the next adjacent intersections to the east and west.



Figure 3 – Aerial Photograph of Springdale Road Showing Distances to Adjacent Intersections

Intersection Sight Distance

The available intersection sight distance from the location of the proposed project access to the west is approximately 390 feet. To the east, the available intersection sight distance is also approximately 390 feet. Table 900.2 – Sight Distance, from the Gwinnett County UDO, is reproduced below as Table 3.

ACAMPORA TRAFFIC, LLC

			Table 900.2. 5	ight Distance			
		SIG	IT DISTANCE (F	EET)			
SPEED, MPH	2 Lane		3 Lanes		4 Lanes		S Lanes
	SDL=SDR	SDL	SDR	SDL	SDR	SDL	SDR
25	280	280	295	280	310	295	335
30	335	335	355	335	375	355	400
35	390	390	415	390	440	415	465
40	445	445	475	445	500	475	530
45	500	500	530	500	565	530	600
50	555	555	590	555	625	590	665
55	610	610	650	610	690	650	730
60	665	665	710	665	750	710	795
65	720	720	765	720	815	765	860

Table 3 – Gwinnett UDO Sight Distance Standards

Table 3 reveals that the minimum required intersection sight distance at the project access on two-lane Springdale Road, with a posted speed limit of 35 mph, is 390 feet to the left and to the right. The available sight distance in each direction is right at the minimum standard. To the west, the limiting factor for the sight distance is the curvature of the road coupled with vegetation along the south side of the road. To the east, the limiting factor is a slight crest of a hill between the proposed access location and Greenvalley Road. The measurements of the sight distances are not exact because the proposed access is not constructed yet. From these approximate measurements, it appears that sufficient sight distance can be achieved in both directions at the project access. It is recommended that the project site/civil engineer locate and design the access to ensure that the required sight distances are achieved.

Programmed Improvements

Programmed (scheduled and funded) and planned (anticipated) transportation infrastructure projects in the vicinity of the proposed development were researched. No projects were identified that could affect traffic patterns, volumes, or capacity at the study intersections or project access by the buildout of the proposed development.

Internal Site Circulation Review

The proposed internal site roadway plan is very basic and consists of one entry roadway that will make a single loop through the small subdivision. There will be one short cul-de-sac connecting to the loop. The design of the street system is expected to function well. All entering vehicles are anticipated to flow into the site with no impediment. The main linear roadway is expected to comfortably accommodate exiting queues.



Existing Traffic Volumes

Existing full turning movement peak hour traffic volume counts were collected at the following intersections in the vicinity of the site:

- 1. Springdale Road at Highpoint Road
- 2. Springdale Road at Greenvalley Road

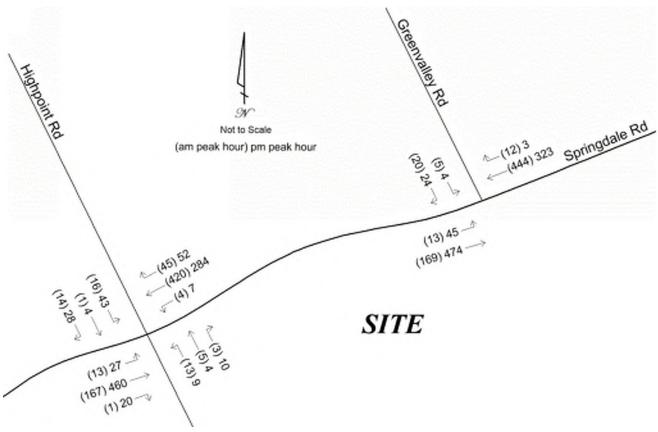
The locations of the traffic counts are presented in Figure 4.

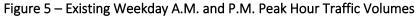


Figure 4 – Traffic Volume Count Locations

The intersection counts were collected on Tuesday, June 4, 2024 from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 6:00 p.m. From the intersection turning movement count data, the highest four consecutive 15-minute interval volumes at each intersection, during each time period, were determined. The counts were collected during summer recess in area schools, which could affect typical volumes and travel patterns. The Georgia DOT provides recommended adjustment factors by month in their publication *Georgia's Traffic Monitoring Guide*, 2018. Table 7: Factor Groups, in that document, assigns a Factor Group of 4 to the area roadways, based on the description "urban/small urban major collectors, minor collectors, and locals". Table 4 in that document recommends a monthly adjustment factor 1.00 for June, which would not change the counted volumes. These existing counts are shown in Figure 5. The raw count data is found in Appendix A.







Existing Intersection Operations

Existing traffic operations were analyzed at the counted intersections using Synchro software, version 12, in accordance with the methodology presented in the Transportation Research Board's 2022 *Highway Capacity Manual* 7th Edition (*HCM 7*). This methodology is presented in Appendix B. The analysis was based on the existing volumes, lanes, and control. The results of the analysis are shown in Table 4. Computer printouts containing detailed results of the existing analysis are located in Appendix C. Levels of service and delays are provided for each overall intersection and for each controlled approach or movement. Locations that operate unacceptably (LOS E or LOS F) are presented in bold type.



	A.M. Pe	eak Hour	P.M. Pe	eak Hour
Intersection / Approach	LOS	Delay (s/veh)	LOS	Delay (s/veh)
1. Springdale Road at Highpoint Road (side street stop sign)	А	1.6	А	3.0
northbound approach	С	16.1	C	18.8
southbound approach	С	15.2	С	24.6
eastbound left turn	A	8.5	А	8.2
westbound left turn	A	7.7	А	8.6
2. Springdale Road at Greenvalley Road (side street stop sign)	A	0.8	А	0.9
southbound approach	В	12.6	В	12.0
eastbound left turn	A	8.5	А	8.2

Table 4 – Existing Intersection Operations

The existing analysis reveals acceptable operating conditions at all study intersections and controlled approaches or movements. No mitigation or improvements are identified for either intersection.

Project Trip Distribution and Assignment

The trips that will be generated by the proposed subdivision were distributed and assigned to the roadway network. The trip distribution percentages indicate what proportion of the project's trips will travel to and from various directions. The trip distribution percentages for the subdivision were developed based on the locations and proximity of likely trip origins and destinations including regional employment centers, retail and offices in the area, nearby schools, other regional trip attractors, and the major routes of travel in the area. The new project trips, presented previously in this report in Table 1, were assigned to the roadway network based on the distribution percentages. The trip distribution percentages and the a.m. and p.m. peak hour trips expected to be generated by the proposed subdivision are shown in Figure 6.



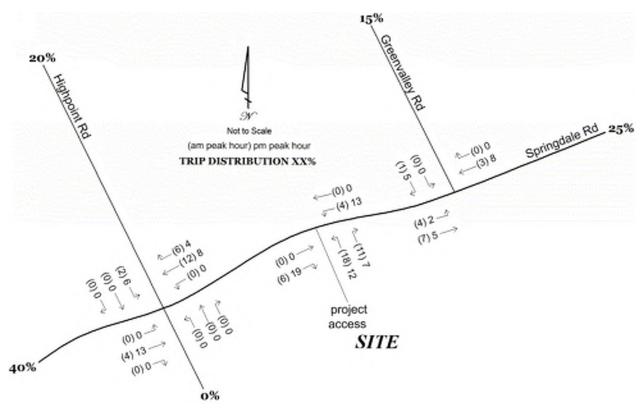


Figure 6 – Proposed Subdivision A.M. and P.M. Peak Hour Trips and Distribution Percentages

Auxiliary Lane Requirements at Project Access

The project access on Springdale Road is under the jurisdiction of Gwinnett County. Therefore, in order to determine if an eastbound right turn lane or a westbound left turn lane is required on Springdale Road at the subdivision access, the requirements set forth in the Gwinnett County Unified Development Ordinance, Section 900-30. Project Access Improvements, were evaluated. The Code states:

900-30.1 Project access improvements for single-family detached, single-family attached, and duplex residential subdivisions.

- A. When property that abuts upon an existing or proposed County road is to be developed or redeveloped as a single-family detached, attached, or duplex subdivision and the County street will provide access to the property, project access improvements to the County road (deceleration lanes, turn lanes, etc.) shall be provided by the developer as required herein.
- B. A deceleration lane shall be required to be provided at each project driveway or subdivision street entrance that is provided street access to a Minor Collector Street or Major Thoroughfare. In the event a street has an existing or proposed median, and the developer desires to construct a median break to serve the subdivision, a left turn lane leading to the median break shall be required to be provided by the developer



if approved by the Department of Transportation and shall meet the standards contained herein. [details regarding median breaks removed, not applicable]. Meeting the spacing criteria is not, in itself, an indication that median openings will be allowed.

- C. Deceleration lanes shall have a length of 200 feet, with an additional 50 foot taper length, a pavement width of 12 feet (exclusive of curb and gutter) and shall be provided with curb and gutter. Additional right-of-way to accommodate the deceleration lane and an 11 foot shoulder measured from back of curb shall be dedicated by the developer to Gwinnett County at no cost. Associated stormwater infrastructure as deemed necessary by the construction of the deceleration lane shall also be required.
- D. A left turn lane shall be provided into each project driveway or subdivision street that accesses a Minor Collector or Major Thoroughfare in accordance with the Department of Transportation's "Criteria and Guidelines for Left Turn Lanes."
- E. Other project access improvements may be required by the Department upon the recommendation of the Department of Transportation in order to ensure adequate site access, pedestrian access, convenience and safety to the motoring public.
- F. The developer shall be responsible for the relocation of public or private utilities and stormwater infrastructure, as may be occasioned by the required Project Access Improvements.

Springdale Road is a collector and, therefore, according to the Code, an eastbound right turn lane is required on Springdale Road at the subdivision access.

In order to determine the need for a westbound left turn lane, the standards for providing those lanes were reviewed in Gwinnett County DOT's Criteria and Guidelines for Left Turn Lanes. Table 1 in that standard, which provides the criteria for left turn lanes for residential developments, is reproduced below as Table 5.

Posted Speed	2 Lane Routes ADT		More Than 2 Lan Al	
Limit (mph)	<6000	>=6000	<10,000	>=10,000
30 to 35	120 Lots	75 Lots	160 Lots	120 Lots
40 to 50	100 Lots	65 Lots	130 Lots	100 Lots
>= 55	75 lots	55 Lots	100 Lots	75 Lots

Table 5 – Gwinnett County's Left Tur	n Lane Criteria for Residential Developments
--------------------------------------	--

* Zoning Districts R-XX(X)

For a two lane road with a posted speed limit of 35 mph and an ADT greater than 6,000 vpd (9,104 vpd in 2021), the number of lots above which a left turn lane is required is 75 lots. The proposed subdivision consists of 49 lots. This is below the 75 lot threshold and, therefore, a westbound left turn lane is not required on Springdale Road at the subdivision access.

Springdale Subdivision, Gwinnett County Level 2 Traffic Impact Study



Conclusions and Recommendations

This study assesses the traffic impact of a proposed residential subdivision in Gwinnett County. The site is located on the south side of Springdale Road east of Highpoint Road and the project will consist of a 49 lot detached single family home residential subdivision. Vehicular access will be provided at one full-movement access on Springdale Road.

This traffic impact study was prepared for the proposed development according to the standards set forth in Gwinnett County's *Traffic Impact Study Guidelines* dated June 30, 2023. Based on the projected 51 trip peak hour project trip generation, Gwinnett County requires a Level 2 Traffic Study. The following are the findings and recommendations of this study:

- 1. The proposed subdivision will generate 39 trips in the morning peak hour, 51 trips in the evening peak hour, and 524 two-way daily trips.
- 2. The Gwinnett County DOT recorded an AADT volume of 9,104 vpd on Springdale Road in 2021.
- 3. There are no sidewalks on Springdale Road adjacent to the site, but there are sidewalks along sporadic sections of Springdale Road along newer development frontages. There are no dedicated bicycle lanes along area roadways. There is no regularly scheduled mass transit service in the walkable area. The proposed subdivision site plan includes sidewalks along both sides of all internal streets.
- 4. For a road with a posted speed limit of 35 mph, the minimum driveway spacing is 244 feet. All of the private driveways and adjacent intersections are located along Springdale Road at distances greater than 244 feet from the proposed access location.
- 5. The available intersection sight distance from the location of the proposed project access to the west is approximately 390 feet. To the east, the available intersection sight distance is also approximately 390 feet. The minimum required intersection sight distance at the project access on two-lane Springdale Road, with a posted speed limit of 35 mph, is 390 feet to the left and to the right. It appears that sufficient sight distance can be achieved in both directions at the project access. It is recommended that the project site/civil engineer locate and design the access to ensure that the required sight distances are achieved.
- 6. The existing analysis reveals acceptable operating conditions at all study intersections and controlled approaches or movements. Therefore, no mitigation or improvements are identified for either study intersection.
- 7. The County UDO requires an eastbound exclusive right turn lane on Springdale Road at the project access.
- 8. The analysis of the County's left turn lane criteria determined that a westbound exclusive left turn lane is not required on Springdale Road at the project access.



- 9. One entering lane and one exiting lane are recommended in the project access roadway, with the exiting approach controlled by side street stop sign and accompanying stop bar.
- 10. The project civil/site engineer should comply with all applicable design standards at the project access and all internal roadways, including sight distances, driveway spacing, turn lane storage and taper lengths (when required), turn radii, driveway widths, islands, angles with the adjacent roadways, and grades.



Appendix A

Traffic Count Data



Tel: (770) 578-8158 | Fax: (770) 578-8159

TMC Data Springdale Rd @ Highpoint Rd Snellville, GA 7-9 AM | 4-6 PM

File Name : 49020001 Site Code : 49020001 Start Date : 6/4/2024 Page No : 1

							Gr	oups P	rinted	- Cars, B	uses a	nd Tru	ıcks								
			ghpoint					ghpoint		, i i i i i i i i i i i i i i i i i i i			ingdal					ingdale			[
			rthbou					uthbou					astbou					estbou			ļ
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	2	2	2	0	6	1	0	5	0	6	2	38	0	0	40	2	115	10	0	127	179
07:15 AM	5	1	0	0	6	5	1	5	0	11	4	28	0	0	32	1	112	10	0	123	172
07:30 AM	5	1	1	0	7	5	0	1	0	6	1	48	0	0	49	0	95	15	0	110	172
07:45 AM	1	1	0	0	2	5	0	3	0	8	6	53	1	0	60	1	98	10	0	109	179
Total	13	5	3	0	21	16	1	14	0	31	13	167	1	0	181	4	420	45	0	469	702
08:00 AM	2	1	0	0	3	9	0	5	0	14	3	38	0	0	41	0	76	16	0	92	150
08:15 AM	2	1	0	0	3	3	3	4	0	10	2	43	0	0	45	0	89	15	0	104	162
08:30 AM	4	2	1	0	7	13	1	3	0	17	0	55	0	0	55	0	79	14	0	93	172
08:45 AM	3	1	2	0	6	7	0	3	0	10	0	39	1	0	40	2	77	7	0	86	142
Total	11	5	3	0	19	32	4	15	0	51	5	175	1	0	181	2	321	52	0	375	626
*** BREAK	***																				
04:00 PM	5	2	0	0	7	7	0	3	0	10	4	91	2	0	97	2	67	13	0	82	196
04:15 PM	1	0	2	0	3	18	3	2	0	23	2	114	2	0	118	3	59	8	0	70	214
04:30 PM	2	0	0	0	2	15	0	8	0	23	8	115	5	0	128	1	61	13	0	75	228
04:45 PM	2	1	0	0	3	17	0	2	0	19	12	93	3	0	108	1	73	9	0	83	213
Total	10	3	2	0	15	57	3	15	0	75	26	413	12	0	451	7	260	43	0	310	851
05:00 PM	2	0	3	0	5	9	0	10	0	19	3	106	6	0	115	2	68	12	0	82	221
05:15 PM	1	1	1	0	3	8	1	5	0	14	4	138	8	0	150	0	83	18	0	101	268
05:30 PM	1	2	5	0	8	18	0	7	0	25	9	108	2	0	119	2	74	9	0	85	237
05:45 PM	5	1	1	0	7	8	3	6	0	17	11	108	4	0	123	3	59	13	0	75	222
Total	9	4	10	0	23	43	4	28	0	75	27	460	20	0	507	7	284	52	0	343	948
Grand Total	43	17	18	0	78	148	12	72	0	232	71	1215	34	0	1320	20	1285	192	0	1497	3127
Apprch %	55.1	21.8	23.1	0		63.8	5.2	31	0		5.4	92	2.6	0		1.3	85.8	12.8	0		1
Total %	1.4	0.5	0.6	0	2.5	4.7	0.4	2.3	0	7.4	2.3	38.9	1.1	0	42.2	0.6	41.1	6.1	0	47.9	1

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TMC Data Springdale Rd @ Highpoint Rd Snellville, GA 7-9 AM | 4-6 PM

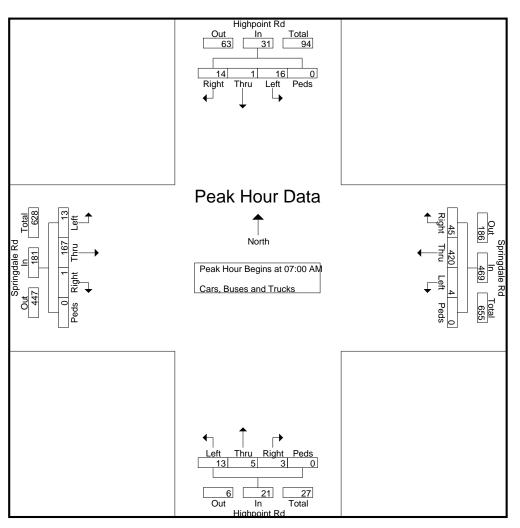
 File Name
 : 49020001

 Site Code
 : 49020001

 Start Date
 : 6/4/2024

 Page No
 : 2

			ghpoin orthbou				Highpoint Rd Southbound						Springdale Rd Eastbound						Springdale Rd Westbound						
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total				
Peak Hour Analysi	s From 07	7:00 AM	to 08:45 A	AM - Peal	k 1 of 1																				
Peak Hour for	Entire	Inters	ection 1	Begins	at 07:00	AM																			
07:00 AM	2	2	2	0	6	1	0	5	0	6	2	38	0	0	40	2	115	10	0	127	179				
07:15 AM	5	1	0	0	6	5	1	5	0	11	4	28	0	0	32	1	112	10	0	123	172				
07:30 AM	5	1	1	0	7	5	0	1	0	6	1	48	0	0	49	0	95	15	0	110	172				
07:45 AM	1	1	0	0	2	5	0	3	0	8	6	53	1	0	60	1	98	10	0	109	179				
Total Volume	13	5	3	0	21	16	1	14	0	31	13	167	1	0	181	4	420	45	0	469	702				
% App. Total	61.9	23.8	14.3			51.6		45.2				92.3					89.6								
PHF	.650	.625	.375	.000	.750	.800	.250	.700	.000	.705	.542	.788	.250	.000	.754	.500	.913	.750	.000	.923	.980				



Tel: (770) 578-8158 I Fax: (770) 578-8159

TMC Data Springdale Rd @ Highpoint Rd Snellville, GA 7-9 AM | 4-6 PM

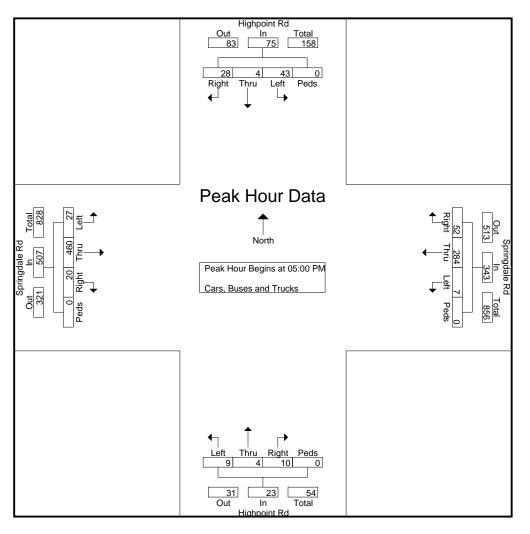
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 Site Code
 : 49020001

 Start Date
 : 6/4/2024

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 : 3

		c	, shpoin rthbou				c	hpoin uthbou			Springdale Rd Eastbound						Springdale Rd Westbound						
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total		
Peak Hour Analysi	s From 04	4:00 PM t	o 05:45 P	M - Peak	1 of 1																		
Peak Hour for	Entire	Inters	ection 1	Begins	at 05:00	PM																	
05:00 PM	2	0	3	0	5	9	0	10	0	19	3	106	6	0	115	2	68	12	0	82	221		
05:15 PM	1	1	1	0	3	8	1	5	0	14	4	138	8	0	150	0	83	18	0	101	268		
05:30 PM	1	2	5	0	8	18	0	7	0	25	9	108	2	0	119	2	74	9	0	85	237		
05:45 PM	5	1	1	0	7	8	3	6	0	17	11	108	4	0	123	3	59	13	0	75	222		
Total Volume	9	4	10	0	23	43	4	28	0	75	27	460	20	0	507	7	284	52	0	343	948		
% App. Total	39.1	17.4	43.5			57.3		37.3				90.7					82.8	15.2					
PHF	.450	.500	.500	.000	.719	.597	.333	.700	.000	.750	.614	.833	.625	.000	.845	.583	.855	.722	.000	.849	.884		



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TMC Data Springdale Rd @ Greenvalley Rd Snellville, GA 7-9 AM | 4-6 PM

File Name : 49020002 Site Code : 49020002 Start Date : 6/4/2024 Page No : 1

							Gr	oups P	rinted	- Cars, B	uses a	nd Tru	ucks								
			vate D	•				envalle	•				ingdal					ingdale			
			rthbou					uthbou					astbou					estbou			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	4	0	4	2	32	0	0	34	0	124	5	0	129	167
07:15 AM	0	0	0	0	0	1	0	5	0	6	2	38	0	0	40	0	115	4	0	119	165
07:30 AM	0	0	0	0	0	2	0	7	0	9	5	45	0	0	50	0	101	1	0	102	161
07:45 AM	0	0	0	0	0	2	0	4	0	6	4	54	0	0	58	0	104	2	0	106	170
Total	0	0	0	0	0	5	0	20	0	25	13	169	0	0	182	0	444	12	0	456	663
08:00 AM	0	0	0	0	0	3	0	8	0	11	1	46	0	0	47	0	82	1	0	83	141
08:15 AM	0	0	0	0	0	2	0	5	0	7	2	43	0	0	45	0	99	2	0	101	153
08:30 AM	0	0	0	0	0	0	0	0	0	0	2	61	0	0	63	0	97	1	0	98	161
08:45 AM	0	0	0	0	0	2	0	6	0	8	3	49	0	0	52	0	81	2	0	83	143
Total	0	0	0	0	0	7	0	19	0	26	8	199	0	0	207	0	359	6	0	365	598
*** BREAK	***																				
04:00 PM	0	0	0	0	0	2 2	0	10	0	12	7	86	0	0	93	0	71	1	0	72	177
04:15 PM	0	0	0	0	0		0	0	0	2	10	128	0	0	138	0	68	3	0	71	211
04:30 PM	0	0	0	0	0	2	0	7	0	9	4	122	0	0	126	0	68	2	0	70	205
04:45 PM	0	0	0	0	0	0	0	5	0	5	11	106	0	0	117	0	78	0	0	78	200
Total	0	0	0	0	0	6	0	22	0	28	32	442	0	0	474	0	285	6	0	291	793
05:00 PM	0	0	0	0	0	2	0	6	0	8	10	111	0	0	121	0	75	0	0	75	204
05:15 PM	0	0	0	0	0	2	0	7	0	9	13	131	0	0	144	0	92	1	0	93	246
05:30 PM	0	0	0	0	0	0	0	6	0	6	11	126	0	0	137	0	78	2	0	80	223
05:45 PM	0	0	0	0	0	1	0	5	0	6	4	112	0	0	116	0	71	4	0	75	197
Total	0	0	0	0	0	5	0	24	0	29	38	480	0	0	518	0	316	7	0	323	870
Grand Total	0	0	0	0	0	23	0	85	0	108	91	1290	0	0	1381	0	1404	31	0	1435	2924
Apprch %	0	0	0	0		21.3	0	78.7	0		6.6	93.4	0	0		0	97.8	2.2	0		
Total %	0	0	0	0	0	0.8	0	2.9	0	3.7	3.1	44.1	0	0	47.2	0	48	1.1	0	49.1	

Tel: (770) 578-8158 I Fax: (770) 578-8159

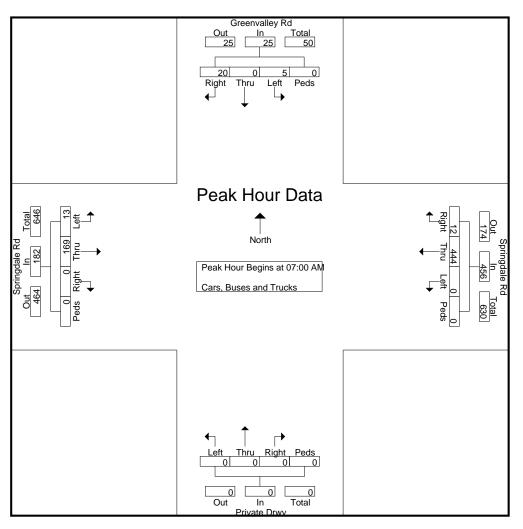
TMC Data Springdale Rd @ Greenvalley Rd Snellville, GA 7-9 AM | 4-6 PM
 File Name
 : 49020002

 Site Code
 : 49020002

 Start Date
 : 6/4/2024

 Page No
 : 2

			ivate D orthbou	•				envalle uthbou	•				ingdal astbou					ingdalo 'estbou			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysi	s From 07	7:00 AM	to 08:45 A	AM - Peak	: 1 of 1																
Peak Hour for	r Entire	Inters	ection 1	Begins	at 07:00	AM															
07:00 AM	0	0	0	0	0	0	0	4	0	4	2	32	0	0	34	0	124	5	0	129	167
07:15 AM	0	0	0	0	0	1	0	5	0	6	2	38	0	0	40	0	115	4	0	119	165
07:30 AM	0	0	0	0	0	2	0	7	0	9	5	45	0	0	50	0	101	1	0	102	161
07:45 AM	0	0	0	0	0	2	0	4	0	6	4	54	0	0	58	0	104	2	0	106	170
Total Volume	0	0	0	0	0	5	0	20	0	25	13	169	0	0	182	0	444	12	0	456	663
% App. Total												92.9					97.4				
PHF	.000	.000	.000	.000	.000	.625	.000	.714	.000	.694	.650	.782	.000	.000	.784	.000	.895	.600	.000	.884	.975



Tel: (770) 578-8158 I Fax: (770) 578-8159

TMC Data Springdale Rd @ Greenvalley Rd Snellville, GA 7-9 AM | 4-6 PM

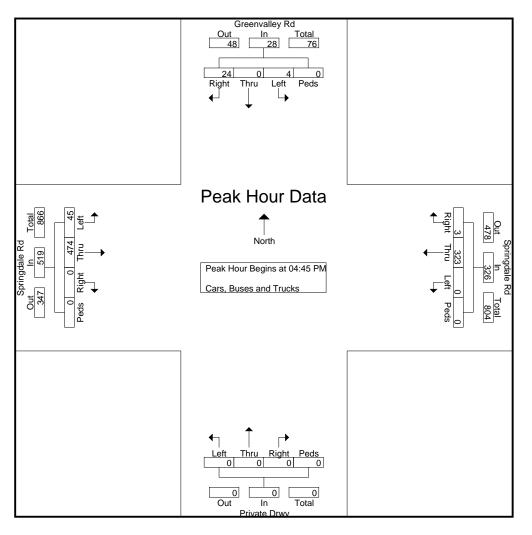
 File Name
 : 49020002

 Site Code
 : 49020002

 Start Date
 : 6/4/2024

 Page No
 : 3

			ivate D orthboi	•				envalle uthbou	•			-	ingdal astbou				-	ingdal estbou			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysi	s From 04	4:00 PM t	o 05:45 F	PM - Peak	1 of 1																
Peak Hour for	r Entire	Inters	ection	Begins	at 04:45	PM															
04:45 PM	0	0	0	0	0	0	0	5	0	5	11	106	0	0	117	0	78	0	0	78	200
05:00 PM	0	0	0	0	0	2	0	6	0	8	10	111	0	0	121	0	75	0	0	75	204
05:15 PM	0	0	0	0	0	2	0	7	0	9	13	131	0	0	144	0	92	1	0	93	246
05:30 PM	0	0	0	0	0	0	0	6	0	6	11	126	0	0	137	0	78	2	0	80	223
Total Volume	0	0	0	0	0	4	0	24	0	28	45	474	0	0	519	0	323	3	0	326	873
% App. Total						14.3		85.7		_		91.3					99.1				
PHF	.000	.000	.000	.000	.000	.500	.000	.857	.000	.778	.865	.905	.000	.000	.901	.000	.878	.375	.000	.876	.887



Appendix B

Intersection Analysis Methodology



Intersection Analysis Methodology

The methodology used for evaluating traffic operations at intersections is presented in the Transportation Research Board's 2022 *Highway Capacity Manual*, 7th Edition (HCM 7). Synchro 12 software, which emulates the HCM 7 methodology, was used for all analyses. The following is an overview of the methodology employed for the analysis of signalized intersections and roundabouts and stop-sign controlled (unsignalized) intersections. Levels of service (LOS) are assigned letters A through F. LOS A indicates operations with very low control delay while LOS F describes operations with high control delay. LOS F is considered to be unacceptable by most drivers, while LOS E is typically considered to be the limit of acceptable delay.

Signalized Intersections and Roundabouts – Level of service for a signalized intersection and a roundabout is defined in terms of control delay per vehicle. For signalized intersections and roundabouts, a composite intersection level of service is determined. The thresholds for each level of service are higher for signalized intersections and roundabouts than for unsignalized intersections. This is attributable to a variety of factors including expectation and acceptance of higher delays at signals/roundabouts, and the fact that drivers can relax when waiting at a signal as opposed to having to remain attentive as they proceed through the unsignalized intersection. The level of service criteria for signalized intersections and roundabouts are shown in Table A.

Control Delay (s/veh)	LOS
≤ 10	A
$>$ 10 and \leq 20	В
$>$ 20 and \leq 35	С
$>$ 35 and \leq 55	D
$>$ 55 and \leq 80	E
> 80	F

Table A – Level of Service Criteria for Signalized Intersections and Roundabouts

Source: Highway Capacity Manual 7

Unsignalized Intersections – Level of service for an unsignalized intersection is defined in terms of control delay per vehicle. Control delay is that portion of delay attributable to the control device and includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. The delays at unsignalized intersections are based on gap acceptance theory, factoring in availability of gaps, usefulness of the gaps, and the priority of right-of-way given to each traffic stream. The level of service criteria for unsignalized intersections are presented in Table B.

Control Delay (s/veh)	LOS
0 - 10	A
> 10 and ≤ 15	В
> 15 and ≤ 25	С
> 25 and ≤ 35	D
$>$ 35 and \leq 50	E
> 50	F

Source: Highway Capacity Manual 7



Appendix C

Existing Intersection Operational Analysis



Intersection													
Int Delay, s/veh	1.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	1	1	5	ħ			\$			\$		
Traffic Vol, veh/h	13	167	1	4	420	45	13	5	3	16	1	14	
Future Vol, veh/h	13	167	1	4	420	45	13	5	3	16	1	14	
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	200	-	200	110	-	-	-	-	-	-	-	-	
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	75	75	75	92	92	92	75	75	75	71	71	71	
Heavy Vehicles, %	2	3	2	2	3	2	2	2	2	2	2	2	
Mvmt Flow	17	223	1	4	457	49	17	7	4	23	1	20	

Major/Minor	Major1		Major2		Minor1		ľ	Minor2			
Conflicting Flow All	505	0	0 224	0	0 723	771	223	750	748	481	
Stage 1	-	-		-	- 257	257	-	490	490	-	
Stage 2	-	-		-	- 466	514	-	261	259	-	
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	-	
Follow-up Hdwy	2.218	-	- 2.218	-	- 3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1059	-	- 1345	-	- 341	330	817	327	341	585	
Stage 1	-	-		-	- 747	695	-	560	549	-	
Stage 2	-	-		-	- 577	535	-	744	694	-	
Platoon blocked, %		-	-	-	-						
Mov Cap-1 Maneuver	1059	-	- 1345	-	- 322	324	817	313	334	585	
Mov Cap-2 Maneuver	-	-		-	- 322	324	-	313	334	-	
Stage 1	-	-		-	- 735	683	-	558	547	-	
Stage 2	-	-		-	- 554	534	-	721	682	-	
Approach	EB		WB		NB			SB			

, approach		110		05	
HCM Control Delay	∕, s/v 0.61	0.07	16.07	15.18	
HCM LOS			С	С	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1
Capacity (veh/h)	353	1059	-	-	1345	-	-	397
HCM Lane V/C Ratio	0.079	0.016	-	-	0.003	-	-	0.11
HCM Control Delay (s/veh)	16.1	8.5	-	-	7.7	-	-	15.2
HCM Lane LOS	С	А	-	-	А	-	-	С
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0.4

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ŧ	et i		Y	
Traffic Vol, veh/h	13	169	444	12	5	20
Future Vol, veh/h	13	169	444	12	5	20
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	78	78	88	88	69	69
Heavy Vehicles, %	2	3	3	2	2	2
Mvmt Flow	17	217	505	14	7	29

Major/Minor Major1 Major2 Minor2 Conflicting Flow All 518 0 - 0 761 511 Stage 1 - - - 511 - Stage 2 - - - 511 - Critical Hdwy 4.12 - - 6.42 6.22 Critical Hdwy Stg 1 - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy 2.218 - - 3.518 3.318 Pot Cap-1 Maneuver 1048 - - 366 562 Mov Cap-1 Maneuver 1048 - - 366 - Mov Cap-2 Maneuver - -
Stage 1 - - - 511 - Stage 2 - - - 250 - Critical Hdwy 4.12 - - 6.42 6.22 Critical Hdwy Stg 1 - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy 2.218 - - - 3.518 3.318 Pot Cap-1 Maneuver 1048 - - 373 562 Stage 1 - - - 792 - Platoon blocked, % - - - 366 562 Mov Cap-2 Maneuver 1048 - - 366 - Stage 1 - - - 591 - Stage 2 - - - <
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 1048 - - 373 562 Stage 1 - - - 602 - Stage 2 - - - 792 - Platoon blocked, % - - - 366 562 Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 792 - Stage 2 - - -
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 1048 - - 373 562 Stage 1 - - - 602 - Stage 2 - - - 792 - Platoon blocked, % - - - 366 562 Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 792 - Stage 2 - - - 792 - Approach EB WB SB SB
Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy 2.218 - - 3.518 3.318 Pot Cap-1 Maneuver 1048 - - 373 562 Stage 1 - - - 602 - Stage 2 - - - 792 - Platoon blocked, % - - - 366 562 Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 -
Follow-up Hdwy 2.218 - - 3.518 3.318 Pot Cap-1 Maneuver 1048 - - 373 562 Stage 1 - - - 602 - Stage 2 - - - 792 - Platoon blocked, % - - - 792 - Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 -
Pot Cap-1 Maneuver 1048 - - 373 562 Stage 1 - - - 602 - Stage 2 - - - 792 - Platoon blocked, % - - - - - Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 -
Stage 1 - - - 602 - Stage 2 - - - 792 - Platoon blocked, % - - - - Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 591 - Stage 1 - - - 792 - Stage 2 - - - 792 - Approach EB WB SB SB
Stage 2 - - - 792 - Platoon blocked, % - - - - Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 591 - Stage 1 - - - 792 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 591 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 792 - Stage 3 - - - - - 792 - Mov Cap-2 Maneuver - - - - - 792 - Mov Cap-2 Maneuver - - -
Platoon blocked, % - - - Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Mov Cap-2 Maneuver - - - 591 - Stage 1 - - - 792 - Mov Cap-2 Maneuver - - - 792 -
Mov Cap-1 Maneuver 1048 - - 366 562 Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Approach EB WB SB -
Mov Cap-2 Maneuver - - - 366 - Stage 1 - - - 591 - Stage 2 - - - 792 - Approach EB WB SB
Stage 1 - - - 591 - Stage 2 - - - 792 - Approach EB WB SB
Stage 2 - - - 792 - Approach EB WB SB
Approach EB WB SB
- 1 - 1
HCM Control Delay s/v 0.61 0 12.63
HCM LOS B
Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1
Capacity (veh/h) 129 508
HCM Lane V/C Ratio 0.016 0.071
HCM Control Delay (s/veh) 8.5 0 12.6
HCM Lane LOS A A B
HCM 95th %tile Q(veh) 0 0.2

existing p.m.

Intersection													
Int Delay, s/veh	3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	1	1	٦	1.			4			4		
Traffic Vol, veh/h	27	460	20	7	284	52	9	4	10	43	4	28	
Future Vol, veh/h	27	460	20	7	284	52	9	4	10	43	4	28	
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	200	-	200	110	-	-	-	-	-	-	-	-	
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	85	85	85	85	85	85	72	72	72	75	75	75	
Heavy Vehicles, %	2	3	2	2	3	2	2	2	2	2	2	2	
Mvmt Flow	32	541	24	8	334	61	13	6	14	57	5	37	

Major/Minor	Major1		Major2		Minor1		N	Minor2			
Conflicting Flow All	395	0	0 565	0	0 958	1016	541	989	1009	365	
Stage 1	-	-		-	- 605	605	-	381	381	-	
Stage 2	-	-		-	- 353	412	-	607	628	-	
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	-	
Follow-up Hdwy	2.218	-	- 2.218	-	- 3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1163	-	- 1007	-	- 237	238	541	226	240	680	
Stage 1	-	-		-	- 485	487	-	641	613	-	
Stage 2	-	-		-	- 664	594	-	483	476	-	
Platoon blocked, %		-	-	-	-						
Mov Cap-1 Maneuver	1163	-	- 1007	-	- 211	229	541	207	232	680	
Mov Cap-2 Maneuver	· _	-		-	- 211	229	-	207	232	-	
Stage 1	-	-		-	- 472	474	-	636	608	-	
Stage 2	-	-		-	- 617	590	-	452	463	-	
Approach	EB		WB		NB			SB			
HCM Control Delay, s	s/v 0.44		0.18		18.79			24.6			
HCM LOS					С			С			

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	293	1163	-	-	1007	-	-	282
HCM Lane V/C Ratio	0.109	0.027	-	-	0.008	-	-	0.354
HCM Control Delay (s/veh)	18.8	8.2	-	-	8.6	-	-	24.6
HCM Lane LOS	С	А	-	-	Α	-	-	С
HCM 95th %tile Q(veh)	0.4	0.1	-	-	0	-	-	1.5

Int Delay, s/veh 0.9				
Movement EBL EBT	WBT	WBR	SBL	SBR
Lane Configurations	1.		Y	
Traffic Vol, veh/h 45 474	323	3	4	24
Future Vol, veh/h 45 474	323	3	4	24
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	88	88	78	78
Heavy Vehicles, % 2 3	3	2	2	2
Mvmt Flow 50 527	367	3	5	31

Major/Minor I	Major1	Ν	lajor2		Minor2	
Conflicting Flow All	370	0	-	0	995	369
Stage 1	-	-	-	-	369	-
Stage 2	-	-	-	-	627	-
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	1188	-	-	-		677
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	533	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1188	-	-	-	255	677
Mov Cap-2 Maneuver	-	-	-	-	255	-
Stage 1	-	-	-	-	658	-
Stage 2	-	-	-	-	533	-
Approach	EB		WB		SB	
HCM Control Delay, s/	v 0.71		0		12.04	
HCM LOS					В	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR	SBI n1
Capacity (veh/h)	<u>n</u>	156			-	547
HCM Lane V/C Ratio		0.042	-	-		0.066
HCM Control Delay (s/	(voh)	8.2	0	-	-	12
HCM Lane LOS	ven)	0.2 A	A	_	-	B
HCM 95th %tile Q(veh))	0.1	-	-	-	0.2
	/	0.1	-	_	-	0.2

RECEIVED

06/12/2024

Sewer Capacity Certification



GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

684 Winder Highway | Lawrenceville, GA 30045-5012 678.376.6700 www.gwinnettcounty.com | www.gwinnetth2o.com

March 18, 2023

Luke Rozanski Ren-MF, LLC 3460 Preston Ridge Rd., Suite 150 Alpharetta, Ga. 30005 APPROVED
 DENIED
 CONDITIONALLY APPROVED
 Sewer Capacity Request #C2024-047-03
 Expiration Date: 03/18/2025
 Tie-In Manhole FID: 778403

RE: Sewer Availability for Proposed Development – Springdale Subdivision Parcel ID 5004 007, 5004 006

Dear Mr. Rozanski:

Gwinnett County Department of Water Resources (GCDWR) has reviewed the impact of the proposed development consisting of <u>51 single-family homes</u> on the above parcels and determined:

Gwinnett County has adequate sewer capacity to serve the proposed development.

This confirmation is based on your anticipated annual average daily flow of **<u>8.9 gpm</u>** discharging to the sewer tie-in manhole at Facility ID **778403**.

Capacity Allocation: Sewer capacities are allocated only upon the issuance of a Development Permit, by Gwinnett County Planning & Development and after all applicable conditions established in this Sewer Capacity Certification, if any, are met.

Certification Expiration: The Sewer Capacity Certification is valid for 12 months from the date of this letter. If rezoning is approved, GCDWR will issue a revised Sewer Capacity Certification based on the approved units, as needed. The capacity request can be renewed for an additional 12 months. If a Development Permit has not been obtained by the expiration date above the developer may apply for renewal by providing evidence of active rezoning, plan review, or permitting efforts.

Once the Sewer Capacity Certification expires, the capacity is no longer allocated, and a new Sewer Capacity Certification request must be submitted for re-evaluation with no guarantee of available capacity. The evaluation will be based on the updated conditions of the sewer system.

Certification Invalidation: This certification is not valid if there are proposed changes to your development that could impact downstream sewer capacity (e.g. land use density, sewer tie-in manhole, parcel changes, and/or rezoning). In this case the development must resubmit for a new Sewer Capacity Request with updated information prior to the expiration of the previous one.



GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

684 Winder Highway | Lawrenceville, GA 30045-5012 678.376.6700 www.gwinnettcounty.com | www.gwinnetth2o.com

Please contact us at 678-376-7026 if you have any questions.

Sincerely,

GWINNETT COUNTY DEPARTMENT OF WATER RESOURCES

Jai ye Su

Tai Yi Su, PE Division Director, Infrastructure Support 678.376.2104

C: Gwinnett County DWR – Lorraine Campagne, Section Manager; Raghu Vemuru, Engineer V; Mikala Weston, Engineer III Gwinnett County P&D – Charli Young, Planning Manager; Geniva Sylvain, Engineer I; Christina Dejarnette, Engineer I



WATER RESOURCES SEWER CAPACITY CERTIFICATION REQUEST

GWINNETT COUNTY

Submit completed, signed, sealed form, and documents to: DWRCapacityCertification@GwinnettCounty.com

Select Request Type:	DWR Use Only:
New Request	Capacity Certification Request No.
Revise Existing Request SCC #	Approved* Conditionally Approved* Denied* *(See page 3 for details.)
Renew Request	Printed Name: Signature:

Gwinnett County Planning and Development Permit No.: ____

Check if development/project requires public or private pump station:

Development/Project Name:		
Development Address:	(City)	(Zip)
Parcel Number(s):		
Project Description:		
Total Area of Development:	acres	
If residential, total number of units:	Density:	units/acre
Property Owner Name:		
Property Owner Email:	Phone #:	
Developer Name:	Company:	
Address:		
Contact Name:		
Developer Email:		
Engineering Firm:		
Contact Name:		
Engineer Email:	Phone #:	
Additional Recipients:		
Recipient(s) Email(s):		

WINNETT COUNTY NG AND DEVELOPMENT	
CARRENSED nly	
Capacity Certification Request N	
Development/Project Name: Spr	
Gwinnett County Planning and D	evelopment Permit No.: (if available)
Total requested flow for develop	pment in gallons per minute (gpm): 8.9
Tow (com) 89	to tie-in manhole facility ID: 778403
Flow (gpm) <u>8.9</u> Flow (gpm)	to tie-in manhole facility ID:
Flow (gpm)	to tie-in manhole facility ID:
Flow (gpm)	to tie-in manhole facility ID:
Estimated Dates for:	DWR Received
	February 22, 2024
Rezoning: 5/24	
Begin Construction:	
Completion/Occupancy:	
Include the following in the subn	nittal package:
GIS map showing proposed of https://gis.gwinnettcounty.co	development, surrounding utilities, and location of tie-in manhole om/GISDataBrowser
✓ Detailed flow calculations fo (page 4-11)	r proposed development project based on attached guidelines
 Average annual data 	ily flow (gpm)
 Peak flow (gpm) for 	or all commercial, and mixed-use projects
Instantaneous pea	k flow (gpm) for all industrial projects
 Batch discharges t 	from processing facilities
Private pump stati	on flow rates
Proposed utility plan	Mind Dark Junken Date: 2.72.24
OBC	Submit completed, signed, sealed form, and documents to
Stratt Part	DWRCapacityCertification@GwinnettCounty.com
PROFESSIONAL 2.22.24	678.376.7026
CHARINEEL PODD PH	PLEASE ALLOW A MINIMUM OF 10 BUSINESS DAYS FOR PROCESSING.
	DUSINESS DATS FOR FROCESSING.

GWINNETT COUNTY		
-ANDWRAUSE OHIMENT		
Ca RECITIVED tificatio	n Request No.:	
Development/Projec	t Name:	
	nning and Development Permit No.:	
	n pump station:	
Name of sewer sub-	basin:	

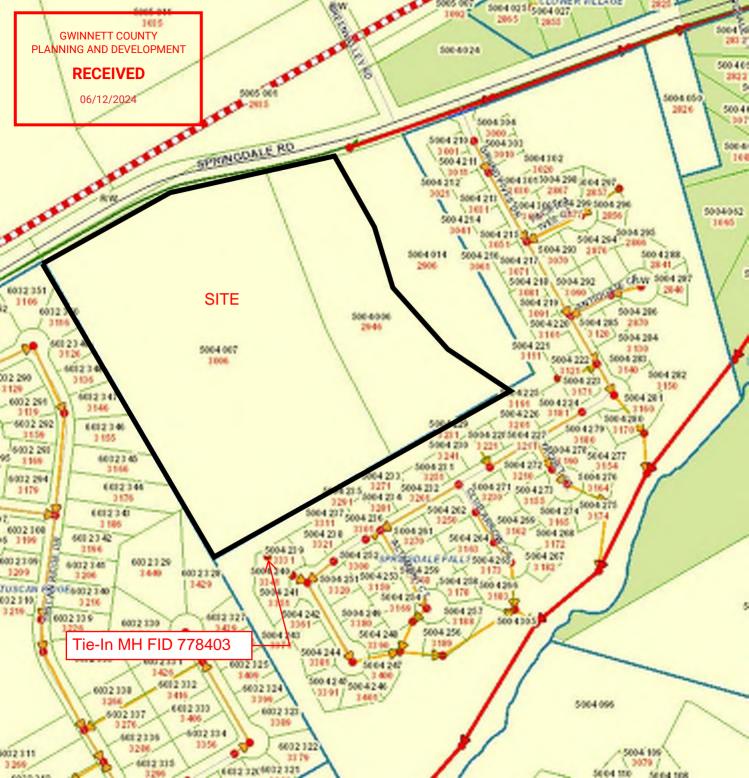
Gwinnett County Department of Water Resources Recommendations

Approved – Downstream sewer facilities have adequate capacity to accommodate flows.

Conditionally Approved – Downstream sewer facilities can serve the proposed development/ project under the following conditions:

Denied – Due to the following:

GWINNETT COUNTY PLANNING AND DEVELOPMENT RECEIVED ECISION 06/12/2024	GWINNETT COUNTY WASTEWATER FLOW ESTIMATION			Job No: SPRINGDALE Pages: X of X Designed: PPI Date: 2/22/2024 Checked: TP Date: 2/22/2024				
Land Use Category and Facility Type	Annual Average Daily Unit Flow (gpd)	Per Unit		No. of Units		Estimated AADF (gpd)		"Additional Categories" that apply (included on table)
(Column A)	(Column B)	(Column C)						(Column D)
Single Family Home	250	perunit	×	51	-	12,750		
		AADI		otal AADF		12,750 8.9	gpd	



GWINNETT COUNTY PLANNING AND DEVELOPMENT

RECEIVED

06/12/2024

Public Participation Plan



446 West Crogan Street, Suite 300 | Lawrenceville, GA 30046-2440 678.518.6000 GwinnettCounty.com

Public Participation Plan

1. Who do you intend to contact in addition to property owners within 1,000 feet of the site, if any?

The applicant will notify all property owners within 1,000 feet of the subject property

utilizing addresses provided by the Gwinnett County Planning Department provided at

the conclusion of the pre application meeting.

2. Where do you plan to host the Public Participation Meeting? Ensure that the meeting is held in person at a convenient location for interested parties.

Upon confirmation, the meeting will be located at Briscoe Park, Sawyer PKWY,

Snellville, GA 30078

3. What date and time do you plan to host the Public Participation Meeting? Ensure that the meeting is held at a convenient time for interested parties, e.g. not during typical work hours on weekdays.

Upon confirmation, the meeting will be held on 6/21/24 at 6:30pm.

4. What is your method for providing opportunities for discussion with interested parties at the Public Participation Meeting?

A brief presentation providing all facets of the project with a Q&A portion to answer

any questions from the community members.

GWINNETT COUNTY PLANNING AND DEVELOPMENT

RECEIVED

06/12/2024

Wetlands Delineation

RECEIVED

06/12/2024

SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA

SITE RECONNAISSANCE FOR WETLANDS, STREAMS, AND STREAM BUFFERS PREPARED: DECEMBER 8, 2023 FOR: REN-MF CONSTRUCTION, LLC

On December 6, 2023, NEI reviewed "Springdale Road Property" to determine the extent of aquatic areas we believe would be jurisdictional under *Section 404 of the Clean Water Act* and to identify waters of the State where we believe the Georgia Department of Environmental Protection Division (GAEPD) would regulate land disturbance in the "stream buffers." The study area is approximately 20 acres in size and is located 0.70 miles northeast of the intersection of GA-124 and Springdale Road in Snellville, Gwinnett County, Georgia.

TOTAL STUDY AREA	20 AC			
Wetland (a)(4)	~ 50 SF			
Intermittent Stream (a)(3)	~ 104 LF			
Pond (a)(2)	~ 1.29 AC			
Drainage Channel	~ 202 LF			

SUMMARY OF FINDINGS

PROPERTY DESCRIPTION

At the time of on-site reconnaissance, most of the west portion of the study area was covered by mixed hardwood/pine forest with moderately moderately dense understory. The east portion of the study area was partially cleared and contained a single-family home. The topography of the property was consistent with the Southern Outer Piedmont ecoregion with slopes ranging up to 45 percent. Springdale Road borders the study area to the north. Residential subdivisions are located west, south, and east of the study area.

ON-SITE AQUATIC RESOURCES

- A **Wetland** ((a)(4) water) was identified on the west portion of the study area. It was characterized by surface water and hydric soils but lacked vegetation due to inundation.
- An **Intermittent Stream** ((a)(3) water) was identified on the west portion of the study area. The stream originated at the location of the pond outflow culvert and generally flowed south before exiting the study area. It was up to approximately two and a half feet wide, entrenched up to approximately two feet, and contained silt as the primary substrate.
- A Pond ((a)(2) water) was located on the northwest portion of the study area.
- A drainage channel was identified originating near the southwest portion of the aforementioned pond. As this channel serves as the secondary pond outflow and did not have an ordinary highwater mark, wetland vegetation, or hydric soils, it was assessed to be non-jurisdictional to the USACE.

RESULTS OF SITE RECONNAISSANCE

- **Mapping**: As part of this site review, the accompanying mapping and illustrations were prepared: a location map; USGS quad map; aerial photograph; USDA NRCS soils map; USFWS wetlands map; FEMA floodplains map; USGS Stream Stats; and approximate photo locations.
- **GPS:** While on-site, Trimble DA2 GPS antennas equipped with Trimble Terra Flex Software were used to log the location of aquatic resources and other notable features as appropriate. The location and area(s) of aquatic resources reported herein is based partly on GPS data that was collected using Trimble antenna(s), post-processed with Trimble Terra Flex software, and alignments and measurements were accomplished in Google Earth. While the data shown herein is presumed to be accurate, actual stream alignments and aquatic resource boundaries found in the field can vary somewhat from that which is mapped. This mapping grade GPS data is known to be sub-meter accurate and suitable for acceptance by the regulatory agencies but can vary in precision depending upon several variables. If a greater level of precision for the aquatic resource location is required, please let us know.

SUMMARY OF OUR WORK ACTIVITY AND PERTINENT REGULATIONS

After reviewing available remote data including aerial photography, USGS topography, the National Wetlands Inventory mapping, the USDA soils survey, the FEMA flood hazards mapping, and other available data as appropriate, field reconnaissance was conducted to locate onsite aquatic resources. The typical field reconnaissance generally commences along the lower elevation areas of the study area, then continues up-valley until no further evidence of aquatic resources is found.

Waters of the United States

Wetlands and waters of the US are under the jurisdiction of the US Army Corps of Engineers (USACE) per Section 404 of the Clean Water Act. The USACE jurisdiction is established in *Title 33 Code of Federal Regulations Part 328.3*, as published in the *Federal Register*, effective September 8, 2023. The USACE jurisdiction in the North Georgia region includes freshwater ponds, lakes, rivers, streams, and wetlands. The USACE would regulate the discharge of fill material into the intermittent stream, wetland, and pond identified herein. The USACE would not regulate the discharge of fill material into the drainage channel identified herein.

WOTUS DESIGNATIONS

- (a)(1) includes traditional navigable waters, the territorial seas, and interstate waters.
- (a)(2) includes impoundments of "waters of the United States."
- (a)(3) includes tributaries of traditionally navigable waters and impoundments of "waters of the United States" that are relatively permanent, standing, or continuously flowing bodies of water.
- (a)(4) includes aquatic resources that meet the 2023 "waters of the United States" definition of "wetlands" and maintain a "continuous surface connection" to other jurisdictional waters.
- (a)(5) includes intrastate lakes and ponds not identified in paragraphs (a)(1) through (a)(4) that are relatively permanent, standing or continuously, flowing bodies of water with a continuous surface connection to other jurisdictional waters.

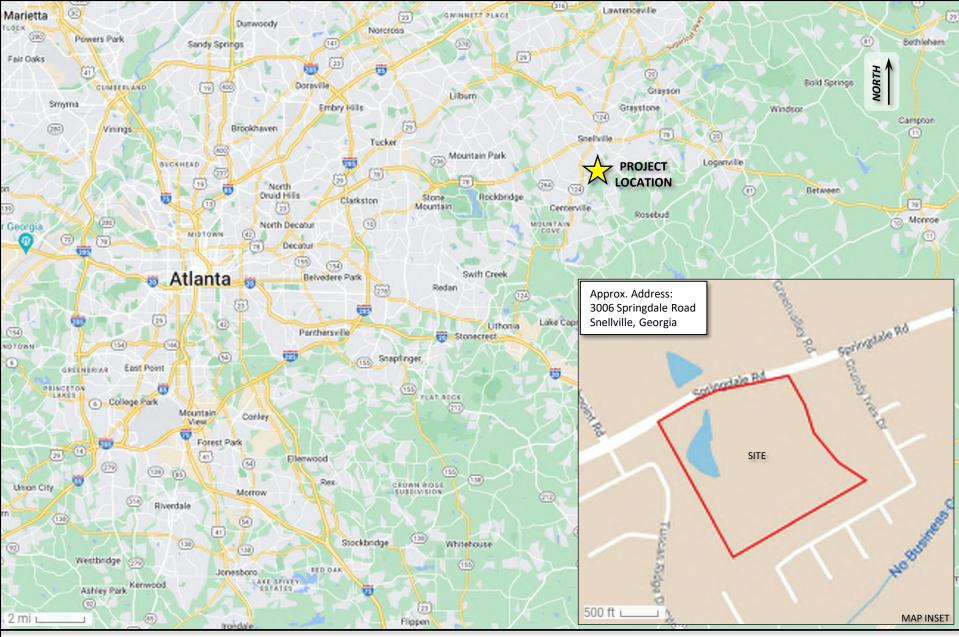
GAEPD BUFFERED STATE WATERS

Through the Erosion and Sedimentation Act of 1975, the GAEPD regulates land disturbance in buffers extending horizontally from the point of wrested vegetation. Drainage from the site leads to No Business Creek, which is in the Upper Ocmulgee watershed, USGS HUC 03070103. Based on the list of trout streams found in GADNR 391-3-6-.03, the streams in this area are not listed as "trout streams," and therefore would be considered "warm water streams." The intermittent stream and pond identified herein would be considered a "Buffered Water of the State", where GAEPD would regulate land disturbance in 25-foot "stream buffers."

CLOSING

The information and data provided herein is sufficient for planning purposes but is not necessarily sufficient for agency verification. Our field reconnaissance for wetlands and streams is based on our over 30 years of experience, but please note that the USACE and GAEPD have the ultimate discretionary authority in the determination of their respective jurisdiction. If you would like for us to pursue official jurisdictional determination with the USACE and/or the GAEPD, please let us know.

NELSON ENVIRONMENTAL, INC.



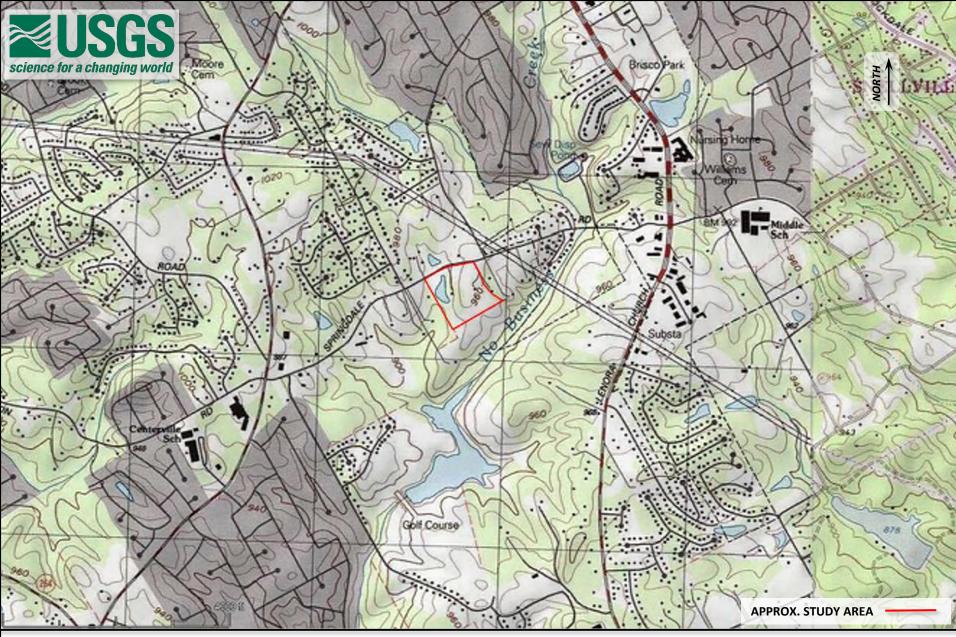
VICINITY MAP

PREPARED FOR: REN-MF CONSTRUCTION, LLC

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA

PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC,

EXHIBIT 1



USGS QUADRANGLE MAP

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA EXHIBIT 2 PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

PREPARED FOR: REN-MF CONSTRUCTION, LLC

Note: Features were drawn from GPS data overlaid into Google Earth and the resulting locations are approximate.

AERIAL PHOTO W/ AQUATIC RESOURCE LOCATIONS

PREPARED FOR:

REN-MF CONSTRUCTION, LLC

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY **GWINNETT COUNTY, GEORGIA**

PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

MAPSOURCE: GOOGLE IMAGE 4/4/2021

EXHIBIT 3

www.NelsonEnvironmental.us PH:404/862-1665

WETLAND (a)(4) STREAM (a)(3) POND (a)(2)

DRAINAGE CHANNEL

APPROX. STUDY AREA

500 m

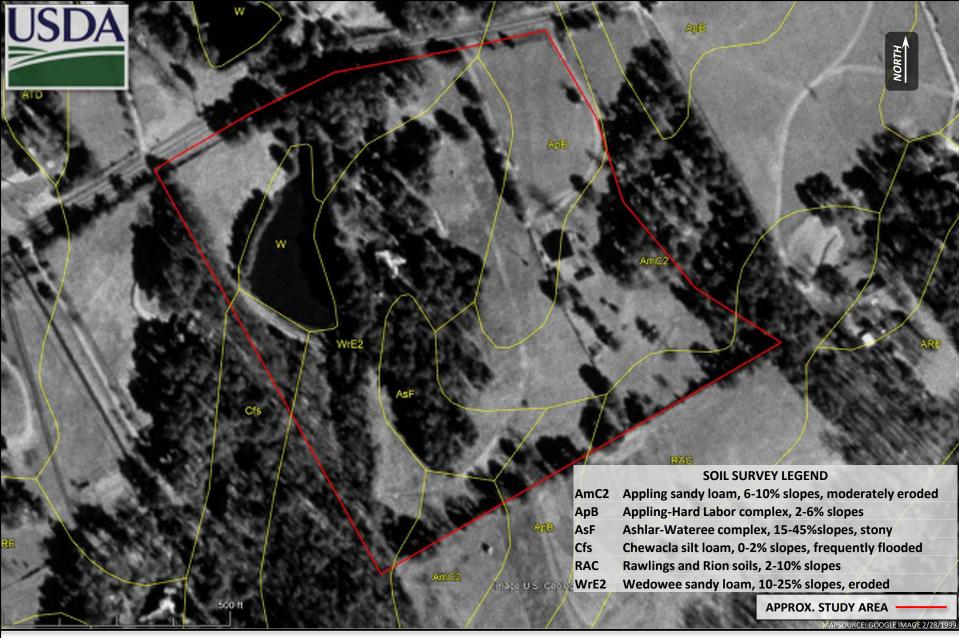


AERIAL PHOTOGRAPH

EXHIBIT 4 PREPARED 12/8/2023 BY:

NELSON ENVIRONMENTAL, INC.

PREPARED FOR: REN-MF CONSTRUCTION, LLC FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA



USDA SOILS SURVEY

PREPARED FOR: REN-MF CONSTRUCTION, LLC FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA EXHIBIT 5 PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

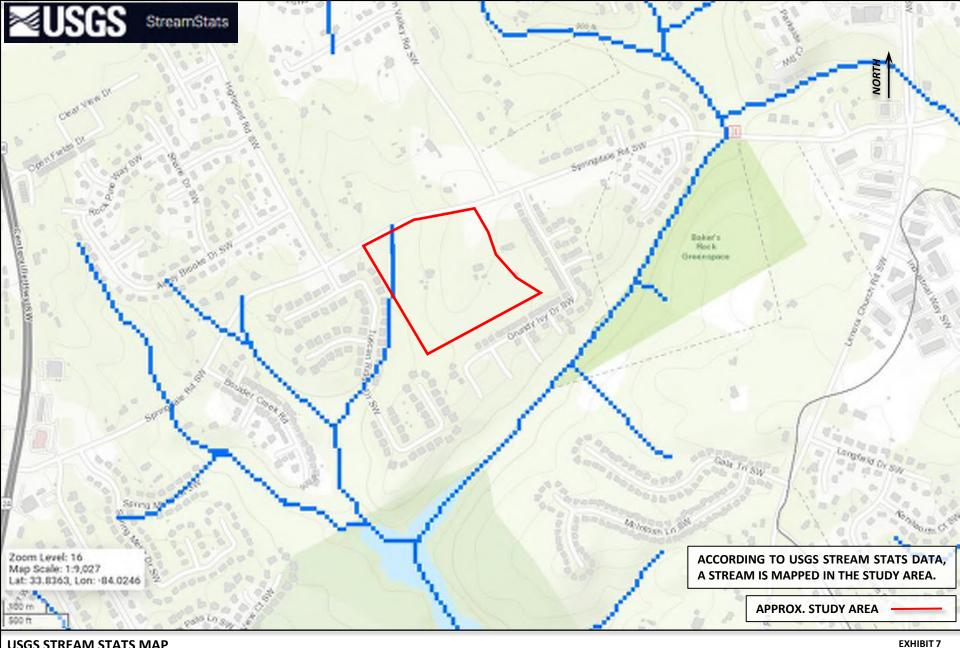


USFWS NWI MAP

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY **GWINNETT COUNTY, GEORGIA**

PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

PREPARED FOR: **REN-MF CONSTRUCTION, LLC**



USGS STREAM STATS MAP

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY **GWINNETT COUNTY, GEORGIA**

PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

PREPARED FOR: **REN-MF CONSTRUCTION, LLC**



ACCORDING TO FEMA FLOOD HAZARD DATA, FLOOD HAZARD AREAS ARE NOT MAPPED IN THE STUDY AREA

NORTH

FEMA FLOOD HAZARD MAP

000.0

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

EXHIBIT 8

PREPARED FOR: REN-MF CONSTRUCTION, LLC



PHOTO LOCATIONS

FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY **GWINNETT COUNTY, GEORGIA**

PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.

PREPARED FOR: **REN-MF CONSTRUCTION, LLC**



PHOTO 1: POND



PHOTO 2: DRAINAGE CHANNEL



PHOTO 3: INTERMITTENT STREAM

SEE PRECEDING EXHIBIT FOR PHOTO LOCATIONS

SITE PHOTOS

PREPARED FOR: REN-MF CONSTRUCTION, LLC FIELD RECONNAISSANCE FOR STREAMS AND WETLANDS SPRINGDALE ROAD PROPERTY GWINNETT COUNTY, GEORGIA PHOTOS TAKEN: 12/6/2023

EXHIBIT 10 PREPARED 12/8/2023 BY: NELSON ENVIRONMENTAL, INC.