

Statement of Justification  
Tregoning Property  
Preliminary Plan Application  
April 2023

I. Introduction

ESC Tregoning LC (the “Applicant”) is submitting this Preliminary Plan Application (“the Application”) for the Tregoning Property (“Property”). The Property is located southwest of the intersection of Kings Valley Road and Preakness Drive in Clarksburg and consists of 2 parcels:

- 17.81-acre parcel zoned RE-1
- 19.80-acre parcel zoned RE-1

The Applicant contracted to purchase the 17.81-acre parcel (the “Development Parcel” or the “Project”). The Tregoning family will retain the 19.80-acre RE-1 parcel (and two development rights from this Application). The Property is the subject of an approved Pre-Preliminary Plan (Tregoning – Pre-Preliminary Plan No. 72020020).

II. Background

The 1994 Clarksburg Master Plan considers the Property part of the Ridge Road Transition Area and proposes that the Property be developed for residential use. The zoning and Master Plan recommendation are reinforced by the water and sewer category change approved by the County Council in 2018, which calls for public water and sewer for the Property upon Preliminary Plan approval under the RE-1 Optional MPDU or cluster method.

This Application proposes developing the Property using the MPDU optional method (which allows 1.22 dwelling units per acre) to create a yield of 46 units on 37.6 acres. Per the approved Pre-Preliminary Plan (Resolution attached as Exhibit A), Applicant will cluster 44 units (38 market rate on 9,000 SF lots

and six MPDUs) on the Property. The development rights for the remaining two market rate units will be retained by the Seller for the 19.80-acre portion of the



The Proposed Project (as submitted in the Preliminary Plan)

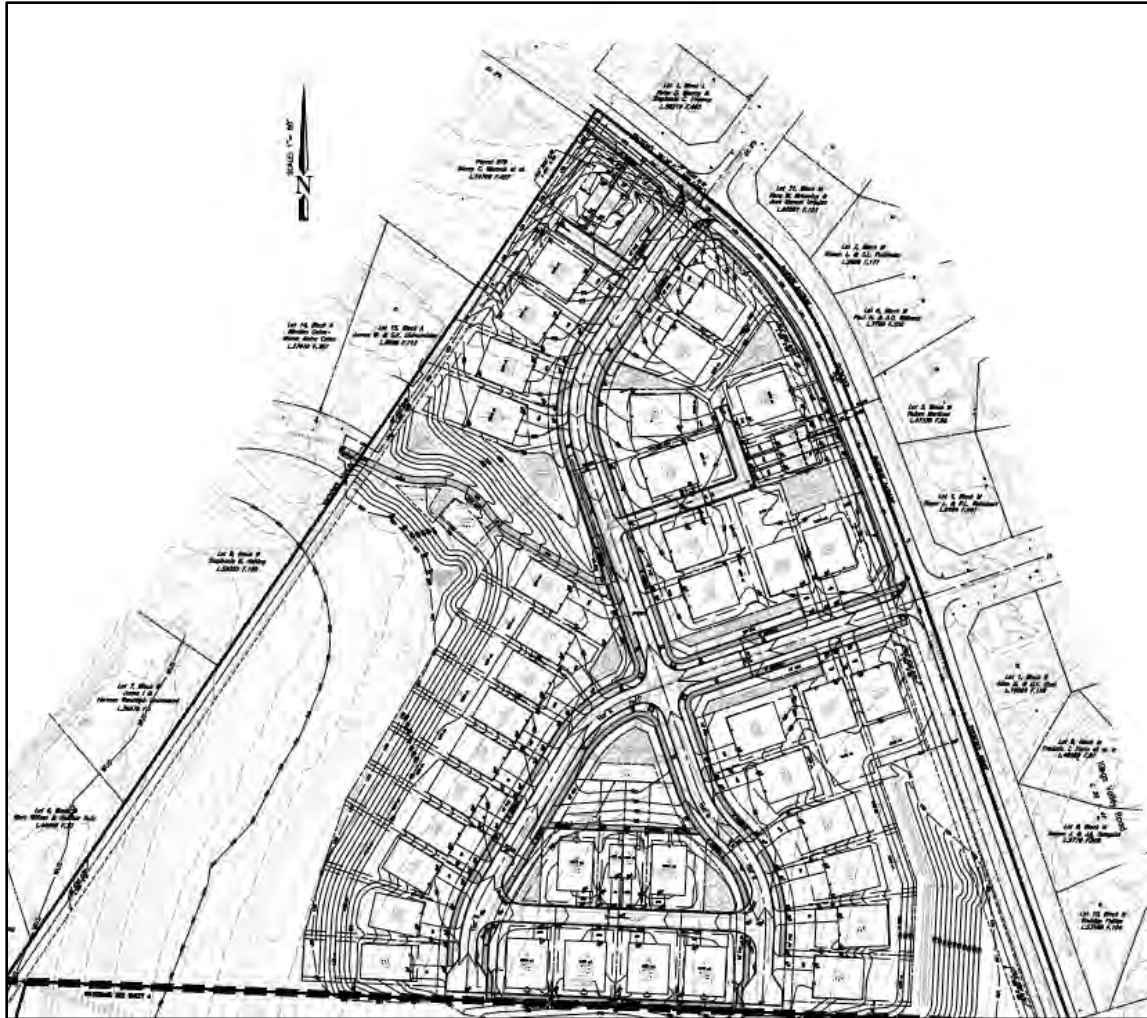
The Project is currently an active agricultural operation. The topography on the Development Parcel is significant, with at least 34 feet of fall from the east side of the Property to the west side of the Development Parcel, requiring specific grading requirements for public roads and sanitary sewer. Public sewer is available on the east side of the Development Parcel (the “high” side) in Kings Valley Road, and the site is designed to use this sole public sewer connection. The homes to the west on Hoffman Drive are served by septic systems. Public water is also available, and the soils are such that they accommodate environmentally sensitive stormwater management design.

The Development Parcel is bordered by ½ acre -1 acre lots to the west on Hoffman Drive, and ¼ acre to 1/3 acre lots to the north and east on Preakness Drive. The Project completes the gap between these existing neighborhoods and encourages connectivity between the existing neighborhoods and the property through the Hoffman Drive connection. Single family detached lots in the Project are a minimum of 9,000 square feet and a mix of front load garages and alley loaded garages. The six MPDUs are grouped with two triplexes served by rear-load drives and massed to integrate with the single-family lots within the community.

The Application proposes internal recreational facilities for the Project: one multi-age play area for older children central to this project. The Project will also contain seating areas and create connectivity via Hoffman Drive and the associated sidewalks to the existing well-established neighborhood on Hoffman Drive and to nearby Cedar Grove Elementary. All proposed streets in the Project are public with public sidewalks on each side of the street, and the stormwater management will be addressed through micro-bio facilities, micro-bio swales, and on-lot infiltration trenches.

The Applicant filed a Pre-Preliminary Plan heard by the Planning Board in February 2023. The Board reviewed the following items:

1. Hoffman Drive connection (whether it should be vehicular or not)
2. 1500 linear foot path connection to Damascus Regional Park
3. MPDU distribution and location.



**Submitted and Board Reviewed Pre-Preliminary Plan (Note the trail connection to Hoffman Drive)**

**Pre-Preliminary Plan Item1: /Hoffman Drive Connection (Should it be Vehicular?)**

Hoffman Drive is an existing dead-end public road that intersects with Ridge Road. It currently serves approximately 17 homes and was built more than 50 years ago. The extension of this dead-end connection between the Project and existing Hoffman Drive was the subject of several discussions between Staff and the Applicant prior to the Pre-Preliminary Plan. Given the long-standing nature of Hoffman Drive as a dead-end road serving a small number of homes, the

Applicant advocated in their Pre-Preliminary Plan for a trail connection to allow for pedestrian and bike connectivity between existing Hoffman and the Project, but not a through road. Staff advocated for a vehicular connection. As noted in the traffic study, any vehicular connection to Hoffman Drive would create opportunities for cut-through Ridge Road traffic using not only Hoffman Drive to cut through to Kings Valley Road and Preakness Road (roads not designed for cut-through traffic and built more than 40 years ago). During the Pre-Preliminary Plan Board hearing, planning Staff communicated the need for connectivity for “all kinds of” transportation users and encouraged integration between the existing homes and the new neighborhood with a full road connection. On the other hand, members of the community, including residents of Hoffman Drive, opposed a road connection because of concerns about cut through traffic from Ridge Road and the impact to residents on what has been a quiet street, with no through traffic, for more than 50 years. Applicant has worked to accommodate both sides of this issue by designing a less direct vehicular connection from Hoffman Drive, through the Property to Kings Valley Road. This proposed connection is supported in a letter dated January 13, 2023, where DOT expressed agreement with Applicant’s proposed Hoffman Drive alignment, stating: “We agree with the overall proposal of Hoffman Drive as shown,” and asked for additional information (grades, centerline information, site distance, etc.) to ensure that the road functions as required by DOT. Applicant has studied the issues and is comfortable that the proposed alignment will comply with DOT requirements.

The Board appreciated the connection discussed at the Pre-Preliminary Plan hearing, but before accepting Applicant’s proposed alignment, the Board also complied with Staff’s request that Applicant study an alternative providing a direct cut-through from Ridge Road through to Kings Valley Road. Applicant has done so (Exhibit B)

After investigating the alternative alignment in Exhibit B, Applicant concludes that the original proposed alignment accommodates the site constraints and required engineering, creates a community connection and discourages cut through traffic, while meeting the goals of the Master Plan and Thrive 2050.

## **2. Pre-Preliminary Plan: Connection to Damascus Park**

The Pre-Preliminary Plan application reviewed a potential requirement for Applicant to construct an off-site path, approximately 1,300 feet long, along Kings Valley Road, down to Damascus Regional Park. During the Pre-Preliminary Plan hearing, the Applicant explained that the burden of this connection would be problematic for a project of this size due to current right-of-way constraints and the significant cost of such a connection. Under recent County estimates for such paths, it was determined that the cost could be up to \$45,000 per dwelling unit, contrary to County housing affordability goals. Damascus Regional Park is located on Kings Valley Road, about one-half mile from the Project, and would require the development of the trail on land that has been actively farmed for almost 100 years. Moreover, Kings Valley Road is a country road with a prescriptive right-of-way of only 22 feet, which accommodates only the existing pavement. It is a narrow and winding country road with hills and limited sight lines, and there are no plans for any improvements. There are no bicycle or pedestrian facilities elsewhere along Kings Valley Road. Neither the Damascus Master Plan, the Clarksburg Master Plan, the Master Plan of Highways nor the Bicycle Master Plan propose changes to Kings Valley Road or a pedestrian or bicycle connection along it, presumably because of the physical constraints and limited demand. Moreover, this connection is not required by the subdivision regulations, and it is not required by LATR. Based on these factors, the Board determined that Applicant should not be required to construct the path.

### **3. Pre-Preliminary Plan Issue: Location and Distribution of the MPDUs**

Originally, the Project proposed one stick of rear-load MPDU townhomes that would front the village green. Staff asked the Applicant to review the unit location of MPDUs and try to divide them into smaller buildings that blend better with the single family detached units and disperse these MPDUs into them into more than one location throughout the Project. Applicant reviewed Staff's feedback and modified the mix and location of the townhomes, by incorporating the MPDUs in the Pre-Preliminary Plan into separate buildings, which was generally approved by the Planning Board and now is reflected in the Preliminary Plan.

#### **Master Plan Conformance**

The proposed development conforms with the 1994 approved and adopted Clarksburg Master Plan. The Plan provides for residential development clustered on this tract under the Optional Method of Development, along with protection of the natural environment including forested buffers and stream valleys. As noted above, the proposed roadway and pedestrian system also conforms with the recommendations in the Master Plan as well.

#### **Zoning Ordinance Conformance**

Section 59.4.4.6. allows either large-lot residential use in the RE-1 zone, under the Standard Method, or MPDU development in a cluster format, where properties like this are served by public sewer service or designated for such service in the Master Plan. This application meets those requirements and Applicant seeks Optional Method approval consistent with the Pre-Preliminary Plan approval.

#### **Development Standards**

The data table shows compliance with the requirements under the Optional Method of Development in the RE-1 zone.

DATA TABLE						
RE-1 OPTIONAL METHOD MPDU DEVELOPMENT						
	Required			Proposed		
	Detached House	Duplex	Townhouse	Detached House	Duplex	Townhouse
Site						
Dimensions (Min.) Useable Area	17 AC			37.85 AC		
Density (Units per Useable AC)	1.22 (20 units)			1.22 (46 units)		
Open Space (Min.)	10%			10%		
Site Coverage (Max.)	N/A	N/A	40%	N/A	N/A	40%
Lot						
Dimensions (Min.)						
Lot Area	9,000 SF	4,500 SF	1,200 SF	9,000 SF (Min.)	4,500 SF (Min.)	1,200 SF (Min.)
Lot Width at Front Building Line	Determined at Site Plan			Determined at Site Plan		
Lot Width at Front Lot Line	25 Feet	25 Feet	14 Feet	25 Feet (Min.)	25 Feet (Min.)	14 Feet (Min.)
Frontage on Street or Open Space	Required			Required		
Coverage	35%	35%	N/A	35%	35%	N/A
Placement						
Front Setback from Public Street	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet
Front Setback from Private Street or open space	10 Feet	10 Feet	10 Feet	10 Feet	10 Feet	10 Feet
Side Street Setback, Abutting Lot fronts on the side street and is in a Residential Detached zone	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet
Side Street Setback, Abutting Lot does not front on the side street or is not in a Residential Detached zone	20 Feet	20 Feet	20 Feet	20 Feet	20 Feet	20 Feet
Side or rear setback	Determined at Site Plan			Determined at Site Plan		
Side setback, abutting property not included in application	20 Feet			20 Feet		
Rear setback, alley	4 Feet	4 Feet	4 Feet	4 Feet	4 Feet	4 Feet
Height						
Principal Building	40 Feet	40 Feet	40 Feet	40 Feet	40 Feet	40 Feet

### Adequate Public Facilities

A traffic study has been completed for the Project, located in the “green” transportation policy area, showing the adequacy of the transportation system. Other public facilities also will be more than adequate to accommodate the proposed development. This includes police and fire service. The project is located within the “turnover” area for schools and, will be assigned to one of the following school clusters: Rockwell Elementary School, Baker Middle School and Damascus High School, or Cedar Grove Elementary School, Hallie Wells Middle School and Damascus Highschool. Per the current student generation rate calculator for turnover areas, the Property will generate fewer than nine elementary school students, five middle school students, and seven high school students. The school clusters



serving this Project can accommodate the proposed development under the standards of the Growth and Infrastructure Policy.

### **Subdivision Standards**

As reflected in the Preliminary Plan, the overall layout of the subdivision, including the size, width, shape, orientation and density of lots as well as the location and design of roads, is appropriate given the site's location and the type of development contemplated. The roads, including the connection to Hoffman Drive, are proposed public streets and have been designed referencing complete streets with input from the Montgomery County Department of Transportation. The block design meets the goals of Section 50.4.3.B of the Subdivision Regulations. Consistent with the provisions of Section 50.4.3.D, adequate open space areas are provided for the use of the residents. Water supply and sewage disposal facilities have been deemed appropriate for the project, as outlined in the Clarksburg Master Plan and per the County Council Adopted Resolution on October 30, 2018 that requires a water and sewer category change to W-3, S-3 upon the approval of the Preliminary Plan showing a cluster or MPDU option development. Finally, stormwater management reviews and approvals have occurred and the location of utilities meets applicable requirements.

### **Forest Conservation**

The Property is subject to the requirements of Chapter 22A of the Montgomery County Code (the "Forest Conservation Law"). An NRI/FSD was prepared for the property and approved by MNCPPC on December 15, 2021. The NRI/FSD denotes discrete forest areas on the site. The Applicant has designed the project to protect the existing environmental features to the extent practicable. Applicant has submitted a Preliminary Forest Conservation Plan. The Property contains no protected soils,

endangered species or other natural features not mentioned above that would impact the development. No streams, stream valley buffers or wetlands or 100-year floodplain areas will be impacted.

### **Stormwater Management**

The project will comply with the requirements of Chapter 19 of the Montgomery County Code. Because a project will result in more than 5,000 sq. ft. of disturbance, the Applicant prepared a Stormwater Management Concept Plan. The Applicant has submitted a stormwater narrative and is filing a Stormwater Management Concept Plan in connection with this application. In accordance with MDE Stormwater Management Regulations, the Property will incorporate bio-retention planters and facilities to implement Environmental Site Design practices to the maximum extent practicable. The Property is not in a Special Protection Area, so no separate water quality monitoring plan is required. A Sediment and Erosion Control Plan will be submitted to DPS for approval prior to commencement of construction.

# EXHIBIT A

## Montgomery County Planning Board

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

MCPB No. 23-018

Pre-Preliminary Plan No. 720220020

Tregoning Property

Date of Hearing: February 23, 2023

MAR 03 2023

### RESOLUTION

WHEREAS, under Montgomery County Code Chapter 50, the Montgomery County Planning Board is authorized to review preliminary plan applications; and

WHEREAS, on August 24, 2022, Elm Street Development (“Applicant”) filed an application requesting a binding decision by the Planning Board on the issues of the Hoffman Drive connection, the off-site connection to Damascus Recreational Park, and the location and distribution of MPDUs, located on Kings Valley Road, west of Preakness Drive (“Subject Property”), in the Goshen Policy Area and 1994 *Clarksburg Master Plan & Hyattstown Special Study Area* (“Master Plan”) area; and

WHEREAS, Applicant’s application was designated Pre-Preliminary Plan No. 720220020, Tregoning Property (“Pre-Preliminary Plan” or “Application”); and

WHEREAS, following review and analysis of the Application by Planning Board staff (“Staff”) and other governmental agencies, Staff issued a memorandum to the Planning Board, dated February 13, 2023, providing its analysis and recommendation for approval of the Application, subject to certain conditions (“Staff Report”); and

WHEREAS, on February 23, 2023, the Planning Board held a public hearing on the Application and voted to approve the Application subject to conditions, on the motion of Commissioner Hill, seconded by Commissioner Branson, with a vote of 5-0; Chair Zyontz, Commissioners Branson, Hill, Piñero and Presley voting in favor..

NOW, THEREFORE, BE IT RESOLVED that the Planning Board APPROVES Pre-Preliminary Plan No. 720220020 and supports the submission of preliminary plan and site plan applications that, at a minimum, address the following recommendations on the issues of the Hoffman Drive connection and the location and distribution of MPDUs on the Subject Property. The Planning Board supports the Hoffman Drive connection and the location and distribution of MPDUs. The Planning Board reviewed in detail the issue of a road connection to Hoffman Drive and considered opposition by some area residents and by the Applicant. The Planning Board concluded that an internal road connection is required under the Subdivision Regulations and applicable Master Plan guidelines, but also recognized the community concerns about potential cut through traffic. The Applicant presented an option for connecting Hoffman Drive that

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[www.montgomeryplanningboard.org](http://www.montgomeryplanningboard.org) | [mcp-chair@mncppc.org](mailto:mcp-chair@mncppc.org)

Approved as to

Legal Sufficiency: /s/ Matthew T. Mills

M-NCPPC Legal Department

would discourage cut through traffic, but which would also provide a through street connection. Based on the Planning Board's request, the Applicant will evaluate at least one additional alternative alignment that would provide a direct route from Maryland 27 to Kings Valley Road in the Preliminary Plan submission at which time the Planning Board will consider the potential impacts of this alternative design with respect to cut through traffic, site grading, reduction in the number of housing units on the property, forest impact and sewer engineering. The Planning Board supports the location and distribution of MPDUs as duplex and triplex units, which would resemble single family detached units in terms of massing and architecture. The Planning Board did not support the proposed off-site connection, as a shared-use path along Kings Valley Road, to Damascus Recreational Park, but recognizes the limits of any developer obligations to construct or pay for the side path extension based on right-of-way constraints along Kings Valley Road, engineering and construction issues based on topography and farm crops, and the reasonableness and proportionality of the cost based on provisions in the Subdivision Regulations, 2020 – 2024 Growth and infrastructure Policy, Local Area Transportation Review Guidelines, and recently approved policy guidance on construction and fee-in-lieu for frontage improvements. Staff and the Applicant will review additional options, including a more direct connection to Damascus Park, crossing Kings Valley Road near the southern corner of the Subject Property, subject to the following conditions:<sup>1</sup>

1. Hoffman Drive Connection – The Applicant must provide an extension of existing Hoffman Drive as a public road from the existing terminus point through the Subject Property to Kings Valley Road to accommodate full vehicular and multimodal movement. The Applicant must provide at least one alignment alternative to illustrate a connection directly to Preakness Drive in addition to an alternative to connect to proposed internal Street C.
2. Road Dedication – The Preliminary Plan shall provide adequate right-of-way dedication to support all public roads and facilities as required by the Complete Streets Design Guidelines within the Subject Property.
3. A multimodal transportation study may be required; the subsequent application is subject to the 2022 LATR guidelines.
4. The Planning Board has reviewed and accepts the recommendations of the Montgomery County Department of Transportation (“MCDOT”) in its letter dated January 13, 2023, and incorporates them as conditions of the Pre-Preliminary Plan approval. The Applicant must comply with each of the recommendations in

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<sup>1</sup> For the purpose of these conditions, the term “Applicant” shall also mean the developer, the owner or any successor(s) in interest to the terms of this approval.

the letter, which may be amended by MCDOT if the amendment does not conflict with any other conditions of the Pre-Preliminary Plan approval.

5. The Applicant shall address layout and design related comments provided by Planning Staff at Preliminary Plan and Site Plan. Sight distance evaluations of proposed public access points for proposed roads on Kings Valley Road will be reviewed and must be addressed as part of the subsequent plan reviews.
6. The Applicant must provide MPDUs as duplex or triplex units that closely resemble single family detached units in terms of massing and architecture, dispersed throughout the Subject Property.

BE IT FURTHER RESOLVED that having considered the recommendations of its Staff as presented at the hearing and as set forth in the Staff Report, the Board hereby adopts and incorporates said Staff Report by reference.

BE IT FURTHER RESOLVED that this Pre-Preliminary Plan binding review will remain valid for 90 days from the date of mailing of the Board resolution for the Pre-Preliminary Plan. The Applicant must file a Preliminary Plan application within this time period in order for the approval not to expire under Section 50.5.2.C.3.a; and

BE IT FURTHER RESOLVED that this Resolution constitutes the written opinion of the Board in this matter, and the date of this Resolution is MAR 03 2023 (which is the date that this Resolution is mailed to all parties of record); and

BE IT FURTHER RESOLVED that any party authorized by law to take an administrative appeal must initiate such an appeal within thirty days of the date of this Resolution, consistent with the procedural rules for the judicial review of administrative agency decisions in Circuit Court (Rule 7-203, Maryland Rules).

\* \* \* \* \*

**CERTIFICATION**

This is to certify that the foregoing is a true and correct copy of a resolution adopted by the Montgomery County Planning Board of The Maryland-National Capital Park and Planning Commission on motion of Commissioner Piñero, seconded by Commissioner Branson, with a vote of 5-0; Chair Zyontz, Vice Chair Presley, and Commissioners Branson, Hill, and Piñero, voting in favor of the motion, at its regular meeting held on Thursday, March 2, 2023, in Wheaton, Maryland and via video conference.

  
\_\_\_\_\_  
Jeffrey Zyontz, Chair  
Montgomery County Planning Board

Gina King  
10522 Santa Anita Terr,  
Damascus, MD

Mary Gene Martin  
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Suite 700  
Bethesda, Maryland 20814

Tregoning Property,  
Pre-Preliminary Plan No.  
720220020



# EXHIBIT B

ROAD GRADING STUDY  
**HOFFMAN ROAD EXHIBIT**  
 TREGONING PROPERTY  
 DAMASCUS (12th) ELECTION DISTRICT  
 MONTGOMERY COUNTY, MARYLAND

**CPJ** Charles P. Johnson & Associates, Inc.  
 Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors  
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CLIENT: ESC TREGONING LLC KATHRYN KURT 1855 BEVERLY RD. SUITE 240, MCLEAN VA 22101 KKURT@ELASTREETDEV.COM	ISSUE: 23NW11	TAX MAP: FW122
DESIGN: PRELIM.	DRAFT: MED.	SHEET: 1 OF 1
DATE: MAR, 2023	SCALE: AS SHOWN	FILE NO.: 2020-1348-94.09 B

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# TREGONING PROPERTY

## PRELIMINARY PLAN 120230120

**GENERAL NOTES**

1. SITE IS LOCATED ON PARCEL 104 (17.81 ACRES, TAX ID 3899025)
2. TOTAL SUBJECT AREA INCLUDES PARCEL 617 (19.80 ACRES, TAX ID 03890014) AND THE RIDGE ROAD DEDICATION (0.24 ACRES, SRC PLAT NO. 12211)
3. TOTAL SUBJECT AREA COVERS 37.85 ACRES
4. TWO FUTURE DWELLING UNITS TO BE DEVELOPED FOR COMMERCIAL OR RESIDENTIAL USE ON TWO OUTLOTS ON PARCEL 617.
5. SITE IS LOCATED IN ELECTION DISTRICT 12.
6. SITE IS LOCATED ON WSC 200 SHEET 233NW11.
7. SITE IS WITHIN THE SENECA CREEK WATERSHED (MD 8-DIGIT WATERSHED 02140208, HUC 02070008)
8. WSC SERVICE CATEGORIES: S-5, W-5, R170WC03A
9. SITE IS TO BE SERVICED BY PUBLIC WATER AND SEWER
10. ON-SITE STREAMS ARE MARYLAND USE CLASS N.P. RECREATIONAL TROUT WATERS AND PUBLIC WATER SUPPLY. BUFFERS WERE EXPANDED PER GUIDELINES FOR ENVIRONMENTAL MANAGEMENT OF DEVELOPMENT IN MONTGOMERY COUNTY.
11. THE SITE IS NOT WITHIN A SPECIAL PROTECTION AREA
12. A WETLAND DELINEATION WAS PERFORMED BY ENVIRONMENTAL SYSTEMS ANALYSIS INC. ON APRIL 28, 2021 AND JUNE 15, 2021.
13. THE SITE CONTAINS TWO TYPES OF ERODIBLE SOILS, 16D BRINKLOW-BLOCKTOWN CHANNERY SILT LOAMS, 15-25% SLOPES, AND 116E BLOCKTOWN CHANNERY SILT LOAM, 25-45% SLOPES, VERY ROCKY.
14. NO TREES ON SITE WERE FOUND TO BE NATIONAL, STATE, OR COUNTY CHAMPION TREES, OR WITHIN 75% OF THE CURRENT STATE CAMPION.
15. NO PART OF THE PROJECT IS LISTED ON THE LOCATIONAL ATLAS OR INDEX OF HISTORICAL SITES.
16. NO FEDERAL OR MARYLAND RARE, THREATENED, OR ENDANGERED SPECIES WERE OBSERVED OR PREVIOUSLY DOCUMENTED ON-SITE BY MD DNR.



**SHEET INDEX**

- SHEET 1: COVER SHEET
- SHEET 2: APPROVAL SHEET
- SHEET 3: PARCEL 104 30-SCALE PLAN
- SHEET 4: PARCEL 104 30-SCALE PLAN
- SHEET 5: PARCEL 617 30-SCALE PLAN
- SHEET 6: PARCEL 617 30-SCALE PLAN
- SHEET 7: PARCEL 617 30-SCALE PLAN
- SHEET 8: PARCEL 617 30-SCALE PLAN

**DATA TABLE**  
RE-1 OPTIONAL METRIC MPDU DEVELOPMENT

	Required			Proposed		
	Detached House	Duplex	Townhouse	Detached House	Duplex	Townhouse
Site	17 AC					
Dimensions (Min)	37.85 AC					
Useable Area	1.22 (20 units)					
Density (Units per Useable AC)	1.22 (46 units)					
Open Space (Min)	10%					
Site Coverage (Max)	N/A	N/A	40%	N/A	N/A	40%
Lot Dimensions (Min)	Determined at Site Plan					
Lot Area	9,000 SF	4,500 SF	1,200 SF	9,000 SF (Min)	4,500 SF (Min)	1,200 SF (Min)
Lot Width at Front Building Line	Determined at Site Plan					
Lot Width at Front Lot Line	25 Feet	25 Feet	14 Feet	25 Feet (Min)	25 Feet (Min)	14 Feet (Min)
Frontage on Street or Open Space	Required			Required		
Coverage	35%	35%	N/A	35%	35%	N/A
Placement						
Front Setback from Public Street	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet
Front Setback from Private Street or open space	10 Feet	10 Feet	10 Feet	10 Feet	10 Feet	10 Feet
Side Street Setback, Abutting lot front on the side street and is in a Residential Detached zone	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet	35 Feet
Side Street Setback, Abutting lot front on the side street or is not in a Residential Detached zone	20 Feet	20 Feet	20 Feet	20 Feet	20 Feet	20 Feet
Side or rear setback	Determined at Site Plan					
Side setback, abutting property not included in application	20 Feet					
Rear setback, alley	4 Feet	4 Feet	4 Feet	4 Feet	4 Feet	4 Feet
Height						
Principal Building	40 Feet	40 Feet	40 Feet	40 Feet	40 Feet	40 Feet

**PRE-PRELIMINARY PLAN 720220020 CONDITIONS OF APPROVAL**

1. HOFFMAN DRIVE CONNECTION - THE APPLICANT MUST PROVIDE AN EXTENSION OF EXISTING HOFFMAN DRIVE AS A PUBLIC ROAD FROM THE EXISTING TERMINUS POINT THROUGH THE SUBJECT PROPERTY TO KINGS VALLEY ROAD TO ACCOMMODATE FULL VEHICULAR AND MULTIMODAL MOVEMENT. THE APPLICANT MUST PROVIDE AT LEAST ONE ALIGNMENT ALTERNATIVE TO ILLUSTRATE A CONNECTION DIRECTLY TO PRAEKNESS DRIVE IN ADDITION TO AN ALTERNATIVE TO CONNECT TO PROPOSED INTERNAL STREET C.
2. ROAD DEDICATION - THE PRELIMINARY PLAN SHALL PROVIDE ADEQUATE RIGHT-OF-WAY DEDICATION TO SUPPORT ALL PUBLIC ROADS AND FACILITIES AS REQUIRED BY THE COMPLETE STREET'S DESIGN GUIDELINES WITHIN THE SUBJECT PROPERTY.
3. A MULTIMODAL TRANSPORTATION STUDY MAY BE REQUIRED; THE SUBSEQUENT APPLICATION IS SUBJECT TO THE 2022 LATR GUIDELINES.
4. THE PLANNING BOARD HAS REVIEWED AND ACCEPTS THE RECOMMENDATIONS OF THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) IN ITS LETTER DATED JANUARY 13, 2023, AND INCORPORATES THEM AS CONDITIONS OF THE PRE-PRELIMINARY PLAN APPROVAL. THE APPLICANT MUST COMPLY WITH EACH OF THE RECOMMENDATIONS IN THE LETTER, WHICH MAY BE AMENDED BY MCDOT IF THE AMENDMENT DOES NOT CONFLICT WITH ANY OTHER CONDITIONS OF THE PRE-PRELIMINARY PLAN APPROVAL.
5. THE APPLICANT SHALL ADDRESS LAYOUT AND DESIGN RELATED COMMENTS PROVIDED BY PLANNING STAFF AT PRELIMINARY PLAN AND SITE PLAN. SIGHT DISTANCE EVALUATIONS OF PROPOSED PUBLIC ACCESS POINTS FOR PROPOSED ROADS ON KINGS VALLEY ROAD WILL BE REVIEWED AND MUST BE ADDRESSED AS PART OF THE SUBSEQUENT PLAN REVIEWS.
6. THE APPLICANT MUST PROVIDE MPDU'S AS DUPLEX OR TRIPLEX UNITS THAT CLOSELY RESEMBLE SINGLE FAMILY DETACHED UNITS IN TERMS OF MASSING AND ARCHITECTURE, DISPERSED THROUGHOUT THE SUBJECT PROPERTY.

RIDGE ROAD DEDICATION (0.24 AC.)

UNDEVELOPED PARCEL 617 (19.80 AC.)  
2 BUILDABLE OUTLOTS

DEVELOPMENT PARCEL 104 (17.81 AC.)  
44 LOTS



**LEGEND**

- BOUNDARY LINE
- LIMIT OF DISTURBANCE
- EXISTING TREE LINE
- EXISTING OVERHEAD LINES
- EXISTING SEWER LINE
- EXISTING WATER LINE
- EXISTING WOOD FENCE
- EXISTING FENCE
- EXISTING FIRE WREATH
- EXISTING CONTOUR
- PROPOSED CONTOUR
- STREAM VALLEY BUFFER
- WETLAND BUFFER
- WATERS OF THE U.S.
- NONFEDERAL WETLANDS
- NONFEDERAL PFD WETLANDS
- PROPOSED FRONT DOOR
- LOT SERVICED BY WELL PER MCDOT AS WELL LOCATION TO BE FIELD LOCATED

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: 4234  
EXPIRATION DATE: 10/20/2023

Not valid without signature

**DEVELOPER'S CERTIFICATE**

THE UNDERSIGNED AGREES TO EXECUTE ALL FEATURES OF THE PRELIMINARY PLAN APPROVAL NO. 120230120, INCLUDING APPROVAL CONDITIONS, DEVELOPMENT PROGRAM AND CERTIFIED PRELIMINARY PLAN.

DEVELOPER'S NAME: TSC, INC. 2030120  
ADDRESS: 1355 BEVELY ROAD, SUITE 240, MILLERSVILLE, MD 21101  
PHONE: (301) 734-9135  
SIGNATURE: \_\_\_\_\_

UPDATES/REVISIONS

NO.	DATE	DESCRIPTION

COVER SHEET  
PRELIMINARY PLAN 120230120

**TREGONING PROPERTY**  
DAMASCUS (12th) ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

**CPJ Charles P. Johnson & Associates, Inc.**  
Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors

1775 Eldon Rd., Ste. 300 Silver Spring, MD 20910 301.434.7000 Fax: 301.434.1074  
www.cpj.com • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Greenbelt, MD • Frederick, MD • Beltsville, VA

STATE: MONTGOMERY COUNTY, MARYLAND  
TAX MAP: 233NW11  
SHEET: 1 OF 8  
DATE: AUGUST 2023  
SCALE: AS SHOWN  
FILE NO.: 2023.1248.10.11





# Montgomery County Planning Board

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

MCPB No. 23-018

Pre-Preliminary Plan No. 720220020

Tregoning Property

Date of Hearing: February 23, 2023

MAR 03 2023

## RESOLUTION

WHEREAS, under Montgomery County Code Chapter 50, the Montgomery County Planning Board is authorized to review preliminary plan applications; and

WHEREAS, on August 24, 2022, Elm Street Development ("Applicant") filed an application requesting a binding decision by the Planning Board on the issues of the Hoffman Drive connection, the off-site connection to Damascus Recreational Park, and the location and distribution of MPDUs, located on Kings Valley Road, west of Preakness Drive ("Subject Property"), in the Goshen Policy Area and 1994 *Clarksburg Master Plan & Hyattstown Special Study Area* ("Master Plan") area; and

WHEREAS, Applicant's application was designated Pre-Preliminary Plan No. 720220020, Tregoning Property ("Pre-Preliminary Plan" or "Application"); and

WHEREAS, following review and analysis of the Application by Planning Board staff ("Staff") and other governmental agencies, Staff issued a memorandum to the Planning Board, dated February 13, 2023, providing its analysis and recommendation for approval of the Application, subject to certain conditions ("Staff Report"); and

WHEREAS, on February 23, 2023, the Planning Board held a public hearing on the Application and voted to approve the Application subject to conditions, on the motion of Commissioner Hill, seconded by Commissioner Branson, with a vote of 5-0; Chair Zyontz, Commissioners Branson, Hill, Piñero and Presley voting in favor..

NOW, THEREFORE, BE IT RESOLVED that the Planning Board APPROVES Pre-Preliminary Plan No. 720220020 and supports the submission of preliminary plan and site plan applications that, at a minimum, address the following recommendations on the issues of the Hoffman Drive connection and the location and distribution of MPDUs on the Subject Property. The Planning Board supports the Hoffman Drive connection and the location and distribution of MPDUs. The Planning Board reviewed in detail the issue of a road connection to Hoffman Drive and considered opposition by some area residents and by the Applicant. The Planning Board concluded that an internal road connection is required under the Subdivision Regulations and applicable Master Plan guidelines, but also recognized the community concerns about potential cut through traffic. The Applicant presented an option for connecting Hoffman Drive that

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2425 Reedie Drive, Floor 14, Wheaton, MD 20902 | Phone: 301-495-4605 | Fax: 301-495-1320

[www.montgomeryplanningboard.org](http://www.montgomeryplanningboard.org) | [mcp-chair@mcpcppc.org](mailto:mcp-chair@mcpcppc.org)

Approved as to

Legal Sufficiency: /s/ Matthew T. Mills

M-NCPPC Legal Department

would discourage cut through traffic, but which would also provide a through street connection. Based on the Planning Board's request, the Applicant will evaluate at least one additional alternative alignment that would provide a direct route from Maryland 27 to Kings Valley Road in the Preliminary Plan submission at which time the Planning Board will consider the potential impacts of this alternative design with respect to cut through traffic, site grading, reduction in the number of housing units on the property, forest impact and sewer engineering. The Planning Board supports the location and distribution of MPDUs as duplex and triplex units, which would resemble single family detached units in terms of massing and architecture. The Planning Board did not support the proposed off-site connection, as a shared-use path along Kings Valley Road, to Damascus Recreational Park, but recognizes the limits of any developer obligations to construct or pay for the side path extension based on right-of-way constraints along Kings Valley Road, engineering and construction issues based on topography and farm crops, and the reasonableness and proportionality of the cost based on provisions in the Subdivision Regulations, 2020 – 2024 Growth and infrastructure Policy, Local Area Transportation Review Guidelines, and recently approved policy guidance on construction and fee-in-lieu for frontage improvements. Staff and the Applicant will review additional options, including a more direct connection to Damascus Park, crossing Kings Valley Road near the southern corner of the Subject Property, subject to the following conditions:<sup>1</sup>

1. Hoffman Drive Connection – The Applicant must provide an extension of existing Hoffman Drive as a public road from the existing terminus point through the Subject Property to Kings Valley Road to accommodate full vehicular and multimodal movement. The Applicant must provide at least one alignment alternative to illustrate a connection directly to Preakness Drive in addition to an alternative to connect to proposed internal Street C.
2. Road Dedication – The Preliminary Plan shall provide adequate right-of-way dedication to support all public roads and facilities as required by the Complete Streets Design Guidelines within the Subject Property.
3. A multimodal transportation study may be required; the subsequent application is subject to the 2022 LATR guidelines.
4. The Planning Board has reviewed and accepts the recommendations of the Montgomery County Department of Transportation (“MCDOT”) in its letter dated January 13, 2023, and incorporates them as conditions of the Pre-Preliminary Plan approval. The Applicant must comply with each of the recommendations in

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<sup>1</sup> For the purpose of these conditions, the term “Applicant” shall also mean the developer, the owner or any successor(s) in interest to the terms of this approval.

the letter, which may be amended by MCDOT if the amendment does not conflict with any other conditions of the Pre-Preliminary Plan approval.

5. The Applicant shall address layout and design related comments provided by Planning Staff at Preliminary Plan and Site Plan. Sight distance evaluations of proposed public access points for proposed roads on Kings Valley Road will be reviewed and must be addressed as part of the subsequent plan reviews.
6. The Applicant must provide MPDUs as duplex or triplex units that closely resemble single family detached units in terms of massing and architecture, dispersed throughout the Subject Property.

BE IT FURTHER RESOLVED that having considered the recommendations of its Staff as presented at the hearing and as set forth in the Staff Report, the Board hereby adopts and incorporates said Staff Report by reference.

BE IT FURTHER RESOLVED that this Pre-Preliminary Plan binding review will remain valid for 90 days from the date of mailing of the Board resolution for the Pre-Preliminary Plan. The Applicant must file a Preliminary Plan application within this time period in order for the approval not to expire under Section 50.5.2.C.3.a; and

BE IT FURTHER RESOLVED that this Resolution constitutes the written opinion of the Board in this matter, and the date of this Resolution is MAR 03 2023 (which is the date that this Resolution is mailed to all parties of record); and

BE IT FURTHER RESOLVED that any party authorized by law to take an administrative appeal must initiate such an appeal within thirty days of the date of this Resolution, consistent with the procedural rules for the judicial review of administrative agency decisions in Circuit Court (Rule 7-203, Maryland Rules).

\* \* \* \* \*

**CERTIFICATION**

This is to certify that the foregoing is a true and correct copy of a resolution adopted by the Montgomery County Planning Board of The Maryland-National Capital Park and Planning Commission on motion of Commissioner Piñero, seconded by Commissioner Branson, with a vote of 5-0; Chair Zyontz, Vice Chair Presley, and Commissioners Branson, Hill, and Piñero, voting in favor of the motion, at its regular meeting held on Thursday, March 2, 2023, in Wheaton, Maryland and via video conference.

  
\_\_\_\_\_  
Jeffrey Zyontz, Chair  
Montgomery County Planning Board



Gina King  
10522 Santa Anita Terr,  
Damascus, MD

Mary Gene Martin  
23932 Jockey Club Terrace  
Damascus, Maryland 20872-2140

Lauren Bull  
24009 Dessert Wine Ct  
Damascus, MD 20872

Tammy Cheraghi  
24105 Ridge Road  
Germantown, Maryland 20876

TIMOTHY GUINAN  
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Germantown, MD 20876

Kate Kubit  
1355 BEVERLY ROAD  
SUITE 240  
McLEAN, VIRGINIA 22101

John Tregoning  
23715 Ridge Road  
Germantown Maryland 20876

Michael Loe  
1751 Elton Road, Suite 300  
Silver Spring, Maryland 20903

Robert Harris  
7600 Wisconsin Avenue  
Suite 700  
Bethesda, Maryland 20814

Tregoning Property,  
Pre-Preliminary Plan No.  
720220020



## DEPARTMENT OF TRANSPORTATION

Marc Elrich  
County Executive

Christopher R. Conklin  
Director

October 24, 2023

Mr. Jeffrey Server, Planner III  
Upcounty Planning Division  
The Maryland-National Capital  
Park & Planning Commission (M-NCPPC)  
2425 Reddie Drive,  
Wheaton, MD 20902

RE: Design Exception, Preliminary Plan, and  
Traffic Impact Study (TIS) Letter  
Preliminary Plan No. 120230120  
Tregoning Property

Dear Mr. Server:

We have completed our review of the Design Exception waiver uploaded to eplans on August 3, 2023, the revised Preliminary Plan uploaded to eplans on August 22, 2023, and the TIS dated May 05, 2023. A previous Preliminary Plan was reviewed by the Development Review Committee at its July 18, 2023, meeting. We recommend approval of the plan subject to the following comments:

**Design Exception Waiver:**

1. **Applicant's request:** The applicant requests that the Planning Board utilize Section 50.4.3.E.2.a of the County Code to allow for 50-foot right-of-way (ROW) for unnamed streets within the Tregoning Property (specifically Street 'A', Street 'B', and Street 'C'). These 50-foot ROW would accommodate the following cross section:
  - 2-10.5-ft travel lanes (21-ft of paving)
  - 2-6-ft grass panels
  - 2-6-ft sidewalks (one on each side of the street)
  - 2-2-ft maintenance buffers on each side of the street.

**MCDOT Response:** We **recommend** the Planning Board approve the reduced ROW request for Street 'A', Street 'B', and Street 'C' as shown on the preliminary plan. These proposed public streets will be classified as Neighborhood Streets and per Montgomery County code 49-32(c), need a minimum of 60-ft ROW. However, the property is zoned RE-1, which requires a minimum of 9,000 square foot lot and a 35-foot front yard setback from the public street. A 35-foot setback is not

**Office of the Director**

101 Monroe Street 10<sup>th</sup> Floor · Rockville Maryland 20850 · 240-777-7170 · 240-777-7178 FAX

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*Located one block west of the Rockville Metro Station*

standard with most developments. The reduction in ROW width is necessary to maintain an efficient lot layout and reduce the overall footprint of the project while maintaining zoning setback requirements. All roads will continue to operate safely and efficiently for emergency access, vehicle travel, and pedestrian movement. All road features – travel lanes, sidewalks, curbs, gutters, and tree panels will be included and meet current standards. The reduction in ROW space is largely gained through placement of limited stormwater features outside of the ROW in private easement areas, as well as the reduction of most street parking. However, this should not be understood to set future precedent for development applications.

### **Significant Preliminary Pan Comments**

1. **Hoffman Drive:**
  - a. The following items shall be revised **prior to the certification of the preliminary plan** based on the applicant's letter and additional documents dated October 17, 2023:
    - i. The proposed extension of the roadway is a closed section roadway, and the existing portion is an open section roadway. STA.10+50 +/- is the transition area from an open section roadway to closed section roadway. We agree with the concept provided in Sheet 21-RG-120230120 by removing the existing temporary turnaround, extending the proposed curb & gutter and providing a curb cut for the runoff to drain into the existing swale. At the permit stage the applicant shall work with the Department of Permitting Services (DPS) for the final details.
    - ii. Provide a roadway cross section for the closed section of Hoffman Drive.
  - b. At the **right-of-way permit stage**, the applicant shall work with DPS for the proposed sidewalk connection and termination.
2. **Street 'A', 'B' and 'C':** We agree with the proposed roadways for the following reasons:
  - a. If the reduced ROW is approved by the Planning Board, the proposed roadways shall be per the cross section as mentioned above in Design Exception Waiver Section. If the Planning Board does not approve the waiver, then the plans will need to be revised **prior to the certification of the preliminary plan**.
  - b. The minimum horizontal centerline radius of 150-ft is provided for all the proposed roadways as per the Montgomery County Code 50(4.3)(E)(2)(g).
  - c. Per the Grade Establishment Plan Street 'B' has reverse curves (Curves C3 & C4) without a tangent between them. The Montgomery County Code 50(4.3)(E)(2)(g) allows reverse curves without a tangent for Neighborhood Streets.

- d. Sheets- 32-Street A-GEP & 32-Street B-GEP: **Prior to the certification of the preliminary plan**, the Grade Establishment plan should show how the proposed grades are tied into the existing grades.
  - e. The proposed street termination shall meet the Montgomery County standard MC-223.02.
3. **Kings Valley Road:**
- a. **At the right-of-way permit stage**, the applicant shall work with DPS for the proposed sidewalk connection and termination.
  - b. **Prior to Certification of the preliminary plan** the following shall be addressed:
    - i. The plans show a proposed sidewalk in the right-of-way and in a Public Improvement Easement (PIE). The letter and the additional documents submitted on October 17, 2023, show the proposed sidewalk in the right-of-way; therefore, a PIE is not needed.
    - ii. We strongly recommend that the proposed right-of-way /property line should match the AT&T easement line instead of a 1-ft +/- gap between which is unusable.
    - iii. Since a Public Utility Easement (PUE) is not provided, please provide a letter from the utility companies that a PUE is not required, and the ROW will not be utilized for the proposed dry utilities. If the applicant can't obtain approval, then they will need to provide a 10-foot-wide PUE along all street frontages. The PUE would need to be graded out at a maximum 4:1 slope.
    - iv. The plans should include the cross sections starting at the edge of pavement and going out with a minimum 5-ft grass shoulder, a swale with a 2-ft flat bottom, a minimum 8-ft asphalt sidepath and a minimum 1-ft buffer at the following locations:
      - North of Street 'C'/Glade Valley Terrace.
      - Between Street 'C'/Glade Spring Terrace and Street 'A'/ Preakness Drive.
      - South of Street 'A'/ Preakness Drive.
4. Prior to recordation of the plat, the applicant should provide a letter from AT&T acknowledging that the portion of existing easement in the proposed Hoffman Road extension and along Kings Valley Road at the intersection of proposed Street 'A' and Street 'B' are subject to a subordination agreement.
5. **Sight Distance:**
- a. Street 'C' & Street 'A': The sight distance of 300-ft is approved per the 85<sup>th</sup> percentile speed of 38 mph recorded as part of the TIS. Attached the certified sight distance form with this letter.
  - b. The line of sight for the proposed driveways and roadways should not be blocked by any proposed obstructions such as trees, street light poles or traffic signs. **At the permit**



**stage**, the applicant should work with DPS to make the necessary modifications to the locations of the items mentioned above to meet the sight distance requirements for the proposed driveways and roadways.

6. **Storm Drain Analysis:**

- a. **Prior to the certification of the preliminary plan**, please update the storm drain report to include the distance to the closest public storm drain system for all study points from the edge of the property to which the site drains. If the distance to the public storm drain system is less than 500-ft the existing system should be analyzed per the Montgomery County Drainage Manual. If the distance is more than 500-ft then the study is approved as long as the SWM is approved by DPS. The applicant will be responsible for any improvement as required by DPS at the permit stage if the existing outfall is found to be inadequate per this condition.

**Standard Plan Review Comments**

1. All Planning Board Opinions relating to this plan or any subsequent revision, project plans or site plans should be submitted to the DPS in the package for record plats, storm drain, grading or paving plans, or application for access permit. Include this letter and all other correspondence from this department.
2. The proposed driveways shall meet MC 301.01.
3. The proposed driveways to the proposed houses shall comply with the following construction policy as listed in the link below:  
[https://www.montgomerycountymd.gov/DPS/Resources/Files/Land\\_Development/Driveway%20Construction%20Permit%20Policy%20Guidelines.pdf](https://www.montgomerycountymd.gov/DPS/Resources/Files/Land_Development/Driveway%20Construction%20Permit%20Policy%20Guidelines.pdf)
4. Ensure all driveways have a minimum of 20' in length between the garage door and the nearest edge of the sidewalk.
5. Design all access points and alleys to be at-grade with the sidewalk, dropping down to street level between the sidewalk and roadway. Driveway aprons should be provided for all alleys.
6. We recommend proposed parking within the public streets (if provided) should be 35 feet away from the intersections with proper traffic signs per Montgomery County Code 31-17.
7. Permanent structures such as steps, stoops, walls etc. are not allowed in the public ROW.
8. A 10-PUE is required along all street frontages as shown in the plans (except for Kings Valley Road, see Significant Preliminary Pan Comment #3b(iii) above).
9. Relocation of utilities along existing roads to accommodate the required roadway improvements shall be the responsibility of the applicant.

10. The owner will be required to submit a recorded covenant for the operation and maintenance of private streets, storm drain systems, and/or open space areas prior to DPS approval of the record plat. The deed reference for this document is to be provided on the record plat.
11. Trees in the County ROW – spacing and species to be in accordance with the applicable MCDOT standards. Tree planning within the public ROW must be coordinated with DPS ROW Plan Review Section.
12. Erosion and sediment control measures as required by Section 50-35(j) and on-site stormwater management where applicable shall be provided by the Developer (at no cost to the County) at such locations deemed necessary by MCDPS and will comply with their specifications. Erosion and sediment control measures are to be built prior to construction of streets, houses and/or site grading and are to remain in operation (including maintenance) as long as deemed necessary by MCDPS.
13. Enclosed storm drainage and/or engineered channel (in accordance with the MCDOT Storm Drain Design Criteria) within the County ROW and all drainage easements.
14. Posting of the ROW permit bond is a prerequisite to DPS approval of the record plat. The ROW permit will include, but not necessarily be limited to, the following improvements:
  - a. Street grading, paving, curbs and gutters, sidewalks and handicap ramps (if any), storm drainage and appurtenances, street lights and street trees along Street 'A'.
  - b. Street grading, paving, curbs and gutters, sidewalks and handicap ramps (if any), storm drainage and appurtenances, street lights and street trees along Street 'B'.
  - c. Street grading, paving, curbs and gutters, sidewalks and handicap ramps (if any), storm drainage and appurtenances, street lights and street trees along Street 'C'.
  - d. Street grading, paving, curbs and gutters, sidewalks and handicap ramps (if any), storm drainage and appurtenances, street lights and street trees along Hoffman Road Extension.
  - e. Shared use path and handicap ramps (if any), drainage ditch, storm drainage and appurtenances, street lights and street trees along Kings Valley Road.
  - f. Permanent monuments and property line markers, as required by Section 50-24(e) of the Subdivision Regulations.

#### **TIS Comments**

1. Figure 3 and Figure 7 show no additional traffic on Hoffman Drive from MD-27, which we believe is not realistic. Future residents of this site coming from I-270 and MD-27 will turn right to get to the site and will turn left from the site onto MD-27 to access I-270. We don't think vehicles will go around and access the site from Kings Valley. Please add vehicle movements to Hoffman Drive.

We defer to Maryland State Highway Administration (MDSHA) for any improvements to the intersection of MD-27 and Hoffman Drive.

2. The exhibits showing the site layout are not consistent and do not match the current layout with Hoffman Road extended. Please provide new layouts in the revised TIS.
3. There is inadequate width for parking on the new streets; therefore, "No Parking" signs will be posted along all public streets.
4. The applicant should provide a table with each off-site improvement and their costs with recommendations. A written justification shall be provided if the applicant is not installing the off-site improvements. Based on the information provided, M-NCPPC and MCDOT will approve or deny the off-site improvement requirements. If determined that none of the off-site improvements are feasible, the applicant will pay a fee-in-lieu equivalent to the proportionality cap, with the payment indexed to the Federal Highway Administration's National Highway Construction Cost Index from the mailing date of the Planning Board resolution to the date of application for the first above-grade building permit or ROW permit (whichever comes first).
5. Provide Street Lighting for the NW & SW corners of the following intersections:
  - a. Kings Valley Road & Preakness Drive
  - b. Kings Valley Road & Glade Valley Terrace

Thank you for the opportunity to review this preliminary plan. If you have any questions or comments regarding this letter, please contact Mr. Deepak Somarajan, our Development Review Engineer for this project at [deepak.somarajan@montgomerycountymd.gov](mailto:deepak.somarajan@montgomerycountymd.gov) or at (240) 777-2194.

Sincerely,

*Deepak Somarajan*

Deepak Somarajan, Engineer III  
Development Review Team  
Office to Transportation Policy

SharePoint\teams\DOT\Director's Office\Development Review\Deepak\Preliminary Plan\120230120-Tregoning Property\Letter\120230120-Tregoning Property-MCDOT Prelim-Design Exception-TIS ltr

Enclosures: Sight Distance Form

cc: Sharepoint Correspondence Folder FY'24

Mr. Jeffery Server  
Preliminary Plan No. 120230120  
October 24, 2023  
Page 7

cc-e:	Kate Kubit	Clarksburg Village Investments
	Robert Harris	Lerch, Early and Brewer
	Philip Hughes	CPJ Associates
	Tim Stemann	CPJ Associates
	Kwesi Woodroffe	MDSHA District 3
	Atiq Panjshiri	MCDPS RWPR
	Sam Farhadi	MCDPS RWPR
	Mark Terry	MCDOT DTEO
	Kamal Hamud	MCDOT DTEO
	Mark Etheridge	MCDPS WRS
	Sherryl Mitchell	MCDPS WRS
	Rebecca Torma	MCDOT OTP



**MONTGOMERY COUNTY, MARYLAND**  
 DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
 DEPARTMENT OF PERMITTING SERVICES

**SIGHT DISTANCE EVALUATION**

Facility/Subdivision Name: Tregoning Property Preliminary Plan Number: 1- 20230120

Street Name: Kings Valley Road Master Plan Road Classification: Country Road

Posted Speed Limit: 25 mph

Street/Driveway #1 ( Street C ) Street/Driveway #2 ( Street A )

Sight Distance (feet)	OK?
Right <u>300</u>	<input checked="" type="checkbox"/>
Left <u>300</u>	<input checked="" type="checkbox"/>

Sight Distance (feet)	OK?
Right <u>300</u>	<input checked="" type="checkbox"/>
Left <u>300</u>	<input checked="" type="checkbox"/>

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**GUIDELINES**

Classification or Posted Speed (use higher value)	Required Sight Distance in Each Direction*	Sight distance is measured from an eye height of 3.5' at a point on the centerline of the driveway (or side street) 6' back from the face of curb or edge of traveled way of the intersecting roadway where a point 2.75' above the road surface is visible. (See attached drawing)
Tertiary - 25 mph	150'	
Secondary - 30	200'	
Business - 30	200'	
Primary - 35	250'	
Arterial - 40	325'	
(45)	400'	
Major - 50	475'	
(55)	550'	

TIS 85th  
percentile  
speed =  
38 mph

295'  
(interpolated)

\*Source: AASHTO

**ENGINEER/ SURVEYOR CERTIFICATE**

I hereby certify that this information is accurate and was collected in accordance with these guidelines.

DocuSigned by:  
  
 B56F18AFE1E7484...

10/11/2023

Signature Haitham Hijazi

Date

19199

PLS/P.E. MD Reg. No.

**Montgomery County Review:**

Approved

Disapproved:

By: Deepak Somarajan

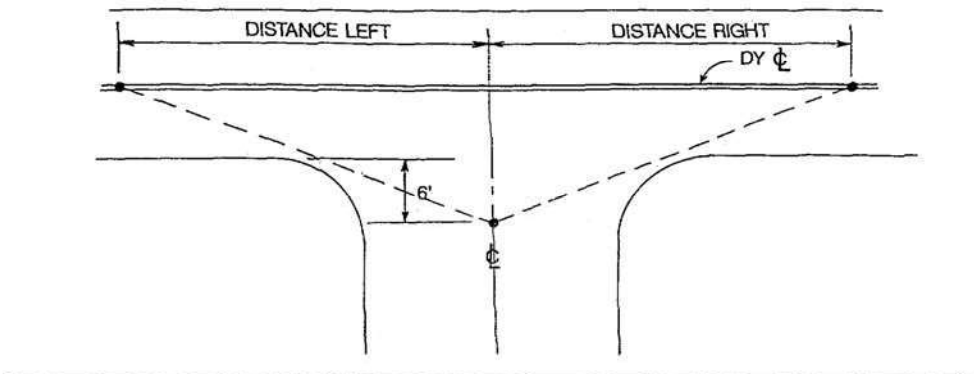
Date: 10/18/2023



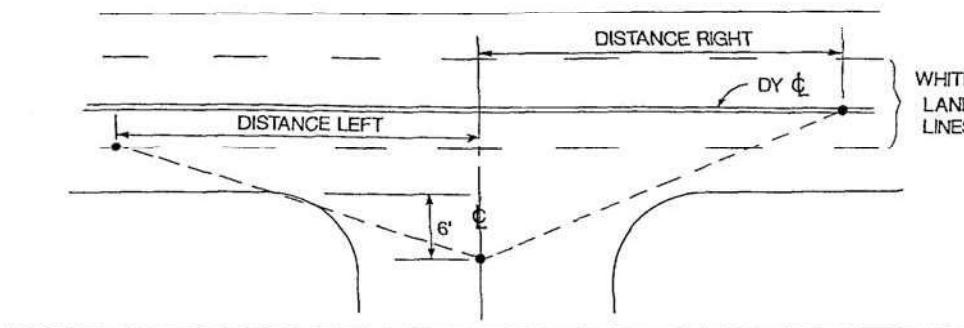
**MONTGOMERY COUNTY, MARYLAND**  
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION  
DEPARTMENT OF PERMITTING SERVICES

**SIGHT DISTANCE EVALUATION ATTACHMENT**

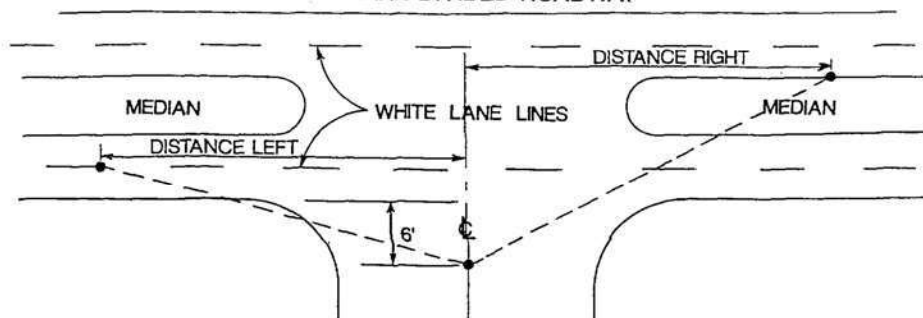
2 LANE UNDIVIDED ROADWAY



MULTI-LANE UNDIVIDED ROADWAY



MULTI-LANE DIVIDED ROADWAY











## DEPARTMENT OF PERMITTING SERVICES

Marc Elrich  
County Executive

Rabbiah Sabbakhan  
Director

October 30, 2023

Mr. Amir Arabi  
Charles P. Johnson & Associates, Inc.  
1751 Elton Road, Suite 300  
Silver Spring, MD 20903

Re: **COMBINED STORMWATER MANAGEMENT  
CONCEPT/SITE DEVELOPMENT  
STORMWATER MANAGEMENT PLAN** for  
Tregoning Property  
Preliminary Plan #: 120230120  
SM File #: 288354  
Tract Size: LSC 653,902 sf/15.01 Ac  
GSC 90,543 sf/2.08 Ac.  
Zone: RE-1  
Total Concept Area: LSC 499,580 sf/11.47 Ac.  
GSC 116,458 sf/2.67 Ac.  
Lots/Block: Lots 1-44  
Parcel(s): P104  
Watershed: Little Seneca Creek/IV, Great  
Seneca Creek/III  
Redevelopment (Yes/No): No

Dear Mr. Arabi:

Based on a review by the Department of Permitting Services Review Staff, the stormwater management concept for the above-mentioned site is **acceptable**. The plan proposes to meet required stormwater management goals via the use of micro-bioretenion and a bio-swale.

The following items will need to be addressed during the detailed sediment control/stormwater management plan stage:

1. A detailed review of the stormwater management computations will occur at the time of detailed plan review.
2. An engineered sediment control plan must be submitted for this project.
3. All filtration media for manufactured best management practices, whether for new development or redevelopment, must consist of MDE approved material.
4. At the final design stage, required and provided ESD to the MEP in the public right-of-way, including the Kings Valley Road 8-foot path, must be calculated separately from the private lots. ESD provided in the right-of-way must meet or exceed the target and cannot be compensated for on the lots. The use of a bio-swale in the public right-of-way will be fully evaluated at the final design stage.



2425 Reedie Drive, 7th Floor, Wheaton, Maryland 20902 | 240-777-0311  
[www.montgomerycountymd.gov/permittingservices](http://www.montgomerycountymd.gov/permittingservices)

Mr. Amir Arabi  
October 30, 2023  
Page 2 of 2

5. At the final design stage, investigate moving micro-bioretenment #1, located north of Hoffman Drive, to the open space parcel south of Hoffman Drive.
6. The micro-bioretenment devices located along Kings Valley Road must be accessible from Kings Valley Road.

This list may not be all-inclusive and may change based on available information at the time.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 **is not required**.

This letter must appear on the sediment control/stormwater management plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Sherry Mitchell at 240-777-5206 or [sherryl.mitchell@montgomerycountymd.gov](mailto:sherryl.mitchell@montgomerycountymd.gov).

Sincerely,

*Mark Etheridge*

Mark Etheridge, Manager  
Water Resources Section  
Division of Land Development Services

cc: Neil Braunstein  
SM File # 288354

**LSC**

ESD: Required/Provided 27,310 cf / 27,618 cf  
PE: Target/Achieved: 1.60"/1.62"  
STRUCTURAL: N/A cf  
WAIVED: N/A cf.

**GSC**

ESD: Required/Provided 3,261 cf / 3,326 cf  
PE: Target/Achieved: 1.20"/1.22"  
STRUCTURAL: N/A cf  
WAIVED: N/A cf.



## DEPARTMENT OF HOUSING AND COMMUNITY AFFAIRS

Marc Elrich  
*County Executive*

Scott Bruton  
*Director*

October 2, 2023

Mr. Jeffrey M. Server  
Montgomery County Planning Department  
2425 Reedie Drive, 13th Floor  
Wheaton, MD 20902

Re: Tregoning Property  
Preliminary Plan # 120230120

Dear Mr. Server:

The Montgomery County Department of Housing and Community Affairs (DHCA) has reviewed the above referenced plan and recommends Approval for up to forty-six (46) units including up to six (6) (12.5%) MPDUs in Clarksburg, Maryland.

An Agreement to Build must be submitted to, reviewed, and executed by DHCA before building permits are obtained from the Department of Permitting Services (DPS). The final MPDU layouts will need to be approved by DHCA at the MPDU Agreement to Build stage.

Sincerely,

Adrian Hopson, Planning Specialist III  
Affordable Housing Programs Section

*Affordable Housing*

**Division of Housing**  
*Landlord Tenant Affairs*

*Multifamily Housing*

---

1401 Rockville Pike, 4th Floor • Rockville, Maryland 20852 • 240-777-0311 • 240-777-3691 FAX • [www.montgomerycountymd.gov/dhca](http://www.montgomerycountymd.gov/dhca)



Wes Moore  
Governor  
Aruna Miller  
Lieutenant Governor  
Paul J. Wiedefeld  
Secretary  
William Pines, P.E.  
Administrator

September 26, 2023

Mr. Wes Guckert, PTP  
The Traffic Group, Inc.  
9900 Franklin Square Drive, Suite H  
Baltimore, Maryland 21236

Dear Mr. Guckert,

Thank you for the opportunity to review the **First (1<sup>st</sup>) TIA Submittal (dated May 5, 2023)** prepared by **The Traffic Group, Inc.** and submitted for the proposed **Tregoning Property development (SHA Project No. 23APMO017XX) located on MD 27 (Ridge Road) at Mile point 3.66** in Montgomery County, Maryland.

The Maryland State Highway Administration (SHA) has reviewed the TIA and are pleased to respond.

- The site is proposed to be developed with 38 single family homes and 6 townhomes.
- Access is proposed from two entrances to Kings Valley Road and a connection to Hoffman Drive.

Based on the information provided, please address the following comments in a point-by-point response:

**Regional and Intermodal Planning Division (RIPD) Comments (Provided by Darren Bean):**

Neither the Montgomery County CTP 2023-2028 and HNI have any projects impacting the proposed development. RIPD has no comments.

**District 3's Engineering Systems Team (EST) Comments (Provided by Dorey Uong):**

EST has reviewed #23-AP-MO-017-xx (Tregoning Property) TIS Review and offer the following comments:

1. There are no active or proposed projects within the proposed study limits.
2. The results of the analysis indicate that development will drastically increase pedestrian and vehicular traffic columns. Considering the proposed designed changes will assist in the flow and safety of both pedestrians and motorist. We defer to District Traffic to ensure the changes meet the LOS, lane use and traffic operation.
3. Utility coordination and relocation will be required for overhead utilities.

If you have any questions regarding the above comments, please do not hesitate to contact Dionna Tunstall at: [DTunstall@mdot.maryland.gov](mailto:DTunstall@mdot.maryland.gov)

**Travel Forecasting & Analysis Division (TFAD) Comments (Provided by Scott Holcomb):**

1. Page 6 of the report notes that the posted speed for MD 27 is 40 mph, however it should be noted that there is a school speed zone and curve warning signs with lower speeds in this vicinity. This information should be added if resubmitting the report.
2. The trip generation formulas/rates and directional distributions used in Tables 1 for the background sites appear to be slightly different from the ITE trip generation manual. This will not significantly impact results and should only be checked and revised if resubmitting the report.

**Traffic Development & Support Division (TDSD) Comments (Provided by Obianuju Ani):**

We have completed our review of the subject project. We have no comments at this time.

**District 3 Traffic Comments (Provided by Alvin Powell):**

We have completed a review of the traffic impact study for the Tregoning Property project in Montgomery County. All capacity and queuing concerns have been adequately addressed. We offer no further comments at this time.

If you have any questions, please contact Alvin Powell at [apowell@primeeng.com](mailto:apowell@primeeng.com)

The SHA concurs with the report findings for this project as currently proposed and will not require the submission of any additional traffic analyses. However, an access permit will be required for all construction within the SHA right of way. Please submit electronically (via our online system <https://mdotsha.force.com/accesspermit>) the proposed improvement plans (including a set of hydraulic plans and computations) and all supporting documentation to the Access Management Division. Please reference the SHA tracking number on any future submissions. Please keep in mind that you can view the reviewer and project status via SHA Access Management Division web page at <https://www.roads.maryland.gov/mdotsha/pages/amd.aspx>.

Please note, if this project has not obtained an SHA access permit and begun construction of the required improvements within five (5) years of this approval, extension of the permit shall be subject to the submission of an updated traffic impact analysis in order for SHA to determine whether the proposed improvements remain valid or if additional improvements will be required of the development.

Wes Guckert, PTP  
SHA Tracking No.: 23APMO017XX  
Page 3 of 3  
September 26, 2023

If you have any questions, or require additional information, please contact Mr. Kwesi Woodroffe at 301-513-7347, by using our toll free number (in Maryland only) at 1-800-749-0737 (x7347), or via email at [kwoodroffe@mdot.maryland.gov](mailto:kwoodroffe@mdot.maryland.gov) or [shaamdpermits@mdot.maryland.gov](mailto:shaamdpermits@mdot.maryland.gov).

Sincerely,



9/26/2023

for Derek Gunn, P.E.  
District Engineer, SHA, District 3

DG/eui

cc: Obianuju Ani, SHA – TDS  
Peter Campanides, SHA – District 3 Traffic  
Rola Daher, SHA – TFAD  
Robert Owolabi, SHA – District 3 Traffic  
Darren Bean, SHA – RIPD  
Thomasina Saxon, SHA - RIPD  
Obianuju Ani, SHA – TDS  
William Stroud, SHA – TDS  
Scott Holcomb, SHA – TFAD  
Dorey Uong, SHA – EST  
Kwesi Woodroffe, SHA – District 3 Regional Engineer.  
Urooj Zafari, SHA – EST

**Server, Jeffrey**

---

**From:** Mary Gene Martin <mgkm\_39@aol.com>  
**Sent:** Friday, June 30, 2023 1:23 PM  
**To:** Server, Jeffrey  
**Cc:** Mary Gene Martin  
**Subject:** Tregoning Property in Damascus

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**[EXTERNAL EMAIL]** Exercise caution when opening attachments, clicking links, or responding.

Hello Jeff,

Our Sweepstakes HOA (SHOA) community just received a postcard informing us of a public meeting by Elm Street Development regarding the Tregoning Property on Kings Valley Road on which will be held on July 11, 2023. We also have observed that the proposed development and conservation plans are on the Planning Board's docket possibly on July 18, 2023. I am writing you to inquire what, if any, actions the County has taken regarding this proposal, and what, if any, additional information has been communicated to the Planning Board since the last public hearing.

Also, we would like to invite you to come talk with the community to discuss the proceedings.

As we are the community that is most affected by this proposed development, we wish to keep abreast of the developments.

Thank you in advance for your assistance in this matter.

V/R,

Mary Gene Martin  
Vice-President, SHOA  
301-518-8499

## Server, Jeffrey

---

**From:** David Obenland <dobenland@gmail.com>  
**Sent:** Friday, September 29, 2023 11:39 AM  
**To:** Server, Jeffrey  
**Cc:** gpierceski@verizon.net  
**Subject:** Fwd: Elm Street Development

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**[EXTERNAL EMAIL]** Exercise caution when opening attachments, clicking links, or responding.

Mr. Server,

A resident of the Sweepstakes Community sent me this email asking me to forward it to the county for inclusion in the record concerning the proposed development of the Tregoning Property

Plan Number 120230120

Thank you

----- Forwarded message -----

**From:** [gpierceski@verizon.net](mailto:gpierceski@verizon.net) <[gpierceski@verizon.net](mailto:gpierceski@verizon.net)>

**Date:** Sat, Jul 29, 2023 at 4:50 PM

**Subject:** Elm Street Development

**To:** [dobenland@gmail.com](mailto:dobenland@gmail.com) <[dobenland@gmail.com](mailto:dobenland@gmail.com)>

**Cc:** Bjssparks <[bjssparks@verizon.net](mailto:bjssparks@verizon.net)>, Mary Gene Martin <[mgkm\\_39@aol.com](mailto:mgkm_39@aol.com)>, Al Eisel <[faddle5444@aim.com](mailto:faddle5444@aim.com)>

Hi Dave,

My wife and I have been analyzing the Tregoning Property Development project this week. I have some important information to share with you. Note that I have a B.S. in Industrial Engineering as well as a M.S. in Industrial Administration, and worked as a draftsman while in college. My wife, Jean, has a BFA (Bachelor of Fine Arts) degree in Interior Design from Syracuse University, graduating top of her Interior Design class, and has worked for a number of Architects both as an Interior Designer and as an Architectural Draftsman.

This week I measured the width of Preakness Drive in front of my house and found out the width of the proposed roads for the Tregoning Property project from the drawing mentioned below. Using my 100 foot measuring tape, I found out that the width of Preakness Drive in front of my house is 24' 4". Looking at the Tregoning Property Composite Preliminary Plan 120230120 dated May 2022, the new road widths, as printed on the drawing are only 20' versus the 24'3" road width on Preakness Dr. Note that the proposed extension of Hoffman Rd. is also 20' wide. Also note that the original Pre-Preliminary drawing for the Tregoning Property did not provide dimensions of road widths, etc. so this issue was not visible when we received the earlier drawings. Also the copy of the drawing we originally received had been extremely reduced from the drawing's original size, preventing accurate dimensions from being obtained. It is interesting to note that 5 foot wide sidewalks are being



provided on both sides of Streets A, B, and C, compared with 3' sidewalks that have been used in the past in some locations. I would like to find out if Montgomery County now requires 5 foot wide sidewalks. Note that sidewalks are not provided on the extension of Hoffman Drive nor on a non named alley nor on a non named road that is found east of the Hoffman Road Extension starting at the intersection of Street C. These sidewalk practices do not appear to be consistent. Note that the five foot sidewalks use up 10 feet of width for these three roads. We need to have Montgomery County provide us the rules Montgomery County has for road and sidewalk widths in new developments, so we can compare these allowed widths to what is being proposed for this new development. If sidewalks were reduced to 3', 4 additional feet could be used for these roads making them safer and hopefully allowing for parking on the roads in this proposed development. Note that the extension of Hoffman Rd. is also 20' wide.

I was struck by a comment that Kate Kubik made at our last "Informative" meeting about parking in the . As you recall, She told us that parking will not be allowed on the streets in this new development. I don't recall her stating the reason for no parking on the streets. I wonder if Montgomery County is preventing parking on the roads of this proposed development because of the narrow width planned for the proposed roads? This issue, to me, is a show stopper. If homeowners or visitors to homeowners in this new development are not allowed to park cars on the streets of this new development, they will surely park on Preakness Drive, especially on the first block at the northern end of Preakness DR. Neighbors on Preakness Drive do not want cars from this new development parking in front of their homes. This is a very upsetting issue for HOA members and residents in the first block of Preakness Dr. This issue needs to be discussed with Jeffrey Server by the highest level officer of our HOA to use the power of our HOA. If you would like, I could take part in a call to Jeffrey Server.

Since the homes in our HOA and the homes of Hoffman Drive are both impacted by the Tregoning Property Development project, I feel that our two neighborhoods should be working together for our common objectives. To that end I would like to talk to our neighbors on Hoffman Drive. A lady from Hoffman Drive has walked up to me after the second and third meetings. I discussed the plight with her that I thought home owners on Hoffman Drive face. She agreed with every point I made. Unfortunately, we did not exchange names, telephone numbers, nor email addresses. I would like to find this lady and continue our discussion of issues involving the Tregoning Property project. My neighbor, Bonnie Sparks, is an expert using the internet. I asked her if she could obtain a copy of the lists of people that have attended the three meetings called by Tregoning Property Development project. She told me she had seen these lists on the internet. Unfortunately when she went to access these documents on the internet, they were gone. Have you or any of your board members captured any of these documents. If so I would appreciate receiving a copy of these asap, so I can try to find the lady mentioned above.

I hope you find the information I have provided helpful. I look forward to receiving an email from you as soon as possible, hopefully providing me with a list of people attending the last two meetings. I also look forward to hearing about a meeting between Jeffrey Server and HOA officers, as mentioned above.

Your neighbor and HOA member,

George Pierce

--

Obenland Family

(David, Jeanne, Amanda, Jonathan)

## Server, Jeffrey

---

**From:** David Obenland <dobenland@gmail.com>  
**Sent:** Tuesday, October 31, 2023 6:12 PM  
**To:** Server, Jeffrey  
**Subject:** Tregoning Development Plan (120230120)  
**Attachments:** Tregoning Planning Board Letter - Final -bkp.docx

**[EXTERNAL EMAIL]** Exercise caution when opening attachments, clicking links, or responding.

Mr. Server

I would like to enter the attached document into the record regarding the Tregoning Property Development Plan. The document contains information about the development plan after reviewing both the preliminary meeting recording (one issue was not officially voted on and inconsistencies) and documentation submitted for the current review phase.

Once this document is entered into the record, do members of the Planning Board read them or do they get a summary of the content? I'm not sure how the process works.

Thank you for your time.

--

David Obenland  
24000 Jockey Club Terrace  
Damascus MD 20872

# Development Density

The current plan is for 44 homes on approximately 17.8 acre lots. Based on what Elm Street states, the lot size will be 9,000 square feet, which they say is comparable to the lots in Sweepstakes HOA. This is not true. In fact, the average lot size in the Sweepstakes Community is 12,657.85 Square Feet. This figure is supported by the data contained in [Appendix A](#). Reference to this statement can be found at approximately the 6:48 (H:MM) minute mark of February 23, 2023 meeting recording.

## Bike Path

During the Pre-Preliminary meeting, the Interim Planning discussed this and other issues. At the conclusion of the discussion, **the board never actually vote voted on this issue**. They stated that they agreed with the discussion but never went through the official process of voting on the issue. Reference for this can be found at approximately the 6:52 (H:MM) minute mark of the February 23, 2023 meeting recording.

I would also like to point out some inconsistencies in the Statement of Justification document ([https://eplans.montgomeryplanning.org/UFS/34165/109263/01-SOJ-120230120.pdf/01-SOJ-120230120.pdf\\_V2/01-SOJ-120230120.pdf](https://eplans.montgomeryplanning.org/UFS/34165/109263/01-SOJ-120230120.pdf/01-SOJ-120230120.pdf_V2/01-SOJ-120230120.pdf)).

- On page 3, under Board Review Items, the bike proposed foot path is listed as 1500 linear feet. Whereas on page 6 under the 2. Pre-Preliminary Plan: Connection to Damascus Park section, the foot path is listed as 1300 feet long.
- The applicant states the following. "There are no bicycle or pedestrian facilities elsewhere along Kings Valley Road." **This is not true**. There is an existing path along Kings Valley Road from Damascus Regional Park to the housing development bordered by Founders Way.

Further Justification to revisit this topic:

- The Planning Board Staff recommended a from the development to one of the entrances to the park after consulting with the Parks Department. As noted in the presentation, the terminus of this path would eventually connect to future pathway to Ovid Hazen Wells Park in Clarksburg when it's built. An attorney for Elm Street stated during the meeting that due to various regulations and codes, the developer was not required to build a path to create a safe walking/biking throughfare to the park. The attorney stated that building the path would cost up to \$46,000 per unit. Since the new development is slated for 44 units, the total cost of the requesting path would be \$2,024,000. The attorney also stated that all they would have to do is to "write a check" for \$1,000,000. Doing this shifts burden and any shortfall to the county. The \$46,000 figure that was presented was news to everyone in the meeting and no one on the Board asked how that number was determined. The Planning Board Staff was asked to provide justification of their recommendation along with testimony from a representative of the Parks Department stating how they came up with recommendation. The Parks Department representative indicated that they looked at other alternatives and were unable to find a better one than the one requested by the Planning Staff.
- Based Montgomery County's desire to make neighborhoods safer for pedestrians, it makes no sense not to include a way for residents of the new community to get to the park. There also

seems to be a desire develop the other portion of the property, located next to the proposed development, which the applicant states will be farmed for now. This is evidenced in a memorandum from the Montgomery County Executive dated August 27, 2018, ([https://www.montgomerycountymd.gov/DEP/Resources/Files/downloads/ws/CR\\_18-1272-transmittal.pdf](https://www.montgomerycountymd.gov/DEP/Resources/Files/downloads/ws/CR_18-1272-transmittal.pdf)).

Is this consistent with current effort of the county to become safer for bikers and pedestrians?

The Interim Board went against the recommendation of their staff and the Parks Department. In the future, how is this development going to be connected to the proposed pathway as stated in Clarksburg Master Plan? Without any right-of-way along Kings Valley, there is no place to put a walkway without getting some land from the current farm.

Numerous developments currently under construction in the Damascus area includes sidewalks that appear to go nowhere.

## Traffic Study

The Traffic study was done over a year ago and might not contain valid information since it was performed while some Covid restrictions/policies were still in place.

Reviewing the document, the Traffic Study was performed on or about May 15, 2022 and failed to account for situations causing additional traffic on Kings Valley as a result of activities held at Damascus Regional Park. Activities include private and Baseball events during the summer months and on weekends. The Traffic Study should include information gathered for summer weekends to fully understand the impact of the events. Recently, the Parks Department notified communities that they are plans to improve the park thus potentially adding traffic that the original Traffic Study didn't account for. Current plans call for lighting two of the four fields and in the future lighting two of the Soccer field located in the back of the park. [Damascus Recreational Park Athletic Field Lighting - Montgomery Parks](#)

The Traffic study doesn't account for the Day Care facility located on the corner of Preakness and Santa Antia.

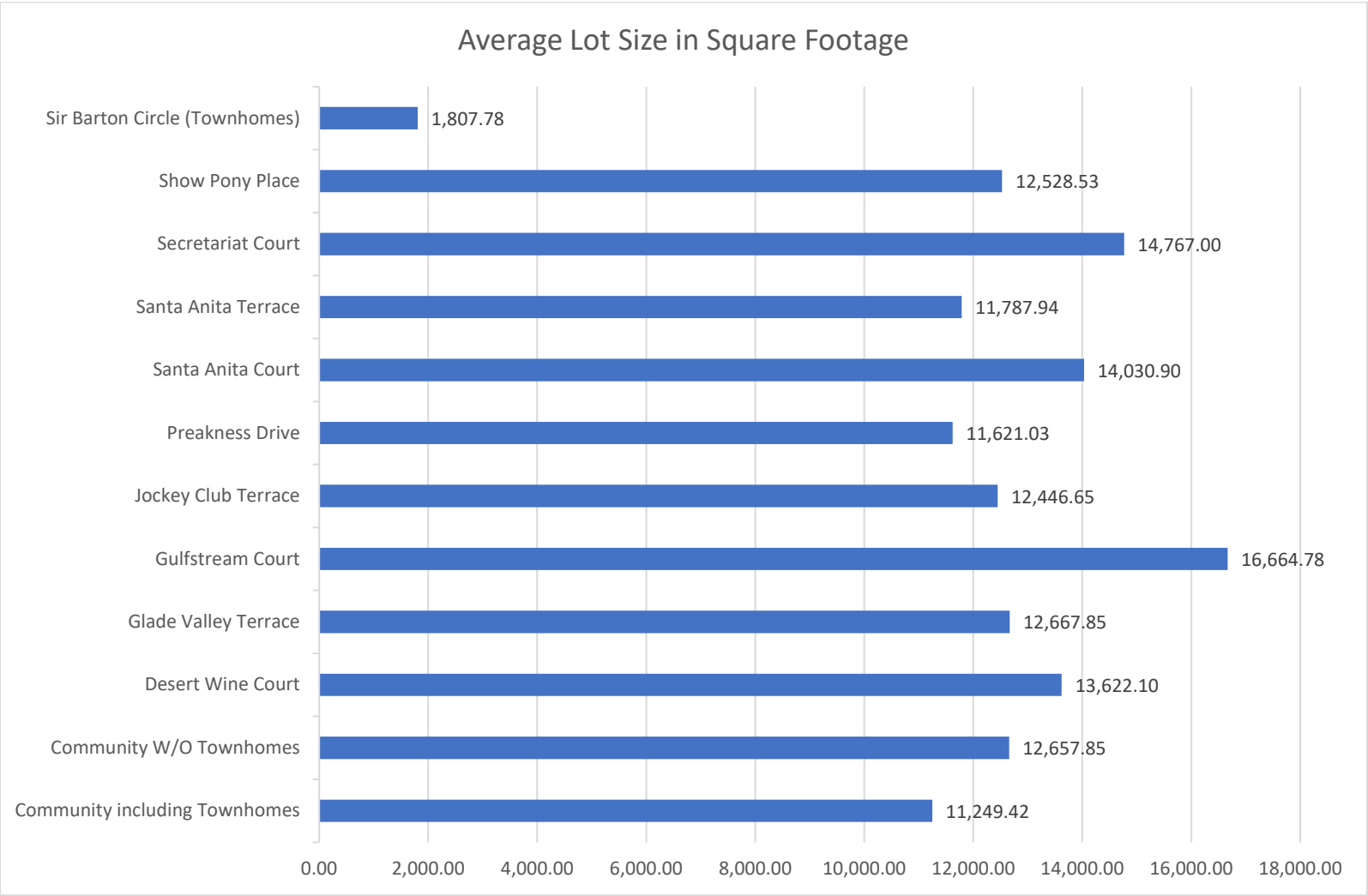
As noted in the Study, all areas around the proposed development are considered "Uncomfortable" due to the lack of sidewalks. Additionally, the note about "Kings Valley Road" related to the "Uncomfortable" rating (page 22 of the Traffic Study) indicates that some of the area is actively farmed. Although that is true at this time, there are plans in the future to develop the farmed area of the parcel. As referenced in a memorandum from the Montgomery County Executive dated August 27, 2018, ([https://www.montgomerycountymd.gov/DEP/Resources/Files/downloads/ws/CR\\_18-1272-transmittal.pdf](https://www.montgomerycountymd.gov/DEP/Resources/Files/downloads/ws/CR_18-1272-transmittal.pdf)) there are plans to develop the remaining land along Kings Valley. This should be also be considered when reviewing this plan.



CR\_18-1272-transmi  
ttal.pdf

# Appendix A

## Average Lot Size in Sweepstakes Community



## Data Detail

Street Number	Street Name	Lot Size In SF
24000	Desert Wine Court	13,302
24001	Desert Wine Court	14,203
24004	Desert Wine Court	14,919
24005	Desert Wine Court	14,943
24008	Desert Wine Court	13,061
24009	Desert Wine Court	11,702
24013	Desert Wine Court	15,030
24016	Desert Wine Court	15,575
24017	Desert Wine Court	11,012
24021	Desert Wine Court	12,474
24001	Glade Valley Terrace	15,832
24004	Glade Valley Terrace	9,223
24005	Glade Valley Terrace	13,369
24008	Glade Valley Terrace	9,474
24009	Glade Valley Terrace	16,700
24012	Glade Valley Terrace	10,523
24013	Glade Valley Terrace	15,030
24016	Glade Valley Terrace	9,406
24017	Glade Valley Terrace	20,762
24020	Glade Valley Terrace	9,200
24021	Glade Valley Terrace	16,252
24024	Glade Valley Terrace	8,855
24025	Glade Valley Terrace	15,296
24028	Glade Valley Terrace	9,200
24029	Glade Valley Terrace	13,597
24032	Glade Valley Terrace	8,970
24033	Glade Valley Terrace	13,767
24036	Glade Valley Terrace	9,551
24037	Glade Valley Terrace	13,767
24041	Glade Valley Terrace	14,583
10800	Gulfstream Court	10,855
10801	Gulfstream Court	15,697
10804	Gulfstream Court	13,011
10805	Gulfstream Court	10,709
10808	Gulfstream Court	15,192
10809	Gulfstream Court	13,514
10812	Gulfstream Court	21,211
10813	Gulfstream Court	20,111
10816	Gulfstream Court	29,683
23901	Jockey Club Terrace	18,597
23904	Jockey Club Terrace	15,202
23905	Jockey Club Terrace	15,517

23908	Jockey Club Terrace	11,289
23909	Jockey Club Terrace	12,708
23912	Jockey Club Terrace	11,436
23913	Jockey Club Terrace	11,967
23916	Jockey Club Terrace	10,031
23917	Jockey Club Terrace	13,804
23920	Jockey Club Terrace	8,898
23921	Jockey Club Terrace	13,418
23924	Jockey Club Terrace	10,777
23925	Jockey Club Terrace	12,185
23928	Jockey Club Terrace	16,346
23929	Jockey Club Terrace	13,773
23932	Jockey Club Terrace	12,339
24000	Jockey Club Terrace	12,275
24004	Jockey Club Terrace	12,037
24005	Jockey Club Terrace	10,257
24008	Jockey Club Terrace	9,771
24009	Jockey Club Terrace	12,395
24012	Jockey Club Terrace	10,462
24013	Jockey Club Terrace	10,789
24000	Preakness Drive	12,743
24001	Preakness Drive	16,021
24004	Preakness Drive	10,838
24005	Preakness Drive	10,140
24008	Preakness Drive	12,819
24009	Preakness Drive	10,031
24013	Preakness Drive	12,015
24016	Preakness Drive	11,873
24017	Preakness Drive	13,117
24020	Preakness Drive	11,042
24021	Preakness Drive	12,657
24024	Preakness Drive	9,375
24025	Preakness Drive	14,275
24028	Preakness Drive	10,625
24029	Preakness Drive	12,665
24032	Preakness Drive	10,000
24036	Preakness Drive	10,000
24039	Preakness Drive	11,716
24040	Preakness Drive	10,125
24044	Preakness Drive	10,072
24101	Preakness Drive	11,634
24104	Preakness Drive	10,421
24105	Preakness Drive	13,404
24108	Preakness Drive	10,167
24109	Preakness Drive	10,657
24112	Preakness Drive	12,735



24113	Preakness Drive	11,700
24117	Preakness Drive	11,700
24121	Preakness Drive	11,700
24125	Preakness Drive	11,700
24129	Preakness Drive	11,586
24133	Preakness Drive	11,784
24137	Preakness Drive	11,755
24141	Preakness Drive	11,755
24145	Preakness Drive	11,755
24149	Preakness Drive	11,755
24000	Santa Anita Court	20,038
24001	Santa Anita Court	20,835
24004	Santa Anita Court	14,643
24008	Santa Anita Court	13,503
24009	Santa Anita Court	11,265
24015	Santa Anita Court	10,882
24016	Santa Anita Court	13,712
24017	Santa Anita Court	13,289
24021	Santa Anita Court	13,038
24025	Santa Anita Court	9,104
10605	Santa Anita Terrace	10,322
10608	Santa Anita Terrace	12,602
10609	Santa Anita Terrace	11,127
10613	Santa Anita Terrace	10,830
10616	Santa Anita Terrace	13,042
10617	Santa Anita Terrace	10,844
10620	Santa Anita Terrace	15,760
10621	Santa Anita Terrace	11,239
10700	Santa Anita Terrace	10,303
10701	Santa Anita Terrace	11,310
10704	Santa Anita Terrace	9,737
10705	Santa Anita Terrace	12,793
10708	Santa Anita Terrace	10,858
10709	Santa Anita Terrace	12,846
10712	Santa Anita Terrace	9,902
10713	Santa Anita Terrace	13,500
10716	Santa Anita Terrace	10,077
10720	Santa Anita Terrace	14,649
10721	Santa Anita Terrace	13,269
10724	Santa Anita Terrace	13,475
10725	Santa Anita Terrace	10,374
10728	Santa Anita Terrace	15,291
10732	Santa Anita Terrace	15,965
10800	Santa Anita Terrace	10,476
10804	Santa Anita Terrace	10,351
10805	Santa Anita Terrace	12,180

10808	Santa Anita Terrace	11,128
10809	Santa Anita Terrace	12,212
10812	Santa Anita Terrace	10,429
10813	Santa Anita Terrace	11,082
10816	Santa Anita Terrace	10,593
10817	Santa Anita Terrace	10,363
10820	Santa Anita Terrace	11,518
10821	Santa Anita Terrace	10,140
10825	Santa Anita Terrace	11,991
24101	Secreteriat Court	10,738
24105	Secreteriat Court	11,700
24112	Secreteriat Court	21,945
24113	Secreteriat Court	12,030
24116	Secreteriat Court	16,307
24117	Secreteriat Court	12,933
24120	Secreteriat Court	19,666
24123	Secreteriat Court	12,817
10701	Show Pony Place	11,156
10704	Show Pony Place	10,478
10705	Show Pony Place	9,618
10708	Show Pony Place	13,305
10709	Show Pony Place	10,769
10713	Show Pony Place	14,144
10800	Show Pony Place	12,798
10804	Show Pony Place	12,624
10805	Show Pony Place	10,628
10808	Show Pony Place	13,292
10809	Show Pony Place	11,177
10813	Show Pony Place	10,950
10816	Show Pony Place	12,710
10820	Show Pony Place	11,260
10821	Show Pony Place	11,224
10824	Show Pony Place	11,964
10825	Show Pony Place	15,117
10828	Show Pony Place	12,395
10829	Show Pony Place	10,702
10904	Show Pony Place	12,729
10905	Show Pony Place	11,754
10908	Show Pony Place	16,337
10909	Show Pony Place	13,845
10912	Show Pony Place	15,651
10913	Show Pony Place	13,354
10916	Show Pony Place	13,576
10917	Show Pony Place	15,933
10920	Show Pony Place	10,400
10921	Show Pony Place	13,839

10925	Show Pony Place	12,127
10800	Sir Barton Circle	2,080
10801	Sir Barton Circle	2,080
10802	Sir Barton Circle	1,600
10803	Sir Barton Circle	1,600
10804	Sir Barton Circle	1,700
10805	Sir Barton Circle	1,500
10806	Sir Barton Circle	1,700
10807	Sir Barton Circle	1,500
10808	Sir Barton Circle	1,700
10809	Sir Barton Circle	2,030
10810	Sir Barton Circle	2,080
10813	Sir Barton Circle	1,900
10815	Sir Barton Circle	1,500
10817	Sir Barton Circle	1,500
10819	Sir Barton Circle	2,080
10823	Sir Barton Circle	2,340
10825	Sir Barton Circle	1,800
10827	Sir Barton Circle	1,800
10829	Sir Barton Circle	1,800
10830	Sir Barton Circle	1,900
10831	Sir Barton Circle	2,340
10832	Sir Barton Circle	1,600
10834	Sir Barton Circle	1,700
10836	Sir Barton Circle	1,700
10838	Sir Barton Circle	1,600
10840	Sir Barton Circle	1,600
10844	Sir Barton Circle	2,080

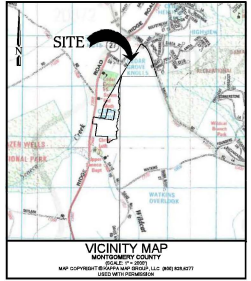
# TREGONING PROPERTY

## PRELIMINARY FOREST CONSERVATION PLAN

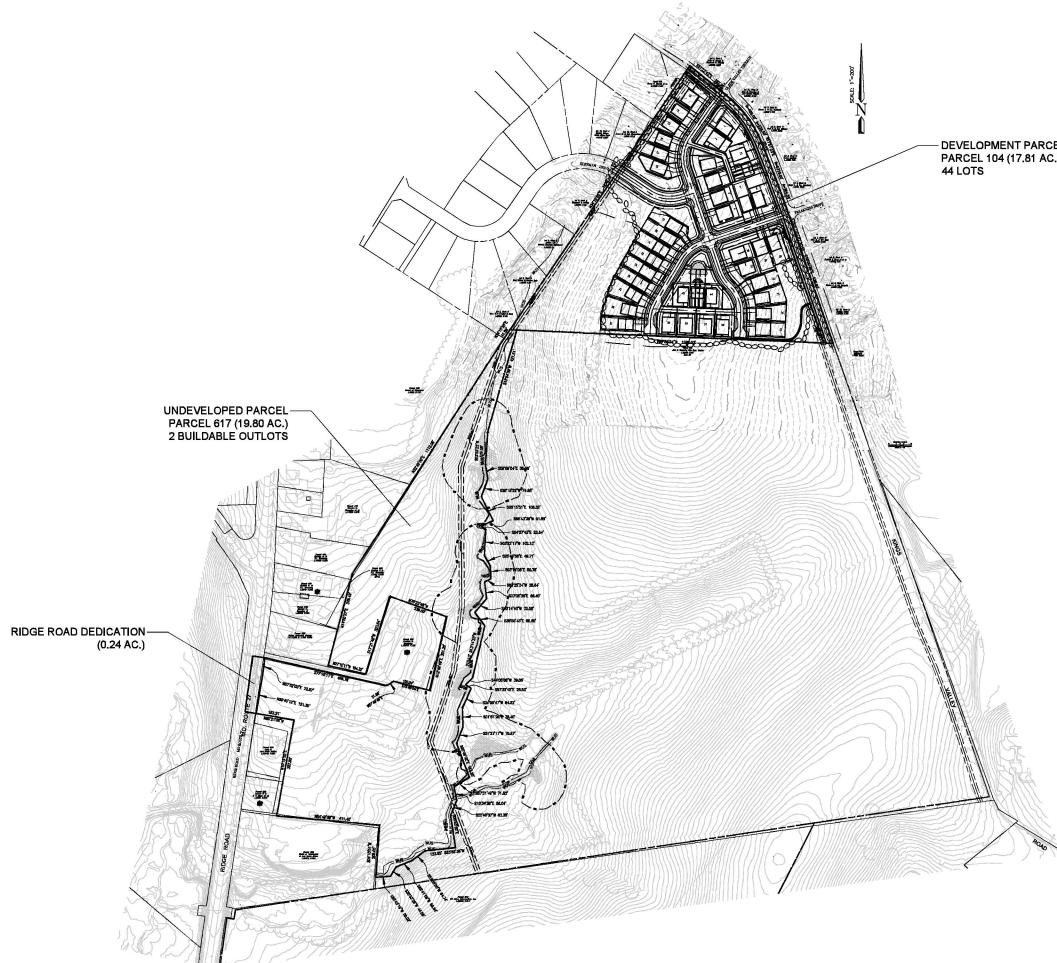
### F20230420

GENERAL NOTES

1. SITE IS LOCATED ON PARCEL 104 (17.81 ACRES, TAX ID 38859025).
2. TOTAL SUBJECT AREA INCLUDES PARCEL 617 (19.80 ACRES, TAX ID 03859014) AND THE RIDGE ROAD DEDICATION (0.24 ACRES, BRG PLAT NO. 12211).
3. TOTAL SUBJECT AREA COVERS 37.85 ACRES.
4. TWO FUTURE DWELLING UNITS TO BE DEVELOPED FOR COMMERCIAL OR RESIDENTIAL USE ON TWO OUTLOTS ON PARCEL 617.
5. SITE IS LOCATED IN ELECTION DISTRICT 12.
6. SITE IS LOCATED ON W8C 200 SHEET 233NW11.
7. SITE IS WITHIN THE SENECA CREEK WATERSHED (MD 8-DIGIT WATERSHED 02140208, HUC 02070008).
8. VISSC SERVICE CATEGORIES: S-8, W-5, R170WC03A.
9. SITE IS TO BE SERVED BY PUBLIC WATER AND SEWER.
10. ON-SITE STREAMS ARE MARYLAND USE CLASS IV-P: RECREATIONAL TROUT WATERS AND PUBLIC WATER SUPPLY. BUFFERS WERE EXPANDED PER GUIDELINES FOR ENVIRONMENTAL MANAGEMENT OF DEVELOPMENT IN MONTGOMERY COUNTY.
11. THE SITE IS NOT WITHIN A SPECIAL PROTECTION AREA.
12. A WETLAND DELINEATION WAS PERFORMED BY ENVIRONMENTAL SYSTEMS ANALYSIS INC. ON APRIL 28, 2021 AND JUNE 15, 2021.
13. THE SITE CONTAINS TWO TYPES OF ERODIBLE SOILS: 1163 BRINKLOW/LOCKTOWN CHANNERY SILT LOAMS, 15-25% SLOPES, AND 1165 BLOCKTOWN CHANNERY SILT LOAM, 25-45% SLOPES, VERY ROCKY.
14. NO TREES ON SITE WERE FOUND TO BE NATIONAL, STATE, OR COUNTY CHAMPION TREES, OR WITHIN 75% OF THE CURRENT STATE CHAMPION.
15. NO PART OF THE PROJECT IS LISTED ON THE LOCALATIONAL ATLAS OR INDEX OF HISTORICAL SITES.
16. NO FEDERAL OR MARYLAND RARE, THREATENED, OR ENDANGERED SPECIES WERE OBSERVED OR PREVIOUSLY DOCUMENTED ON-SITE BY MD-DNR.



LEGEND	
---	BOUNDARY LINE
---	LIMIT OF DISTURBANCE
---	EXISTING TREE LINE
---	EXISTING OVERHEAD LINES
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	EXISTING WOOD/FENCE
---	EXISTING FENCE
---	EXISTING FIRE HYDRANT
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	STREAM VALLEY BUFFER
---	WETLAND BUFFER
---	WATERS OF THE U.S.
---	TEMPORARY TREE PROTECTION FENCE
---	PERMANENT TREE PROTECTION FENCE
---	ROOT PRUNING
---	CRITICAL ROOT ZONE
---	BURR SILT FENCE
---	SIGNIFICANT TREE
---	SPECIMEN TREE
---	TREE TO BE REMOVED
---	MITIGATION TREE
---	FOREST CONSERVATION EASEMENT SIGN
---	NONTIDAL PEM WETLANDS
---	NONTIDAL PFD WETLANDS
---	FOREST PRESERVATION
---	FOREST CLEAR
---	REFORESTATION/FORESTATION
---	TREE SAWS - NOT CROTTED OR CARTED AS CLEAR



SHEET INDEX	
SHEET 1:	COVER SHEET
SHEET 2:	APPROVAL SHEET
SHEET 3:	50-SCALE FCP SHEET
SHEET 4:	50-SCALE FCP SHEET
SHEET 5:	50-SCALE FCP SHEET
SHEET 6:	DETAIL SHEET
SHEET 7:	DETAIL SHEET

**CERTIFICATE OF COMPLIANCE**

I DO HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND REASONABLE BELIEF, THAT ALL OF THE INFORMATION AND DATA PROVIDED WITH THIS APPLICATION IS ACCURATE, AND ALL OF THE STANDARDS AND REGULATIONS PROVIDED ON THIS PLAN IS CONSISTENT WITH THE STANDARDS OF THE APPLICABLE ZONE. THE CERTIFICATION INCLUDES, BUT IS NOT LIMITED TO, BOUNDARY INFORMATION, PROPERTY INFORMATION AND OWNERSHIP, TOPOGRAHY, HISTORIC RECORDS, ETC. I AGREE THAT THE LIMITED LIABILITY SHALL BE SUBJECT TO ANY APPLICABLE COURT ORDER. I AGREE THAT THE SIGNATURE OF THIS PLAN IS INVALID IF THE PLAN IS FOUND TO INACCURATE, FALSE OR MISLEADING.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: 4234  
 EXPIRATION DATE: 10/20/2023

Let all other signatures

**DEVELOPER'S CERTIFICATE**

THE UNDERSIGNED AGREES TO ENFORCE ALL FEATURES OF THE PRELIMINARY FOREST CONSERVATION PLAN NO. F20230420 INCLUDING FINANCIAL BONDING, FOREST PLANTING, AND ALL OTHER APPLICABLE AGREEMENTS.

DEVELOPER'S NAME: EEL KEY MET, LLC  
 ADDRESS: 1355 BEVERLY ROAD, SUITE 240, WILKES, VA 24181  
 PHONE: (552) 224-5700

SIGNATURE: \_\_\_\_\_



UPDATES/REVISIONS:

NO.	DATE	DESCRIPTION

COVER SHEET  
 PRELIMINARY FOREST CONSERVATION PLAN

**TREGONING PROPERTY**  
 DAMASCUS (12th) ELECTION DISTRICT  
 MONTGOMERY COUNTY, MARYLAND

**CPI** Charles P. Johnson & Associates, Inc.  
 Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors  
 1703 Elbow Rd., Ste 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-4594  
 Rockville, MD • Silver Spring, MD • Gaithersburg, MD • Annapolis, MD • Crofton, MD • Pikesville, MD • Fairfax, VA

CLIENT:	PROJECT:	DATE:	SCALE:
DC-TREGONING-LLC KATHRYN KLEIN 330 BRIDGES FILL RD. SUITE 240 WILKES VA 24181 301-434-7000 KALVIN@LAMTRUSTZONING.COM	W8C 200 233NW11 ATX	AUGUST 2023 1:250	1/250

COMPONENT & LATEST DATE: HEMPHILL CHARLES P.  
 DESIGNER & ASSOCIATES, INC. ALL RIGHTS RESERVED.  
 UNAUTHORIZED USE OR REPRODUCTION IS PROHIBITED.

DATE: 8/22/2023  
 FILE NO.: 2023-048-22 D

Resolution No.: 18-1272  
Introduced: September 11, 2018  
Adopted: October 30, 2018

**COUNTY COUNCIL  
FOR MONTGOMERY COUNTY, MARYLAND**

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By: County Council

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**SUBJECT:** Amendments to the Comprehensive Water Supply and Sewerage Systems Plan

**Background**

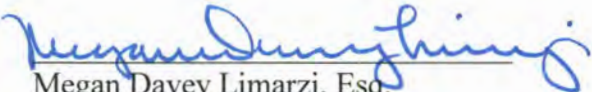
1. Section 9-501 et seq. of the Environmental Article of the Maryland Code requires the governing body of each County to adopt and submit to the State Department of the Environment a comprehensive County Plan, and from time to time amend or revise that Plan for the provision of adequate water supply systems and sewerage systems throughout the County.
2. Section 9-507 of the Environmental Article of the Maryland Code provides that the Maryland Department of the Environment (MDE) has 60 days to review a county governing body's action to amend the County's Water and Sewer Plan. Upon notice to the County, MDE may extend that review period for another 45 days, if necessary. At the conclusion of this review, MDE must either approve or reject the Council's action on each of these amendments, or the action is confirmed by default. Any action approved or taken by this resolution is not final until that action is approved by MDE or the period for final MDE action has expired.
3. In accordance with the State law on December 30, 1969, by Resolution No. 6-2563, the County Council adopted a Comprehensive Ten-Year Water Supply and Sewerage Systems Plan which was approved by the State Department of the Environment.
4. The County Council has from time to time amended the Plan.
5. On August 27, 2018, the County Council received recommendations from the County Executive regarding six Water and Sewer Plan amendments.
6. Recommendations on these amendments were solicited from the Maryland-National Capital Park and Planning Commission, Washington Suburban Sanitary Commission Staff, and affected municipalities.

7. A public hearing was held on September 25, 2018.
8. The Transportation, Infrastructure, Energy & Environment Committee discussed these amendments on October 23, 2018 and made recommendations to the Council.
9. The Council discussed these amendments on October 30, 2018.

**Action**

The County Council for Montgomery County, Maryland approves the following actions on amendments to the Ten-Year Comprehensive Water Supply and Sewerage Systems Plan as shown in the attachments to this resolution.

This is a correct copy of Council action.

  
Megan Davey Limarzi, Esq.  
Clerk of the Council

**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**

Montgomery County uses water and sewer service area categories, in part, to identify those properties that should use public water and/or sewer service versus those that should use on-site systems, usually wells and/or septic systems. Category 1 identifies properties approved for public service and that have access to public system mains. Category 3 identifies properties approved for public service but need new main extensions in order to receive public service. Categories 4 and 5 identify properties that currently should use on-site systems but are proposed for public service in the future. Category 6 identifies properties that should use on-site systems, where public service is not planned for at least the next ten years. (See page 3 for additional information.)

Property owners file category change map amendment requests seeking to change the service areas for their property from one category to another, often based on anticipated development plans. The following charts present the County Council's actions on water/sewer category map amendment requests filed with DEP and transmitted by the County Executive to the Council for consideration on August 27, 2018.

**Request [1] WSSCR 17-GWC-02A: Patricia Tregoning**

Property Information and Location Property Development	Applicant's Request: County Council Action
<ul style="list-style-type: none"> <li>• 23715 Ridge Rd., Cedar Grove</li> <li>• Parcel P565, Cow Pasture (acct. no. 01726790)</li> <li>• Map tile: WSSC – 233NW11; MD –FW12</li> <li>• East side of Ridge Rd south of the intersection of Hawkes Rd</li> <li>• RE-1 Zone; 2.09 ac.</li> <li>• Goshen – Woodfield – Cedar Grove Planning Area Clarksburg Master Plan (1994)</li> <li>• Little Seneca Creek Watershed (MDE Use IV)</li> <li>• <u>Existing use</u>: single-family house <u>Proposed use</u>: No change, single-family house to remain, but connected to public water</li> </ul>	<p><u>Existing – Requested – Service Area Categories</u></p> <p>W-5            <b>W-1</b> S-5            S-5 (No change) *</p> <p><b>Action</b></p> <p><b>Change W-5 to W-1. Change S-5 to S-6,* consistent with other nearby RE-1-zoned properties.</b></p> <p><i>*Note: Although not contemplated at this time, future subdivision of this property using septic systems will require a revision to the County's existing Septic Tier 1 designation, instead assigning Tier 3 or 4. M-NCPPC is evaluating a revision to the subdivision ordinance to address this issue.</i></p>

**Request [2] WSSCR 17-GWC-03A: Tregoning Bypass Trust**

Property Information and Location Property Development	Applicant's Request: County Council Action
<ul style="list-style-type: none"> <li>• 23700 block of Ridge Rd., Germantown</li> <li>• Parcel P600, IMPS Cow Pasture (acct. no. 03599951)</li> <li>• Map tile: WSSC – 233NW11; MD –FW12</li> <li>• East side of Ridge Rd south of and opposite Hawkes Rd. West side of Kings Valley Rd. opposite Preakness Rd.</li> <li>• RC &amp; RE-1 Zones; 119.91 acres</li> <li>• Goshen – Woodfield – Cedar Grove Planning Area Clarksburg Master Plan (1994)</li> <li>• Little Seneca Creek Watershed (MDE Use IV) &amp; Upper Great Seneca Creek Watershed (MDE Use I)</li> <li>• <u>Existing use</u>: Agriculture/Vacant <u>Proposed use</u>: 63 Single Family Homes and 120-unit Senior Living Housing</li> </ul>	<p><u>Existing - Requested Service Area Categories</u></p> <p>W-5            <b>W-3</b> S-5            <b>S-3*</b></p> <p><i>*S-3 request applies only to the areas zoned RE-1, not RC.</i></p> <p><b>Action</b></p> <p><b>Northern RE-1 Zone (residential): Maintain W-5 and S-5, with final approval of W-3 and S-3 conditioned on Planning Board approval of a preliminary plan that uses either a cluster or MPDU development option under the RE-1 Zone.</b></p> <p><b>Western RE-1 Zone (elder care): Maintain W-5 and S-5, with final approval of W-1 and S-3 conditioned on the Hearing Examiner's approval of a conditional land use under the RE-1 Zone for the elder-care facility.</b></p> <p><b>RC Zone: Maintain W-5, with final approval for W-3 conditioned on Planning Board approval of a preliminary plan that uses the cluster development option under the RC Zone. Change S-5 to S-6, consistent with Water and Sewer Plan general service policies. **</b></p> <p><i>(Continues on page 2)</i></p>

• The Maryland Dept. of the Environment (MDE) will review this resolution. Applicants may proceed with development plans and water/sewer service applications at their own risk pending MDE's concurrence with these actions by the County Council.  
• Applicants receiving a denial under this resolution may not apply again until October 30, 2019, unless specifically allowed by DEP.  
• See Attachment B for mapping of approved, conditionally approved, and deferred category change amendments.

**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**

**Request [2] WSCCR 17-GWC-03A: Tregoning Bypass Trust**

**Sewer main extension:** The provision of public sewer service should generally follow the applicant’s conceptual sewer extension design, tying into the existing sewerage system across Kings Valley Rd. east of the project site. A gravity outfall sewer main, as proposed by WSSC crossing Ovid Hazen Wells Park, is not allowed by this amendment.

The alignment and construction of the low-pressure sewer main for the elder-care project site, between the southwest corner of the site and the residential development at the northern end, will be evaluated through the development plan review. This alignment will need to minimize impacts to wooded areas and to streams and stream buffers, especially within proposed park dedication areas.

*\*\*Note: To allow the applicant’s planned subdivision of the RC-zoned area of this property using onsite septic systems, a revision to the existing County’s Septic Tier 1 designation will be needed, assigning Tier 3 or 4 instead. M-NCPPC is evaluating a revision to the subdivision ordinance to address this issue.*

**Request [3] WSCCR 17-OLN-02A: Iglesia De Cristo Mi-El Maryland Inc.**

Property Information and Location Property Development	Applicant’s Request County Council Action
<ul style="list-style-type: none"> <li>17521 Old Baltimore Rd., Olney</li> <li>Parcel P950, Rockland Farm (acct. no. 00722056)</li> <li>Map tile: WSSC – 224NW03; MD –HT56</li> <li>South side of Old Baltimore Rd east of the intersection of Winter Morning Way</li> <li>RNC Zone; 7.21 acres</li> <li>Olney Planning Area Olney Master Plan (2006)</li> <li>Northwest Branch (MDE Use IV) and Hawlings River (MDE Use IV) Watersheds</li> <li><u>Existing use:</u> Single Family Home <u>Proposed use:</u> Place of worship of up to 700 seats; retain existing house as a parsonage</li> </ul>	<p><u>Existing – Requested – Service Area Categories</u></p> <p>W-6            <b>W-1</b></p> <p>S-6            <b>S-1</b></p> <p><b>Action</b></p> <p><b>Defer action on the request pending consideration of a concept plan for the proposed development by the Development Review Committee.</b></p>

**Request [4] WSCCR 17-TRV-10A: Sami and Siham Ainane\***

*\*Purchased the properties from the original applicant, James Edwards, in Oct. 2017 and agreed to continue with this request.*

Property Information and Location Property Development	Applicant’s Request County Council Action
<ul style="list-style-type: none"> <li>12000 &amp; 12000 block of Piney Meetinghouse Rd., Potomac</li> <li>Lot 2 and Outlot A, Block D, Piney Glen Farms (acct. no. 03464486 and 03464464)</li> <li>Map tile: WSSC – 215NW11; MD –FQ12</li> <li>West side of Piney Meetinghouse Rd., south of the intersection of Greenbriar Preserve Ln.</li> <li>RE-2 Zone; Lot 2: 8.63 ac.; Outlot A: 2.51 ac.</li> <li>Travilah Planning Area Potomac Subregion Master Plan (2002)</li> <li>Watts Branch Watershed (MDE Use I); Lot 2 partially in Piney Branch subwatershed (Mont. Co, SPA)</li> <li><u>Outlot A existing use:</u> Vacant <u>Outlot A proposed use:</u> convert to building lot for one single-family house</li> <li><u>Lot 2 existing use:</u> single-family house <u>Lot 2 proposed use:</u> no change, retain existing house using a septic system.</li> </ul>	<p><u>Existing – Requested – Service Area Categories</u></p> <p>W-1            W-1 (no change)</p> <p>S-6            <b>S-1**</b></p> <p><i>**One sewer hookup only for Outlot A, transferred from Lot 2.</i></p> <p><b>Action</b></p> <p><b>Deny the request for S-1 for Outlot A; maintain S-6 with no abutting mains sewer hookup allowed.</b></p>

• The Maryland Dept. of the Environment (MDE) will review this resolution. Applicants may proceed with development plans and water/sewer service applications at their own risk pending MDE’s concurrence with these actions by the County Council.  
 • Applicants receiving a denial under this resolution may not apply again until October 30, 2019, unless specifically allowed by DEP.  
 • See Attachment B for mapping of approved, conditionally approved, and deferred category change amendments.



**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**

**Request [5] WSCCR 18-TRV-02A: David L. & Nancy S. Scull**

Property Information and Location Property Development	Applicant's Request County Council Action				
<ul style="list-style-type: none"> <li>10125 Bevern Ln., Rockville</li> <li>Lot 29, Block B, Hollinridge Sec 4 (acct. no. 00894831)</li> <li>Map tile: WSSC – 216NW10; MD –FQ43</li> <li>West side of Bevern Ln., at the cul-de-sac, 1100 ft southwest of the intersection with Bettiker Ln.</li> <li>RE-1 Zone; 1.89 acres (82,456 sq. ft.)</li> <li>Travilah Planning Area Potomac Subregion Master Plan (2002)</li> <li>Watts Branch Watershed (MDE Use I)</li> <li><u>Existing use:</u> Existing Single-Family Home <u>Proposed use:</u> Keep Existing Single-Family Home</li> </ul>	<p><u>Existing – Requested – Service Area Categories</u></p> <table> <tr> <td>W-1</td> <td>W-1 (No Change)</td> </tr> <tr> <td>S-6</td> <td>S-1</td> </tr> </table> <p><b>Action</b></p> <p><b>Change S-6 to S-3 under the Potomac Peripheral Sewer Service Policy recommended by the 2002 Potomac Subregion Master Plan.</b></p> <p><b>The sewer main extension needed to serve this property cannot be constructed through the adjacent Watts Branch Stream Valley Park. The expected main alignment will be from the sewer main located on 10124 Bevern Ln. via an existing sewer easement and the Bevern Ln. cul-de-sac. (See Attachment B.)</b></p> <p><i>Note: The Peripheral Sewer Service Policy applies to properties in the Glen Hills Study Area by a policy revision adopted for the 2018 Water and Sewer Plan update. The approved 2018 Plan update is currently under review by the Maryland Dept. of the Environment (MDE).</i></p>	W-1	W-1 (No Change)	S-6	S-1
W-1	W-1 (No Change)				
S-6	S-1				

**Request [6] WSCCR 09A-TRV-02: Ted and Roxanne Smart**

Property Information and Location Property Development	Applicant's Request County Council Action				
<ul style="list-style-type: none"> <li>13101 Valley Dr., Rockville</li> <li>Parcel P592, Discover &amp; Younger Brothers; acct no. 00047883 *</li> <li>Map tile – MD: FR51; WSSC: 217NW09</li> <li>Southeast corner, intersection of Valley Dr. and Cleveland Dr.</li> <li>Travilah Planning Area Potomac Subregion Master Plan (2002)</li> <li>Watts Branch Watershed (MDE Use I)</li> <li>RE-1 Zone; 1.61 acres</li> <li><u>Existing use:</u> unimproved, wooded <u>Proposed use:</u> one new single-family house the existing parcel.</li> </ul> <p><i>*Note: This request originally included both Parcels P592 and P651 (adjacent to the south at 13001 Valley Dr.). The applicants subsequently sold Parcel P651 and it is therefore now excluded from WSCCR 09A-TRV-02.</i></p>	<p><u>Existing – Requested – Service Area Categories</u></p> <table> <tr> <td>W-1</td> <td>W-1 (no change)</td> </tr> <tr> <td>S-6</td> <td>S-3</td> </tr> </table> <p><b>Action</b></p> <p><b>Change S-6 to S-3 under the Potomac Peripheral Sewer Service Policy recommended by the 2002 Potomac Subregion Master Plan.</b></p> <p><i>Note: The Peripheral Sewer Service Policy applies to properties in the Glen Hills Study Area by a policy revision adopted for the 2018 Water and Sewer Plan update. The approved 2018 Plan update is currently under review by the Maryland Dept. of the Environment (MDE).</i></p>	W-1	W-1 (no change)	S-6	S-3
W-1	W-1 (no change)				
S-6	S-3				

Prior Actions for WSCCR 09A-TRV-02

**County Council Action (CR 17-217, 7/19/11):** “Defer action on the request for category S-3 pending the results of DEP’s work on the Glen Hills sanitary study.”

**County Council Action (CR 18-647, 10/25/16):** “Defer action on the S-3 request pending outcome of the Council’s consideration of the abutting main policy as part of the expected Water and Sewer Plan update in the spring of 2017.”

**County Council Decision (CR 18-956, 10/31/17):** “Tabled by the T&E Committee pending further committee discussion of the draft 2017 Water and Sewer Plan.”

- The Maryland Dept. of the Environment (MDE) will review this resolution. Applicants may proceed with development plans and water/sewer service applications at their own risk pending MDE’s concurrence with these actions by the County Council.
- Applicants receiving a denial under this resolution may not apply again until October 30, 2019, unless specifically allowed by DEP.
- See Attachment B for mapping of approved, conditionally approved, and deferred category change amendments.

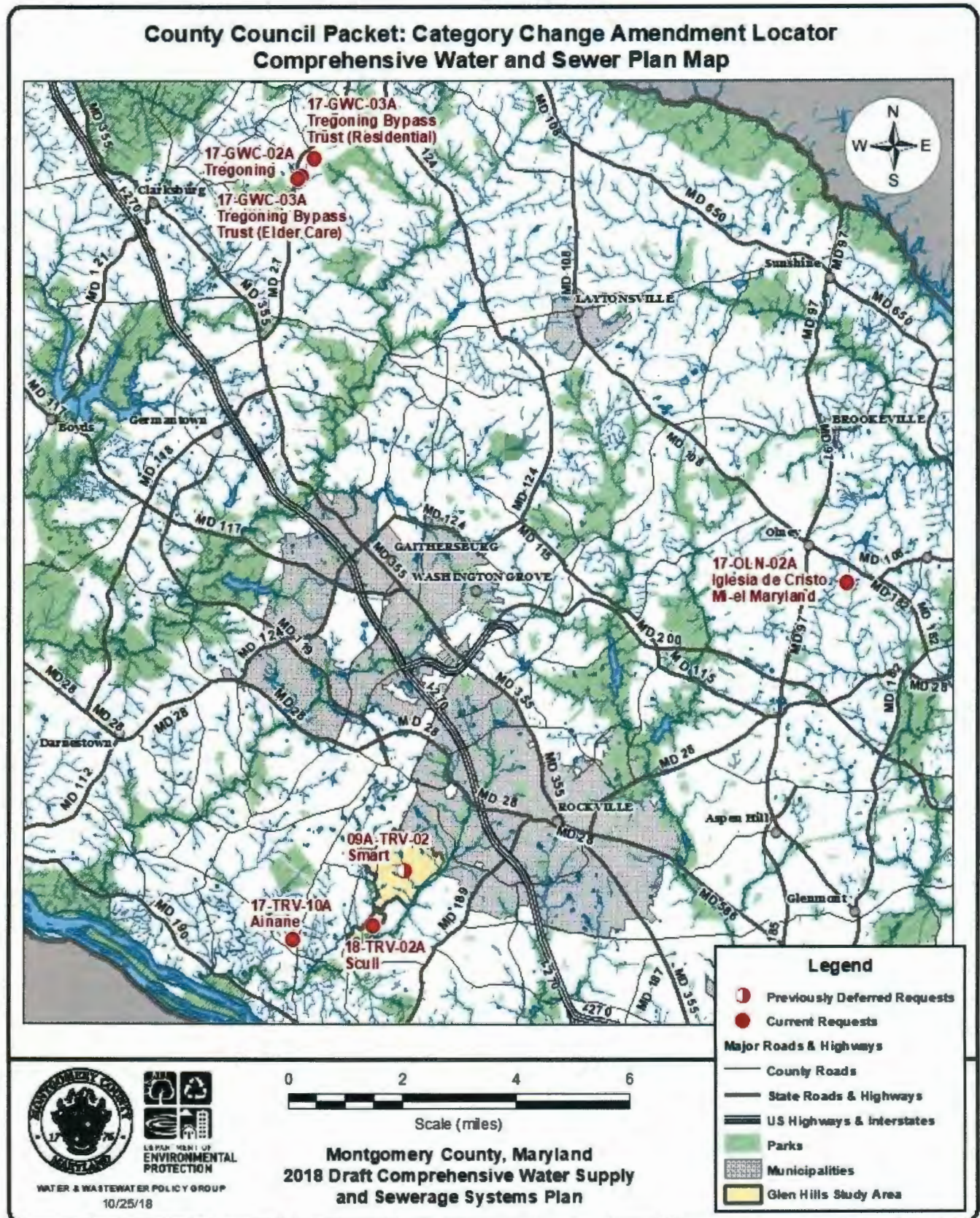
**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**

**Water & Sewer Service Area Categories Summary**

Category Definition and General Description	Category Definition and General Description
<p style="text-align: center;"><b>W-1 and S-1</b></p> <p>Properties approved for and generally with existing access to community (public) service. This may include properties which have not yet connected to existing community service.</p>	<p style="text-align: center;"><b>W-5 and S-5</b></p> <p>Properties planned for future public service, but which may use private, on-site systems (wells and septic systems) on a permanent basis. • Areas where improvements to or construction of new community systems are planned for the seven- through ten-year period.</p>
<p style="text-align: center;"><b>W-3 and S-3</b></p> <p>Properties planned and approved for community (public) service, but <u>without</u> existing access to public service. • Public service will generally be provided within two years as development and requests for community service are planned and scheduled.</p>	<p style="text-align: center;"><b>W-6 and S-6</b></p> <p>Properties that will use private, on-site systems (wells and septic systems), where community (public) service is not planned. • Category 6 includes areas that are planned or staged for community service beyond the scope of the plan's ten-year planning period, and areas that are not ever expected for community service on the basis of adopted plans.</p>
<p style="text-align: center;"><b>W-4 and S-4</b></p> <p>Properties planned for future public service, but which need to use private, on-site systems (wells and septic systems) in the interim. • Areas where improvements to or construction of new community systems will be programmed for the three- through six-year period. B</p>	<p>Note: Although the majority of properties in the county have the same water category as sewer category (i.e. W-3 and S-3, or W-5 and S-5), this is not always the case. The County does not always assign water and sewer categories in tandem, due to differences in service policies or to actual service availability. For example, a particular property could have service area categories W-1 and S-6. Therefore, it is important to know both the water <i>and</i> sewer service area categories for a property. Montgomery County does not use categories W-2 and S-2 in its Plan.</p>

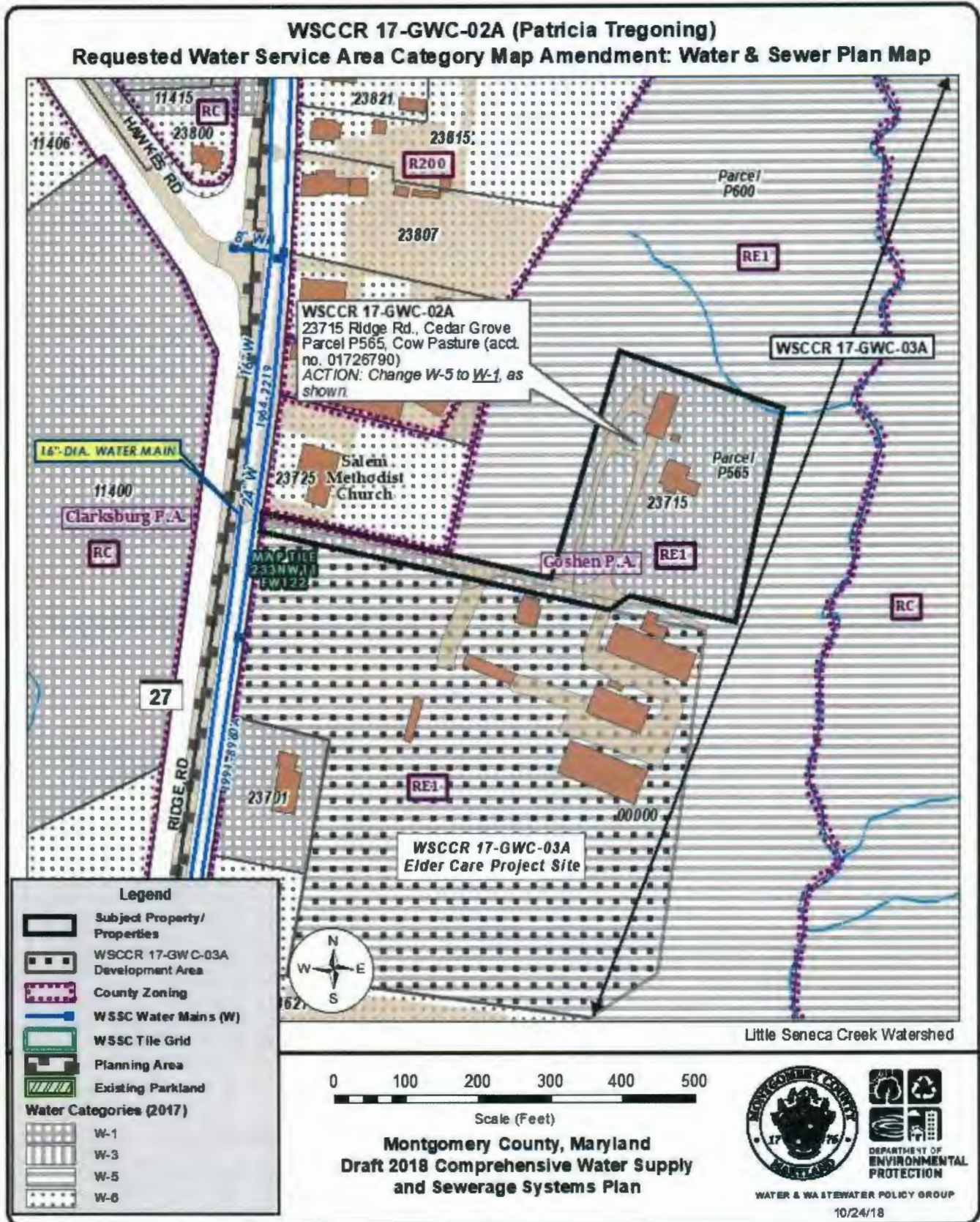
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- *See Attachment B for mapping of approved, conditionally approved, and deferred category change amendments.*

**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**



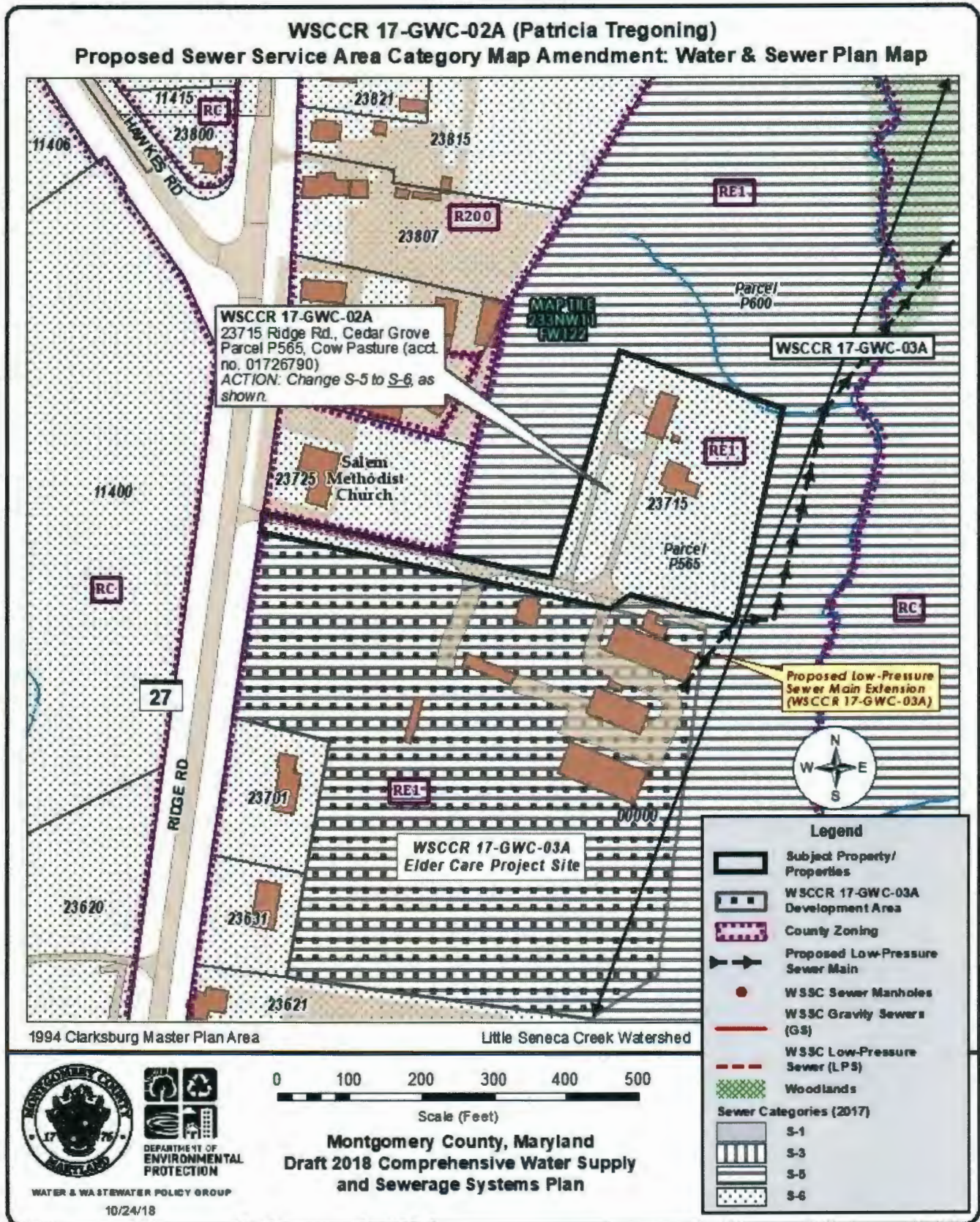
Attachment B presents mapping only for approved, conditionally approved, and deferred category change amendments. See Attachment A for the specific language of the Council's actions and information on water and sewer service area categories.

**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**



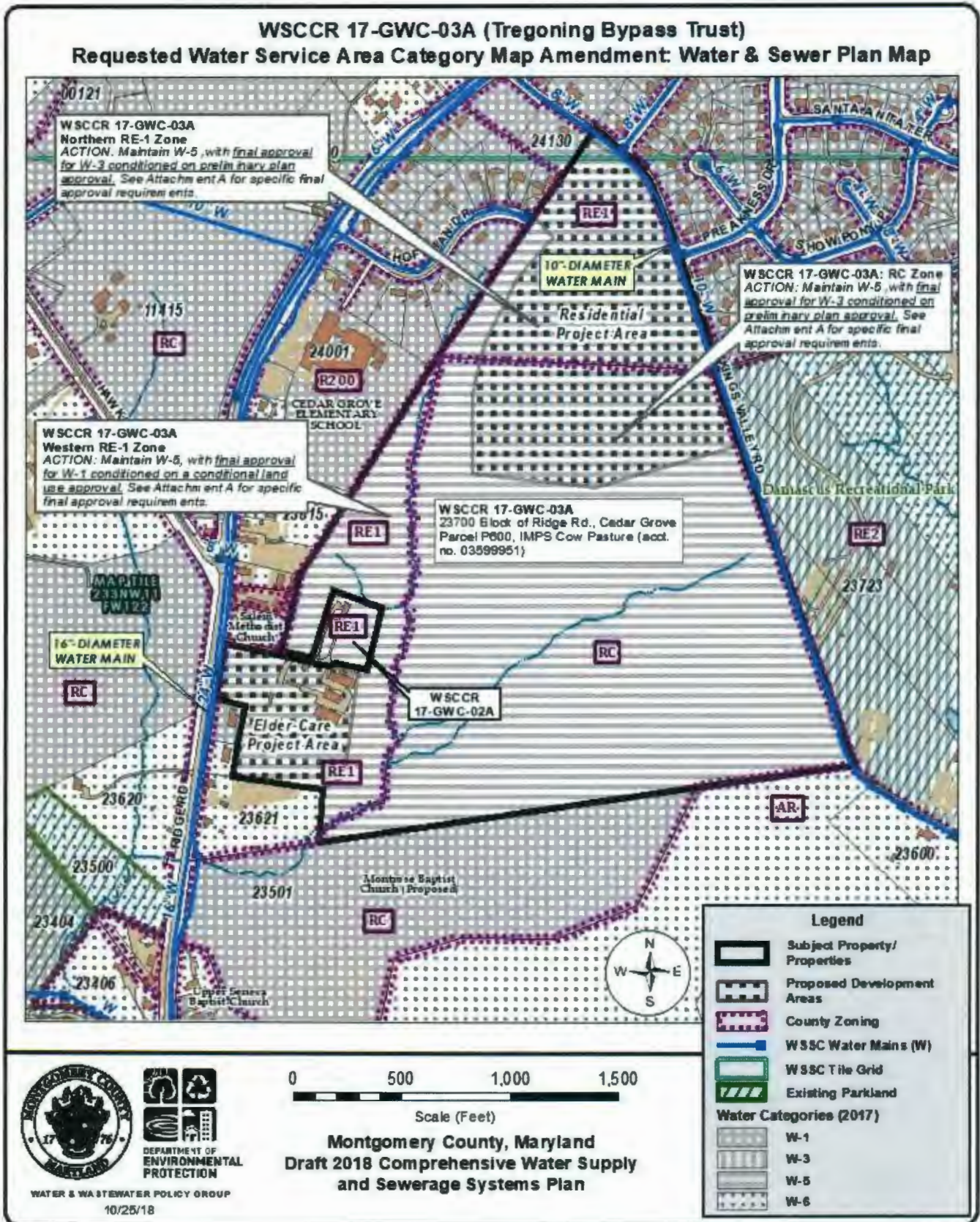
Attachment B presents mapping only for approved, conditionally approved, and deferred category change amendments. See Attachment A for the specific language of the Council's actions and information on water and sewer service area categories.

Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
 August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments



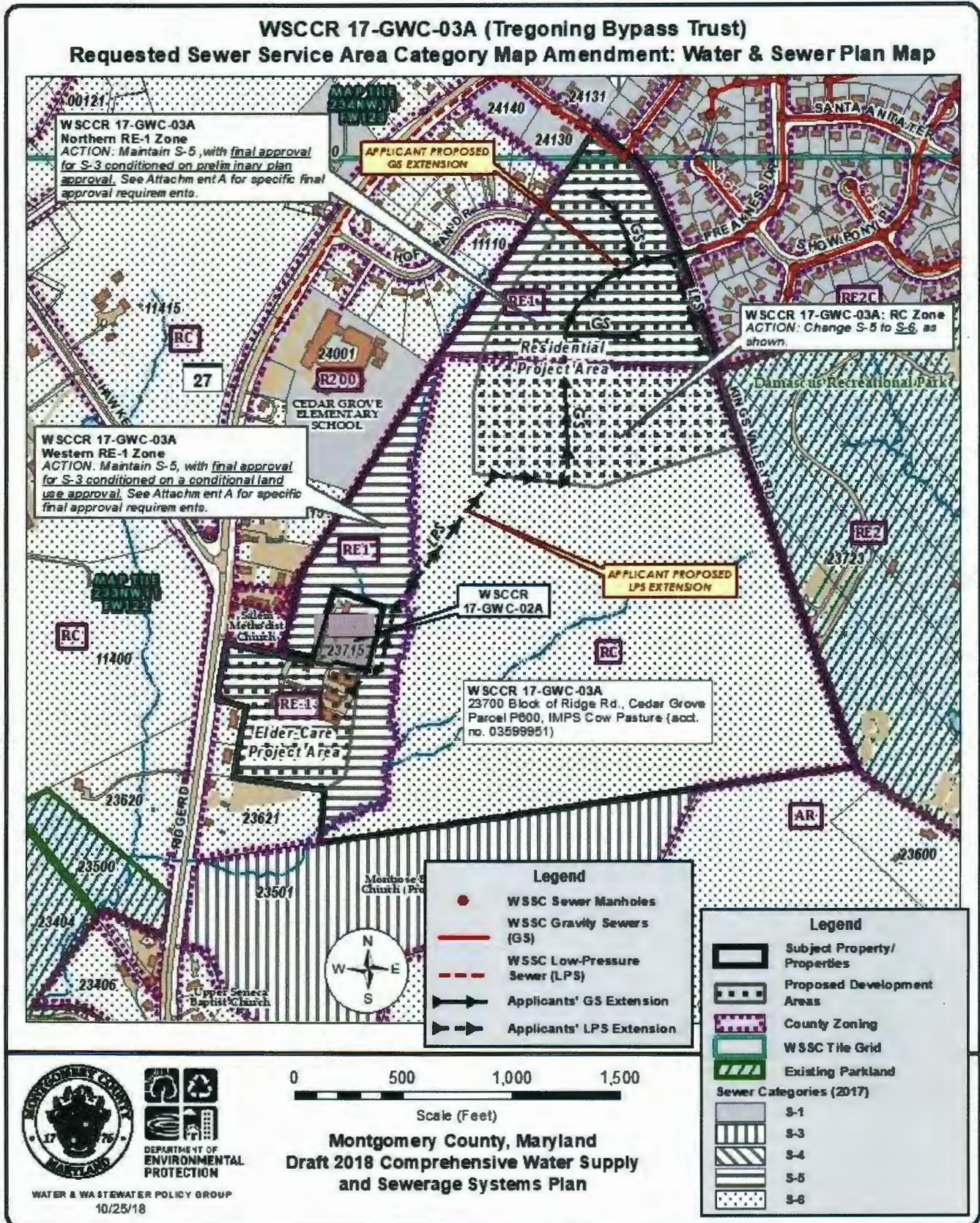
Attachment B presents mapping only for approved, conditionally approved, and deferred category change amendments. See Attachment A for the specific language of the Council's actions and information on water and sewer service area categories.

**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**



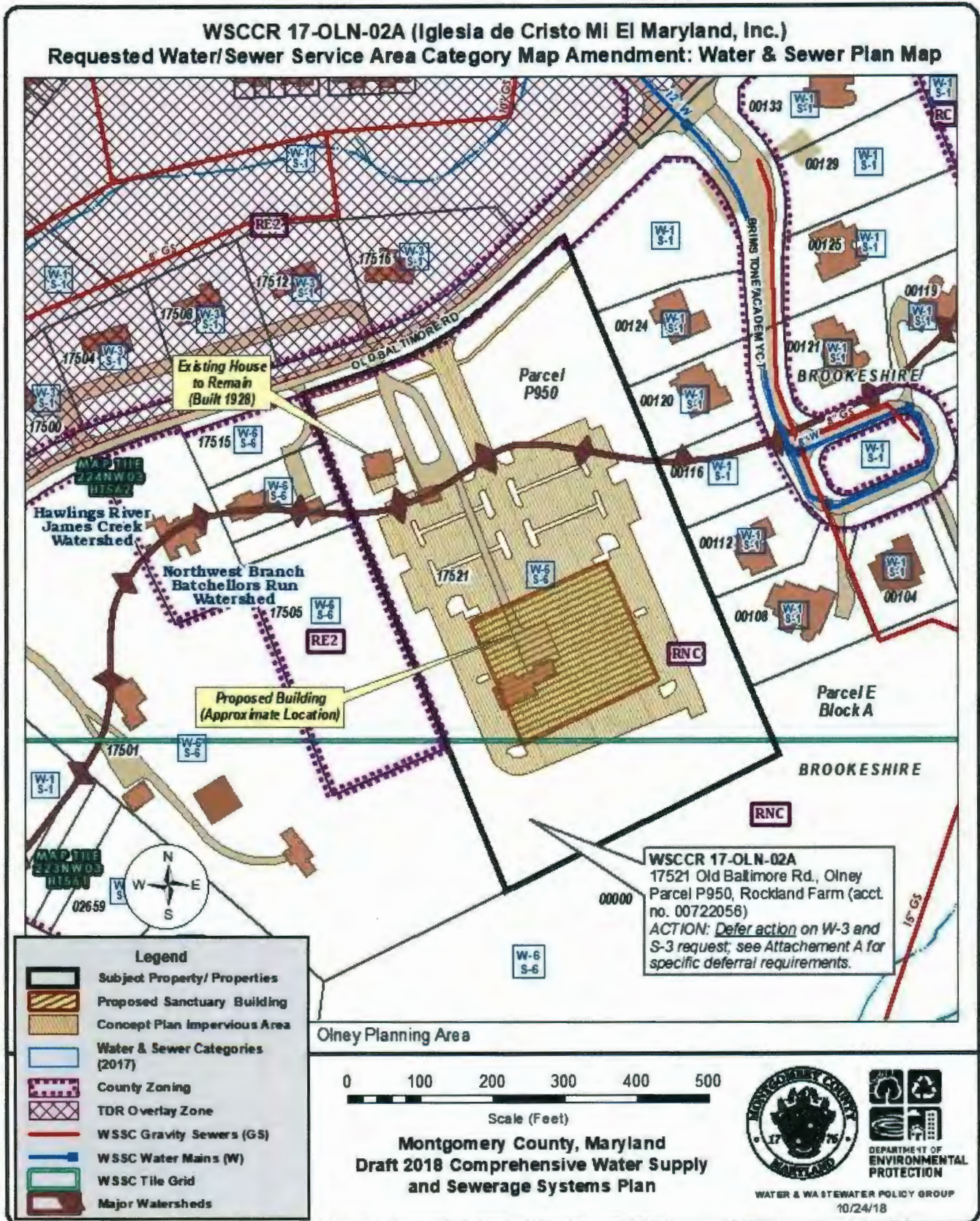
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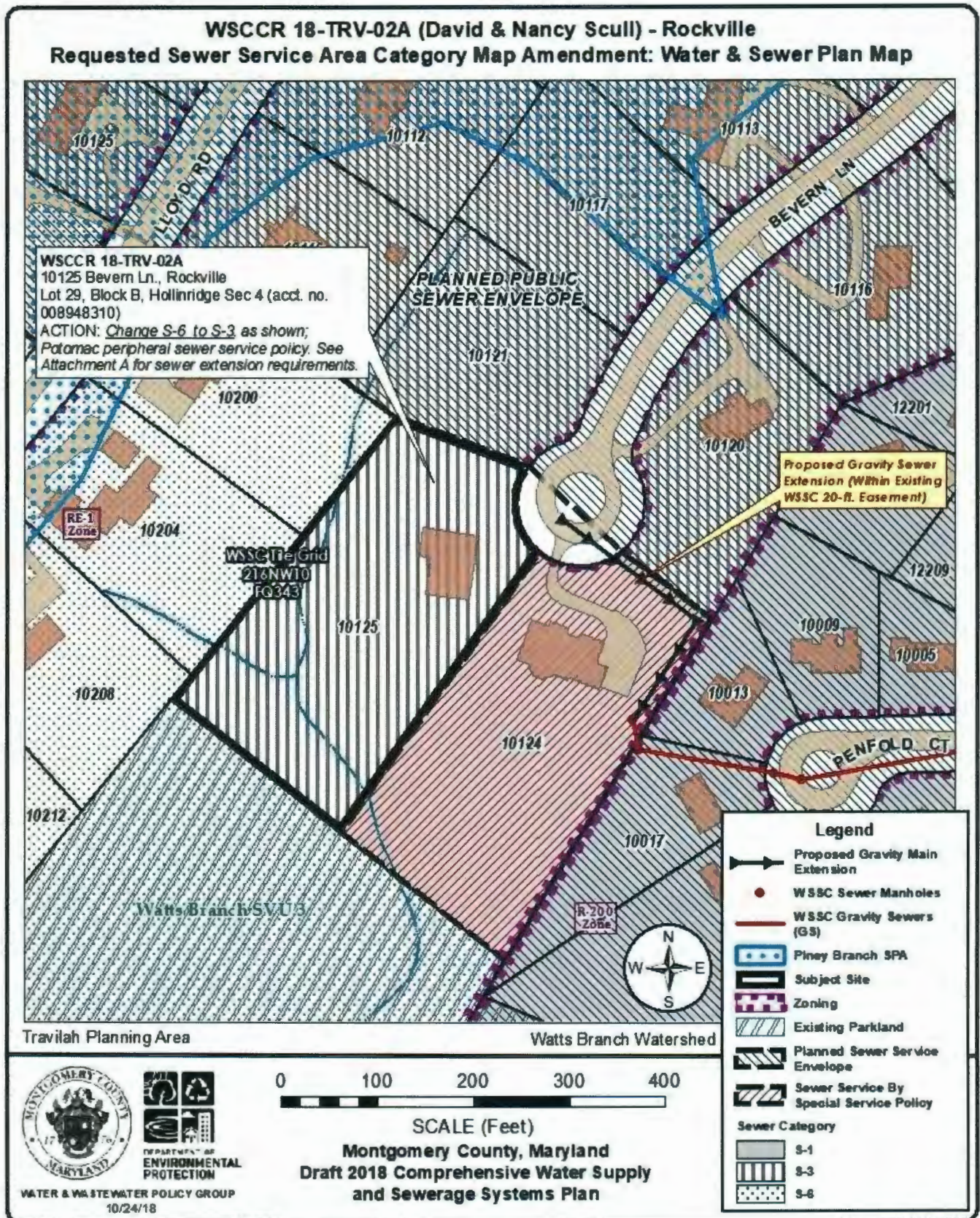
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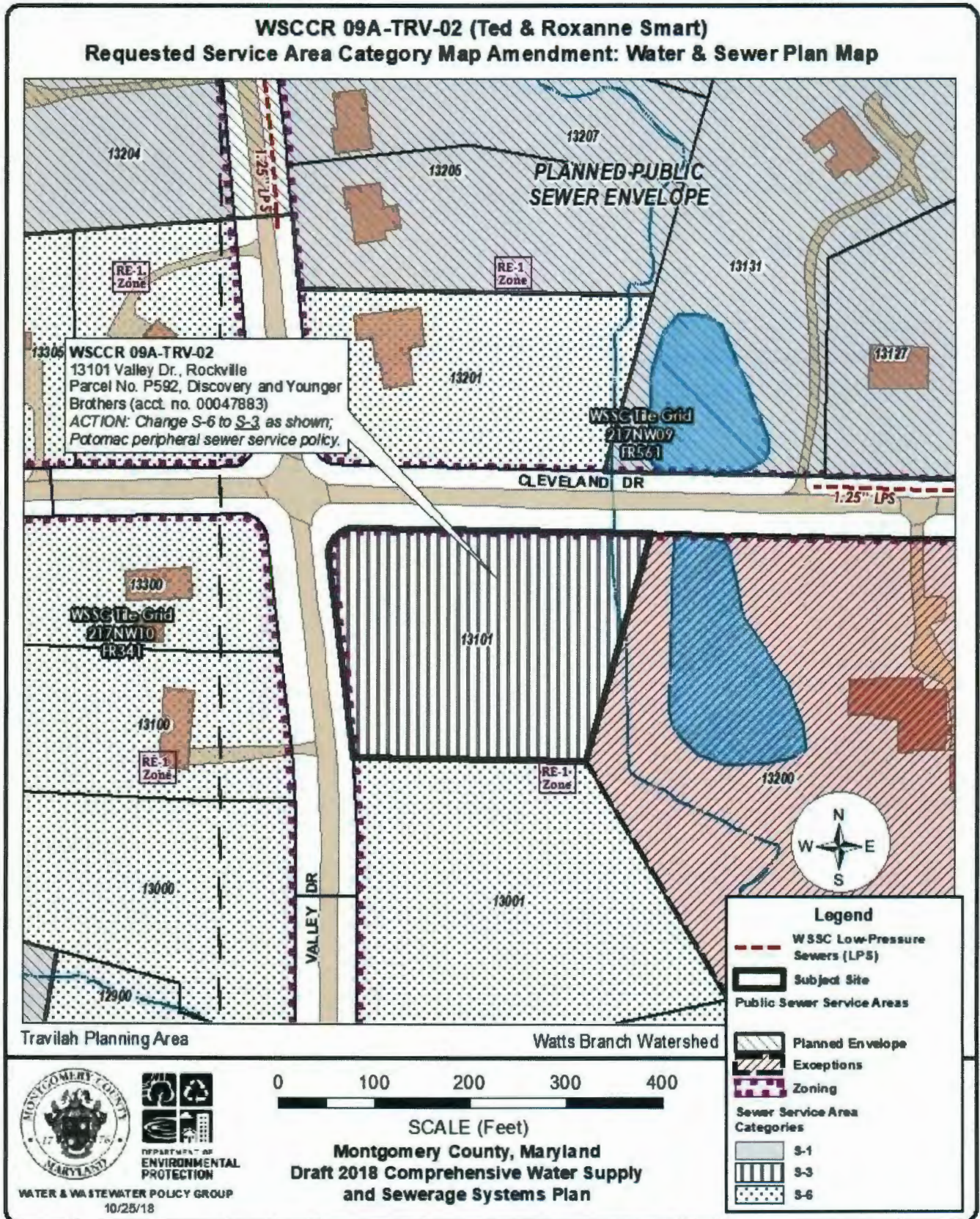


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**Montgomery County Comprehensive Water Supply and Sewerage Systems Plan  
August 2018 Amendment Transmittal: Water/Sewer Category Map Amendments**



# CPJ Charles P. Johnson & Associates, Inc.

Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors

---

Silver Spring, MD • Gaithersburg, MD • College Park, MD • Frederick, MD • Fairfax, VA

Planning Board

Maryland National Capital Park and Planning Commission

2425 Reddie Drive

14<sup>th</sup> Floor

Wheaton, MD 20902

Re: Preliminary Forest Conservation Plan #F20230420 – Tregoning Property  
Residential development of Parcels 104 & 617  
Request for Tree Variance

Dear Planning Board:

On behalf of our client, ESC Tregoning LC (the "Applicant"), we hereby request a Tree Variance in connection with Preliminary Forest Conservation Plan No.F20230420 and Preliminary Plan No.120230120, that is being submitted concurrently with the Preliminary Forest Conservation Plan, for the properties identified as Parcels 104 (the "Subject Property") & 617 pursuant to Section 22A-12 of Chapter 22A of the Montgomery County Code (the "County Code").

## I. Background Information

In order to secure approval of the removal or disturbance of certain identified trees that are considered priority for retention and protection under State law and the Montgomery County Code, Charles P. Johnson & Associates (CPJ), hereby requests a Tree Variance for the of the property identified as Parcels 104 & 607.

The Applicant proposes developing on the two parcels using the MPDU optional method to create a yield of 46 units on 37.6 acres. Per the approved Pre-Preliminary Plan No. 72020020, the Applicant will cluster 44 units and six MPDU's on the 17.81 acre Subject Property. The development rights for the remaining two units will be retained by the Tregoning family on the 19.80 acre of Parcel 617.

The development of the 44 units by this subdivision application will require the removal of one (1) tree and the disturbance of the critical root zones of an additional six (6) trees. The individual trees are all depicted on the approved Natural Resources Inventory/ Forest Stand Delineation No.420220450.

## II. Tree Removal and Critical Root Zone Disturbance

The 46-unit development proposed by this subdivision application requires approval of a Tree Variance pursuant to Section 22A-21 of Chapter 22A of the County Code. Approval of the requested Tree Variance will allow the removal of one (1) tree and the disturbance of the critical root zones of six (6) additional trees. Approval of the Tree Variance Request will enable the Applicant to develop the Subject Property in a manner consistent with the

1994 Clarksburg Master Plan recommendation that this property developed for residential use since the Subject Property is considered part of the Ridge Road Transition Area.

### III. The Variance Requirements

Section 5-1607 of the Natural Resources Article requires a variance for the removal or disturbance of trees having a diameter of 30 inches when measured at 4.5 feet above the ground. Section 5-1611 of the Natural Resources Article authorizes a local jurisdiction to grant a variance:

"where owing to special features of a site or other circumstances, implementation of this subtitle would result in unwarranted hardship to the applicant."

Chapter 22A of the County Code specifies the circumstances when a Tree Variance, a variance from Chapter 22A, is required. Section 22A-21(a) of the County Code establishes the "minimum criteria" for securing a Specimen Tree Variance. Applicants seeking a variance from any Chapter 22A requirement must:

- (1) describe the special conditions peculiar to the property which would cause the unwarranted hardship;
- (2) describe how enforcement of this Chapter will deprive the landowner of rights commonly enjoyed by others in similar areas;
- (3) verify that State water quality standards will not be violated and that a measurable degradation in water quality will not occur as a result of granting the variance; and
- (4) provide any other information appropriate to support the request.

A Tree Variance that meets the "minimum criteria" set out in Section 22A-21(a) of the County Code may not be approved if granting the request:

- (1) will confer on the applicant a special privilege that would be denied to other applicants;
- (2) is based on conditions or circumstances which result from the actions by the applicant;
- (3) is based on a condition relating to land or building use, either permitted or nonconforming, on a neighboring property; or
- (4) will violate State water quality standards or cause measurable degradation in water quality

The following paragraphs illustrate the factual basis supporting the approval of this Tree Variance by the Planning Board. Technical information for this request has been provided by CPJ.

#### **A. The special conditions that are peculiar to the Subject Property that would cause the unwarranted hardship are described as follows:**

A requirement, as communicated by Staff during the Planning Board Meeting, was to provide a connection from the existing dead-end Hoffman Drive public road. Staff communicated the need for connectivity of "all kinds of" transportation users and encouraged integration between existing homes and the proposed development. The seven (7) total trees that are impacted by development are the only obstacle to a development proposal that meets the requirements for the RE-1 optional MPDU method and the recommendations made by Staff.

The Applicant would suffer unwarranted hardship if the removal and disturbance of the designated trees were not allowed to construct the proposed Hoffman Drive connection and development of the lots in the southwest

portion of the Subject Property. Unwarranted hardship is demonstrated for the purpose of obtaining a Tree Variance when an applicant presents evidence that denial of the Variance would deprive the Applicant of the reasonable and substantial use of the property. The development of 46-units is clearly within the class of reasonable and substantial uses that justify the approval of a Tree Variance for the Subject Property. If the requested Variance were denied the Applicant would be precluded from developing the Subject Property for a reasonable and significant use commonly enjoyed by virtually all other property owners in the community.

**B. The following paragraphs describe how enforcement of Chapter 22A will deprive the landowner of rights commonly enjoyed by others in similar areas.**

If the requested Variance were denied, the Applicant would suffer unwarranted hardship and would be deprived of rights commonly enjoyed by other property owners in the RE-1 zone and adjoining areas similar to the location of the Property. If the requested variance were denied, the Applicant would be denied the right enjoyed by other similarly situated property owners to develop their RE-1 zoned property in a manner permitted by the zoning ordinance that is consistent with the development history of the neighborhood, block and subdivision.

If the variance were not granted for the trees identified on the attached chart, those trees would have to remain and be undisturbed and the Applicant would be unable to develop the property, and construct the Hoffman Drive connection, as required by Staff, and would result in the disparate treatment of the Applicant in comparison the exercise of rights commonly enjoyed by others in the same area and in similar RE-1 zoned areas.

**C. State water quality standards will not be violated and that a measurable degradation in water quality will not occur as a result of granting the variances.**

A Stormwater Management Concept Plan has been submitted for the Subject Property using environmental site design techniques to the maximum extent practicable and the proposed development will meet State water quality standards. The approval of the requested Variance will not result in any measurable degradation in water quality standards.

A copy of the approved Stormwater Management Concept Plan is included in the submission of the Preliminary Plan.

**D. Other information that supports the requested variances:**

The Approved and Adopted Trees Technical Manual lists several factors for consideration when reviewing applications for clearing that now require the approval of a Tree Variance. Generally, the Technical Manual recognizes that clearing is appropriate for street and driveway construction to provide access to new development and to create a building envelope for development. In order to provide the Hoffman Drive connection, Tree #10 will need to be removed.

The Technical Manual also acknowledges that well planned clearing balances the public policies of preserving forest and funneling development into appropriate locations. The Technical Manual provides that one factor to be considered.

"The extent to which the actual or intended use of the property, as developed or as proposed to be developed in accordance with the regulations of the Zoning Ordinance and/or area master plans, require clearing of trees."

The proposed Subject Property development of 46-units, utilizing the RE-1 optional MPDU method, fully complies with the specific regulations of the Zoning Ordinance and the land use recommendations and intentions of the Master Plan.

As further basis for its variance request, the applicant can demonstrate that it meets the Section 22A-21(d) *Minimum criteria*, which states that a variance must not be granted if granting the request:

(1) Will confer on the applicant a special privilege that would be denied to other applicants;

**Response: The development was specifically zoned RE-1, with the option for Optional MPDU method per the zoning ordinance. As such, this is not a special privilege to be conferred on the applicant.**

(2) Is based on conditions or circumstances which are the result of the actions by the applicant;

**Response: The Property Owner has taken no actions leading to the conditions or circumstances that are the subject of this variance request.**

(3) Arises from a condition relating to land or building use, either permitted or nonconforming, on neighboring property; or

**Response: The surrounding land uses (residences) do not have any inherent characteristics or conditions that have created or contributed to this particular need for a variance.**

(4) Will violate State water quality standards or cause measurable degradation in water quality.

**Response: Granting this variance request will not violate State water quality standards or cause measurable degradation in water quality.**

Below is a list of variance trees with a status that indicates impacts, but saved or variance trees to be removed.

**VARIANCE TREES TO BE REMOVED**

Tree	Common Name	Tree Species	DBH	Condition	Variance Request
#10	Tree of Heaven	Ailanthus altissima	26"	Good	Yes

(cont.)

Tree	Comments	% CRZ Impacts	Disposition
#10	Severe impact from construction of Hoffman Drive connection.	100%	Remove

**CRITICAL ROOT ZONES OF VARIANCE TREES TO BE DISTURBED**

Tree	Common Name	Tree Species	DBH	Condition	Variance Request
#9	Chesnut Oak	Quercus montana	36"	Good	Yes
#14	Tulip Poplar	Liriodendron Tulipifera	30"	Good	Yes
#21	Red Maple	Acer rubrum	30"	Good	Yes
#31	Tulip Poplar	Liriodendron Tulipifera	36"	Good – lean	Yes

(cont.)

Tree	Comments	%CRZ Impacts	Disposition
#9	Minor grading impacts from Hoffman Drive connection.	10%	Retain and protect tree
#14	Minor grading impacts from Hoffman Drive connection.	1%	Retain and protect tree
#21	Minor impacts from grading on Lot 23A.	9%	Retain and protect tree
#31	Minor impacts from grading on Lot 25A.	12%	Retain and protect tree

**Conclusion:**

For the above reasons, the applicant respectfully requests that the Planning Board APPROVE its request for a variance from the provisions of Section 22A of the Montgomery County Forest Conservation Ordinance, and thereby, GRANTS permission to impact/remove the variance trees in order to allow the construction of this vital project.

The recommendations in this report are based on tree conditions noted at the time the field work was conducted and updated for specific construction measures prior to the submittal of the forest conservation plan. Tree condition can be influenced by many environmental factors, such as wind, ice and heavy snow, drought conditions, heavy rainfall, rapid or prolonged freezing temperatures, and insect/disease infestation. Therefore, tree conditions are subject to change without notice.

The plans and plotting of tree locations were furnished for the purpose of creating a detailed Preliminary Forest Conservation Plan. All information is true and accurate to the best of my knowledge and experience. All conclusions are based on professional opinion and were not influenced by any other party.

Sincerely,

Michael J. Loe, PLA, ASLA



# Tregoning Site

Montgomery County, Maryland

May 5, 2023

## Local Area Transportation Review

### Prepared for:

### ESC Tregoning, L.C.

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Vice President

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## *APPENDICES*

**APPENDIX A** – Correspondence, Intersection Turning Movement Counts, and Aerial Photos

**APPENDIX B** – Intersection Capacity Analysis Worksheets

**APPENDIX C** – Trip Assignment for Approved Developments

Prepared by:     Wes Guckert, PTP  
                          Qiang Tian, P.E., PTOE

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# INTRODUCTION AND SUMMARY OF FINDINGS

## Study Purpose

The primary purpose of this Traffic Impact Analysis is to determine what impact the development of this site will have on the adjacent roadways. The site is planned to be developed with 38 single-family dwelling units and 6 townhouse units.

## Study Criteria/Methodology

This Traffic Impact Analysis has been prepared in accordance with the current requirements of the Subdivision Staging Policy and the Local Area Transportation Review (LATR) Guidelines for the Maryland-National Capital Park and Planning Commission (M-NCPPC). This property is located in the Rural East Policy Area, which is in a Green Policy Area.

The trip generation determinations made as part of this report are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual (11<sup>th</sup> Edition) and the requirements of the LATR guidelines.

A Scoping Agreement was prepared for this proposed development, and a copy of this agreement is contained in Appendix A. This agreement was approved by the Transportation Planning Staff with minor adjustments. These adjustments are also outlined in Appendix A. As a result of the Scoping Agreement and trip generation determination for the project, it was determined that the project would generate 67 new peak hour person trips and therefore requires a Motor Vehicle Adequacy Analysis. In addition, it was determined that the subject site would generate sufficient pedestrian activity to require a Pedestrian and Bicycle System Adequacy Test for the subject site. A Vision Zero statement is also provided. Details on the limits of each of these analyses are described in the respective section of the LATR.

The Tregoning Site is situated within the Rural East Policy Area, which is classified as green. For sites within the Green Policy Areas, the Critical Lane Volume (CLV) level of service applies to study intersections with a CLV of 1,350 or less and the Highway Capacity Manual (HCM) delay-based level of service standard applies to study intersections with a CLV of more than 1,350. Queuing Analyses using Synchro/SimTraffic were also undertaken at each key intersection.

All turning movement counts for this project were collected in May 2022 while public schools in Montgomery County were open for in-person learning.

## Scope of Services

The principal scope of services undertaken as part of this report are as follows:

- Field investigation to collect physical information concerning the nearby road network.
- Include aerial photos of each of the study area intersections.
- Conduct intersection turning movement counts from 6:30–9:30 AM and 4–7 PM at the study area intersections.
- Obtain information from M-NCPPC relative to other approved developments planned in the vicinity of the subject site.
- Conduct a Trip Generation and Trip Distribution Analysis for the other nearby developments.
- Conduct Trip Generation and Trip Distribution Analysis for the proposed development of the subject site.
- Conduct Intersection Capacity Analyses to determine existing and projected levels of service at the study area intersections to address the Motor Vehicle Adequacy requirements for this site.
- Conduct an inventory of the existing pedestrian, bicycle, and transit facilities located in the vicinity of the subject property.
- Conduct analysis to satisfy the Pedestrian Adequacy Test for the subject site.
- Conduct analysis to satisfy the Bicycle System Adequacy Test for the subject site.
- Address Vision Zero requirements to review high injury network segments, assess safety issues, review travel speeds, and describe site access.
- Provide recommendations for any off-site improvements that may be necessary in order to meet the requirements of M-NCPPC for this site.

## Summary of Findings and Recommendations

The results of our analysis have indicated that the development of the property as proposed will not have an adverse effect on the nearby road system and that the study intersections are projected to continue to operate at acceptable levels of service. Since all locations are considered acceptable, improvements are not required to demonstrate vehicular adequacy.

Pedestrian, bicycle, and safety analyses were also conducted within the defined study area. Several items were noted as areas of concern. Given constraints noted in this report on adjacent properties and limited impact of improvements, Applicant should pay into LATR using published proportionality guidelines.

The developer wants to ensure there is a connection through their project from MD 27 to Kings Valley Road. To proceed south on MD 27, it will be safer to use the traffic signal at MD 27/ Kings Valley Road (see Preferred Option on Figure 1A, page 5).

### Cut-Through Traffic is a Safety Issue

Note that we also reviewed the Applicant's proposed alignment of Hoffman Drive through the community. It is important to discourage cut through vehicular traffic using Hoffman Drive at rush hour traffic. Given this, the Applicant has proposed Hoffman Drive to intersect with Street B in the community as a "T" intersection, which provides more traffic calming than a direct connection to Kings Valley Road.

1. Offset "T" intersections are a **traffic calming** measure.
2. Traffic calming is meant to **slow traffic**.
3. Slow traffic is a goal of **Vision Zero**.
4. Faster traffic is a **SAFETY** issue.

To the southeast of the property, there is active farming up to the edge of Kings Valley Road. Sidewalks in this area are not practical. Interaction of pedestrians and farming equipment seems incompatible.

The methodology used to undertake our analysis is contained in the sections that follow.

# MOTOR VEHICLE ADEQUACY – EXISTING TRAFFIC CONDITIONS

## Site Information

The subject property is located in the southeast quadrant of MD 27 and Kings Valley Road as shown on Figure 1. Figure 1A is a copy of the proposed site plan for the subject site.

Figure 1. Site Location and Study Intersection Map

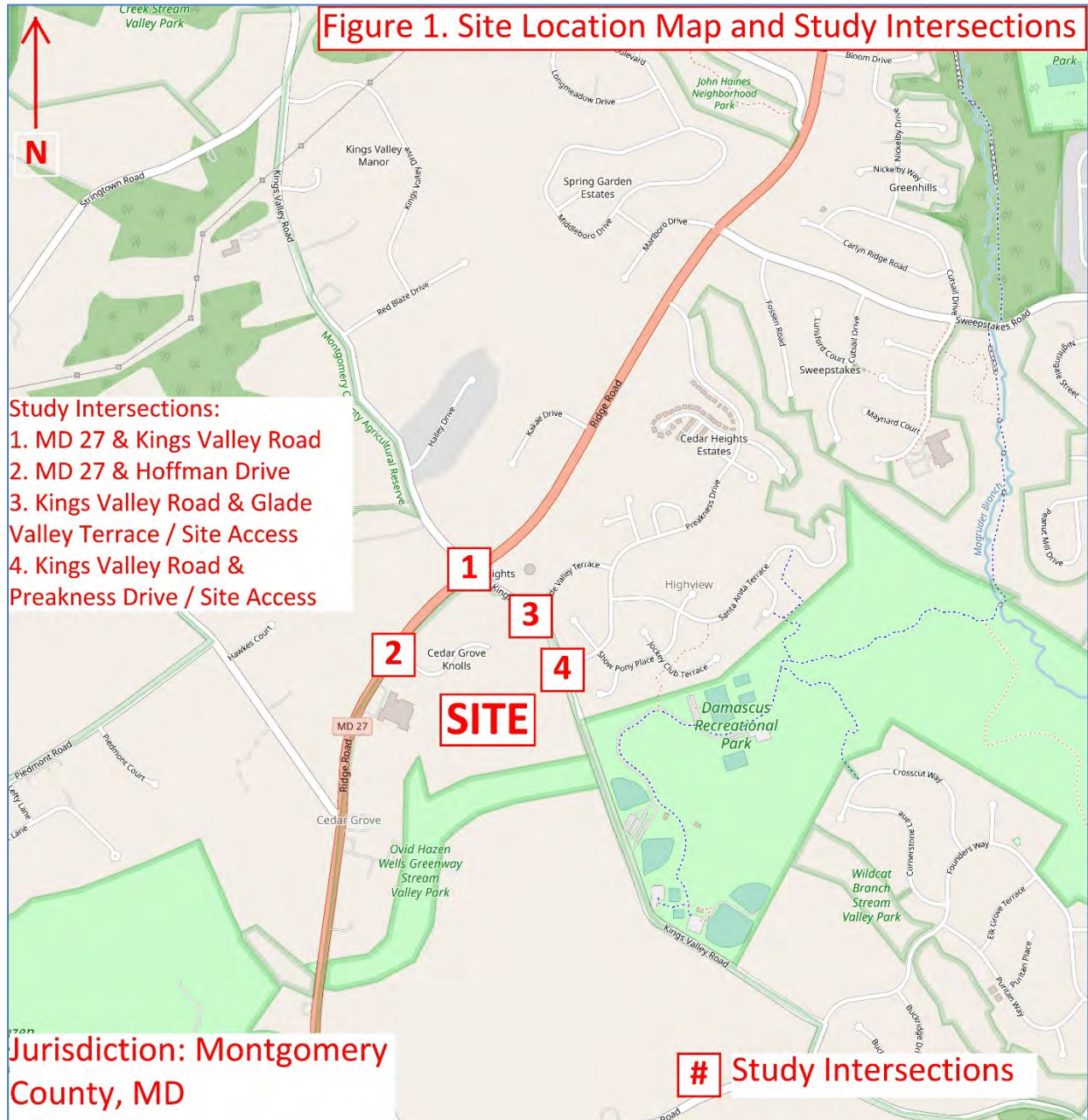


Figure 1A. Site Plan





## Study Area

Based on M-NCPPC requirements, the following intersections were identified to be included within this study area:

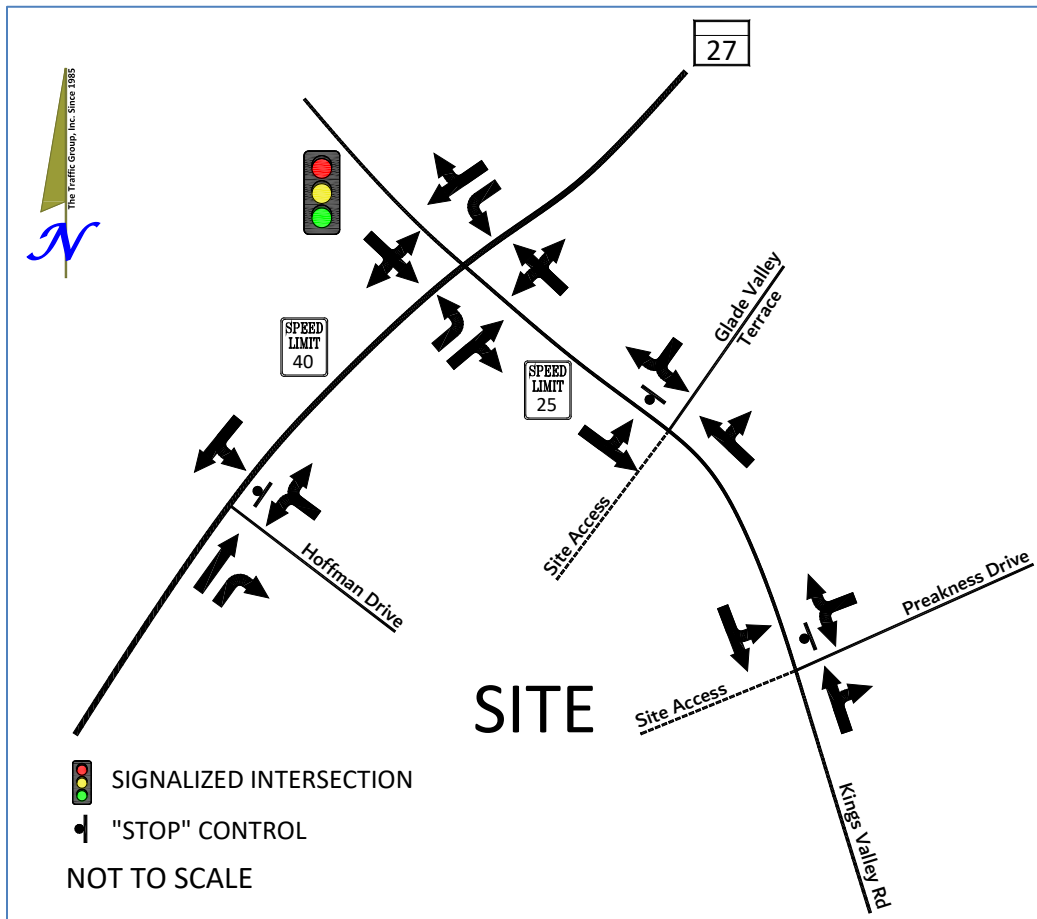
- MD 27 at Kings Valley Road
- MD 27 at Hoffman Drive
- Kings Valley Road at Glade Valley Terrace/Site Access
- Kings Valley Road at Preakness Drive/Site Access

The site is bordered by Kings Valley Road on the east, which is a two-lane north-south roadway in the vicinity of the subject property. The posted speed limit along Kings Valley Road is 25 MPH.

MD 27 is a two-lane north-south roadway. The posted speed limit along MD 27 is 40 MPH. Auxiliary left-turn lanes are provided at the major intersections in the study area.

Figure 2 was prepared to show the existing lane use and traffic control at each of the study intersections.

**Figure 2. Existing Lane Use**

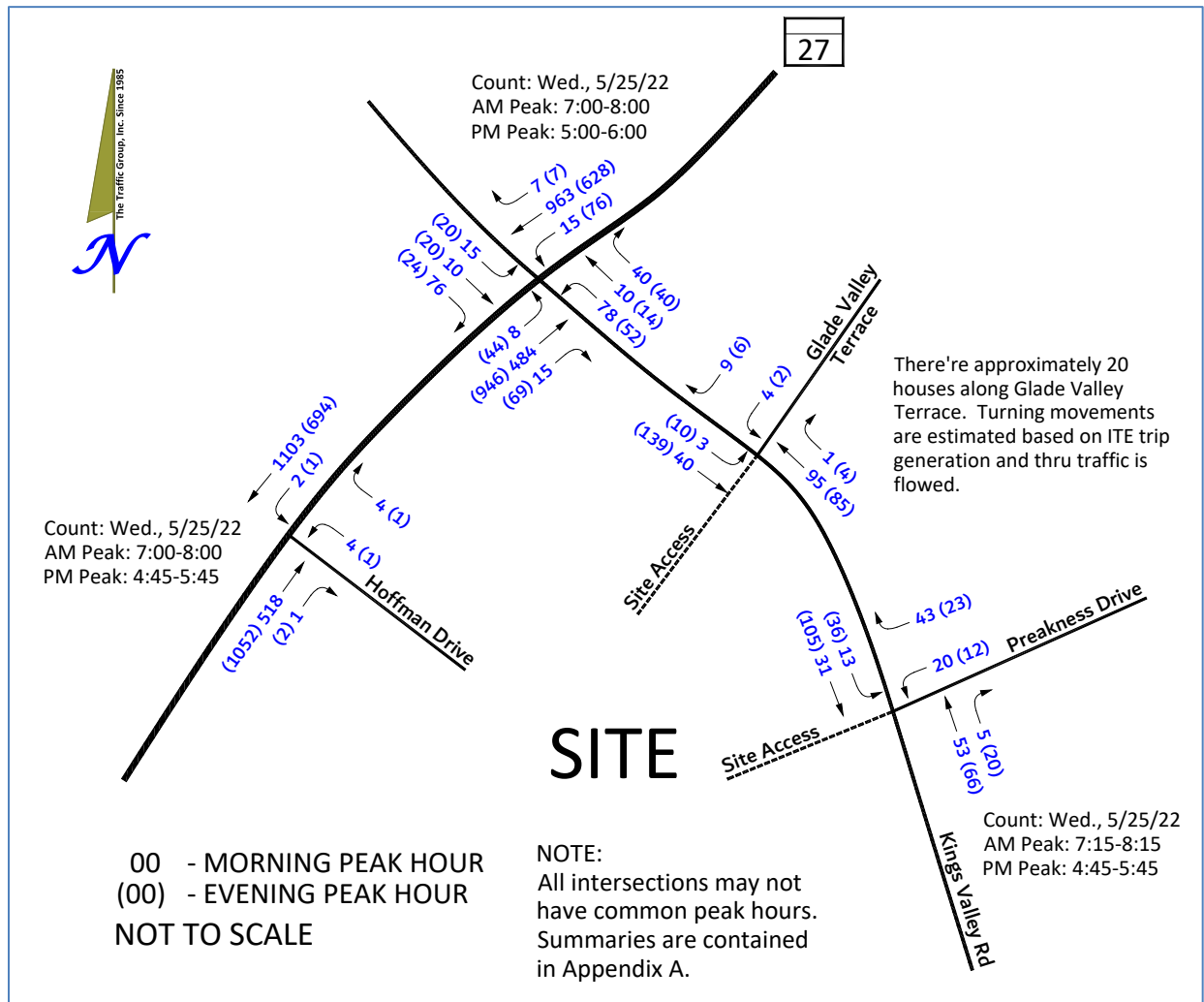


## Traffic Volumes

The Traffic Group, Inc. conducted intersection turning movement counts from 6:30–9:30 AM and 4–7 PM at the study area intersections.

The total vehicles observed during these counts are shown on the summary sheets contained in Appendix A. The existing peak hour volumes at each of the study area intersections are identified on Figure 3.

**Figure 3. Existing Peak Hour Traffic Volumes**



## **Analysis of Existing Traffic Conditions**

Intersection Capacity Analyses were conducted for each of the study area intersections and the results are shown on Table 3 using the CLV methodology. A review of Table 3 indicates that all of the existing intersections are presently operating at acceptable levels.

The 95<sup>th</sup> percentile queuing output from Synchro/SimTraffic is summarized in Table 4 and indicates that all of queues are adequately accommodated within the existing storage area. Copies of the capacity and queuing worksheets are contained in Appendix B to this report.

# MOTOR VEHICLE ADEQUACY – BACKGROUND TRAFFIC CONDITIONS

## Proposed Developments

As part of the development of the background information for this study, information was obtained from M-NCPPC relative to other approved developments planned in the vicinity of the subject site. Figure C-1 was prepared to show the location of three developments which are planned in the immediate vicinity of the subject site that would impact the adjacent roadways.

## Trip Generation for Nearby Developments

Table 1 was prepared to show the trip generation rates and the peak hour trips to be generated by the nearby developments. The trip generation information shown on Table 1 is based on the trip generation rates as outlined in the ITE Trip Generation Manual (11<sup>th</sup> Edition) and the requirements of the LATR guidelines.

The peak hour trips projected to be generated by each of the nearby developments were then distributed and assigned to the adjacent road system as shown on the Figures contained in Appendix C. Figure 4 shows the combined trips projected to be generated by all of the nearby developments. Combining these trips with the existing peak hour volumes results in the background peak hour volumes anticipated prior to the development of the subject property, and are shown on Figure 5.

## Analysis of Background Traffic Conditions

Intersection Capacity Analyses were conducted for the study area intersections and the results are shown on Table 3. A review of Table 3 indicates that all of the intersections are projected to continue to operate at acceptable levels.

The 95<sup>th</sup> percentile queuing output from Synchro/SimTraffic is summarized in Table 4 and indicates that all of queues are adequately accommodated within the existing storage area. Copies of the capacity and queuing worksheets are contained in Appendix B to this report.

**Table 1. Trip Generation for Background Developments**

<b>Trip Generation Rates - ITE 11th Edition</b>							
<b>Land Use (Source)</b>	<b>Formula/Rate</b>	<b>Directional Distribution</b>					
		<b>AM Peak Hour</b>		<b>PM Peak Hour</b>			
		<b>In</b>	<b>Out</b>	<b>In</b>	<b>Out</b>		
<b>Day Care Center (students, ITE-565)</b>							
	AM Peak Hour Trips = 0.66 x Students + 8.42	53%	47%	47%	53%		
	Ln(PM Peak Hour Trips) = 0.87 x Ln(Students) + 0.29						
<b>Single-Family Attached (ITE-215, Units)</b>							
	AM Peak Hour Trips = 0.48 x Units	31%	69%	57%	43%		
	PM Peak Hour Trips = 0.57 x Units						
<b>Senior Adult Housing - Multifamily (ITE-252, Units)</b>							
	AM Peak Hour Trips = 0.19 x Units + 0.90	34%	66%	56%	44%		
	PM Peak Hour Trips = 0.25 x Units + 0.07						
<b>Trip Generation for Background Developments</b>							
<b>Land Use</b>	<b>Size</b>	<b>AM Peak Hour</b>			<b>PM Peak Hour</b>		
		<b>In</b>	<b>Out</b>	<b>Total</b>	<b>In</b>	<b>Out</b>	<b>Total</b>
<b>1. Resurvey on Locust Level (Plan Number: 120200040)</b>							
Day Care Center	29 students	15	13	28	12	13	25
<b>2. Addition to Ray's Adventure (Plan Number: 120200030)</b>							
Single-Family Detached	3 units	1	2	3	3	1	4
	Adjusted Vehicle Trips by Policy Area (99%)	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>4</b>
<b>3. St. Anne's Episcopal Church Senior Apartments (Plan Number: 120180230)</b>							
Senior Adult Housing - Multifan	76 units	5	10	15	11	8	19
	Adjusted Vehicle Trips by Policy Area (99%)	<b>5</b>	<b>10</b>	<b>15</b>	<b>11</b>	<b>8</b>	<b>19</b>
Notes:							
1. Trip adjustment factors for Rural East Area were obtained from M-NCPPC 2022 LATR Guidelines Appendix Tables 1a.							

Figure 4. Trips Generated by Background Developments

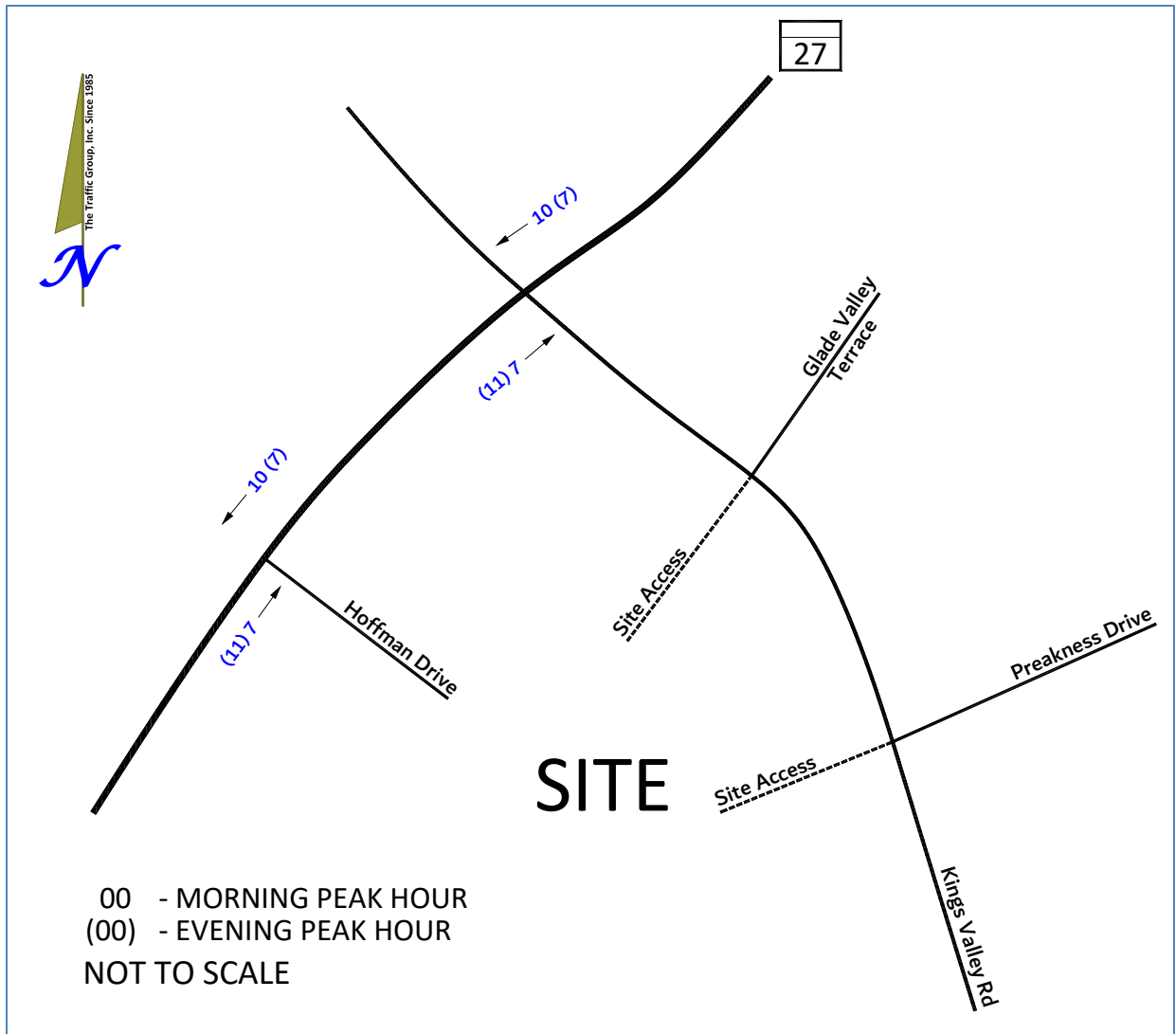
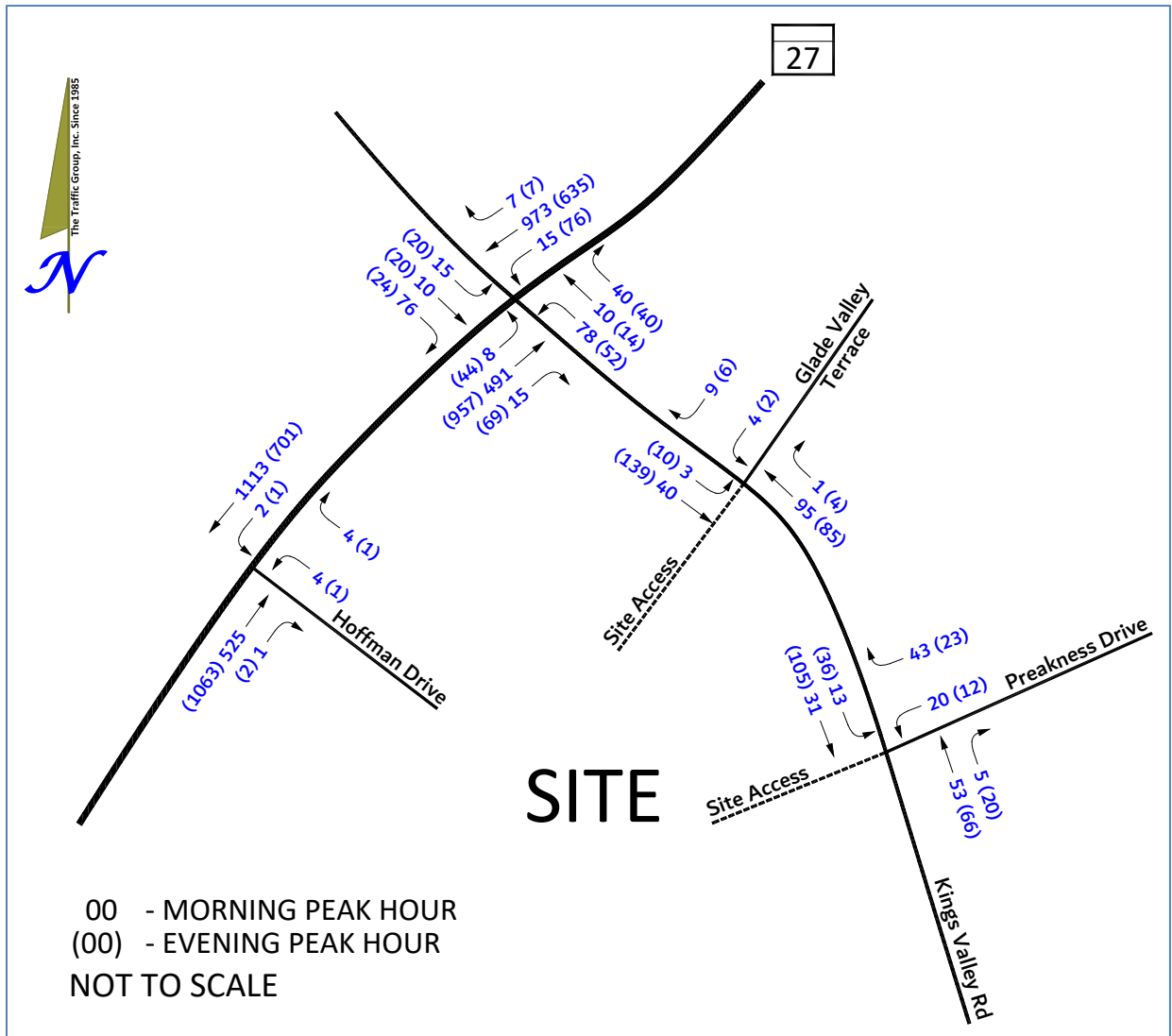


Figure 5. Background Peak Hour Traffic Volumes



# MOTOR VEHICLE ADEQUACY – TOTAL TRAFFIC CONDITIONS

## Site Information

The subject property is located in the southeast quadrant of MD 27 and Kings Valley Road. Accesses to this property are proposed along Kings Valley Road opposite to Glade Valley Terrace and to Preakness Drive. This property is presently planned to be developed with 38 single-family dwelling units and 6 townhouse units.

## Trip Generation/Distribution

In order to determine the amount of traffic projected to be generated by the subject property, we consulted the ITE Trip Generation Manual (11<sup>th</sup> Edition) to prepare Table 2, which shows the trip generation rates and the peak hour trips projected to be generated by the proposed development of the subject property. As required by M-NCPPC, adjustments were made to the vehicular traffic to quantify total person trips, auto passenger trips, transit trips, non-motorized trips, and pedestrian trips. The peak hour trips associated with each of these modes are summarized in Table 2. These trips were then distributed and assigned to the nearby roadway as shown on Figure 6. Combining the trips with the background peak hour volumes results in the total peak hour volumes as shown on Figure 7.

## Analysis of Total Traffic Conditions

Intersection Capacity Analyses were conducted for the total peak hour volumes. The results are shown on Table 3 using the CLV methodology. A review of Table 3 indicates that all of the intersections are projected to continue to operate at acceptable levels with the development of the subject site.

The 95<sup>th</sup> percentile queuing output from Synchro/SimTraffic is summarized in Table 4 and indicates that all of queues are adequately accommodated within the existing storage area. Copies of the capacity and queuing worksheets are contained in Appendix B to this report.



**Table 2. Trip Generation for Subject Site**

<b>Trip Generation Rates - ITE 11th Edition</b>							
<b>Land Use (Source)</b>	<b>Formula/Rate</b>	<b>Directional Distribution</b>					
		<b>AM Peak Hour</b>		<b>PM Peak Hour</b>			
		<b>In</b>	<b>Out</b>	<b>In</b>	<b>Out</b>		
<b>Single-Family Detached (ITE-210, Units)</b>							
	$\text{Ln(AM Peak Hour Trips)} = 0.91 \times \text{Ln(Units)} + 0.12$	26%	74%	63%	37%		
	$\text{Ln(PM Peak Hour Trips)} = 0.94 \times \text{Ln(Units)} + 0.27$						
<b>Single-Family Attached (ITE-215, Units)</b>							
	AM Peak Hour Trips = 0.48 x Units	31%	69%	57%	43%		
	PM Peak Hour Trips = 0.57 x Units						
<b>Trip Generation for Subject Site</b>							
<b>Land Use</b>	<b>Size</b>	<b>AM Peak Hour</b>			<b>PM Peak Hour</b>		
		<b>In</b>	<b>Out</b>	<b>Total</b>	<b>In</b>	<b>Out</b>	<b>Total</b>
Single-Family Detached	38 units	8	23	31	25	15	40
Townhouse	6 units	1	2	3	2	1	3
	<b>Total Trips</b>	<b>9</b>	<b>25</b>	<b>34</b>	<b>27</b>	<b>16</b>	<b>43</b>
	Adjusted Vehicle Trips by Policy Area (99%)	<b>9</b>	<b>25</b>	<b>34</b>	<b>27</b>	<b>16</b>	<b>43</b>
<b>Calculations for Multimodal Trips</b>							
	Total Person Trips (Vehicle Trips / 64%)			<b>53</b>			<b>67</b>
	Auto Passenger Trips (Person Trips x 28.2%)			<b>15</b>			<b>19</b>
	Transit Trips (Person Trips x 2.6%)			<b>2</b>			<b>2</b>
	Non-Motorized Trips (Person Trips x 5.3%)			<b>3</b>			<b>4</b>
	Pedestrian Trips (Transit + Non-Motorized Trips)			<b>5</b>			<b>6</b>
Notes:							
1. Trip adjustment factors and mode split percentages for Rural East Area were obtained from M-NCPPC 2022 LATR Guidelines Appendix Tables 1a & 1b.							

Figure 6. Trip Assignment for Subject Site

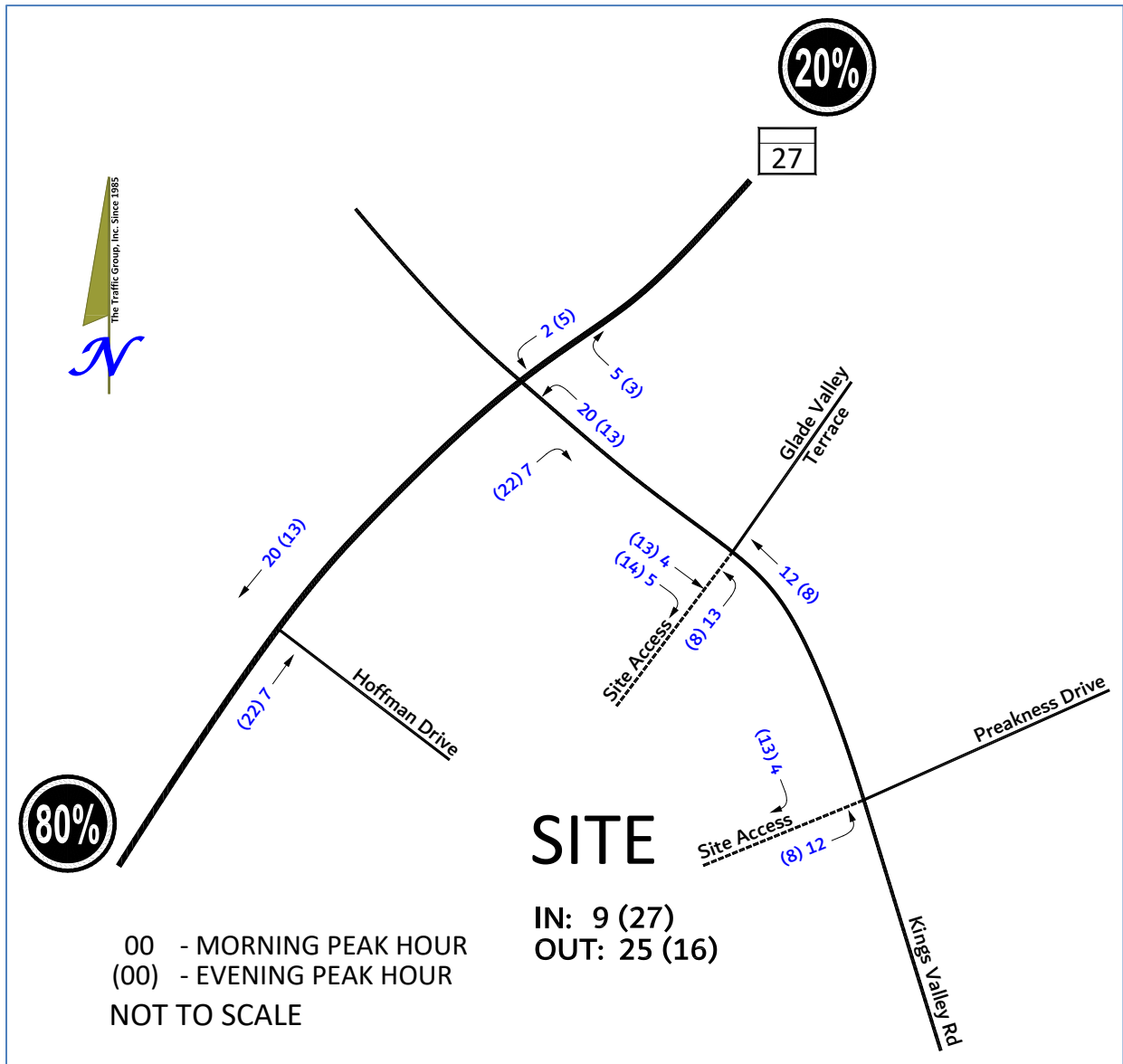
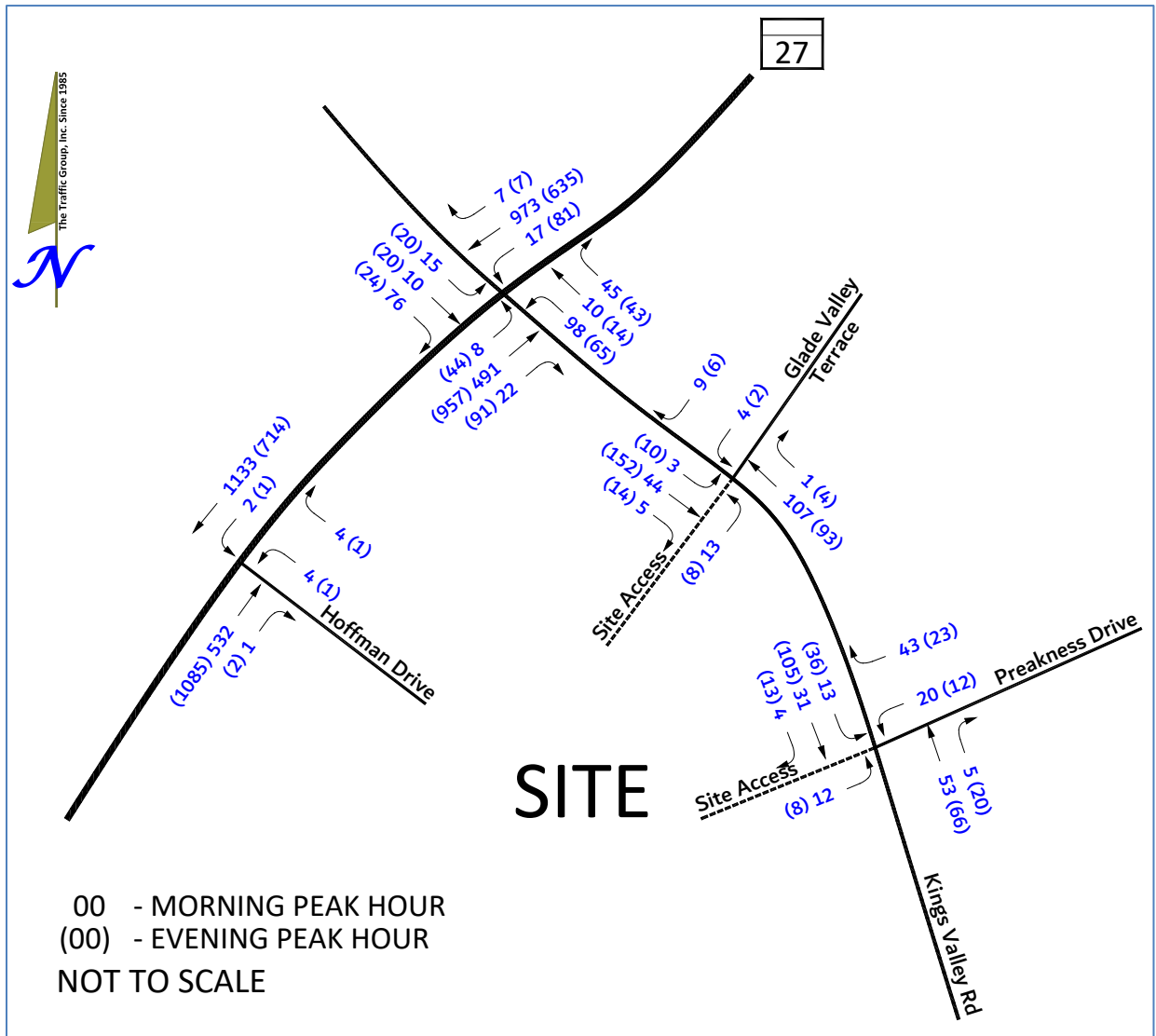


Figure 7. Total Peak Hour Traffic Volumes



**Table 3. Results of Intersection Capacity Analysis (CLV)**

**CLV Analysis**

		Existing Traffic	Background Traffic	Total Traffic
<b>Morning Peak Hour Traffic</b>		CLV	CLV	CLV
1. MD 27 & Kings Valley Road	1350	1157	1167	1187
2. MD 27 & Hoffman Drive	1350	1113	1123	1143
3. Kings Valley Road & Glade Valley Terrace / Site Access	1350	112	112	137
4. Kings Valley Road & Preakness Drive / Site Access	1350	134	134	146
<b>Evening Peak Hour Traffic</b>				
1. MD 27 & Kings Valley Road	1350	1217	1228	1271
2. MD 27 & Hoffman Drive	1350	1055	1066	1088
3. Kings Valley Road & Glade Valley Terrace / Site Access	1350	157	157	192
4. Kings Valley Road & Preakness Drive / Site Access	1350	176	176	197

**Table 4. Results of Intersection Queuing Analysis (SimTraffic)**

SimTraffic	Existing Traffic	Background Traffic	Total Traffic	Available Storage Length (ft.)
Morning Peak Hour Traffic	95% Percentile Queue Length (ft.)			
<b>1. MD 27 &amp; Kings Valley Road</b>				
EB Kings Valley Road approach:	94	103	95	>500
WB Kings Valley Road approach:	127	126	153	>500
NB MD 27 left turn:	<25	30	<25	125
NB MD 27 thru/right:	137	163	172	>1000
SB MD 27 left turn:	36	35	26	150
SB MD 27 thru/right:	252	263	263	>1000
<b>2. MD 27 &amp; Hoffman Drive</b>				
WB Hoffman Drive approach:	<25	<25	<25	300
SB MD 27 left turn:	<25	<25	<25	>500
<b>3. Kings Valley Road &amp; Glade Valley Terrace</b>				
EB Kings Valley Road left turn:	<25	<25	<25	>500
NB Site Access approach:			34	new
SB Glade Valley Terrace approach:	35	36	36	>500
<b>4. Kings Valley Road &amp; Preakness Drive / Site Access</b>				
EB Kings Valley Road left turn:	<25	<25	<25	>500
WB Kings Valley Road left turn:			<25	>500
NB Site Access approach:			32	new
SB Preakness Drive approach:	49	50	49	300
Evening Peak Hour Traffic				
<b>1. MD 27 &amp; Kings Valley Road</b>				
EB Kings Valley Road approach:	77	75	84	>500
WB Kings Valley Road approach:	114	114	148	>500
NB MD 27 left turn:	95	88	84	125
NB MD 27 thru/right:	361	399	438	>1000
SB MD 27 left turn:	91	86	84	150
SB MD 27 thru/right:	200	208	207	>1000
<b>2. MD 27 &amp; Hoffman Drive</b>				
WB Hoffman Drive approach:	<25	<25	<25	300
SB MD 27 left turn:	<25	27	<25	>500
<b>3. Kings Valley Road &amp; Glade Valley Terrace</b>				
EB Kings Valley Road left turn:	<25	<25	<25	>500
NB Site Access approach:			30	new
SB Glade Valley Terrace approach:	31	31	31	>500
<b>4. Kings Valley Road &amp; Preakness Drive / Site Access</b>				
EB Kings Valley Road left turn:	<25	<25	<25	>500
WB Kings Valley Road left turn:			<25	>500
NB Site Access approach:			<25	new
SB Preakness Drive approach:	44	45	45	300

## PEDESTRIAN SYSTEM ADEQUACY

The Pedestrian System Adequacy Test is required for any site that generates 50 or more peak hour person trips. This test consists of three separate components:

- Pedestrian Level of Comfort
- Street lighting
- ADA compliance

The scope of the Pedestrian System Adequacy Test varies by the number of peak hour person trips generated and the specific policy area. Table 5 shows the requirements based on the site characteristics.

**Table 5. Pedestrian Adequacy**

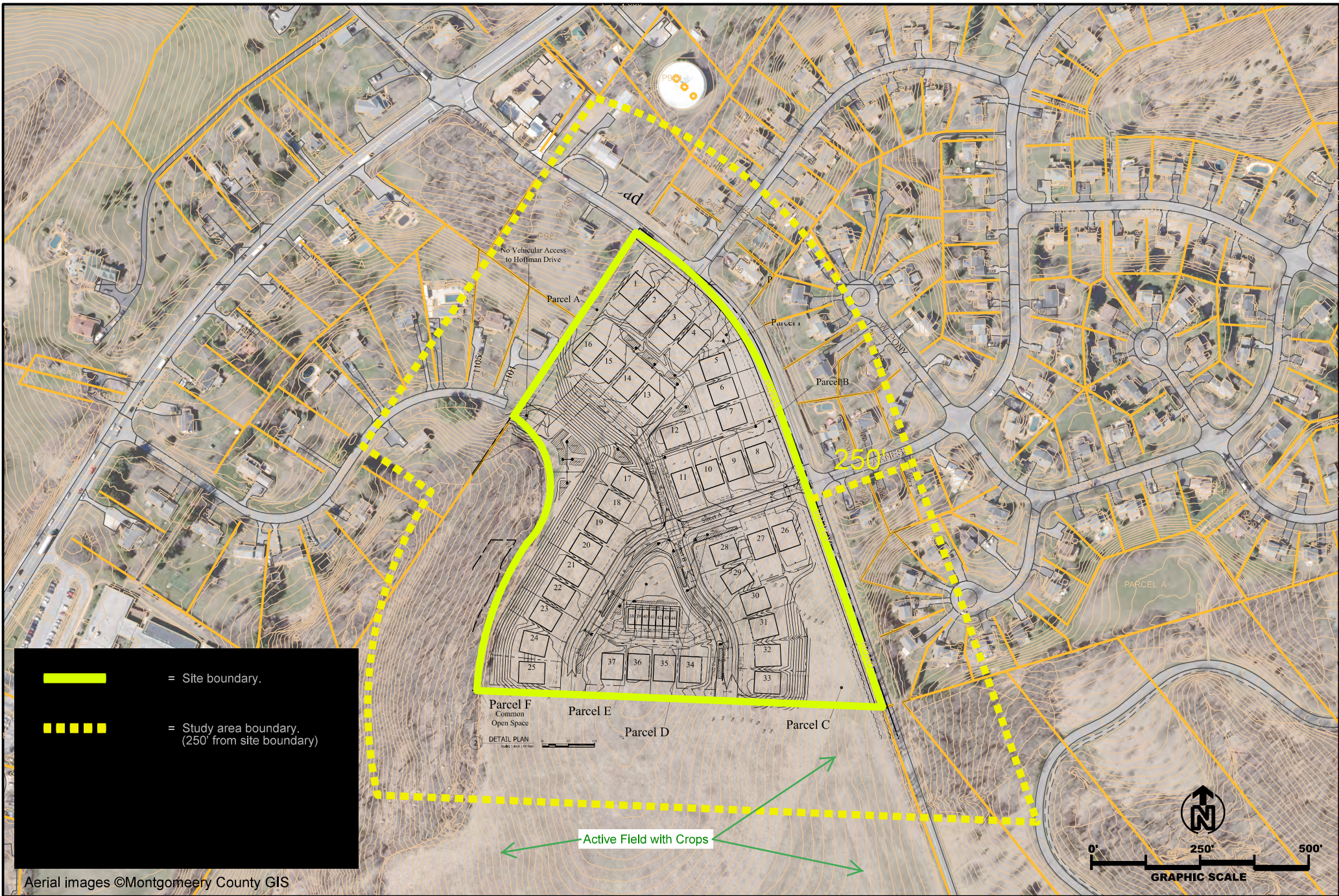
Peak-Hour Person Trips Generated	Red and Orange Policy Area Walkshed*	Yellow and Green Policy Area Walkshed*
50 – 99	400'	250'
100 – 199	750'	400'
200 – 349	900'	500'
350 or more	1,000'	600'

\* The maximum required length of sidewalk and streetlighting improvements beyond the frontage is 4 times the appropriate value in this column. The maximum span required for ADA improvements beyond the frontage is equal to the appropriate value in this column.

Since the Tregoning site is located within a Green Policy Area and will generate between 50 and 99 peak hour person trips, the Pedestrian System Adequacy Test is limited to 250 ft. Figure 8 provides an overview showing the 250-ft distance from the site.

### Pedestrian Level of Comfort (PLOC)

In order for a site to achieve adequacy, either “somewhat comfortable” (PLOC-2) or “very comfortable” (PLOC-1) scores must be achieved at streets and intersections for roads classified as Primary Residential or higher within the 250-ft defined walk shed. M-NCPPC has developed a databased of PLOC which is available through MC Atlas. Output from this database serves at the base map for this analysis. Figure 9 contains a summary of the PLOC within the walk shed.



Aerial images ©Montgomery County GIS

Montgomery County, Maryland

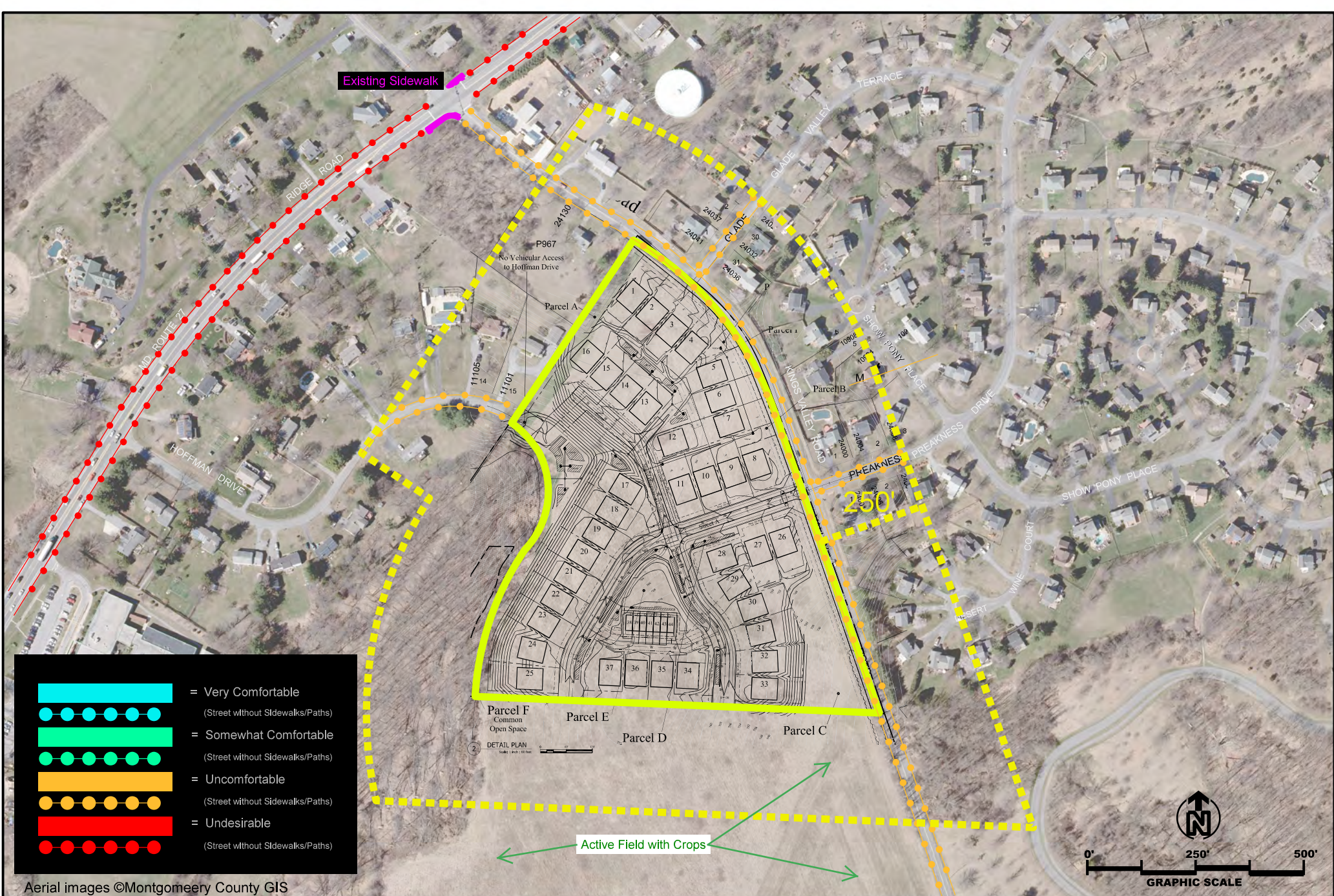
**FIGURE 8**

# TREGONING

## OVERVIEW MAP

Local Area Transportation Review





Aerial images ©Montgomery County GIS

Montgomery County, Maryland

# TREGONING

Local Area Transportation Review

**FIGURE 9**

## Pedestrian Level Of Comfort





All of the adjacent roadways are below the threshold. They include:

### **Uncomfortable**

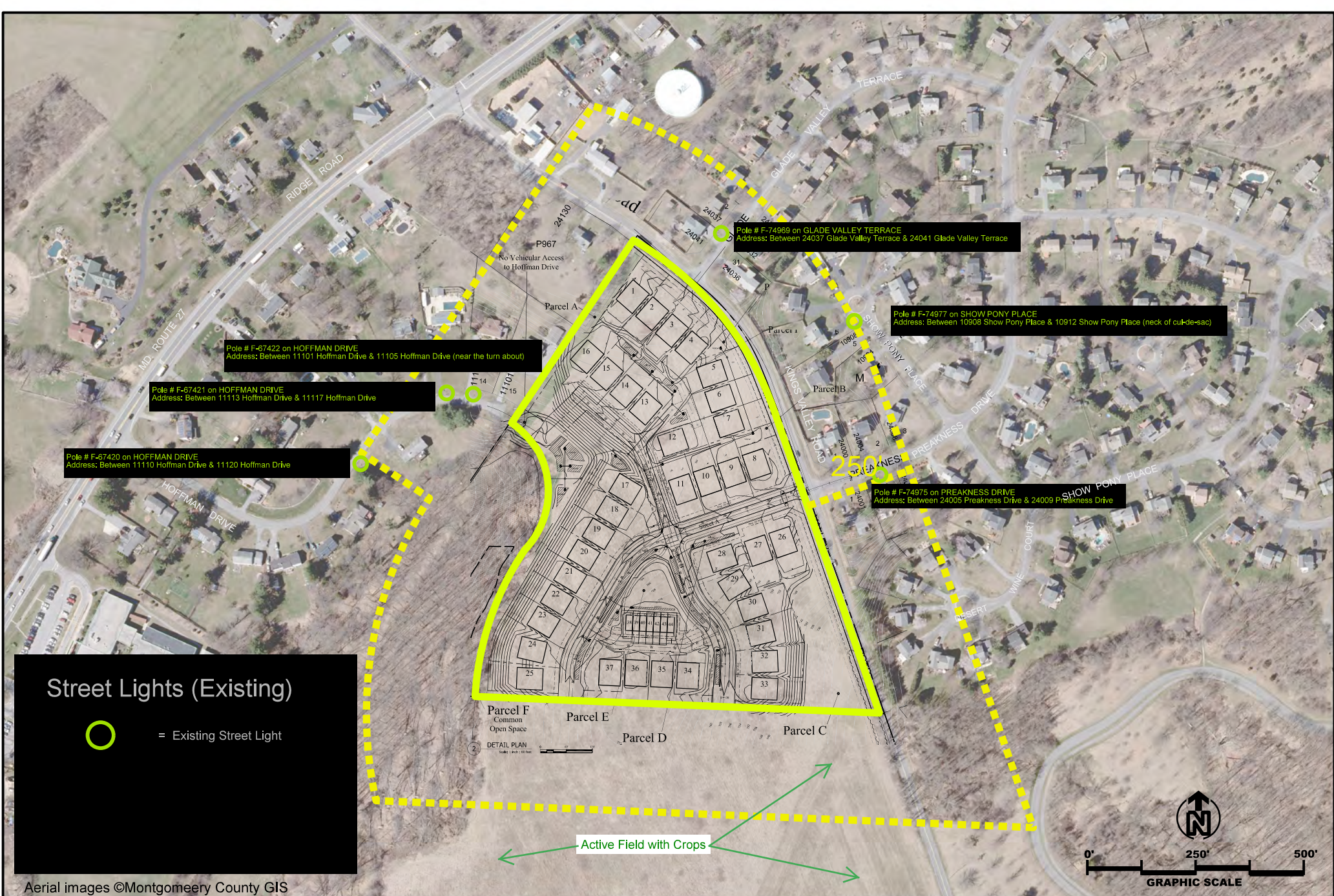
- Kings Valley Road – No sidewalk or shoulder on either side of this segment. The addition of a sidewalk or shoulder in this location would likely not be feasible because of limited right-of-way and an active farming operation that grows crops right up to the edge of the roadbed.
- Hoffman Drive – No sidewalk or shoulder on either side of this segment. It's within a residential neighborhood. The addition of a sidewalk or shoulder in this location would likely not be feasible because of limited right-of-way.
- Glade Valley Terrace – No sidewalk or shoulder on either side of this segment. It's within a residential neighborhood. The addition of a sidewalk or shoulder in this location would likely not be feasible because of limited right-of-way.
- Preakness Drive – No sidewalk or shoulder on either side of this segment. It's within a residential neighborhood. The addition of a sidewalk or shoulder in this location would likely not be feasible because of limited right-of-way.

### **Street Lighting**

As shown within the MCDOT Street Light Index, there are approximately five streetlights within the study area. Figure 10 details the locations of all street lighting. The lighting is noted as functional with no service calls placed for any existing installations.

### **ADA Compliance**

There is no existing sidewalk or shoulder within the walk shed, so ADA compliance was not reviewed within the study area. Figure 11 shows no ADA treatments within the study area.



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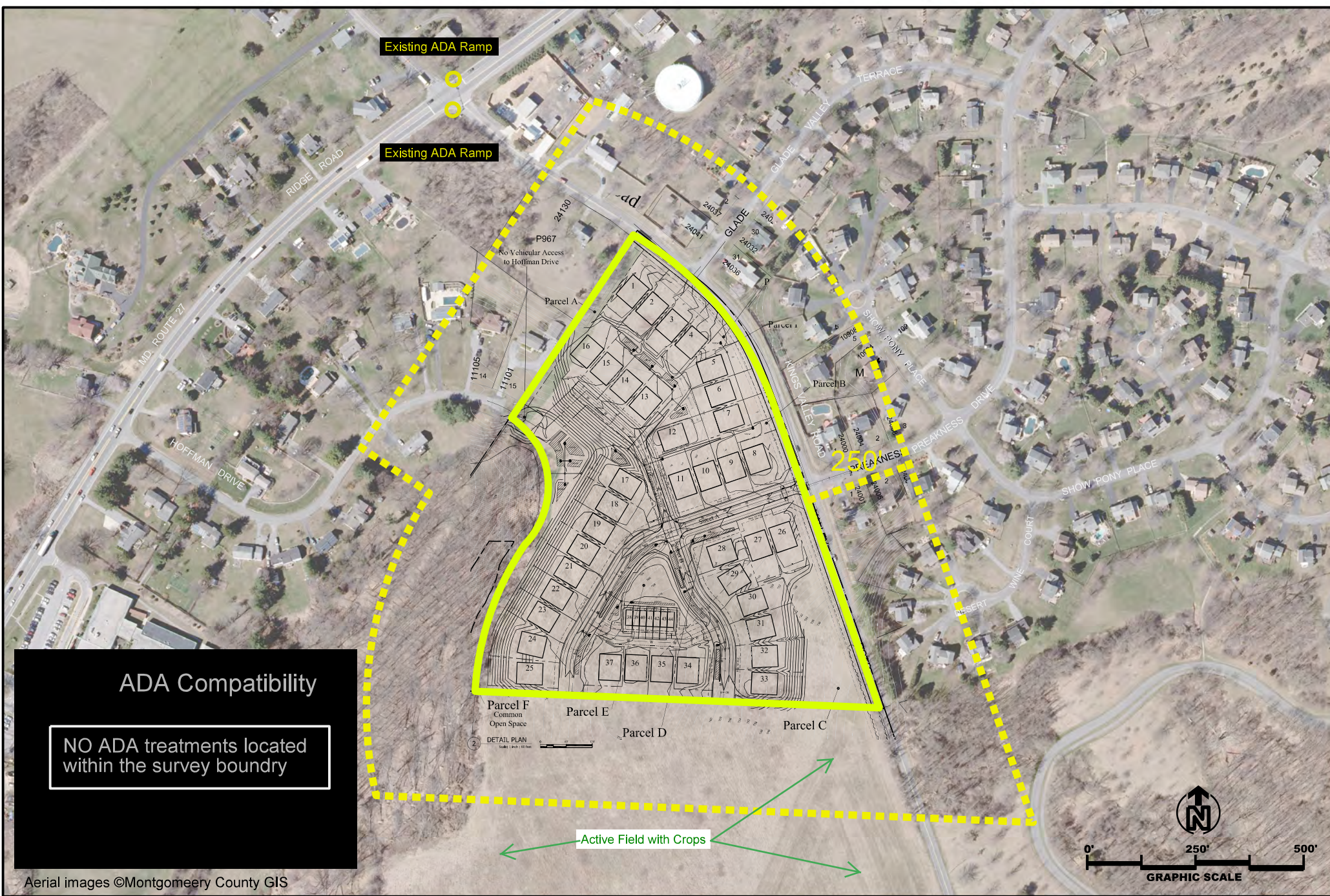
**TREGONING**

Local Area Transportation Review

**FIGURE 10**

**Streetlight Inventory**





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**FIGURE 11**

**TREGONING**

Local Area Transportation Review

**ADA Compatibility**

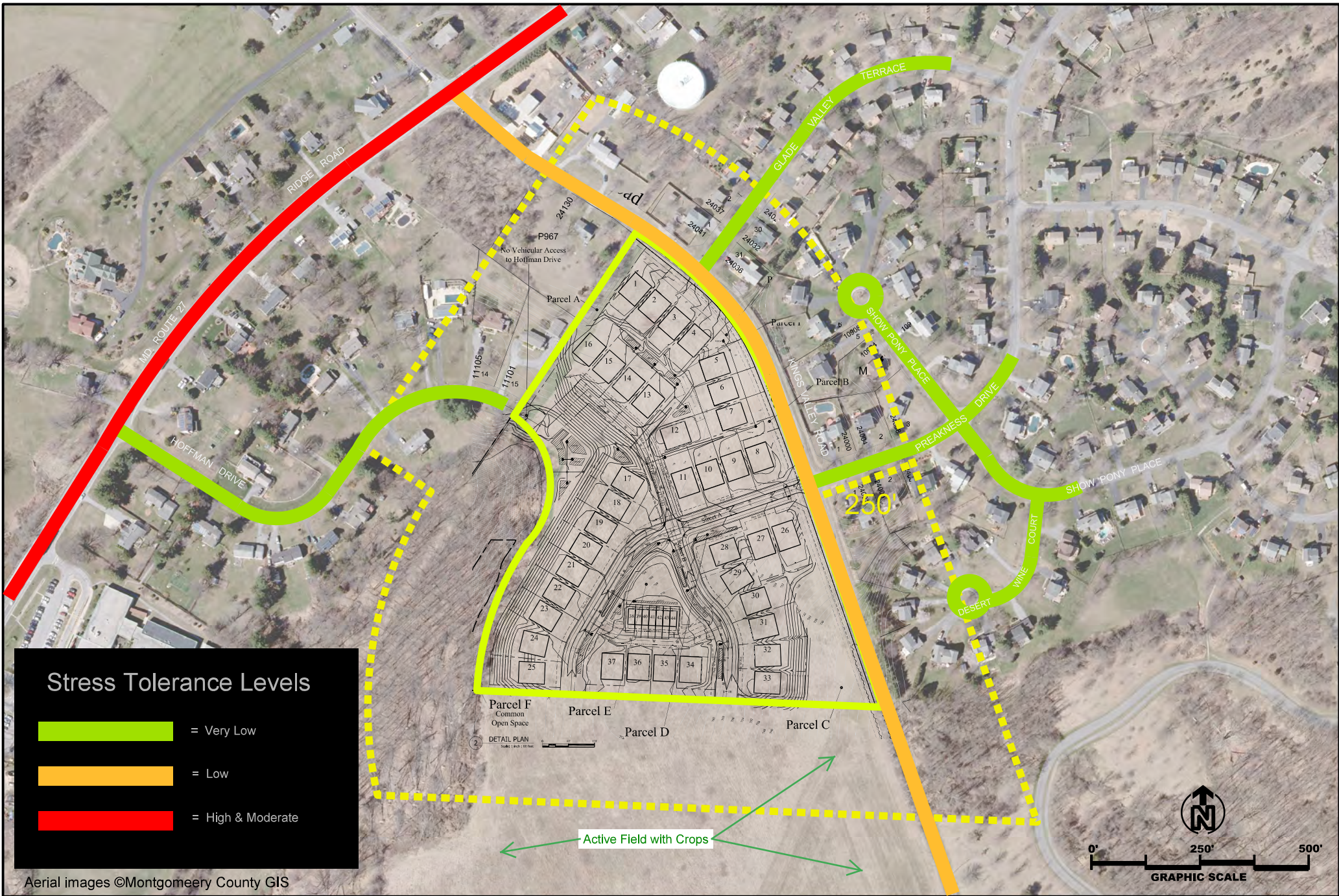


## **BICYCLE SYSTEM ADEQUACY**

A low Level of Traffic Stress (LTS-2) is required to achieve bicycle system adequacy. The bicycle test is required for any site generating more than 50 peak hour person trips and considers different elements of the road network and adjacent features, including traffic volumes, speeds, road classification, presence of side paths, separated bike lanes, and other components.

The Tregoning site will generate between 50 and 99 peak hour trips and is situated within a Green Policy Area. Therefore, the 250-ft distance is applicable. M-NCPPC has developed a database of bicycle stress which is available through MC Atlas. The output from the database is used as the base map for this analysis.

As shown within Figure 12, Kings Valley Road features low Level of Traffic Stress and all remaining road segments are within the very low threshold.



**Stress Tolerance Levels**

- = Very Low
- = Low
- = High & Moderate

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Montgomery County, Maryland

**FIGURE 12**  
**Bicycle Level Of Comfort**



## VISION ZERO STATEMENT

This section of the LATR assesses the High Injury Network (HIN) and overall safety issues. In addition, traffic speeds are reviewed on the key roadways within the study area. The site access is also discussed in the sections below.

### High Injury Network

M-NCPPC maintains a database of corridors that are considered part of the HIN. Roadways meet this threshold if there are five or more serious or fatal crashes and one or more collisions per mile per year. The HIN database was reviewed and there are no segments within the study area that are included. Figure 13 shows the HIN mapping.

### Crash Data

Within the study area, a total of two crashes were reported since 2018. Figure 13 also shows the relative location within the study area. Both crashes were vehicle only, minor/no injury.

### Speed Data

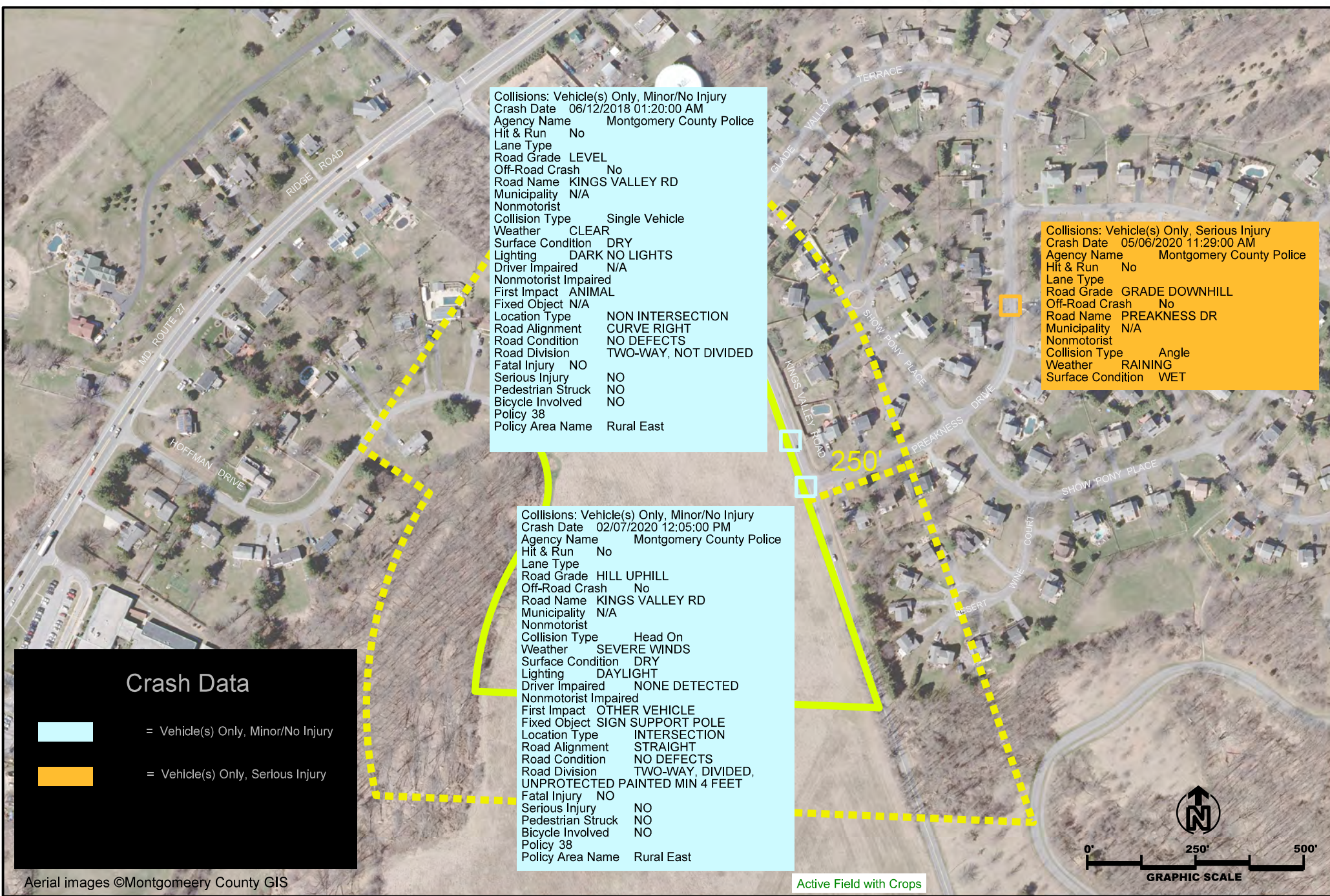
A total of 24-hour speed studies were undertaken within the study area along Kings Valley Road. Table 6 details the measured 85<sup>th</sup> percentile speeds and the posted speed limits. As shown within the table, the measured 85<sup>th</sup> percentile speed was above the posted speed limit. Complete speed study data can be found in Appendix A.

**Table 6. Speed Data Summary**

Location	Posted Speed	Measured 85 <sup>th</sup> Percentile Speed
Kings Valley Road	25 mph	38 mph northbound, 38 mph southbound

### Site Access

Vehicular access to the Tregoning site will be provided at Kings Valley Road opposite to Glade Valley Terrace and to Preakness Drive.



Collisions: Vehicle(s) Only, Minor/No Injury  
 Crash Date 06/12/2018 01:20:00 AM  
 Agency Name Montgomery County Police  
 Hit & Run No  
 Lane Type  
 Road Grade LEVEL  
 Off-Road Crash No  
 Road Name KINGS VALLEY RD  
 Municipality N/A  
 Nonmotorist  
 Collision Type Single Vehicle  
 Weather CLEAR  
 Surface Condition DRY  
 Lighting DARK NO LIGHTS  
 Driver Impaired N/A  
 Nonmotorist Impaired  
 First Impact ANIMAL  
 Fixed Object N/A  
 Location Type NON INTERSECTION  
 Road Alignment CURVE RIGHT  
 Road Condition NO DEFECTS  
 Road Division TWO-WAY, NOT DIVIDED  
 Fatal Injury NO  
 Serious Injury NO  
 Pedestrian Struck NO  
 Bicycle Involved NO  
 Policy 38  
 Policy Area Name Rural East

Collisions: Vehicle(s) Only, Serious Injury  
 Crash Date 05/06/2020 11:29:00 AM  
 Agency Name Montgomery County Police  
 Hit & Run No  
 Lane Type  
 Road Grade GRADE DOWNHILL  
 Off-Road Crash No  
 Road Name PREAKNESS DR  
 Municipality N/A  
 Nonmotorist  
 Collision Type Angle  
 Weather RAINING  
 Surface Condition WET

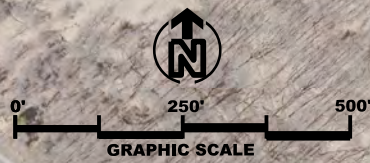
Collisions: Vehicle(s) Only, Minor/No Injury  
 Crash Date 02/07/2020 12:05:00 PM  
 Agency Name Montgomery County Police  
 Hit & Run No  
 Lane Type  
 Road Grade HILL UPHILL  
 Off-Road Crash No  
 Road Name KINGS VALLEY RD  
 Municipality N/A  
 Nonmotorist  
 Collision Type Head On  
 Weather SEVERE WINDS  
 Surface Condition DRY  
 Lighting DAYLIGHT  
 Driver Impaired NONE DETECTED  
 Nonmotorist Impaired  
 First Impact OTHER VEHICLE  
 Fixed Object SIGN SUPPORT POLE  
 Location Type INTERSECTION  
 Road Alignment STRAIGHT  
 Road Condition NO DEFECTS  
 Road Division TWO-WAY, DIVIDED,  
 UNPROTECTED PAINTED MIN 4 FEET  
 Fatal Injury NO  
 Serious Injury NO  
 Pedestrian Struck NO  
 Bicycle Involved NO  
 Policy 38  
 Policy Area Name Rural East

### Crash Data

= Vehicle(s) Only, Minor/No Injury  
 = Vehicle(s) Only, Serious Injury

Aerial images ©Montgomery County GIS

Active Field with Crops



# RESULTS, RECOMMENDATIONS, AND CONCLUSIONS

## Study Purpose

The primary purpose of this LATR is to determine what impact the development of this site will have on the adjacent roadways.

## Study Criteria/Methodology

This Traffic Impact Analysis has been prepared in accordance with the current requirements of the Subdivision Staging Policy and the LATR Guidelines for the M-NCPPC. This property is located in the Rural East Policy Area, which is in a Green Policy Area.

The trip generation determinations made as part of this report are based on the ITE Trip Generation Manual (11<sup>th</sup> Edition) and the requirements of the LATR guidelines.

A Scoping Agreement was prepared for this proposed development, and a copy of this agreement is contained in Appendix A. This agreement was approved by the Transportation Planning Staff with minor adjustments. These adjustments are also outlined in Appendix A. As a result of the Scoping Agreement and trip generation determination for the project, it was determined that the project would generate 67 new peak hour person trips and therefore requires a Motor Vehicle Adequacy Analysis. In addition, it was determined that the subject site would generate sufficient pedestrian activity to require a Pedestrian and Bicycle System Adequacy Test for the subject site. A Vision Zero statement is also provided. Details on the limits of each of these analyses are described in the respective section of the LATR.

The Tregoning Site is situated within the Rural East Policy Area, which is classified as green. For sites within the Green Policy Areas, the CLV level of service applies to study intersections with a CLV of 1,350 or less and the HCM delay-based level of service standard applies to study intersections with a CLV of more than 1,350.

## Summary of Findings and Recommendations

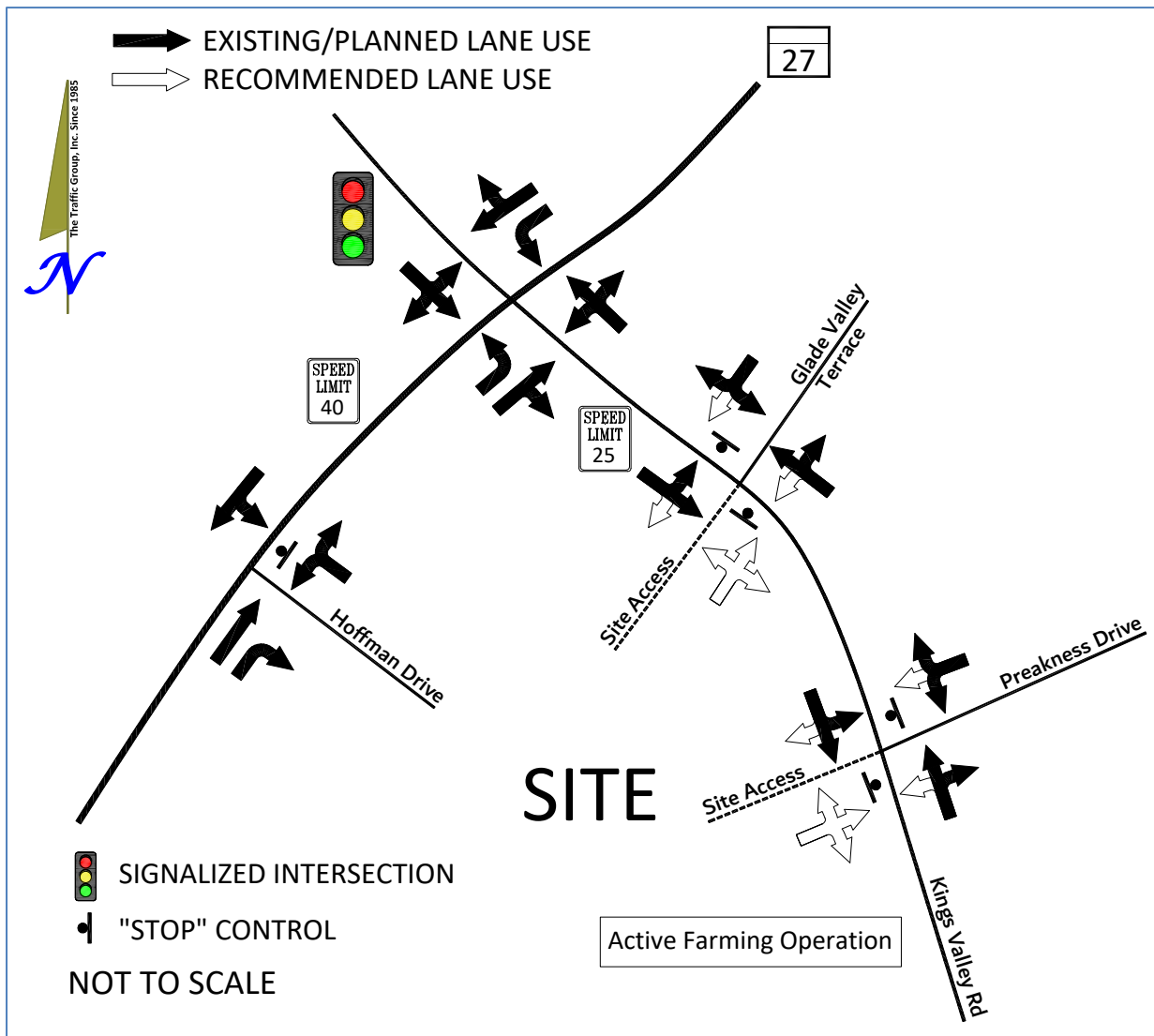
The results of our analysis have indicated that the development of the property as proposed will not have an adverse effect on the nearby road system and that the study intersections are projected to continue to operate at acceptable levels of service.

Pedestrian, bicycle, and safety analyses were also conducted within the defined study area. Several items were noted as areas of improvement. Given constraints noted in this report on adjacent properties and limited impact of improvements, Applicant should pay into LATR using published proportionality guidelines.

Figure 14 shows the recommended future lane use.



Figure 14. Recommended Future Lane Use



Due to the active farming operation and limited (or no) right-of-way availability, it is suggested that the applicant pay the required amount into the LATR fund for off-site improvements.

## **APPENDIX A**

### **Correspondence, Intersection Turning Movement Counts, and Aerial Photos**





**MONTGOMERY COUNTY PLANNING DEPARTMENT**  
 THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

**Local Area Transportation Review**

**TRANSPORTATION IMPACT STUDY SCOPE OF WORK AGREEMENT**

September 2021

<p>Scoping Approval - Prior to initiating a Local Area Transportation Review study or supplemental traffic study, scoping <i>must be approved</i> by relevant agencies, including the Planning Department, the Montgomery County Department of Transportation, and the State Highway Administration (where relevant). It is the responsibility of the Applicant to obtain approval, which is demonstrated below via signature or electronic signature of the relevant agency representatives. Generally, the Applicant should anticipate a turnaround time of ten (10) business days for form review. Substantially large projects may require additional time and/or may warrant a scoping meeting.</p>			
<p>Montgomery County Planning Department          Name (print): _____ Signature: _____ Date: _____</p>			
<p>Montgomery County Department of Transportation          Name (print): _____ Signature: _____ Date: _____</p>			
<p>State Highway Administration (where relevant)          Name (print): _____ Signature: _____ Date: _____</p>			
<p>Applicant Contact Information</p>			
<p>Transportation Consultant          (company, contact name, email, and phone number)</p>			
<p>Name of Applicant / Developer</p>			
<p>Project Information <i>Include Tables/Graphics, As Needed</i></p>			
<p>Project Name          (include plan no. if known)</p>			
<p>Project Location          (include address if known)</p>			
<p>Policy Area(s)          (See Growth &amp; Infrastructure Policy Area map T1<sup>1</sup>)</p>		<p>Master Plan(s) / Sector Plan Area(s)</p>	

<sup>1</sup> <https://montgomeryplanning.org/wp-content/uploads/2020/11/20210101-Text-of-the-2020-2024-Growth-and-Infrastructure-Policy-with-Maps.pdf>

Application Type(s)	<input type="checkbox"/> Preliminary Plan	<input type="checkbox"/> Site Plan	<input type="checkbox"/> Sketch/Concept/Pre-Preliminary (Optional)	<input type="checkbox"/> Amendment
	<input type="checkbox"/> Conditional Use (formerly special exception)	<input type="checkbox"/> Local Map Amendment	<input type="checkbox"/> APF at Building Permit	<input type="checkbox"/> Other:
Project Description & Previous Approvals  (proposed land uses, zoning, no. of units, square footage, construction phasing, prior approvals and proposals, existing uses, site operations, year built, status of Adequate Public Facilities [APF], other relevant info)				
1.Site Access  (proposed access location(s), existing/adjacent/opposite curb cuts, interparcel connections, access configurations and restrictions, internal circulation, private roads, parking/loading areas, other relevant info)				
2.Transportation Analysis Requirement	<input type="checkbox"/> Transportation Impact Study Generates <u>50 or more</u> total weekday peak-hour person trips (vehicular, transit, bicycle, and/or pedestrian) with no reductions other than a credit for existing developments over 12 years old, <u>AND</u> is outside of the White Flint and White Oak Policy Areas. Fill out remainder of this form and include in transportation impact study appendix.		<input type="checkbox"/> Transportation Impact Study Exemption Statement Generates <u>49 or fewer</u> total weekday peak-hour person trips (vehicular, transit, bicycle, and/or pedestrian) with no reductions other than a credit for existing developments over 12 years old, <u>OR</u> within White Flint and White Oak Policy Areas.	
3.Project-based Transportation Demand Management Plan Required? (see Chapter 42, Articles I and II)	<input type="checkbox"/> No	<input type="checkbox"/> Yes (In Transportation Management District [TMD])	<input type="checkbox"/> Amend Existing Project-based TDM Plan	
4.Established Transportation Management District	<input type="checkbox"/> No	<input type="checkbox"/> Yes TMD Name: _____		

(TMD)?		
Transportation Impact Study Assumptions <i>Include Tables/Graphics, As Needed</i>		
5. Study Years / Phases	Existing Year:	Phases / Build-out Year(s):
6. Study Periods	<input type="checkbox"/> AM <input type="checkbox"/> PM <input type="checkbox"/> Mid-day <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday <input type="checkbox"/> Other: _____	
<b>7. Study Intersections</b> (For projects generating 50 or more weekday peak-hour person trips, list all signalized & significant unsignalized intersections, and site driveways traffic counts must be collected within 12 months of completed and accepted application)	# of tiers of intersections to study (refer to current LATR Guidelines): _____ <i>For the purpose of determining the number of tiers of study intersections, trip calculation for the subject site should also include nearby unbuilt properties in common ownership. No trip reductions should be taken in this calculation other than a credit for existing developments over 12 years old.</i>	
	1)	7)
	2)	8)
	3)	9)
	4)	10)
	5)	11)
	6)	attach more rows if necessary
<b>8. Trip Generation</b>  (Clearly cite sources and methodology including use of ITE average trip rates vs. equations, ITE land use code(s); include trip generation for existing site, current approvals, proposed uses, and net changes. Show calculations in the cells to the right of this box.)	<b>Vehicle Trips* (AM)</b> (Auto Driver)	<b>Total Person Trips* (AM)</b>

	Vehicle Trips* (PM) (Auto Driver)	Total Person Trips* (PM)
	<p><i>* Only required if total peak hour person trips are 50 or more in either the AM or PM peak hour. Sum of all vehicle, transit, and non-motorized trips shall be the equivalent of total person trips. . Show all calculations for vehicle and person trips in the cells immediately above.</i></p>	
9. Multi-modal Intersection Counts	<p>Are new counts being collected in support of this study?*</p> <p>Are historical counts being used in support of this study?</p> <p><i>*Refer to the LATR Guidelines for the procedures pertaining to the collection of multi-modal (i.e., motor vehicle, bicycle and pedestrian) intersection counts. Generally, counts are acceptable when they are less than one year old at the time a transportation study is submitted.</i></p>	
10. Trip Reductions  (include justification and supporting documentation for internal capture, pass-by, diverted, Transportation Demand Management)		
11. Trip Distribution %  (include a map of the proposed project in addition to a list or table)	<input type="checkbox"/> A map is attached.	

<p><b>12. Pipeline Developments to be considered as background traffic</b></p> <p>(include name, plan #, land uses, and sizes for approved but unbuilt developments or concurrently pending applications; info can be obtained from the M-NCPPC Pipeline website: - website is updated quarterly)</p>	
<p><b>13. Pipeline Transportation Projects to be considered as background condition</b></p> <p>(fully funded for construction in County Capital Improvement Program, State Consolidated Transportation Program, developer projects, etc. within the next 6 years)</p>	
<p><b>14. Vision Zero Statement</b></p> <p>(Include maps depicting the scope of the various Vision Zero Statement scoping requirements.)</p>	<ul style="list-style-type: none"> <li>• <b>Trigger:</b> All LATR studies for a site that generates 50 or more weekday peak-hour person trips must develop a Vision Zero Statement.</li> <li>• <b>Requirements:</b> The Vision Zero Statement consists of four components: <ol style="list-style-type: none"> <li>1. <b>Review High Injury Network segments:</b> Document any segments on the High Injury Network (HIN) that are within a certain distance of the site frontage.</li> <li>2. <b>Assess proximate safety issues:</b> Review the crash history for all segments and crossings within a certain distance of the site frontage.</li> <li>3. <b>Review traffic speeds:</b> Conduct speed studies within a certain distance from the site frontage.</li> <li>4. <b>Describe site access:</b> Address the safety issues identified in steps 1 through 3 and describe how site circulation promotes safety, outlining how safe access will be provided to the site.</li> </ol> </li> </ul> <p>The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable scoping distance pertaining to steps 1 through 3 and requirements pertaining to steps 1 through 4 above.</p> <p><input type="checkbox"/> Maps are attached.</p>

Preliminary Mitigation Analysis	<i>*Refer to the LATR Guidelines for details on how to mitigate</i>
---------------------------------	---

<p><b>15.Vehicular Analysis</b></p> <p>(Include a map depicting the location of the study area intersections.)</p>	<p><input type="checkbox"/> Vehicular Analysis Anticipated (Vehicular mitigation to be determined after study)</p> <p><input type="checkbox"/> A map is attached</p> <ul style="list-style-type: none"> <li>• TEST: The motor vehicle adequacy test will not be applied in "Red" policy areas and these areas will not be subject to LATR motor vehicle mitigation requirements. If the plan generates 50 or more net new weekday peak-hour person trips, HCM Analysis is required to be provided for all intersections analyzed in studies for: 1) "Orange" policy areas, and 2) intersections with a CLV of more than 1,350 in "Yellow" &amp; "Green" policy areas. 3) With the <b>exception of intersections located within "Red" policy areas, CLV analysis required for all intersections regardless of policy area. CLV assessment and signal timing worksheets are to be included in the study appendix.</b></li> <li>• MITIGATION: The applicant must mitigate its impact on vehicle delay or down to the applicable policy area standard, whichever is less.</li> </ul>
<p><b>16.Pedestrian Analysis</b></p> <p>(Include a map depicting the scope of the applicable walkshed distance requirement.)</p>	<p><input type="checkbox"/> Pedestrian Mitigation Anticipated</p> <p><input type="checkbox"/> A map is attached</p> <ul style="list-style-type: none"> <li>• TEST: If the plan generates 50 or more net new weekday peak hour person trips, mitigation of surrounding pedestrian conditions is required. MITIGATION: Mitigation consists of three components: (1) Pedestrian Level of Comfort (PLOC). Pedestrian system adequacy is defined by providing a "Somewhat Comfortable" or "Very Comfortable PLOC score on streets and intersections for roads classified as Primary Residential or higher within a certain walkshed from the site. (2) Street Lighting. The applicant must evaluate existing street lighting based on MCDOT standards along roadways and paths from the development within a certain walkshed from the site frontage. Where standards are not met, the applicant must upgrade the street lighting to meet the applicable standard. (3) ADA Compliance. The applicant must fix ADA noncompliance issues within a certain walkshed from the site frontage equivalent to half the walkshed specified in the required scoping distance.</li> </ul> <p>The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable scoping walkshed distance requirement for each component described above.</p> <p>Record walkshed distance here _____ feet</p>
<p><b>17.Bicycle Analysis</b></p> <p>(Include a map depicting the scope of the applicable bicycle scoping requirement.)</p>	<p><input type="checkbox"/> Bicycle Mitigation Anticipated</p> <p><input type="checkbox"/> A map is attached</p> <ul style="list-style-type: none"> <li>• TEST: If the plan generates 50 or more net new peak hour weekday person trips, mitigation of surrounding bicycle conditions is required</li> <li>• MITIGATION: Required to ensure a low Level of Traffic Stress (LTS-2) on all existing transportation rights-of-way within a certain distance of the site frontage; Alternatively, the project may provide a master planned improvement that provides an equivalent improvement in the level of traffic stress for cyclists within a certain distance of the site frontage.</li> </ul> <p>The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable scoping distance requirement.</p> <p>Record scoping distance here _____ feet</p>



<p><b>18. Bus Transit Analysis</b></p> <p>(Include a map depicting the scope of the bus transit scoping requirement.)</p>	<p><input type="checkbox"/> Transit Mitigation Anticipated</p> <p><input type="checkbox"/> A map is attached</p> <ul style="list-style-type: none"> <li>• TEST: If the plan generates 50 or more net new peak hour person trips, mitigation of surrounding transit conditions is required. Projects located within "Green" policy areas are exempt from the bus transit adequacy test.</li> <li>• MITIGATION: Required to ensure that there are bus shelters outfitted with realtime traveler information displays and other standard amenities, along with a safe, efficient, and accessible path between the site and a bus stop, at a certain number of bus stops within a certain distance from the site.</li> </ul> <p>The applicant should refer to the <i>LATR Guidelines</i> to determine the applicable scoping distance requirement and the applicable number of bus shelters.</p> <p>Record scoping distance here _____ feet</p> <p>Record the applicable number of bus shelters here _____</p>
<p><b>Additional Analysis or Software Required</b></p>	<p><input type="checkbox"/> Queuing Analysis                      <input type="checkbox"/> Crash Analysis                      <input type="checkbox"/> VISSIM</p> <p><input type="checkbox"/> Signal Warrant Analysis              <input type="checkbox"/> Synchro                              <input type="checkbox"/> CORSIM</p> <p><input type="checkbox"/> Weaving/Merge Analysis              <input type="checkbox"/> SIDRA                                <input type="checkbox"/> Other _____</p>
<p>M-NCPPC Clarifications</p>	<p>Additional Assumptions &amp; Special Circumstances for Discussion</p>
<ul style="list-style-type: none"> <li>• Transportation impact study will comply with all other requirements of the LATR Guidelines not listed on this form.</li> <li>• If physical improvements are proposed as mitigation, the transportation impact study will demonstrate feasibility with regards to right-of-way and utility relocation (at a minimum).</li> <li>• If the development proposal significantly changes after this transportation impact study scope has been agreed to, the Applicant will work with M-NCPPC staff to amend the scope to accurately reflect the new proposal.</li> <li>• A receipt from MCDOT showing that the transportation impact study review fee has been paid will be provided to M-NCPPC IRC Division at the time the development application is submitted.</li> <li>• An electronic copy of the transportation impact study and appendices will be provided to Planning Department and MCDOT in electronic format.*</li> </ul> <p>* At the time of this document's publication, the Planning Department is accepting plan applications electronically using the E-Plans platform: (<a href="https://montgomeryplanning.org/resources/eplans-applicant-user-guide/">https://montgomeryplanning.org/resources/eplans-applicant-user-guide/</a>)</p>	

### Trip Generation Rates - ITE 11th Edition

Land Use (Source)	Formula/Rate	Directional Distribution			
		AM Peak Hour		PM Peak Hour	
		In	Out	In	Out
<b>Single-Family Detached (ITE-210, Units)</b>					
	$\ln(\text{AM Peak Hour Trips}) = 0.91 \times \ln(\text{Units}) + 0.12$	26%	74%	63%	37%
	$\ln(\text{PM Peak Hour Trips}) = 0.94 \times \ln(\text{Units}) + 0.27$				
<b>Single-Family Attached (ITE-215, Units)</b>					
	AM Peak Hour Trips = 0.48 x Units	31%	69%	57%	43%
	PM Peak Hour Trips = 0.57 x Units				

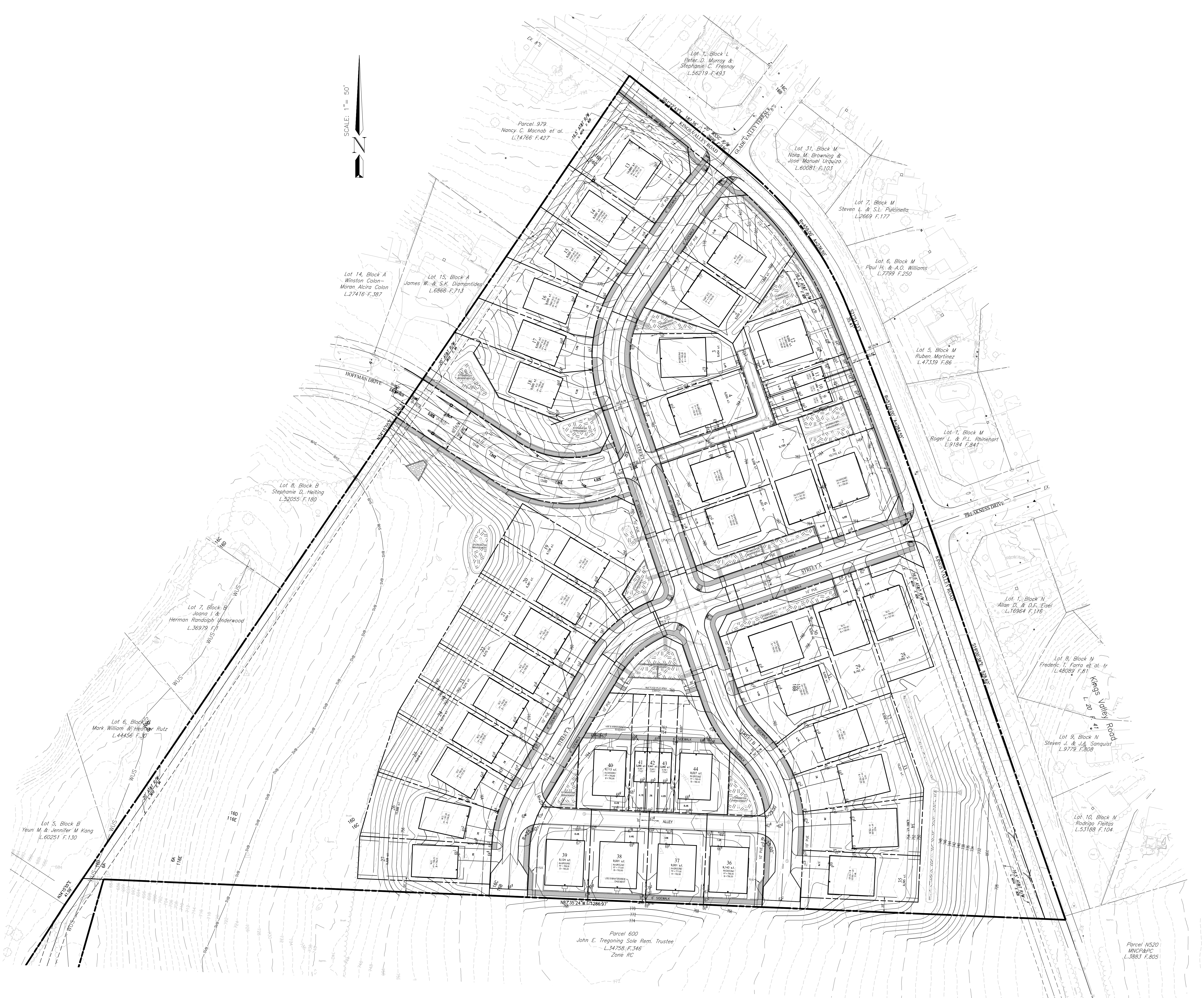
### Trip Generation for Subject Site

Land Use	Size	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Single-Family Detached	37 units	8	22	30	25	14	39
Townhouse	7 units	1	2	3	2	2	4
	Total Trips	9	24	33	27	16	43
	Adjusted Vehicle Trips by Policy Area (99%)	<b>9</b>	<b>24</b>	<b>33</b>	<b>27</b>	<b>16</b>	<b>43</b>
<b>Calculations for Multimodal Trips</b>							
	Total Person Trips (Vehicle Trips / 64%)			<b>52</b>			<b>67</b>
	Auto Passenger Trips (Person Trips x 28.2%)			<b>15</b>			<b>19</b>
	Transit Trips (Person Trips x 2.6%)			<b>2</b>			<b>2</b>
	Non-Motorized Trips (Person Trips x 5.3%)			<b>3</b>			<b>4</b>
	Pedestrian Trips (Transit + Non-Motorized Trips)			<b>5</b>			<b>6</b>

Notes:

1. Trip adjustment factors and mode split percentages for Rural East Area were obtained from M-NCPPC 2022 LATR Guidelines Appendix Tables 1a & 1b.





SCALE: 1" = 50'

Lot 5, Block B  
Yeun M. & Jennifer M. Kang  
L. 60251 F. 130

Lot 6, Block B  
Mark Wilkom & Heather Rutz  
L. 44456 F. 37

Lot 7, Block B  
Joana I. & Hermon Randolph Underwood  
L. 36979 F. 1

Lot 8, Block B  
Stephanie D. Helting  
L. 52055 F. 180

Lot 14, Block A  
Winston Colon -  
Marin Alicia Colon  
L. 27416 F. 397

Lot 15, Block A  
James W. & S.K. Diamantides  
L. 6866 F. 713

Parcel 579  
Nancy C. Macnab et al.  
L. 14766 F. 427

Lot 31, Block L  
Peter D. Murray & Stephanie C. Frasnay  
L. 56219 F. 493

Lot 31, Block M  
Nora M. Browning & Jose Manuel Urquiza  
L. 60081 F. 103

Lot 7, Block M  
Steven J. & S.L. Pafinella  
L. 2669 F. 177

Lot 6, Block M  
Paul H. & A.O. Williams  
L. 7799 F. 250

Lot 5, Block M  
Ruben Martinez  
L. 47339 F. 86

Lot 1, Block M  
Roger L. & P.L. Rhinshart  
L. 9184 F. 847

Lot 1, Block N  
Allan D. & D.F. Esel  
L. 16964 F. 176

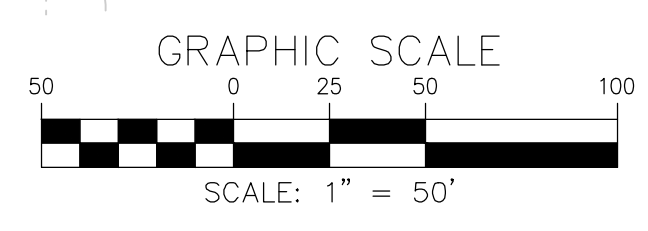
Lot 8, Block N  
Frederic T. Farra et al. tr  
L. 48089 F. 81

Lot 9, Block N  
Steven J. & J.A. Sanquist  
L. 9779 F. 808

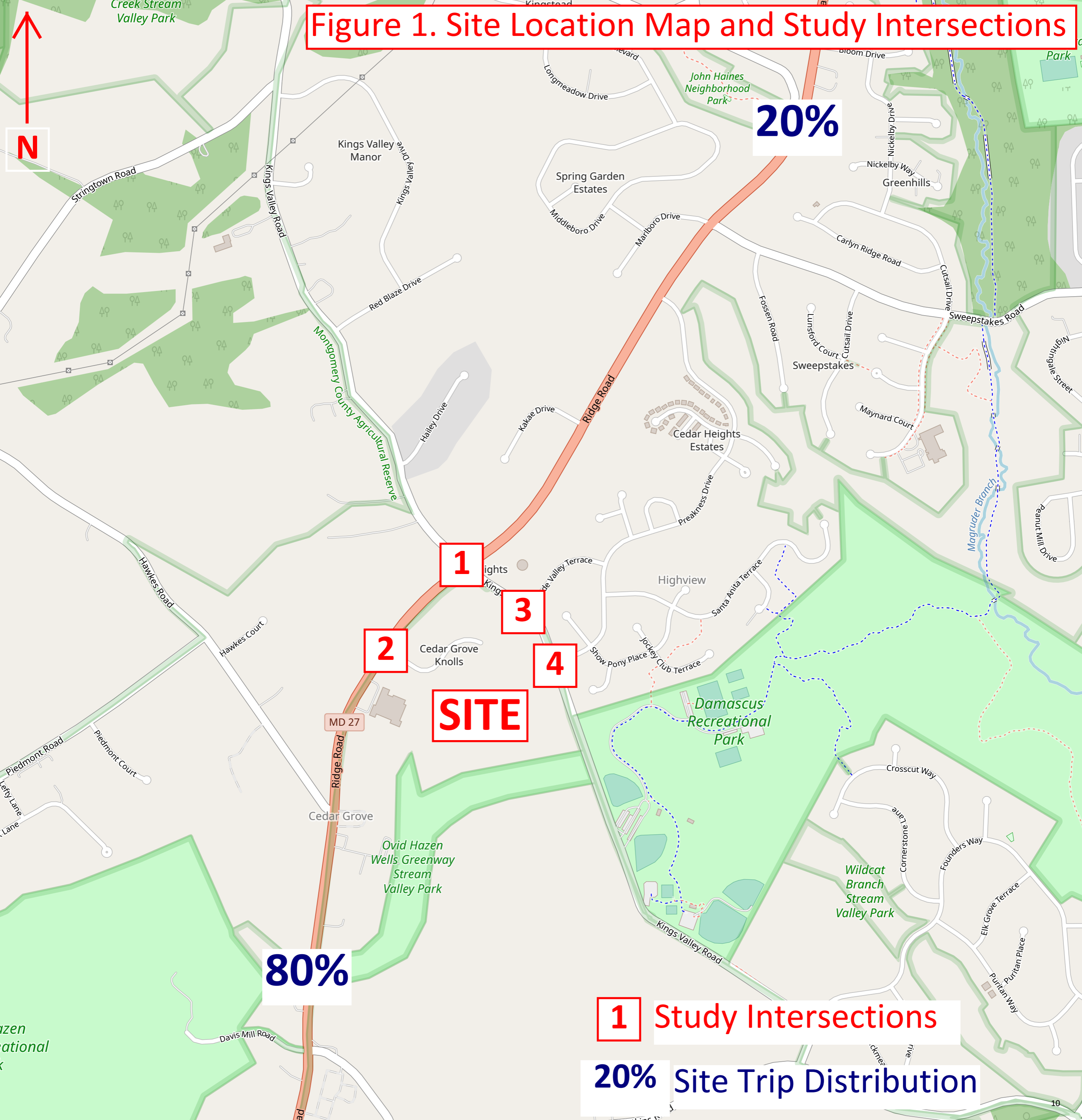
Lot 10, Block N  
Rodrigo Fleitas  
L. 53198 F. 104

Parcel 600  
John E. Treganing Sale Rem. Trustee  
L. 34758 F. 346  
Zone RC

Parcel NS20  
MVC&PC  
L. 3883 F. 805

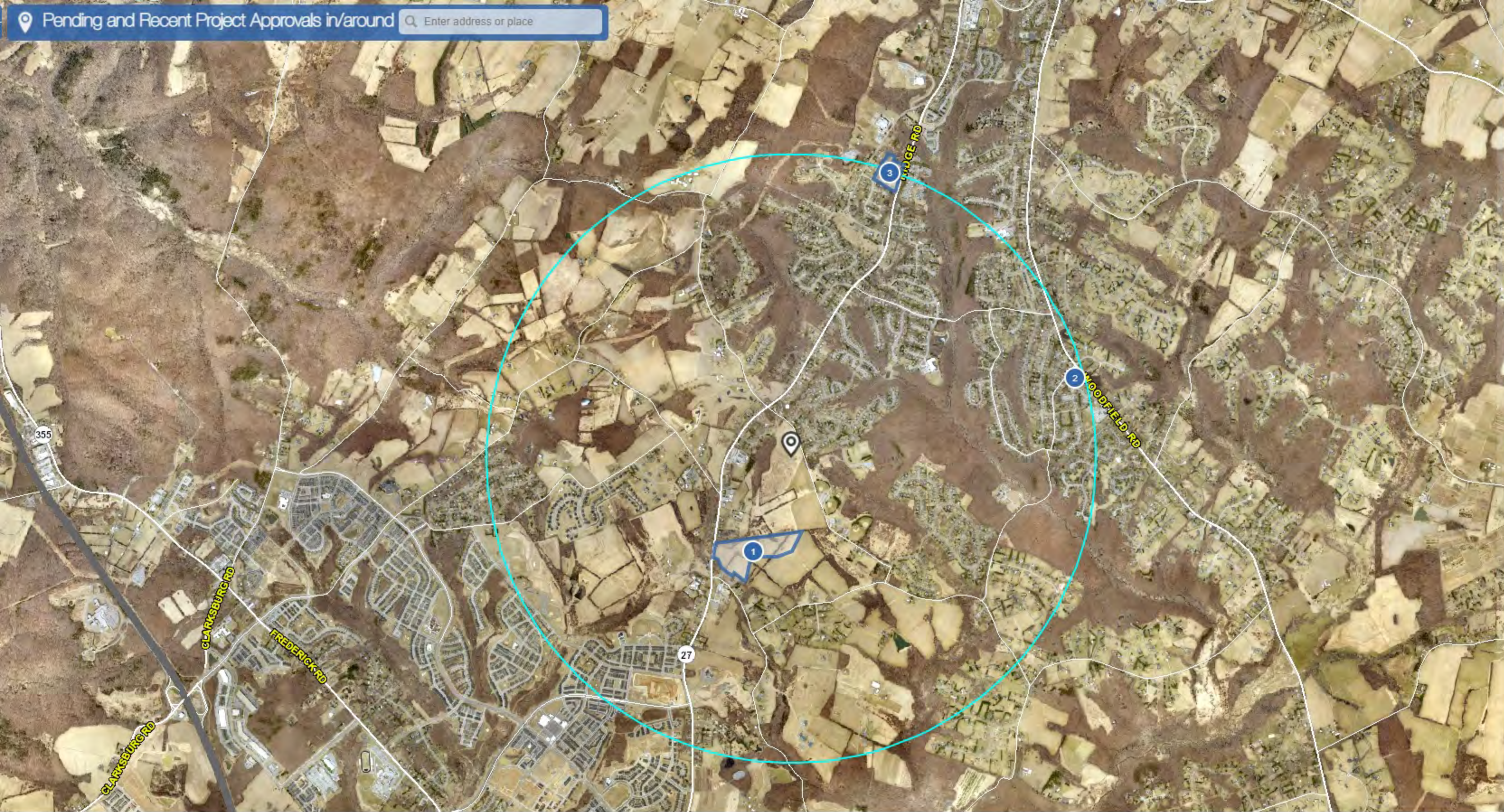


# Figure 1. Site Location Map and Study Intersections



**1** Study Intersections

**20%** Site Trip Distribution



**View Plans**

- Site Plans
- Preliminary Plans
- Sketch Plans
- Spec. Excpt. & Cond. Use
- Old Site Plans
- Old Prelim Plans
- Demographics
- Lifestyle
- Weather

Found: 3

MILES

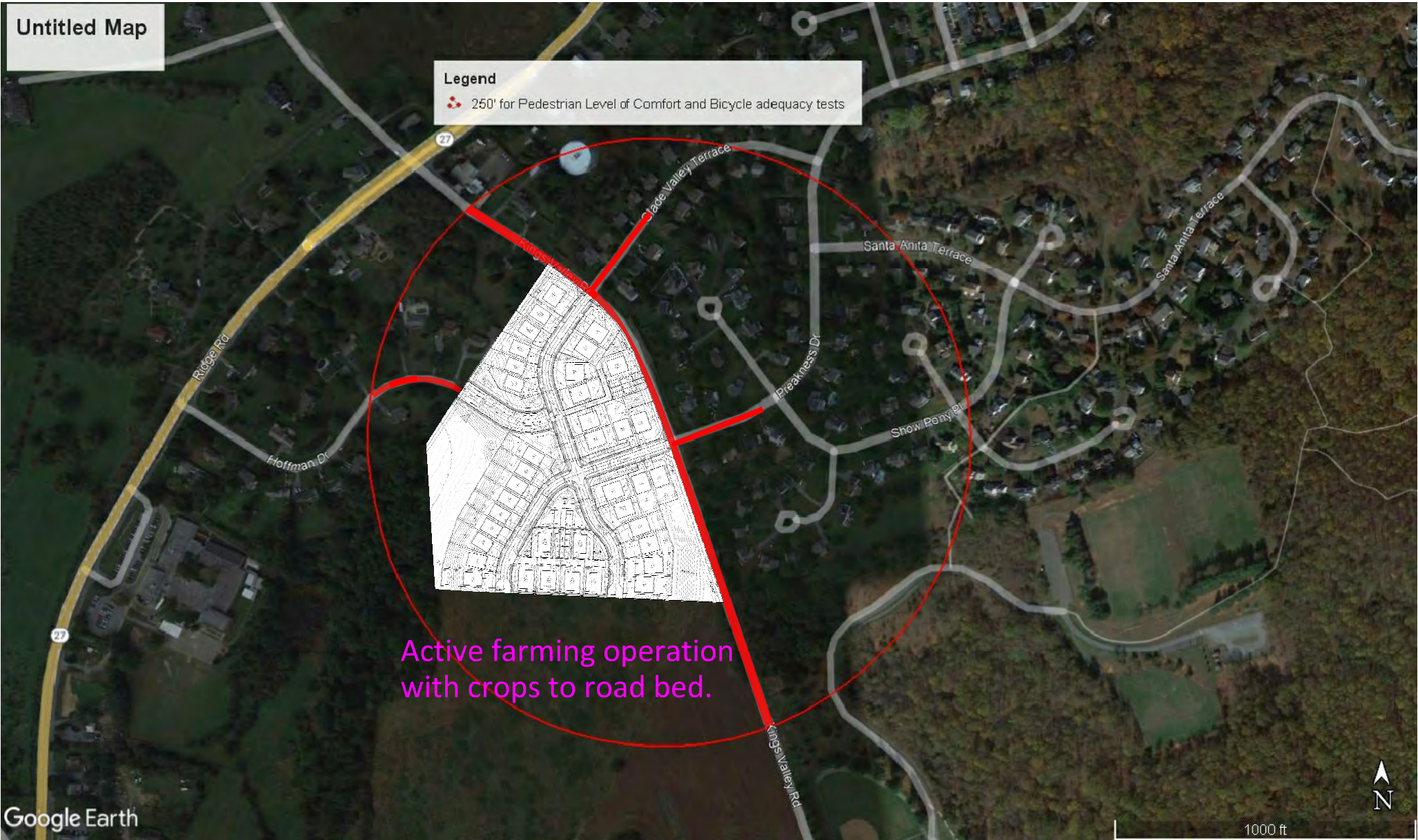
0 1 2 3 4 5 6 7 8 9 10

- 1** 0.66 MILES  
120200040  
On Ridge Road, 650 feet N of Da...  
Resurvey on Locust Level
- 2** 1.94 MILES  
120200030  
24320 Woodfield Road-226 feet ...  
Addition to Ray's Adventure
- 3** 1.98 MILES  
120180230  
On Ridge Road, 0 ft north of Tral...  
St. Anne's Episcopal Church

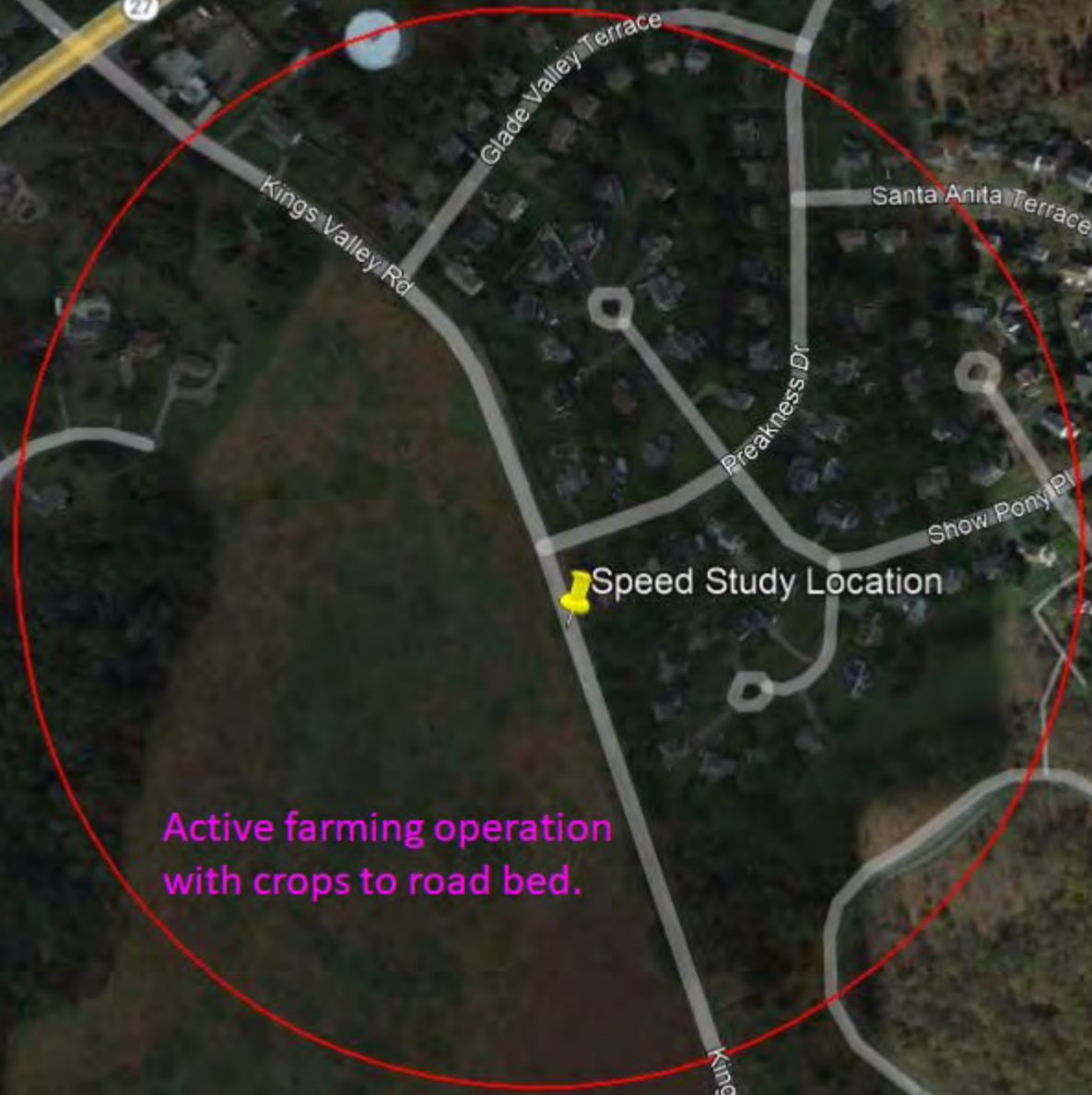
Untitled Map

Legend

250' for Pedestrian Level of Comfort and Bicycle adequacy tests



**Legend**  
📍 250' Vision Zero Statement



Active farming operation  
with crops to road bed.

Speed Study Location



**TOTALS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Kings Valley Road  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Kings Valley Road					TRAFFIC FROM WEST on: Kings Valley Road					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	1	236	0	0	237	1	79	3	0	83	3	0	16	0	19	10	0	1	0	11	350
6:45 - 7:00	2	250	1	0	253	0	87	5	0	92	2	0	12	0	14	8	1	1	0	10	369
7:00 - 7:15	5	263	2	0	270	0	110	5	0	115	7	1	21	0	29	18	2	2	0	22	436
7:15 - 7:30	0	246	6	0	252	3	127	1	0	131	14	1	20	0	35	21	1	7	0	29	447
7:30 - 7:45	1	210	6	0	217	8	139	2	0	149	7	1	19	0	27	15	6	4	0	25	418
7:45 - 8:00	1	244	1	0	246	4	108	0	0	112	12	7	18	0	37	22	1	2	0	25	420
8:00 - 8:15	2	204	7	0	213	5	138	4	0	147	6	1	18	0	25	12	4	2	0	18	403
8:15 - 8:30	2	194	2	0	198	5	109	1	0	115	7	1	17	0	25	11	3	1	0	15	353
8:30 - 8:45	1	219	4	0	224	7	142	2	0	151	7	1	21	0	29	9	3	2	0	14	418
8:45 - 9:00	3	204	2	0	209	5	116	4	0	125	7	3	13	0	23	9	4	8	0	21	378
9:00 - 9:15	3	193	9	0	205	5	112	8	0	125	1	0	11	0	12	5	0	0	0	5	347
9:15 - 9:30	6	174	2	0	182	11	107	8	0	126	4	4	12	0	20	2	1	2	0	5	333
<b>3 Hr Totals</b>	<b>27</b>	<b>2637</b>	<b>42</b>	<b>0</b>	<b>2706</b>	<b>54</b>	<b>1374</b>	<b>43</b>	<b>0</b>	<b>1471</b>	<b>77</b>	<b>20</b>	<b>198</b>	<b>0</b>	<b>295</b>	<b>142</b>	<b>26</b>	<b>32</b>	<b>0</b>	<b>200</b>	<b>4672</b>
<b>1 Hr Totals</b>																					
6:30 - 7:30	8	995	9	0	1012	4	403	14	0	421	26	2	69	0	97	57	4	11	0	72	1602
6:45 - 7:45	8	969	15	0	992	11	463	13	0	487	30	3	72	0	105	62	10	14	0	86	1670
7:00 - 8:00	7	963	15	0	985	15	484	8	0	507	40	10	78	0	128	76	10	15	0	101	1721
7:15 - 8:15	4	904	20	0	928	20	512	7	0	539	39	10	75	0	124	70	12	15	0	97	1688
7:30 - 8:30	6	852	16	0	874	22	494	7	0	523	32	10	72	0	114	60	14	9	0	83	1594
7:45 - 8:45	6	861	14	0	881	21	497	7	0	525	32	10	74	0	116	54	11	7	0	72	1594
8:00 - 9:00	8	821	15	0	844	22	505	11	0	538	27	6	69	0	102	41	14	13	0	68	1552
8:15 - 9:15	9	810	17	0	836	22	479	15	0	516	22	5	62	0	89	34	10	11	0	55	1496
8:30 - 9:30	13	790	17	0	820	28	477	22	0	527	19	8	57	0	84	25	8	12	0	45	1476
<b>PEAK HOUR</b>	<b>7</b>	<b>963</b>	<b>15</b>	<b>0</b>	<b>985</b>	<b>15</b>	<b>484</b>	<b>8</b>	<b>0</b>	<b>507</b>	<b>40</b>	<b>10</b>	<b>78</b>	<b>0</b>	<b>128</b>	<b>76</b>	<b>10</b>	<b>15</b>	<b>0</b>	<b>101</b>	<b>1721</b>
<b>PM</b>																					
4:00 - 4:15	3	153	11	0	167	21	232	6	0	259	9	0	16	0	25	1	3	6	0	10	461
4:15 - 4:30	7	153	4	0	164	11	222	22	0	255	4	2	8	0	14	6	2	10	0	18	451
4:30 - 4:45	3	167	9	0	179	10	205	12	0	227	11	4	13	0	28	3	5	6	0	14	448
4:45 - 5:00	2	150	27	0	179	9	244	4	0	257	10	2	12	0	24	6	2	1	0	9	469
5:00 - 5:15	1	153	16	0	170	15	234	9	0	258	12	1	14	0	27	9	5	7	0	21	476
5:15 - 5:30	1	155	21	0	177	24	237	20	0	281	12	6	13	0	31	5	2	4	0	11	500
5:30 - 5:45	3	156	20	0	179	18	234	9	0	261	8	5	9	0	22	6	4	2	0	12	474
5:45 - 6:00	2	164	19	0	185	12	241	6	0	259	8	2	16	0	26	4	9	7	0	20	490
6:00 - 6:15	5	160	14	0	179	21	163	6	0	190	8	3	13	0	24	3	1	1	0	5	398
6:15 - 6:30	1	118	10	0	129	13	198	10	0	221	3	1	18	0	22	4	5	2	0	11	383
6:30 - 6:45	1	107	16	0	124	18	177	3	0	198	12	0	13	0	25	3	5	1	0	9	356
6:45 - 7:00	1	117	11	0	129	15	207	9	0	231	13	0	9	0	22	6	8	3	0	17	399
<b>3 Hr Totals</b>	<b>30</b>	<b>1753</b>	<b>178</b>	<b>0</b>	<b>1961</b>	<b>187</b>	<b>2594</b>	<b>116</b>	<b>0</b>	<b>2897</b>	<b>110</b>	<b>26</b>	<b>154</b>	<b>0</b>	<b>290</b>	<b>56</b>	<b>51</b>	<b>50</b>	<b>0</b>	<b>157</b>	<b>5305</b>
<b>1 Hr Totals</b>																					
4:00 - 5:00	15	623	51	0	689	51	903	44	0	998	34	8	49	0	91	16	12	23	0	51	1829
4:15 - 5:15	13	623	56	0	692	45	905	47	0	997	37	9	47	0	93	24	14	24	0	62	1844
4:30 - 5:30	7	625	73	0	705	58	920	45	0	1023	45	13	52	0	110	23	14	18	0	55	1893
4:45 - 5:45	7	614	84	0	705	66	949	42	0	1057	42	14	48	0	104	26	13	14	0	53	1919
5:00 - 6:00	7	628	76	0	711	69	946	44	0	1059	40	14	52	0	106	24	20	20	0	64	1940
5:15 - 6:15	11	635	74	0	720	75	875	41	0	991	36	16	51	0	103	18	16	14	0	48	1862
5:30 - 6:30	11	598	63	0	672	64	836	31	0	931	27	11	56	0	94	17	19	12	0	48	1745
5:45 - 6:45	9	549	59	0	617	64	779	25	0	868	31	6	60	0	97	14	20	11	0	45	1627
6:00 - 7:00	8	502	51	0	561	67	745	28	0	840	36	4	53	0	93	16	19	7	0	42	1536
<b>PEAK HOUR</b>	<b>7</b>	<b>628</b>	<b>76</b>	<b>0</b>	<b>711</b>	<b>69</b>	<b>946</b>	<b>44</b>	<b>0</b>	<b>1059</b>	<b>40</b>	<b>14</b>	<b>52</b>	<b>0</b>	<b>106</b>	<b>24</b>	<b>20</b>	<b>20</b>	<b>0</b>	<b>64</b>	<b>1940</b>



**CARS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Kings Valley Road  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Kings Valley Road					TRAFFIC FROM WEST on: Kings Valley Road					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	1	229	0	0	230	1	72	3	0	76	3	0	15	0	18	10	0	1	0	11	335
6:45 - 7:00	2	233	1	0	236	0	82	5	0	87	2	0	12	0	14	7	1	1	0	9	346
7:00 - 7:15	4	255	2	0	261	0	94	5	0	99	6	1	21	0	28	17	1	2	0	20	408
7:15 - 7:30	0	230	5	0	235	3	118	1	0	122	13	1	20	0	34	21	1	6	0	28	419
7:30 - 7:45	0	191	4	0	195	7	132	2	0	141	7	1	19	0	27	15	6	4	0	25	388
7:45 - 8:00	1	239	0	0	240	4	96	0	0	100	11	7	18	0	36	22	1	1	0	24	400
8:00 - 8:15	2	191	5	0	198	3	126	4	0	133	6	1	17	0	24	12	4	2	0	18	373
8:15 - 8:30	1	184	2	0	187	4	98	1	0	103	5	1	17	0	23	11	3	1	0	15	328
8:30 - 8:45	1	207	4	0	212	6	134	2	0	142	6	1	21	0	28	9	3	2	0	14	396
8:45 - 9:00	3	188	2	0	193	5	107	4	0	116	6	3	13	0	22	8	4	8	0	20	351
9:00 - 9:15	3	177	9	0	189	5	107	7	0	119	1	0	11	0	12	5	0	0	0	5	325
9:15 - 9:30	6	152	2	0	160	10	98	8	0	116	4	4	12	0	20	2	1	1	0	4	300
<b>3 Hr Totals</b>	24	2476	36	0	2536	48	1264	42	0	1354	70	20	196	0	286	139	25	29	0	193	4369
<b>1 Hr Totals</b>																					
6:30 - 7:30	7	947	8	0	962	4	366	14	0	384	24	2	68	0	94	55	3	10	0	68	1508
6:45 - 7:45	6	909	12	0	927	10	426	13	0	449	28	3	72	0	103	60	9	13	0	82	1561
7:00 - 8:00	5	915	11	0	931	14	440	8	0	462	37	10	78	0	125	75	9	13	0	97	1615
7:15 - 8:15	3	851	14	0	868	17	472	7	0	496	37	10	74	0	121	70	12	13	0	95	1580
7:30 - 8:30	4	805	11	0	820	18	452	7	0	477	29	10	71	0	110	60	14	8	0	82	1489
7:45 - 8:45	5	821	11	0	837	17	454	7	0	478	28	10	73	0	111	54	11	6	0	71	1497
8:00 - 9:00	7	770	13	0	790	18	465	11	0	494	23	6	68	0	97	40	14	13	0	67	1448
8:15 - 9:15	8	756	17	0	781	20	446	14	0	480	18	5	62	0	85	33	10	11	0	54	1400
8:30 - 9:30	13	724	17	0	754	26	446	21	0	493	17	8	57	0	82	24	8	11	0	43	1372
<b>PEAK HOUR</b>	5	915	11	0	931	14	440	8	0	462	37	10	78	0	125	75	9	13	0	97	1615
<b>7:00 - 8:00</b>																					
<b>PM</b>																					
4:00 - 4:15	3	142	11	0	156	21	223	6	0	250	9	0	14	0	23	1	3	6	0	10	439
4:15 - 4:30	7	142	4	0	153	11	216	21	0	248	3	2	8	0	13	6	2	10	0	18	432
4:30 - 4:45	1	161	9	0	171	10	199	12	0	221	11	4	13	0	28	2	5	6	0	13	433
4:45 - 5:00	2	143	27	0	172	9	239	4	0	252	10	2	12	0	24	6	2	0	0	8	456
5:00 - 5:15	1	149	16	0	166	14	229	8	0	251	12	1	14	0	27	8	4	7	0	19	463
5:15 - 5:30	1	152	21	0	174	24	232	20	0	276	12	6	13	0	31	5	2	4	0	11	492
5:30 - 5:45	2	152	20	0	174	18	232	9	0	259	8	5	9	0	22	6	4	2	0	12	467
5:45 - 6:00	2	161	19	0	182	12	236	6	0	254	8	2	16	0	26	4	9	7	0	20	482
6:00 - 6:15	5	159	13	0	177	21	162	6	0	189	8	3	12	0	23	3	1	1	0	5	394
6:15 - 6:30	1	118	10	0	129	13	196	10	0	219	3	1	18	0	22	4	5	2	0	11	381
6:30 - 6:45	1	107	16	0	124	18	173	3	0	194	12	0	13	0	25	3	5	1	0	9	352
6:45 - 7:00	1	115	11	0	127	15	202	9	0	226	13	0	9	0	22	6	8	3	0	17	392
<b>3 Hr Totals</b>	27	1701	177	0	1905	186	2539	114	0	2839	109	26	151	0	286	54	50	49	0	153	5183
<b>1 Hr Totals</b>																					
4:00 - 5:00	13	588	51	0	652	51	877	43	0	971	33	8	47	0	88	15	12	22	0	49	1760
4:15 - 5:15	11	595	56	0	662	44	883	45	0	972	36	9	47	0	92	22	13	23	0	58	1784
4:30 - 5:30	5	605	73	0	683	57	899	44	0	1000	45	13	52	0	110	21	13	17	0	51	1844
4:45 - 5:45	6	596	84	0	686	65	932	41	0	1038	42	14	48	0	104	25	12	13	0	50	1878
5:00 - 6:00	6	614	76	0	696	68	929	43	0	1040	40	14	52	0	106	23	19	20	0	62	1904
5:15 - 6:15	10	624	73	0	707	75	862	41	0	978	36	16	50	0	102	18	16	14	0	48	1835
5:30 - 6:30	10	590	62	0	662	64	826	31	0	921	27	11	55	0	93	17	19	12	0	48	1724
5:45 - 6:45	9	545	58	0	612	64	767	25	0	856	31	6	59	0	96	14	20	11	0	45	1609
6:00 - 7:00	8	499	50	0	557	67	733	28	0	828	36	4	52	0	92	16	19	7	0	42	1519
<b>PEAK HOUR</b>	6	614	76	0	696	68	929	43	0	1040	40	14	52	0	106	23	19	20	0	62	1904
<b>5:00 - 6:00</b>	6	614	76	0	696	68	929	43	0	1040	40	14	52	0	106	23	19	20	0	62	1904

**MEDIUMS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Kings Valley Road  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Kings Valley Road					TRAFFIC FROM WEST on: Kings Valley Road					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	7	0	0	7	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	14
6:45 - 7:00	0	13	0	0	13	0	5	0	0	5	0	0	0	0	0	1	0	0	0	1	19
7:00 - 7:15	0	7	0	0	7	0	14	0	0	14	1	0	0	0	1	0	1	0	0	1	23
7:15 - 7:30	0	11	1	0	12	0	9	0	0	9	1	0	0	0	1	0	0	1	0	1	23
7:30 - 7:45	1	12	2	0	15	1	7	0	0	8	0	0	0	0	0	0	0	0	0	0	23
7:45 - 8:00	0	3	1	0	4	0	11	0	0	11	1	0	0	0	1	0	0	1	0	1	17
8:00 - 8:15	0	11	2	0	13	2	12	0	0	14	0	0	1	0	1	0	0	0	0	0	28
8:15 - 8:30	1	9	0	0	10	1	10	0	0	11	2	0	0	0	2	0	0	0	0	0	23
8:30 - 8:45	0	10	0	0	10	1	7	0	0	8	1	0	0	0	1	0	0	0	0	0	19
8:45 - 9:00	0	15	0	0	15	0	6	0	0	6	1	0	0	0	1	1	0	0	0	1	23
9:00 - 9:15	0	12	0	0	12	0	5	1	0	6	0	0	0	0	0	0	0	0	0	0	18
9:15 - 9:30	0	19	0	0	19	1	5	0	0	6	0	0	0	0	0	0	0	1	0	1	26
<b>3 Hr Totals</b>	2	129	6	0	137	6	98	1	0	105	7	0	1	0	8	2	1	3	0	6	256
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	38	1	0	39	0	35	0	0	35	2	0	0	0	2	1	1	1	0	3	79
6:45 - 7:45	1	43	3	0	47	1	35	0	0	36	2	0	0	0	2	1	1	1	0	3	88
7:00 - 8:00	1	33	4	0	38	1	41	0	0	42	3	0	0	0	3	0	1	2	0	3	86
7:15 - 8:15	1	37	6	0	44	3	39	0	0	42	2	0	1	0	3	0	0	2	0	2	91
7:30 - 8:30	2	35	5	0	42	4	40	0	0	44	3	0	1	0	4	0	0	1	0	1	91
7:45 - 8:45	1	33	3	0	37	4	40	0	0	44	4	0	1	0	5	0	0	1	0	1	87
8:00 - 9:00	1	45	2	0	48	4	35	0	0	39	4	0	1	0	5	1	0	0	0	1	93
8:15 - 9:15	1	46	0	0	47	2	28	1	0	31	4	0	0	0	4	1	0	0	0	1	83
8:30 - 9:30	0	56	0	0	56	2	23	1	0	26	2	0	0	0	2	1	0	1	0	2	86
<b>PEAK HOUR</b>																					
<b>7:00 - 8:00</b>	1	33	4	0	38	1	41	0	0	42	3	0	0	0	3	0	1	2	0	3	86
<b>PM</b>																					
4:00 - 4:15	0	10	0	0	10	0	7	0	0	7	0	0	2	0	2	0	0	0	0	0	19
4:15 - 4:30	0	9	0	0	9	0	4	1	0	5	0	0	0	0	0	0	0	0	0	0	14
4:30 - 4:45	1	6	0	0	7	0	6	0	0	6	0	0	0	0	0	1	0	0	0	1	14
4:45 - 5:00	0	4	0	0	4	0	4	0	0	4	0	0	0	0	0	0	0	1	0	1	9
5:00 - 5:15	0	3	0	0	3	1	5	1	0	7	0	0	0	0	0	1	1	0	0	2	12
5:15 - 5:30	0	2	0	0	2	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	7
5:30 - 5:45	1	3	0	0	4	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	6
5:45 - 6:00	0	3	0	0	3	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	6
6:00 - 6:15	0	1	1	0	2	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	4
6:15 - 6:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
6:30 - 6:45	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	3
6:45 - 7:00	0	1	0	0	1	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	5
<b>3 Hr Totals</b>	2	42	1	0	45	1	46	2	0	49	0	0	3	0	3	2	1	1	0	4	101
<b>1 Hr Totals</b>																					
4:00 - 5:00	1	29	0	0	30	0	21	1	0	22	0	0	2	0	2	1	0	1	0	2	56
4:15 - 5:15	1	22	0	0	23	1	19	2	0	22	0	0	0	0	0	2	1	1	0	4	49
4:30 - 5:30	1	15	0	0	16	1	20	1	0	22	0	0	0	0	0	2	1	1	0	4	42
4:45 - 5:45	1	12	0	0	13	1	16	1	0	18	0	0	0	0	0	1	1	1	0	3	34
5:00 - 6:00	1	11	0	0	12	1	15	1	0	17	0	0	0	0	0	1	1	0	0	2	31
5:15 - 6:15	1	9	1	0	11	0	11	0	0	11	0	0	1	0	1	0	0	0	0	0	23
5:30 - 6:30	1	7	1	0	9	0	8	0	0	8	0	0	1	0	1	0	0	0	0	0	18
5:45 - 6:45	0	4	1	0	5	0	9	0	0	9	0	0	1	0	1	0	0	0	0	0	15
6:00 - 7:00	0	2	1	0	3	0	10	0	0	10	0	0	1	0	1	0	0	0	0	0	14
<b>PEAK HOUR</b>																					
<b>5:00 - 6:00</b>	1	11	0	0	12	1	15	1	0	17	0	0	0	0	0	1	1	0	0	2	31

**HEAVY TRUCKS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Kings Valley Road  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Kings Valley Road					TRAFFIC FROM WEST on: Kings Valley Road					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
6:45 - 7:00	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:00 - 7:15	1	1	0	0	2	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	5
7:15 - 7:30	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7:30 - 7:45	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7:45 - 8:00	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
8:00 - 8:15	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 - 8:30	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
8:30 - 8:45	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
8:45 - 9:00	0	1	0	0	1	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	4
9:00 - 9:15	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9:15 - 9:30	0	3	0	0	3	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	7
<b>3 Hr Totals</b>	1	32	0	0	33	0	12	0	0	12	0	0	1	0	1	1	0	0	0	1	47
<b>1 Hr Totals</b>																					
6:30 - 7:30	1	10	0	0	11	0	2	0	0	2	0	0	1	0	1	1	0	0	0	1	15
6:45 - 7:45	1	17	0	0	18	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	21
7:00 - 8:00	1	15	0	0	16	0	3	0	0	3	0	0	0	0	0	1	0	0	0	1	20
7:15 - 8:15	0	16	0	0	16	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	17
7:30 - 8:30	0	12	0	0	12	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	14
7:45 - 8:45	0	7	0	0	7	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	10
8:00 - 9:00	0	6	0	0	6	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	11
8:15 - 9:15	0	8	0	0	8	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	13
8:30 - 9:30	0	10	0	0	10	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	18
<b>PEAK HOUR</b>	1	15	0	0	16	0	3	0	0	3	0	0	0	0	0	1	0	0	0	1	20
<b>7:00 - 8:00</b>																					
<b>PM</b>																					
4:00 - 4:15	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	3
4:15 - 4:30	0	2	0	0	2	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	5
4:30 - 4:45	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:45 - 5:00	0	3	0	0	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	4
5:00 - 5:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 - 5:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 - 5:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 - 6:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
6:00 - 6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 - 6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 - 6:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
6:45 - 7:00	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
<b>3 Hr Totals</b>	1	10	0	0	11	0	9	0	0	9	1	0	0	0	1	0	0	0	0	0	21
<b>1 Hr Totals</b>																					
4:00 - 5:00	1	6	0	0	7	0	5	0	0	5	1	0	0	0	1	0	0	0	0	0	13
4:15 - 5:15	1	6	0	0	7	0	3	0	0	3	1	0	0	0	1	0	0	0	0	0	11
4:30 - 5:30	1	5	0	0	6	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	7
4:45 - 5:45	0	6	0	0	6	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	7
5:00 - 6:00	0	3	0	0	3	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	5
5:15 - 6:15	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	4
5:30 - 6:30	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	3
5:45 - 6:45	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	3
6:00 - 7:00	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	3
<b>PEAK HOUR</b>	0	3	0	0	3	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	5
<b>5:00 - 6:00</b>	0	3	0	0	3	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	5

**BICYCLES TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Kings Valley Road  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Kings Valley Road					TRAFFIC FROM WEST on: Kings Valley Road					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 - 7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 - 8:00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
8:00 - 8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 8:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3 Hr Totals</b>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 8:00	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
7:15 - 8:15	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
7:30 - 8:30	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
7:45 - 8:45	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
8:00 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PEAK HOUR</b>																					
<b>7:00 - 8:00</b>	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
<b>PM</b>																					
4:00 - 4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 - 4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 - 4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 6:15	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
6:15 - 6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3 Hr Totals</b>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 - 5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 - 6:15	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 - 6:30	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 - 6:45	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
6:00 - 7:00	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
<b>PEAK HOUR</b>																					
<b>5:00 - 6:00</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**PEDESTRIAN AND BICYCLE OBSERVATIONS - SUMMARY**

Intersection of: MD 27  
and: Kings Valley Road  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday  
Star Rating: 4



TIME	NORTH LEG MD 27		SOUTH LEG MD 27	
	Pedestrians	Bicycles	Pedestrians	Bicycles
<b>AM</b>				
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
7:00 - 7:15	0	0	0	0
7:15 - 7:30	0	0	0	0
7:30 - 7:45	0	0	0	0
7:45 - 8:00	0	0	0	0
8:00 - 8:15	0	0	0	0
8:15 - 8:30	0	0	0	0
8:30 - 8:45	0	0	0	0
8:45 - 9:00	0	0	0	0
9:00 - 9:15	0	0	0	0
9:15 - 9:30	0	0	0	0
<b>TOTALS</b>	0	0	0	0
<b>PM</b>				
4:00 - 4:15	0	0	0	0
4:15 - 4:30	0	0	0	0
4:30 - 4:45	0	0	0	0
4:45 - 5:00	0	0	0	0
5:00 - 5:15	0	0	0	0
5:15 - 5:30	0	0	0	0
5:30 - 5:45	0	0	0	0
5:45 - 6:00	0	0	0	0
6:00 - 6:15	0	0	1	0
6:15 - 6:30	0	0	0	0
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
<b>TOTALS</b>	0	0	1	0

	EAST LEG Kings Valley Road		WEST LEG Kings Valley Road	
	Pedestrians	Bicycles	Pedestrians	Bicycles
<b>AM</b>				
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
7:00 - 7:15	0	0	0	0
7:15 - 7:30	0	0	0	0
7:30 - 7:45	0	0	0	0
7:45 - 8:00	0	0	0	0
8:00 - 8:15	0	0	0	0
8:15 - 8:30	0	0	0	0
8:30 - 8:45	0	0	0	0
8:45 - 9:00	0	0	0	0
9:00 - 9:15	0	0	0	0
9:15 - 9:30	0	0	0	0
<b>TOTALS</b>	0	0	0	0
<b>PM</b>				
4:00 - 4:15	0	0	0	0
4:15 - 4:30	0	0	0	0
4:30 - 4:45	0	0	0	0
4:45 - 5:00	0	0	0	0
5:00 - 5:15	0	0	0	0
5:15 - 5:30	0	0	0	0
5:30 - 5:45	0	0	0	0
5:45 - 6:00	0	0	0	0
6:00 - 6:15	0	0	0	0
6:15 - 6:30	0	0	0	0
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
<b>TOTALS</b>	0	0	0	0



Kings Valley Rd

Ridge Rd

27



**TOTALS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Hoffman Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Hoffman Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	282	0	0	282	1	87	0	0	88	0	0	2	0	2	0	0	0	0	0	372
6:45 - 7:00	0	252	0	0	252	0	79	0	0	79	0	0	1	0	1	0	0	0	0	0	332
7:00 - 7:15	0	307	0	0	307	0	114	0	0	114	2	0	0	0	2	0	0	0	0	0	423
7:15 - 7:30	0	271	1	0	272	0	138	0	0	138	1	0	1	0	2	0	0	0	0	0	412
7:30 - 7:45	0	241	0	1	242	1	152	0	0	153	1	0	1	0	2	0	0	0	0	0	397
7:45 - 8:00	0	284	0	0	284	0	114	0	0	114	0	0	2	0	2	0	0	0	0	0	400
8:00 - 8:15	0	245	0	0	245	0	146	0	0	146	0	0	0	0	0	0	0	0	0	0	391
8:15 - 8:30	0	218	0	0	218	1	124	0	0	125	0	0	0	0	0	0	0	0	0	0	343
8:30 - 8:45	0	251	0	0	251	0	143	0	0	143	0	0	2	0	2	0	0	0	0	0	396
8:45 - 9:00	0	216	0	0	216	1	122	0	0	123	0	0	0	0	0	0	0	0	0	0	339
9:00 - 9:15	0	210	0	0	210	0	118	0	0	118	0	0	0	0	0	0	0	0	0	0	328
9:15 - 9:30	0	180	0	0	180	0	142	0	0	142	0	0	1	0	1	0	0	0	0	0	323
<b>3 Hr Totals</b>	0	2957	1	1	2959	4	1479	0	0	1483	4	0	10	0	14	0	0	0	0	0	4456
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	1112	1	0	1113	1	418	0	0	419	3	0	4	0	7	0	0	0	0	0	1539
6:45 - 7:45	0	1071	1	1	1073	1	483	0	0	484	4	0	3	0	7	0	0	0	0	0	1564
7:00 - 8:00	0	1103	1	1	1105	1	518	0	0	519	4	0	4	0	8	0	0	0	0	0	1632
7:15 - 8:15	0	1041	1	1	1043	1	550	0	0	551	2	0	4	0	6	0	0	0	0	0	1600
7:30 - 8:30	0	988	0	1	989	2	536	0	0	538	1	0	3	0	4	0	0	0	0	0	1531
7:45 - 8:45	0	998	0	0	998	1	527	0	0	528	0	0	4	0	4	0	0	0	0	0	1530
8:00 - 9:00	0	930	0	0	930	2	535	0	0	537	0	0	2	0	2	0	0	0	0	0	1469
8:15 - 9:15	0	895	0	0	895	2	507	0	0	509	0	0	2	0	2	0	0	0	0	0	1406
8:30 - 9:30	0	857	0	0	857	1	525	0	0	526	0	0	3	0	3	0	0	0	0	0	1386
<b>PEAK HOUR</b>	0	1103	1	1	1105	1	518	0	0	519	4	0	4	0	8	0	0	0	0	0	1632
<b>7:00 - 8:00</b>																					
<b>PM</b>																					
4:00 - 4:15	0	164	0	0	164	2	263	0	0	265	0	0	1	0	1	0	0	0	0	0	430
4:15 - 4:30	0	169	1	0	170	2	248	0	0	250	1	0	1	0	2	0	0	0	0	0	422
4:30 - 4:45	0	181	0	0	181	3	236	0	0	239	2	0	0	0	2	0	0	0	0	0	422
4:45 - 5:00	0	175	0	0	175	1	256	0	0	257	0	0	0	0	0	0	0	0	0	0	432
5:00 - 5:15	0	166	0	0	166	1	267	0	0	268	1	0	0	0	1	0	0	0	0	0	435
5:15 - 5:30	0	181	1	0	182	0	277	0	0	277	0	0	0	0	0	0	0	0	0	0	459
5:30 - 5:45	0	172	0	0	172	0	252	0	0	252	0	0	1	0	1	0	0	0	0	0	425
5:45 - 6:00	0	184	0	0	184	0	222	0	0	222	0	0	0	0	0	0	0	0	0	0	406
6:00 - 6:15	0	159	2	0	161	1	191	0	0	192	0	0	0	0	0	0	0	0	0	0	353
6:15 - 6:30	0	154	0	0	154	3	210	0	0	213	0	0	1	0	1	0	0	0	0	0	368
6:30 - 6:45	0	114	0	0	114	1	218	0	0	219	0	0	2	0	2	0	0	0	0	0	335
6:45 - 7:00	0	139	1	0	140	0	229	0	0	229	0	0	1	0	1	0	0	0	0	0	370
<b>3 Hr Totals</b>	0	1958	5	0	1963	14	2869	0	0	2883	4	0	7	0	11	0	0	0	0	0	4857
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	689	1	0	690	8	1003	0	0	1011	3	0	2	0	5	0	0	0	0	0	1706
4:15 - 5:15	0	691	1	0	692	7	1007	0	0	1014	4	0	1	0	5	0	0	0	0	0	1711
4:30 - 5:30	0	703	1	0	704	5	1036	0	0	1041	3	0	0	0	3	0	0	0	0	0	1748
4:45 - 5:45	0	694	1	0	695	2	1052	0	0	1054	1	0	1	0	2	0	0	0	0	0	1751
5:00 - 6:00	0	703	1	0	704	1	1018	0	0	1019	1	0	1	0	2	0	0	0	0	0	1725
5:15 - 6:15	0	696	3	0	699	1	942	0	0	943	0	0	1	0	1	0	0	0	0	0	1643
5:30 - 6:30	0	669	2	0	671	4	875	0	0	879	0	0	2	0	2	0	0	0	0	0	1552
5:45 - 6:45	0	611	2	0	613	5	841	0	0	846	0	0	3	0	3	0	0	0	0	0	1462
6:00 - 7:00	0	566	3	0	569	5	848	0	0	853	0	0	4	0	4	0	0	0	0	0	1426
<b>PEAK HOUR</b>	0	694	1	0	695	2	1052	0	0	1054	1	0	1	0	2	0	0	0	0	0	1751
<b>4:45 - 5:45</b>	0	694	1	0	695	2	1052	0	0	1054	1	0	1	0	2	0	0	0	0	0	1751

**CARS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Hoffman Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday  
Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Hoffman Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W	
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL		
<b>AM</b>																						
6:30 - 6:45		273	0	0	273	1	80		0	81	0		2	0	2						0	356
6:45 - 7:00		235	0	0	235	0	72		0	72	0		1	0	1						0	308
7:00 - 7:15		298	0	0	298	0	99		0	99	2		0	0	2						0	399
7:15 - 7:30		250	1	0	251	0	130		0	130	1		1	0	2						0	383
7:30 - 7:45		228	0	1	229	1	144		0	145	1		1	0	2						0	376
7:45 - 8:00		276	0	0	276	0	99		0	99	0		2	0	2						0	377
8:00 - 8:15		232	0	0	232	0	136		0	136	0		0	0	0						0	368
8:15 - 8:30		210	0	0	210	1	112		0	113	0		0	0	0						0	323
8:30 - 8:45		237	0	0	237	0	134		0	134	0		2	0	2						0	373
8:45 - 9:00		200	0	0	200	1	116		0	117	0		0	0	0						0	317
9:00 - 9:15		195	0	0	195	0	111		0	111	0		0	0	0						0	306
9:15 - 9:30		159	0	0	159	0	130		0	130	0		1	0	1						0	290
<b>3 Hr Totals</b>	0	2793	1	1	2795	4	1363	0	0	1367	4	0	10	0	14	0	0	0	0	0	0	4176
<b>1 Hr Totals</b>																						
6:30 - 7:30	0	1056	1	0	1057	1	381	0	0	382	3	0	4	0	7	0	0	0	0	0	0	1446
6:45 - 7:45	0	1011	1	1	1013	1	445	0	0	446	4	0	3	0	7	0	0	0	0	0	0	1466
7:00 - 8:00	0	1052	1	1	1054	1	472	0	0	473	4	0	4	0	8	0	0	0	0	0	0	1535
7:15 - 8:15	0	986	1	1	988	1	509	0	0	510	2	0	4	0	6	0	0	0	0	0	0	1504
7:30 - 8:30	0	946	0	1	947	2	491	0	0	493	1	0	3	0	4	0	0	0	0	0	0	1444
7:45 - 8:45	0	955	0	0	955	1	481	0	0	482	0	0	4	0	4	0	0	0	0	0	0	1441
8:00 - 9:00	0	879	0	0	879	2	498	0	0	500	0	0	2	0	2	0	0	0	0	0	0	1381
8:15 - 9:15	0	842	0	0	842	2	473	0	0	475	0	0	2	0	2	0	0	0	0	0	0	1319
8:30 - 9:30	0	791	0	0	791	1	491	0	0	492	0	0	3	0	3	0	0	0	0	0	0	1286
<b>PEAK HOUR</b>	0	1052	1	1	1054	1	472	0	0	473	4	0	4	0	8	0	0	0	0	0	0	1535
<b>7:00 - 8:00</b>																						
<b>PM</b>																						
4:00 - 4:15		153	0	0	153	2	253		0	255	0		1	0	1						0	409
4:15 - 4:30		158	1	0	159	2	241		0	243	1		1	0	2						0	404
4:30 - 4:45		173	0	0	173	3	230		0	233	2		0	0	2						0	408
4:45 - 5:00		166	0	0	166	1	251		0	252	0		0	0	0						0	418
5:00 - 5:15		162	0	0	162	1	264		0	265	1		0	0	1						0	428
5:15 - 5:30		179	1	0	180	0	273		0	273	0		0	0	0						0	453
5:30 - 5:45		170	0	0	170	0	250		0	250	0		1	0	1						0	421
5:45 - 6:00		181	0	0	181	0	221		0	221	0		0	0	0						0	402
6:00 - 6:15		157	2	0	159	1	189		0	190	0		0	0	0						0	349
6:15 - 6:30		154	0	0	154	3	207		0	210	0		1	0	1						0	365
6:30 - 6:45		114	0	0	114	1	216		0	217	0		2	0	2						0	333
6:45 - 7:00		138	1	0	139	0	224		0	224	0		1	0	1						0	364
<b>3 Hr Totals</b>	0	1905	5	0	1910	14	2819	0	0	2833	4	0	7	0	11	0	0	0	0	0	0	4754
<b>1 Hr Totals</b>																						
4:00 - 5:00	0	650	1	0	651	8	975	0	0	983	3	0	2	0	5	0	0	0	0	0	0	1639
4:15 - 5:15	0	659	1	0	660	7	986	0	0	993	4	0	1	0	5	0	0	0	0	0	0	1658
4:30 - 5:30	0	680	1	0	681	5	1018	0	0	1023	3	0	0	0	3	0	0	0	0	0	0	1707
4:45 - 5:45	0	677	1	0	678	2	1038	0	0	1040	1	0	1	0	2	0	0	0	0	0	0	1720
5:00 - 6:00	0	692	1	0	693	1	1008	0	0	1009	1	0	1	0	2	0	0	0	0	0	0	1704
5:15 - 6:15	0	687	3	0	690	1	933	0	0	934	0	0	1	0	1	0	0	0	0	0	0	1625
5:30 - 6:30	0	662	2	0	664	4	867	0	0	871	0	0	2	0	2	0	0	0	0	0	0	1537
5:45 - 6:45	0	606	2	0	608	5	833	0	0	838	0	0	3	0	3	0	0	0	0	0	0	1449
6:00 - 7:00	0	563	3	0	566	5	836	0	0	841	0	0	4	0	4	0	0	0	0	0	0	1411
<b>PEAK HOUR</b>	0	677	1	0	678	2	1038	0	0	1040	1	0	1	0	2	0	0	0	0	0	0	1720
<b>4:45 - 5:45</b>	0	677	1	0	678	2	1038	0	0	1040	1	0	1	0	2	0	0	0	0	0	0	1720



**MEDIUMS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Hoffman Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Hoffman Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W	
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL		
<b>AM</b>																						
6:30 - 6:45		7	0	0	7	0	7		0	7	0		0	0	0						0	14
6:45 - 7:00		13	0	0	13	0	7		0	7	0		0	0	0						0	20
7:00 - 7:15		6	0	0	6	0	13		0	13	0		0	0	0						0	19
7:15 - 7:30		15	0	0	15	0	8		0	8	0		0	0	0						0	23
7:30 - 7:45		9	0	0	9	0	8		0	8	0		0	0	0						0	17
7:45 - 8:00		5	0	0	5	0	14		0	14	0		0	0	0						0	19
8:00 - 8:15		12	0	0	12	0	10		0	10	0		0	0	0						0	22
8:15 - 8:30		7	0	0	7	0	11		0	11	0		0	0	0						0	18
8:30 - 8:45		11	0	0	11	0	8		0	8	0		0	0	0						0	19
8:45 - 9:00		16	0	0	16	0	4		0	4	0		0	0	0						0	20
9:00 - 9:15		12	0	0	12	0	7		0	7	0		0	0	0						0	19
9:15 - 9:30		18	0	0	18	0	8		0	8	0		0	0	0						0	26
<b>3 Hr Totals</b>	0	131	0	0	131	0	105	0	0	105	0	0	0	0	0	0	0	0	0	0	0	236
<b>1 Hr Totals</b>																						
6:30 - 7:30	0	41	0	0	41	0	35	0	0	35	0	0	0	0	0	0	0	0	0	0	0	76
6:45 - 7:45	0	43	0	0	43	0	36	0	0	36	0	0	0	0	0	0	0	0	0	0	0	79
7:00 - 8:00	0	35	0	0	35	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0	78
7:15 - 8:15	0	41	0	0	41	0	40	0	0	40	0	0	0	0	0	0	0	0	0	0	0	81
7:30 - 8:30	0	33	0	0	33	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0	76
7:45 - 8:45	0	35	0	0	35	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0	78
8:00 - 9:00	0	46	0	0	46	0	33	0	0	33	0	0	0	0	0	0	0	0	0	0	0	79
8:15 - 9:15	0	46	0	0	46	0	30	0	0	30	0	0	0	0	0	0	0	0	0	0	0	76
8:30 - 9:30	0	57	0	0	57	0	27	0	0	27	0	0	0	0	0	0	0	0	0	0	0	84
<b>PEAK HOUR</b>	0	35	0	0	35	0	43	0	0	43	0	0	0	0	0	0	0	0	0	0	0	78
<b>7:00 - 8:00</b>																						
<b>PM</b>																						
4:00 - 4:15		10	0	0	10	0	9		0	9	0		0	0	0						0	19
4:15 - 4:30		9	0	0	9	0	6		0	6	0		0	0	0						0	15
4:30 - 4:45		8	0	0	8	0	6		0	6	0		0	0	0						0	14
4:45 - 5:00		6	0	0	6	0	3		0	3	0		0	0	0						0	9
5:00 - 5:15		4	0	0	4	0	2		0	2	0		0	0	0						0	6
5:15 - 5:30		1	0	0	1	0	4		0	4	0		0	0	0						0	5
5:30 - 5:45		1	0	0	1	0	2		0	2	0		0	0	0						0	3
5:45 - 6:00		3	0	0	3	0	0		0	0	0		0	0	0						0	3
6:00 - 6:15		2	0	0	2	0	2		0	2	0		0	0	0						0	4
6:15 - 6:30		0	0	0	0	0	3		0	3	0		0	0	0						0	3
6:30 - 6:45		0	0	0	0	0	1		0	1	0		0	0	0						0	1
6:45 - 7:00		1	0	0	1	0	4		0	4	0		0	0	0						0	5
<b>3 Hr Totals</b>	0	45	0	0	45	0	42	0	0	42	0	0	0	0	0	0	0	0	0	0	0	87
<b>1 Hr Totals</b>																						
4:00 - 5:00	0	33	0	0	33	0	24	0	0	24	0	0	0	0	0	0	0	0	0	0	0	57
4:15 - 5:15	0	27	0	0	27	0	17	0	0	17	0	0	0	0	0	0	0	0	0	0	0	44
4:30 - 5:30	0	19	0	0	19	0	15	0	0	15	0	0	0	0	0	0	0	0	0	0	0	34
4:45 - 5:45	0	12	0	0	12	0	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	23
5:00 - 6:00	0	9	0	0	9	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	17
5:15 - 6:15	0	7	0	0	7	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	15
5:30 - 6:30	0	6	0	0	6	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	13
5:45 - 6:45	0	5	0	0	5	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	11
6:00 - 7:00	0	3	0	0	3	0	10	0	0	10	0	0	0	0	0	0	0	0	0	0	0	13
<b>PEAK HOUR</b>	0	3	0	0	3	0	10	0	0	10	0	0	0	0	0	0	0	0	0	0	0	13
<b>4:45 - 5:45</b>	0	12	0	0	12	0	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	23

**HEAVY TRUCKS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Hoffman Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Hoffman Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W	
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL		
<b>AM</b>																						
6:30 - 6:45		2	0	0	2	0	0		0	0	0		0	0	0						0	2
6:45 - 7:00		4	0	0	4	0	0		0	0	0		0	0	0						0	4
7:00 - 7:15		3	0	0	3	0	2		0	2	0		0	0	0						0	5
7:15 - 7:30		6	0	0	6	0	0		0	0	0		0	0	0						0	6
7:30 - 7:45		4	0	0	4	0	0		0	0	0		0	0	0						0	4
7:45 - 8:00		3	0	0	3	0	1		0	1	0		0	0	0						0	4
8:00 - 8:15		1	0	0	1	0	0		0	0	0		0	0	0						0	1
8:15 - 8:30		1	0	0	1	0	1		0	1	0		0	0	0						0	2
8:30 - 8:45		3	0	0	3	0	1		0	1	0		0	0	0						0	4
8:45 - 9:00		0	0	0	0	0	2		0	2	0		0	0	0						0	2
9:00 - 9:15		3	0	0	3	0	0		0	0	0		0	0	0						0	3
9:15 - 9:30		3	0	0	3	0	4		0	4	0		0	0	0						0	7
<b>3 Hr Totals</b>	0	33	0	0	33	0	11	0	0	11	0	0	0	0	0	0	0	0	0	0	0	44
<b>1 Hr Totals</b>																						
6:30 - 7:30	0	15	0	0	15	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	17
6:45 - 7:45	0	17	0	0	17	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	19
7:00 - 8:00	0	16	0	0	16	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	19
7:15 - 8:15	0	14	0	0	14	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	15
7:30 - 8:30	0	9	0	0	9	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	11
7:45 - 8:45	0	8	0	0	8	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	11
8:00 - 9:00	0	5	0	0	5	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	9
8:15 - 9:15	0	7	0	0	7	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	11
8:30 - 9:30	0	9	0	0	9	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	16
<b>PEAK HOUR</b>																						
<b>7:00 - 8:00</b>	0	16	0	0	16	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	19
<b>PM</b>																						
4:00 - 4:15		1	0	0	1	0	1		0	1	0		0	0	0						0	2
4:15 - 4:30		2	0	0	2	0	1		0	1	0		0	0	0						0	3
4:30 - 4:45		0	0	0	0	0	0		0	0	0		0	0	0						0	0
4:45 - 5:00		3	0	0	3	0	2		0	2	0		0	0	0						0	5
5:00 - 5:15		0	0	0	0	0	1		0	1	0		0	0	0						0	1
5:15 - 5:30		1	0	0	1	0	0		0	0	0		0	0	0						0	1
5:30 - 5:45		1	0	0	1	0	0		0	0	0		0	0	0						0	1
5:45 - 6:00		0	0	0	0	0	1		0	1	0		0	0	0						0	1
6:00 - 6:15		0	0	0	0	0	0		0	0	0		0	0	0						0	0
6:15 - 6:30		0	0	0	0	0	0		0	0	0		0	0	0						0	0
6:30 - 6:45		0	0	0	0	0	1		0	1	0		0	0	0						0	1
6:45 - 7:00		0	0	0	0	0	1		0	1	0		0	0	0						0	1
<b>3 Hr Totals</b>	0	8	0	0	8	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	16
<b>1 Hr Totals</b>																						
4:00 - 5:00	0	6	0	0	6	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	10
4:15 - 5:15	0	5	0	0	5	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	9
4:30 - 5:30	0	4	0	0	4	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	7
4:45 - 5:45	0	5	0	0	5	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	8
5:00 - 6:00	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4
5:15 - 6:15	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
5:30 - 6:30	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
5:45 - 6:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
6:00 - 7:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
<b>PEAK HOUR</b>																						
<b>4:45 - 5:45</b>	0	5	0	0	5	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	8

**BICYCLES TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: MD 27  
and: Hoffman Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: MD 27					TRAFFIC FROM SOUTH on: MD 27					TRAFFIC FROM EAST on: Hoffman Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 - 7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 - 8:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 - 8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 8:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3 Hr Totals</b>	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 8:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 - 8:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:30 - 8:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 - 8:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PEAK HOUR</b>																					
<b>7:00 - 8:00</b>	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>PM</b>																					
4:00 - 4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 - 4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 - 4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 6:15	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
6:15 - 6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>3 Hr Totals</b>	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 - 5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 - 6:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 - 6:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 - 6:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
6:00 - 7:00	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
<b>PEAK HOUR</b>																					
<b>4:45 - 5:45</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**PEDESTRIAN AND BICYCLE OBSERVATIONS - SUMMARY**

Intersection of: MD 27  
and: Hoffman Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday  
Star Rating: 4



TIME	NORTH LEG MD 27		SOUTH LEG MD 27	
	Pedestrians	Bicycles	Pedestrians	Bicycles
<b>AM</b>				
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
7:00 - 7:15	0	0	0	0
7:15 - 7:30	0	0	0	0
7:30 - 7:45	0	0	0	0
7:45 - 8:00	0	0	0	0
8:00 - 8:15	0	0	0	0
8:15 - 8:30	0	0	0	0
8:30 - 8:45	0	0	0	0
8:45 - 9:00	0	0	0	0
9:00 - 9:15	0	0	0	0
9:15 - 9:30	0	0	0	0
<b>TOTALS</b>	0	0	0	0
<b>PM</b>				
4:00 - 4:15	0	0	0	0
4:15 - 4:30	0	0	0	0
4:30 - 4:45	0	0	0	0
4:45 - 5:00	0	0	0	0
5:00 - 5:15	0	0	0	0
5:15 - 5:30	0	0	0	0
5:30 - 5:45	0	0	0	0
5:45 - 6:00	0	0	0	0
6:00 - 6:15	0	0	0	0
6:15 - 6:30	0	0	0	0
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
<b>TOTALS</b>	0	0	0	0

	EAST LEG Hoffman Drive		WEST LEG	
	Pedestrians	Bicycles	Pedestrians	Bicycles
<b>AM</b>				
6:30 - 6:45	0	0		
6:45 - 7:00	0	0		
7:00 - 7:15	0	0		
7:15 - 7:30	0	0		
7:30 - 7:45	0	0		
7:45 - 8:00	0	0		
8:00 - 8:15	0	0		
8:15 - 8:30	0	0		
8:30 - 8:45	0	0		
8:45 - 9:00	0	0		
9:00 - 9:15	0	0		
9:15 - 9:30	0	0		
<b>TOTALS</b>	0	0	0	0
<b>PM</b>				
4:00 - 4:15	0	0		
4:15 - 4:30	0	0		
4:30 - 4:45	0	0		
4:45 - 5:00	0	0		
5:00 - 5:15	0	0		
5:15 - 5:30	0	0		
5:30 - 5:45	0	0		
5:45 - 6:00	0	0		
6:00 - 6:15	0	0		
6:15 - 6:30	0	0		
6:30 - 6:45	0	0		
6:45 - 7:00	0	0		
<b>TOTALS</b>	0	0	0	0



**TOTALS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: Kings Valley Road  
and: Preakness Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: Kings Valley Road					TRAFFIC FROM SOUTH on: Kings Valley Road					TRAFFIC FROM EAST on: Preakness Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	0	1	0	1	0	5	0	0	5	10	0	2	0	12	0	0	0	0	0	18
6:45 - 7:00	0	3	0	0	3	0	8	0	0	8	5	0	1	0	6	0	0	0	0	0	17
7:00 - 7:15	0	2	0	0	2	0	10	0	0	10	9	0	1	0	10	0	0	0	0	0	22
7:15 - 7:30	0	7	2	0	9	1	15	0	0	16	14	0	5	0	19	0	0	0	0	0	44
7:30 - 7:45	0	12	5	0	17	2	14	0	0	16	9	0	6	0	15	0	0	0	0	0	48
7:45 - 8:00	0	1	2	0	3	1	16	0	0	17	8	0	3	0	11	0	0	0	0	0	31
8:00 - 8:15	0	11	4	0	15	1	8	0	0	9	12	0	6	0	18	0	0	0	0	0	42
8:15 - 8:30	0	2	5	0	7	3	11	0	0	14	8	0	7	0	15	0	0	0	0	0	36
8:30 - 8:45	0	4	7	0	11	0	11	0	0	11	10	0	2	0	12	0	0	0	0	0	34
8:45 - 9:00	0	4	6	0	10	2	6	0	0	8	6	0	2	0	8	0	0	0	0	0	26
9:00 - 9:15	0	5	5	0	10	4	1	0	0	5	7	0	3	0	10	0	0	0	0	0	25
9:15 - 9:30	0	12	3	0	15	4	8	0	0	12	6	0	3	0	9	0	0	0	0	0	36
<b>3 Hr Totals</b>	0	63	40	0	103	18	113	0	0	131	104	0	41	0	145	0	0	0	0	0	379
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	12	3	0	15	1	38	0	0	39	38	0	9	0	47	0	0	0	0	0	101
6:45 - 7:45	0	24	7	0	31	3	47	0	0	50	37	0	13	0	50	0	0	0	0	0	131
7:00 - 8:00	0	22	9	0	31	4	55	0	0	59	40	0	15	0	55	0	0	0	0	0	145
7:15 - 8:15	0	31	13	0	44	5	53	0	0	58	43	0	20	0	63	0	0	0	0	0	165
7:30 - 8:30	0	26	16	0	42	7	49	0	0	56	37	0	22	0	59	0	0	0	0	0	157
7:45 - 8:45	0	18	18	0	36	5	46	0	0	51	38	0	18	0	56	0	0	0	0	0	143
8:00 - 9:00	0	21	22	0	43	6	36	0	0	42	36	0	17	0	53	0	0	0	0	0	138
8:15 - 9:15	0	15	23	0	38	9	29	0	0	38	31	0	14	0	45	0	0	0	0	0	121
8:30 - 9:30	0	25	21	0	46	10	26	0	0	36	29	0	10	0	39	0	0	0	0	0	121
<b>PEAK HOUR</b>																					
<b>7:15 - 8:15</b>	0	31	13	0	44	5	53	0	0	58	43	0	20	0	63	0	0	0	0	0	165
<b>PM</b>																					
4:00 - 4:15	0	8	20	0	28	11	8	0	0	19	13	0	1	0	14	0	0	0	0	0	61
4:15 - 4:30	0	6	12	0	18	6	9	0	0	15	3	0	1	0	4	0	0	0	0	0	37
4:30 - 4:45	0	12	8	0	20	6	14	0	0	20	9	0	2	0	11	0	0	0	0	0	51
4:45 - 5:00	0	27	8	0	35	5	18	0	0	23	7	0	3	0	10	0	0	0	0	0	68
5:00 - 5:15	0	23	7	0	30	3	19	0	0	22	8	0	5	0	13	0	0	0	0	0	65
5:15 - 5:30	0	28	12	0	40	5	15	0	0	20	2	0	3	0	5	0	0	0	0	0	65
5:30 - 5:45	0	27	9	0	36	7	14	0	0	21	6	0	1	0	7	0	0	0	0	0	64
5:45 - 6:00	0	27	8	0	35	4	13	0	0	17	4	0	2	0	6	0	0	0	0	0	58
6:00 - 6:15	0	23	9	0	32	4	15	0	0	19	4	0	3	0	7	0	0	0	0	0	58
6:15 - 6:30	0	20	5	0	25	6	18	0	0	24	8	0	3	0	11	0	0	0	0	0	60
6:30 - 6:45	0	17	15	0	32	5	13	0	0	18	3	0	2	0	5	0	0	0	0	0	55
6:45 - 7:00	0	22	9	0	31	1	16	0	0	17	3	0	2	0	5	0	0	0	0	0	53
<b>3 Hr Totals</b>	0	240	122	0	362	63	172	0	0	235	70	0	28	0	98	0	0	0	0	0	695
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	53	48	0	101	28	49	0	0	77	32	0	7	0	39	0	0	0	0	0	217
4:15 - 5:15	0	68	35	0	103	20	60	0	0	80	27	0	11	0	38	0	0	0	0	0	221
4:30 - 5:30	0	90	35	0	125	19	66	0	0	85	26	0	13	0	39	0	0	0	0	0	249
4:45 - 5:45	0	105	36	0	141	20	66	0	0	86	23	0	12	0	35	0	0	0	0	0	262
5:00 - 6:00	0	105	36	0	141	19	61	0	0	80	20	0	11	0	31	0	0	0	0	0	252
5:15 - 6:15	0	105	38	0	143	20	57	0	0	77	16	0	9	0	25	0	0	0	0	0	245
5:30 - 6:30	0	97	31	0	128	21	60	0	0	81	22	0	9	0	31	0	0	0	0	0	240
5:45 - 6:45	0	87	37	0	124	19	59	0	0	78	19	0	10	0	29	0	0	0	0	0	231
6:00 - 7:00	0	82	38	0	120	16	62	0	0	78	18	0	10	0	28	0	0	0	0	0	226
<b>PEAK HOUR</b>																					
<b>4:45 - 5:45</b>	0	105	36	0	141	20	66	0	0	86	23	0	12	0	35	0	0	0	0	0	262

**CARS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: Kings Valley Road  
and: Preakness Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: Kings Valley Road					TRAFFIC FROM SOUTH on: Kings Valley Road					TRAFFIC FROM EAST on: Preakness Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	1	0	1	2	0	5	0	5	10	10	2	0	12	22	0	0	0	0	0	18
6:45 - 7:00	3	0	0	3	6	0	8	0	8	5	5	1	0	6	11	0	0	0	0	0	17
7:00 - 7:15	2	0	0	2	4	0	9	0	9	8	8	1	0	9	17	0	0	0	0	0	20
7:15 - 7:30	6	2	0	8	16	1	15	0	16	14	14	5	0	19	33	0	0	0	0	0	43
7:30 - 7:45	10	4	0	14	24	2	14	0	16	9	9	6	0	15	24	0	0	0	0	0	45
7:45 - 8:00	1	2	0	3	6	1	15	0	16	8	8	3	0	11	19	0	0	0	0	0	30
8:00 - 8:15	9	3	0	12	24	1	8	0	9	11	11	6	0	17	25	0	0	0	0	0	38
8:15 - 8:30	2	5	0	7	14	3	10	0	13	7	7	7	0	14	21	0	0	0	0	0	34
8:30 - 8:45	4	6	0	10	20	0	11	0	11	9	9	2	0	11	20	0	0	0	0	0	32
8:45 - 9:00	4	6	0	10	20	2	6	0	8	6	6	2	0	8	14	0	0	0	0	0	26
9:00 - 9:15	5	5	0	10	20	4	1	0	5	7	7	3	0	10	17	0	0	0	0	0	25
9:15 - 9:30	11	3	0	14	28	4	8	0	12	6	6	3	0	9	15	0	0	0	0	0	35
<b>3 Hr Totals</b>	0	57	37	0	94	18	110	0	0	128	100	0	41	0	141	0	0	0	0	0	363
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	11	3	0	14	1	37	0	0	38	37	0	9	0	46	0	0	0	0	0	98
6:45 - 7:45	0	21	6	0	27	3	46	0	0	49	36	0	13	0	49	0	0	0	0	0	125
7:00 - 8:00	0	19	8	0	27	4	53	0	0	57	39	0	15	0	54	0	0	0	0	0	138
7:15 - 8:15	0	26	11	0	37	5	52	0	0	57	42	0	20	0	62	0	0	0	0	0	156
7:30 - 8:30	0	22	14	0	36	7	47	0	0	54	35	0	22	0	57	0	0	0	0	0	147
7:45 - 8:45	0	16	16	0	32	5	44	0	0	49	35	0	18	0	53	0	0	0	0	0	134
8:00 - 9:00	0	19	20	0	39	6	35	0	0	41	33	0	17	0	50	0	0	0	0	0	130
8:15 - 9:15	0	15	22	0	37	9	28	0	0	37	29	0	14	0	43	0	0	0	0	0	117
8:30 - 9:30	0	24	20	0	44	10	26	0	0	36	28	0	10	0	38	0	0	0	0	0	118
<b>PEAK HOUR</b>	0	26	11	0	37	5	52	0	0	57	42	0	20	0	62	0	0	0	0	0	156
<b>7:15 - 8:15</b>																					
<b>PM</b>																					
4:00 - 4:15	8	20	0	28	48	11	7	0	18	12	12	1	0	13	25	0	0	0	0	0	59
4:15 - 4:30	6	12	0	18	36	6	8	0	14	3	3	1	0	4	7	0	0	0	0	0	36
4:30 - 4:45	12	8	0	20	40	6	14	0	20	9	9	2	0	11	20	0	0	0	0	0	51
4:45 - 5:00	27	8	0	35	60	5	18	0	23	7	7	3	0	10	17	0	0	0	0	0	68
5:00 - 5:15	22	7	0	29	58	3	19	0	22	8	8	5	0	13	21	0	0	0	0	0	64
5:15 - 5:30	28	12	0	40	80	5	15	0	20	2	2	3	0	5	7	0	0	0	0	0	65
5:30 - 5:45	27	9	0	36	72	7	14	0	21	6	6	1	0	7	13	0	0	0	0	0	64
5:45 - 6:00	27	8	0	35	70	4	13	0	17	4	4	2	0	6	10	0	0	0	0	0	58
6:00 - 6:15	22	9	0	31	60	4	14	0	18	4	4	3	0	7	11	0	0	0	0	0	56
6:15 - 6:30	20	5	0	25	50	6	18	0	24	8	8	3	0	11	15	0	0	0	0	0	60
6:30 - 6:45	17	15	0	32	64	5	13	0	18	3	3	2	0	5	8	0	0	0	0	0	55
6:45 - 7:00	22	9	0	31	60	1	16	0	17	3	3	2	0	5	8	0	0	0	0	0	53
<b>3 Hr Totals</b>	0	238	122	0	360	63	169	0	0	232	69	0	28	0	97	0	0	0	0	0	689
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	53	48	0	101	28	47	0	0	75	31	0	7	0	38	0	0	0	0	0	214
4:15 - 5:15	0	67	35	0	102	20	59	0	0	79	27	0	11	0	38	0	0	0	0	0	219
4:30 - 5:30	0	89	35	0	124	19	66	0	0	85	26	0	13	0	39	0	0	0	0	0	248
4:45 - 5:45	0	104	36	0	140	20	66	0	0	86	23	0	12	0	35	0	0	0	0	0	261
5:00 - 6:00	0	104	36	0	140	19	61	0	0	80	20	0	11	0	31	0	0	0	0	0	251
5:15 - 6:15	0	104	38	0	142	20	56	0	0	76	16	0	9	0	25	0	0	0	0	0	243
5:30 - 6:30	0	96	31	0	127	21	59	0	0	80	22	0	9	0	31	0	0	0	0	0	238
5:45 - 6:45	0	86	37	0	123	19	58	0	0	77	19	0	10	0	29	0	0	0	0	0	229
6:00 - 7:00	0	81	38	0	119	16	61	0	0	77	18	0	10	0	28	0	0	0	0	0	224
<b>PEAK HOUR</b>	0	104	36	0	140	20	66	0	0	86	23	0	12	0	35	0	0	0	0	0	261
<b>4:45 - 5:45</b>	0	104	36	0	140	20	66	0	0	86	23	0	12	0	35	0	0	0	0	0	261

**MEDIUMS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: Kings Valley Road  
and: Preakness Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: Kings Valley Road					TRAFFIC FROM SOUTH on: Kings Valley Road					TRAFFIC FROM EAST on: Preakness Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 7:15	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
7:15 - 7:30	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:30 - 7:45	2	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7:45 - 8:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:00 - 8:15	2	1	0	0	3	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	4
8:15 - 8:30	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
8:30 - 8:45	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
8:45 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>3 Hr Totals</b>	0	6	3	0	9	0	3	0	0	3	4	0	0	0	4	0	0	0	0	0	16
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	1	0	0	1	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	3
6:45 - 7:45	0	3	1	0	4	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	6
7:00 - 8:00	0	3	1	0	4	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	7
7:15 - 8:15	0	5	2	0	7	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	9
7:30 - 8:30	0	4	2	0	6	0	2	0	0	2	2	0	0	0	2	0	0	0	0	0	10
7:45 - 8:45	0	2	2	0	4	0	2	0	0	2	3	0	0	0	3	0	0	0	0	0	9
8:00 - 9:00	0	2	2	0	4	0	1	0	0	1	3	0	0	0	3	0	0	0	0	0	8
8:15 - 9:15	0	0	1	0	1	0	1	0	0	1	2	0	0	0	2	0	0	0	0	0	4
8:30 - 9:30	0	1	1	0	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
<b>PEAK HOUR</b>																					
<b>7:15 - 8:15</b>	0	5	2	0	7	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	9
<b>PM</b>																					
4:00 - 4:15	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
4:15 - 4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 - 4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 5:15	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 6:15	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
6:15 - 6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3 Hr Totals</b>	0	2	0	0	2	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	5
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
4:15 - 5:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 - 5:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:45 - 5:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 - 6:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 - 6:15	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
5:30 - 6:30	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
5:45 - 6:45	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
6:00 - 7:00	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
<b>PEAK HOUR</b>																					
<b>4:45 - 5:45</b>	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1



**HEAVY TRUCKS TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: Kings Valley Road  
and: Preakness Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: Kings Valley Road					TRAFFIC FROM SOUTH on: Kings Valley Road					TRAFFIC FROM EAST on: Preakness Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	
<b>AM</b>																					
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 - 7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 - 8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 - 8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 8:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3 Hr Totals</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>1 Hr Totals</b>																					
6:30 - 7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 - 8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 - 8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 - 8:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PEAK HOUR</b>																					
<b>7:15 - 8:15</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PM</b>																					
4:00 - 4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 - 4:30	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4:30 - 4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 - 6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>3 Hr Totals</b>	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<b>1 Hr Totals</b>																					
4:00 - 5:00	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4:15 - 5:15	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4:30 - 5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 - 5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 - 6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 - 6:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 - 6:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PEAK HOUR</b>																					
<b>4:45 - 5:45</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**BICYCLES TURNING MOVEMENT COUNT - SUMMARY**

Intersection of: Kings Valley Road  
and: Preakness Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday

Star Rating: 4



TIME	TRAFFIC FROM NORTH on: Kings Valley Road					TRAFFIC FROM SOUTH on: Kings Valley Road					TRAFFIC FROM EAST on: Preakness Drive					TRAFFIC FROM WEST on:					TOTAL N + S + E + W	
	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL	RIGHT	THRU	LEFT	U-TN	TOTAL		
<b>AM</b>																						
6:30 - 6:45	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
6:45 - 7:00	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
7:00 - 7:15	1	0	0	0	1	0	0		0	0	0		0	0	0						0	1
7:15 - 7:30	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
7:30 - 7:45	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
7:45 - 8:00	0	0	0	0	0	0	1		0	1	0		0	0	0						0	1
8:00 - 8:15	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
8:15 - 8:30	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
8:30 - 8:45	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
8:45 - 9:00	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
9:00 - 9:15	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
9:15 - 9:30	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
<b>3 Hr Totals</b>	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
<b>1 Hr Totals</b>																						
6:30 - 7:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:45 - 7:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:00 - 8:00	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
7:15 - 8:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7:30 - 8:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7:45 - 8:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
8:00 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 - 9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 - 9:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PEAK HOUR</b>																						
<b>7:15 - 8:15</b>	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
<b>PM</b>																						
4:00 - 4:15	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
4:15 - 4:30	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
4:30 - 4:45	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
4:45 - 5:00	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
5:00 - 5:15	0	0	0	0	0	0	1		0	1	0		0	0	0						0	1
5:15 - 5:30	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
5:30 - 5:45	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
5:45 - 6:00	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
6:00 - 6:15	1	0	0	0	1	0	0		0	0	0		0	0	0						0	1
6:15 - 6:30	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
6:30 - 6:45	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
6:45 - 7:00	0	0	0	0	0	0	0		0	0	0		0	0	0						0	0
<b>3 Hr Totals</b>	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
<b>1 Hr Totals</b>																						
4:00 - 5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 - 5:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4:30 - 5:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4:45 - 5:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00 - 6:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:15 - 6:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 - 6:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 - 6:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6:00 - 7:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<b>PEAK HOUR</b>																						
<b>4:45 - 5:45</b>	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1

**PEDESTRIAN AND BICYCLE OBSERVATIONS - SUMMARY**

Intersection of: Kings Valley Road  
and: Preakness Drive  
Location: Montgomery County, Maryland

Counted by: VCU  
Date: May 25, 2022  
Weather: Sunny/Warm  
Entered by: SN

Wednesday  
Star Rating: 4



TIME	NORTH LEG Kings Valley Road		SOUTH LEG Kings Valley Road	
	Pedestrians	Bicycles	Pedestrians	Bicycles
<b>AM</b>				
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
7:00 - 7:15	0	0	0	0
7:15 - 7:30	0	0	0	0
7:30 - 7:45	0	0	0	0
7:45 - 8:00	0	0	0	0
8:00 - 8:15	0	0	0	0
8:15 - 8:30	0	0	0	0
8:30 - 8:45	0	0	0	0
8:45 - 9:00	0	0	0	0
9:00 - 9:15	0	0	0	0
9:15 - 9:30	0	0	0	0
<b>TOTALS</b>	0	0	0	0
<b>PM</b>				
4:00 - 4:15	0	0	0	0
4:15 - 4:30	0	0	0	0
4:30 - 4:45	0	0	0	0
4:45 - 5:00	0	0	0	0
5:00 - 5:15	0	0	0	0
5:15 - 5:30	0	0	0	0
5:30 - 5:45	0	0	0	0
5:45 - 6:00	0	0	0	0
6:00 - 6:15	0	0	0	0
6:15 - 6:30	0	0	0	0
6:30 - 6:45	0	0	0	0
6:45 - 7:00	0	0	0	0
<b>TOTALS</b>	0	0	0	0

	EAST LEG Preakness Drive		WEST LEG	
	Pedestrians	Bicycles	Pedestrians	Bicycles
<b>AM</b>				
6:30 - 6:45	1	0		
6:45 - 7:00	0	0		
7:00 - 7:15	0	0		
7:15 - 7:30	0	0		
7:30 - 7:45	0	0		
7:45 - 8:00	0	0		
8:00 - 8:15	0	0		
8:15 - 8:30	0	0		
8:30 - 8:45	0	0		
8:45 - 9:00	0	0		
9:00 - 9:15	0	0		
9:15 - 9:30	0	0		
<b>TOTALS</b>	1	0	0	0
<b>PM</b>				
4:00 - 4:15	0	0		
4:15 - 4:30	0	0		
4:30 - 4:45	0	0		
4:45 - 5:00	1	0		
5:00 - 5:15	0	0		
5:15 - 5:30	0	0		
5:30 - 5:45	0	0		
5:45 - 6:00	0	0		
6:00 - 6:15	0	0		
6:15 - 6:30	0	0		
6:30 - 6:45	0	0		
6:45 - 7:00	0	0		
<b>TOTALS</b>	1	0	0	0

Kings Valley Road & Preakness Drive

Legend



Preakness Dr

Show Pony Pl

Kings Valley Rd



Kings Valley Road & Glade Valley Terrace

Legend



Glade Valley Terrace

Kings Valley Rd



# The Traffic Group, Inc.

(800) 583-8411

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Merging Innovation and Excellence

Kings Valley Road  
North of Preakness Drive  
Montgomery County, Maryland

Northbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	
05/25/22	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	3
03:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	1	2	1	0	0	1	1	0	0	0	0	0	0	6
05:00	0	0	2	10	2	1	1	4	1	0	0	0	0	0	0	21
06:00	0	0	5	18	3	1	5	10	2	2	0	0	0	0	0	46
07:00	0	0	3	31	8	5	16	19	8	5	0	0	0	0	0	95
08:00	0	0	6	28	5	5	7	15	5	3	1	0	0	0	0	75
09:00	0	0	4	25	0	1	6	9	0	0	0	0	1	0	0	46
10:00	0	0	4	14	3	3	5	6	3	0	0	0	0	0	0	38
11:00	0	0	1	16	4	4	8	14	3	0	0	0	0	0	0	50
12 PM	0	0	6	19	2	3	9	4	4	0	0	0	0	0	0	47
13:00	0	0	2	14	2	7	10	9	6	0	0	1	0	0	0	51
14:00	0	0	6	8	4	6	8	7	5	0	0	0	0	0	0	44
15:00	0	2	2	14	4	9	19	12	7	1	0	0	0	0	0	70
16:00	0	0	4	26	7	13	11	11	7	3	0	0	0	0	0	82
17:00	0	1	0	17	6	5	22	21	6	4	0	0	0	0	0	82
18:00	0	0	3	15	5	12	19	16	10	0	0	0	0	0	0	80
19:00	0	0	4	6	6	25	22	13	2	1	1	0	0	0	0	80
20:00	0	0	0	5	4	34	48	21	4	1	0	0	0	0	0	117
21:00	0	0	1	2	3	8	7	7	3	1	0	0	0	0	0	32
22:00	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	5
23:00	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	4
<b>Total</b>	<b>0</b>	<b>3</b>	<b>54</b>	<b>273</b>	<b>72</b>	<b>143</b>	<b>228</b>	<b>201</b>	<b>78</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1078</b>
<b>Grand Total</b>	<b>0</b>	<b>3</b>	<b>54</b>	<b>273</b>	<b>72</b>	<b>143</b>	<b>228</b>	<b>201</b>	<b>78</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1078</b>

Stats

- 15th Percentile : 16 MPH
- 50th Percentile : 29 MPH
- 85th Percentile : 38 MPH
- 95th Percentile : 43 MPH

Mean Speed(Average) : 29 MPH

10 MPH Pace Speed : 31-40 MPH

- Number in Pace : 429
- Percent in Pace : 39.8%
- Number of Vehicles > 25 MPH : 676
- Percent of Vehicles > 25 MPH : 62.7%

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Merging Innovation and Excellence

Kings Valley Road  
North of Preakness Drive  
Montgomery County, Maryland

Southbound

Start Time	0	6	11	16	21	26	31	36	41	46	51	56	61	66	71	Total
Time	5	10	15	20	25	30	35	40	45	50	55	60	65	70	250	
05/25/22	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	1	1	2	0	0	1	0	0	0	0	0	0	5
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
05:00	0	0	1	3	0	3	0	2	1	0	0	0	0	0	0	10
06:00	0	0	0	2	1	0	2	3	3	1	0	0	0	0	0	12
07:00	0	1	1	3	5	1	4	10	4	1	0	1	0	0	0	31
08:00	0	0	1	9	14	2	5	10	0	1	0	0	0	0	0	42
09:00	0	0	0	8	7	4	19	5	2	0	0	0	0	0	0	45
10:00	0	0	1	8	4	2	6	5	5	0	0	0	0	0	0	31
11:00	0	0	3	12	14	3	4	7	5	2	0	0	0	0	0	50
12 PM	0	0	0	13	12	1	5	9	3	0	0	0	0	0	0	43
13:00	0	0	0	15	6	7	12	10	2	0	0	0	0	0	0	52
14:00	0	0	0	15	12	9	10	8	3	1	1	0	0	0	0	59
15:00	0	0	3	29	11	6	12	13	3	2	0	0	0	0	0	79
16:00	0	0	1	33	19	6	20	19	2	1	0	0	0	0	0	101
17:00	0	0	1	19	20	10	30	36	24	1	0	0	0	0	0	141
18:00	0	0	3	23	18	12	35	22	4	2	1	1	0	0	0	121
19:00	0	0	1	20	18	11	20	15	1	1	2	0	0	0	0	89
20:00	0	0	5	18	3	5	6	11	1	2	0	0	0	0	0	51
21:00	0	0	0	11	3	9	6	4	2	0	0	0	0	0	0	35
22:00	0	0	2	9	0	1	2	3	1	0	0	0	0	0	0	18
23:00	0	0	1	4	0	0	1	1	0	0	1	0	0	0	0	8
Total	0	1	24	256	172	94	199	194	67	15	5	2	0	0	0	1029
Grand Total	0	1	24	256	172	94	199	194	67	15	5	2	0	0	0	1029

Stats	15th Percentile :	17 MPH
	50th Percentile :	28 MPH
	85th Percentile :	38 MPH
	95th Percentile :	42 MPH
	Mean Speed(Average) :	29 MPH
	10 MPH Pace Speed :	16-25 MPH
	Number in Pace :	428
	Percent in Pace :	41.6%
	Number of Vehicles > 25 MPH :	576
	Percent of Vehicles > 25 MPH :	56.0%

# APPENDIX B

## Intersection Capacity Analysis Worksheets





# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Kings Valley Road

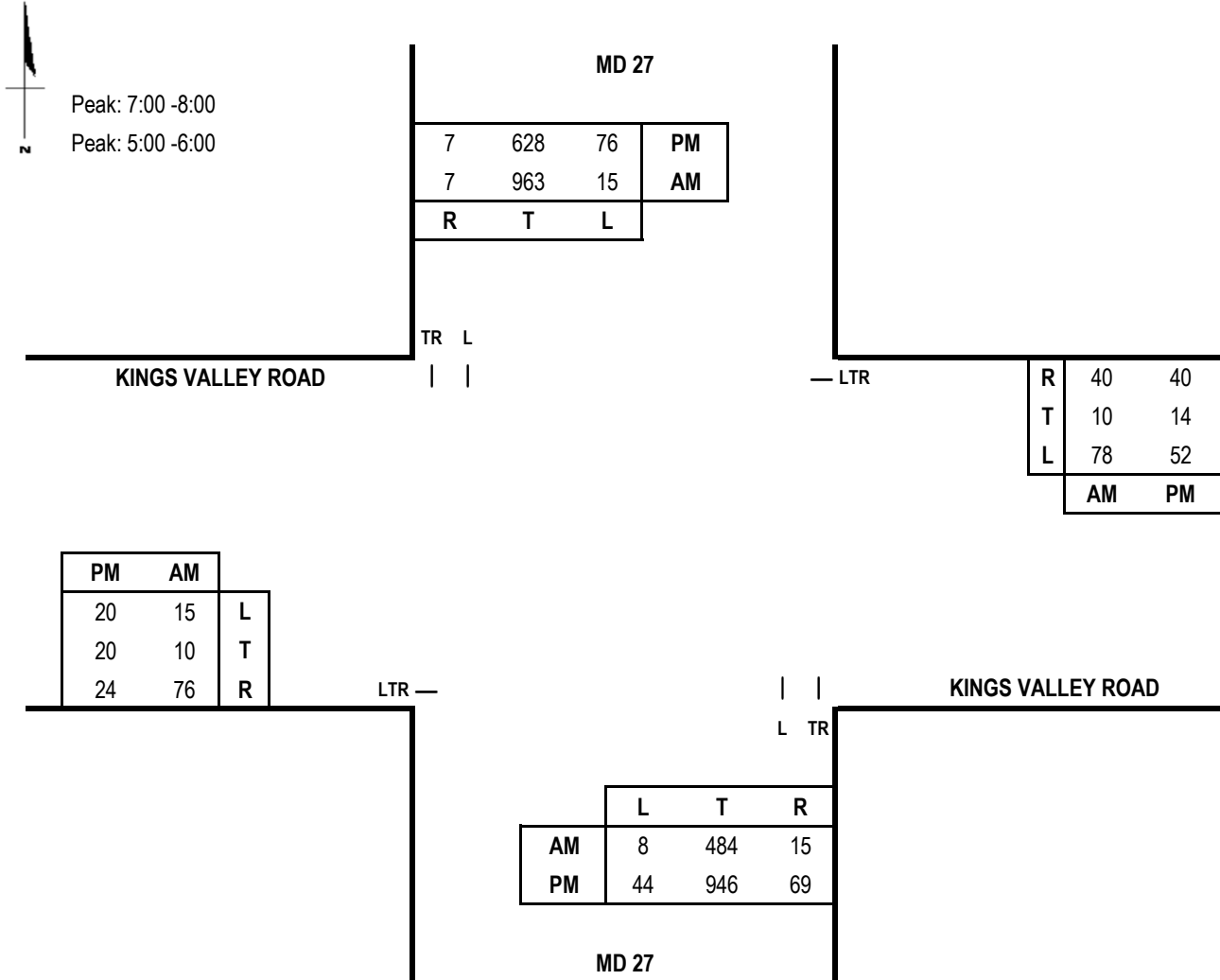
**Date of Count:** 5/25/2022

**N/S Road:** MD 27

**Day of Count:** Wednesday

**Conditions:** Existing Traffic

**Analyst:** Qiang Tian



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
NB	499	1.00	499	15	1.00	15	978
SB	970	1.00	970	8	1.00	8	
EB	101	1.00	101	78	1.00	78	179
WB	128	1.00	128	15	1.00	15	
CLV TOTAL=							<b>1,157</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
NB	1015	1.00	1015	76	1.00	76	1091
SB	635	1.00	635	44	1.00	44	
EB	64	1.00	64	52	1.00	52	126
WB	106	1.00	106	20	1.00	20	
CLV TOTAL=							<b>1,217</b>

# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Kings Valley Road

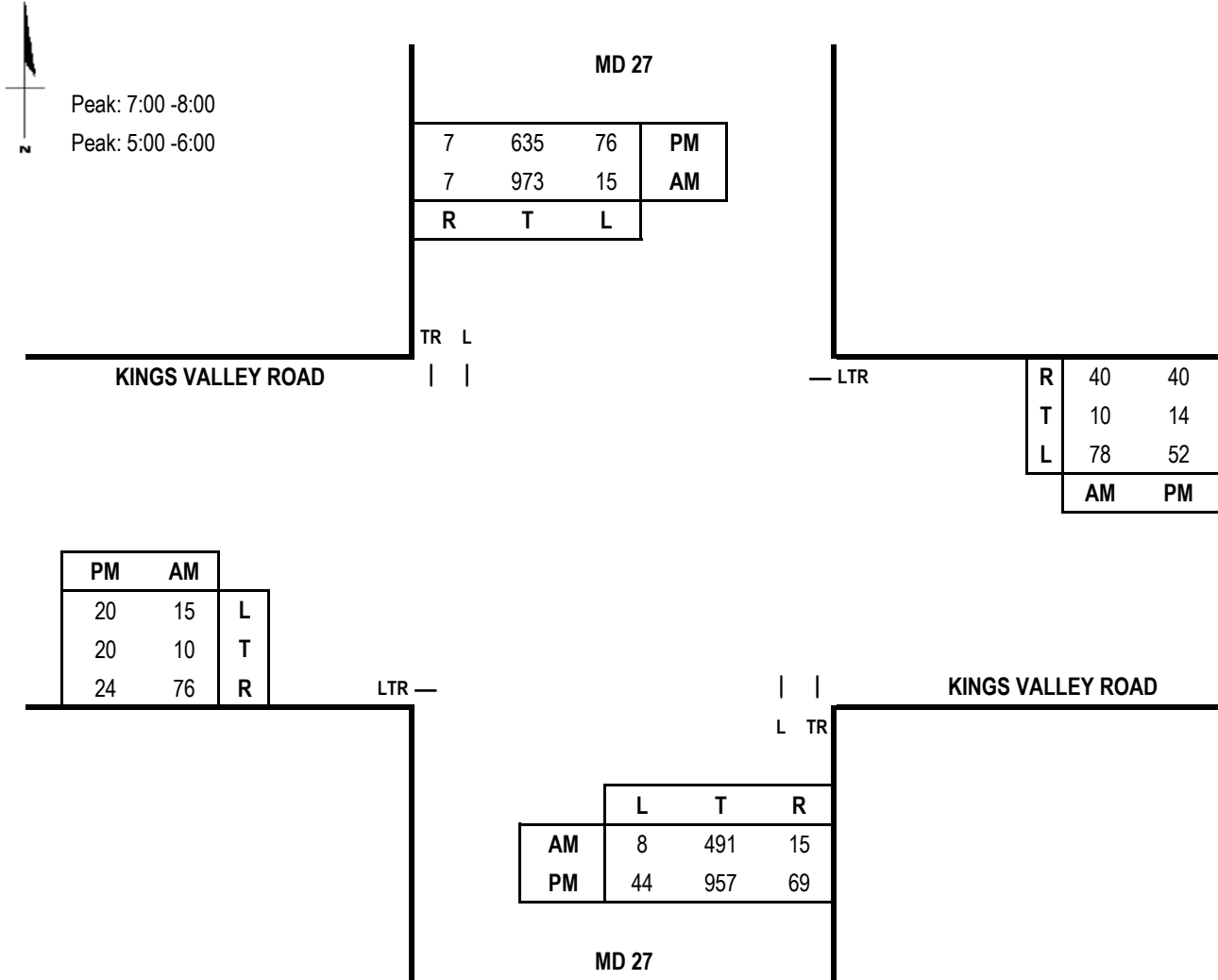
**Date of Count:** 5/25/2022

**N/S Road:** MD 27

**Day of Count:** Wednesday

**Conditions:** Background Traffic

**Analyst:** Qiang Tian



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
NB	506	1.00	506	15	1.00	15	988
SB	980	1.00	980	8	1.00	8	
EB	101	1.00	101	78	1.00	78	179
WB	128	1.00	128	15	1.00	15	
CLV TOTAL=							<b>1,167</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
NB	1026	1.00	1026	76	1.00	76	1102
SB	642	1.00	642	44	1.00	44	
EB	64	1.00	64	52	1.00	52	126
WB	106	1.00	106	20	1.00	20	
CLV TOTAL=							<b>1,228</b>

# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Kings Valley Road

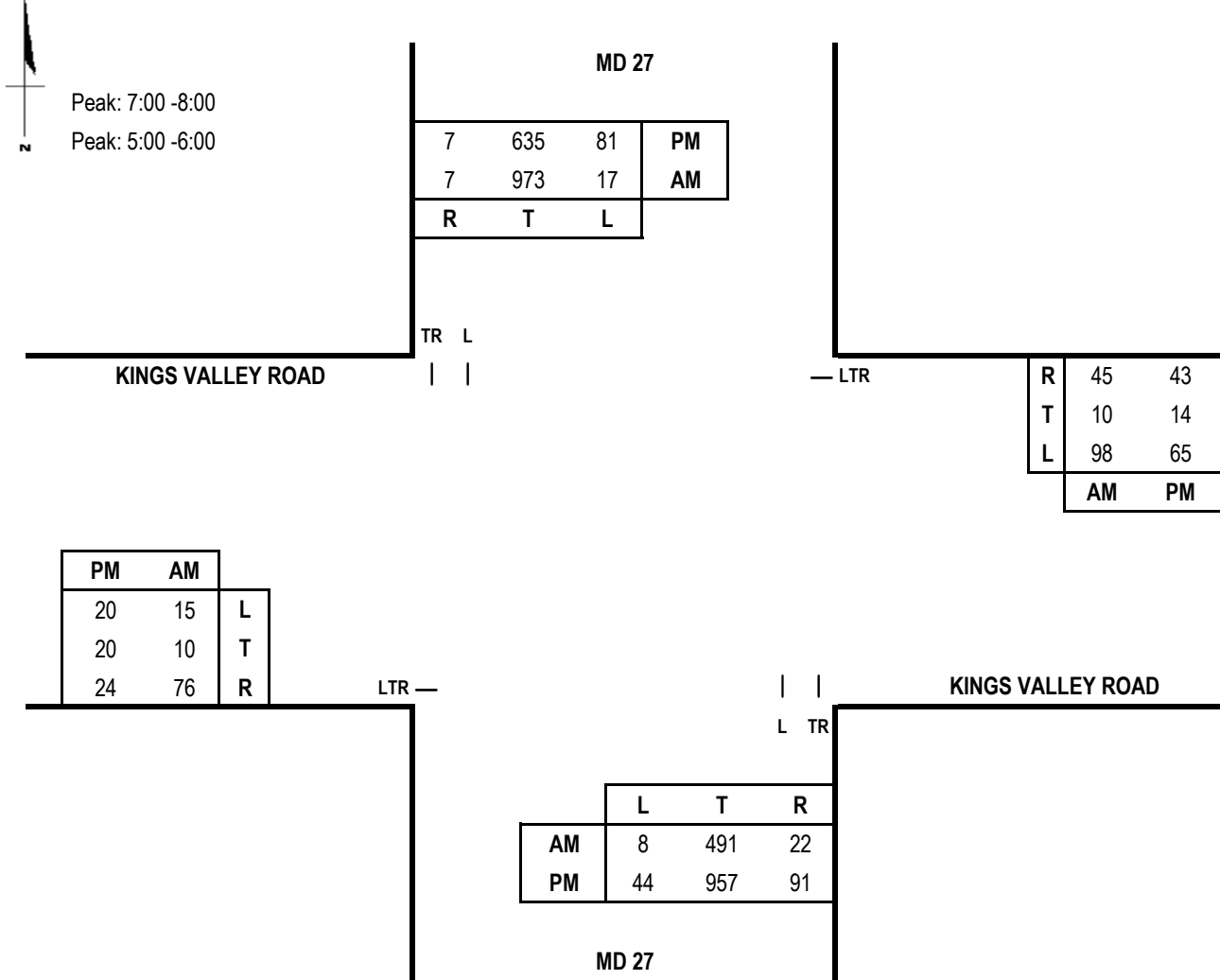
**Date of Count:** 5/25/2022

**N/S Road:** MD 27

**Day of Count:** Wednesday

**Conditions:** Total Traffic

**Analyst:** Qiang Tian



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
NB	513	1.00	513	17	1.00	17	988
SB	980	1.00	980	8	1.00	8	
EB	101	1.00	101	98	1.00	98	199
WB	153	1.00	153	15	1.00	15	
CLV TOTAL=							1,187

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
NB	1048	1.00	1048	81	1.00	81	1129
SB	642	1.00	642	44	1.00	44	
EB	64	1.00	64	65	1.00	65	142
WB	122	1.00	122	20	1.00	20	
CLV TOTAL=							1,271

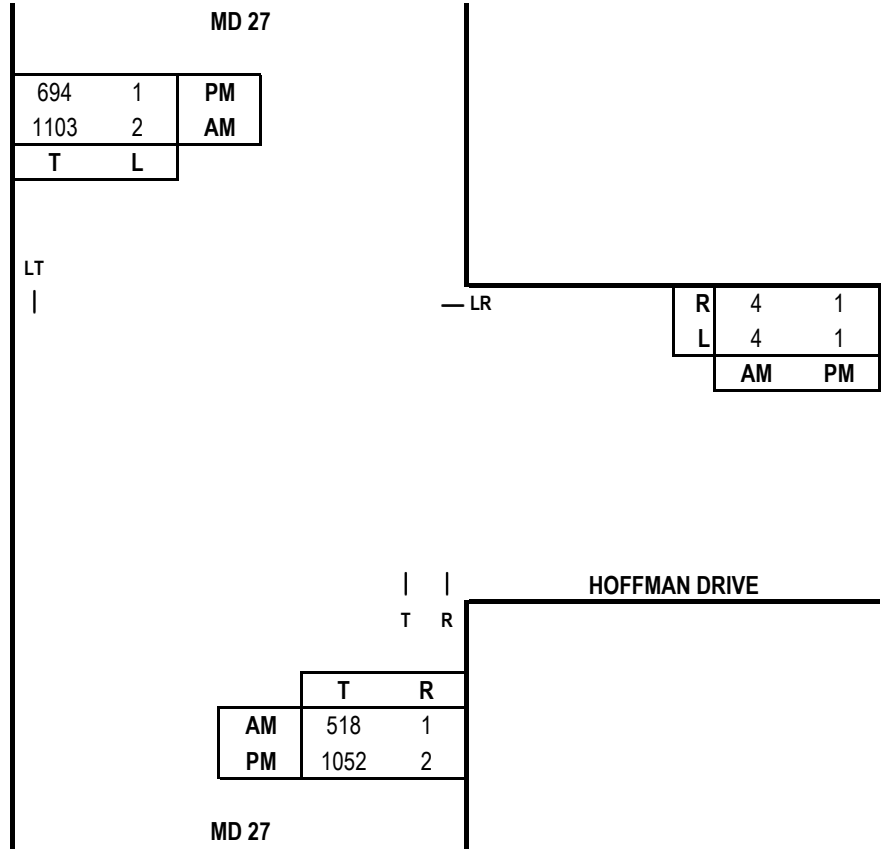
# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Hoffman Drive  
**N/S Road:** MD 27  
**Conditions:** Existing Traffic

**Date of Count:** 5/25/2022  
**Day of Count:** Wednesday  
**Analyst:** Qiang Tian



Peak: 7:00 -8:00  
 Peak: 4:45 -5:45



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	8	1.00	8				8
NB	518	1.00	518	2	1.00	2	1105
SB	1105	1.00	1105				
CLV TOTAL=							<b>1,113</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	2	1.00	2				2
NB	1052	1.00	1052	1	1.00	1	1053
SB	695	1.00	695				
CLV TOTAL=							<b>1,055</b>

Scenario ID - EXIST2

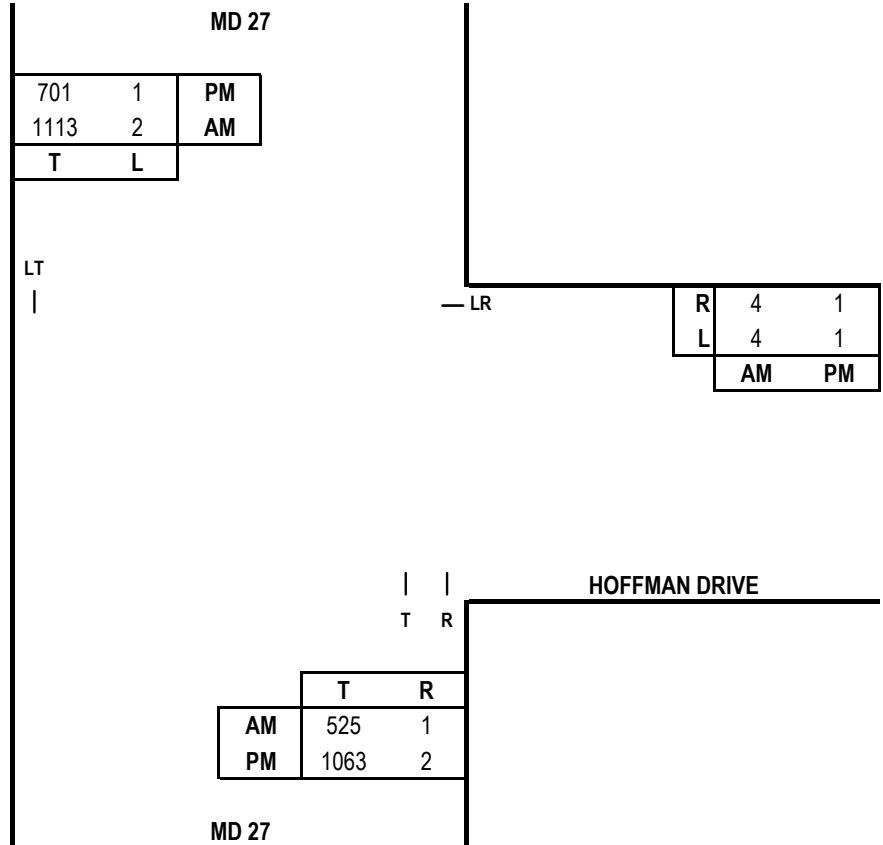
# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Hoffman Drive  
**N/S Road:** MD 27  
**Conditions:** Background Traffic

**Date of Count:** 5/25/2022  
**Day of Count:** Wednesday  
**Analyst:** Qiang Tian



Peak: 7:00 -8:00  
 Peak: 4:45 -5:45



### Capacity Analysis

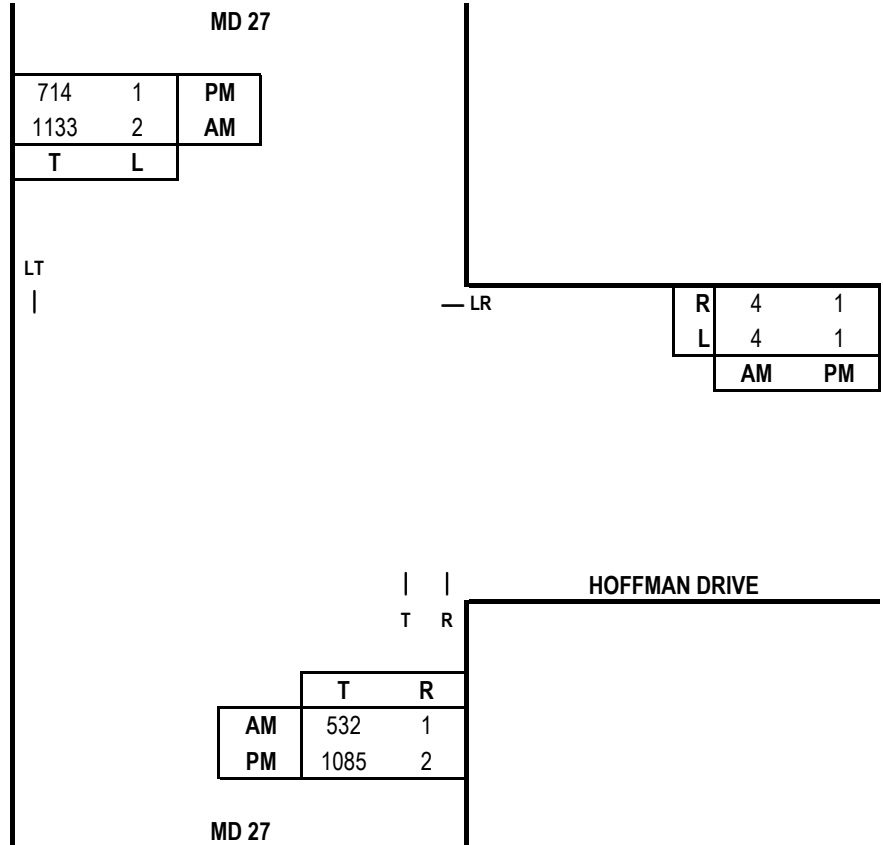
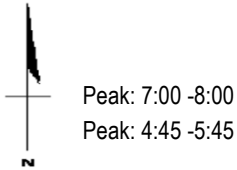
Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	8	1.00	8				8
NB	525	1.00	525	2	1.00	2	1115
SB	1115	1.00	1115				
CLV TOTAL=							1,123

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	2	1.00	2				2
NB	1063	1.00	1063	1	1.00	1	1064
SB	702	1.00	702				
CLV TOTAL=							1,066

# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Hoffman Drive  
**N/S Road:** MD 27  
**Conditions:** Total Traffic

**Date of Count:** 5/25/2022  
**Day of Count:** Wednesday  
**Analyst:** Qiang Tian



714	1	PM
1133	2	AM
T	L	

R	4	1
L	4	1
	AM	PM

	T	R
AM	532	1
PM	1085	2

### Capacity Analysis

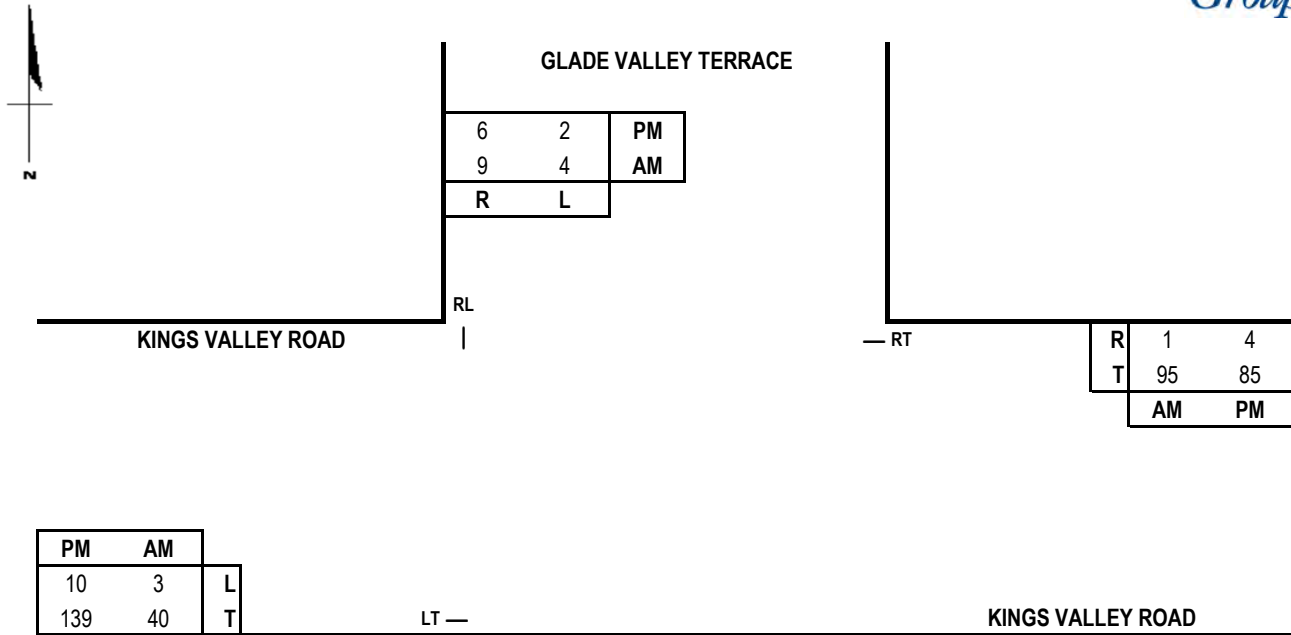
Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	8	1.00	8				8
NB	532	1.00	532	2	1.00	2	1135
SB	1135	1.00	1135				
CLV TOTAL=							<b>1,143</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	2	1.00	2				2
NB	1085	1.00	1085	1	1.00	1	1086
SB	715	1.00	715				
CLV TOTAL=							<b>1,088</b>

# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Kings Valley Road  
**N/S Road:** Glade Valley Terrace  
**Conditions:** Existing Traffic

**Date of Count:**  
**Day of Count:**  
**Analyst:** Qiang Tian



### Capacity Analysis

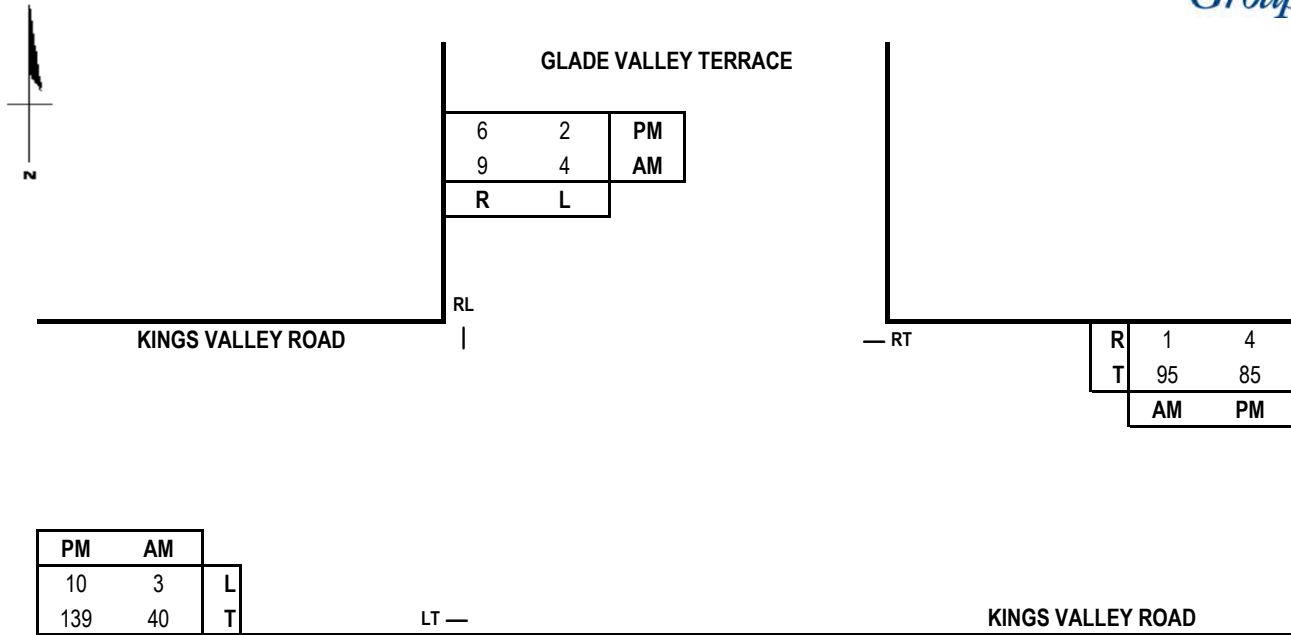
Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
SB	13	1.00	13				13
EB	43	1.00	43				99
WB	96	1.00	96	3	1.00	3	
CLV TOTAL=							<b>112</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
SB	8	1.00	8				8
EB	149	1.00	149				149
WB	89	1.00	89	10	1.00	10	
CLV TOTAL=							<b>157</b>

# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Kings Valley Road  
**N/S Road:** Glade Valley Terrace  
**Conditions:** Background Traffic

**Date of Count:**  
**Day of Count:**  
**Analyst:** Qiang Tian



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
SB	13	1.00	13				13
EB	43	1.00	43				99
WB	96	1.00	96	3	1.00	3	
CLV TOTAL=							<b>112</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
SB	8	1.00	8				8
EB	149	1.00	149				149
WB	89	1.00	89	10	1.00	10	
CLV TOTAL=							<b>157</b>

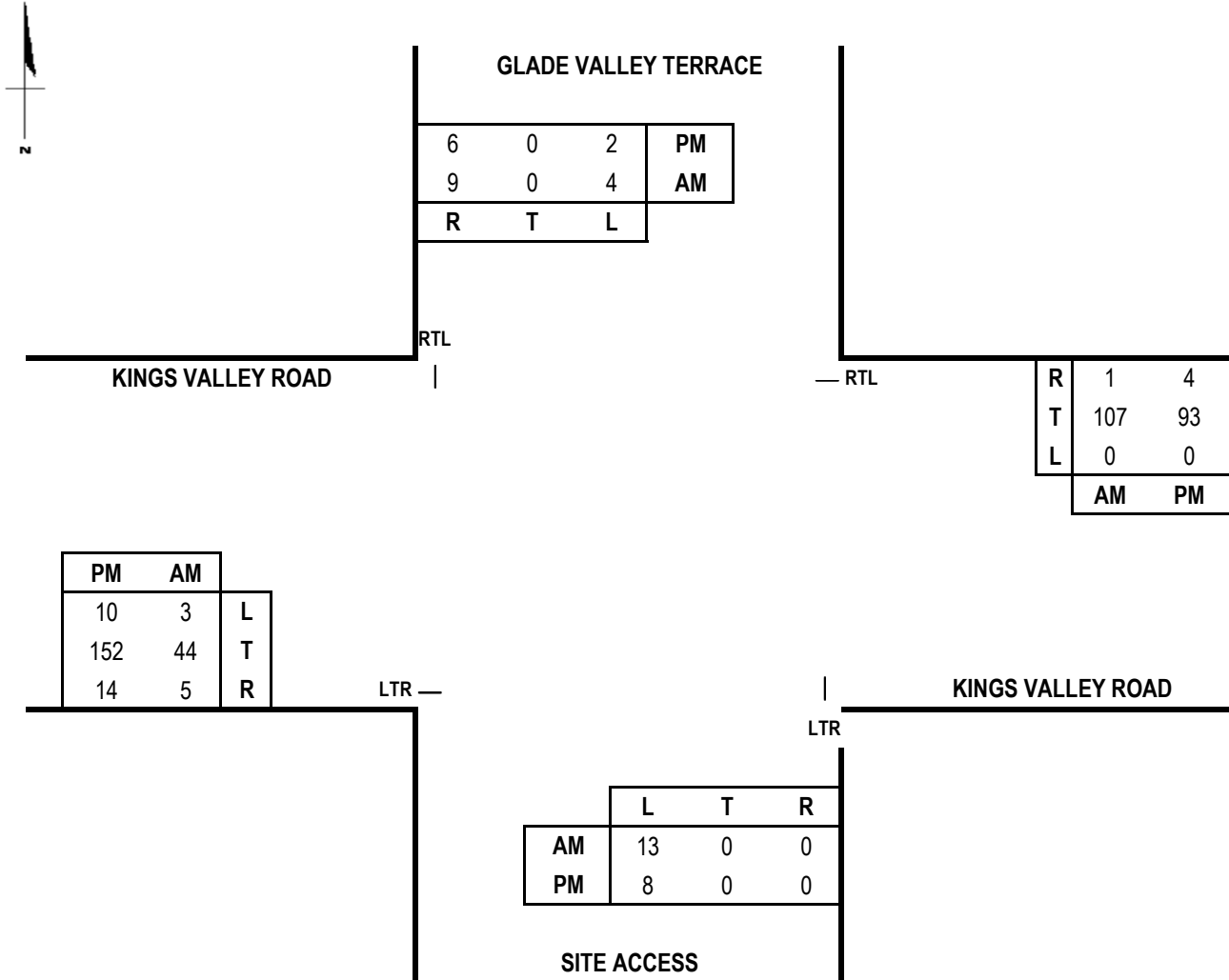
Scenario ID - BACK3



# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County



**E/W Road:** Kings Valley Road      **Date of Count:**  
**N/S Road:** Glade Valley Terrace      **Day of Count:**  
**Conditions:** Total Traffic      **Analyst:** Qiang Tian



## Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
NB	13	1.00	13	4	1.00	4	26
SB	13	1.00	13	13	1.00	13	
EB	52	1.00	52	0	1.00	0	111
WB	108	1.00	108	3	1.00	3	
CLV TOTAL=							<b>137</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
NB	8	1.00	8	2	1.00	2	16
SB	8	1.00	8	8	1.00	8	
EB	176	1.00	176	0	1.00	0	176
WB	97	1.00	97	10	1.00	10	
CLV TOTAL=							<b>192</b>

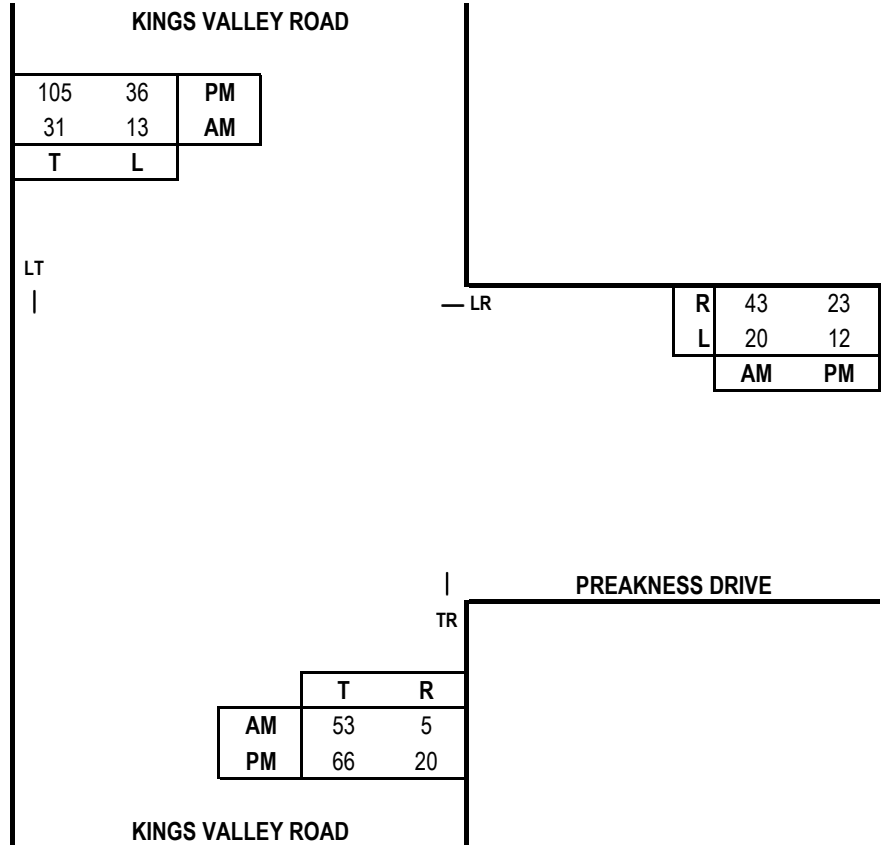
# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Preakness Drive  
**N/S Road:** Kings Valley Road  
**Conditions:** Existing Traffic

**Date of Count:** 5/25/2022  
**Day of Count:** Wednesday  
**Analyst:** Qiang Tian



Peak: 7:15 -8:15  
 Peak: 4:45 -5:45



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
WB	63	1.00	63				63
NB	58	1.00	58	13	1.00	13	71
SB	44	1.00	44				
CLV TOTAL=							<b>134</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM CLV
	VOL	x LUF	= Total	VOL	x LUF	= Total	
WB	35	1.00	35				35
NB	86	1.00	86	36	1.00	36	141
SB	141	1.00	141				
CLV TOTAL=							<b>176</b>

Scenario ID - EXIST4

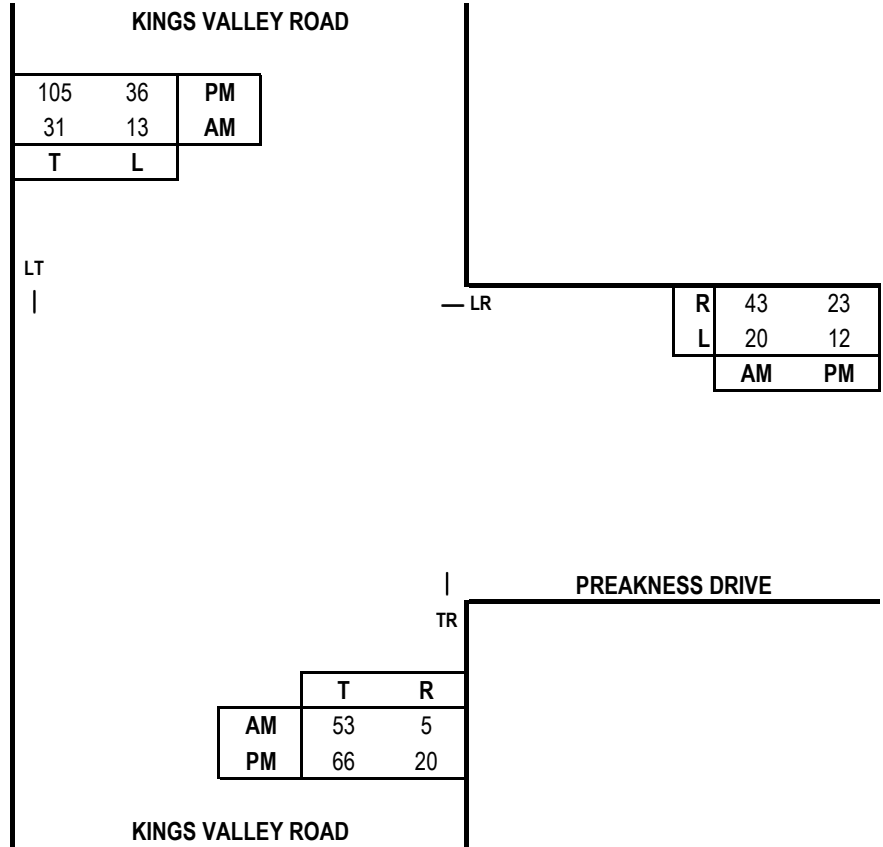
# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Preakness Drive  
**N/S Road:** Kings Valley Road  
**Conditions:** Background Traffic

**Date of Count:** 5/25/2022  
**Day of Count:** Wednesday  
**Analyst:** Qiang Tian



Peak: 7:15 -8:15  
 Peak: 4:45 -5:45



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	63	1.00	63				63
NB	58	1.00	58	13	1.00	13	71
SB	44	1.00	44				
CLV TOTAL=							<b>134</b>

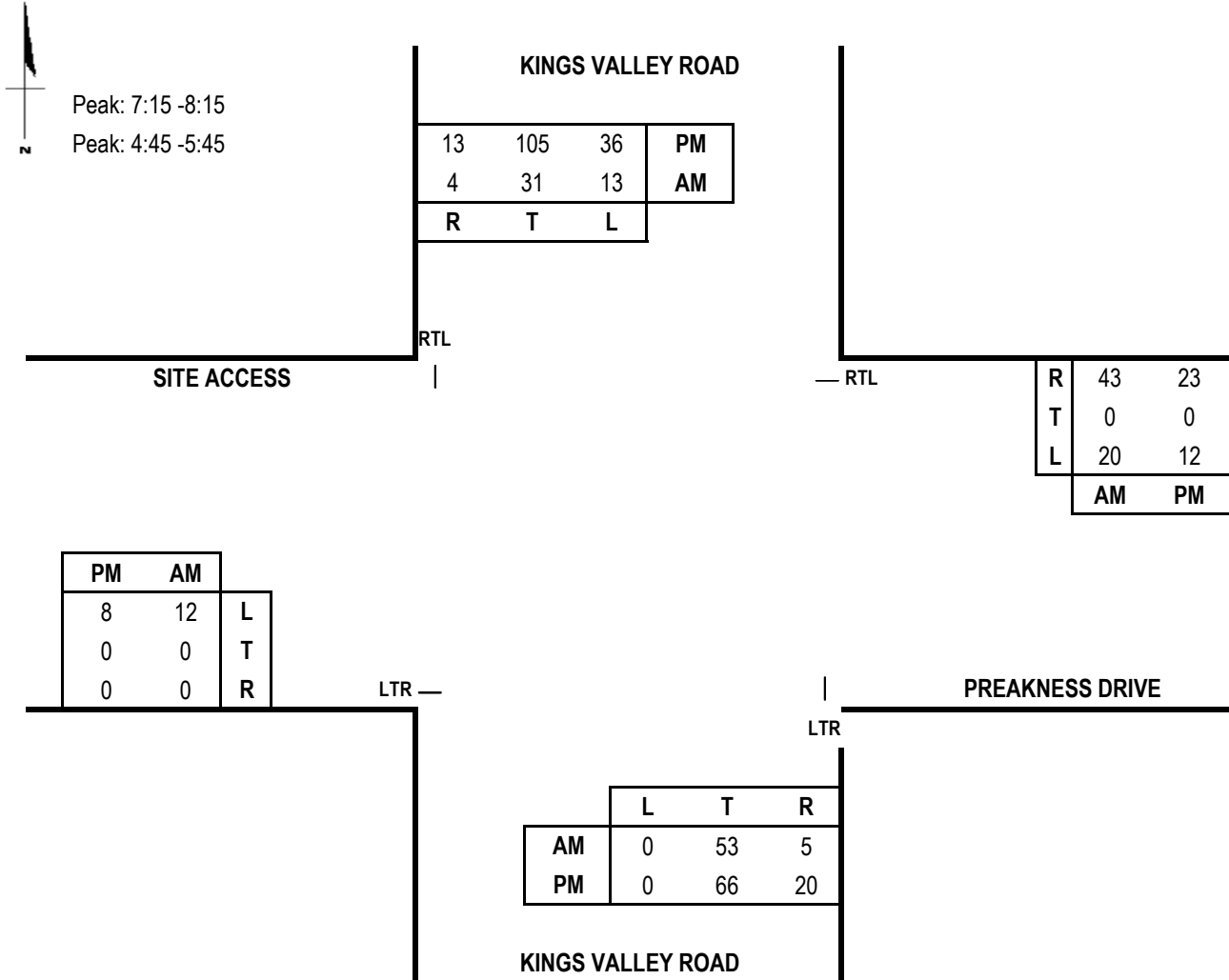
Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
WB	35	1.00	35				35
NB	86	1.00	86	36	1.00	36	141
SB	141	1.00	141				
CLV TOTAL=							<b>176</b>

Scenario ID - BACK4

# CRITICAL LANE VOLUME (CLV) METHODOLOGY for Montgomery County

**E/W Road:** Preakness Drive  
**N/S Road:** Kings Valley Road  
**Conditions:** Total Traffic

**Date of Count:** 5/25/2022  
**Day of Count:** Wednesday  
**Analyst:** Qiang Tian



### Capacity Analysis

Morning Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			AM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
NB	58	1.00	58	13	1.00	13	71
SB	48	1.00	48	0	1.00	0	
EB	12	1.00	12	20	1.00	20	75
WB	63	1.00	63	12	1.00	12	
CLV TOTAL=							<b>146</b>

Evening Peak Hour							
Dir	Thru Volumes			+ Opposing Lefts			PM
	VOL	x LUF	= Total	VOL	x LUF	= Total	CLV
NB	86	1.00	86	36	1.00	36	154
SB	154	1.00	154	0	1.00	0	
EB	8	1.00	8	12	1.00	12	43
WB	35	1.00	35	8	1.00	8	
CLV TOTAL=							<b>197</b>

Intersection: 1: MD 27 & Kings Valley Road

Movement	SE	NW	NE	NE	SW	SW
Directions Served	LTR	LTR	L	TR	L	TR
Maximum Queue (ft)	120	150	23	179	52	298
Average Queue (ft)	51	66	4	65	7	133
95th Queue (ft)	94	127	18	137	36	252
Link Distance (ft)	917	651		1034		914
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			125		150	
Storage Blk Time (%)				1		4
Queuing Penalty (veh)				0		1

Intersection: 2: MD 27 & Hoffman Drive

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	26	11
Average Queue (ft)	5	1
95th Queue (ft)	21	9
Link Distance (ft)	375	1034
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 3: Kings Valley Road & Glade Valley Terrace

Movement	SE	SW
Directions Served	LT	LR
Maximum Queue (ft)	6	31
Average Queue (ft)	0	11
95th Queue (ft)	4	35
Link Distance (ft)	651	532
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

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Intersection: 4: Kings Valley Road & Preakness Drive

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Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	62	18
Average Queue (ft)	29	1
95th Queue (ft)	49	11
Link Distance (ft)	326	518
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

---

Network Summary

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Network wide Queuing Penalty: 1

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**Intersection: 1: MD 27 & Kings Valley Road**

Movement	SE	NW	NE	NE	SW	SW
Directions Served	LTR	LTR	L	TR	L	TR
Maximum Queue (ft)	97	138	157	456	126	261
Average Queue (ft)	37	60	26	183	39	81
95th Queue (ft)	77	114	95	361	91	200
Link Distance (ft)	917	651		1034		914
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			125		150	
Storage Blk Time (%)				10		2
Queuing Penalty (veh)				4		1

**Intersection: 2: MD 27 & Hoffman Drive**

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	22	39
Average Queue (ft)	1	2
95th Queue (ft)	10	23
Link Distance (ft)	375	1034
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

**Intersection: 3: Kings Valley Road & Glade Valley Terrace**

Movement	SE	SW
Directions Served	LT	LR
Maximum Queue (ft)	21	31
Average Queue (ft)	1	9
95th Queue (ft)	12	31
Link Distance (ft)	651	532
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 4: Kings Valley Road & Preakness Drive

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	41	42
Average Queue (ft)	20	4
95th Queue (ft)	44	22
Link Distance (ft)	326	518
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Network wide Queuing Penalty: 5



**Intersection: 1: MD 27 & Kings Valley Road**

Movement	SE	NW	NE	NE	SW	SW
Directions Served	LTR	LTR	L	TR	L	TR
Maximum Queue (ft)	122	148	43	232	52	315
Average Queue (ft)	55	67	5	70	7	142
95th Queue (ft)	103	126	30	163	35	263
Link Distance (ft)	917	651		1034		914
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			125		150	
Storage Blk Time (%)				1		5
Queuing Penalty (veh)				0		1

**Intersection: 2: MD 27 & Hoffman Drive**

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	23	26
Average Queue (ft)	5	1
95th Queue (ft)	20	15
Link Distance (ft)	375	1034
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

**Intersection: 3: Kings Valley Road & Glade Valley Terrace**

Movement	SE	SW
Directions Served	LT	LR
Maximum Queue (ft)	3	31
Average Queue (ft)	0	11
95th Queue (ft)	3	36
Link Distance (ft)	651	532
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 4: Kings Valley Road & Preakness Drive

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	62	21
Average Queue (ft)	29	1
95th Queue (ft)	50	11
Link Distance (ft)	326	518
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Network wide Queuing Penalty: 1

**Intersection: 1: MD 27 & Kings Valley Road**

Movement	SE	NW	NE	NE	SW	SW
Directions Served	LTR	LTR	L	TR	L	TR
Maximum Queue (ft)	93	140	135	492	120	282
Average Queue (ft)	36	60	23	200	40	82
95th Queue (ft)	75	114	88	399	86	208
Link Distance (ft)	917	651		1034		914
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			125		150	
Storage Blk Time (%)				11		2
Queuing Penalty (veh)				5		1

**Intersection: 2: MD 27 & Hoffman Drive**

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	22	53
Average Queue (ft)	2	2
95th Queue (ft)	11	27
Link Distance (ft)	375	1034
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

**Intersection: 3: Kings Valley Road & Glade Valley Terrace**

Movement	SE	SW
Directions Served	LT	LR
Maximum Queue (ft)	12	31
Average Queue (ft)	1	8
95th Queue (ft)	7	31
Link Distance (ft)	651	532
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 4: Kings Valley Road & Preakness Drive

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	37	37
Average Queue (ft)	21	3
95th Queue (ft)	45	20
Link Distance (ft)	326	518
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Network wide Queuing Penalty: 6

**Intersection: 1: MD 27 & Kings Valley Road**

Movement	SE	NW	NE	NE	SW	SW
Directions Served	LTR	LTR	L	TR	L	TR
Maximum Queue (ft)	108	190	23	224	31	311
Average Queue (ft)	50	81	4	78	8	142
95th Queue (ft)	95	153	17	172	26	263
Link Distance (ft)	917	644		1034		914
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			125		150	
Storage Blk Time (%)				2		4
Queuing Penalty (veh)				0		1

**Intersection: 2: MD 27 & Hoffman Drive**

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	31	25
Average Queue (ft)	6	1
95th Queue (ft)	24	13
Link Distance (ft)	375	1034
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

**Intersection: 3: Site Access/Glade Valley Terrace & Kings Valley Road**

Movement	SE	NE	SW
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	12	36	36
Average Queue (ft)	0	10	11
95th Queue (ft)	6	34	36
Link Distance (ft)	644	284	533
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 4: Kings Valley Road & Site Access/Preakness Drive

Movement	EB	WB	SB
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	31	54	5
Average Queue (ft)	9	28	0
95th Queue (ft)	32	49	4
Link Distance (ft)	206	326	514
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Network wide Queuing Penalty: 1

**Intersection: 1: MD 27 & Kings Valley Road**

Movement	SE	NW	NE	NE	SW	SW
Directions Served	LTR	LTR	L	TR	L	TR
Maximum Queue (ft)	100	162	155	535	108	290
Average Queue (ft)	41	84	24	236	42	89
95th Queue (ft)	84	148	84	438	84	207
Link Distance (ft)	917	644		1034		914
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)			125		150	
Storage Blk Time (%)				14		2
Queuing Penalty (veh)				6		2

**Intersection: 2: MD 27 & Hoffman Drive**

Movement	WB	SB
Directions Served	LR	LT
Maximum Queue (ft)	22	6
Average Queue (ft)	2	0
95th Queue (ft)	11	4
Link Distance (ft)	375	1034
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

**Intersection: 3: Site Access/Glade Valley Terrace & Kings Valley Road**

Movement	SE	NE	SW
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	18	31	36
Average Queue (ft)	1	8	8
95th Queue (ft)	10	30	31
Link Distance (ft)	644	284	533
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 4: Kings Valley Road & Site Access/Preakness Drive

Movement	EB	WB	SB
Directions Served	LTR	LTR	LTR
Maximum Queue (ft)	30	49	31
Average Queue (ft)	5	21	3
95th Queue (ft)	22	45	18
Link Distance (ft)	206	326	514
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Network wide Queuing Penalty: 8

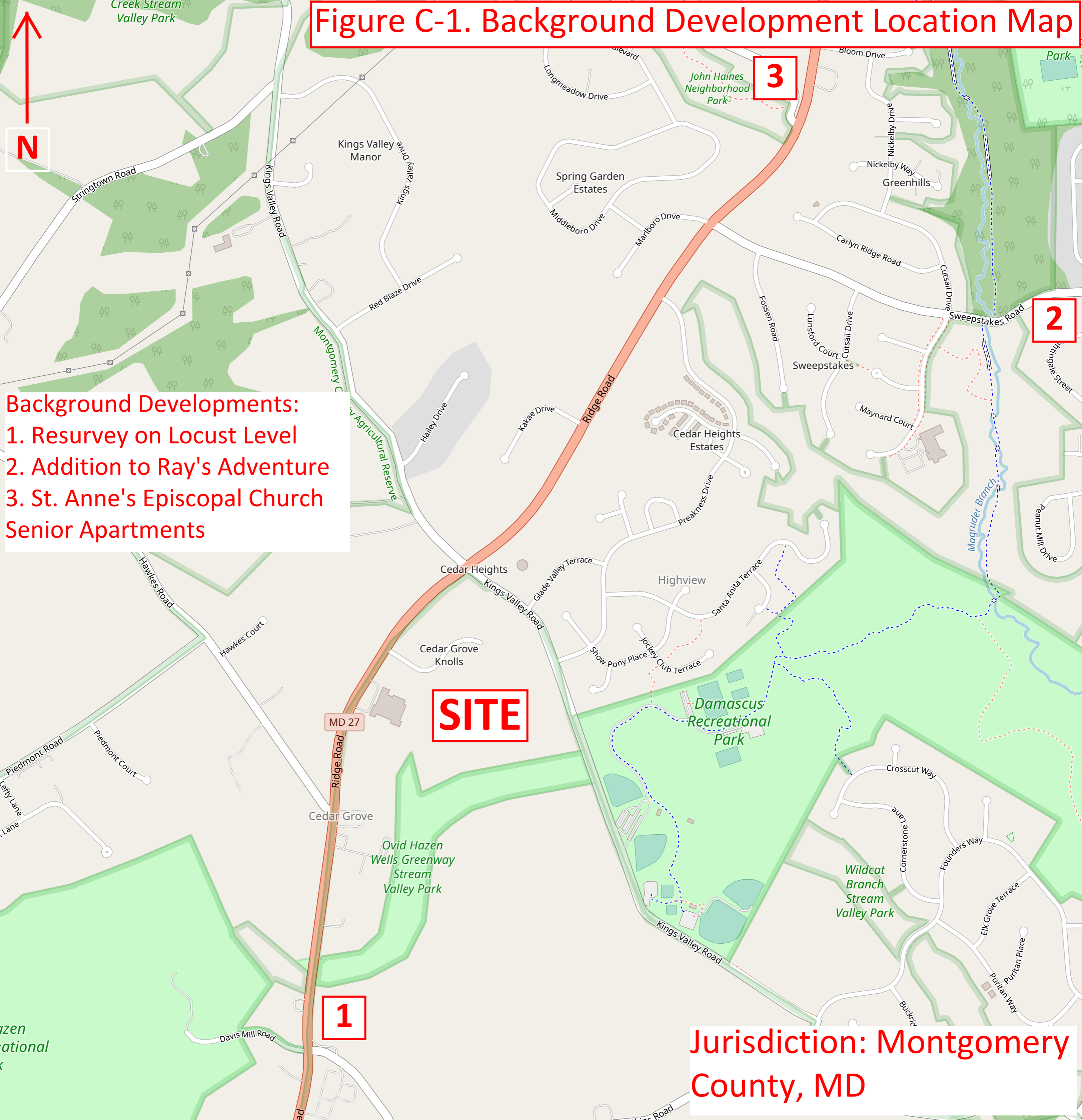


# APPENDIX C

## Trip Assignment for Approved Developments



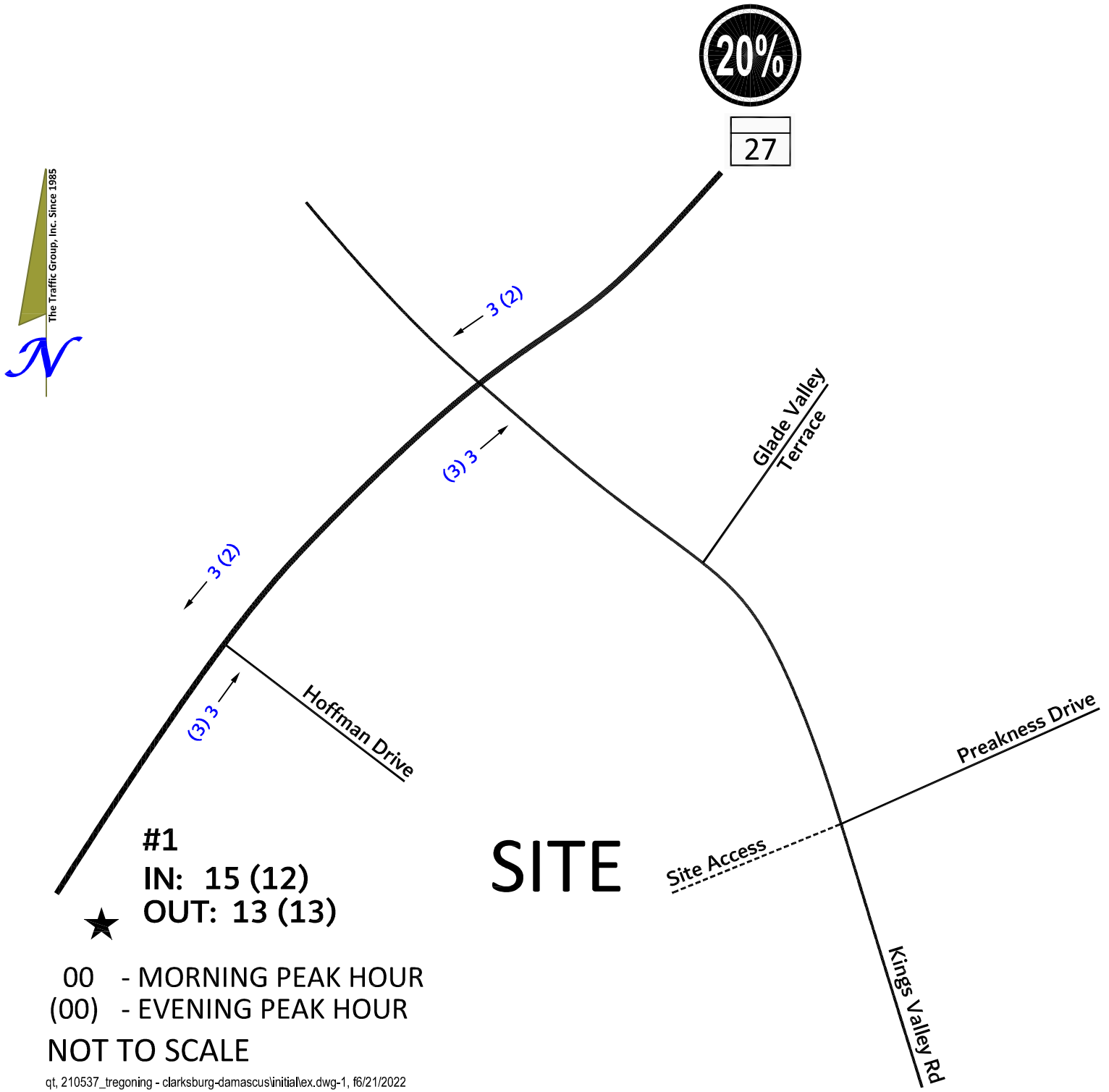
# Figure C-1. Background Development Location Map



**Background Developments:**  
1. Resurvey on Locust Level  
2. Addition to Ray's Adventure  
3. St. Anne's Episcopal Church Senior Apartments

**Jurisdiction: Montgomery County, MD**

FIGURE C-2. TRIP ASSIGNMENT FOR BACKGROUND DEVELOPMENT #1



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FIGURE C-3. TRIP ASSIGNMENT FOR BACKGROUND DEVELOPMENTS #2 & 3

