## Comprehensive Transportation Review

# **Rockshire Village**

City of Rockville, MD

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## **Executive Summary**

The following report is a Comprehensive Transportation Review (CTR) for the Rockshire Village redevelopment proposed at 2401 Wootton Parkway in the City of Rockville. This report reviews the transportation aspects of the project's development application in compliance with the City of Rockville's CTR guidelines.

The purpose of this study is to evaluate whether the project will generate a detrimental impact to the surrounding transportation network. This evaluation is based on a technical comparison of the existing conditions, background conditions, and total future conditions. This report concludes that **the project will not have a detrimental impact** on the surrounding transportation network.

#### **Proposed Project**

The project is located at 2401 Wootton Parkway. Under existing conditions, the project site is improved with a grocery store building.

The project will replace the existing 52,000-square foot grocery building with 60 residential units and 5,500 square feet of retail.

Access to the proposed project will be provided via two (2) curb cuts, one (1) on Hurley Avenue and one (1) on Wootton Parkway, consistent with existing conditions.

The project includes a designated parking area with 30 parking spaces to serve the existing Rockshire HOA Community Center/Pool that abuts the north side of the property.

#### Multi-Modal Overview

#### **Transit**

The site is well served by local transit service Ride On with stops along the Hurley Avenue and Wootton Parkway frontages. The project site also has access to regional transit facilities within a 10-minute drive at the Rockville station which is serviced by Metrorail, MARC, and Amtrak.

#### **Pedestrian**

The site is served by a robust pedestrian network that connects the site to the surrounding community and nearby destinations. Most roadways within a quarter-mile radius provide sidewalks, crosswalks and curb ramps. Most sidewalks meet City of Rockville preferred width of 5 feet, with the exception of minor segments along low volume/low speed residential streets where only one side of the road has a sidewalk. Every intersection within a quarter-mile radius has curb ramps on every corner, but most curb ramps lack detectable warning surfaces. Some low-

volume residential streets also lack crosswalks on one or more legs of the intersection.

As part of the project, both site access connections will feature ADA-compliant curb ramps.

The project will be served by a new internal sidewalk network, providing comfortable pedestrian connections within the development and to public sidewalks. The proposed sidewalks will satisfy City of Rockville guidelines and ADA requirements, providing an improved internal pedestrian environment.

#### Bicycle

The site has access to several bicycle facilities, including the Carl Henn Millennium Trail, and a signed shared roadway along Hurley Avenue.

As part of the project, sharrow markings will be installed along the Hurley Avenue frontage on the northeastern travel lane adjacent to the property.

#### Vehicular

The site is directly served by Wootton Parkway, an Arterial roadway, and Hurley Avenue, a primary residential roadway. These roadways connect the site to the nearby I-270, which provide access to the Intercounty Connector (MD-200) and the Capital Beltway (I-495).

#### Site Impact and Mitigation Measures

Per the City of Rockville CTR guidelines, the project is not required to evaluate vehicular capacity as it results in an overall reduction in vehicular trips as compared to the existing grocery land use.

The vehicular capacity analysis provided in this report is for informational purposes only and the scope was vetted and approved by the City of Rockville Staff during the scoping process. The approved scope is included in the Technical Attachments.

In order to determine whether the proposed project will have a negative impact on the transportation network, this report evaluates future conditions with and without the project based on intersection vehicular capacity analyses using the Critical Lane Volume (CLV) methodology. The intersection volume/capacity (v/c) ratios and the corresponding Level of Service (LOS) are compared to the intersection impact thresholds for non-transit-oriented areas (non-TOAs) set by City of Rockville CTR

standards to determine if the site will negatively impact the study area.

Based on the City of Rockville's mitigation requirements outlined in the CTR Guidelines, none of the analyzed study intersections are impacted by the site as the project results in an overall reduction of site-generated trips as compared to the existing grocery land use.

The proposed project generates fewer trips than the existing approved grocery trips and will not have a detrimental impact on the surrounding transportation network based on the analysis.

#### Summary and Recommendations

This report concludes that the proposed development will not have a detrimental impact on the surrounding transportation network.

The development has several positive elements contained within its design that minimize potential transportation impacts, including:

- The site's adjacency to local and regional transit service:
- The site's location within a well-connected pedestrian and bicycle network;
- Sharrow markings along the site frontage on Hurley Avenue on the travel lane adjacent to the site;
- A new mid-block pedestrian connection to the Millennium Trail:
- An improved connection to the Millennium Trail at the Wootton Parkway access point; and
- Upgrades to the traffic signal equipment at the Wootton Parkway access.

#### Introduction

This report reviews the transportation elements of the Rockshire Village project. The project site, shown in Figure 1, is located at 2401 Wootton Parkway within the City of Rockville. Figure 2 provides an aerial of the site.

#### **Purpose of Study**

The purpose of this report is to:

- Review the transportation elements of the development site plan and demonstrate that the project conforms to the City of Rockville's CTR policies.
- Provide information to the City of Rockville and other
  reviewing agencies on how the project will influence the
  local transportation network. This report accomplishes
  this by identifying the potential vehicle trips generated
  by the project and where these trips will be distributed
  on the roadway network.
- 3. Determine whether the proposed project will lead to an adverse impact on the local transportation network. This report accomplishes this by projecting future conditions with and without redevelopment of the site and performing analyses of study area intersections using the CLV methodology as required by the CTR guidelines. Intersection v/c ratios and the corresponding LOS are compared to the impact thresholds set by City of Rockville CTR standards to determine whether the project will negatively impact the study area. The report discusses whether improvements to the transportation network are needed to mitigate adverse impacts, as needed.

#### Contents of Study

This report contains eight (8) components as follows:

#### Project Overview

This component reviews the area near and adjacent to the proposed project and includes an overview of the project, including existing and proposed land uses, site plan and access, and a summary of the site trip generation before reductions and/or credits.

#### Proposed On-Site Transportation

This component reviews the transportation aspects of the project, including site access, vehicle parking, bicycle parking, pedestrian facilities, and bicycle facilities proposed by the project.

#### • Study Area and Multimodal Overview

This component includes the transportation study area and study intersections of the project and provides an overview of the multimodal facilities around the transportation study area.

#### Existing Conditions

This component reviews the existing conditions within the transportation study area, including the roadway network, existing peak-hour traffic volumes, and existing capacity analyses. This component also summarizes the existing pedestrian, bicycle, and transit access and facilities around the site.

#### • Background Conditions

This component outlines the background traffic components, including approved pipeline developments and annual traffic growth, and performs capacity analyses for background conditions. This component also reviews planned roadway, pedestrian, bicycle, and transit improvements by other agencies around the site.

#### • Project Trip Generation and Distribution

This component outlines the travel demand of the proposed project. It summarizes the proposed trip generation of the project and outlines the applicable trip reduction factors for the site trip generation. The trip distribution assumptions and route assignment for the site-generated trips are also reviewed in this section.

#### • Total Future Conditions

This component summarizes the intersection capacity analysis results of the total future conditions.

#### • Other Studies

This component includes other requested traffic studies, including a pedestrian study and a speed study.

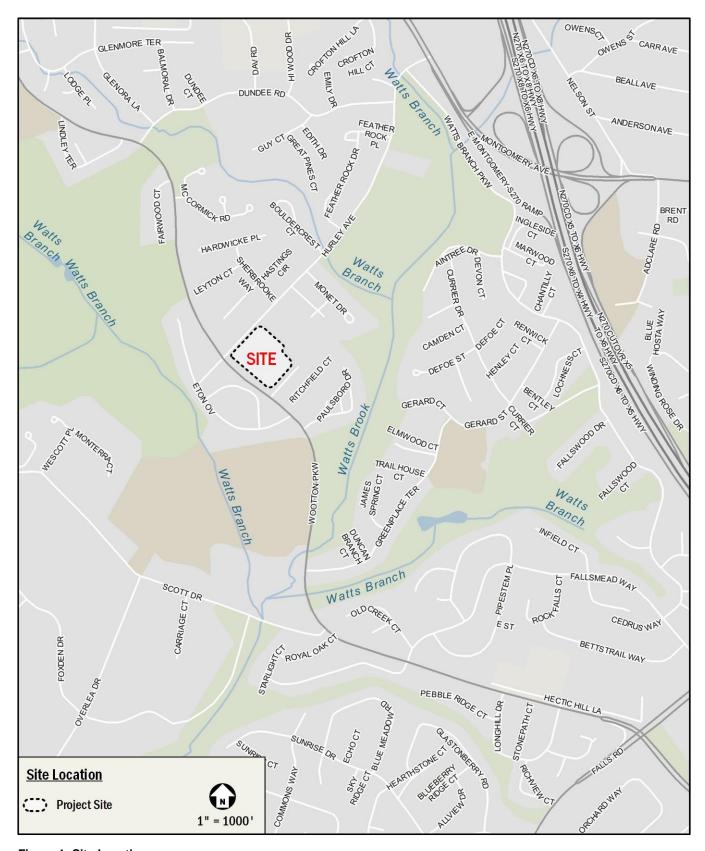


Figure 1: Site Location

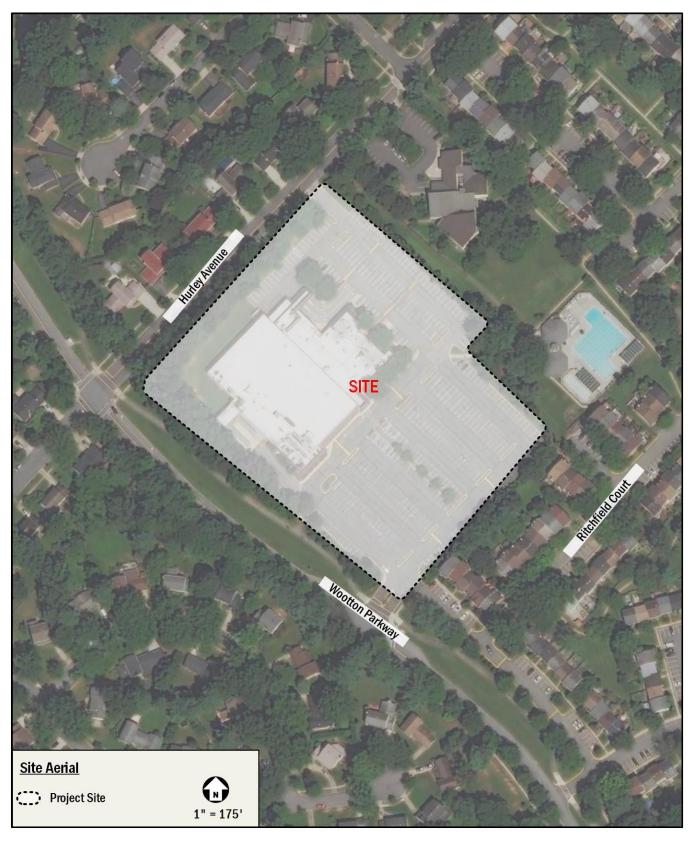


Figure 2: Site Aerial

## **Project Overview**

This section provides an overview of the development project, including the existing and proposed land uses, existing and proposed site access, and a summary of the trip generation before any reductions or credits.

#### Site Land Use

#### **Existing Land Use**

The site, located at 2401 Wootton Parkway, is bounded by Wootton Parkway to the southwest, Hurley Avenue to the northwest, the Rockshire Community Center to the northeast, a church and the Rockshire Community Pool and Center, and residential uses to the east. The property is located within the City of Rockville boundaries.

The existing land use is retail as the site is currently improved with an approximately 52,000 square foot-grocery building.

The Rockshire HOA community center/pool that abuts the property to the north is not part of the project and will remain unchanged.

#### **Proposed Land Use**

The project will replace the existing grocery retail building and parking lot with up to 60 homes (29 townhomes, 31 single-family homes) and 5,500 square feet of retail.

The retail component of the project is envisioned to operate as a fast-casual restaurant serving the neighborhood.

The retail building will be located on the south side of the property adjacent to the Wootton Parkway access point.

The residential component of the project will occupy the rest of the site.

The project will provide 30 parking spaces designated to the Rockshire HOA Community Center/Pool seasonally per the terms of the existing License Agreement L. 4957 F.697. The Rockshire HOA-designated parking spaces will be located adjacent to the Rockshire HOA Community Center/Pool on the northeastern corner of the site close to the pedestrian path that connects the project site to the Rockshire HOA Community Center/Pool.

Figure 3 shows the proposed site plan.

#### Site Access

Under existing conditions, access to the grocery store building is available via one (1) full-access curb cut on Hurley Avenue and one (1) full-access curb cut on Wootton Parkway.

The Wootton Parkway access point is controlled by a traffic signal. Additionally, the driveway that connects the property to Wootton Parkway also serves the adjacent residential neighborhood via Newtown Drive.

Vehicle access to the proposed project is consistent with existing conditions. As part of the proposed project the Hurley Avenue curb cut will shift southwest slightly, and the Wootton Parkway curb cut will remain in place with upgraded traffic signal equipment.

The proposed site access is shown in Figure 3.

#### **Trip Generation Summary**

Trip generation for the proposed redevelopment was based on the methodology outlined in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11<sup>th</sup> Edition and the City of Rockville Comprehensive Transportation Review (CTR) guidelines (2018).

Trip generation for the existing grocery land use was calculated using "Supermarket," (ITE Land Use 850).

Trip generation for the proposed townhouses was calculated using "Multifamily Housing (Low-Rise)" (ITE Land Use 220) and trip generation for the proposed detached single units was calculated using "Single-Family Detached Housing" (ITE Land Use 210).

Trip generation for the retail component was calculated using "Fast Casual Restaurant" (ITE Land Use 930) as this is the highest traffic generator for a potential tenant in the retail.

Consistent with the CTR guidelines and as approved by City of Rockville Staff during the scoping process, pass-by reductions were applied to the existing retail use. Pass-by trips are those that would have otherwise traveled on a street adjacent to the development even if the development had not been constructed. The pass-by reduction percentages used in this study were based on the average pass-by percentages retrieved from ITE Trip Generation Handbook, 3<sup>rd</sup> Edition. The applied pass-by reductions for the existing grocery retail are 36 percent for the afternoon peak hour from Land Use 850 – Supermarket.

The total site-generated vehicular trip results with reductions are summarized in Table 1.

As shown in Table 1, the trip generation for the development program will generate 83 fewer net trips in the morning peak

hour (69 fewer inbound trips, 14 fewer outbound trips), 163 fewer net trips in the afternoon peak hour (70 fewer inbound trips, 93 fewer new outbound trips), and 164 fewer net new trips in the Saturday peak hour (73 fewer inbound trips, 91 fewer outbound trips).

**Table 1: Rockshire Village Site Trip Generation Summary** 

	Updated Develop	oment	Prograi	n Project	Trip Ge	eneratio	n*				
Land Use	Size		AM Peak Hour (veh/hr)		PM Peak Hour (veh/hr)			ADT (veh)	Sat Peak Hour (veh/hr)		
		In	Out	Total	ln	Out	Total		In	Out	Total
	Ex	isting	Site Trip	Genera	tion						
Retail with Grocery	52,000 sf	88	61	149	233	232	465	4,876	263	262	525
Pass-by Reduction for	Grocery (36% for PM, 26% for SAT)**				-84	-84	-168		-68	-68	-136
	<b>Total Primary Grocery Trips</b>	88	61	149	149	148	297	4,876	195	194	389
	Updated Dev	/elopn	nent Pro	gram Tri	p Gene	ration					
Residential (220)	29 units	8	24	32	21	12	33	261	6	6	12
Residential (210)	31 units	7	19	26	21	12	33	344	19	17	36
	Subtotal Residential Trips (60 units)	15	43	58	42	24	66	605	25	23	48
Retail (Fast Casual)	5,500 sf	4	4	8	38	31	69	534	99	81	180
	Updated Program Proposed Trips	19	47	66	80	55	135	1,139	124	104	228
	Net New Primary Trips	-69	-14	-83	-69	-93	-162	-3,737	-71	-90	-161

<sup>\*</sup>Latest edition of the ITE Trip Generation Manual used (11th ed.)

<sup>\*\*</sup>Based on average pass-by percentages from ITE Trip Generation Handbook, 3<sup>rd</sup> Edition (PM from LU 850 Supermarket, SAT from LU 820 Shopping Center)

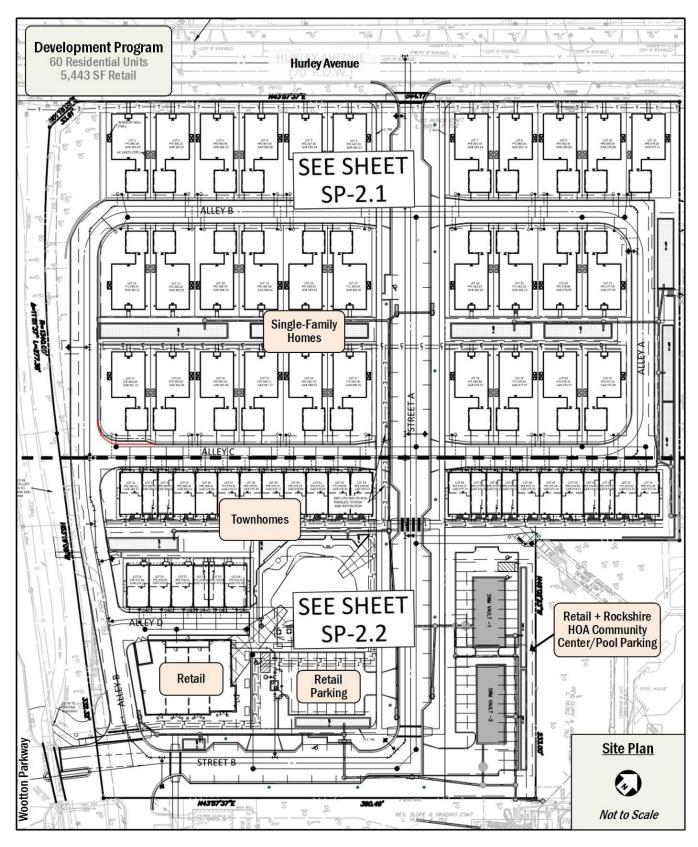


Figure 3: Site Plan

## Proposed On-Site Transportation

This section reviews the proposed transportation components of the Rockshire Village, including the proposed parking facilities, pedestrian access, and bicycle access.

#### Vehicular Access and Parking Circulation

Vehicular access to the site is expected to occur via the Hurley Avenue access point and the Wootton Parkway access point.

The project includes an internal road and alley network that promotes efficient circulation on site. An internal road spine is proposed with Road A and Road B which link the two (2) access points. Road A bisects the site by intersecting Hurley Avenue and connecting to Road B to the southeast. Road B extends from Wootton Parkway to the designated Rockshire HOA Community Center/Pool parking area and intersects Road A.

The existing connection to the residential neighborhood to the east will be maintained via a Newton Drive and Road B intersection consistent with existing conditions.

The retail parking area is proposed to be north of the retail building across from the Rockshire HOA parking area and can be accessed from Road A and Road B.

The proposed internal roadway and alley network is shown on the site plan presented in Figure 3 in the Project Overview section.

#### Site Parking

The proposed development will provide a total of approximately 210 vehicle parking spaces across the site with the following breakdown:

- 120 residential private garage/driveway parking spaces
- 32 on-street parking spaces serving visitors to the site
- 28 parking spaces designated to the commercial component of the project
- 30 parking spaces designated to serve the Rockshire HOA Community Center/Pool

#### Pedestrian Access and Circulation

Pedestrian access to the site will be available from the access points with sidewalks on Hurley Avenue and Wootton Parkway.

The Millennium Trail, a shared use path, runs along the project site frontage on Wootton Parkway. The project includes a sidewalk connection to the Millennium Trail on the northwest side of the Road B/Wootton Parkway intersection.

A second connection is to the Millenium Trail is also proposed from Alley B between Alley C and Alley D across from the Townhomes.

Sidewalk connections to the sidewalk along the Hurley Avenue frontage are also proposed on both sides of Road A.

Curb ramps are proposed at all pedestrian sidewalk crossings at road grade.

Pedestrian access to the residential units is proposed via pedestrian-only walkways between the single-family homes and townhomes, parallel to the internal alley network.

Pedestrian access to the retail component is available from the internal sidewalk network. The Millennium Trail connection adjacent to Wootton Parkway provides the closest connection to the retail component from the public right-of-way.

The project also includes a sidewalk connection from the internal sidewalk network to the existing Rockshire HOA Community Center/Pool walkway which will facilitate convenient and direct access between the Rockshire HOA parking area and the community center.

Pedestrian access to the adjacent institutional use (church) is also proposed to be maintained with an improved connection subject to coordination with the church property owner.

The proposed internal sidewalks provide comfortable and convenient access between the project and the surrounding community. Internal connectivity is also convenient with a sidewalk network that connects the residential and retail land uses.

#### Proposed Bicycle Access and Facilities

Primary bicycle access to the site is expected to occur via the access points on Hurley Avenue and via the Millennium Trail on Wootton Parkway.

Hurley Avenue is a signed shared roadway and as requested by City of Rockville Staff, sharrow markings will be installed on the northeastbound travel lane along the property frontage as part of the project.

Under the City of Rockville's Zoning Ordinance, two (2) short-term bicycle parking spaces per 5,000 SF of GFA and two (2) long-term bicycle parking spaces per 12,000 SF of GFA are required for the project's retail component.

Given that the proposed development consists of up to 5,500 SF of general retail, a total of two (2) short-term bicycle parking spaces are required for the entire project. The proposed development will provide bicycle parking spaces meeting the zoning requirements. A bicycle rack will be placed near the main entrance of the general retail providing two (2) short-term bicycle parking spaces.

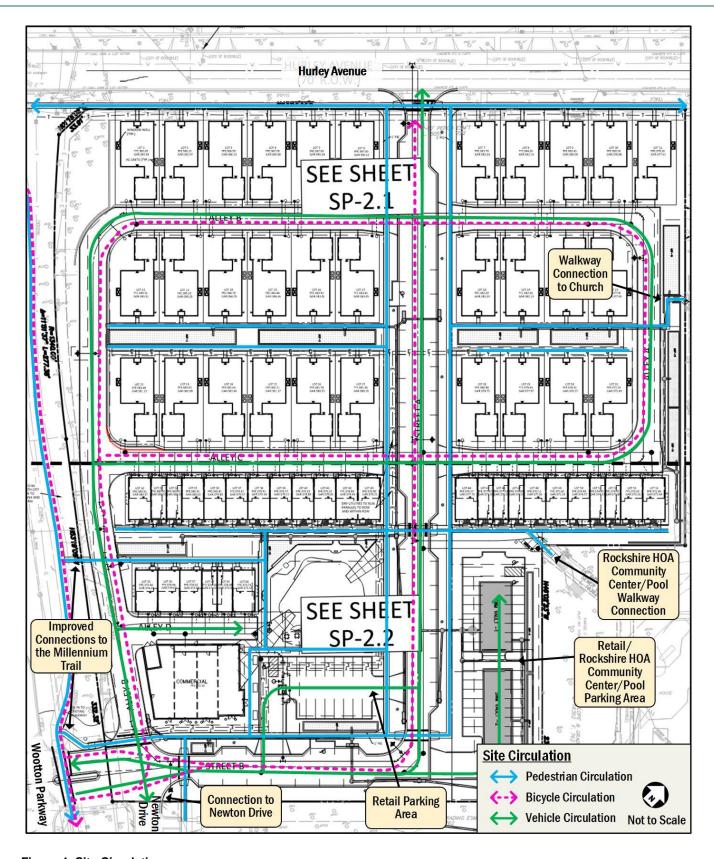


Figure 4: Site Circulation

## Study Area and Transportation Network Overview

This section specifies the transportation study area of this project and includes a summary of the major multimodal transportation characteristics of the study area.

This section concludes:

- Three (3) intersections are included in the study area for analysis.
- The site is surrounded by a robust transportation system that will connect the proposed project's residents, visitors, and retail staff and visitors to the surrounding areas.
- The site is well-served by public transportation, being adjacent to three (3) Montgomery County Ride On lines.
- There is existing bicycle infrastructure surrounding the site including the Carl Henn Millennium Trail and a signed shared roadway along Hurley Avenue.
- Pedestrian facilities are available along anticipated major walking routes.

#### Study Intersections

The City of Rockville CTR guidelines specify the minimum number of intersections to be analyzed and the minimum radius of the transportation study area based on the new peak hour site trips before reductions are applied.

As shown in Table 1, the project generates fewer trips than the existing land use overall and therefore vehicular capacity analysis is not required for the project per the City's CTR guidelines as the project does not generate 30 or more trips.

Per City Staff request, a supplemental vehicular capacity analysis is included in this report to determine the volume to capacity ratio and the level of service (LOS) of the project's access points and the Hurley Avenue and Wootton Parkway intersection.

Consistent with the approved scope, the vehicular capacity analysis was conducted for the weekday morning and afternoon commuter peak hours, using the system peak hours at three (3) study area intersections.

Per the scoping agreement letter approved by the City and included in the Technical Attachments, the following intersections, shown in Figure 5, were chosen for analysis:

- 1. Hurley Avenue & Wootton Parkway
- 2. Hurley Avenue & Site Driveway
- 3. Wootton Parkway & Site Driveway

### Major Transportation Features

#### **Overview of Regional Access**

The site has ample access to regional transportation options, shown in Figure 6, that connect the site to destinations within Maryland, Virginia, and the District of Columbia.

The site has direct frontage on Wootton Parkway, an arterial roadway, and on Hurley Avenue, a primary residential class I roadway. These two roadways connect the site to I-270, with further connections to the Capital Beltway (I-495) and the Intercounty Connector (MD-200), providing ample connectivity to the Washington DC Metropolitan area and its inner suburbs, as well as regional destinations in Maryland and Virginia.

The site is located approximately 2.9 miles from the Rockville Metrorail station, which is served by the Red Line. The Red Line runs from the Shady Grove station in Rockville to Glenmont in Silver Spring by way of downtown Washington, DC. The Red Line connects with the other five (5) Metrorail lines, allowing access to much of the Washington, DC metropolitan area via transit. The Rockville Metrorail Station is also served by MARC's Brunswick Line (Commuter Rail) and Amtrak (inter-city service). The Brunswick Line provides peak hour access to and from downtown Washington, DC.

Overall, the site has excellent access to regional transportation options, making it convenient to travel between the site and destinations in Maryland, Virginia, the District, and beyond.

#### **Overview of Local Access**

There are local transportation options near the site that serve vehicular, transit, walking, and bicycling trips.

Table 2 provides a list of the roadways that provide direct access to the project.

The Montgomery County Ride On bus systems provide local transit service adjacent to the site. Three (3) Montgomery County Ride On routes service the site, providing connections to Metrorail and other destinations.

The site is located adjacent to several bicycle facilities, including the Carl Henn Millennium Trail, and a signed shared roadway along Hurley Avenue. The Carl Henn Millennium Trail runs in a loop around the City of Rockville, connecting to various other bicycle facilities. The signed share roadway on Hurley Avenue

connects the project to Woottons Mill Park, where additional bicycle facilities can be accessed.

The project site is surrounded by a pedestrian network that connects the project to nearby destinations. Most roadways within a quarter-mile radius of the project site provide sidewalks, crosswalks, and curb ramps. A detailed review of existing

pedestrian access and infrastructure is provided in the Existing Conditions section of this report.

Overall, the site is surrounded by a local transportation network that allows for convenient transportation options via transit, bicycle, walking, or vehicular modes.

Table 2: Summary of Study Area Roadways

Roadway	Jurisdiction	Functional Classification	Rural vs Urban	# of Lanes	Speed Limit
Wootton Parkway	City of Rockville	Arterial	Urban	2-3	35 mph
Hurley Avenue	City of Rockville	Primary Residential	Urban	2	25 mph

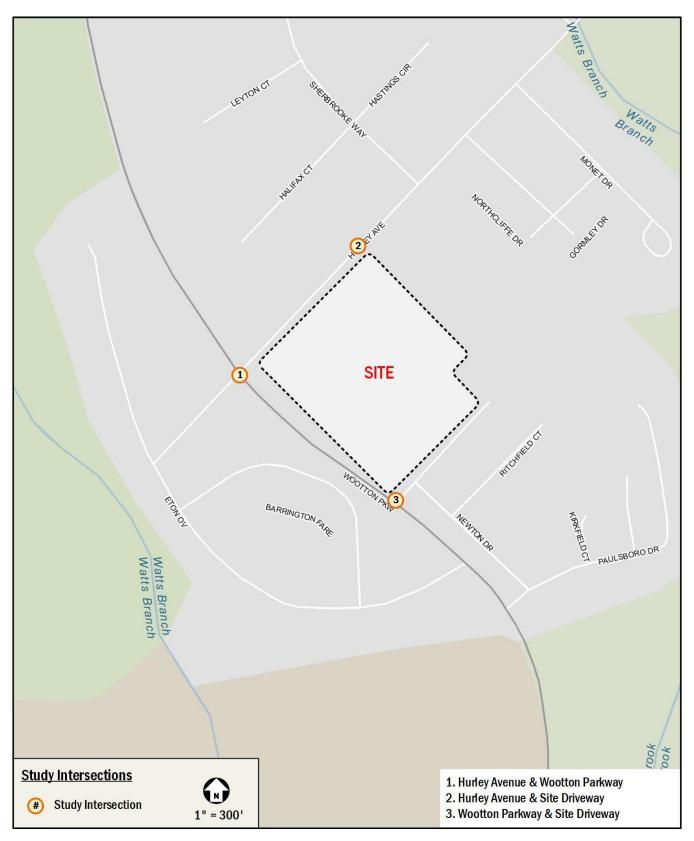


Figure 5: Study Intersections

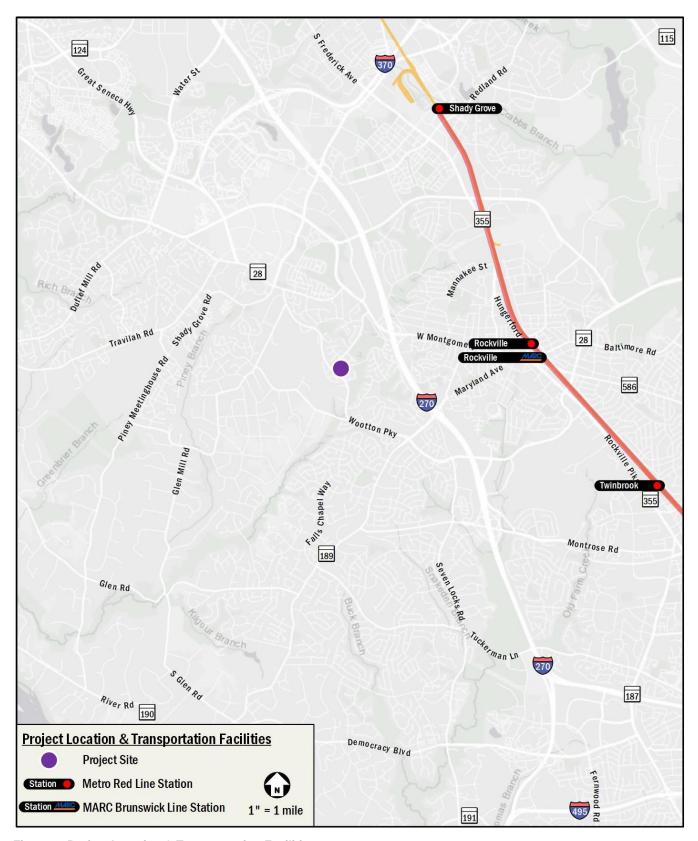


Figure 6: Project Location & Transportation Facilities

## **Existing Conditions**

This section provides a summary of an analysis of the existing roadway capacity in the study area. The capacity analysis focuses on the morning and afternoon commuter peak hours as determined by the existing traffic volumes in the study area. This section also outlines the existing conditions of transit, pedestrian, and bicycle facilities in the vicinity of the site.

#### Land Parcel

The project site is located at 2401 Wootton Parkway and is directly accessible from Wootton Parkway and Hurley Avenue. The existing land use is retail consisting of approximately 52,000 square feet dedicated to grocery use.

Figure 1 provides an overview of the site location and Table 2 provides a list of the local roadways in the project study area, as described in previous sections of this report.

#### Existing Traffic Volumes

Weekday peak hour volumes used in this study are based on turning movement count data collected at three (3) study intersections on December 14, 2022, at the following locations:

- Wootton Parkway & Hurley Avenue
- Hurley Avenue & Site Driveway
- Wootton Parkway & Site Driveway

Figure 7 shows the existing peak hour volumes at the three (3) study intersections. Turning movement count data is available in the Technical Attachments.

#### **Existing Geometry and Operations**

Field observations and City of Rockville data confirmed the existing lane configurations and traffic controls at the study intersections. Existing signal timings and offsets were obtained from the City of Rockville.

The lane configurations and traffic controls for the existing conditions are shown in Figure 8. Signal timing data provided by the City of Rockville are included in the Technical Attachments.

#### Intersection Impact Thresholds and Capacity

The City's CTR guidelines outline the intersection impact thresholds based on road classification, as shown in Table 3.

Intersection capacity for each of the study intersections was calculated using Table 4 from the City's CTR guidelines.

**Table 3: Intersection Impact Thresholds for Non-TOAs** 

Road Classification*	Volume/ Capacity Threshold	Corresponding LOS
Primary Residential – Class II (Minor Collector), Secondary Residential	0.79 79%	С
Major Arterials (Except where two Major Arterials connect), Minor Arterials, Primary Residential – Class I (Major Collector), Primary Industrial, Secondary Industrial	0.89 89%	D
Business District roads, freeway ramps, and for locations where two Major Arterials intersect	0.99 99%	E

<sup>\*</sup>At intersections where two or more roads with different road classifications meet, the LOS threshold will be established based on the higher roadway classification (the classification where more congestion is acceptable).

**Table 4: Intersection Capacity** 

Cycle Length	Nu	Number of Phases				
(seconds)	2	3	4 or more			
89 or less	1500	1400	1300			
90 - 119	1600	1500	1400			
120 - 149	1650	1600	1500			
150 or more	1700	1650	1550			

Table 5 summarizes the thresholds for corresponding LOS and intersection capacity for each study intersection, based on roadway classification, traffic control, signal phase, and cycle length.

Table 5: Summary of Capacity Thresholds for Study Intersections

Intersection	Classification	Traffic Control	Signal Phases	•	cle igth		ection acity	v/c Threshold	LOS Threshold
		Control	Filases	AM	PM	AM	PM	Tillesiloid	Tillesiloiu
Hurley Avenue &     Wootton Parkway	Arterial & Primary Residential	Signalized	6	80	80	1300	1300	0.99 (99%)	Е
Hurley Avenue & Site Driveway	Primary Residential	Unsignalized	2	90	90	1600	1600	0.89 (89%)	D
Wootton Parkway     Site Driveway	Arterial	Signalized	4	80	80	1300	1300	0.99 (99%)	E

## **Existing Conditions Capacity Analysis**

Table 6 summarizes the capacity analysis results for existing conditions for the commuter morning and afternoon peak hours. Detailed CLV analyses are provided in the Technical Attachments.

It was found that under existing conditions, no intersections exceed acceptable capacity thresholds based on the CLV methodology.

Table 6: Summary of Existing Conditions Intersection Capacity Results

Intersection	MOE	Existing		
III CI SECLIOII	WICE	AM	PM	
Hurley Avenue & Wootton Parkway	CLV	593	600	
	v/c	37%	40%	
	LOS	Α	Α	
2. Hurley Avenue & Site Driveway	CLV	242	110	
	v/c	15%	7%	
	LOS	Α	Α	
3. Wootton Parkway & Site Driveway	CLV	666	534	
	v/c	42%	36%	
	LOS	Α	Α	

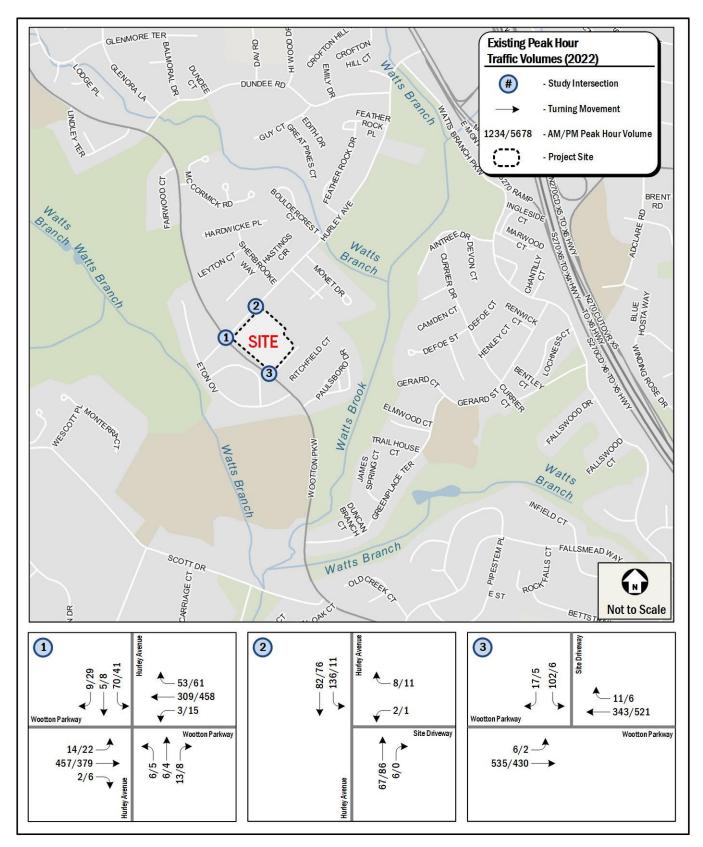


Figure 7: Existing Peak Hour Traffic Volumes

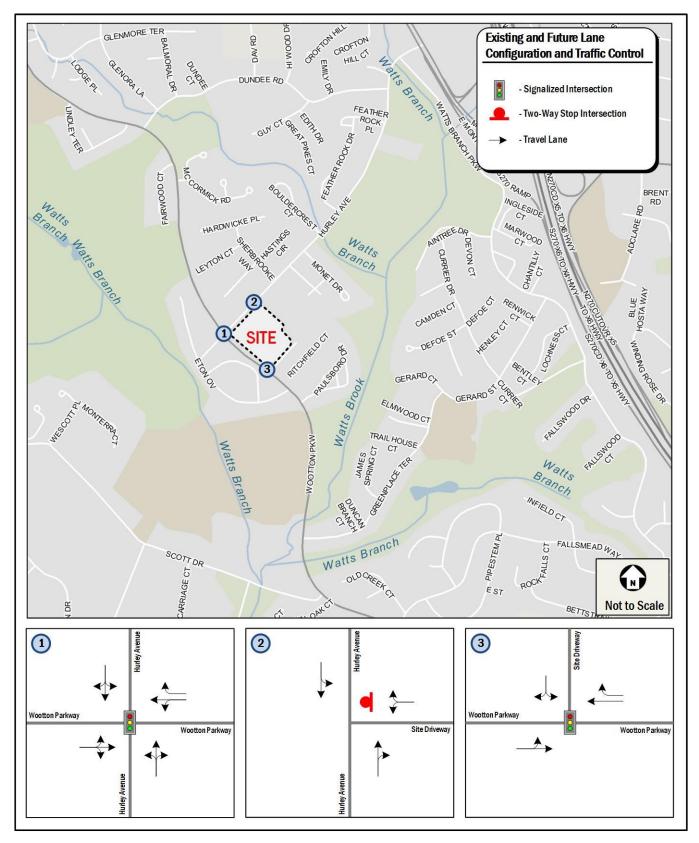


Figure 8: Existing and Future Lane Configurations and Traffic Control

## Existing Transit, Pedestrian, and Bicycle Facilities

#### **Existing Pedestrian Facilities**

#### **Pedestrian Study Area**

Facilities within a quarter mile of the project site were evaluated. The project site has direct access to transit located along Wootton Parkway and Hurley Avenue. There are minor areas of concern within the study area that impact the quality of and attractiveness of the walking environment.

#### **Pedestrian Infrastructure**

A review of pedestrian facilities surrounding the proposed project shows that most facilities provide an adequate walking environment. Figure 9 shows a detailed inventory of the existing pedestrian infrastructure surrounding the site. Sidewalks, crosswalks, and curb ramps are evaluated based on the City standards and guidelines in addition to ADA standards.

The City of Rockville minimum sidewalk widths guidelines are shown in Table 7. Per the City of Rockville's Complete Streets policy, the preferred sidewalk width minimum is 5 feet. Where the preferred width is not attainable due to right-of-way constraints, the City defers to ADA standards. Wider sidewalks are desirable in areas with high pedestrian volumes and where there is no buffer between the walking path and high speed/volume roadways.

Figure 10 shows the existing conditions at each study intersection with respect to crosswalks, including the presence of pedestrian automated push buttons. A streetlight inventory around the site between study intersections is presented on Figure 11.

**Table 7: Sidewalk Guidelines** 

Source	Minimum Sidewalk Width	Minimum Buffer Width
Zoning Ordinance Sec. 25.17.05.	6 ft	7 ft
Complete Streets: Priority Area A	6 ft - 10 ft	4 ft – 8 ft
Complete Streets: Priority Area B	4 ft - 8 ft	4 ft - 6 ft
Complete Streets: Priority Area C	5 ft	6 ft - 10 ft

All roadways in the ¼ mile study area were considered "residential" due to the surrounding land use. Additionally, most roadways outside of Wootton Parkway and Hurley Avenue in the study area are low volume and low speed residential streets. A few sidewalks surrounding the project site do not comply with standards due to narrow widths and/or buffer spaces. Additionally, the majority of the low-volume/low-speed residential streets provide sidewalk facilities on one side only.

ADA standards require that all curb ramps be provided wherever an accessible route crosses a curb and must have a detectable warning. Additionally, curb ramps shared between two crosswalks are not desired. As shown in Figure 9, under existing conditions every intersection near the site has curb ramps on every corner, but some curb ramps lack a detectable warning. Some low-volume residential streets also lack crosswalks on one or more legs of the intersection. However, the two (2) intersections on site frontage both have ADA-compliant curb ramps and crosswalks at all legs.

#### **Pedestrian Crossing Distance Analysis**

A pedestrian crossing distance analysis was conducted at the signalized study intersections to determine the existing crossing conditions and signal timing necessary to meet the required pedestrian crossing needs. Crosswalk measurements were taken using Montgomery County GIS (MCATLAS) to determine the pedestrian crossing distances, measured curb to curb at each intersection. Using these measurements, the required pedestrian crossing time was calculated by dividing the distance by an average walking speed of 3.5 feet per second. Pedestrian crossing times were provided by the City of Rockville via signal timing sheets.

Table 8 shows the results of the pedestrian crossing distance analysis. Based on the results of the analysis, pedestrians are provided with sufficient crossing time at all signalized intersections.

Table 8: Pedest	rian Crossing	ן Distance Ana	lysis Results
-----------------	---------------	----------------	---------------

Pedestrian Crossing Leg	Crossing Distance (ft)	Required Crossing Time (sec)	Provided Crossing Time AM (sec) PM (sec)		
Wootton Parkway & Hurley Avenue			AWI (Sec)	PIWI (SEC)	
North leg (across Hurley Ave)	40	12	45	45	
South leg (across Hurley Ave)	41	12	45	45	
East leg (across Wootton Pkwy)	39	12	16	19	
West leg (across Wootton Pkwy)	36	11	24	21	
Wootton Parkway & Site Driveway*					
North Leg	49	14	17	17	
East Leg	44	13	20	20	

<sup>\*</sup>The provided crossing times are the minimum provided times as the site driveway movements and the ped phase on the east leg operate on recall.

#### **Existing Bicycle Facilities**

The site has access to several bicycle facilities, including the Carl Henn Millennium Trail, and a signed shared roadway along Hurley Avenue. The Carl Henn Millennium Trail runs in a loop around the City of Rockville, connecting to various other bicycle facilities. The signed share roadway on Hurley Avenue connects the site to Woottons Mill Park, where more bicycle trails can be found.

The Rockshire Village development will also add sharrow markings to Hurley Avenue, in addition to the existing shared roadway signage.

#### **Existing Transit Service**

The site is well served by local and regional transit services. The Montgomery County Ride On bus systems provide local transit service adjacent to the site. Three (3) Montgomery County Ride On routes (the 45, 56, and 301 routes) service the site, providing connections to Metrorail and other destinations.

Additionally, the site is under three (3) miles from the Rockville Metrorail, MARC, and Amtrak station. The project site is located less than 10 minutes (2.9 miles) from the Rockville Metrorail station, which is served by the Red Line. The Red Line runs from

the Shady Grove station in Rockville to Glenmont in Silver Spring by way of downtown Washington, DC. The Red Line connects with the other five (5) Metrorail lines, allowing access to much of the Washington, DC metropolitan area via transit. The Rockville Metrorail Station is also served by MARC's Brunswick Line (Commuter Rail) and Amtrak (inter-city service). The Brunswick Line provides peak hour access to and from downtown Washington, DC.

Combined, these transit services provide ample local, city wide, and regional transit connections and link the site with major cultural, residential, employment, and commercial destinations throughout the region. Figure 13 shows the nearby transit routes and stops in the study area.

Table 9 shows a summary of the bus route information for the routes that serve the site, including service hours, headways, and distance to the nearest bus stop.

Table 10 shows a detailed inventory of the amenities available at each of the existing bus stop within the transit study area (1/4 mile from the site).

**Table 9: Local Bus Route Information** 

Route Number		Service H	Headway	Walking		
	Route Name	Weekdays	Saturdays	Sundays	(minutes)	Distance to Nearest Stop
45	Rockville Regional Transit Center-Twinbrook/Rockville Senior Center	5:26am-8:34pm	6:35am-8:30pm	N.A.	30 - 45	On site
56	Rockville-Lakeforest	5:18am-10:09pm	6:23am-9:23pm	6:28am-9:27pm	15 - 45	On site
301	Rockville-Tobytown	6:19am-6:57pm	6:19am-6:57pm	6:19am-6:57pm	90 - 95	On site

**Table 10: Bus Stop Inventory** 

Table 10: Bus Stop	inventory	Amenities									
Location	Stop ID	Routes Served	Bus stop flag	Route map & sched- ule	Land- ing pad	Side- walk	Bench	Shelter	Dynam -ic info sign	Light- ing	Trash Recp.
Wootton Parkway & Hurley Avenue (NB)	27654	45, 56, 301	•		•	•	•	•			•
Wootton Parkway & Hurley Avenue (SB)	27614	45, 56, 301	•		•	•				•	•
Wootton Parkway & Site Driveway (WB)	27652	56, 301	•		•	•					•
Wootton Parkway & Site Driveway (EB)	27616	56, 301	•		•	•				•	•
Wootton Parkway & Paulsboro Drive (NB)	27650	56, 301	•		•	•	•	•		•	•
Wootton Parkway & 2100 (SB)	27618	56, 301	•		•	•				•	
Hurley Avenue & Wootton Parkway (NB)	23344	45	•		•	•					
Hurley Avenue & Wootton Parkway (SB)	17030	45	•		•	•				•	
Hurley Avenue & Northcliffe Drive (NB)	23346	45	•		•	•					
Hurley Avenue & Sherbrooke Way (SB)	17029	45	•		•	•				•	
Hurley Avenue & Monet Drive (NB)	23348	45	•		•	•					
Hurley Avenue & Bouldercrest Court (SB)	17028	45	•		•	•					
Hurley Avenue & Feather Rock Drive (NB)	17027	45	•		•	•					
Hurley Avenue & Feather Rock Drive (SB)	23350	45	•		•	•					

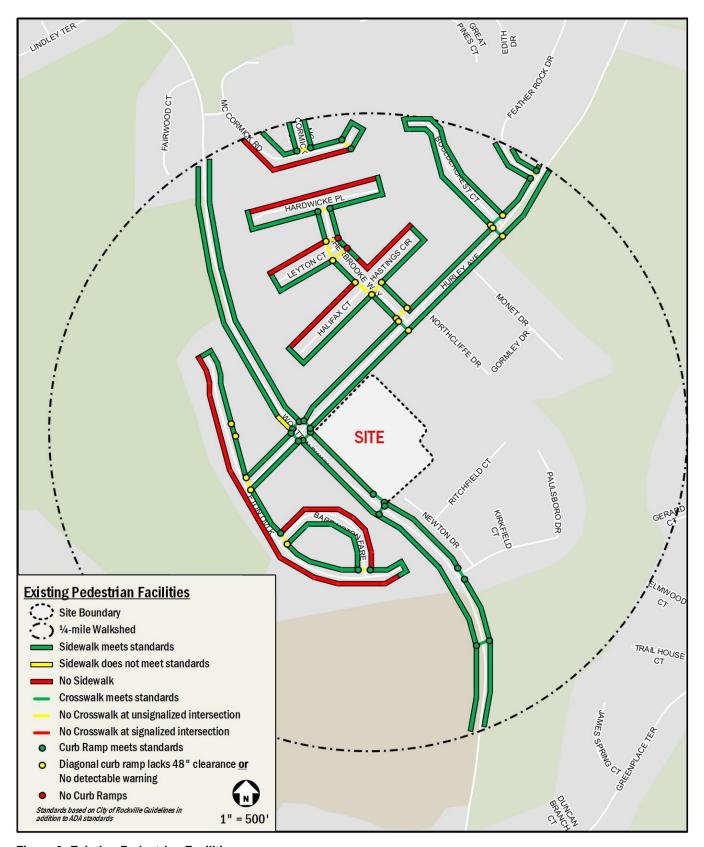


Figure 9: Existing Pedestrian Facilities

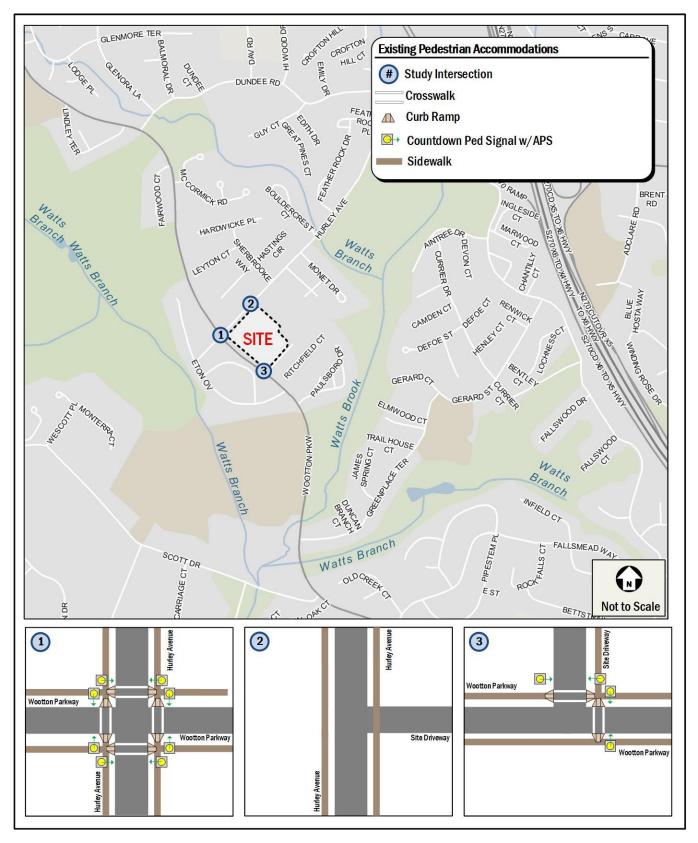


Figure 10: Existing Pedestrian Accommodations



Figure 11: Streetlight Inventory

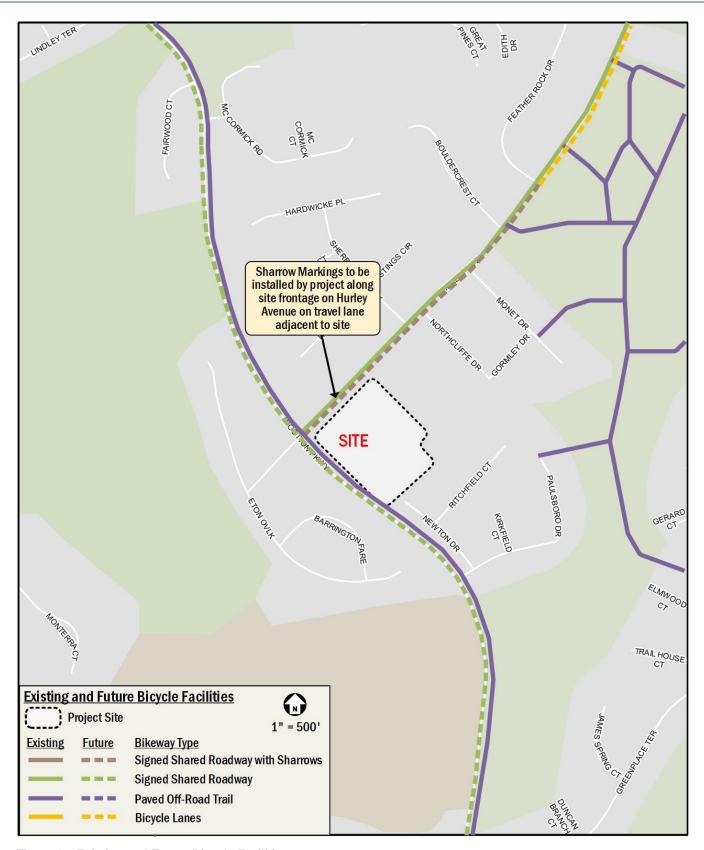


Figure 12: Existing and Future Bicycle Facilities

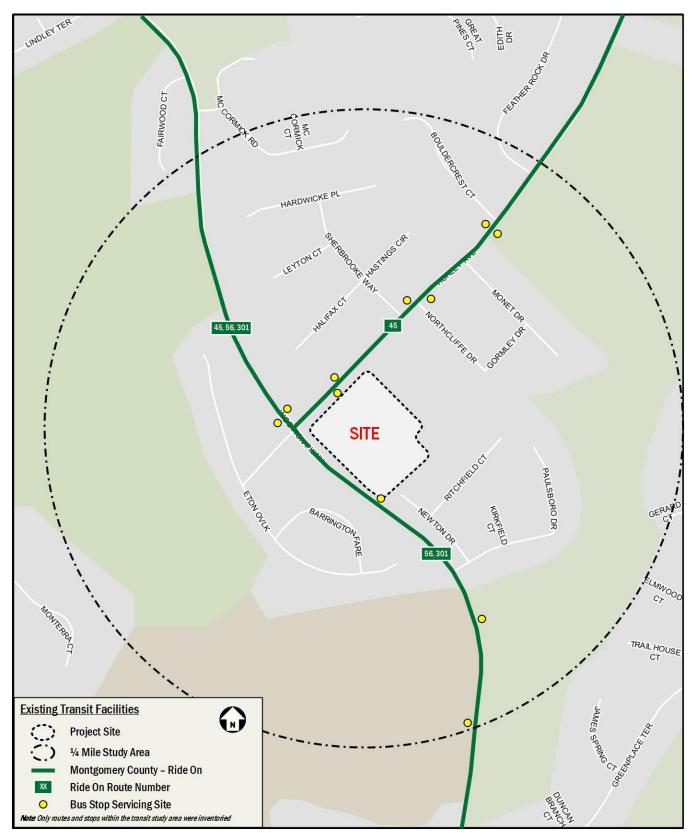


Figure 13: Existing Transit Facilities

## **Background Conditions**

This section evaluates the forecasted 2025 background traffic conditions in the study area, including planned multimodal improvements to the transportation network by other agencies around the project site. Traffic projections for the background conditions consist of:

- Existing peak hour traffic volumes at identified study intersections,
- The addition of approved site-generated trips based on the existing land use,
- Rerouted cut-through site traffic,
- Approved development projects, and
- Traffic growth from land uses outside the transportation study area.

### Approved Grocery Land Use Trips

The approved trips generated by the existing grocery were added into the background conditions as approved by City of Rockville Staff during the scoping process. Grocery pass-by trips were also included in the analysis.

Trip generation for the grocery store was calculated using ITE's 11<sup>th</sup> Edition Trip Generation Manual, specifically Land Use Code 850, "Supermarket", assuming 52,000 square feet of grocery store space. The distribution assumptions for the existing grocery trips were vetted by City of Rockville Staff during the scoping process and are presented in Figure 22 and in Figure 23. These volumes are shown in Figure 14.

Based on the CTR guidelines, pass-by reduction is allowed to be applied to the existing retail use. Pass-by trips are those that would have otherwise traveled on a street adjacent to the development even without the existing grocery store. The pass-by reduction percentages used in this study were based on the average pass-by percentages retrieved from ITE Trip Generation Handbook, 3<sup>rd</sup> Edition. The applied pass-by reductions for the existing grocery retail are 36 percent for the afternoon peak hour and are shown in Figure 15.

The total approved grocery trips with cut-through are presented in Figure 16.

#### **Existing Cut-Through Traffic**

Under existing conditions and as shown in Figure 7, high levels of cut-through traffic travel through the site during the morning peak hour by entering at the Hurley Avenue access point and

exiting at the Wootton Parkway access point. During the morning peak hour cut-through traffic that does not exceed 15 vehicles is also observed in the opposite direction with vehicles entering at the Wootton Parkway access point and exiting at the Hurley Avenue access point.

During the afternoon peak hour, the number of vehicles entering and exiting the site at the Hurley Avenue access point and cutting through the project site does not exceed 25 vehicles.

As the project will be designed to feature low-speed/low-volume residential roadways that are not conducive to high travel speeds or cut-through travel patterns, the existing cut-through trips were rerouted and assigned to Hurley Avenue and Wootton Parkway.

Because the Background Conditions include the approved trips generated by the existing grocery store, it is assumed that the grocery store operations and internal traffic circulation do not support cut-through travel patterns through the project site, therefore the existing cut-through trips were removed and rerouted under Background Conditions.

The rerouted cut-through trips are shown in Figure 17.

#### **Background Developments**

Following national methodologies and City of Rockville guidelines, a background development must meet the following criteria to be incorporated into the analysis:

- Be located in the study area, defined as having an origin or destination point within the cluster of study area intersections;
- · Have entitlements; and
- Have a construction completion date prior or close to the proposed development.

Based on these criteria, no background development projects were identified in the vicinity of the Rockshire Village development.

#### Background Regional Traffic Growth

While background developments represent local traffic changes, regional traffic growth is typically accounted for using growth rates. The growth rates used in this analysis were derived using MDOT SHA historical AADT data for the past 10 years, included in the technical attachments. Where negative growth was observed, a conservative 0.10 percent annual growth rate was applied to the roadway. Growth rate assumptions for background

conditions are shown in Table 11. The traffic volumes generated by the inherent growth along the network are shown in Figure 18.

Table 11: Growth Rate Data and Applied Annual and Total Growth Rates

Road	Average Annual AADT Growth 2011- 2020	Annual Growth Rate Assumption	Proposed Total Growth Between 2022 and 2025
Hurley Ave	-2.53%	0.10%	0.30%
Wootton Pkwy	-2.19%	0.10%	0.30%

## Background Geometry and Operations Assumptions

Following national and City of Rockville CTR methodologies, a background improvement must meet the following criteria to be incorporated into the analysis:

- Be funded; and
- Have a construction completion date prior to or close to the proposed development.

Based on these criteria, the following improvements are considered background improvements:

- Hurley Avenue Sharrow Pavement markings between Wootton Parkway and Feather Rock Drive:
  - This improvement is identified in the Bikeway Master Pian Implementation Strategy to be constructed in fiscal year 2023 based on Hurley Avenue's paving schedule.
- Wootton Parkway Sharrow Pavement markings between Darnestown Road and Rockville Pike:
  - This improvement is identified in the Bikeway Master Pian Implementation Strategy to be completed in fiscal year 2023.

The identified background projects do not affect the study intersections' geometry or operations. The planned bicycle facilities are presented in Figure 12.

The analyzed background geometry and operations at all study intersections are consistent with the existing geometry and operations shown in Figure 8.

### **Background Conditions Capacity Analysis**

In summary the Background Conditions reflect the following traffic volumes:

- Existing peak hour traffic volumes at identified study intersections shown in Figure 7,
- The addition of approved site-generated trips based on the existing land use shown in Figure 16,
- Rerouted cut-through site traffic shown in Figure 17
- Traffic growth from land uses outside the transportation study area shown in Figure 18.

The total peak hour traffic volumes for the 2025 background conditions are shown in Figure 19.

Intersection capacity analyses were performed for the background conditions at the study intersections shown in Figure 5 for the morning and afternoon peak hours using the CLV methodology as outlined in the Appendix E of the CTR guidelines. Table 12 summarizes the capacity analysis results for background conditions. Detailed CLV analyses are provided in the Technical Attachments.

As Table 12 shows, all study intersections operate at acceptable levels of service under background conditions.

**Table 12: Summary of Background Conditions Intersection Capacity Results** 

Interception	MOE	Exis	sting	Background		
Intersection		AM	PM	AM	PM	
Hurley Avenue & Wootton Parkway	CLV	593	600	786	689	
	v/c	37%	40%	49%	46%	
	LOS	Α	Α	Α	Α	
2. Hurley Avenue & Site Driveway	CLV	242	110	237	155	
	v/c	15%	7%	15%	10%	
	LOS	Α	Α	Α	Α	
3. Wootton Parkway & Site Driveway	CLV	666	534	832	911	
	v/c	42%	36%	52%	61%	
	LOS	А	Α	Α	Α	

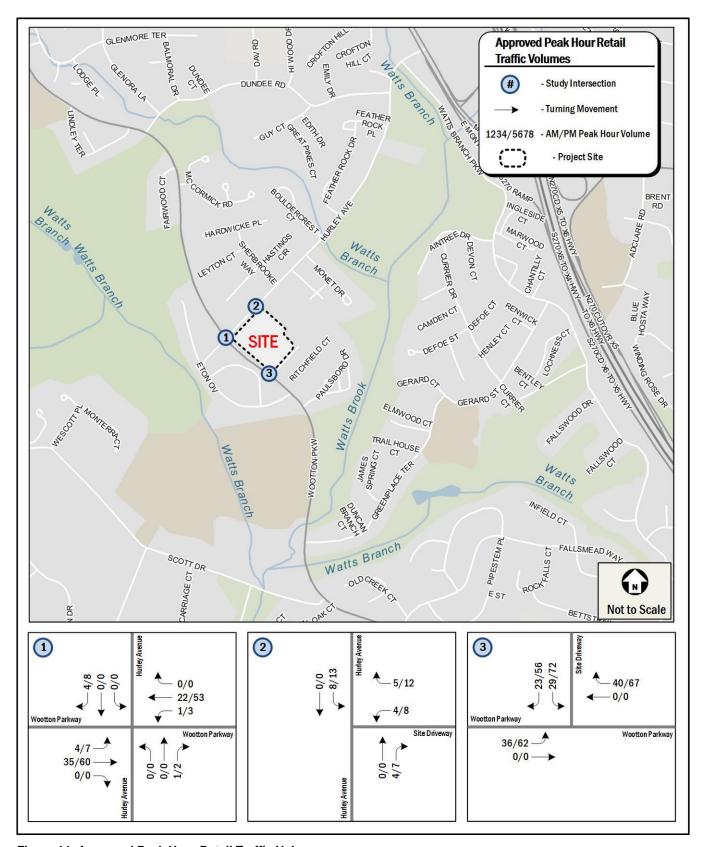


Figure 14: Approved Peak Hour Retail Traffic Volumes

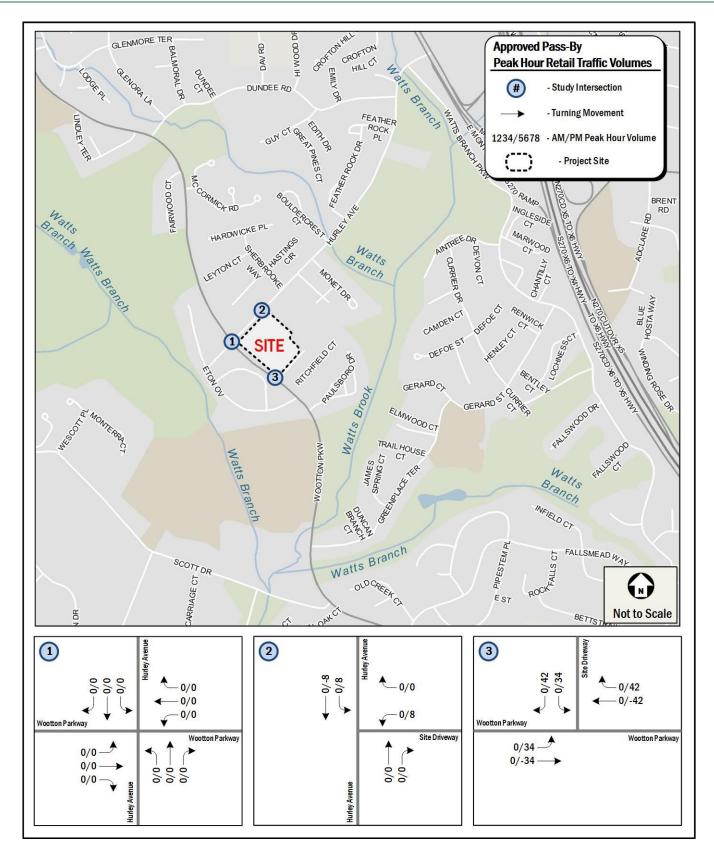


Figure 15: Approved Pass-by Peak Hour Retail Traffic Volumes

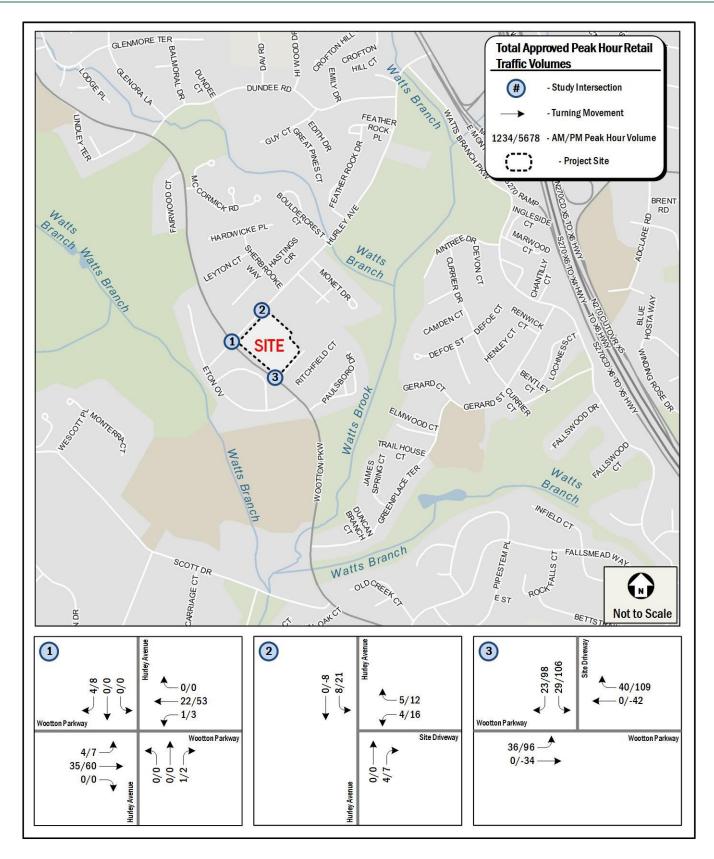


Figure 16: Total Approved Peak Hour Retail Traffic Volumes

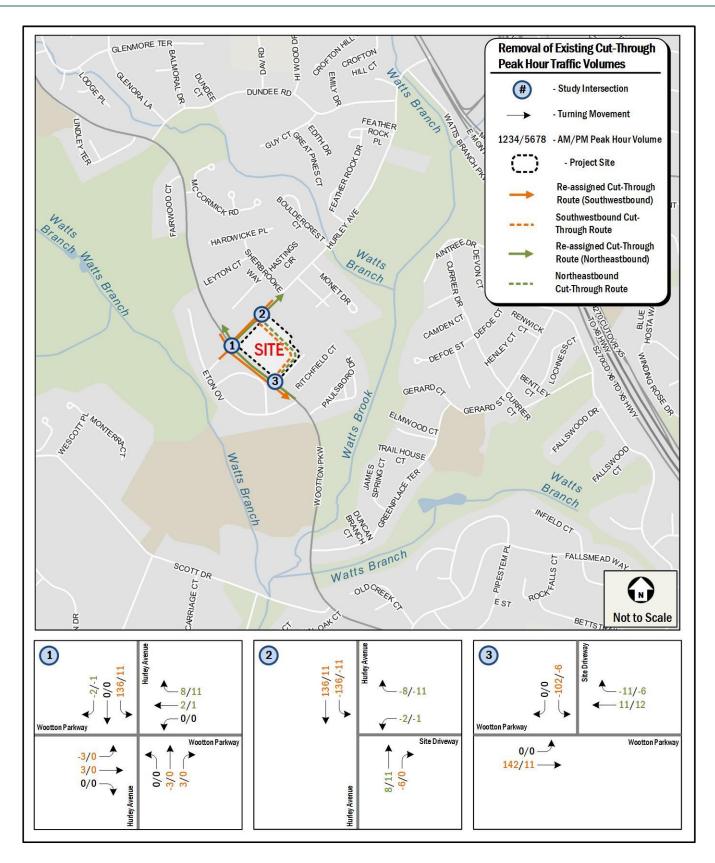


Figure 17: Removal of Existing Cut-Through Peak Hour Traffic Volumes

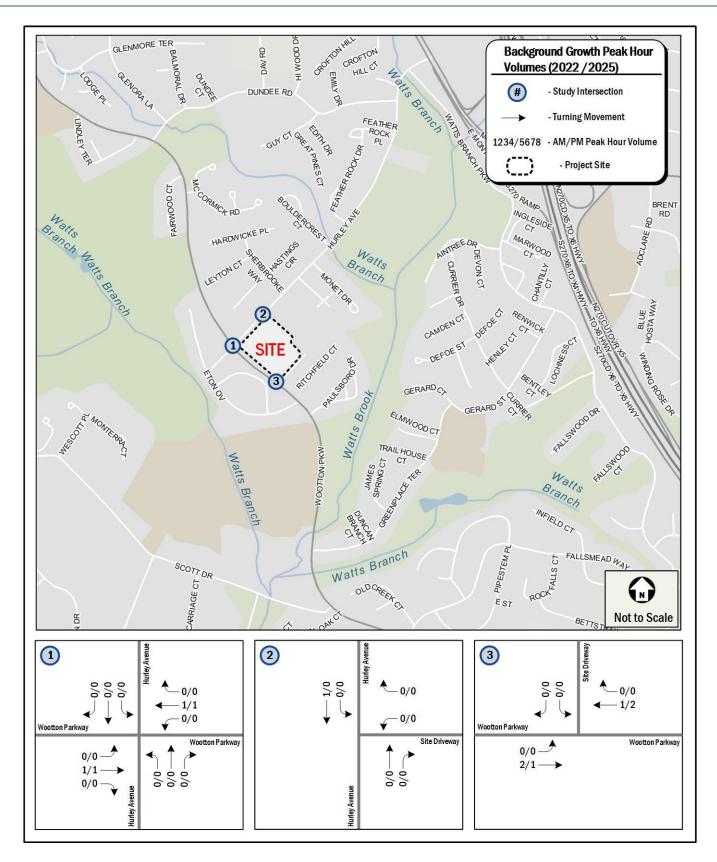


Figure 18: Background Growth Peak Hour Traffic Volumes

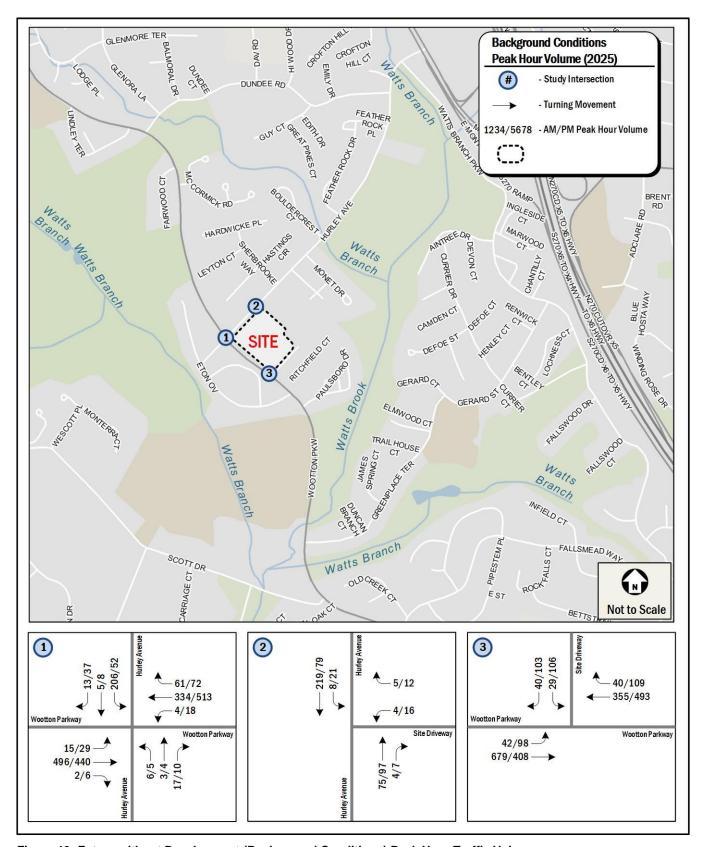


Figure 19: Future without Development (Background Conditions) Peak Hour Traffic Volumes

# Project Trip Generation and Distribution

This section outlines the transportation demand of the proposed Rockshire Village site redevelopment. It summarizes the projected trip generation of the site, credit for existing trips generated by existing occupants of the site, and applicable trip reduction. The trip distribution assumptions and trip assignment for the project-generated trips are also reviewed in this section.

# **Proposed Trip Generation**

The proposed development plan includes a maximum of 60 housing units (29 townhomes and 31 single-family homes) and a maximum of 5,500 square feet retail building.

Weekday peak hour trip generation for the proposed use was calculated based on the methodology outlined in the ITE *Trip Generation Manual*, 11<sup>th</sup> Edition. Residential trip generation was calculated using ITE Land Use Code 220, "Multifamily Housing (Low-Rise)", and ITE Land Use Code 210, "Single-Family Detached Housing". Retail trip generation was calculated using ITE Land Use Code 930, "Fast Casual Restaurant" as a conservative measure to analyze the highest potential generator in the retail space.

## **Existing Trip Generation Reduction**

The existing land use is retail consisting of approximately 52,000 square feet dedicated to grocery store retail use.

Weekday peak hour trip generation for the existing use was calculated based on the methodology outlined in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 11<sup>th</sup> Edition. Trip generation for the existing use at the site was calculated using ITE Land Use Code 850, "Supermarket".

Based on the CTR guidelines, pass-by reduction was applied to the existing retail use.

### Trip Generation Summary

With the credit of existing approved site trips, the proposed project will generate 83 fewer net new trips in the morning peak

hour (69 fewer inbound trips, 14 fewer outbound trips) and 163 fewer net new trips in the afternoon peak hour (70 fewer inbound trips, 93 fewer new outbound trips) as outlined in Table 13.

Detailed calculations are provided in the Technical Attachments of this report.

# Trip Distribution Assumptions and Trip Assignment

Residential trip distribution for the site-generated trips was determined based on: (1) Table 2-6 of the M-NCPPC LATR Guidelines, included in the Technical Attachments, (2) existing travel patterns in the study area, (3) the site driveway layout of the development, and (4) in consultation with City Staff during the scoping process.

Retail trip distribution for the site-generated trips was determined based on: (1) TMC data collected at the Wootton Parkway & Hurley Avenue intersection on December 14, 2022, (2) existing travel patterns in the study area, (3) the site driveway layout of the development, and (4) in consultation with City Staff during the scoping process.

Based on traffic patterns and a comprehensive review of the site access locations, the site-generated trips were distributed through the study area intersections. A summary of trip distribution assumptions and routing for each element of the development is provided on Figure 20 for residential inbound trips, Figure 21 for residential outbound trips, Figure 22 for retail inbound trips, and Figure 23 for retail outbound trips.

The assignment of site-generated residential traffic volumes through the study intersections is shown on Figure 24. The assignment of site-generated retail traffic volumes through the study intersections is shown on Figure 25. The total proposed site trip assignments are presented in Figure 26.

Table 13: Rockshire Village Site Trip Generation Summary

Updated Development Program Project Trip Generation*											
Land Use	Size		AM Peak Hour (veh/hr)			/I Peak I (veh/hi		ADT (veh)	Sat Peak Hour (veh/hr)		
		ln	Out	Total	ln	Out	Total		ln	Out	Total
Existing Site Trip Generation											
Retail with Grocery	52,000 sf	88	61	149	233	232	465	4,876	263	262	525
Pass-by Reduction for	Grocery (36% for PM, 26% for SAT)**				-84	-84	-168		-68	-68	-136
	Total Primary Grocery Trips	88	61	149	149	148	297	4,876	195	194	389
	Updated Dev	/elopn	nent Pro	gram Tri	p Gene	ration					
Residential (220)	29 units	8	24	32	21	12	33	261	6	6	12
Residential (210)	31 units	7	19	26	21	12	33	344	19	17	36
	Subtotal Residential Trips (60 units)	15	43	58	42	24	66	605	25	23	48
Retail (Fast Casual)	5,500 sf	4	4	8	38	31	69	534	99	81	180
Updated Program Proposed Trips		19	47	66	80	55	135	1,139	124	104	228
	Net New Primary Trips	-69	-14	-83	-69	-93	-162	-3,737	-71	-90	-161

<sup>\*</sup>Latest edition of the ITE Trip Generation Manual used (11th ed.)

<sup>\*\*</sup>Based on average pass-by percentages from ITE Trip Generation Handbook, 3<sup>rd</sup> Edition (PM from LU 850 Supermarket, SAT from LU 820 Shopping Center)

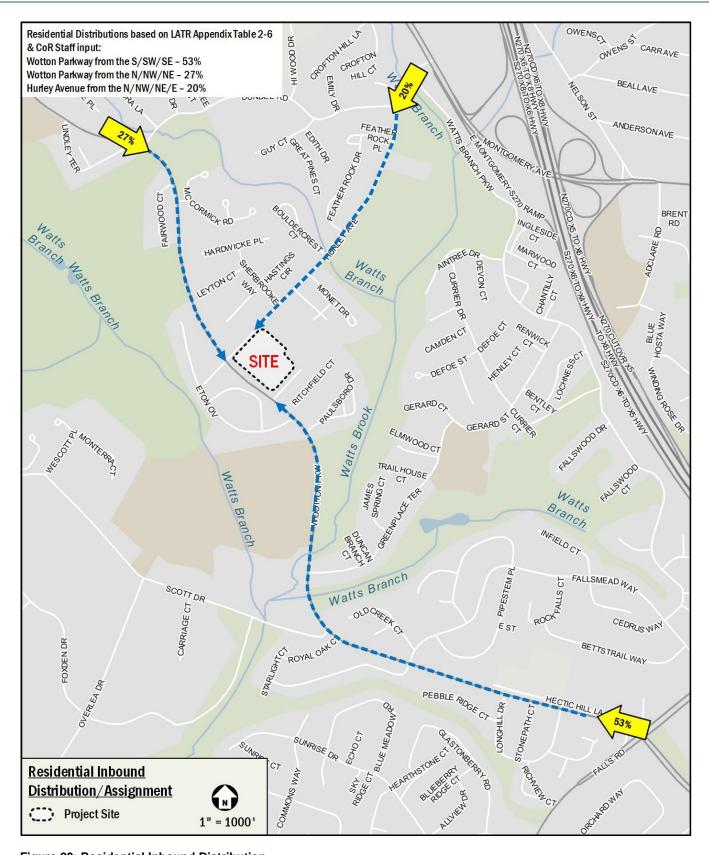


Figure 20: Residential Inbound Distribution

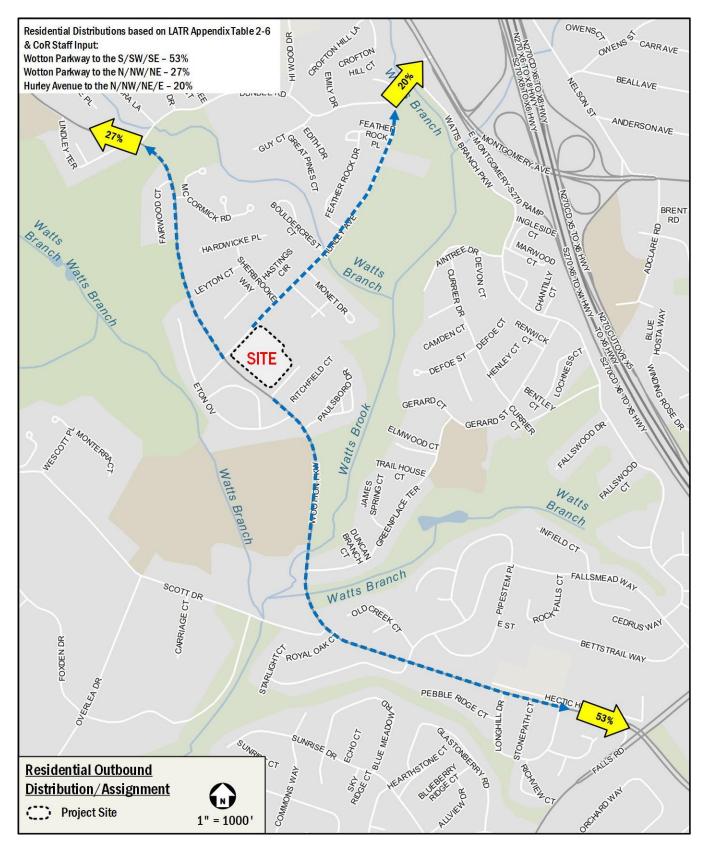


Figure 21: Residential Outbound Distribution

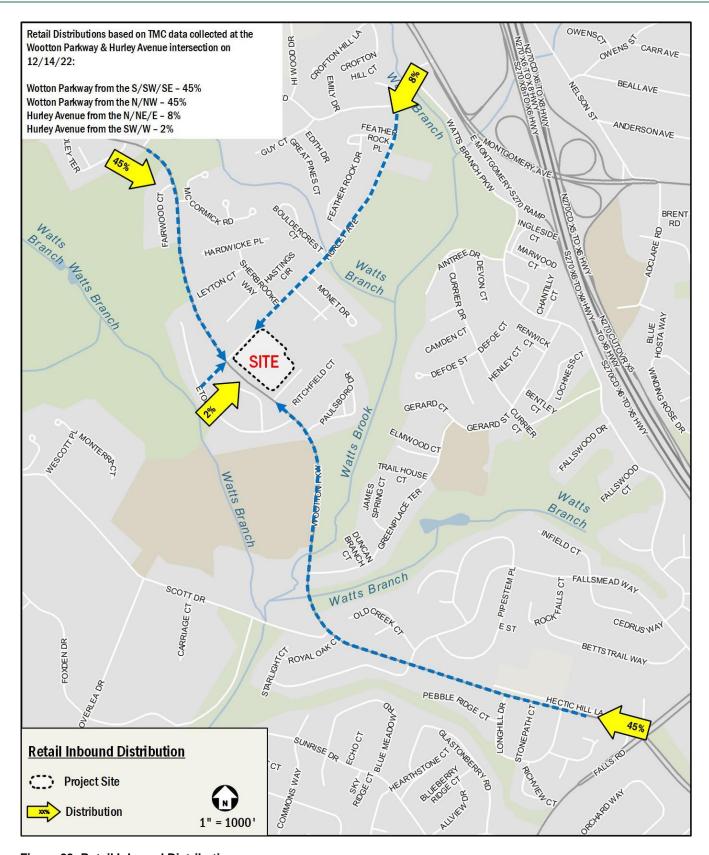


Figure 22: Retail Inbound Distribution

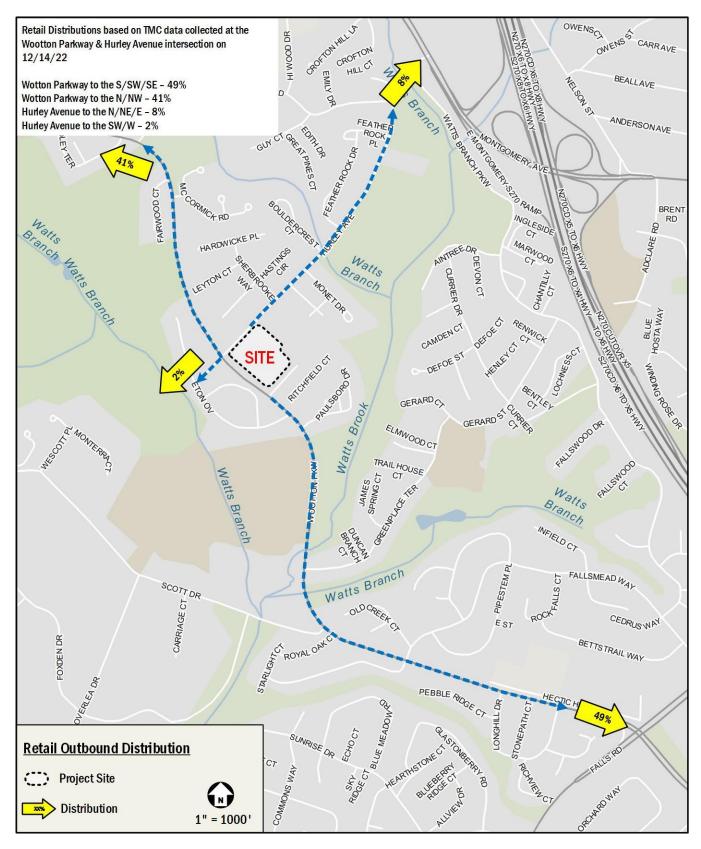


Figure 23: Retail Outbound Distribution

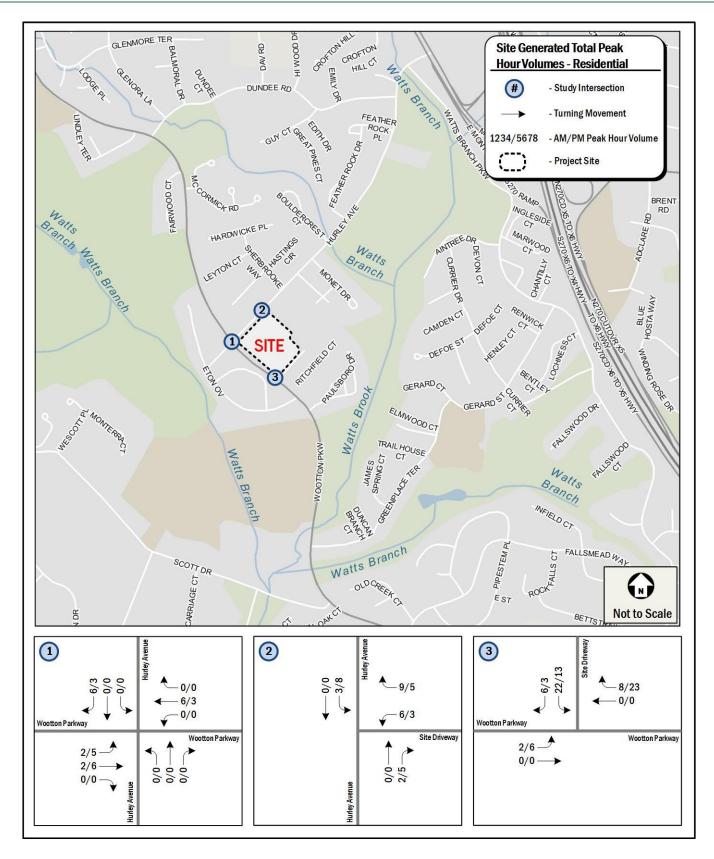


Figure 24: Site-Generated Residential Peak Hour Traffic Volumes

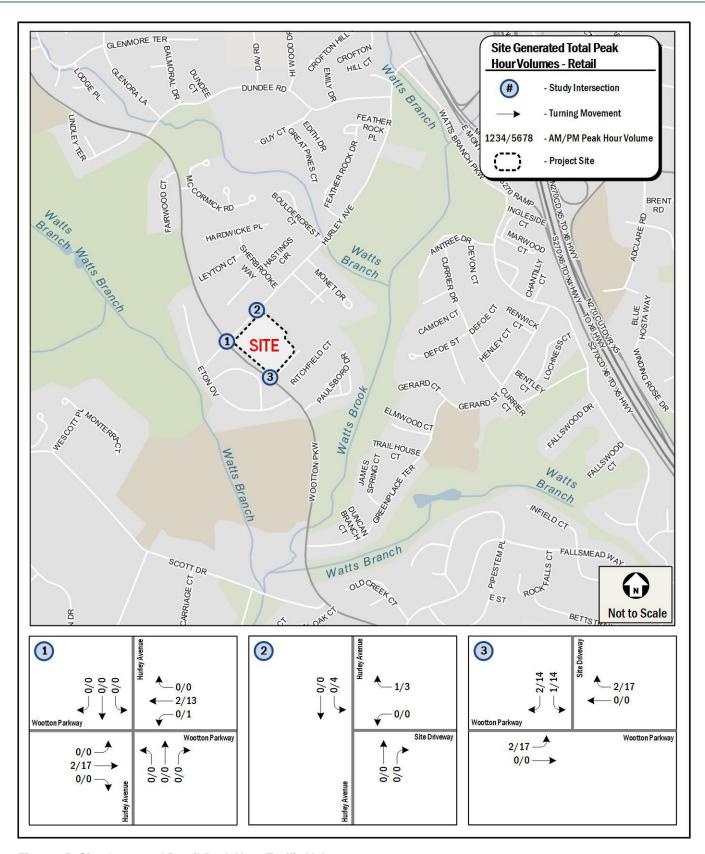


Figure 25: Site-Generated Retail Peak Hour Traffic Volumes

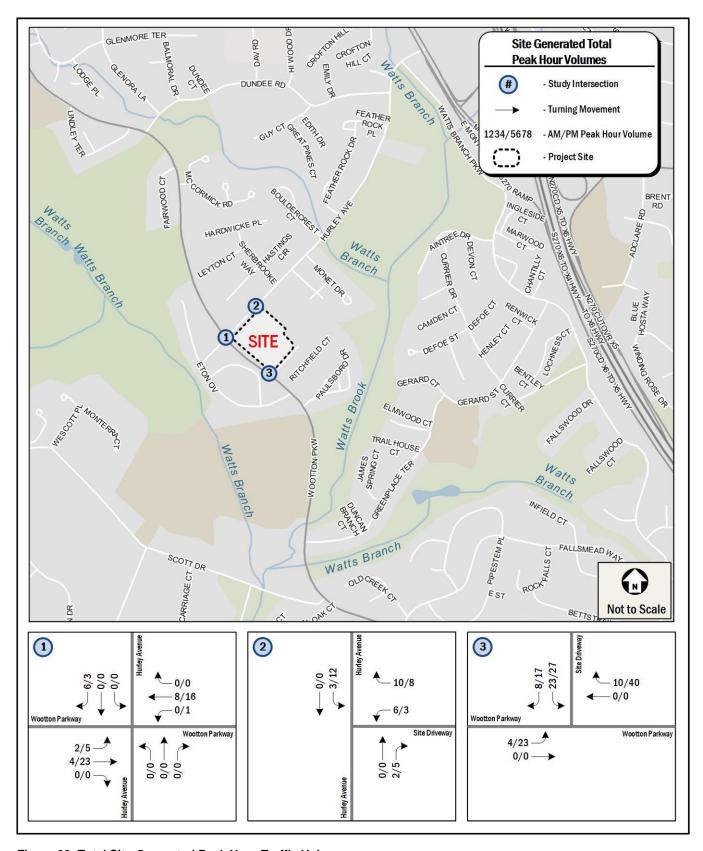


Figure 26: Total Site-Generated Peak Hour Traffic Volumes

# **Total Future Conditions**

This section summarizes the capacity analysis results at the study intersections for Total Future conditions. The Total Future traffic volumes consist of the following:

- Background volumes shown in Figure 19
- The removal of the approved retail volumes based on the existing grocery land use (and pass-by volumes), shown in Figure 27 and Figure 28, and
- The addition of the total traffic volumes generated by the proposed development shown in Figure 26.

Thus, the Total Future traffic volumes include traffic generated by the existing volumes, background developments, background growth, the removal of approved (existing) retail volumes, and the proposed project.

The total future conditions volumes are presented in Figure 29.

# Future Geometry and Operations Assumptions

While the project shifts the Hurley Avenue access point slightly the geometry, lane use, and traffic control at all study intersections in the network remain consistent with existing conditions. The lane configuration and traffic controls assumed in total future conditions are presented in Figure 8.

The project does not include any changes to the lane configuration or curbside management at study intersections or along Wootton Parkway and Hurley Avenue.

# Total Future Conditions Capacity Analysis

Intersection capacity analyses were performed for the Total Future conditions at the study intersections shown in Figure 5 for the morning and afternoon peak hours. The CLV methodology was used to analyze the study intersections as outlined in Appendix E of the CTR guidelines.

Table 14 summarizes the capacity analysis results for Total Future conditions. Detailed CLV analyses are provided in the Technical Attachments.

It was found that under Total Future conditions, all study intersections continue to operate well within the City's established level of service thresholds.

Based on the CLV methodology and results presented in Table 14 the project does not impact capacity at any study intersection and the trips generated by the proposed project can be adequately accommodated in the existing roadway network.

# Site Impact and Mitigation Requirements

Based on the City of Rockville CTR guidelines and established mitigation requirements, the project is not required to mitigated roadway conditions as the project results in fewer trips relative to the existing grocery land use and the project does not impact auto capacity at any of the analyzed study intersections.

**Table 14: Summary of Total Future Conditions Intersection Capacity Results** 

Intersection	MOE	Exis	sting	Backg	round	Total Future	
Intersection	MOE	AM	PM	AM	PM	AM	PM
Hurley Avenue & Wootton Parkway	CLV	593	600	786	689	750	641
	v/c	37%	40%	49%	46%	47%	43%
	LOS	Α	Α	Α	Α	Α	Α
2. Hurley Avenue & Site Driveway	CLV	242	110	237	155	238	126
	v/c	15%	7%	15%	10%	15%	8%
	LOS	Α	Α	Α	Α	Α	Α
3. Wootton Parkway & Site Driveway	CLV	666	534	832	911	747	612
	v/c	42%	36%	52%	61%	47%	41%
	LOS	Α	Α	Α	Α	Α	Α

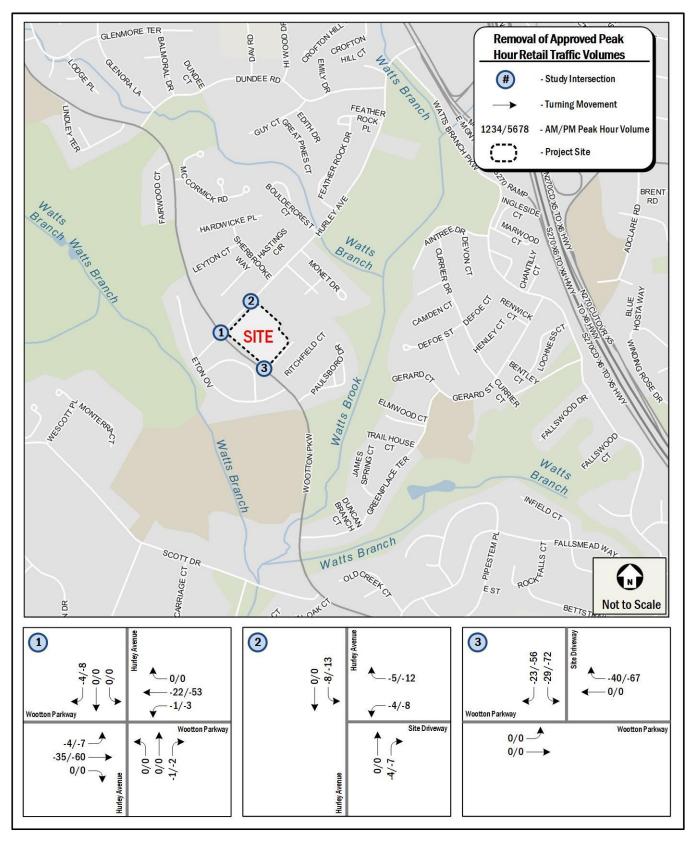


Figure 27: Removal of Approved Peak Hour Retail Traffic Volumes

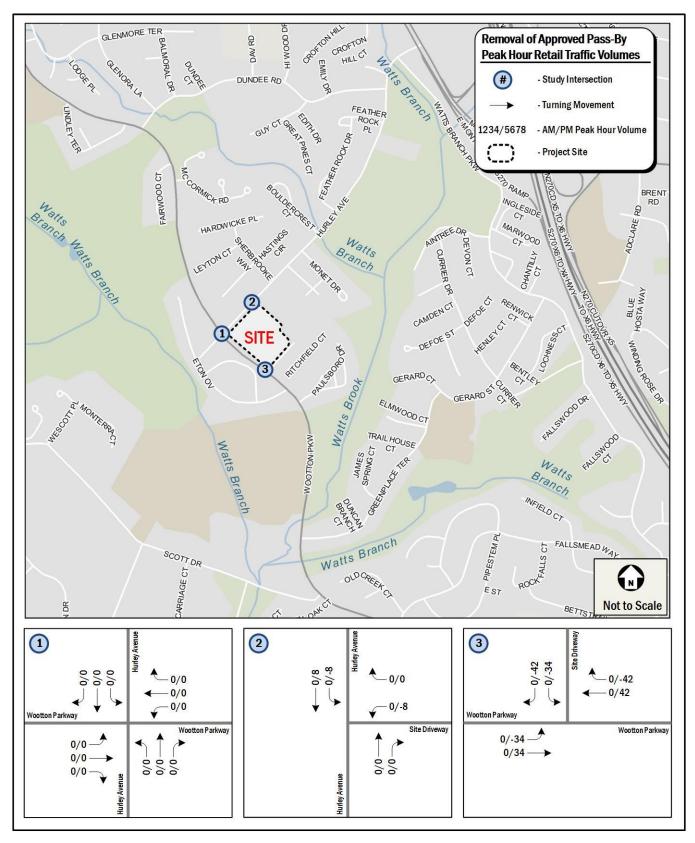


Figure 28: Removal of Approved Pass-by Peak Hour Retail Traffic Volumes

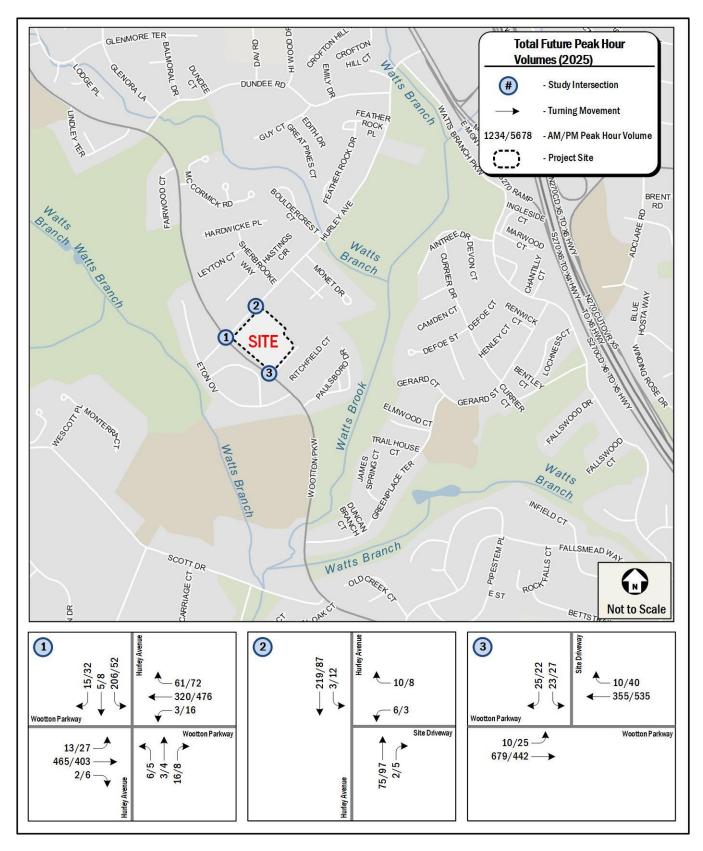


Figure 29: Future with Development Peak Hour Traffic Volumes (Total Traffic Conditions)

# Other Studies

This section outlines any special study requested by the City of Rockville during the scoping process. Per the City's Staff request, a Pedestrian Study at the Wootton Parkway & Site Driveway intersection was conducted and summarized in this section. A Speed Study at two (2) locations near the site was also requested and conducted. The findings of the speed studies are also summarized in this section.

### Pedestrian Study

As part of the pedestrian study the following were reviewed and/or evaluated:

- Pedestrian volumes during the peak hours
- Existing pedestrian facilities and accommodations
- Crossing time and distance
- Crash data
- Streetlights

#### **Peak Hour Pedestrian Volumes**

Gorove Slade collected pedestrian counts during the morning and afternoon commuter peak periods on Thursday, December 14, 2022.

Figure 30 shows the distribution of pedestrian volumes crossing the Site Driveway using the northern crosswalk and crossing Wootton Parkway using the eastern crosswalk. Figure 31 shows the peak period distribution of total hourly pedestrian volumes using crosswalks at the Wootton Parkway & Site Driveway intersection. As Figure 30 and Figure 31, show, the peak hour of pedestrians crossing this intersection is between 7:30 am and 8:30 am in the morning and between 4:00 pm and 5:00 pm in the afternoon/evening. The pedestrian peak hour during the morning coincides with the Thomas S. Wootton High School morning arrival period. The afternoon period does not include the school's dismissal and the captured volumes are consistent with afterschool departures.

During the morning peak hour, 17 pedestrians used the northern crosswalk during the morning peak hour and one (1) pedestrian used the eastern crosswalk. It can be assumed that at least 17 pedestrians were traveling on Wootton Parkway's Carl Henn Millennium Trail along the project site frontage during the morning peak hour. Similarly, during the afternoon peak hour, at least approximately 13 pedestrians were traveling on Wootton

Parkway's Carl Henn Millennium Trail. Figure 32 illustrates the peak hour pedestrian volumes at the study intersection.

During the morning peak period, approximately 39 pedestrians used the northern crosswalk and approximately four (4) pedestrians used the eastern crosswalk. During the afternoon peak period approximately 29 pedestrians used the northern crosswalk and approximately six (6) pedestrians used the eastern crosswalk. Detailed pedestrian counts are included with turning movement count data that is available in the Technical Attachments of this report.

#### **Pedestrian Facilities and Accommodations**

The Carl Henn Millennium Trail along the northeastern side of Wootton Parkway near the intersection is a 10-foot-wide shared use path striped as a cycle track to accommodate bidirectional bicycle traffic along with pedestrians. The southwestern side of Wootton Parkway has a 5-foot-wide sidewalk.

The curb ramps at each landing of the two (2) crosswalks meet City of Rockville and ADA standards. Detectable warning surfaces are available on all the curb ramps.

A streetlight inventory along the project site frontage was reviewed under the existing conditions. Currently, there is one (1) streetlight at the southwestern corner of the intersection. Lighting along Wootton Parkway is provided with streetlights lining the southwestern sidewalk as shown in Figure 11.

### **Pedestrian Crossing Time, Distance**

A pedestrian crossing distance analysis was conducted at study intersections to determine the existing crossing conditions and signal timing necessary to meet the required pedestrian crossing needs. The required pedestrian crossing time was calculated by dividing the distance by an average walking speed of 3.5 feet per second. Pedestrian crossing times were provided by Montgomery County via signal timing sheets. Table 15 shows the results of the pedestrian crossing distance analysis. Based on the results of the analysis, pedestrians are provided sufficient crossing time.

The eastern crosswalk across Wootton Parkway operates as an exclusive pedestrian-only phase that operates on pedestrian recall only following the Rockshire access vehicle phase. The pedestrian phase on the north crosswalk across the site driveway runs concurrently with Wootton Parkway vehicular traffic.

**Table 15: Pedestrian Crossing Distance Analysis Results** 

Pedestrian Crossing Leg	Crossing Distance (ft)	Required Crossing Time	Minimum Provide Crossing Time AM (sec) PM (se			
	(11)	(sec)	AIVI (SEC)	FIVI (SEC)		
Wootton Pkwy						
& Site Access						
North Leg*	49	14	17	17		
East Leg	44	13	20	20		

<sup>\*</sup> The crossing time on the north leg across the site driveway is the minimum provided time as other phases operate on recall.

### **Pedestrian Delay**

According to the signal timing information provided by the City of Rockville, the minimum split interval for the major approaches at the Wootton Parkway & Site Driveway intersection is 50 seconds during both the morning and the afternoon peak hours. The maximum split interval for the minor approach on the Site Driveway is approximately 22 seconds in total during both the morning and the afternoon peak hours.

Therefore, it is expected that pedestrians crossing the Site Driveway will experience a maximum 22 seconds of waiting time or delay, and pedestrians crossing Wootton Parkway will experience a maximum of 50 seconds of waiting time or delay.

#### **Pedestrian Safety**

To evaluate the pedestrian safety at the Wootton Parkway & Site Driveway intersection, crash data from the Montgomery County's Interactive Crash Map and the Montgomery County's Crash Reporting – Incidents Data online database were reviewed.

One (1) crash was reported from January 2015 through April 2023 at the Wootton Parkway & Site Driveway. The incident occurred in 2016 and was categorized as a same-direction/rearend incident without reported injuries. No pedestrians or bicycles were reported to be involved.

Figure 33 shows the crash data as retrieved from the dataMontgomery visualization tool.

# Speed Study

As part of this CTR, speed studies were requested at the following locations:

- Wootton Parkway south of Hurley Avenue between the site driveway and Paulsboro Drive (#1)
- Wootton Parkway north of the Hurley Avenue & Wootton Parkway intersection (#2)

The speed data was collected on two (2) different dates: Tuesday, December 20, 2022 and Tuesday, January 10, 2023. Schools were in session on the days the data was collected. The collected speed data is included in the Technical Attachments.

Table 16 summarizes the observed speed data, including the 50<sup>th</sup> and 85<sup>th</sup> percentile speeds for each direction at the study location. The plotted cumulative distributions and the density distributions of the speed data are included in the Technical Attachments.

Based on the speed study results, the observed 50<sup>th</sup> and 85<sup>th</sup> percentile speed along Wootton Parkway at both locations do not exceed the posted speed of 35 mph by more than 20 percent.

Speeds were also reviewed specifically around the Thomas S. Wootton High School morning arrival and dismissal periods (7:00 - 8:00 AM and 2:15 - 3:15 PM) when the posted speed limit south of the project site is temporarily reduced to 25 mph. The results of the school period speed studies are also presented in Table 16.

Average speeds did not exceed the reduced posted speed limit by more than 20 percent during the school arrival and departure periods when the speed limit is reduced to 25 mph while 85<sup>th</sup> percentile speeds were found to exceed the reduced speed limit. Neither the average nor the 85<sup>th</sup> percentile speeds were found to exceed the reduced speed limit of 25 mph by at least 12 mph, which is the speeding threshold before a citation can be issued.

The speed study location that captured the temporary reduced speed limit was located on the edge of the reduced speed limit area and there are existing automated enforcement speed cameras located along the Thomas S. Wootton High School frontage monitoring northbound and southbound speeds between the school front loop entrance and exit driveways.

Because the observed average and 85<sup>th</sup> percentile speeds were not found to exceed the posted speed limit of 35 mph or the reduced speed limit of 25 mph during school arrival and dismissal periods by at least 12 mph or more, additional potential speed management measures are not warranted.

**Table 16: Speed Data Summary** 

Roadway	Approach	Posted	Day	1 (12/20/22)	Day 2 (1/10/23)			
Roadway	Approach	Speed Limit	50th %	85th %	Pace	50th %	85th %	Pace
Wootton Parkway (south)	NB	25 mph	28 mph	34 mph	26-36	29 mph	35 mph	26-36
Woollon Farkway (Soull)	SB	35 mph	33 mph	39 mph	30-40	29 mph	35 mph	27-37
Wootton Parkway (south) during	NB	25 mph	24 mph	29 mph	21-31	23 mph	29 mph	21-31
School AM Peak (7:00 - 8:00 AM)	SB	25 mph	26 mph	33 mph	23-33	24 mph	29 mph	22-32
Wootton Parkway (south) during	NB	25 mnh	25 mph	32 mph	23-33	25 mph	34 mph	22-32
School PM Peak (2:15 - 3:15 PM)	SB	25 mph	30 mph	36 mph	27-37	28 mph	34 mph	25-35
Weatten Parkway (north)	NB	35 mph	30 mph	35 mph	28-38	30 mph	35 mph	27-37
Wootton Parkway (north)	SB	35 mpn	34 mph	39 mph	32-42	27 mph	33 mph	24-34

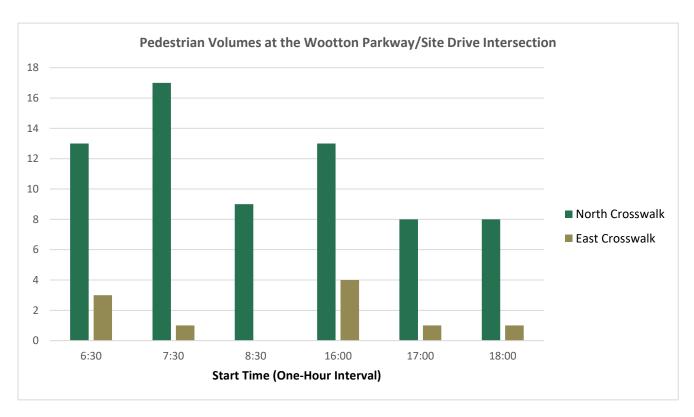


Figure 30: Pedestrian Volumes Crossing MD 355 at King Farm Boulevard/Metro Access Road

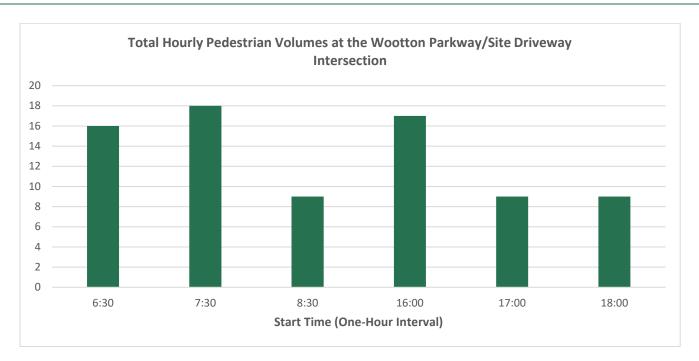


Figure 31: Total Hourly Pedestrian Volumes at the MD 355 & King Farm Boulevard/Metro Access Road Intersection



Figure 32: Peak Hour Pedestrian Volumes



Figure 33: Crash Data: 2015 to Present

# **Summary & Conclusions**

The following report is a Comprehensive Transportation Review (CTR) for the Rockshire Village redevelopment proposed at 2401 Wootton Parkway in the City of Rockville. This report reviews the transportation aspects of the project's development application in compliance with the City of Rockville's CTR guidelines.

The purpose of this study is to evaluate whether the project will generate a detrimental impact to the surrounding transportation network. This evaluation is based on a technical comparison of the existing conditions, background conditions, and total future conditions. This report concludes that **the project will not have a detrimental impact** on the surrounding transportation network.

# **Proposed Project**

The project is located at 2401 Wootton Parkway. Under existing conditions, the project site is improved with a grocery store building.

The project will replace the existing 52,000-square foot grocery building with 60 residential units and 5,500 square feet of retail.

Access to the proposed project will be provided via two (2) curb cuts, one (1) on Hurley Avenue and one (1) on Wootton Parkway, consistent with existing conditions.

The project includes a designated parking area with 30 parking spaces to serve the existing Rockshire HOA Community Center/Pool that abuts the north side of the property.

As part of the project, sharrow markings will be installed along the Hurley Avenue frontage on the northeastern travel lane adjacent to the property.

As part of the project, the Applicant will upgrade the traffic signal equipment at the Wootton Parkway and site access intersection.

### Site Impact and Mitigation Measures

Per the City of Rockville CTR guidelines, the project is not required to evaluate vehicular capacity as it results in an overall reduction in vehicular trips as compared to the existing grocery land use.

The vehicular capacity analysis provided in this report is for informational purposes only and the scope was vetted and approved by the City of Rockville Staff during the scoping process.

In order to determine whether the proposed project will have a negative impact on the transportation network, this report

evaluates future conditions with and without the project based on intersection vehicular capacity analyses using the CLV methodology and the intersection impact thresholds set by City of Rockville CTR guidelines.

None of the analyzed study intersections are impacted by the proposed redevelopment as the project results in an overall reduction of site-generated trips as compared to the existing grocery land use.

The proposed project generates fewer trips than the existing approved grocery trips and will not have a detrimental impact on the surrounding transportation network based on the analysis.

### Summary and Recommendations

This report concludes that the proposed development will not have a detrimental impact on the surrounding transportation network.

The development has several positive elements contained within its design that minimize potential transportation impacts, including:

- The site's adjacency to local and regional transit service;
- The site's location within a well-connected pedestrian and bicycle network;
- Sharrow markings along the site frontage on Hurley Avenue on the travel lane adjacent to the site;
- A new mid-block pedestrian connection to the Millennium Trail:
- An improved connection to the Millennium Trail at the Wootton Parkway access point; and
- Upgrades to the traffic signal equipment at the Wootton Parkway access.

# **Transportation Technical Attachments**

# **Rockshire Village**

City of Rockville, MD

June 9, 2023



# **CONTENTS**

(Note: Click on heading to navigate directly to each section of the Technical Attachments)

- A. Scoping Information
- B. Turning Movement Count Data
- C. Signal Timing Data
- D. CLV Analyses
- E. MDOT SHA Historical AADT Data
- F. Detailed Site Trip Generation Calculations
- G. Table 2-6 M-NCPPC LATR Guidelines
- H. Speed Study Data

# A. Scoping Information



# Comprehensive Transportation Review SCOPING INTAKE FORM

Project Name:	Rockshire										
Permit No. (if available):											
Subject Property Address:	401 Wootton Pkwy, Rockville, MD 20850										
Contact Person:	Katie Wagner, PE, PTOE	Catie Wagner, PE, PTOE									
Contact Phone Number:	202-540-1927										
Contact Email Address:	klw@goroveslade.com										
Proposed Land Use Density:	Use Existing - Grocery Store			Square Foot Units 52,000 sf	age/ Dwelling						
	Proposed - Attached/Dett Units	ached Residentia	ıl	60 units total	(31 SFH, 29 TH)						
	Proposed - retail			5,300 sf							
Trip Generation		Peak Hour	Site T	<b>Frips</b>							
	Peak Period	IN	OU'	T	TOTAL						
	AM	23 / -65(net)	4	8 / -13(net)	38 / -78(net)						
	PM	54 / -95(net)	3:	5 / -95(net)	36/ -208(net)						
	SAT	38 / -157(net)	36	6 / -158(net)	74 / -315(net)						
Proposed Study Area (Boundaries and Intersections)		As requested by Staff, the site access points and the Hurley Avenue and Wootton Parkway intersection will be analyzed using CLV.									
Proposed Access Points:	A full movement driveway on Wootton Parkway and a full movement driveway on Hurley Avenue										
Projected Horizon (Build Out) Date:	2025				-						
Statement of Operations	and 5,300 sf of retail. The community center and po	The project redevelops the existing grocery store on site, replacing it with 60 townhouse units and 5,300 sf of retail. The project includes 36 designated parking spaces for the adjacent community center and pool facility. See attached trip generation spreadsheet for the breakdown of change of uses. The community pool facility trips are not part of the project.									



### **TECHNICAL MEMORANDUM**

To: Faramarz Mokhtari City of Rockville
Andrew Luetkemeier City of Rockville

From: Maribel Wong

Katie Wagner, PE, PTOE

Date: December 14, 2022

Subject: Updated Rockshire Transportation Statement Scope

# Introduction

This memorandum outlines the proposed analysis methodology and assumptions for the proposed transportation statement for the proposed redevelopment of the 2401 Wootton Parkway site located in the City of Rockville.

The project redevelops the existing grocery store site and replaces it with 60 residential units and 5,300 square feet of retail. Parking for the existing community center and pool will be designated in 36 parking spaces near to the existing pedestrian connection between the project site and community center.

The project includes two (2) curb cuts to service the site:

- One (1) relocated access along Hurley Avenue; and
- One (1) existing access along Wootton Parkway.

Per the City of Rockville Comprehensive Transportation Review guidelines, a traffic impact study is not required for the project as the project results in a net reduction in traffic as compared to the existing land uses on site. At the request of City Staff, a transportation statement is proposed with the following components:

- Proposed On-Site Transportation
  - Proposed Access
    - Vehicle Access
    - Pedestrian and Bicycle Access
  - Proposed Pedestrian/Bicycle Facilities
    - Proposed On-Site Facilities
    - Conformance to the approved Bikeway Master Plan
    - Zoning Requirements
  - Curbside Management
    - Designated Pick-Up/Drop-Off Areas
  - Loading
    - Loading Facilities
    - Loading Access and Circulation

- Intersection Capacity Analysis for the morning and afternoon peak hours at the site driveways and the intersection of Wootton Parkway and Hurley Avenue for the following scenarios:
  - o Existing Conditions
  - o Background Conditions
  - Total Future Conditions with the Project
- Other Studies
  - Pedestrian Study
  - Speed Study

The proposed methodology and assumptions for these analyses are outlined in the following sections.

# **Proposed On-Site Transportation**

This component is proposed to include a detailed discussion on the transportation aspects of the project, including site access, vehicle parking, bicycle parking, pedestrian facilities, bicycle facilities, and loading facilities proposed by the project. The City's zoning requirements for vehicle parking, and bicycle parking are also included.

# Proposed Analysis Methodology & Assumptions

Intersection capacity analysis that follows City of Rockville CTR guidelines is proposed to determine the impact of the project. The objective of this analysis is to determine whether the project will generate a detrimental impact to the surrounding transportation network.

This evaluation is based on a technical comparison of three (3) traffic volume scenarios during the weekday AM and PM peak hours:

- 1. Existing Scenario, representing existing 2022 conditions and roadway volumes, detailed below.
- 2. Background Scenario (Future without the Project), representing Existing Scenario with the addition of background traffic growth to 2025 in the area.
- 3. Total Future Scenario (Future with the Project), representing the 2025 Background Scenario with the addition of the site trip generation.

### Study Intersections

Based on the projected future trip generation and the location of site driveways, the following intersections are proposed for analysis:

1. Hurley Avenue and Wootton Parkway

3. Wootton Parkway and Site Driveway

2. Hurley Avenue and Site Driveway

#### Traffic Volumes

New peak period traffic counts will be collected by Gorove Slade at the study intersections listed above. The new counts will be collected on a typical weekday in the Fall of 2022 when school is in session. Consistent with the latest M-NCPPC policy pertaining to traffic counts, the collected counts will be used to establish existing conditions without adjustment factors.

### Analysis Scenarios

### Existing Scenario

Existing conditions for weekday AM and PM peak hours will be established based the Fall 2022 traffic volumes.

## Background Scenario

The "Future Background Scenario without the Project" analysis scenario will be based on the 1) existing conditions' traffic volumes and 2) background traffic growth, outlined in Table 1. No approved pipeline developments generating traffic volumes assigned to the proposed study intersections were found in the vicinity of the proposed development.

Table 1: Growth Rate Data and Applied Annual and Total Background Growth Rates

Road	Average Annual AADT Growth 2011-2020	Annual Growth Rate Assumption	Proposed Total Growth Between 2021 and 2025			
Hurley Avenue	-2.53%	0.10%	0.40%			
Wootton Parkway	-2.19%	0.10%	0.40%			

### **Background Transportation Improvements**

No planned improvements are proposed to be assumed in background and total future conditions.

### Total Future Scenario

The "Future Scenario with the Project" analysis scenario will be based on the 1) background conditions' traffic volumes and 2) the proposed site trip generation.

### Trip Generation Rates

Trip generation for the proposed redevelopment was based on the methodology outlined in the Institute of Transportation Engineers (ITE) Trip Generation, 11<sup>th</sup> Edition and the City of Rockville Comprehensive Transportation Review (2018).

The development features 60 residential units total (31 single family homes and 29 townhomes) and 5,300 square feet of retail. Trip generation rates for "Residential (Low-Rise)" (Land Use 220) were used in trip generation calculations for the townhomes and "Single-Family Detached Housing" (Land Use 210) were used in trip generation calculations for the single-family homes. The retail trip generation was calculated based on trip generation rates for "Strip Retail Plaza (<40k)" (Land Use 822). Existing land use consists of approximately 52,000 square feet of retail space with grocery. Trip generation rates for the "Grocery" (Land Use 850) were used in trip generation calculations for the existing development. The total site-generated vehicular trip results with credits and reductions are summarized in Table 2.

Trip generation for the adjacent community center and pool facility is not part of the proposed development as these trips exist under existing conditions. In order to provide a conservative analysis, the community center/pool trips were added to the background trips to account for the periods of overlap between pool operations and the school year.

As shown in Table 2, the trip generation for the development program will result in an overall reduction in vehicle trips in the area as compared to the existing development. The project will generate -78 net new trips in the morning peak hour (-65 inbound, -13 outbound), -208 net new trips in the afternoon peak hour (-95 inbound, -113 outbound), and -315 net new trips in the Saturday peak hour (-157 inbound, -158 outbound).

**Table 2: Proposed Trip Generation** 

Table 2: Proposed Trip Generalic	/11										
Land Use	Size	AM Peak Hour (veh/hr)		PM Peak Hour (veh/hr)			ADT (veh)	Sat Peak Hour (veh/hr)			
Lanu OSe		In	Out	Total	In	Out	Total	ADT (veil)	In	Out	Total
			Existing	,		•				•	
Retail with Grocery(850)	52,000 sf	119	80	199	245	235	480	5,553	274	264	538
Pass-by Reduction for Grocery (36% for	PM, 26% for SAT)*				-88	-85	-173		-71	-69	-140
Total F	Primary Grocery Trips	119	80	199	157	150	307	5,553	203	195	398
		F	roposed	,		•				•	
Residential (220)	29 units	8	24	32	21	12	33	261	6	6	12
Residential (210)	31 units	7	19	26	21	12	33	344	19	17	36
Retail	5,300 sf	8	5	13	18	17	35	453	18	17	35
Pass-by Reduction for Shopping Center (34% for PM, 26% for SAT)					-6	-6	-12		-5	-4	-9
Sul	ototal Proposed Trips	23	48	71	54	35	89	1,058	38	36	74
N	let New Primary Trips	-65	-13	-78	-95	-113	-208	-3,818	-157	-158	-315

<sup>\*</sup>Based on average pass-by percentages from ITE Trip Generation Handbook, 3rd Edition (PM from LU 850 Supermarket, SAT from LU 820 Shopping Center)

### **Proposed Capacity Analysis**

Capacity Analysis is not required because the project results in a reduction of traffic on the transportation network and does not generate 30 or more trips. Per City Staff request, a supplemental vehicular capacity analyses will be performed using the critical lane analysis technique (CLV method) to determine the volume to capacity ratio and the level of service (LOS). The supplemental analysis will be provided for informational purposes only. At the request of City Staff, we propose to analyze the weekday morning and afternoon commuter peak hours, using the intersection peak hours at all study area intersections. Signal timings for the signalized study intersections will be obtained from MCDOT.

The capacity analysis results will show the volume to capacity ratio (V/C) and the resulting LOS for the overall intersection.

- We will highlight intersections exceeding the threshold for V/C or LOS for Primary Residential Class I (Major Collector).
- We will highlight intersections causing General Traffic Impact (Table 6 in City of Rockville CTR guidelines).
- We will propose mitigation measures at intersections that meet mitigation thresholds as outlined in the CTR guidelines.

# **Special Studies**

## Pedestrian Study

Per the City of Rockville's Staff request, a Pedestrian Study at the Wootton Parkway and Site driveway intersection will be included with the CTR.

The Pedestrian Study will assess existing pedestrian conditions and include a review of the following:

- Pedestrian volumes, to be collected in December of 2022, at this intersection;
- Pedestrian facilities and accommodations at this intersection with an inventory of streetlights along the site frontage;
- Crossing time and distance at this intersection; and,
- · Crash data involving pedestrians at or around this intersection.

# Speed Study

Per the City of Rockville's Staff request, a speed study will be conducted along Wootton Parkway at two (2) locations. Speed data will be collected over 48 hours at the following locations:

- South of Hurley Avenue between the site driveway and Paulsboro Drive.
- North of the Hurley Avenue and Wootton Parkway intersection

# **SCOPING ATTACHMENTS**

- A. Project Location
- B. Site Plan
- C. Study Intersections
- D. Proposed Site Trip Distribution Assumptions

# A. Project Location

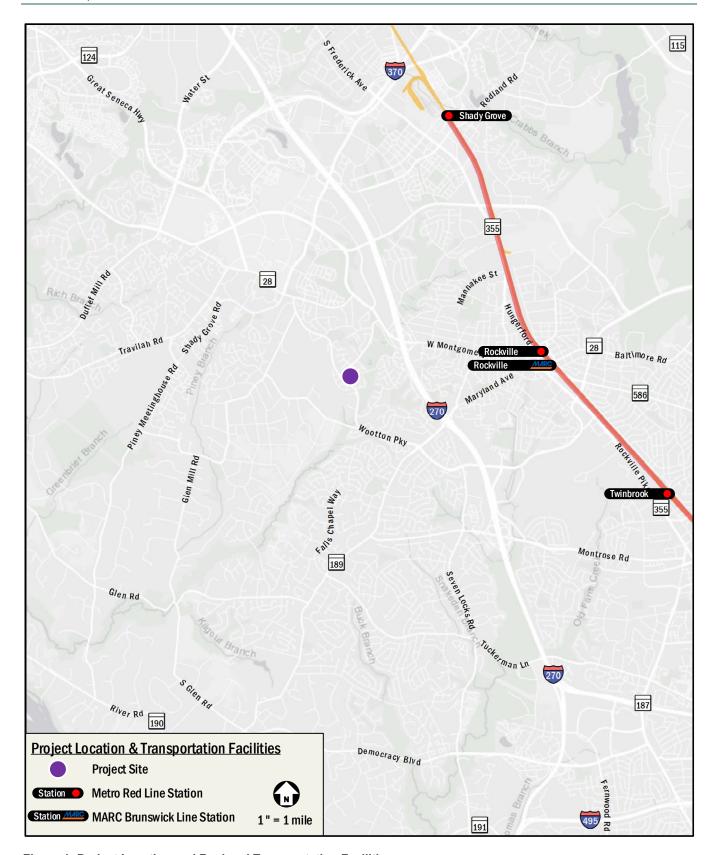


Figure 1: Project Location and Regional Transportation Facilities

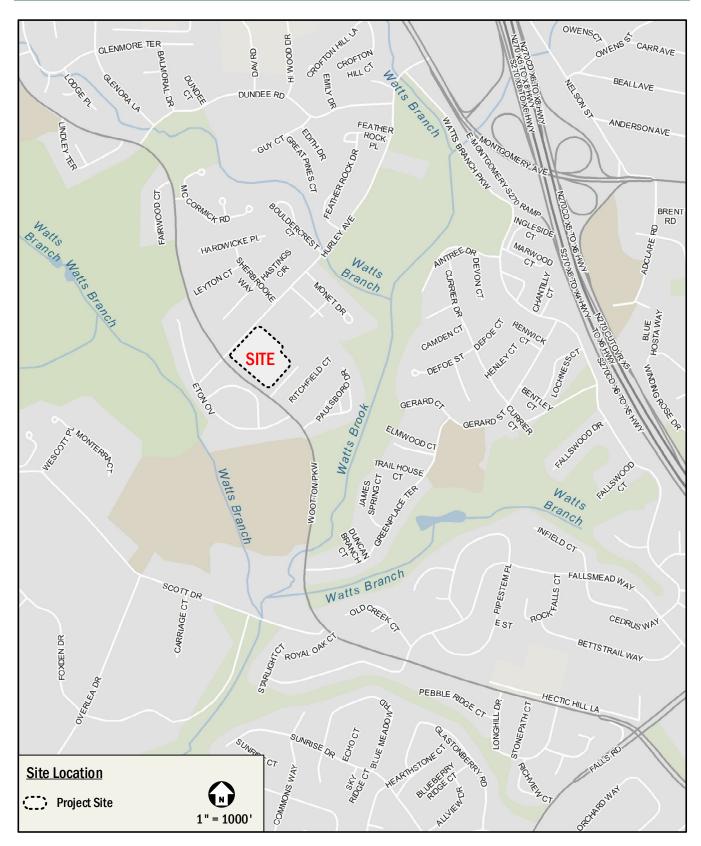


Figure 2: Site Location

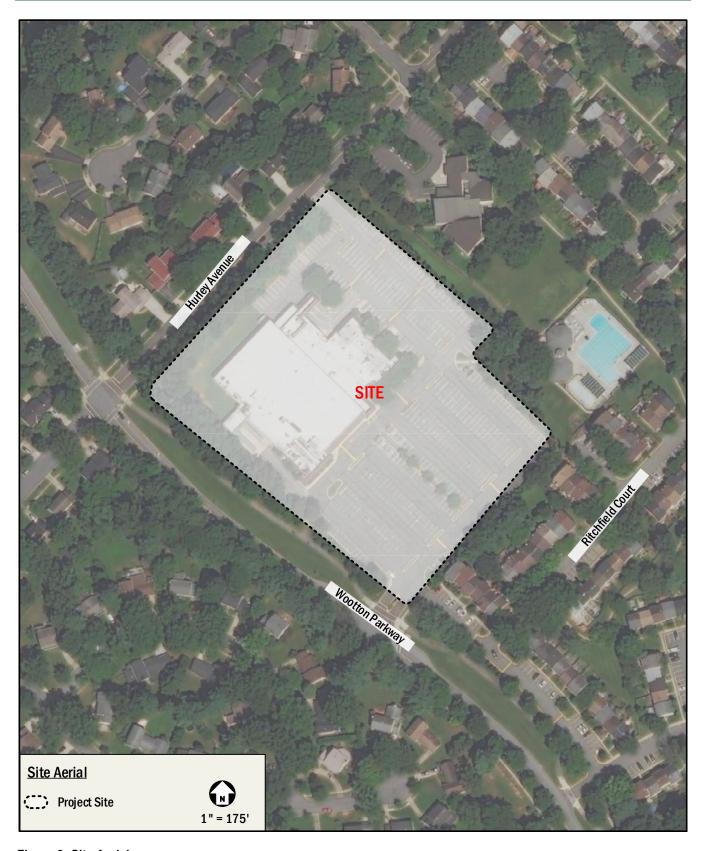


Figure 3: Site Aerial

### B. Site Plan

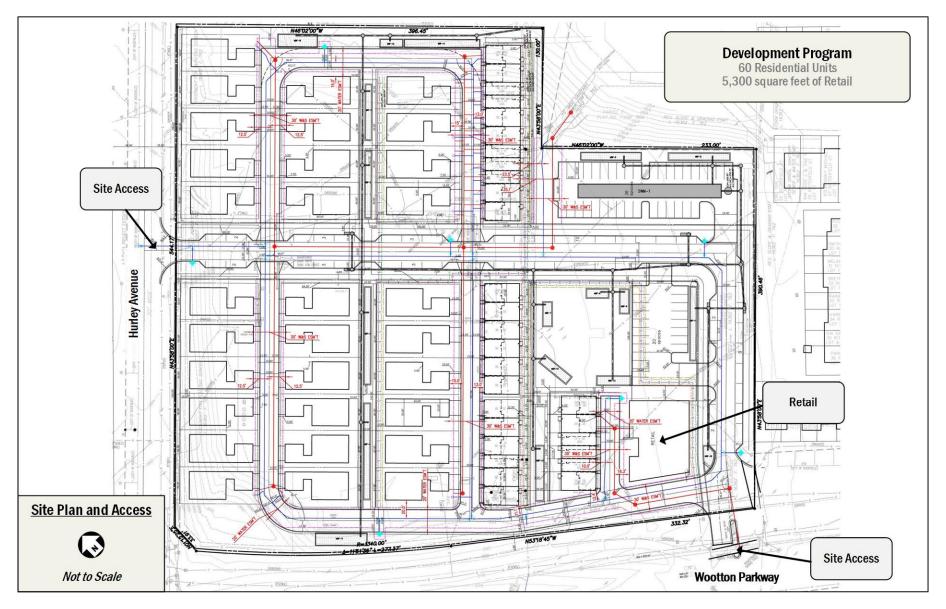


Figure 4: Site Plan and Access

## C. Study Intersections

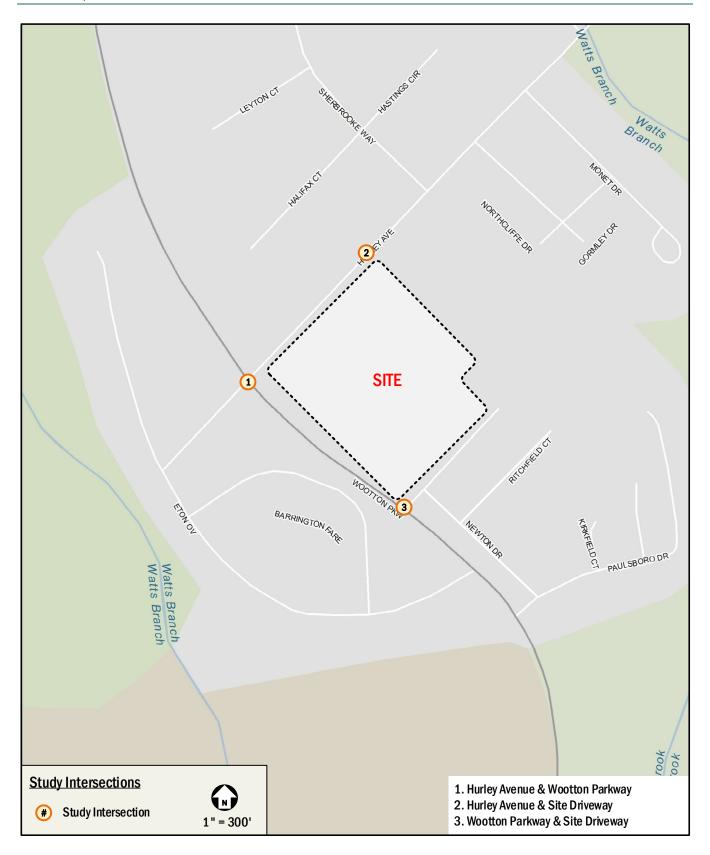


Figure 5: Study Intersections

## D. Proposed Site Trip Distribution Assumptions

#### **Preliminary Site Distributions**

\*Derived from Appendix Table 2-6 of the M-NCPPC LATR Guidelines, City of Rockville Staff feedback, and approved studies.

#### Trip Assignment for Super District (Residential Development Located in Super District 4--Rockville/North Bethesda)

		Direction			
Super District	Wootton Pkwy (to/from the S, SE, SW)	Wootton Pkwy (to/from the N, NE. NW)	Hurley Ave (to/from the NE, E, SE)	Sum	Auto Driver Distribution-District 4 Residential
1 (Bethesda/Chevy Chase)	90%		10%	100%	7.4%
2 (Silver Spring/Takoma Park)	90%		10%	100%	2.3%
3 (Potomac/Darnestown/Travilah)	35%	65%		100%	5.4%
4 (Rockville/North Bethesda)	45%	30%	25%	100%	38.2%
5 (Kensington/Wheaton)	60%		40%	100%	4.1%
6 (White Oak/Fairland/Cloverly)	50%	30%	20%	100%	1.6%
7 (Gaithersburg/Shady Grove)		50%	50%	100%	13.4%
8 (Aspen Hill/Olney)	40%	40%	20%	100%	2.8%
9 (Germantown/Clarksburg)		30%	70%	100%	1.7%
10 (Rural West of I-270)		50%	50%	100%	0.1%
11 (Rural East of I-270)		75%	25%	100%	0.3%
12 (Washington, DC)	75%		25%	100%	11.0%
13 (PG/AA/Cal/St. M/Chls Cos., MD)	85%		15%	100%	4.4%
14 (VA/WV)	40%	40%	20%	100%	6.5%
15 (Frederick Co., MD)		40%	60%	100%	0.3%
16 (Howard Co./Carroll Co., MD)	10%	40%	50%	100%	0.5%

#### **Trip Assignment for Development Case**

		Direction		
		Wootton		Auto Driver
Super District	Wootton Pkwy (to/from the S, SE, SW)	Pkwy (to/from the N, NE. NW)	Hurley Ave (to/from the NE, E, SE)	Distribution-District 4 Residential
1 (Bethesda/Chevy Chase)	6.7%		0.7%	7.4%
2 (Silver Spring/Takoma Park)	2.1%		0.2%	2.3%
3 (Potomac/Darnestown/Travilah)	1.9%	3.5%		5.4%
4 (Rockville/North Bethesda)	17.2%	11.5%	9.6%	38.2%
5 (Kensington/Wheaton)	2.5%		1.6%	4.1%
6 (White Oak/Fairland/Cloverly)	0.8%	0.5%	0.3%	1.6%
7 (Gaithersburg/Shady Grove)		6.7%	6.7%	13.4%
8 (Aspen Hill/Olney)	1.1%	1.1%	0.6%	2.8%
9 (Germantown/Clarksburg)		0.5%	1.2%	1.7%
10 (Rural West of I-270)		0.1%	0.1%	0.1%
11 (Rural East of I-270)		0.2%	0.1%	0.3%
12 (Washington, DC)	8.3%		2.8%	11.0%
13 (PG/AA/Cal/St. M/Chls Cos., MD)	3.7%		0.7%	4.4%
14 (VA/WV)	2.6%	2.6%	1.3%	6.5%
15 (Frederick Co., MD)	·	0.1%	0.2%	0.3%
16 (Howard Co./Carroll Co., MD)	0.1%	0.2%	0.3%	0.5%
Distribution (Sum)	46.8%	27.0%	26.2%	100.0%
Distribution (Assumed)	47%	27%	26%	100.0%

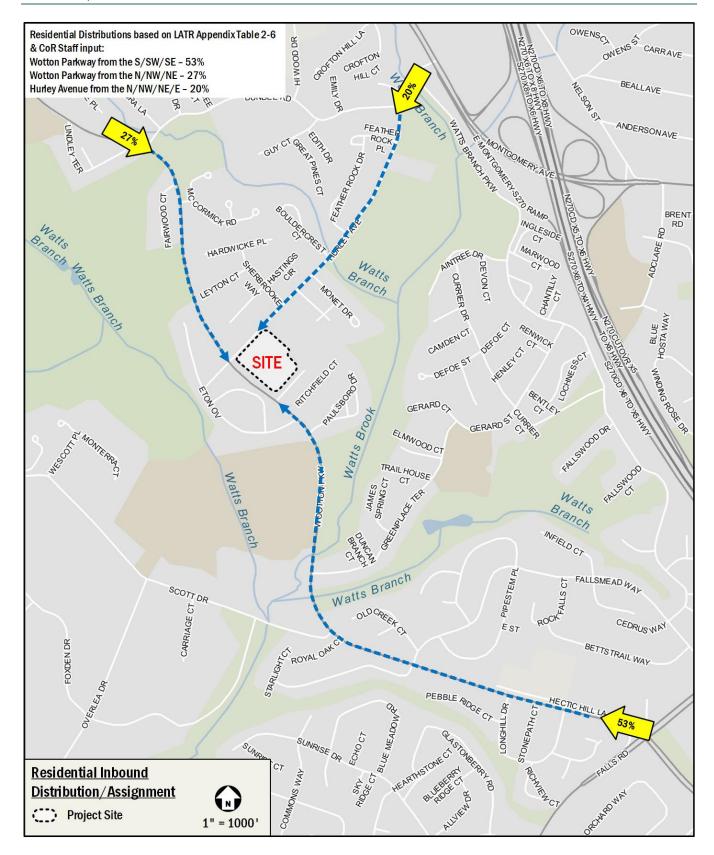


Figure 6: Residential Inbound Trip Distribution/Assignment

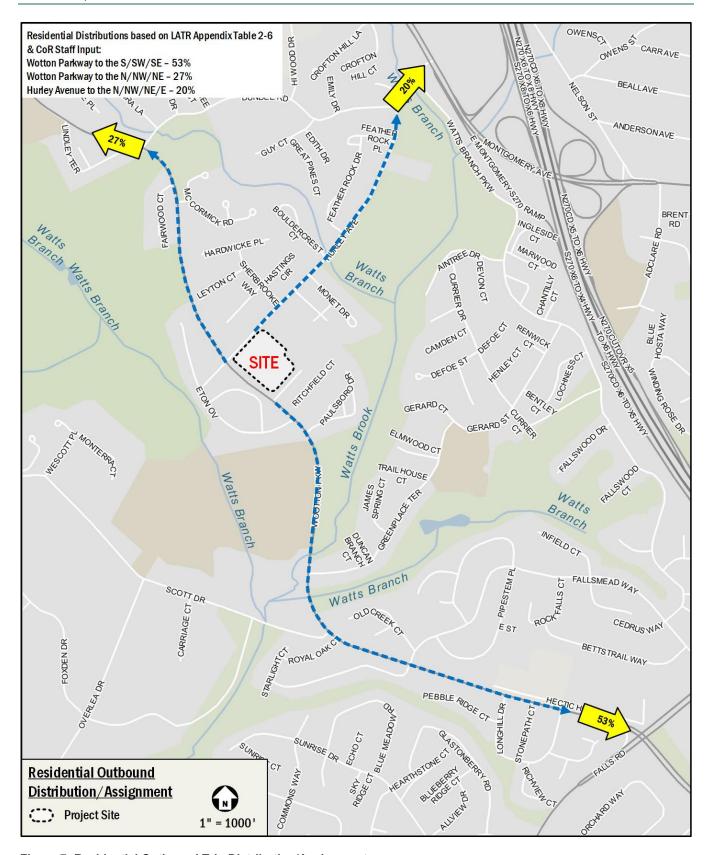
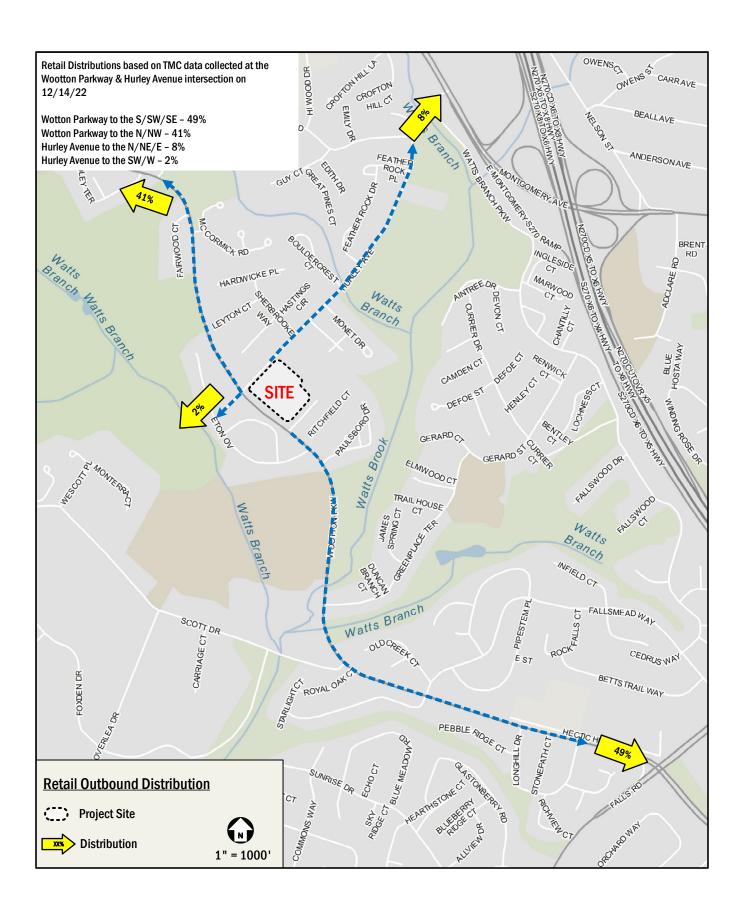
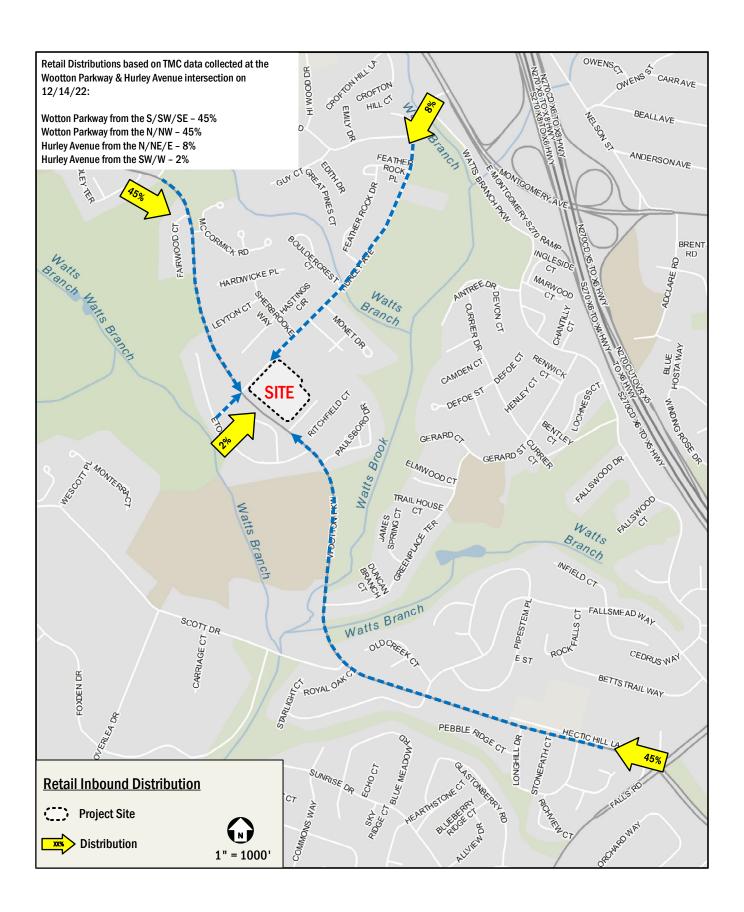


Figure 7: Residential Outbound Trip Distribution/Assignment





# B. Turning Movement Count Data

June 9, 2023 goroveslade.com

Project Name : Rockshire
Project # : 2592-012
Location Montgomery County, MD

Data Source: Gorove/Slade Associates, Inc.

 Analysis Period:
 STUDY\_PERIOD
 06:30 AM
 to
 09:30 AM

 Date of Counts:
 Thursday, December 14, 2023
 Weather:
 Partly Cloudy
 between the country of the country of

 Volumes Displayed as:
 2. System Peak (vehicle)
 to
 08:15 AM

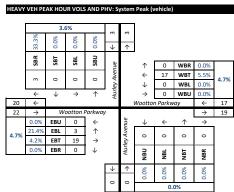
 Intersection Peak Hour (all vehicles):
 07:15 AM
 to
 08:15 AM

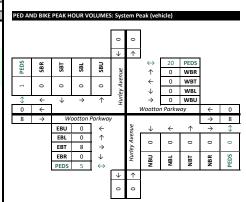
 System Peak Hour (all vehicles):
 07:15 AM
 to
 08:15 AM

 User-Defined Peak Hour:
 07:30 AM
 to
 08:30 AM

	Intersection:	1. Hu	urley A	venue	& Woo	tton Pa	rkway														
ALL	Direction:	21		ıthbou				V	/estbou	nd			No	rthbou	nd				astbour		
VEHICLES	Roadway:	UL		ey Avei		Dode	U		tton Par		Dode	U		ey Ave		Dode	U		tton Par		Rode
06:30 444	to 06:45 AM		Left 5	Thru 0	Right 0	Peds 4	0	Left 0	Thru 6	Right 3	Peds 2	0	Left 1	Thru 1	Right 0	Peds 0	0	Left 1	Thru 25	Right 0	Peds 0
	to 00:43 AM		7	0	1	0	0	0	10	1	1	0	0	1	2	0	0	1	29	0	0
	to 07:15 AM	0	10	0	3	3	0	0	36	4	0	0	0	2	3	1	0	1	80	1	0
07:15 AM	to 07:30 AM	0	28	1	2	6	0	0	68	7	0	0	2	3	1	2	0	2	165	0	0
07:30 AM	to 07:45 AM	0	21	3	4	11	0	0	93	15	0	0	1	0	4	1	0	3	110	1	1
07:45 AM	to 08:00 AM	0	11	0	3	0	0	1	101	24	0	0	2	1	6	2	0	6	109	1	0
	to 08:15 AM		10	1	0	3	0	2	47	7	0	0	1	2	2	0	0	3	73	0	0
	to 08:30 AM		5	1	7	3	0	1	35	11	1	0	0	0	2	1	0	4	81	2	2
	to 08:45 AM to 09:00 AM		11 10	0	13 0	6 1	0	0	72 57	8 10	0	0	1 0	1 0	3 2	1 0	0	6 5	93 70	1	2
	to 09:00 AM		6	0	3	0	0	0	47	6	0	0	0	1	4	0	0	3	71	0	1
	to 09:30 AM		2	2	3	2	0	2	29	5	0	0	0	1	3	0	0	5	43	0	0
	to 09:45 AM	*	_	_	-	-		_		-	-		-	-	-	-	-	-		-	
09:45 AM	to 10:00 AM																				
10:00 AM	to 10:15 AM																				
10:15 AM	to 10:30 AM																				
	to 10:45 AM																				
	to 11:00 AM																				
	to 11:15 AM to 11:30 AM																				
	PEAK HR (VEH.)		84	1				3	65				2	5				4	73		
	to 08:15 AM	0	70	5	9	20	0	3	309	53	0	0	6	6	13	5	0	14	457	2	1
Peak Hou				Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB
Factor (PH	F) 0.85			0.42	0.56	0.68	n/a	0.38	0.76	0.55	0.72	n/a	0.75	0.50	0.54	0.69	n/a	0.58	0.69	0.50	0.71
HEAVY	Direction:			ıthbouı					/estbou					rthbou					astbour		
VEHICLES	Roadway:			ey Avei					tton Par					ey Ave					tton Par		
(FHWA 4+)	Movement:			Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right	
	to 06:45 AM to 07:00 AM		0	0	0		0	0	2	0		0	0	0	0		0	0 1	2 5	0	
	to 07:00 AM		0	0	0		0	0	10	0		0	0	1	0		0	0	13	1	
	to 07:30 AM		0	0	1		0	0	11	0		0	0	0	0		0	1	12	0	
	to 07:45 AM		0	0	1		0	0	4	0		0	0	0	0		0	0	1	0	
07:45 AM	to 08:00 AM	0	0	0	1		0	0	2	0		0	0	0	0		0	2	3	0	
08:00 AM	to 08:15 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	3	0	
08:15 AM	to 08:30 AM	0	0	1	2		0	0	3	2		0	0	0	1		0	3	3	0	
	to 08:45 AM		1	0	3		0	0	2	0		0	0	0	0		0	0	8	0	
	to 09:00 AM		0	0	0		0	0	4	0		0	0	0	0		0	0	3	0	
	to 09:15 AM		0	0	0		0	0	0	1		0	0	0	0		0	1	3	0	
	to 09:30 AM	0	0	0	1		0	0	1	0		0	0	0	0		0	0	2	0	
	to 09:45 AM to 10:00 AM																				
	to 10:00 AM																				
	to 10:30 AM																				
	to 10:45 AM																				
10:45 AM	to 11:00 AM																				
11:00 AM	to 11:15 AM																				
	to 11:30 AM																				
	PEAK HR (VEH.)		3						17				C						22		
neavv	to 08:15 AM		0	0	3	2.59/	0	0	17	0	4.70/	0	0	0	0	0.09/	0	3	19	0	4.79/
	to 08:15 AM Vehicle % (PHV):		0		3 33.3%	3.6%	0 0.0%	0.0%	17 5.5%	0 0.0%	4.7%	0 0.0%	0.0%	0	0 0.0%	0.0%		3 21.4%	19 4.2%	0 0.0%	4.7%
INT. PEA	to 08:15 AM Vehicle % (PHV): K HR (HV ONLY)	0.0% 0	0			3.6%	_	0.0%	17	_	4.7%	_	0	0	_	0.0%		3 21.4%	19 4.2%	_	4.7%
INT. PEA 06:45 AM	to 08:15 AM Vehicle % (PHV):	0.0% 0	0 0.0% 3	0.0%	33.3%		0.0%	0.0%	17 5.5%	0.0%		0.0%	0 0.0%	0 0.0%	0.0%		0.0%	3 21.4% 3 2	19 4.2%	0.0%	4.7%
INT. PEA 06:45 AM Heavy	to 08:15 AM Vehicle % (PHV): K HR (HV ONLY) to 07:45 AM	0.0% 0	0 0.0% 3	0.0%	33.3% 3 30.0%		0.0%	0 0.0%	17 5.5% 28 28	0.0%		0.0%	0 0.0%	0 0.0%	0.0% 0 0.0%		0.0%	3 21.4% 3 2 28.6%	19 4.2% 34 31	0.0% 1 50.0%	
INT. PEA 06:45 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway:	0.0% 0	0 0.0% 3 0 0.0% Sou	0.0% 0 0.0% uthbour	33.3% 3 30.0% and		0.0%	0 0.0% 0 0 0.0% V	17 5.5% 28 28 13.5% Vestbour	0.0% 0 0.0% nd kway		0.0%	0 0.0% 1 0 0.0% No	0 0.0% 1 16.7% rthbou	0.0% 0 0.0% nd nue		0.0%	3 21.4% 3 2 28.6% E	19 4.2% 34 31 8.1% astbour	0.0% 1 50.0%	
INT. PEA 06:45 AM Heavy BICYCLES	to 08:15 AM Vehicle % (PHV): K HR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement:	0.0% 0 0 0.0% 0	0 0.0% 3 0 0.0% Sou Hurle	0.0% 0.0% uthbour ey Aver	33.3% 30.0% and nue Right		0.0% 0 0.0% U	0 0.0% 0 0.0% V Woo Left	17 5.5% 28 28 13.5% Vestbour tton Par	0.0% 0 0.0% nd kway		0.0% 0 0.0% U	0 0.0% 1 0 0.0% No Hurl Left	0 0.0% 1 16.7% rthbou ey Ave	0.0% 0 0.0% nd nue Right		0.0% 0 0.0% U	3 21.4% 2 28.6% E Wood	19 4.2% 34 31 8.1% astbour tton Par	0.0%  1 50.0%  nd  kway  Right	
INT. PEA 06:45 AM Heavy BIGYCLES 06:30 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM	0.0% 0 0 0.0% 0	0   0.0%   3   0   0.0%   Sou   Hurle   Left   0	0.0%  0 0.0%  uthboursey Aver Thru 0	33.3% 30.0% and nue Right 0		0.0% 0 0.0% U	0 0.0% 0 0.0% V Wood Left	17 5.5% 28 28 28 13.5% Vestbour tton Par Thru	0.0% 0 0.0% and kway Right		0.0% 0 0.0% U	0 0.0% 0 0 0.0% No Hur Left	0 0.0% 1 16.7% rthbou ey Ave Thru	0.0%  0 0.0%  nd  nue  Right  0		0.0% 0 0.0% U	3 21.4% 2 28.6% E Wood Left	19 4.2% 34 31 8.1% Fastbour Thru	0.0%  1 50.0%  nd rkway  Right 0	
INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction Roadway: Movement: to 06:45 AM to 07:00 AM	0.0% 0 0 0.0% 0 U L 0 0	0   0.0%   3   0   0.0%   Sou   Hurle   1.00	0.0%  0 0.0%  uthbour ey Aver Thru 0 0	33.3% 3 30.0% and nue Right 0		0.0% 0 0.0% U	0 0.0% 0 0.0% V Woo Left 0	17 5.5% 28 28 13.5% Vestbour tton Par Thru 0	0.0%  0 0.0%  nd  kway  Right  0		0.0% 0 0.0% U	0 0.0% 0 0 0.0% No Hurl Left 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1	0.0%  0 0.0%  nd  nue  Right  0		0.0% 0 0.0% U 0	3 21.4% 2 28.6% E Wood Left 0	19 4.2% 34 31 8.1% castbour tton Par Thru 1 0	0.0%  1 50.0%  nd  rkway  Right  0	
INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM to 07:00 AM to 07:15 AM	0.0% 0 0 0.0% 0 U L 0 0	0 0.0% 3 0 0.0% Sou Hurle Left 0 0	0.0%  0 0.0%  uthbouitey Average Thru  0 0	33.3% 3 30.0% and nue Right 0 0		0.0% 0 0.0% U 0 0	0 0.0% 0 0.0% V Woo Left 0 0	17 5.5% 28 28 13.5% Vestbour tton Par Thru 0 0	0.0%  0 0.0%  nd  kway  Right  0 0		0.0% 0 0.0% U 0 0	0 0.0% 0 0.0% No Hurl Left 0 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1	0.0%  0 0.0%  nd  nue  Right  0 0		0.0% 0 0.0% U 0 0	3 21.4% 2 28.6% E Wood Left 0 0	19 4.2% 34 31 8.1% castbour Thru 1 0	0.0%  1 50.0%  nd  rkway  Right  0 0	
INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM 07:15 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction Roadway: Movement: to 06:45 AM to 07:00 AM	0.0% 0 0.0% 0 U L 0 0 0	0   0.0%   3   0   0.0%   Southurle teft   0   0	0.0%  0 0.0%  uthbour ey Aver Thru 0 0	33.3% 3 30.0% and nue Right 0		0.0% 0 0.0% U	0 0.0% 0 0.0% V Woo Left 0	17 5.5% 28 28 13.5% Vestbour tton Par Thru 0	0.0%  0 0.0%  nd  kway  Right  0		0.0% 0 0.0% U	0 0.0% 0 0 0.0% No Hurl Left 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1	0.0%  0 0.0%  nd  nue  Right  0		0.0% 0 0.0% U 0	3 21.4% 2 28.6% E Wood Left 0	19 4.2% 34 31 8.1% castbour tton Par Thru 1 0	0.0%  1 50.0%  nd  rkway  Right  0	
INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM 07:15 AM 07:30 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM to 07:00 AM to 07:30 AM	0.0% 0 0 0 0.0% 0	0 0.0% 3 0 0.0% Sou Hurle Left 0 0 0	0.0%  0 0.0%  uthboutey Aver Thru  0 0 0	33.3% 30.0% and nue Right 0 0		0.0% 0 0.0% U 0 0 0	0 0.0% 0 0.0% V Woo Left 0 0	17 5.5% 28 28 13.5% Vestbountton Par Thru 0 0 1	0.0%  0 0.0%  nd  kway  Right  0 0 0		0.0% 0 0.0% U 0 0 0	0 0.0% 1 0 0.0% No Hurl Left 0 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1 0	0.0%  0 0.0%  nd  nue  Right  0 0  0		0.0% 0 0.0% U 0 0 0	3 21.4% 2 28.6% E Wood Left 0 0	19 4.2% 34 31 8.1% Eastbour Thru 1 0 0	0.0%  1 50.0%  nd  rkway  Right  0 0 0	
INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM 07:15 AM 07:30 AM 07:45 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM to 07:00 AM to 07:15 AM to 07:30 AM to 07:30 AM	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.0% 3 0 0.0% Sou Hurle 0 0 0 0	0.0%  0 0.0%  uthbour  ey Aver  Thru  0 0  0 0  0	33.3% 30.0% and nue Right 0 0 0		0.0% 0 0.0% U 0 0 0	0 0.0% 0 0.0% V Woo Left 0 0 0	17 5.5% 28 28 28 13.5% Vestbour tton Par Thru 0 0 1 0	0.0%  0 0.0%  nd  kway  Right  0 0 0		0.0% 0 0.0% U 0 0 0	0 0.0% 1 0 0.0% No Hurl Left 0 0 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1 0 0	0.0%  0 0.0%  nd nue  Right 0 0 0		0.0% 0 0.0% U 0 0 0	3 21.4% 2 28.6% E Wood Left 0 0 0	19 4.2% 34 31 8.1% castbour tton Par Thru 1 0 0 0 2	0.0%  1 50.0%  nd  rkway  Right  0 0 0	
06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM 07:15 AM 07:30 AM 07:45 AM 08:00 AM	to 08:15 AM Vehicle % (PHV): KHR (HV ONLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM to 07:00 AM to 07:15 AM to 07:30 AM to 07:45 AM to 08:15 AM to 08:15 AM	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.0% 3 0 0.0% Sou Hurle Left 0 0 0 0 0	0.0%  0 0.0%  uthbour  thru  0 0 0 0 0 0 0 0	33.3% 30.0% and nue Right 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0	0 0.0% 0 0.0% V Woo Left 0 0 0 0	17 5.5% 28 28 13.5% Vestbour tton Par Thru 0 0 1 0 0	0.0%  0 0.0%  nd  kway  Right  0 0 0 0		0.0% 0 0.0% U 0 0 0 0	0 0.0% 1 0 0.0% No Hurl Left 0 0 0 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1 0 0 0	0.0%  0 0.0%  nd  nue  Right  0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0	3 21.4% 2 28.6% E Wood Left 0 0 0 0	19 4.2% 34 31 8.1% castbour tton Par Thru 1 0 0 0 2 6	0.0%  1 50.0%  nd  rkway  Right  0 0 0 0	
INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM 07:15 AM 07:45 AM 08:15 AM 08:15 AM	to 08:15 AM Vehicle % (PHV): KHR (HV OMLY) to 07:45 AM Vehicle % (PHV): Direction: Raadway: Movement: to 06:45 AM to 07:45 AM to 07:45 AM to 07:45 AM to 08:30 AM to 08:30 AM to 08:35 AM to 08:45 AM	0.0% 0 0 0.0% 0 0 0.0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0%  0	33.3%  3 30.0%  nd  nue  Right  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.0% 0 0.0% V Woo Left 0 0 0 0 0	17 5.5% 28 28 13.5% Vestbour Thru 0 0 1 0 0 0 0 0	0.0%  0 0.0%  nd kway  Right 0 0 0 0 1		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0	0 0.0% 1 0 0.0% No Huri Left 0 0 0 0 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 1 0 0 0 0 0 0	0.0%  0 0.0%  nud  Right  0 0  0 0  0 0  0 0  0 0  0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0	3 21.4% 2 28.6% Wood Left 0 0 0 0 0 0 0	19 4.2% 34 31 8.1% Eastbour Thru 1 0 0 0 2 6 0 0	0.0%  1 50.0%  od  rkway  Right  0 0 0 0 0 0 0 0	
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INT. PEA 06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:00 AM 07:45 AM 07:30 AM 07:45 AM 08:30 AM 08:15 AM 09:00 AM 09:15 AM 10:00 AM 10:15 AM 10:00 AM	to 08:15 AM Vehicle % (PHV): KHR (HV OMLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM to 07:00 AM to 07:15 AM to 07:30 AM to 07:45 AM to 08:30 AM to 08:30 AM to 08:30 AM to 09:00 AM to 09:15 AM to 10:00 AM to 10:15 AM to 10:00 AM to 10:30 AM	0.0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0.0% 3 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	33.3%  3 30.0%  and nue  Right  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0 0 0 0 0	0 0.0% 0 0 0 0.0% V Woo 0 0 0 0 0 0 0 0	17 5.5% 28 28 28 13.5% Vestbount 0 0 0 0 0 0 0 0 1 1	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		0.0% 0 0.0% U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0.0% 3 3 0 0.0% 1 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 0 0 0 0 0 0 0	0.0%  0 0.0% nue Right 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 21.4% 2 2 2.82.6% Wood 0 0 0 0 0 0 0 0 0 0	19 4.2% 34 8.1% 8.1% 1 8.1% 0 0 0 0 0 0 0 1 1	0.0%  1 50.0%  dd	
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06:45 AM Heavy BICYCLES 06:30 AM 06:45 AM 07:45 AM 07:45 AM 07:45 AM 07:45 AM 08:30 AM 08:15 AM 09:15 AM 09:15 AM 09:15 AM 10:00 AM 10:00 AM 10:00 AM 10:15 AM 10:30 AM 10:31 AM 10:31 AM 10:31 AM 10:31 AM 10:31 AM 10:31 AM	to 08:15 AM Vehicle % (PHV): KHR (HV OMLY) to 07:45 AM Vehicle % (PHV): Direction: Roadway: Movement: to 06:45 AM to 07:00 AM to 07:15 AM to 07:30 AM to 07:45 AM to 08:30 AM to 08:30 AM to 08:30 AM to 09:00 AM to 09:15 AM to 10:00 AM to 10:15 AM to 10:00 AM to 10:30 AM	0.0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0.0% 3 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	33.3%  3 30.0%  and nue  Right  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0 0 0 0 0	0 0.0% 1 0 0 0.0% V Woo 0 0 0 0 0 0 0 0 0	17 5.5% 28 28 28 13.5% Vestbount 0 0 0 0 0 0 0 0 1 1	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		0.0% 0 0.0% U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0.0% 3 3 0 0.0% 1 0	0 0.0% 1 16.7% rthbou ey Ave Thru 0 0 0 0 0 0 0 0 0	0.0%  0 0.0% nue Right 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 21.4% 2 2 2.8.6% E Woo' 0 0 0 0 0 0 0 0 0 0	19 4.2% 34 8.1% 8.1% 1 8.1% 0 0 0 0 0 0 0 1 1	0.0%  1 50.0%  dd	

		0.	68		84	73					
	0.56	0.42	0.63	n/a	- 80	4					
	0.	0.	0.	u	$\downarrow$	1					
	SBR	SBT	SBL	SBU	ne		<b>1</b>	53	WBR	0.55	
	6	- 2	20		Hurley Avenue		<b>←</b>	309	WBT	0.76	0
	6	Li	7	0	ey,		$\downarrow$	3	WBL	0.38	U.
	+	<b>\</b>	$\rightarrow$	1	Huri		$\rightarrow$	0	WBU	n/a	
324	+						Wootto	n Parkw	ay	$\leftarrow$	3
473	$\rightarrow$	W	ootton l	Parkwa	У					$\rightarrow$	5
	n/a	EBU	0	<b>←</b>		anu	$\downarrow$	←	1	$\rightarrow$	
0.71	0.58	EBL	14	1		Hurley Avenue	0	9	9	13	
0.71	0.69	EBT	457	$\rightarrow$		ley.				1	
	0.50	EBR	2	$\downarrow$		Hur	NBU	NBL	NBT	NBR	
					<b>V</b>	1	n/a	0.75	0.50	0.54	
					10	25			69		





DATA COLLECTION NOTES:

Project Name : Rockshire Project # : 2592-012 Analysis Period: STUDY\_PERIOD

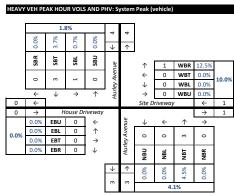
06:30 AM to 09:30 AM

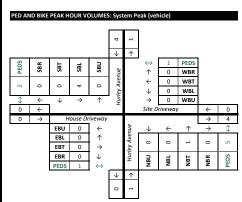
Volumes Displayed as: 2. System Peak (vehicle) 

Location Montgomery County, MD Data Source: Gorove/Slade Associates, Inc. Date of Counts: Thursday, December 14, 2023 Weather: Partly Cloudy

	Intersection:	1.			e & Site	Drivew	ay/Hou															ı
ALL	Direction: Roadway:			outhbou rley Ave					Vestbou e Drive					ley Ave					astbour			ı
VEHICLES	Movement:	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	ı
06:30 AM	to 06:45 AM	0	0	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	ı
	to 07:00 AM	0	1	7	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0	ı
	to 07:15 AM	0	0	13	0	0	0	0	0	0	1	0	0	5	1	0	0	0	0	0	1	ı
	to 07:30 AM to 07:45 AM	0	23 102	31 26	0	0	0	0	0	0 4	1	0	0	11 15	1	0	0	0	0	0	0	ı
	to 08:00 AM	0	102	14	0	1	0	1	0	2	1	0	0	29	1	0	0	0	0	0	0	ı
	to 08:15 AM	0	1	11	0	0	0	0	0	2	0	0	0	12	1	0	0	0	0	0	1	ı
08:15 AM	to 08:30 AM	0	2	13	0	1	0	0	0	1	4	0	0	14	0	0	0	1	0	0	2	ı
	to 08:45 AM	0	1	21	0	0	0	0	0	0	1	0	0	13	1	0	0	0	0	0	0	ı
	to 09:00 AM	0	0	12	0	0	0	0	0	2	1	0	0	16	0	0	0	0	0	0	3	ı
	to 09:15 AM to 09:30 AM	0	0	8 7	0	0	0	0	0	1	2	0	0	10 11	0	0	0	0	0	0	0	ı
	to 09:45 AM	"	2	,	U	U	0	U	U	U	U	U	U	11	U	U	0	U	U	U	4	ı
	to 10:00 AM																					ı
10:00 AM	to 10:15 AM																					ı
	to 10:30 AM																					ı
	to 10:45 AM																					ı
	to 11:00 AM to 11:15 AM																					l
	to 11:30 AM																					l
	PEAK HR (VEH.)		2	18		1			10		-		7	'3		1			0		2	ı
	to 08:15 AM	0	136	82	0	1	0	2	0	8	5	0	0	67	6	1	0	0	0	0	2	ı
Peak Hou		U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB	ı
Factor (PHI HEAVY	F) 0.50  Direction:	n/a	0.33	0.66 outhbou	n/a	0.43	n/a	0.50	n/a Vestbou	0.50	0.50	n/a	n/a	0.58 orthbou	0.50	0.61	n/a	n/a	n/a astbour	n/a	n/a	ı
VEHICLES	Roadway:			rley Ave					e Drive					ley Ave					se Drive			ł
(FHWA 4+)	Movement:	U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		ı
06:30 AM	to 06:45 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ì
06:45 AM	to 07:00 AM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	to 07:15 AM	0	0	0	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	to 07:30 AM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	to 07:45 AM to 08:00 AM	0	0	1	0		0	0	0	1		0	0	1	0		0	0	0	0		ı
	to 08:15 AM	0	0	0	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
08:15 AM	to 08:30 AM	0	0	3	0		0	0	0	0		0	0	4	0		0	0	0	0		ı
	to 08:45 AM	0	0	4	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	to 09:00 AM	0	0	1	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 09:15 AM	0	0	0	0		0	0	0	0		0	0	2	0		0	0	0	0		ı
	to 09:30 AM to 09:45 AM	0	U	1	0		U	0	0	0		U	0	0	0		0	0	0	0		ı
	to 10:00 AM																					ı
	to 10:15 AM																					ı
10:15 AM	to 10:30 AM																					ı
	to 10:45 AM																					ı
	to 11:00 AM																					ı
	to 11:15 AM to 11:30 AM																					ı
	PEAK HR (VEH.)			4					1					3					0			ı
	to 08:15 AM	0	1	3	0		0	0	0	1	1	0	0	3	0		0	0	0	0		ı
Heavy	Vehicle % (PHV):	0.0%	0.7%	3.7%	0.0%	1.8%	0.0%	0.0%	0.0%	12.5%	10.0%	0.0%	0.0%	4.5%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	ı
	K HR (HV ONLY)			8	1 .				1					7				_	0			ı
	to 08:45 AM Vehicle % (PHV):	0.0%	0 0%	13.6%	0	11.0%	0.0%	0.0%	0 0%	20.0%	16.7%	0.0%	0	7 10.3%	0.0%	9.9%	0.0%	0.0%	0.0%	0.0%	0.0%	ı
ricavy	Direction:	0.0%		outhbou		11.0%	0.076		Vestbou		10.776	0.076		orthbou		3.376	0.076		astbour		0.0%	ı
BICYCLES	Roadway:			rley Ave					e Drive					ley Ave					se Drive			ı
	Movement:	U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		ı
	to 06:45 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 07:00 AM to 07:15 AM	0	0	0	0		0	0	0	0		0	0	1 0	0		0	0	0	0		ı
	to 07:15 AW	0	0	0	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	to 07:30 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 08:00 AM	0	3	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
08:00 AM	to 08:15 AM	0	1	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 08:30 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 08:45 AM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	to 09:00 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 09:15 AM to 09:30 AM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
	to 09:30 AM	ľ	J	J	J		ľ	J	J	J		ľ	J	J	Ü		ľ	J	Ü	Ü		ı
	to 10:00 AM																l					ı
10:00 AM	to 10:15 AM																l					ı
	to 10:30 AM																l					ı
	to 10:45 AM						l					l					ĺ					ĺ
	to 11:00 AM																l					ı
	to 11:15 AM to 11:30 AM																l					ı
	PEAK HR (VEH.)			4					0					1					0			ı
	to 08:15 AM	0	4	0	0		0	0	0	0		0	0	1	0		0	0	0	0		ı
	PEAK HR (BIKES)			5					0					1					0			ı
	to 08:45 AM	0	4	1	0		0	0	0	0		0	0	1	0		0	0	0	0		1

		0.	43		218	7.5					
	e/u	99'0	0.33	n/a	← 5:	۲   ←					
	SBR	SBT	SBL	SBU	nue		<b>↑</b>	8	WBR	0.50	Γ
	0	82	136	0	Hurley Avenue		$\leftarrow$	0	WBT	n/a	0
	)	8	ĒΤ	0	ley,		$\downarrow$	2	WBL	0.50	U
	<b>←</b>	$\downarrow$	$\rightarrow$	1	Hur		$\rightarrow$	0	WBU	n/a	
0	+						Site D	riveway	/	+	
0	$\rightarrow$	Н	ouse Di	riveway						$\rightarrow$	1
	n/a	EBU	0	<b>←</b>		Hurley Avenue	$\downarrow$	<b>←</b>	1	$\rightarrow$	
n/a	n/a	EBL	0	1		4ve.	0	0	67	9	
11/ a	n/a	EBT	0	$\rightarrow$		ey,	)	)	9	•	
	n/a	EBR	0	_ ↓		Hur	NBU	NBL	NBT	NBR	
							ž	z	Z	z	
					$\downarrow$	<b>1</b>	n/a	n/a	0.58	0.50	





DATA COLLECTION NOTES:

Volumes Displayed as: 2. System Peak (vehicle)

#### Gorove/Slade Associates - Multimodal Turning Movement Count Report

Project Name: Rockshire Project # : 2592-012 Location Montgomery County, MD

10:30 AM to 10:45 AM

10:45 AM to 11:00 AM

10:00 AM to 10:15 AM

10:15 AM to 10:30 AM 10:30 AM to 10:45 AM

INT. PEAK HR (BIKES)

Analysis Period: STUDY\_PERIOD Date of Counts: Thursday, December 14, 2023

06:30 AM to 09:30 AM

Ω

0 0 8 0

 
 Intersection Peak Hour (all vehicles):
 07:15 AM
 to
 08:15 AM

 System Peak Hour (all vehicles):
 07:15 AM
 to
 08:15 AM
 User-Defined Peak Hour: 07:30 AM to 08:30 AM

Weather: Partly Cloudy Data Source: Gorove/Slade Associates, Inc. Intersection: 1. Site Driveway/ & Wootton Parkway Direction: Southbound Westbound Eastbound ALL VEHICLES **Wootton Parkway** Left Thru Right Peds Left Thru Right Peds Left Thru Right Peds Left Thru Right Peds Movement 06:30 AM to 06:45 AM 06:45 AM to 07:00 AM 0 10 0 0 0 0 0 40 07:00 AM to 07:15 AM 0 2 0 42 0 0 0 0 0 0 91 0 07:15 AM to 07:30 AM 18 72 177 2 0 0 25 0 0 0 0 0 0 07:30 AM to 07:45 AM

71 13 13 91 60 126 07:45 AM to 08:00 AM 0 12 0 1 3 0 0 125 1 9 0 0 0 0 0 0 145 0 08:00 AM to 08:15 AM 0 0 87 0 0 55 3 0 0 0 0 1 0 0 08:15 AM to 08:30 AM 87 08:30 AM to 08:45 AM 0 1 0 0 6 0 0 77 0 0 0 0 0 0 0 95 0 08:45 AM to 09:00 AM 70 0 0 2 0 83 0

09:00 AM to 09:15 AM 0 0 6 0 0 50 2 0 0 0 0 0 0 09:15 AM to 09:30 AM 0 0 0 2 0 39 0 3 0 0 0 0 0 0 43 09:30 AM to 09:45 AM 09:45 AM to 10:00 AM 10:00 AM to 10:15 AM 10:15 AM to 10:30 AM

11:00 AM to 11:15 AM 11:15 AM to 11:30 AM SYSTEM PEAK HR (VEH.) 119 354 541 24 97 0 0 102 0 17 U Left Thru Right 0 0 343 11 0 0 0 0 0 6 535 0 07:15 AM to 08:15 AM Overall 0.83 Left n/a Thru 0.69 WB 0.70 Left n/a Thru Right **NB** n/a n/a **n/a** Left Thru Right 0.75 0.76 n/a Peak Hour Thru Right n/a 0.33 SB Right 0.69 Factor (PHF)

HEAVT	Direction:		30	utnbou	na		V	estbou	nu		IV	טטמוזוזוט	ina			astbour	IU	į
VEHICLES	Roadway:		Site	e Drivev	vay		Woot	ton Par	kway						Woo	tton Par	kway	
(FHWA 4+)	Movement:	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	į
06:30 AM	to 06:45 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	
06:45 AM	to 07:00 AM	0	0	0	0	0	0	3	0	0	0	0	0	0	0	5	0	
07:00 AM	to 07:15 AM	0	0	0	0	0	0	11	0	0	0	0	0	0	0	13	0	
07:15 AM	to 07:30 AM	0	0	0	0	0	0	10	0	0	0	0	0	0	0	12	0	
07:30 AM	to 07:45 AM	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	
07:45 AM	to 08:00 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	
08:00 AM	to 08:15 AM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0	
08:15 AM	to 08:30 AM	0	0	0	1	0	0	4	0	0	0	0	0	0	2	2	0	
08:30 AM	to 08:45 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	7	0	
08:45 AM	to 09:00 AM	0	0	0	0	0	0	4	0	0	0	0	0	0	0	3	0	
09:00 AM	to 09:15 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	4	0	
09:15 AM	to 09:30 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	
09:30 AM	to 09:45 AM																	
09:45 AM	to 10:00 AM	l								1								

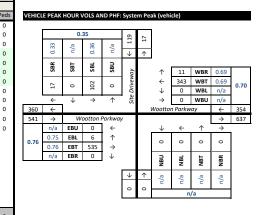
10:45 AM to 11:00 AM 11:00 AM to 11:15 AM 11:15 AM to 11:30 AM SYSTEM PEAK HR (VEH.) 0 0 16 2 0.0% 0.0% 4.7% 18.2% **5.1%** 0 0 0 0 0 0.0% 0.0% 0.0% 0.0% **0.0%** 0 20 0 0.0% 3.7% 0.0% **3.7%** 0 0 0 07:15 AM to 08:15 AM Heavy Vehicle % (PHV 0.0% | 0.0% | 0.0% | 0.0% | 0.0% 
 28

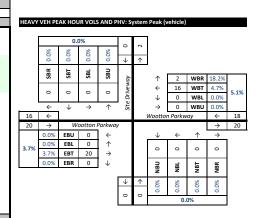
 0
 0
 28
 0

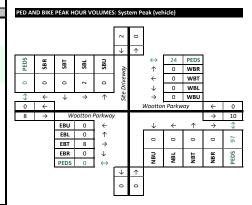
 0.0%
 0.0%
 13.0%
 0.0%
 12.79
 INT. PEAK HR (HV ONLY) 31 0 0 0 0 0.0% 0.0% 0.0% 0.0% 0 0 0 0 0 0.0% 0.0% 0.0% 0.0% **0.0**% 0 31 0 0.0% 7.1% 0.0% **7.0%** 06:45 AM to 07:45 AM Heavy Vehicle % (PHV):

BICYCLES	Roadway:		C:A	e Drivev		_		14/	tton Pa							14/	tton Pa	danner.	_
BIGI CLLS												1.6	TI	D'ala					
	Movement:	U	Left	Thru	Right		U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	
06:30 AM	to 06:45 AM	0	0	0	0		0	0	1	0	0	0	0	0	0	0	0	0	
06:45 AM	to 07:00 AM	0	0	0	0		0	0	0	0	0	0	0	0	0	0	1	0	
07:00 AM	to 07:15 AM	0	0	0	0		0	0	1	0	0	0	0	0	0	0	0	0	
07:15 AM	to 07:30 AM	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	
07:30 AM	l to 07:45 AM	0	0	0	0		0	0	0	0	0	0	0	0	0	0	2	0	
07:45 AM	to 08:00 AM	0	1	0	0		0	0	0	0	0	0	0	0	0	0	5	0	
08:00 AM	to 08:15 AM	0	1	0	0		0	0	0	0	0	0	0	0	0	0	1	0	
08:15 AM	to 08:30 AM	0	0	0	0		0	0	1	0	0	0	0	0	0	0	0	0	
08:30 AM	to 08:45 AM	0	0	0	0		0	0	1	0	0	0	0	0	0	0	0	0	
08:45 AM	to 09:00 AM	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	
09:00 AM	to 09:15 AM	0	0	0	0		0	0	2	0	0	0	0	0	0	0	0	0	
09:15 AM	to 09:30 AM	0	0	0	0		0	0	1	0	0	0	0	0	0	0	1	0	
09:30 AM	to 09:45 AM																		
09:45 AM	to 10:00 AM																		
10:00 AM	to 10:15 AM																		
10:15 AM	to 10:30 AM																		
10:30 AM	to 10:45 AM																		
10:45 AM	to 11:00 AM																		
11:00 AM	to 11:15 AM																		
11:15 AM	to 11:30 AM																		
SYSTEM	1 PEAK HR (VEH.)			2					0				0				8		
07:15 AM	to 08:15 AM	0	2	0	0		0	0	0	0	0	0	0	0	0	0	8	0	

DATA COLLECTION NOTES :			







Project Name : Rockshire
Project # : 2592-012
Location Montgomery County, MD
Data Source: Gorove/Slade Associates, Inc.

 Analysis Period:
 STUDY\_PERIOD
 04:00 PM
 to
 07:00 PM

 Date of Counts:
 Thursday, December 14, 2023
 Weather:
 Partly Cloudy
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 Volumes Displayed as: 2. System Peak (vehicle)

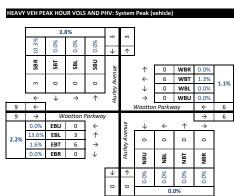
 Intersection Peak Hour (all vehicles):
 05:00 PM
 to
 06:00 PM

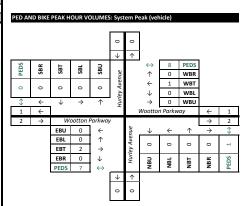
 System Peak Hour (all vehicles):
 05:00 PM
 to
 06:00 PM

 User-Defined Peak Hour:
 05:00 PM
 to
 06:00 PM

	Intersection:	1.	Hurley	Avenue	e & Woo	otton Pa	rkway														
ALL	Direction: Roadway:			outhbou rley Ave					estbou					rthbou ley Ave					astbour		
VEHICLES	Movement:	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds
04:00 PM	to 04:15 PM	0	4	1	5	10	0	3	76	9	0	0	2	2	2	0	0	2	49	5	0
	to 04:30 PM	0	9	2	8	0	0	3	64	7	1	0	1	2	0	0	0	5	57	1	0
	to 04:45 PM to 05:00 PM	0	10 10	0 2	2 5	2	0	4	118 73	15 11	3	0	0	1 2	1	1	0	6 3	48 59	1	0
	to 05:00 PM	0	13	3	10	1	0	3	119	23	0	0	0	0	1	1	0	3	72	0	0
	to 05:30 PM	0	7	1	6	1	0	2	117	12	0	0	1	3	1	6	0	3	88	3	0
05:30 PM	to 05:45 PM	0	14	2	10	5	0	3	119	13	1	0	0	0	4	0	0	8	144	2	0
	to 06:00 PM	0	7	2	3	1	0	7	103	13	0	0	4	1	2	0	0	8	75	1	0
	to 06:15 PM to 06:30 PM	0	9	1	5	2	0	2	78 74	9	1	0	0	1	2	1 2	0	10 4	70	3	0
	to 06:30 PM	0	10 8	2	8 6	1	0	1	74 47	11 8	0	0	3	3	1	0	0	7	91 63	2	1 0
	to 07:00 PM	0	4	3	5	2	0	1	52	8	0	0	0	0	0	0	0	6	38	1	0
	to 07:15 PM																				
07:15 PM	to 07:30 PM																				
	to 07:45 PM																				
	to 08:00 PM																				
	to 08:15 PM to 08:30 PM																				
	to 08:45 PM																				
	to 09:00 PM																				
	PEAK HR (VEH.)			78		8			34		1		1			7			07		0
	to 06:00 PM	0	41	8	29		0	15	458	61		0	5	4	8		0	22	379	6	
Peak Hour Factor (PHI		U n/a	Left 0.73	Thru 0.67	Right 0.73	SB 0.75	U n/a	Left 0.54	Thru 0.96	Right 0.66	WB 0.92	U n/a	Left 0.31	Thru 0.33	Right 0.50	NB 0.61	U n/a	Left 0.69	Thru 0.66	Right 0.50	EB 0.66
HEAVY	Direction:	11/4		outhbou		0.75	11/4		Vestbou		0.72	11/4		orthbou		0.01	11/4		astbour		0.00
VEHICLES	Roadway:			rley Ave					tton Par					ley Ave					tton Par		
(FHWA 4+)	Movement:	U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right	
	to 04:15 PM	0	0	0	1		0	0	7	1		0	0	0	1		0	1	2	0	
	to 04:30 PM	0	0	0	1		0	0	1	0		0	0	0	0		0	0	2	0	
	to 04:45 PM to 05:00 PM	0	0	0	1 0		0	0	3 2	0		0	0	0	0		0	1	1 2	0	
	to 05:00 PM	0	0	0	1		0	0	2	0		0	0	0	0		0	1	1	0	
	to 05:30 PM	0	0	0	0		0	0	2	0		0	0	0	0		0	0	2	0	
05:30 PM	to 05:45 PM	0	0	0	1		0	0	1	0		0	0	0	0		0	1	2	0	
	to 06:00 PM	0	0	0	1		0	0	1	0		0	0	0	0		0	1	1	0	
	to 06:15 PM	0	0	0	0 1		0	0	1	0		0	0	1	0		0	0	0	1	
	to 06:30 PM to 06:45 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	1	2	0	
	to 07:00 PM	0	0	0	1		0	0	2	0		0	0	0	0		0	0	2	0	
	to 07:15 PM																				
07:15 PM	to 07:30 PM																				
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	to 08:00 PM																				
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	to 08:45 PM																				
	to 09:00 PM																				
	PEAK HR (VEH.)			3					6				(	1							
	to 06:00 PM	0	0											,					9		
	Vehicle % (PHV):		_	0	3		0	0	6	0		0	0	0	0		0	3	6	0	
	K HR (HV ONLY)	0.0%	0.0%	0.0%	-	3.8%	0	0.0%	1.3%	-	1.1%			0	_	0.0%	_	3 13.6%	6	-	2.2%
	to 05:00 PM			0.0%	10.3%	3.8%	0.0%	0.0%	1.3%	0.0%	1.1%	0.0%	0 0.0%	0 0.0%	0.0%	0.0%	0.0%	3 13.6%	6 1.6%	0.0%	2.2%
	to 05:00 PM Vehicle % (PHV):	0.0%	0	-	10.3%		_	0.0%	1.3%	-	3.6%		0 0.0%	0	0.0%		_	3 13.6% 1	6	0.0%	2.2%
		0	0 0.0%	3 0	3 15.0%		0.0%	0.0%	1.3%	0.0%		0.0%	0 0.0%	0 0.0% 1 0	0.0% 1 33.3%		0.0%	3 13.6% 1 3 18.8%	6 1.6% 10 7	0.0%	
BICYCLES	Vehicle % (PHV): Direction: Roadway:	0 0.0%	0 0.0% Sc Hui	0.0% 3 0 0.0% outhbou	3 15.0% and enue		0.0%	0.0% 0 0 0.0% W	1.3% 14 13 3.9% Vestbour	0.0% 1 2.4% nd		0.0%	0 0.0% 0 0 0.0% No	0 0.0% 1 0 0.0% orthbou	0.0% 1 33.3% nd nue		0.0%	3 13.6% 1 3 18.8% E	6 1.6% 10 7 3.3% astbour	0.0% 0 0.0% nd	
	Vehicle % (PHV): Direction: Roadway: Movement:	0 0.0% U	0 0.0% So Hur Left	0.0% 3 0 0.0% outhbourley Ave	3 15.0% and enue Right		0.0% 0 0.0% U	0.0% 0 0.0% Woo Left	1.3% 14 13 3.9% Vestbourtton Par	0.0%  1 2.4%  nd  kway  Right		0.0% 0 0.0% U	0 0.0% 0 0.0% No Hur Left	0 0.0% 1 0 0.0% orthbou ley Ave Thru	0.0% 1 33.3% nd nue Right		0.0% 0 0.0% U	3 13.6% 3 18.8% E Wood	6 1.6% 10 7 3.3% asstbour tton Par	0.0%  0 0.0%  nd rkway Right	
04:00 PM	Vehicle % (PHV):  Direction: Roadway: Movement: to 04:15 PM	0 0.0% U	0 0.0% Sc Hui Left	0.0% 3 0 0.0% outhbourley Ave Thru 0	10.3% 3 15.0% ind enue Right 0		0.0% 0 0.0% U	0.0%  0 0.0%  W Woo Left 0	1.3% 14 13 3.9% Vestboutton Par Thru 0	0.0%  1 2.4%  nd  rkway  Right  0		0.0% 0 0.0% U	0 0.0% 0 0.0% No Hur Left	0 0.0% 1 0 0.0% orthbou ley Ave Thru	0.0%  1 33.3% nd nue Right 0		0.0% 0 0.0% U	3 13.6% 3 18.8% E Wood Left	6 1.6% 1.0 7 3.3% asstbourtton Par Thru	0.0%  0 0.0%  nd  rkway  Right  0	
04:00 PM 04:15 PM	Vehicle % (PHV): Direction: Roadway: Movement:	0 0.0% U	0 0.0% So Hur Left	0.0% 3 0 0.0% outhbourley Ave	3 15.0% and enue Right		0.0% 0 0.0% U	0.0% 0 0.0% Woo Left	1.3% 14 13 3.9% Vestbourtton Par	0.0%  1 2.4%  nd  kway  Right		0.0% 0 0.0% U	0 0.0% 0 0.0% No Hur Left	0 0.0% 1 0 0.0% orthbou ley Ave Thru	0.0% 1 33.3% nd nue Right		0.0% 0 0.0% U	3 13.6% 3 18.8% E Wood	6 1.6% 10 7 3.3% asstbour tton Par	0.0%  0 0.0%  nd rkway Right	
04:00 PM 04:15 PM 04:30 PM	Vehicle % (PHV):  Direction: Roadway: Movement: to 04:15 PM to 04:30 PM	0 0.0% U 0 0	0 0.0% Sc Hur Left 0	0.0% 3 0 0.0% outhbourley Ave Thru 0 0	10.3%  3 15.0%  Ind  Right  0 0		0.0% 0 0.0% U 0	0.0%  0 0.0%  Woo  Left  0 0	1.3% 14 13 3.9% Vestbourtton Par Thru 0 0	0.0%  1 2.4%  nd  rkway  Right  0 0		0.0% 0 0.0% U 0	0 0.0% 0 0.0% No Hur Left 0	0 0.0% 1 0 0.0% orthbou ley Ave Thru 0	0.0%  1 33.3%  nd  nue  Right  0		0.0% 0 0.0% U	3 13.6% 3 18.8% E Wood Left 0	6 1.6% 1.0 7 3.3% castbourntton Par Thru 0 0	0.0% 0 0.0% nd rkway Right 0 0	
04:00 PM 04:15 PM 04:30 PM 04:45 PM	Vehicle % (PHV):  Direction: Roadway: Movement:  to 04:15 PM to 04:30 PM to 04:45 PM	0 0.0% U 0 0	0 0.0% So Hui Left 0 0	0.0% 3 0 0.0% outhbourley Ave Thru 0 0	10.3% 3 15.0% and enue Right 0 0		0.0% 0 0.0% U 0 0	0.0% 0 0.0% Woo Left 0 0	1.3% 14 13 3.9% Vestboun Thru 0 0 1	0.0%  1 2.4% nd		0.0% 0 0.0% U 0 0	0 0.0% 0 0.0% No Hur Left 0 0	0 0.0% 1 0 0.0% orthbou ley Ave Thru 0 0	0.0%  1 33.3% nd nue Right 0 0		0.0% 0 0.0% U 0 0	3 13.6% 1 3 18.8% E Wood Left 0 0	6 1.6% 1.0 7 3.3% asstbourntton Par Thru 0 0 1	0.0%  0 0.0%  nd  rkway  Right  0 0	
04:00 PM 04:15 PM 04:30 PM 04:45 PM 05:00 PM 05:15 PM	Vehicle % (PHV):	0 0.0% U 0 0 0 0	0 0.0% Sc Hui Left 0 0 0	0.0% 3 0 0.0% outhbourley Ave Thru 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 15.0% and enue Right 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0	0.0% 0 0.0% Woo Left 0 0 0 0 0 0 0 0 0 0 0 0	1.3% 1.4 13 3.9% Vestbourtton Par Thru 0 0 1 0 1	0.0%  1 2.4% nd		0.0% 0 0.0% U 0 0 0 0	0 0.0% 0 0.0% No Hur Left 0 0 0	0 0.0% 1 0 0.0% orthbou ley Ave Thru 0 0 0	0.0%  1 33.3%  nd  nue  Right  0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 13.6% 1 3 18.8% Wood Left 0 0 0 0	6 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6	0.0%  0	
04:00 PM 04:15 PM 04:30 PM 04:45 PM 05:00 PM 05:15 PM 05:30 PM	Vehicle % (PHV):  Direction: Roadway: Movement: to 04:15 PM to 04:45 PM to 05:00 PM to 05:15 PM to 05:30 PM to 05:30 PM to 05:30 PM to 05:45 PM	0 0.0% U 0 0 0 0 0	0 0.0% Sc Hun Left 0 0 0 0 0	0.0% 3 0 0.0% 0.0% 0.0% 0.0% 0.0% 0 0 0 0 0 0	3 15.0% and enue Right 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0	0.0%  0 0.0%  Wood Left  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.3% 1.4 13 3.9% Vestbourtton Par Thru 0 0 1 0 0 1 0	0.0%  1 2.4% nd -kway Right 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0	0 0.0% 0 0.0% No Hur Left 0 0 0 0	0 0.0% 1 0 0.0% 0rthbou ley Ave Thru 0 0 0 0	0.0%  1 33.3% nd nue Right 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0	3 13.6% 3 18.8% E Wood Left 0 0 0 0 0	1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6%	0.0%  0 0.0%  nd  rkway  Right  0 0  0 0  0 0  0 0  0 0	
04:00 PM 04:15 PM 04:30 PM 04:45 PM 05:00 PM 05:15 PM 05:30 PM 05:45 PM	Vehicle % (PHV):  Direction: Roadway: Movement:  to 04:15 PM to 04:30 PM to 05:00 PM to 05:30 PM to 05:45 PM to 05:45 PM to 05:45 PM	0 0.0% U 0 0 0 0 0 0	0 0.0% Sc Huil Left 0 0 0 0 0	0.0% 3 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	3 15.0% and enue Right 0 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0 0	0.0% 0 0.0% Woo Left 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.3% 1.4 13 3.9% 1/estbountton Par Thru 0 0 1 0 0 1 0 0 0	0.0%  1 2.4% nd		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.0% 0 0.0% No Hur Left 0 0 0 0	0 0.0% 1 0 0.0% orthbou ley Ave Thru 0 0 0 0 0	0.0%  1 33.3% nd nue Right 0 0 0 0 0 0		0.0% 0 0.0% U 0 0 0 0 0 0	3 13.6% 1 3 18.8% Wood Left 0 0 0 0 0 0	1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6% 1.6%	0.0%  0 0.0%  od rkway  Right  0 0  0 0  0 0  0 0  0 0  0 0	
04:00 PM 04:15 PM 04:30 PM 04:45 PM 05:00 PM 05:15 PM 05:30 PM 05:45 PM 06:00 PM	Vehicle % (PHV):  Direction: Roadway: Movement:  to 04:15 PM to 04:30 PM to 05:00 PM to 05:15 PM to 05:30 PM to 05:45 PM to 05:45 PM to 06:00 PM to 06:15 PM	0 0.0% U 0 0 0 0 0 0 0	0 0.0% Sc Hui Left 0 0 0 0 0 0 0	0.0% 3 0 0.0% outhbourley Ave Thru 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 15.0% and enue Right 0 0 0 0 0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0%  0 0.0%  Woo  Left  0 0  0 0  0 0  0 0  0 0  0 0  0 0	1.3% 1.4 13 3.9% 1.4 15 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.0%  1 2.4% nd ekway Right 0 0 0 0 0 0 0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.0% 0 0.0% No Hur Left 0 0 0 0 0	0 0.0% 1 0 0.0% orthbou ley Ave Thru 0 0 0 0 0 0	0.0%  1 33.3% nd nue Right 0 0 0 0 0 0 0 0 0		0.0%  0 0.0%  U 0 0 0 0 0 0 0 0 0 0 0 0	3 13.6% 1 3 18.8% E Woo' Left 0 0 0 0 0 0	1 0 1 0 1 0 1 1 0	0.0%  0 0.0%  od o	
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DATA COLLECTION NOTES:

Project Name : Rockshire

Project # : 2592-012

Location Montgomery County, MD

Data Source: Gorove/Slade Associates, Inc.

of Counts: Thursday, December 14, 2023
Weather: Partly Cloudy

 Volumes Displayed as:
 2. System Peak (vehicle)

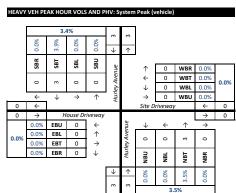
 Intersection Peak Hour (all vehicles):
 05:00 PM
 to
 06:00 PM

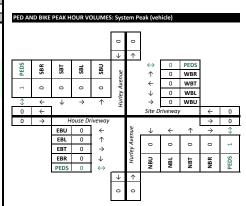
 System Peak Hour (all vehicles):
 05:00 PM
 to
 06:00 PM

 User-Defined Peak Hour:
 05:00 PM
 to
 06:00 PM

Intersection	1.	. Hurley	Avenue	e & Site	Drivew	ay/Hou	ıse Driv	eway									_			
ALL Direction Roadway			outhbou					Vestbou					orthbou					astbour se Drive		
VEHICLES Movement		Left	rley Ave Thru	Right	Peds	U	Left	e Drive	Right	Peds	U	Left	ley Ave	Right	Peds	U	Left	Thru	Right	Peds
04:00 PM to 04:15 PM	0	3	10	0	0	0	0	0	1	0	0	0	13	0	0	0	0	0	0	6
04:15 PM to 04:30 PM	0	3	17	0	0	0	1	0	2	1	0	0	12	0	0	0	0	0	0	3
04:30 PM to 04:45 PM	0	0	12 18	0	0	0	0	0	1	0	0	0	23	0	0	0	0	0	0	9
04:45 PM to 05:00 PM 05:00 PM to 05:15 PM	0	4	24	0	0	0	1	0	2	1	0	0	16 25	0	0	0	0	0	0	1
05:15 PM to 05:30 PM	0	1	16	0	0	0	0	0	1	0	0	0	17	0	0	0	0	0	0	0
05:30 PM to 05:45 PM	0	2	23	0	0	0	0	0	2	0	0	0	21	0	0	0	0	0	1	0
05:45 PM to 06:00 PM	0	4	13	0	0	0	0	0	6	0	0	0	23	0	0	0	0	0	0	0
06:00 PM to 06:15 PM	0	0	15	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	1
06:15 PM to 06:30 PM	0	0	20	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
06:30 PM to 06:45 PM 06:45 PM to 07:00 PM	0	2 1	16 11	0	0	0	0	0	1	0	0	1	15 12	1	0	0	0	0	0	0
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05:00 PM to 06:00 PM	0	11	76	0		0	1	0	11		0	0	86	0		0	0	0	1	
Peak Hour Overall	U	Left	Thru	Right	SB	U	Left	Thru	Right	WB	U	Left	Thru	Right	NB	U	Left	Thru	Right	EB
Factor (PHF) 0.83 HEAVY Direction	n/a	0.69	0.79	n/a	0.78	n/a	0.25	n/a Vestbou	0.46	0.50	n/a	n/a	0.86	n/a	0.86	n/a	n/a F:	n/a	0.25	0.25
VEHICLES Roadway			outhbou rley Ave					Vestbou e Drive					ley Ave					astbour se Drive		
(FHWA 4+) Movement		Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right	
04:00 PM to 04:15 PM	0	0	1	0		0	0	0	0		0	0	2	0		0	0	0	0	
04:15 PM to 04:30 PM	0	0	1	0		0	0	0	0		0	0	0	0		0	0	0	0	
04:30 PM to 04:45 PM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0	
04:45 PM to 05:00 PM 05:00 PM to 05:15 PM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0	
05:15 PM to 05:30 PM	0	0	1	0		0	0	0	0		0	0	0	0		0	0	0	0	
05:30 PM to 05:45 PM	0	0	0	0		0	0	0	0		0	0	1	0		0	0	0	0	
05:45 PM to 06:00 PM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0	
06:00 PM to 06:15 PM	0	0	0	0		0	0	0	0		0	0	1	0		0	0	0	0	
06:15 PM to 06:30 PM	0	0	1	0		0	0	0	0		0	0	1	0		0	0	0	0	
06:30 PM to 06:45 PM 06:45 PM to 07:00 PM	0	0	0 2	0		0	0	0	0		0	0	1	0		0	0	0	0	
07:00 PM to 07:15 PM	ľ	U	2	U		U	U	U	U		U	U	U	U		U	U	U	U	
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08:45 PM to 09:00 PM																				
SYSTEM PEAK HR (VEH.			3					0					3				(	)		
05:00 PM to 06:00 PM	0	0	3	0		0	0	0	0		0	0	3	0		0	0	0	0	
Heavy Vehicle % (PHV		_	3.9%	0.0%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	_	3.5%	0.0%	3.5%	0.0%	0.0%		0.0%	0.0%
INT. PEAK HR (HV ONLY		_	4	0			1 0	0				_	4		-		(		0	
04:00 PM to 05:00 PM Heavy Vehicle % (PHV	0: 0.0%	0 0%	7.0%	-	6.3%	0.0%	0 0%	0.0%	0.0%	0.0%	0.0%	0 0%	6.3%	0.0%	6.3%	0.0%	0.0%	0 0%	0.0%	0.0%
Direction	_	_	outhbou		01370	0.070		Vestbou		0.070	0.070		orthbou		0.570	0.070		astbour		0.070
BICYCLES Roadway			rley Ave					e Drive				Hur	ley Ave				Hous	se Drive		
Movement	_	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right	
04:00 PM to 04:15 PM	0	1	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
04:15 PM to 04:30 PM 04:30 PM to 04:45 PM	0	0	0	0		0	0	0	1 0		0	0	0	0		0	0	0	0	
04:45 PM to 05:00 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
05:00 PM to 05:15 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
05:15 PM to 05:30 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
05:30 PM to 05:45 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
05:45 PM to 06:00 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
06:00 PM to 06:15 PM 06:15 PM to 06:30 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
06:30 PM to 06:45 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
06:45 PM to 07:00 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
07:00 PM to 07:15 PM						1														
07:15 PM to 07:30 PM						1										l				
07:30 PM to 07:45 PM						1										l				
07:45 PM to 08:00 PM						1										l				
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08:30 PM to 08:45 PM 08:45 PM to 09:00 PM SYSTEM PEAK HR (VEH., 05:00 PM to 06:00 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0	
08:30 PM to 08:45 PM 08:45 PM to 09:00 PM SYSTEM PEAK HR (VEH.,	0	0	-	0		0	0	0	0		0	0	0	0		0		0	0	

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	n/a	0.79	0.69	n/a							
		0	0	u	$\downarrow$	1					
	SBR	SBT	SBL	SBU	an		<b>1</b>	11	WBR	0.46	Г
					nen		<b>←</b>	0	WBT	n/a	1
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0	+				,		Site D	riveway	,	4	12
1	$\rightarrow$	Н	louse Di	iveway						$\rightarrow$	11
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	0.25	EBR	1	↓		Hur	NBU	NBL	NBT	NBR	
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					$\downarrow$	<b>1</b>	n/a	n/a	0.86	n/a	





DATA COLLECTION NOTES:

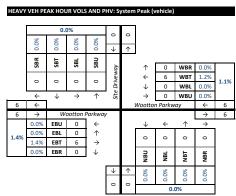
Project Name : Rockshire Project # : 2592-012 Location Montgomery County, MD

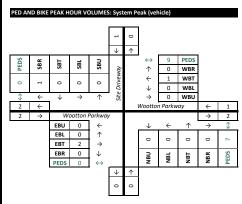
04:00 PM to 07:00 PM Analysis Period: STUDY\_PERIOD Date of Counts: Thursday, December 14, 2023 Weather: Partly Cloudy

Volumes Displayed as: 2. System Peak (vehicle) | Intersection Peak Hour (all vehicles): 05:00 PM to 06:00 PM System Peak Hour (all vehicles): 05:00 PM to 06:00 PM User-Defined Peak Hour: 05:00 PM to 06:00 PM

Data Source:	Gorove	e/Slade A	Associat	es, Inc.																	
Intersection:	1	Site Dri	voway.	/ 2. Wo	otton D	arkwas															ı
Direction:	1.		uthbou		Otton F	arkway		Vestbou	nd			N	orthbou	ınd			E	astbour	nd		
VEHICLES Roadway:			Drivev					tton Par										tton Pa			ا ا
Movement:		Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	U	Left	Thru	Right	Peds	
04:00 PM to 04:15 PM 04:15 PM to 04:30 PM	0	1	0	3	8	0	0	83 79	1	1	0	0	0	0	0	0	2	51 65	0	0	ı
04:30 PM to 04:45 PM	0	1	0	4	6	0	0	130	1	0	0	0	0	0	0	0	3	56	0	0	ı
04:45 PM to 05:00 PM	0	0	0	1	3	0	0	94	0	1	0	0	0	0	0	0	3	64	0	0	ı
05:00 PM to 05:15 PM	0	0	0	2	1	0	0	136	1	1	0	0	0	0	0	0	0	87	0	0	ĺ
05:15 PM to 05:30 PM 05:30 PM to 05:45 PM	0	1	0	0	6 2	0	0	136 125	0	3	0	0	0	0	0	0	1	98 146	0	0	
05:45 PM to 06:00 PM	0	2	0	1	0	0	0	123	4	1	0	0	0	0	0	0	1	99	0	0	ĺ
06:00 PM to 06:15 PM	0	0	0	0	4	0	0	89	1	0	0	0	0	0	0	0	0	78	0	0	ı
06:15 PM to 06:30 PM	0	0	0	0	1	0	0	89	1	0	0	0	0	0	0	0	2	104	0	0	ı
06:30 PM to 06:45 PM	0	0	0	3	2	0	0	54	1	0	0	0	0	0	0	0	6	67	0	0	1
06:45 PM to 07:00 PM 07:00 PM to 07:15 PM	0	2	0	0	4	0	0	57	1	0	0	0	0	0	0	0	2	40	0	0	
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SYSTEM PEAK HR (VEH.)		1			9			27		7			0		0			32		0	
05:00 PM to 06:00 PM  Peak Hour Overall	U U	6 Left	0	5	SB	0 U	0	521	6 Diaba	WB	0 U	0 Left	0	0	NB	U U	2	430	0 Diaha		ı
Factor (PHF) 0.88	n/a	0.50	Thru n/a	Right 0.63	0.55	n/a	Left n/a	Thru 0.96	Right 0.38	0.96	n/a	n/a	Thru n/a	Right n/a	n/a	n/a	Left 0.50	Thru 0.74	Right n/a	EB 0.74	ĺ
HEAVY Direction:		So	uthbou	nd				Vestbou	nd				orthbou				E	Eastbour			
VEHICLES Roadway:			Drivev					tton Par										tton Pa			١.
(FHWA 4+) Movement: 04:00 PM to 04:15 PM	0	Left 0	Thru 0	Right 1		0	Left 0	Thru 5	Right 0		0	Left 0	Thru 0	Right 0		0	Left 1	Thru 2	Right 0		
04:15 PM to 04:30 PM	0	0	0	0		0	0	1	0		0	0	0	0		0	0	2	0		ı
04:30 PM to 04:45 PM	0	0	0	0		0	0	3	0		0	0	0	0		0	0	1	0		ı
04:45 PM to 05:00 PM	0	0	0	0		0	0	2	0		0	0	0	0		0	0	3	0		ı
05:00 PM to 05:15 PM	0	0	0	0		0	0	2	0		0	0	0	0		0	0	1	0		ı
05:15 PM to 05:30 PM 05:30 PM to 05:45 PM	0	0	0	0		0	0	2	0		0	0	0	0		0	0	2	0		ı
05:45 PM to 06:00 PM	0	0	0	0		0	0	1	0		0	0	0	0		0	0	1	0		ı
06:00 PM to 06:15 PM	0	0	0	0		0	0	1	0		0	0	0	0		0	0	1	0		١
06:15 PM to 06:30 PM	0	0	0	0		0	0	2	0		0	0	0	0		0	0	2	0		1
06:30 PM to 06:45 PM 06:45 PM to 07:00 PM	0	0	0	0		0	0	0 2	0		0	0	0	0		0	0	0 2	0		<b>i</b>
07:00 PM to 07:15 PM	ľ	U	U	U		U	U	2	U		U	U	U	U		U	U	2	U		
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SYSTEM PEAK HR (VEH.)		C						6					0					6			ı
05:00 PM to 06:00 PM	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	1.4%	ı
Heavy Vehicle % (PHV): INT. PEAK HR (HV ONLY)	0.0%	0.0%		0.076	0.0%	0.076	_	11.270	0.0%	1.170	0.0%	_	0.0%	0.0%	0.0%	0.0%	_	9	0.076	1.4/0	ı
04:00 PM to 05:00 PM	0	0	0	1		0	0	11	0		0	0	0	0		0	1	8	0		ĺ
Heavy Vehicle % (PHV):	0.0%	0.0%		12.5%	9.1%	0.0%	0.0%			2.8%	0.0%	0.0%		0.0%	0.0%	0.0%		3.4%		3.7%	ı
Direction: BICYCLES Roadway:	-		uthbou Drivev					Vestbou tton Par				N	orthbou	ınd				tton Pa			ı
Movement:	U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		U	Left	Thru	Right		ı
04:00 PM to 04:15 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		•
04:15 PM to 04:30 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		ı
04:30 PM to 04:45 PM	0	0	0	0		0	0	1	0		0	0	0	0		0	0	1	0		ı
04:45 PM to 05:00 PM 05:00 PM to 05:15 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	1	0		Íг
05:15 PM to 05:30 PM	0	0	0	0		0	0	1	0		0	0	0	0		0	0	0	0		1
05:30 PM to 05:45 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	1	0		ΙĪ
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06:00 PM to 06:15 PM 06:15 PM to 06:30 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		lг
06:30 PM to 06:45 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		۱ ۱
06:45 PM to 07:00 PM	0	0	0	0		0	0	0	0		0	0	0	0		0	0	0	0		
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07:30 PM to 07:45 PM 07:45 PM to 08:00 PM	I																				i
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08:15 PM to 08:30 PM	I																				i
08:30 PM to 08:45 PM						1															i
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08:45 PM to 09:00 PM SYSTEM PEAK HR (VEH.)								1					0					2			1

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	0.63	e/u	0.50	n/a							
	0	٠	0	u	$\downarrow$	1					
	SBR	SBT	SBL	SBU	ay		<b>1</b>	6	WBR	0.38	
					Site Driveway		<b>←</b>	521	WBT	0.96	0.9
	2	0	9	0	Dri		$\downarrow$	0	WBL	n/a	0.9
	+	<b>\</b>	$\rightarrow$	1	Site		$\rightarrow$	0	WBU	n/a	
526	+					1	Wootto	n Parkw	ay	+	527
432	$\rightarrow$	W	ootton l	Parkwa	y					$\rightarrow$	436
	n/a	EBU	0	←			$\downarrow$	←	1	$\rightarrow$	
0.74	0.50	EBL	2	1			0	0	0	0	
0.7-1	0.74	EBT	430	$\rightarrow$							
	n/a	EBR	0	$\downarrow$			NBU	NBL	NBT	NBR	
							z	z	z	z	
					<b>V</b>	1	n/a	e/u	n/a	n/a	
					0	0		n	/a		





INT. PEAK HR (BIKES) 04:30 PM to 05:30 PM DATA COLLECTION NOTES:

05:00 PM to 06:00 PM

# C. Signal Timing Data

June 9, 2023 goroveslade.com



SIGNAL NO: 47

INTERSECTION: Wootton Parkway/Rockshire Center

PHONE # x-3823

INITIAL DATE: 9/9/2004

ROAD AND			EB Wootton				WB Wootton	Exclusive Ped	Rockshire Ctr
DIRECTION	<b>→</b>			CONTRACTOR OF THE	MI ACHINI BERSE PROMI		+ North Side Ped Crossing		
INTERVAL	PHASE		2	g	ting the second section of the section of the second section of the second section of the second section of the section of the second section of the section of th	рынальстве месеновіров по поснява опина і пененовія <b>5</b>	6	8	7
RECALL/MEMO	RY		Max	Other Production (Color Color	Committee Committee (19 of Committee) (19 of Com	Bedermann aus an einer voor de	Ped/Max	Lock	NL
MINIMUM GREE	EN	athor mit gertreich seit, schrieb untwestlicken in Angeweichneut leich mit der Angeweichneut und der Angeweich	17	eller i de die die de	POLICE TO LECTURE OF CONSTRUCTION OF THE POLICE TO A PROGRAMMENT OF THE POLICE TO THE POLICE	ik esta, yu, akha, ili dalalala ya usa waka akha waka ka	17	(5)	5
WALK				<del>and a second se</del>	ELECTIVE CONTENTION OF THE UP OF THE PROPERTY		7	7	
PED CLEARANC	E			and the property of the control of t	t (C. C. C	DTC considered the embloying for the transport of the transport of the embloying of the embloying	10	13	
VEH EXTENSION	٧		(5.0)	tigen the large and the second se		entricination of a Physician conservation (see Section 2014) and the section of the section (see Section 2014)	(5.0)	(3.0)	3.0
MAXIMUM I	The second secon		30	er () <del>Mangalog (gg.garus)</del> so <b>na agus, air S</b> airm Agus Agus Anig , air An Eirinig	and the state of t	figual films of the films allowed as a color control of the 2 control of the 2 control of the 2 control of the	30	(40)	15
MAXIMUM II			40	and the second s	TO THE STATE OF TH	oneament amelien een een een van de voor om van de verste van de verste van de verste verste van de verste vers	40	(40)	15
YELLOW			4.0	The second secon	aanteentaan ka too ka	proviente como partirente del circi del como Alberto de Circi de Arganetes contemplais e ele	4.0	(3.0)	3.0
ALL RED			2.0	and an annual security of the	(1915年) - 1920年 - 19	TORKUMENNER ER FRENT ER IN DE TE STE EN	2.0	2.0	2.5
RED REVERT		or enterior many injurity and produce the season of the se	8.0	ng a transport and the second and th		Michigan Milliann (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995)	8.0	8.0	8.0
AMPLIFIER DELAY/STRETCI	н				nd Creation (C.) (1996) gas eller (C.) (1996) en en en eller (C.) (1996)	manatan yang mendiduk di bilan di seren <b>ak sebahan sebilan sebilan di sebilan </b>			(future) 5.0 Delay on Right Turn



SIGNAL NO:21

INTERSECTION: Wootton Pkwy./Hurley Ave.

PHONE #: X-3821

**INITIAL DATE: 1/11/2008** 

ROAD AND			WB Wootton	NB Hurley	SB Hurley		EB Wootton	100 m 300 m 40 m 40 m 40 m 40 m 40 m 40 m	2 NO. 2 304 5 NO. 0 NO. 5 NO. 2 NO. 4 NO. 4 NO. 7 NO. 7 NO.
DIRECTION	<b>→</b>								
INTERVAL	PHASE	1	2	3	4	5	6	7	8
RECALL/MEM	ORY	geographic version is a lateral compactific and a support of the s	Ped/Max	NL	NL		Max		
MINIMUM GRE	EEN	<del>passaniar associa pre e resistan</del> e amelial di <del>dale a spece un ame</del> nin <del>a con constante a serie c</del> e i vere a si	(7)	5	7		(17)		<u>Sakka kana da jalag biya da mili sakka ng a kana na da kana kana kana kana kana k</u>
WALK			7	7	7				Secure and a secure of the
PED CLEARAN	CE	mentande Colombia (m. 1964). Die der von 1964 von der von 1964 von	10	7	7				
VEH EXTENSION	N		(3.0)	2.0	3.0		(3.0)		
MAXIMUM I			40	16	25		40		
MAXIMUM II		mag girt eine gegen der dem dem dem dem der der der dem	(40)	(20)	(30)		(40)		ł
YELLOW			4.0	3.5	3.5		4.0		
ALL RED		<del>reference for extra research auto conticul financial</del> presentation (in estimate that any en a <u>namental</u>	1.0	1.0	1.0	`	1.0		
RED REVERT		Address and Secretary Constraining 2 (1989) (Secretary Constraints	8.0	8.0	8.0		8.0		Construction and Construction (Construction and Construction Cons
AMPLIFIER DELAY/STRET	СН								

SIGNAL NO:21	INTERSECT	TION: Wootton Pk	wy./Hurley Ave.		PHONE #: x-38	21	INITIAL DATE: 1/11/2008			
PHASE	1	2	3	4	5	6	7	8		
INITIALIZATION		Green	enderstand von der Statt im der Anderstand von der Anderstand von der Anderstand von der Anderstand von der An			Green				
CNA I		X				X				
CNA II			gergelige gegen (1955 p. gg) (1955 p. gg) (1956 p. gg) (1							
REST IN WALK										
DUAL ENTRY		x				X				
OVERLAP A										
OVERLAP B			And the second s							
OVERLAP C	the second section of the second seco									
OVERLAP D										

POWER-UP FLASH

8.0 seconds

OPTIONS/SPECIAL FEATURES	YES	NO
PED CLEARANCE PROTECTION		Х
RED REST		Х
gggerde er til med er ett og fillstil kladet er ett får, kladet er ett eg greger er er ett ett er tode ett et		
nggygyn and deministration for the circle (the second single) (the fill of grapes of the circle constant and the constant and		

PROGRAM HIGHLIGHTS/COMMENTS (including description of overlap functions)

Flash: 11 PM to 6AM, 7 days

REVISIONS (use for minor changes only)	PHASE(S)	FROM	то
August and Control for the Con	-		

Signhart BLANK.doc

### TRAFFIC SIGNAL COORDINATION/TOD PROGRAM

																	1					
LO	CATION												,	SIGNA	L NO.:			E: 11				
		C	OORI	DINA	ΓΙΟΝ	I PA	TTE	RNS					_		1	NI	C/TO	D PR	OGR/	AM ST	<u>reps</u>	T
PATTERN	USAGE NOTE:	COORD PHASE(S)	CYCLE (seconds)	OFFSET (percent)				ASE (pero	cent)	ITS				STEP	DAY PGM NO.	START TIME (24 HR)	COORD PATTERN	FLASH	MAX 2	PHASE OMIT	SPECIAL FUNCTN	e.g.: Recall On/Off, MAX 3, Red Rest, etc.
					1	2	3	4	5	6	8	7									<b>3</b> 1 –	
1	offpk	2/6	60	0		38	31	31		38				1	1	0600	5					
2	AM 2	2/6	80	0		46	24	30		46				2	1	0930	1					
3	School	2/6	70	0		46	27	27		46				3	1	1400	3					
4	PM pk	2/6	80	0		50	24	26		50				4	1	1600	4					
5	AM 1	2/6	90	0		50	21	29		50				5	1	1900	1					
6														6	1	2300	0	X				
7														7	2	0600	0					
8														8	2	2300	0	X				
														9	1	0730	2					
DA	Y OF W	EEK				HO	LID	AYS						10								
			X	<b>≃</b> π	YPE:	I		DAY						11								
_ D		DAY PGM	HOLIDAY		IIL.	MONTH		OF:				OAY GM		12								
"		NO.	OF	≦ FL	OAT	_ [Q	V	VEEK	-	WOM	r	NO.		13								
			Н	z FI	XED		M	ONTH	I (	or Yl	R			14								
S	UN	2	1	FI	XED	1		1		0		2		15								
	ION	1	2		XED	7		4		0		2		16								
	UE	1	3		OAT	9		2		1		2		17								
	/ED	1	4		OAT	11		5		4		2		18								
	HU	1	5	FI	XED	12	2	25		0		2		19								
	FRI	1	6											20								
	AT	2	7											21								
	ternate We	eek:	8	_										22								
	UN		9											23								
	ION		10											24								
	UE		11											25								
	/ED		12											26								
	ΉU		13											27								
	FRI		14											28								
	AT		15											29								
MO	NTH/DA	Y		MA	NUA	L CO	NTR	OL						30								
ALT	T WEEK (	ON		TO	D ST	EP:								31								
ALT	Γ WEEK (	OFF		CC	ORD	PAT	TER	N:	0	(Free	e)			32								

SIGNAL NO: 47	INTERSEC*	TION: Wootton Pa	rkway/Rockshi	re Center	PHONE: x-38	23 IN	INITIAL DATE: 9/9/2004			
PHASE	l	annegaringi sinari sisari sinari sinari 2	namani pipuri, njaman perepenantu ereperantu ereperantu ereperantu ereperantu ereperantu ereperantu ereperantu T	a ang disebution desiration of the consession of	S	6	7	8		
INITIALIZATION		Green	asaprononing diagnostic group distanting mangan, on transitional limited and most individually	an ang pengangan pen	TO SERVICE AND THE SERVICE OF THE SERVICE AND	Green				
CNA I	alanda katalon	ananda personen ananan eren eren kan kan kan kan kan kan kan kan kan ka	grafen etan plagadekij, peta Leute Letti tili tili tili tili tili tili tili			X				
CNA II		and the second	og geneger (gg. prir - pal <sub>to se</sub> constituting og <del>elle og e</del> en eg for elle for ell							
REST IN WALK		namental purpopue per per el se sella autoria promotiva del Professioni del Professioni del Professioni del Pr	ACCESSAGE (S)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)			X				
DUAL ENTRY	angana (angana) angana angana (angana (angana) angana (angana) angana (angana) (angana) angana (angana) angana	and a financial control to the financial control to the second con		makan digikal kewaran Siri alimpuh aksi Birinstilla 2.5 k		X				
OVERLAP A				January I - 1 grade & Weight on a state of the state of	. Una halikajala <mark>a e</mark> e ee joogo ja haagoo ay oo ay oo ah ah ah oo	the first of the second se	anabramic milosoputiali, d <sup>a l</sup> isaanaanist o oon-us udqabaananisiinii sidaa a			
OVERLAP B			allegente: Byryd, wich tier, Andreydd i malfalaic o'n Frahi' 200 olw tiw (1980-1980)	killer kunskylinen talvir – nestrekkrekilinin i Franckilikkilingtistill	ili ja salainin kanalainin kanalainin kanalainin kanalainin kanalainin kanalainin kanalainin kanalainin kanala		and any order to recommend the contract of the			
OVERLAP C	gen jagu kin jagu kin jagu kin jagu kan jagu kan jagu kin		radiances, playing the state of	nggaran sa	room die flag van die de state		and the contract of the contra			
OVERLAP D	especial and the second		alemantaka, wan sefigiri (2005 Massimin permantaka 20 Massimin kan mataka 20 Massimin kan mataka 1980 Massimin							

POWER-UP FLASH 8.0 seconds

YES	NO
	X
	Х
	and the second second second second second second
	**************************************
	YES

PROGRAM HIGHLIGHTS/COMMENTS (including description of overlap functions)

Phases 2 and 6 are reversed from their normal directions on Wootton Parkway.

Note sequence reversal of Phases 7 and 8. Phase 7 follows Phase 8 exclusive ped movement.

Note that exclusive ped phase times All Red but not Yellow.

FLASH: 11 PM - 6 AM, Mon-Fri, all day Saturday and Sunday, INTERRUPTABLE BY PED CALL

REVISIONS (use for minor changes only)	PHASE(S) FROM	и то
	enterior and a state of the sta	
TO SECURITION OF THE PROPERTY		

Sigchart 47 Wootton-Rockshire Ctr

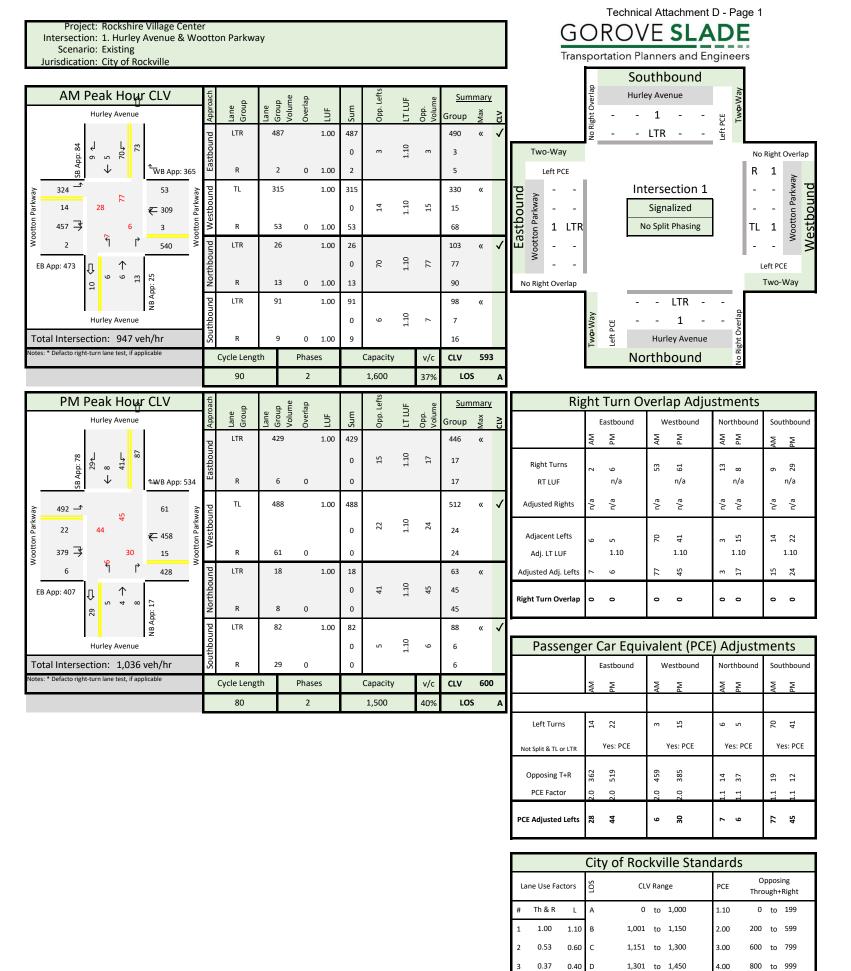
### TRAFFIC SIGNAL COORDINATION/TOD PROGRAM

LOCATION: Wootton Parkway at Rockshire Center SIGNAL NO.: 47 DATE: 11/20/2009																						
LO	CATION								ente	r				SIGNA	L NO.:							
	1	C	OORI	DINA'	<u> TION</u>	PA	TTE	RNS					i			NI	C/TO	D PRO	OGR/	AM ST	<u>reps</u>	T
PATTERN	USAGE NOTE:	COORD PHASE(S)	CYCLE (seconds)	OFFSET (percent)	1	2	,	ASE (perc	ent)		0	-		STEP	DAY PGM NO.	START TIME (24 HR)	COORD PATTERN	FLASH	MAX 2	PHASE OMIT	SPECIAL FUNCTN	OTHER//REMARKS  e.g.: Recall On/Off, MAX 3, Red Rest, etc.
	offen!r	2/6	60	10	1	<b>2</b> 40	3	4	5	<b>6</b> 40	<b>8</b> 37	7 23		1	1	0600	5		•••			
2	offpk AM 2	2/6	80	20		50				50	28	22		2	1	0930	1		X			
3	School	2/6	70	76		43				43	32	25		3	1	1400	3					
4	PM pk	2/6	80	83		50				50	28	22		4	1	1600	4		v			
5	AM 1	2/6	90	18		56				56	25	19		5	1	1900	1		X			
6	AIVI	2/0	90	10		50				30	23	19		6	1	2300	0	v				
7														7	2	0000	0	X				
8														8		0000	0	Λ				
0						ı								9	1	0730	2		X			
DA	Y OF W	EEK				но	LID	AYS						10	1	0730			Λ			
	1 01 11							DAY						11								
		DAY	HOLIDAY	T KE	YPE:	TH		OF:				DAY		12								
D		PGM NO.			LOAT	MONTH	W	/EEK	,	WOM		PGM NO.		13								
		NO.	H	ξ FI	XED	≥		ONTH	0 1	or YI		NO.		14								
S	UN	2	1	FI	XED	1		1		0		2		15								
M	ON	1	2	FI	XED	7		4		0		2		16								
T	UE	1	3	FL	OAT	9		2		1		2		17								
W	'ED	1	4	FL	OAT	11		5		4		2		18								
T	HU	1	5	FI	XED	12		25		0		2		19								
	FRI	1	6											20								
	AT	2	7											21								
	ternate W	eek:	8											22								
	UN		9											23								
	ION		10	_										24								
	UE		11											25								
	/ED		12						_		_			26								
	HU		13						_		_			27								
	FRI		14			-								28			-					
	AT NEW DA	<b>X</b> 7	15		4 NIT 1 4 T		NITTE :	O.T.						29								
	NTH/DA	i		_	ANUAI		NTR(	UL			_			30								
	WEEK (			_	DD STI				-					31								
ALT	WEEK (	OFF		CC	OORD	PAT	TERI	N:	0	(Free	e)			32								

Coordination Chart 47

# D. CLV Analyses

June 9, 2023 goroveslade.com



0.25

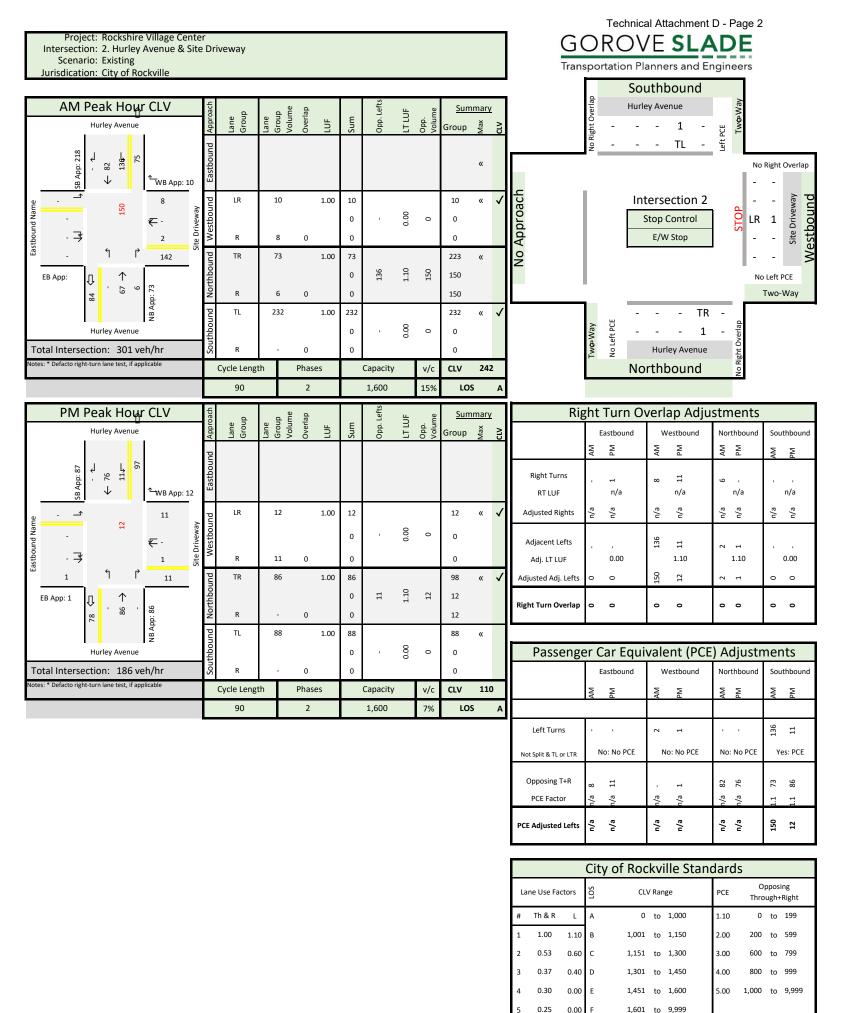
0.00

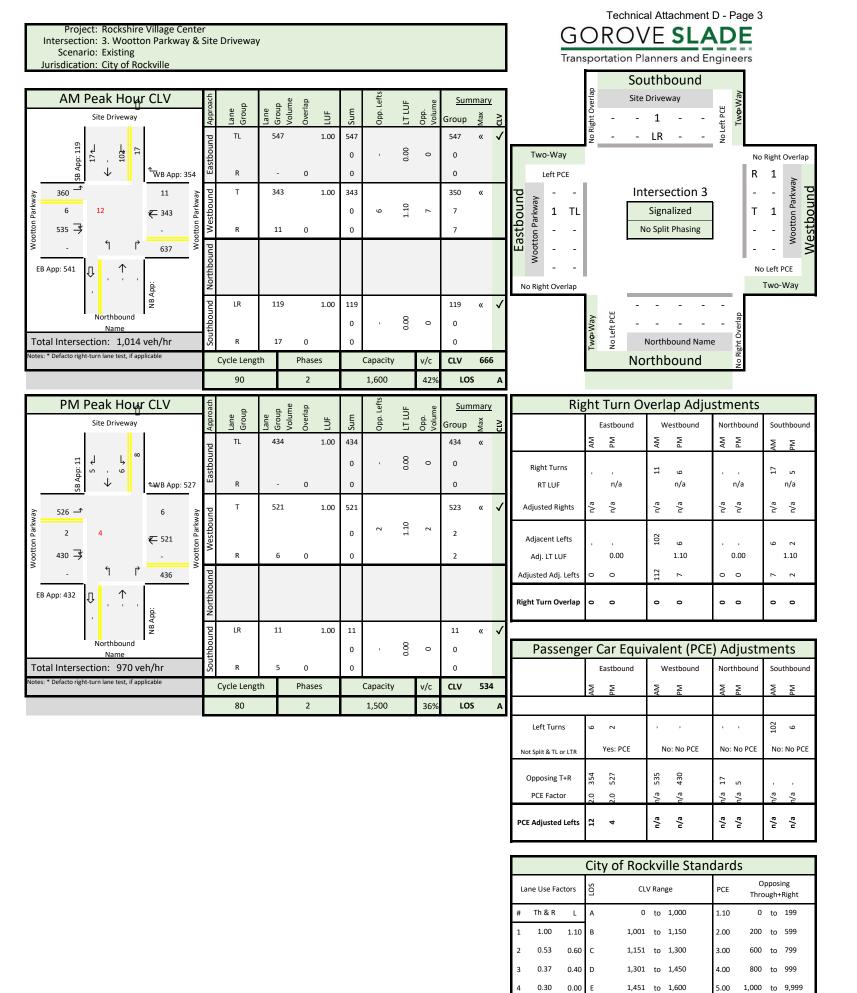
1,451 to 1,600

1,601 to 9,999

5.00

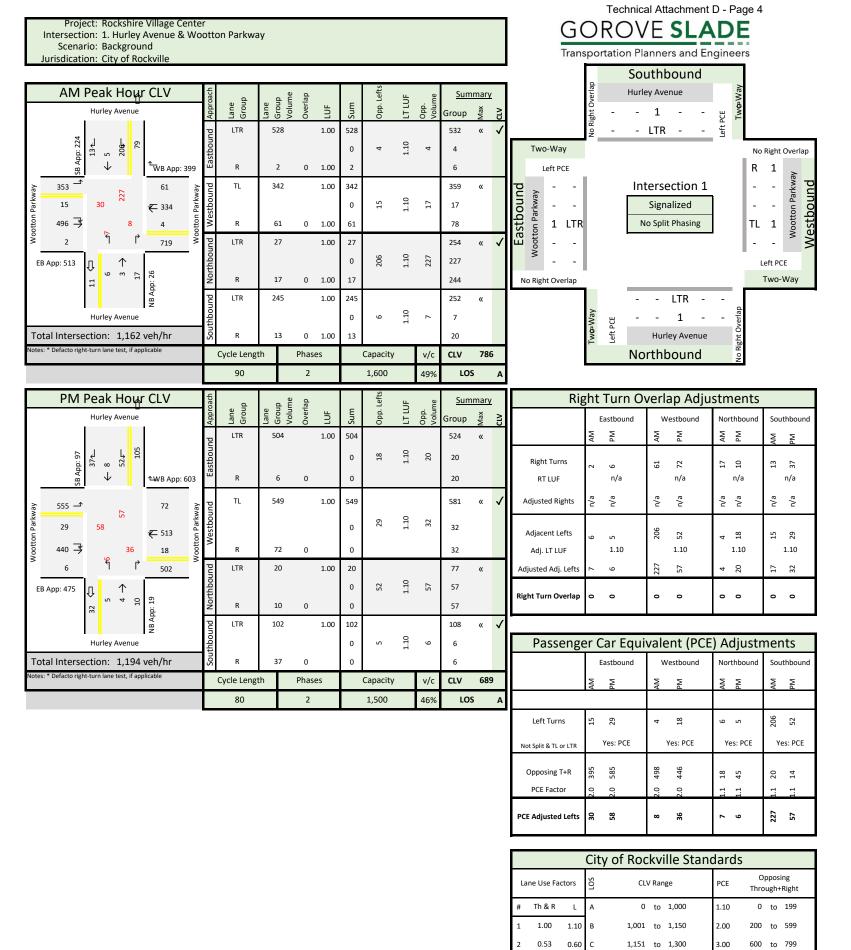
1,000 to 9,999





0.00

1,601 to 9,999



0.30

0.25

0.40

0.00

1,301 to 1,450

1,451 to 1,600

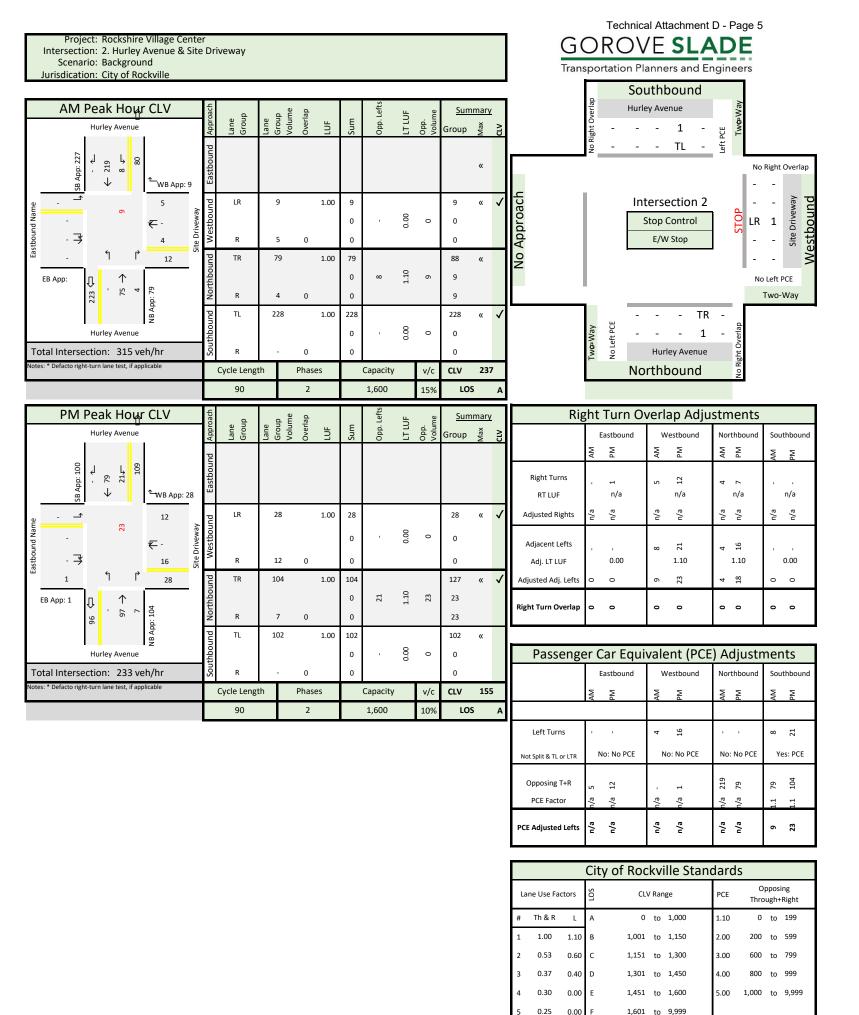
1,601 to 9,999

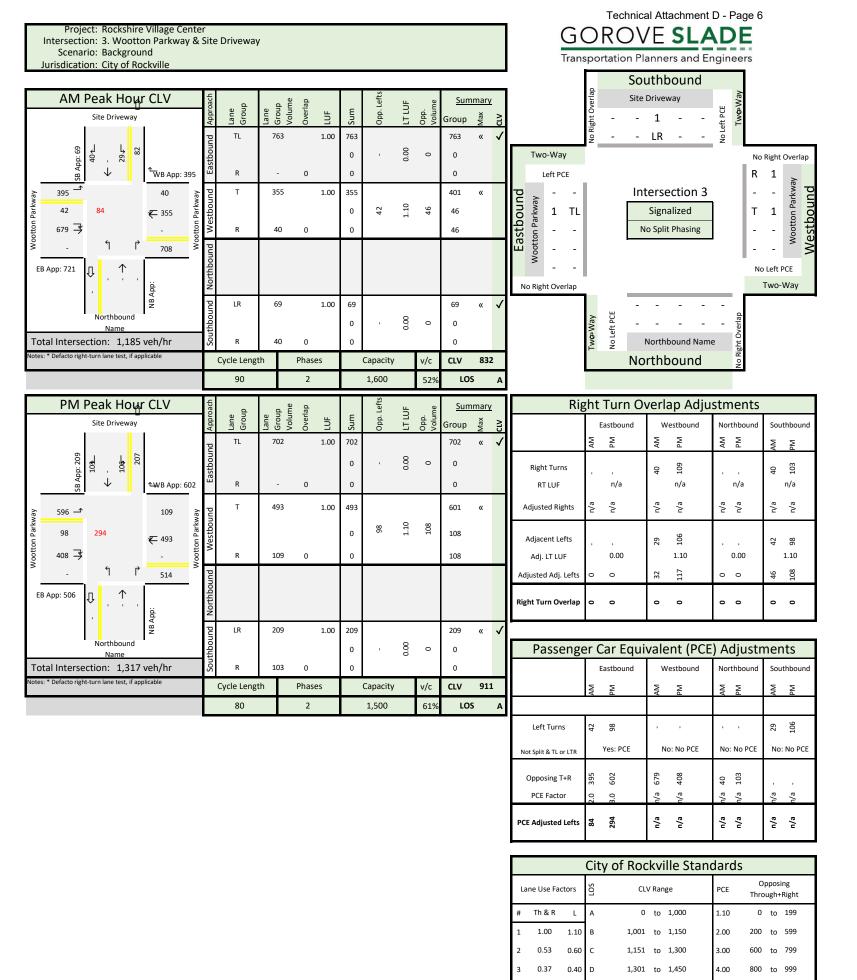
4.00

5.00

800 to 999

1,000 to 9,999





0.25

0.00

0.00

1,451 to 1,600

1,601 to 9,999

5.00

1,000 to 9,999

Intersection: 1. Hurley Avenue & Wootton Parkway

<sup>™</sup>WB App: 384

61

₹ 320

687

Scenario: Total Future Iurisdication: City of Rockville

AM Peak Hour CLV

206

 $\uparrow$ 

10

Total Intersection: 1,115 veh/hr

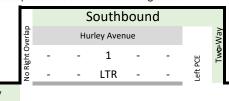
341

13

EB App: 480

465 🕏

### GOROVE **SLADE** Transportation Planners and Engineers



Sum	mary	<u>/</u>					
roup	Max	CLV					
196	«	<b>✓</b>					
3				Two	o-Wa	ıy	
5					Left P	CE	
340	«		p	>	-	-	
14			oni	rkwa	-	-	
75			Eastbound	on Pa	1	LTR	
253	«		Ea	Wootton Parkway	-	-	
777				≥			

No Right Overlap

Left PCE

Group

496

3

340

14

75

253

227

243

254

1.10

1.10

1.10

1.10

No Right Overlap 1 Wootton Parkway Intersection 1 Signalized No Split Phasing TL 1 Left PCE Two-Way

v/c <b>CLV 750</b>
22
r 7

	_												
		90			2			1,600		47%	LOS	5	,
PM Peak Hour CLV	oach	d	9	р me	ар			Opp. Lefts	JF.	ne	Sum	ımary	
Hurley Avenue	Approach	Lane Group	Lane	oroup Volume	Overlap	LUF	wns	Opp.	LT LUF	Opp. Volume	Group	Max	;
	ρι	LTR	40	63		1.00	463				481	<b>«</b>	
SB App: 92 ↑	Eastbound						0	16	1.10	18	18		
≚	Ea	R	•	6	0		0				18		
è 513 - ↑ 72 è	pui	TL	50	08		1.00	508				538	«	,
27 54 72 New Ava de	stbound						0	27	1.10	30	30		

LTR

TL

LTR

LTR

Cycle Length

326

61

26

16

15

5

1.00 493

1.00

1.00

1.00 247

1.00

326

61

26

16

15

0 1.00

0 1.00

0 1.00

	Right Tu	rn Overlap Adjı	ustments	
	Eastbound	Westbound	Northbound	Southbound
	MA M	MA M	A P A	A A
Right Turns RT LUF	2 9 n/a	n/a 22	n/a 8 n/a	u/a 32
Adjusted Rights	n/a n/a	n/a	n/a n/a	n/a n/a
Adjacent Lefts Adj. LT LUF Adjusted Adj. Lefts	0 IN 1.10	227 206 27 206 27 27 20	e 9 1.10	30 01.1 13 27 13
Right Turn Overlap	0 0	0 0	0 0	0 0

LTR

1

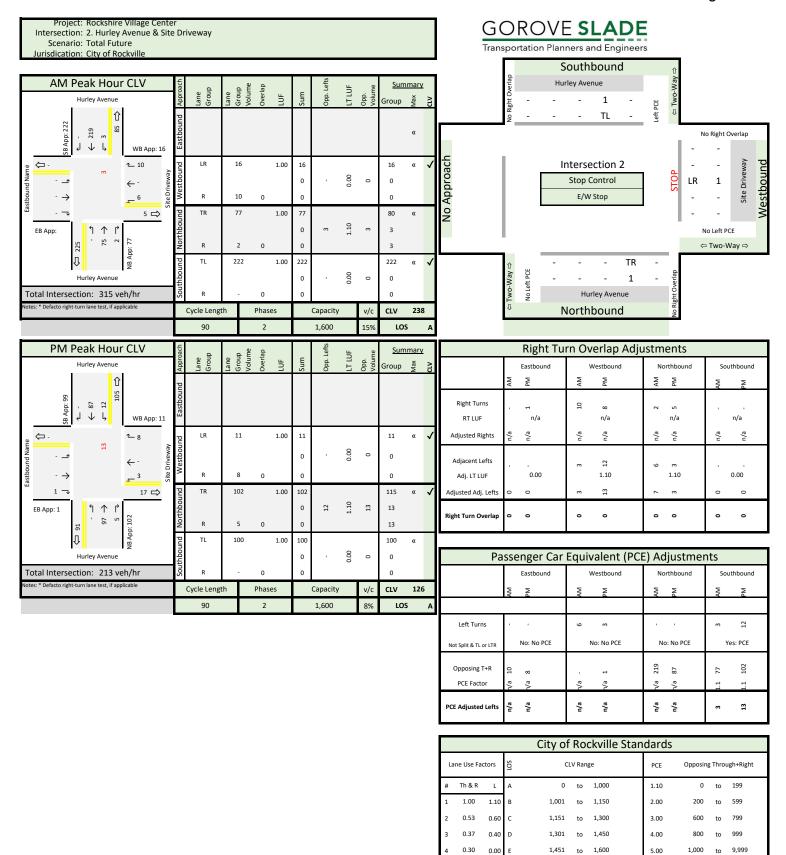
Hurley Avenue

Northbound

Pa	ssenger Car	Equivalent (PCI	E) Adjustmei	nts
	Eastbound	Westbound	Northbound	Southbound
	AM M	M M	AM M	MA M
Left Turns	13	3 16	9 2	206
Not Split & TL or LTR	Yes: PCE	Yes: PCE	Yes: PCE	Yes: PCE
Opposing T+R	381	467	20	19
PCE Factor	2.0	5.0	1.1	1:1
PCE Adjusted Lefts	26 54	32	7 6	57

				City of	Ro	ckville	Stan	dards			
La	ine Use Fa	ctors	SOT	CL	V Ran	ge		PCE	Opposing	g Throu	ugh+Right
#	Th & R	L	Α	0	to	1,000		1.10	0	to	199
1	1.00	1.10	В	1,001	to	1,150		2.00	200	to	599
2	0.53	0.60	С	1,151	to	1,300		3.00	600	to	799
3	0.37	0.40	D	1,301	to	1,450		4.00	800	to	999
4	0.30	0.00	Ε	1,451	to	1,600		5.00	1,000	to	9,999
5	0.25	0.00	F	1,601	to	9,999					

		Hurley	Avenue	_		Арр	Lan Gro	Lan Gro	Vol	Ë	Sur	ddo	5	Opp Volu	Group	Max	CLV
	SB App: 92	32℃ ← 8	52.¢— 103	<b>1</b> ₩B App: 56	64	Eastbound	LTR R	463	0	1.00	463 0	16	1.10	18	481 18 18	«	
kway	513 —	-	57	72		puno	TL	508		1.00	508		0		538	«	✓
Wootton Parkway	27 403 <del>-</del>		32	<b>₹</b> 476	Wootton Parkway	Westbound	R	72	0		0	27	1.10	30	30 30		
>	6	4	r	463	>	pur	LTR	18		1.00	18				75	«	
E	В Арр: 436	Û	$\uparrow$		'	Northbound					0	52	1.10	57	57		
		30	4 %	NB App: 17		No	R	8	0		0				57		
				NB A		pun	LTR	97		1.00	97				103	<b>«</b>	✓
		Hurley	Avenue			Southbound					0	N	1.10	9	6		
To	otal Inters	ection:	1,109	veh/hr		Sou	R	32	0		0				6		
Note	es: * Defacto rigi	nt-turn lane	test, if app	olicable			Cycle Lengt	th	Pha	ses		Capacity	y	v/c	CLV	64:	L
							80		2			1 500		13%	10		Δ



0.25 0.00

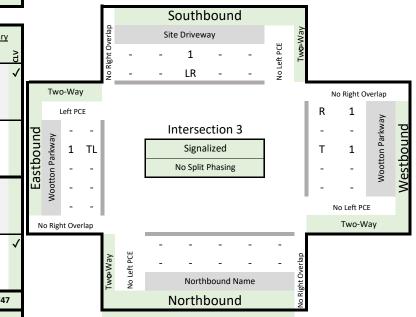
1,601

to 9,999

Project: Rockshire Village Center
Intersection: 3. Wootton Parkway & Site Driveway

Scenario: Total Future Jurisdication: City of Rockville





	AM I	Peak Hour	CLV	Approach	dı	d.	lap			Opp. Lefts	Ŧ,	ne	Sum	nmary	<u>!</u>
		Site Driveway		Appr	Lane Group	Lane Group	Overlap	Ä	Sum	Орр.	LT LUF	Opp. Volume	Group	Max	CLV
				pu	TL	699		1.00	699				699	«	<b>√</b>
	p: 48	25¢ - 23¢ 20		Eastbound					0		0.00	0	0		
	SB App: 48	↓	^WB App: 365	Eas	R	-	0		0				0		
vay	380 →		10	pur	Т	355		1.00	355				366	«	
Wootton Parkway	10	20	10 R	Westbound					0	10	1.10	11	11		
otton	679 📑		- #	We	R	10	0		0				11		
W	-	1 1	702	pur											
E	В Арр: 689	₽	:db	Northbound											
			NB App:	pur	LR	48		1.00	48				48	«	<b>✓</b>
	•	Northbound Name	•	Southbound					0	,	0.00	0	0		
To	otal Interse	ction: 1,102 v	veh/hr	Sou	R	25	0		0				0		
Note	s: * Defacto right	-turn lane test, if appl	licable		Cycle Lengt	:h	Phas	ses		Capacity	/	v/c	CLV	74	7
					90		2			1,600		47%	LO	s	Α

		_			_									_
PM Peak Hour	CLV	Approach	Lane Group	Lane	Group Volume	Overlap	LUF	Sum	Opp. Lefts	LT LUF	Opp. Volume	<u>Sum</u> Group	mary & E	CLV
SB App: 49 22 ← - 27 ← - 65	<b>^</b> ₩B App: 575	Eastbound	TL R		92	0	1.00	492 0 0		0.00	0	492 0 0	«	
25 50 tottoo 442 7	Cootton Parkway	Westbound	T R		35 10	0	1.00	535 0 0	25	1.10	28	563 28 28	«	<b>√</b>
EB App: 467	469	Northbound												
Northbound Name  Total Intersection: 1,091 v	l	Southbound	LR R		19	0	1.00	49 0 0		0.00	0	49 0 0	«	<b>✓</b>
Notes: * Defacto right-turn lane test, if appl	licable		Cycle Lengt	th	F	Phase	es		Capacity		v/c	CLV	612	<u>?</u>
			80			2			1,500		41%	LOS	5	Α

-				
	Right Tu	rn Overlap Adjı	ustments	
	Eastbound	Westbound	Northbound	Southbound
	A P P	MA M	A P A	A A
Right Turns RT LUF	n/a	n/a 0 4	n/a	n/a
Adjusted Rights	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Adjacent Lefts Adj. LT LUF Adjusted Adj. Lefts	0.00	30 23 23 33 24 24 24 25 23	0.00	110 28 10 25 10
Right Turn Overlap	0 0	0 0	0 0	0 0

Pa	ssenger Car	Equivalent (PCI	E) Adjustmer	nts
	Eastbound	Westbound	Northbound	Southbound
	AM M	AM PM	AM PM	AM M
Left Turns	25	1 1	1 1	23
Not Split & TL or LTR	Yes: PCE	No: No PCE	No: No PCE	No: No PCE
Opposing T+R PCE Factor	2.0 365	n/a 679 n/a 442	n/a 25 n/a 22	n/a - n/a -
PCE Adjusted Lefts	50	n/a n/a	n/a n/a	n/a n/a

City of Rockville Standards											
Lane Use Factors			SOT	CLV Range			PCE	Opposing Through+Right			
#	Th & R	L	Α	0	to	1,000		1.10	0	to	199
1	1.00	1.10	В	1,001	to	1,150		2.00	200	to	599
2	0.53	0.60	С	1,151	to	1,300		3.00	600	to	799
3	0.37	0.40	D	1,301	to	1,450		4.00	800	to	999
4	0.30	0.00	E	1,451	to	1,600		5.00	1,000	to	9,999
5	0.25	0.00	F	1,601	to	9,999					

#### E. MDOT SHA Historical AADT Data

June 9, 2023 goroveslade.com

Road	Location					Historical A	ADT's (Source: MDOT S	SHA I-TMS)				
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hurley Avenue	BETWEEN MD 28 & WATTS BRANCH PKWY	-	6210	6221	6202	6363	6484	6645	5940	5941	4962	5683
Wotton Parkway	Burning Tree Road to MD 188	16620	16491	16522	16230	16651	16972	15490	15351	16002	13362	15293

-10.61%

-0.90%

0.02%

4.24%

-16.48%

-16.50%

-2.53%

-2.19%

-0.53%

-0.40%

0.1%

0.1%

ANNUAL CHANGES	i								AVG INCLUDES 202	(W/O 2020	
			Annua	al Growth					Avg Annual Growth	Avg Annual Growth	Annual Growth
2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Between 2012-2020	Between 2012-2019	in Analysis

2.48%

-8.73%

CHANGES FROM	PRIOR YEARS TO 2020 AADTS								Avg Annual Growth
2011-2020	2012-2020	2013-2020	2014-2020	2015-2020	2016-2020	2017-2020	2018-2020	2019-2020	Between 2012-2019
N/A	-2.77%	-3.18%	-3.65%	-4.85%	-6.47%	-9.28%	-8.60%	-16.48%	-6.91%
-2.40%	-2.60%	-2.99%	-3.19%	-4.31%	-5.80%	-4.81%	-6.70%	-16.50%	-5.48%

1.90%

1.93%

2.60%

2.59%

0.18%

0.19%

N/A

-0.78%

-0.31%

-1.77%

<b>CHANGES FROM</b>	PRIOR YEARS TO 2019 AADTS								Avg Annual Growth
2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Between 2012-2019
N/A	-0.63%	-0.76%	-0.86%	-1.70%	-2.87%	-5.45%	0.02%		-1.75%
-0.47%	-0.43%	-0.53%	-0.28%	-0.99%	-1.94%	1.64%	4.24%		0.15%

ANNUAL CHANGES AVG INCLUDES 202(W/O 2020

				Annual Growth	1					Avg Annual Growth Between 2012-2019	
2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Detween 2012-2020	Detween 2012-2019	III Allalysis
N/A	0.18%	-0.31%	2.60%	1.90%	2.48%	-10.61%	0.02%	-16.48%	-2.53%	-0.53%	0.1%
-0.78%	0.19%	-1.77%	2.59%	1.93%	-8.73%	-0.90%	4.24%	-16.50%	-2.19%	-0.40%	0.1%

CHANGES FROM	PRIOR YEARS TO 20	20 AADTS							Avg Annual Growth
2011-2020	2012-2020	2013-2020	2014-2020	2015-2020	2016-2020	2017-2020	2018-2020	2019-2020	Between 2012-2019
N/A	-2.77%	-3.18%	-3.65%	-4.85%	-6.47%	-9.28%	-8.60%	-16.48%	-6.91%
-2.40%	-2.60%	-2.99%	-3.19%	-4.31%	-5.80%	-4.81%	-6.70%	-16.50%	-5.48%

CHANGES FROM	1 PRIOR YEARS TO 20	19 AADTS							Avg Annual Growth
2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	Between 2012-2019
N/A	-0.63%	-0.76%	-0.86%	-1.70%	-2.87%	-5.45%	0.02%		-1.75%
-0.47%	-0.43%	-0.53%	-0.28%	-0.99%	-1.94%	1.64%	4.24%		0.15%

#### F. Detailed Site Trip Generation Calculations

June 9, 2023 goroveslade.com

#### **Trip Generation - Retail**

52,000 SF Grocery

Land Use	Land Use Code	Quantity		AM Peak	Hour		PM Pe	ak Hour	Weekday		Sat Pea	k Hour*
Land Ose	Land Ose Code	Quantity	In	Out	Total	In	Out	Total	Total	In	Out	Total
Retail (Grocery)	850	52,000 sf	88 veh/hr	61 veh/hr	149 veh/hr	233 veh/hr	232 veh/hr	465 veh/hr	4,876 veh	263 veh/hr	262 veh/hr	525 veh/hr
	Cai	culation Details:	59%	41%	=2.86(X/1000)	50%	50%	=8.95(X/1000)	=83.39(X/1000)+539.33	50%	50%	=10.1(X/1000)

<sup>\*</sup>Peak Hour of Generator used for Saturday Trip Generation

#### **Trip Generation - Residential**

29 townhomes

Land Use	Land Use Code	Quantity		AM Peak	Hour		PM Pe	ak Hour	Weekday		Sat Pe	ak Hour*
Land OSC	Land OSE Code	Quantity	In	Out	Total	In	Out	Total	Total	In	Out	Total
Residential	220	29 du	8 veh/hr	24 veh/hr	32 veh/hr	21 veh/hr	12 veh/hr	33 veh/hr	261 veh	6 veh/hr	6 veh/hr	12 veh/hr
	Ca	lculation Details:	24%	76%	=0.31X+22.85	63%	37%	=0.43X+ 20.55	=6.41X+75.31	50%	50%	=0.41X

<sup>\*</sup>Peak Hour of Generator used for Saturday Trip Generation

#### **Trip Generation - Residential**

31 SFH

Land Use	Land Use Code	Quantity		AM Peak	Hour		PM Pe	ak Hour	Weekday		Sat Pea	ak Hour*
Land O3e	Land OSE Code	Quantity	In	Out	Total	In	Out	Total	Total	In	Out	Total
Residential	210	31 du	7 veh/hr	19 veh/hr	26 veh/hr	21 veh/hr	12 veh/hr	33 veh/hr	344 veh	19 veh/hr	17 veh/hr	36 veh/hr
	Ca	lculation Details:	26%	74%	Ln(T)=0.91Ln(X)+0.12	63%	37%	Ln(T)=0.94Ln(X)+0.27	Ln(T)=0.92Ln(X)+2.68	54%	46%	=0.86X+9.72

<sup>\*</sup>Peak Hour of Generator used for Saturday Trip Generation

#### Trip Generation - Retail

5,500 SF Fast Casual Restaurant

Land Use	Land Use Code	Quantity		AM Peak	Hour		PM Pe	ak Hour	Weekday		Sat Pea	ık Hour*
Land Ose	Land Ose Code	Quantity	In	Out	Total	In	Out	Total	Total	In	Out	Total
Fast Casual Rest	930	5,500 sf	4 veh/hr	4 veh/hr	8 veh/hr	38 veh/hr	31 veh/hr	69 veh/hr	534 veh	99 veh/hr	81 veh/hr	180 veh/hr
	Ca	Ilculation Details:	50%	50%	=1.43(X/1000)	55%	45%	=12.55(X/1000)	=97.14(X/1000)	55%	45%	=32.64(X/1000)

<sup>\*</sup>Peak Hour of Generator used for Saturday Trip Generation

#### G. Table 2-6 M-NCPPC LATR Guidelines

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#### **Preliminary Site Distributions**

\*Derived from Appendix Table 2-6 of the M-NCPPC LATR Guidelines

Trip Assignment for Super District (Development Located in Super District 4--Rockville/North Bethesda)

		Direction			Auto Driver
Super District	Wootton Parkway (to/from the S, SE, SW)	Wootton Parkway (to/from the N, NE. NW)	Hurley Avenue (to/from the NE, E, SE)	Sum	Distribution-District 4 Residential
1 (Bethesda/Chevy Chase)	90%	0%	10%	100%	7.4%
2 (Silver Spring/Takoma Park)	90%	0%	10%	100%	2.3%
3 (Potomac/Darnestown/Travilah)	35%	65%	0%	100%	5.4%
4 (Rockville/North Bethesda)	45%	30%	25%	100%	38.2%
5 (Kensington/Wheaton)	60%	0%	40%	100%	4.1%
6 (White Oak/Fairland/Cloverly)	50%	30%	20%	100%	1.6%
7 (Gaithersburg/Shady Grove)	0%	50%	50%	100%	13.4%
8 (Aspen Hill/Olney)	40%	40%	20%	100%	2.8%
9 (Germantown/Clarksburg)	0%	30%	70%	100%	1.7%
10 (Rural West of I-270)	0%	50%	50%	100%	0.1%
11 (Rural East of I-270)	0%	75%	25%	100%	0.3%
12 (Washington, DC)	75%	0%	25%	100%	11.0%
13 (PG/AA/Cal/St. M/Chls Cos., MD)	85%	0%	15%	100%	4.4%
14 (VA/WV)	40%	40%	20%	100%	6.5%
15 (Frederick Co., MD)	0%	40%	60%	100%	0.3%
16 (Howard Co./Carroll Co., MD)	10%	40%	50%	100%	0.5%

Trip Assignment for Development Case

Trip Assignment for Development Case					
		Direction			Auto Driver
Super District	Shady Grove Rd (to/from the Southwest)	I-370/I-270 (to/from the South)	I-370/I-270 (to/from the Northwest)		Distribution-District 4 Residential
1 (Bethesda/Chevy Chase)	6.7%		0.7%	7.4%	7.4%
2 (Silver Spring/Takoma Park)	2.1%		0.2%	2.3%	2.3%
3 (Potomac/Darnestown/Travilah)	1.9%	3.5%		5.4%	5.4%
4 (Rockville/North Bethesda)	17.2%	11.5%	9.6%	38.2%	38.2%
5 (Kensington/Wheaton)	2.5%		1.6%	4.1%	4.1%
6 (White Oak/Fairland/Cloverly)	0.8%	0.5%	0.3%	1.6%	1.6%
7 (Gaithersburg/Shady Grove)		6.7%	6.7%	13.4%	13.4%
8 (Aspen Hill/Olney)	1.1%	1.1%	0.6%	2.8%	2.8%
9 (Germantown/Clarksburg)		0.5%	1.2%	1.7%	1.7%
10 (Rural West of I-270)		0.1%	0.1%	0.1%	0.1%
11 (Rural East of I-270)		0.2%	0.1%	0.3%	0.3%
12 (Washington, DC)	8.3%		2.8%	11.0%	11.0%
13 (PG/AA/Cal/St. M/Chls Cos., MD)	3.7%		0.7%	4.4%	4.4%
14 (VA/WV)	2.6%	2.6%	1.3%	6.5%	6.5%
15 (Frederick Co., MD)		0.1%	0.2%	0.3%	0.3%
16 (Howard Co./Carroll Co., MD)	0.1%	0.2%	0.3%	0.5%	0.5%
Distribution (Sum)	46.8%	27.0%	26.2%	100.0%	100.0%
Distribution (Assumed)	47%	27%	26%		100.0%

#### H. Speed Study Data

June 9, 2023 goroveslade.com

Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

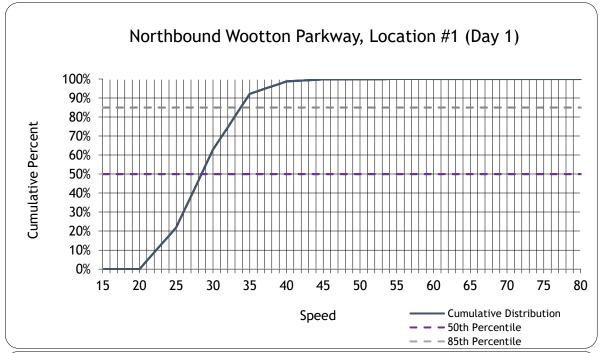
Counted By: Gorove Slade
Posted Speed Limit: 35 MPH
Types of Vehicles: All Vehicles

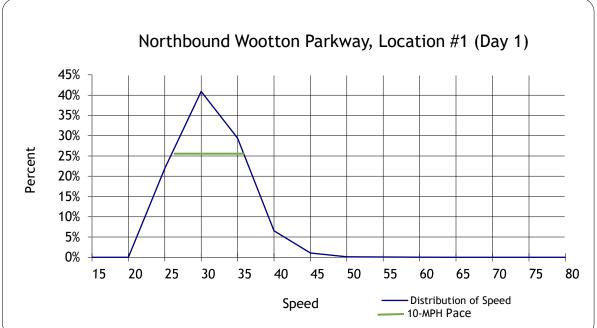
Weather Conditions:

Date: 12/20/2022
Day: Tuesday
Time Range: 24 hours
Direction: NB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 31 mph 85th Percentile: 34 mph Vehicles Observed : 4421 95th Percentile: mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	970	22%
30	1808	41%
35	1299	29%
40	288	7%
45	46	1%
50	5	0%
55	4	0%
60	1	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Total Vehicles

Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

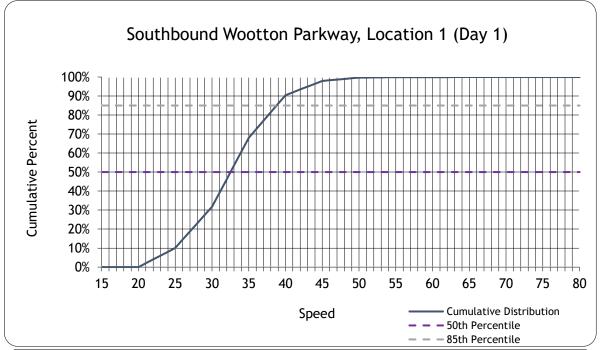
Counted By: Gorove Slade
Posted Speed Limit: 35 MPH
Types of Vehicles: All Vehicles

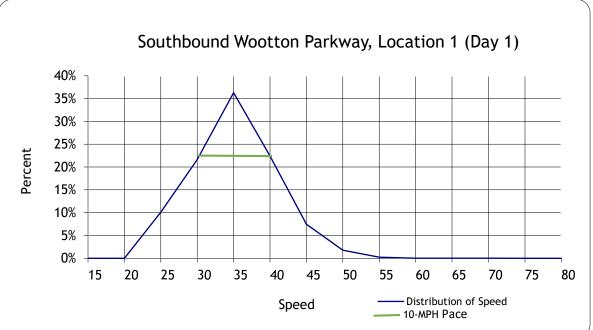
Weather Conditions:

Date: 12/20/2022
Day: Tuesday
Time Range: 24 hours
Direction: SB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 34 mph 85th Percentile: 39 mph : 3565 Vehicles Observed 95th Percentile: mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	360	10%
30	772	22%
35	1294	36%
40	799	22%
45	266	7%
50	63	2%
55	8	0%
60	1	0%
65	1	0%
70	1	0%
75	0	0%
80	0	0%





Total Vehicles

Street: Wootton Parkway n. of Hurley

Capture Zone: Local

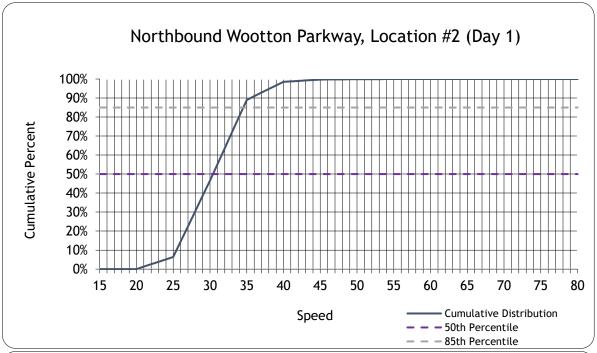
Counted By: Gorove Slade
Posted Speed Limit: 35 MPH
Types of Vehicles: All Vehicles

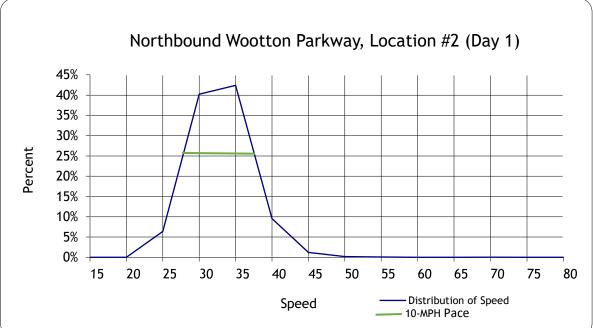
Weather Conditions:

Date: 12/20/2022
Day: Tuesday
Time Range: 24 hours
Direction: NB

Lowest Recorded Speed: 25 mph 15th Percentile: 26 mph Highest Recorded Speed: 45 mph 50th Percentile: 30 mph Average Speed: 33 mph 85th Percentile: 35 mph Vehicles Observed: 4295 95th Percentile: 38 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	274	6%
30	1728	40%
35	1821	42%
40	409	10%
45	51	1%
50	8	0%
55	3	0%
60	0	0%
65	0	0%
70	1	0%
75	0	0%
80	0	0%





Total Vehicles

Street: Wootton Parkway n. of Hurley

Capture Zone: Local

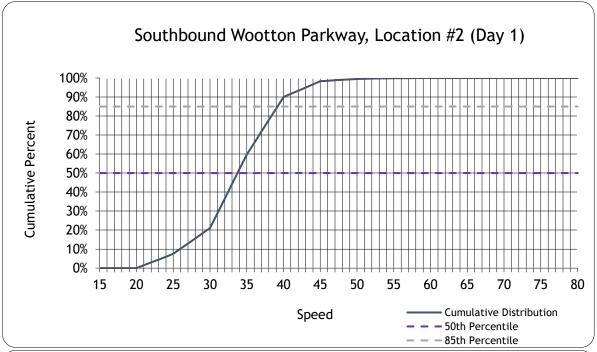
Counted By: Gorove Slade
Posted Speed Limit: 35 MPH
Types of Vehicles: All Vehicles

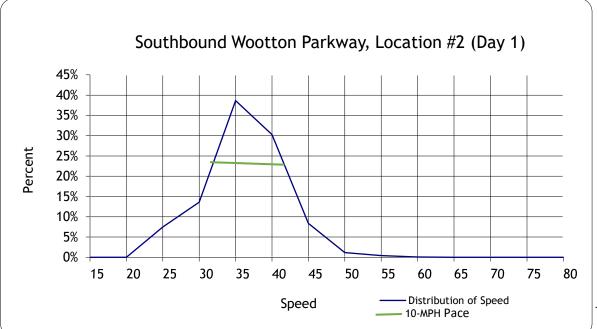
Weather Conditions:

Date: 12/20/2022
Day: Tuesday
Time Range: 24 hours
Direction: SB

Lowest Recorded Speed: 25 mph 15th Percentile: 28 mph
Highest Recorded Speed: 45 mph 50th Percentile: 34 mph
Average Speed: 35 mph 85th Percentile: 39 mph
Vehicles Observed: 3282 95th Percentile: 43 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	246	7%
30	446	14%
35	1268	39%
40	993	30%
45	275	8%
50	38	1%
55	13	0%
60	3	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

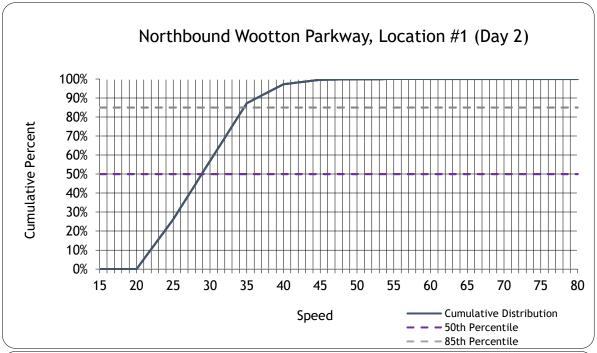
Counted By: Gorove Slade
Posted Speed Limit: 35 MPH
Types of Vehicles: All Vehicles

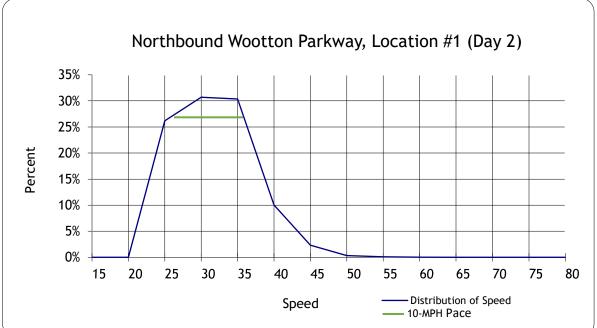
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 24 hours
Direction: NB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 31 mph 85th Percentile: 35 mph : 3850 Vehicles Observed 95th Percentile: 39 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	1008	26%
30	1182	31%
35	1169	30%
40	386	10%
45	89	2%
50	12	0%
55	3	0%
60	1	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Total Vehicles

Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

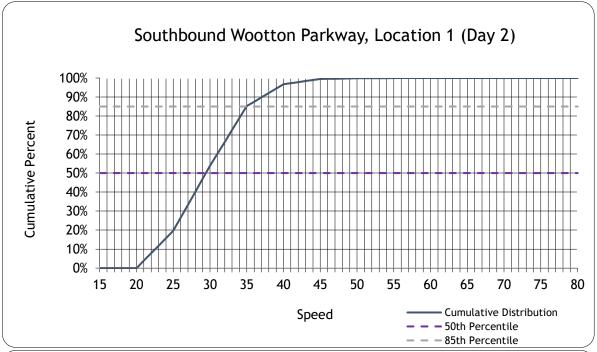
Counted By: Gorove Slade
Posted Speed Limit: 35 MPH
Types of Vehicles: All Vehicles

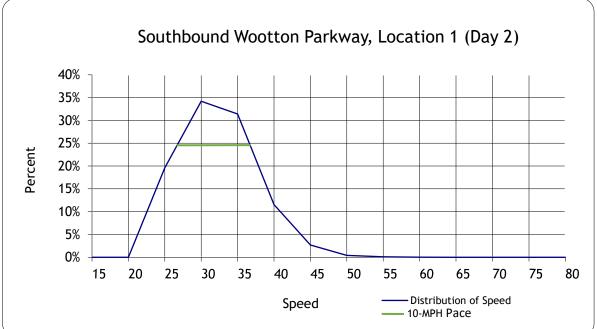
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 24 hours
Direction: SB

Lowest Recorded Speed: 25 mph 15th Percentile: 24 mph
Highest Recorded Speed: 45 mph 50th Percentile: 29 mph
Average Speed: 32 mph 85th Percentile: 35 mph
Vehicles Observed: 3508 95th Percentile: 39 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	688	20%
30	1200	34%
35	1102	31%
40	405	12%
45	94	3%
50	14	0%
55	4	0%
60	1	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Total Vehicles

Street: Wootton Parkway n. of Hurley

Capture Zone: Local

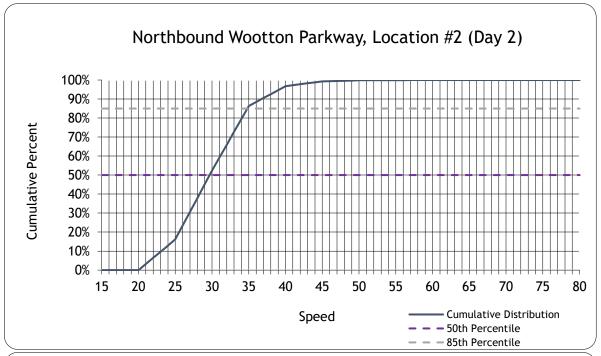
**Counted By: Gorove Slade** Posted Speed Limit: 35 MPH Types of Vehicles: All Vehicles

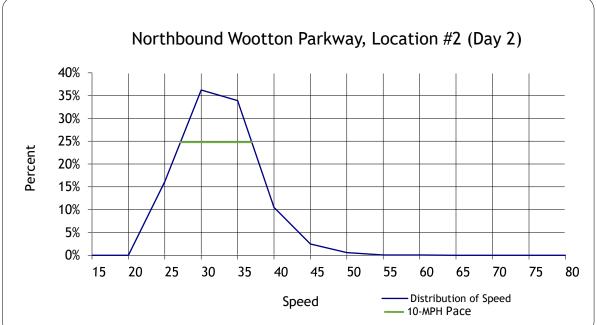
Weather Conditions:

Date: 1/10/2023 Day: Tuesday Time Range: 24 hours Direction: NB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 32 mph 85th Percentile: 35 mph : 3712 Vehicles Observed 95th Percentile: 39 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	599	16%
30	1345	36%
35	1259	34%
40	390	11%
45	92	2%
50	22	1%
55	3	0%
60	2	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway n. of Hurley

Capture Zone: Local

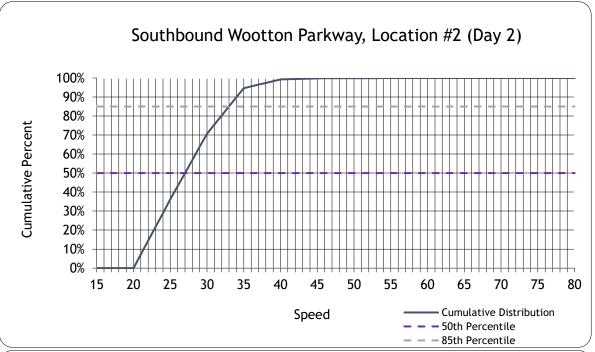
Counted By: Gorove Slade Posted Speed Limit: 35 MPH Types of Vehicles: All Vehicles

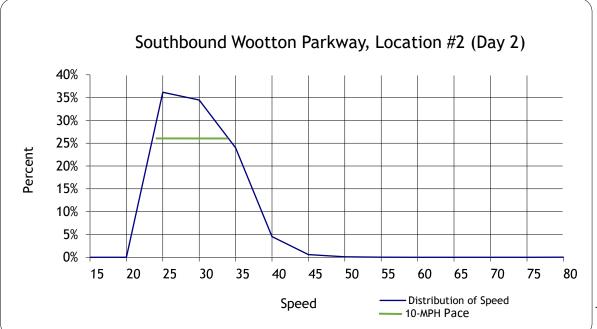
Weather Conditions:

Date: 1/10/2023 Day: Tuesday Time Range: 24 hours Direction: SB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 30 mph 85th Percentile: 33 mph : 3168 Vehicles Observed 95th Percentile: mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	1146	36%
30	1093	35%
35	761	24%
40	144	5%
45	19	1%
50	3	0%
55	1	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	1	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

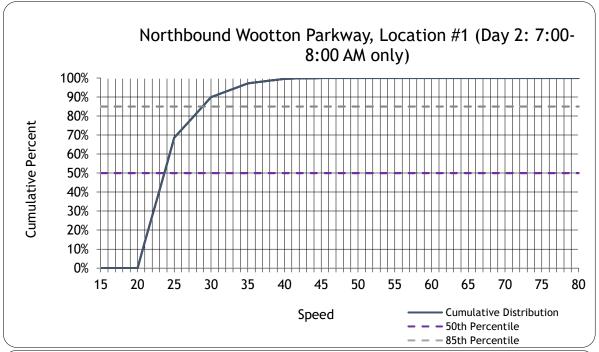
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

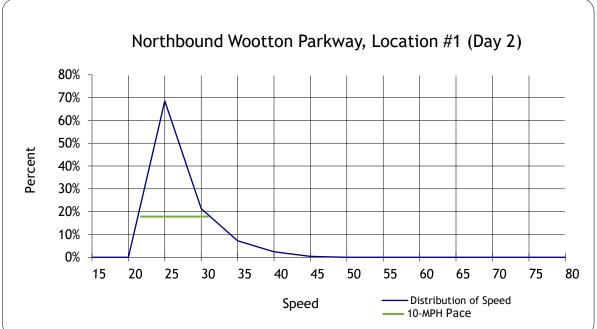
Weather Conditions:

Date: 12/20/2022
Day: Tuesday
Time Range: 1 Hour
Direction: NB

Lowest Recorded Speed: 25 mph 15th Percentile: 21 mph
Highest Recorded Speed: 45 mph 50th Percentile: 24 mph
Average Speed: 27 mph 85th Percentile: 29 mph
Vehicles Observed: 248 95th Percentile: 34 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	170	69%
30	53	21%
35	18	7%
40	6	2%
45	1	0%
50	0	0%
55	0	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

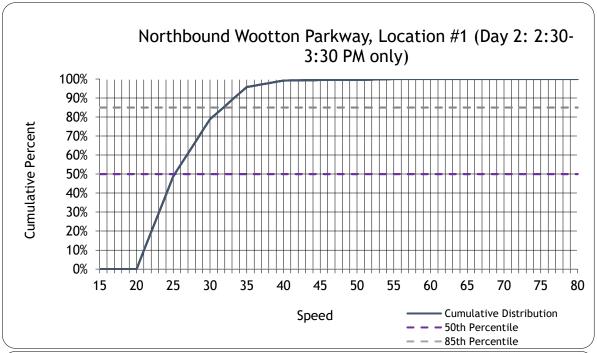
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

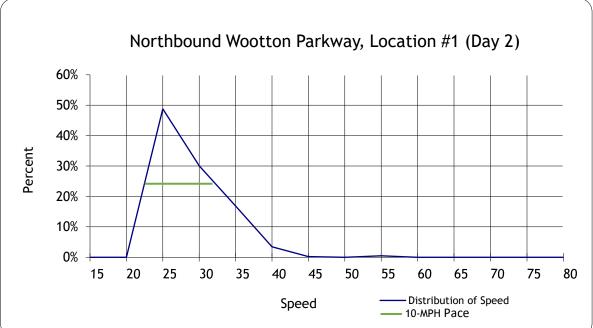
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: NB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 29 mph 85th Percentile: 32 mph Vehicles Observed : 379 95th Percentile: mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	185	49%
30	114	30%
35	64	17%
40	13	3%
45	1	0%
50	0	0%
55	2	1%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

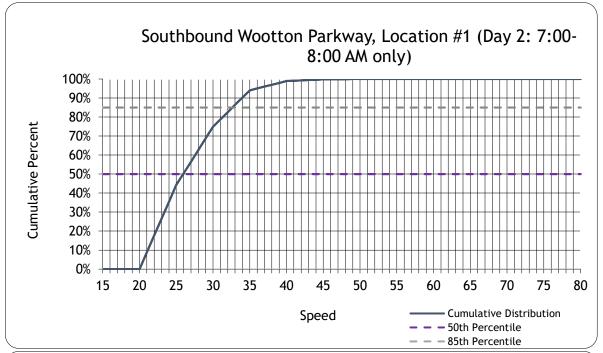
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

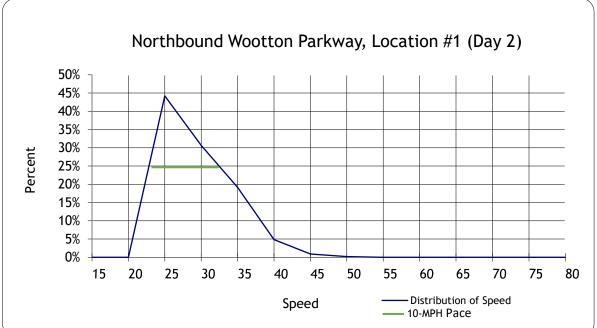
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: SB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 29 mph 85th Percentile: 33 mph Vehicles Observed : 554 95th Percentile: mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	245	44%
30	170	31%
35	106	19%
40	27	5%
45	5	1%
50	1	0%
55	0	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

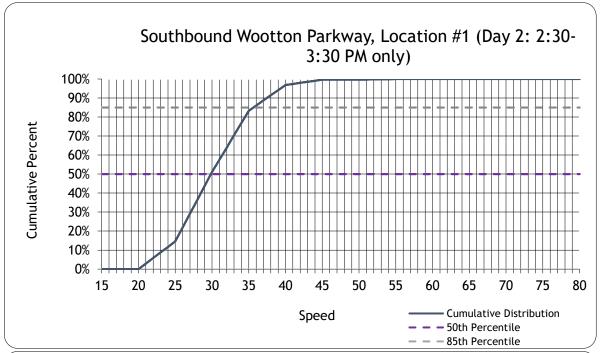
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

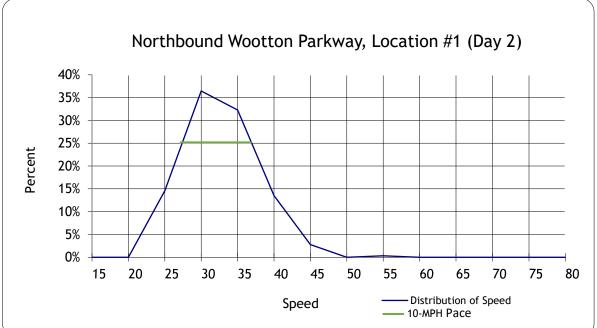
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: SB

Lowest Recorded Spee	d:25	mph	15th Percentile:	25	mph
Highest Recorded Spee	ed: 45	mph	50th Percentile:	30	mph
Average Speed	: 33	mph	85th Percentile:	36	mph
Vehicles Observed	: 288		95th Percentile:	39	mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	42	15%
30	105	36%
35	93	32%
40	39	14%
45	8	3%
50	0	0%
55	1	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

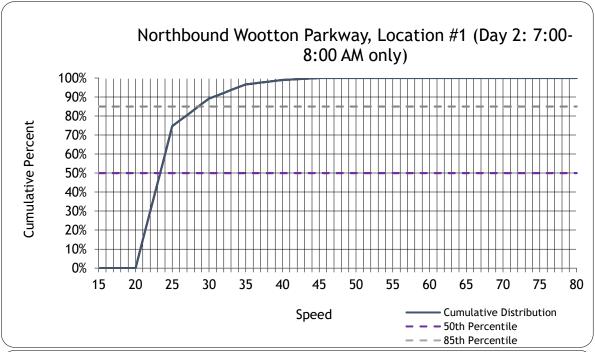
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

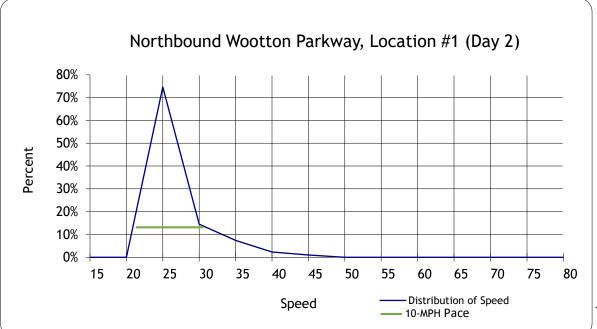
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: NB

Lowest Recorded Speed: 25 mph 15th Percentile: 21 mph
Highest Recorded Speed: 45 mph 50th Percentile: 23 mph
Average Speed: 27 mph 85th Percentile: 29 mph
Vehicles Observed: 296 95th Percentile: 34 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	221	75%
30	43	15%
35	22	7%
40	7	2%
45	3	1%
50	0	0%
55	0	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

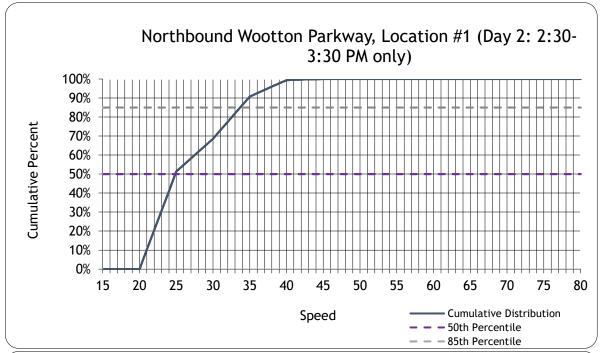
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

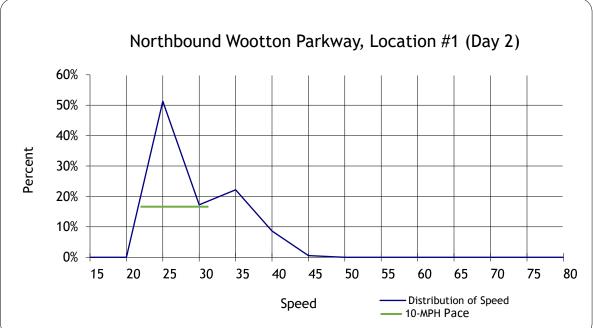
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: NB

Lowest Recorded Speed: 25 15th Percentile: mph **Highest Recorded Speed: 45** 50th Percentile: mph Average Speed : 29 mph 85th Percentile: 34 mph Vehicles Observed : 347 95th Percentile: mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	178	51%
30	60	17%
35	77	22%
40	30	9%
45	2	1%
50	0	0%
55	0	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

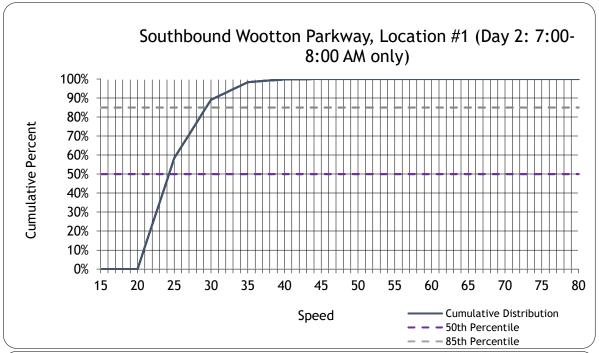
Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

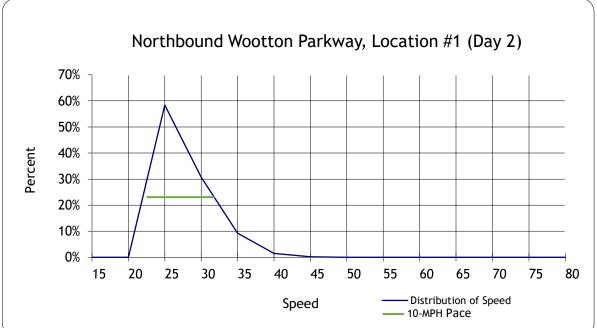
Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: SB

Lowest Recorded Speed: 25 mph 15th Percentile: 21 mph
Highest Recorded Speed: 45 mph 50th Percentile: 24 mph
Average Speed: 28 mph 85th Percentile: 29 mph
Vehicles Observed: 596 95th Percentile: 33 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	348	58%
30	183	31%
35	55	9%
40	9	2%
45	1	0%
50	0	0%
55	0	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%





Street: Wootton Parkway s. of Hurley & site driveway

Capture Zone: Local

Counted By: Gorove Slade
Posted Speed Limit: 25 MPH
Types of Vehicles: All Vehicles

Weather Conditions:

Date: 1/10/2023
Day: Tuesday
Time Range: 1 Hour
Direction: SB

Lowest Recorded Speed: 25 mph 15th Percentile: 23 mph
Highest Recorded Speed: 45 mph 50th Percentile: 28 mph
Average Speed: 31 mph 85th Percentile: 34 mph
Vehicles Observed: 310 95th Percentile: 38 mph

SPEED	COUNT	PERCENT
15	0	0%
20	0	0%
25	83	27%
30	121	39%
35	77	25%
40	24	8%
45	5	2%
50	0	0%
55	0	0%
60	0	0%
65	0	0%
70	0	0%
75	0	0%
80	0	0%

