

TRAFFIC IMPACT STUDY

For

**Rocky Mountain Calvary Chapel - Ellicott
El Paso County, Colorado**
PCD File No. PPR2420

May 2024
Revised April 2025
Revised May 2025

Prepared for:

Rocky Mountain Calvary Chapel, Inc.
4285 N Academy Boulevard
Colorado Springs, Colorado 80918

Prepared by:



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Fred Lantz, PE



24-032138

Traffic Engineer's Statement

The attached traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



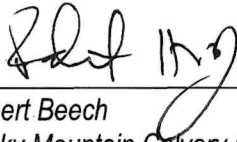
04/09/2025

Fred Lantz, P.E. #23410

Date

Developer's Statement

I, the Developer, have read and will comply with all commitments made on my behalf within this report.



4-24-25

Robert Beech
Rocky Mountain Calvary Chapel, Inc.
4285 N Academy Boulevard
Colorado Springs, Colorado 80918

Date

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I. Introduction

Project Overview

This traffic impact study is provided as a planning document and addresses the capacity, geometric, and control requirements associated with the development entitled Rocky Mountain Calvary Chapel - Ellicott. This analysis was prepared in accordance with Appendix B of the El Paso County Engineering Criteria Manual (ECM)¹.

This proposed institutional/religious development consists of a church building. The development is located within Lot 1 of the Rocky Mountain Calvary Church Ellicott Subdivision at 2150 N Ellicott Highway in El Paso County, Colorado.

Study Area Boundaries

The study area to be examined in this analysis encompasses the N Ellicott Highway intersections with State Highway 94 and Big Springs Road, and includes proposed site access drive.

Figure 1 illustrates location of the site and study intersections.

Site Description

Land within Lot 1 of the Rocky Mountain Calvary Church Ellicott Subdivision is partially vacant, with the eastern region being occupied by an existing church building approximately 3,600 square feet in size. The development site is surrounded by a mix of commercial, institutional, and residential land uses.

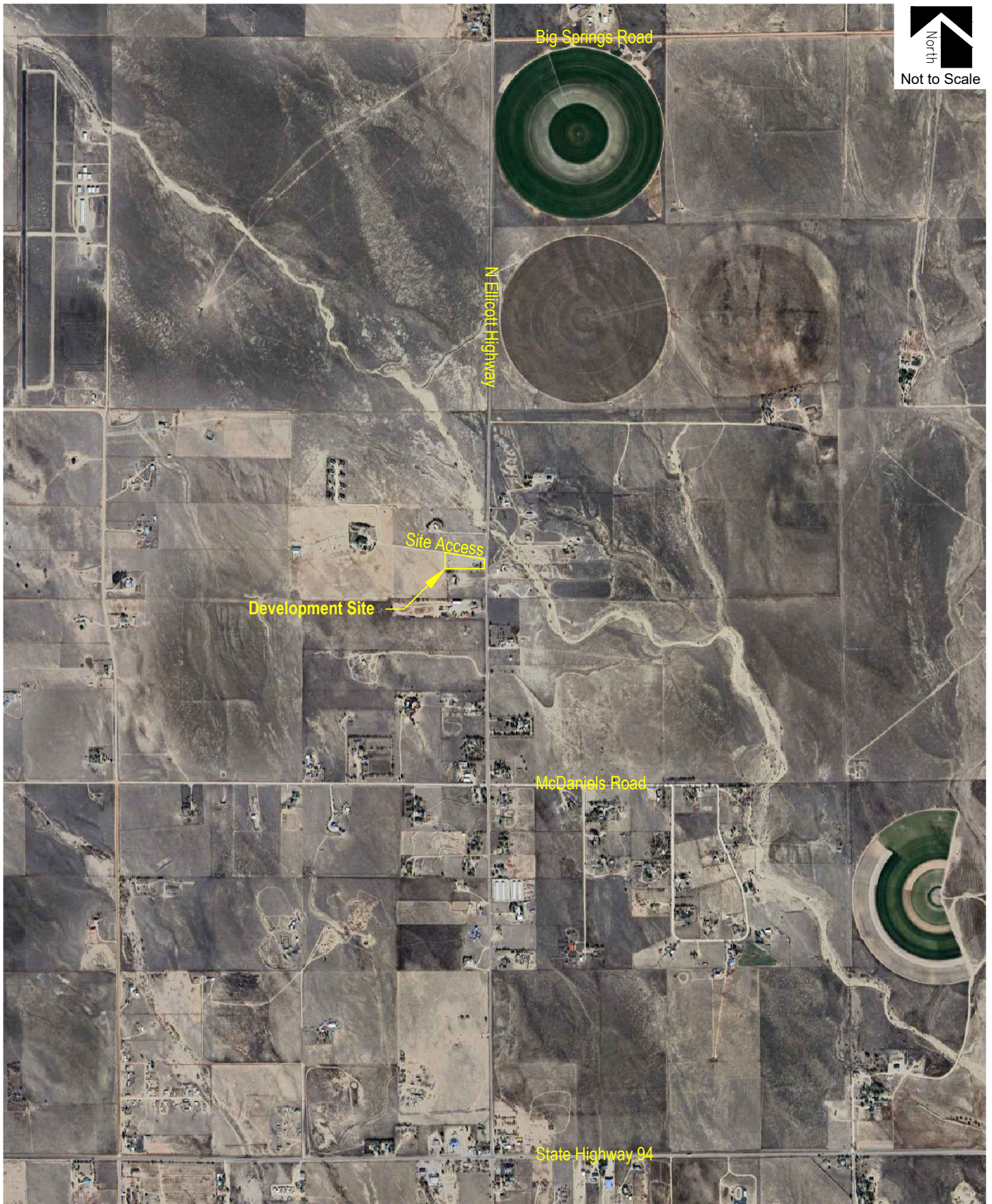
The proposed development is understood to entail the new construction of an approximate 10,000 square foot church building to serve as an extension to the existing 3,600 square foot church. Through client correspondence, it is understood that the maximum capacity of the overall Rocky Mountain Calvary Chapel will not increase as the proposed expansion is intended to host congregations currently being held in the existing building.

Existing access to the development is shared and provided via one full-movement access onto N Ellicott Highway (referred to as Site Access).

For purposes of this study, it is anticipated that development construction would be completed by end of Year 2026.

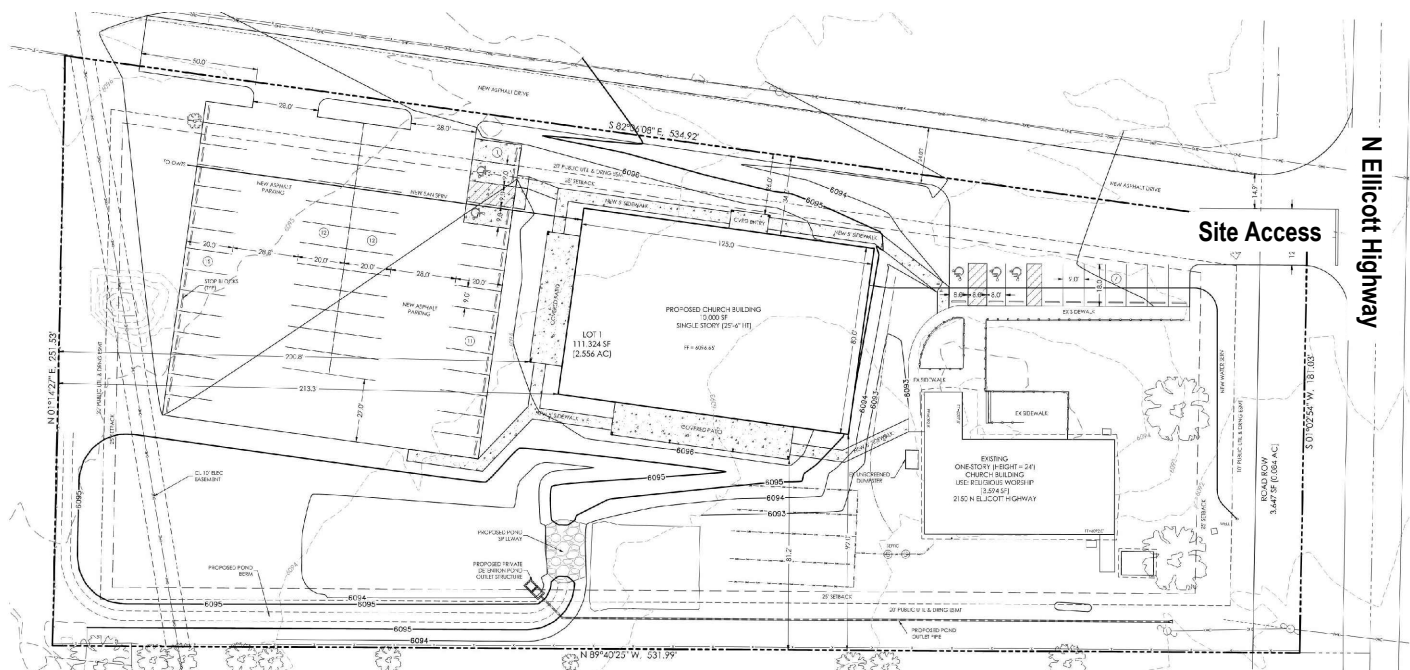
General site and access locations are shown in Figure 1. A site plan, as prepared by M.V.E., Inc., is shown in Figure 2. This plan is provided for illustrative purposes only.

¹ El Paso County Engineering Criteria Manual, El Paso County, January 2025.



Not to Scale





Existing and Committed Surface Transportation Network

Within the study area, N Ellicott Highway is the primary roadway that will accommodate traffic to and from the proposed development. The secondary roadways include Big Springs Road and State Highway 94. A brief description of each roadway, based on the County's Major Transportation Corridors Plan (MTCP)² and the County's ECM, is provided below:

N Ellicott Highway is a north-south, rural, major collector roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersections within the study area. N Ellicott Highway provides a posted speed limit of 55 MPH in either direction.

Big Springs Road is an east-west rural, minor collector, gravel roadway having two through lanes (one lane in each direction) with shared turn lanes at the intersection within the study area. Big Springs Road does not provide a posted speed limit within the study area. In accordance with Table 2-5 of the County's ECM, Big Springs Road is assumed to be further classified as a minor collector roadway accommodating a design speed of 35 MPH.

State Highway 94 is an east-west, principal arterial, state roadway having two through lanes (one lane in each direction) with a combination of shared and exclusive turn lanes at the intersection within the study area. The Colorado Department of Transportation (CDOT) categorizes the adjacent segment of State Highway 94, east and west of N Ellicott Highway, as a Regional Highway (R-A) and a Non-Rural Principal Highway (NR-A), respectively, and provides a posted speed limit of 45 MPH in either direction.

All study intersections operate under a stop-controlled condition. A stop-controlled intersection is defined as a roadway intersection where vehicle rights-of-way are controlled by one or more "STOP" signs.

No regional or specific improvements for the above-described roadways are known to be planned or committed at this time.

² El Paso County Major Transportation Corridors Plan Update, El Paso County, July 2024.

II. Existing Traffic Conditions

Morning (AM), afternoon (PM), and Sunday peak hour traffic counts were collected at the N Ellicott Highway intersections with Big Springs Road, Site Access, and State Highway 94. Average daily traffic (ADT) volumes were collected over a 24-hour period on a typical weekday and Sunday along N Ellicott Highway. Weekday counts were collected on Tuesday, April 23, 2024, with AM peak hour counts being collected during the period of 7:00 a.m. to 9:00 a.m. and PM peak hour counts being collected during the period of 4:00 p.m. to 6:00 p.m. Sunday counts were collected on April 21, 2024, with peak hour counts being represented during the period of 11:00 a.m. to 1:00 p.m.

Existing volumes and intersection geometry are shown in Figure 3. Traffic count data is included for reference in Appendix A.



Not to Scale

Big Springs Road

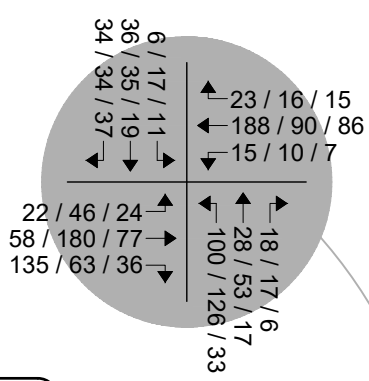
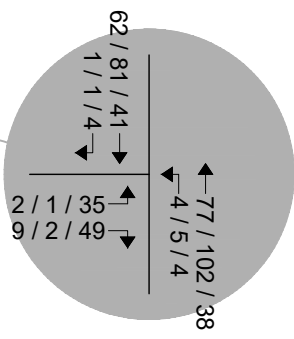
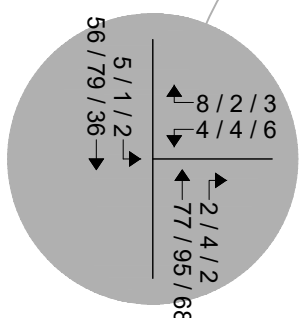
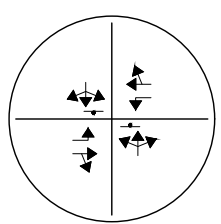
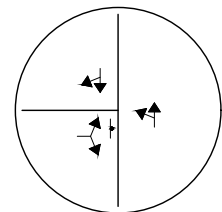
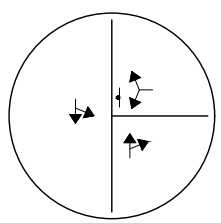
N Ellicott Highway

94

Site Access



(1,660 / 1,135)



LEGEND

- Study Intersection Volumes
- Study Intersection Lane Geometry
- Development Site

Figure 3

EXISTING TRAFFIC

Volumes & Intersection Geometry
AM / PM / Sunday Peak Hour

(ADT) : Weekday / Sunday Average Daily Traffic



ROCKY MOUNTAIN CALVARY CHAPEL - ELLICOTT

Traffic Impact Study

SM ROCHA, LLC

Traffic and Transportation Consultants

May 2025

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Peak Hour Intersection Levels of Service – Existing Traffic

The Unsignalized Intersection Analysis techniques, as published in the Highway Capacity Manual (HCM), 6th Edition, by the Transportation Research Board and as incorporated into the SYNCHRO computer program, was used to analyze the study intersections for existing and future traffic conditions. This nationally accepted technique allows for the determination of intersection level of service (LOS) based on the congestion and delay of each traffic movement.

Pursuant to Section B.4.1.A of the County’s ECM, the design objective for each scenario of this study shall be level of service “D”. Level of service is a method of measurement used by transportation professionals to quantify a driver’s perception of travel conditions that include travel time, number of stops, and total amount of stopped delay experienced on a roadway network. The HCM categorizes level of service into a range from “A” which indicates little, if any, vehicle delay, to “F” which indicates a level of operation considered unacceptable to most drivers. These levels of service grades with brief descriptions of the operating condition, for unsignalized and signalized intersections, are included for reference in Appendix B and have been used throughout this study.

The level of service analyses results for existing conditions are summarized in Table 1.

Intersection capacity worksheets developed for this study are provided in Appendix C.

Table 1 – Intersection Capacity Analysis Summary – Existing Traffic

INTERSECTION LANE GROUPS	LEVEL OF SERVICE		
	AM PEAK HOUR	PM PEAK HOUR	SUNDAY PEAK
N Ellicott Highway / Big Springs Road (Stop-Controlled)			
Westbound Left and Right	A	A	A
Southbound Left and Through	A	A	A
N Ellicott Highway / Site Access (Stop-Controlled)			
Eastbound Left and Right	A	A	A
Northbound Left and Through	A	A	A
N Ellicott Highway / State Highway 94 (Stop-Controlled)			
Eastbound Left	A	A	A
Westbound Left	A	A	A
Northbound Left, Through and Right	C	C	B
Southbound Left, Through and Right	B	B	B

Key: Stop-Controlled Intersection: Level of Service

Existing Traffic Analysis Results

Under existing conditions, Table 1 illustrates how the stop-controlled intersections within the study area have turning movement operations at or better than LOS C during the morning, afternoon, and Sunday peak traffic hours.

III. Future Traffic Conditions Without Proposed Development

Background traffic is the traffic projected to be on area roadways without consideration of the proposed development. Background traffic includes traffic generated by development of vacant parcels in the area.

To account for projected increases in background traffic for Years 2026 and 2040, a compounded annual growth rate was determined using historical traffic data provided by CDOT's Online Transportation Information System (OTIS) along the adjacent segment of State Highway 94, which anticipates a 20-year growth rate between one and two percent. Therefore, in order to provide for a conservative analysis, a growth rate of two percent was applied to existing traffic volumes.

Pursuant to the area roadway improvements discussed in Section I, Year 2026 and Year 2040 background traffic conditions assume no roadway improvements to accommodate regional transportation demands. This assumption continues to allow for a conservative analysis.

Background Traffic Auxiliary Lane Analysis

Auxiliary lanes for the intersection of N Ellicott Highway and State Highway 94 were evaluated, using Year 2027 and 2045 background traffic volumes, and are to be based on CDOT's State Highway Access Code (SHAC)³.

By Year 2045, an evaluation of auxiliary lane requirements, pursuant to Section 3.8(5)(a) of CDOT's SHAC, reveals that a westbound to northbound right turn deceleration lane at N Ellicott Highway along State Highway 94 is warranted since the westbound right turn volume exceeds CDOT's threshold of 25 vehicles per hour (vph).

Additionally, by Year 2045, an evaluation of auxiliary lane requirements, pursuant to Section 3.8(5)(c) of CDOT's SHAC, reveals that a southbound to westbound right turn acceleration lane at N Ellicott Highway along State Highway 94 is warranted since the southbound right turn volumes exceed CDOT's threshold of 50 vph.

Projected background traffic volumes and intersection geometry for Years 2026 and 2040 are shown on Figure 4 and Figure 5, respectively.

³ State Highway Access Code, The Transportation Commission of Colorado, March 2002.



Not to Scale

Big Springs Road

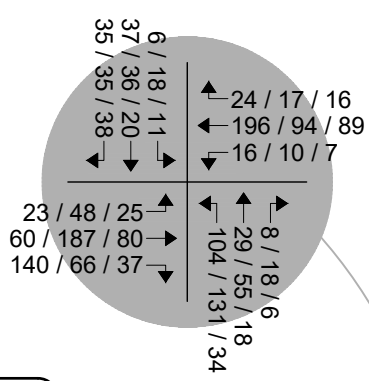
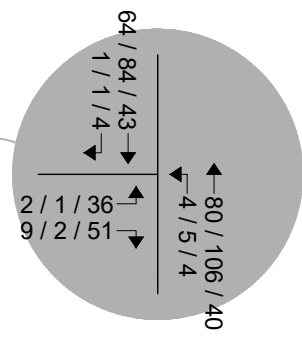
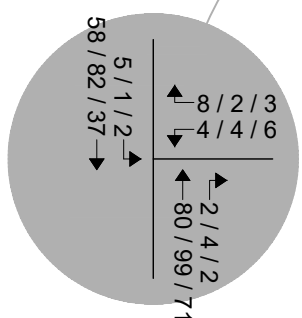
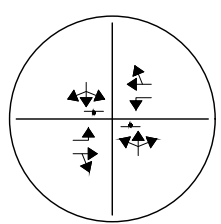
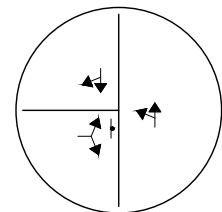
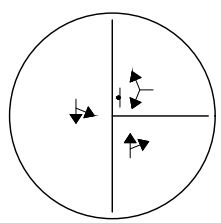
N Ellicott Highway

94

Site Access



(1,730 / 1,180)



LEGEND




-  Study Intersection Volumes
-  Study Intersection Lane Geometry
-  Development Site

Figure 4
BACKGROUND TRAFFIC - YEAR 2026
 Volumes & Intersection Geometry
 AM / PM / Sunday Peak Hour
 (ADT) : Weekday / Sunday Average Daily Traffic

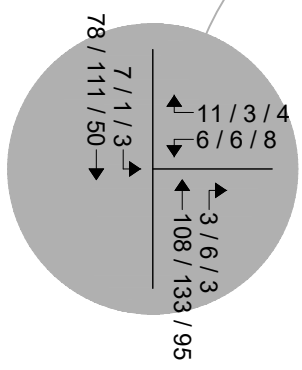
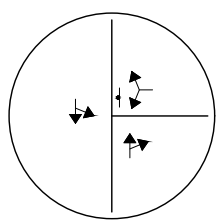


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Big Springs Road

N Ellicott Highway

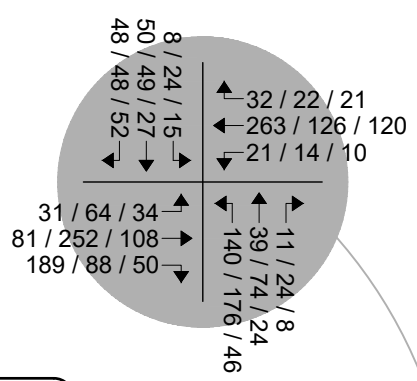
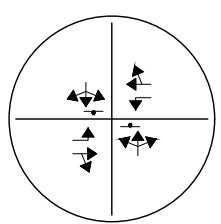
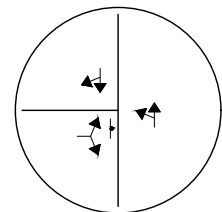
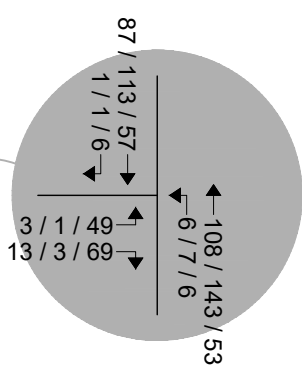
94



Site Access



(2,330 / 1,590)



LEGEND

- Study Intersection Volumes
- Study Intersection Lane Geometry
- Development Site

Figure 5
BACKGROUND TRAFFIC - YEAR 2040
 Volumes & Intersection Geometry
 AM / PM / Sunday Peak Hour
 (ADT) : Weekday / Sunday Average Daily Traffic

Peak Hour Intersection Levels of Service – Background Traffic

As with existing traffic conditions, the operations of study intersections were analyzed under background conditions, without the proposed development, using the SYNCHRO computer program.

Background traffic level of service analysis results for Year 2026 are listed in Table 2. Year 2040 operational results are summarized in Table 3.

Definitions of levels of service are given in Appendix B. Intersection capacity worksheets are provided in Appendix C.

Table 2 – Intersection Capacity Analysis Summary – Background Traffic – Year 2026

INTERSECTION LANE GROUPS	LEVEL OF SERVICE		
	AM PEAK HOUR	PM PEAK HOUR	SUNDAY PEAK
N Ellicott Highway / Big Springs Road (Stop-Controlled) Westbound Left and Right Southbound Left and Through	A A	A A	A A
N Ellicott Highway / Site Access (Stop-Controlled) Eastbound Left and Right Northbound Left and Through	A A	A A	A A
N Ellicott Highway / State Highway 94 (Stop-Controlled) Eastbound Left Westbound Left Northbound Left, Through and Right Southbound Left, Through and Right	A A C B	A A C B	A A B B

Key: Stop-Controlled Intersection: Level of Service

Background Traffic Analysis Results – Year 2026

Year 2026 background traffic analysis indicates that the unsignalized intersection of N Ellicott Highway and Big Springs Road continues to project turning movement operations at LOS A during the AM, PM, and Sunday peak traffic hours.

The unsignalized intersection of N Ellicott Highway and Site Access continues to anticipate turning movement area operations at LOS A during the AM, PM, and Sunday peak traffic hours.

The stop-controlled intersection of N Ellicott Highway and State Highway 94 continues to project turning movement operations at LOS C or better during the AM and PM peak traffic hours and LOS B or better during the Sunday peak traffic hour.

Table 3 – Intersection Capacity Analysis Summary – Background Traffic – Year 2040

INTERSECTION LANE GROUPS	LEVEL OF SERVICE		
	AM PEAK HOUR	PM PEAK HOUR	SUNDAY PEAK
N Ellicott Highway / Big Springs Road (Stop-Controlled)			
Westbound Left and Right	A	A	A
Southbound Left and Through	A	A	A
N Ellicott Highway / Site Access (Stop-Controlled)			
Eastbound Left and Right	A	A	A
Northbound Left and Through	A	A	A
N Ellicott Highway / State Highway 94 (Stop-Controlled)			
Eastbound Left	A	A	A
Westbound Left	A	A	A
Northbound Left, Through and Right	D	F	B
Southbound Left, Through and Right	C	C	B

Key: Stop-Controlled Intersection: Level of Service

Background Traffic Analysis Results – Year 2040

By Year 2040 and without the proposed development, the unsignalized intersection of N Ellicott Highway and Big Springs Road continues to experience LOS A operations during the AM, PM, and Sunday peak traffic hours.

The stop-controlled intersection of N Ellicott Highway and Site Access continues to project turning movement operations at LOS A during the AM, PM, and Sunday peak traffic hours.

The unsignalized intersection of N Ellicott Highway and State Highway 94 anticipates turning movement operations at LOS D or better during the morning peak traffic hour, LOS C or better during the afternoon peak traffic hour, and LOS B or better during the Sunday peak traffic hour. Exceptions would include the northbound shared turning movement which operates at LOS F during the afternoon peak traffic hour. The LOS F operation is attributed to regional growth projections along State Highway 94 and the stop-controlled nature of the intersection. To successfully mitigate poor operations, modifying the intersection control to all-way stop-control, if warranted by the latest version of the Manual on Uniform Traffic Control Devices (MUTCD)⁴, is predicted to allow for LOS C or better operations.

It is to be noted that it is not uncommon for unsignalized movements to or from an arterial roadway, in urban areas, to operate with noticeable delays during peak traffic hours. It is, however, likely that turn movements will operate better than the results obtained with this HCM Two-Way Stop-Control (TWSC) level of service analysis would indicate, as the HCM analysis may not accurately account for the effect of vehicle platooning and gaps caused by upstream signals.

⁴ Manual on Uniform Traffic Control Devices, 11th Edition, Federal Highway Administration, December 2023.

IV. Proposed Project Traffic

Trip Generation

Standard traffic generation characteristics compiled by the Institute of Transportation Engineers (ITE) in their report entitled Trip Generation Manual, 11th Edition, were applied to the proposed land use in order to estimate average daily traffic (ADT), AM Peak Hour, PM Peak Hour, and Sunday Peak Hour vehicle trips. A vehicle trip is defined as a one-way vehicle movement from a point of origin to a point of destination.

The ITE land use code 560 (Church) was used for estimating trip generation because of its conservative rates and best fit to the existing and proposed land use descriptions within Lot 1 of the Rocky Mountain Calvary Church Ellicott Subdivision.

Trip generation rates used in this study are presented in Table 4.

Table 4 – Trip Generation Rates

ITE CODE LAND USE UNIT			TRIP GENERATION RATES										
			WEEKDAY						SUNDAY				
			24 HOUR	AM PEAK HOUR			PM PEAK HOUR			24 HOUR	PEAK HOUR OF GENERATOR		
	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	
560	Church	KSF	7.60	0.20	0.12	0.32	0.22	0.27	0.49	31.46	4.97	5.39	10.36

Key: KSF = Thousand Square Feet Gross Floor Area.
 Note: All data and calculations above are subject to being rounded to nearest value.

Table 5 illustrates projected ADT, AM Peak Hour, PM Peak Hour, and Sunday Peak Hour traffic volumes likely generated by the existing and proposed developments upon build-out of Lot 1 of the Rocky Mountain Calvary Church Ellicott Subdivision.

Table 5 – Trip Generation Summary

ITE CODE LAND USE SIZE			TOTAL TRIPS GENERATED										
			WEEKDAY						SUNDAY				
			24 HOUR	AM PEAK HOUR			PM PEAK HOUR			24 HOUR	PEAK HOUR OF GENERATOR		
	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	
<u>Site Development - Existing</u>													
560	Church	3.6 KSF	27	1	0	1	1	1	2	113	18	19	37
<i>Existing Total:</i>			27	1	0	1	1	1	2	113	18	19	37
<u>Site Development - Proposed</u>													
560	Church	10.0 KSF	76	2	1	3	2	3	5	315	50	54	104
<i>Proposed Total:</i>			76	2	1	3	2	3	5	315	50	54	104
Total:			103	3	2	4	3	4	7	428	68	73	141

Key: KSF = Thousand Square Feet Gross Floor Area.
 Note: All data and calculations above are subject to being rounded to nearest value.

During the weekday and upon build-out, Table 5 illustrates that Lot 1 of the subdivision has the potential to generate approximately 103 daily vehicle trips with 4 of those occurring during the morning peak hour and 7 during the afternoon peak hour. Compared to the existing land use, this represents a potential increase in site traffic generation of approximately 76 daily trips with 3 of those occurring during the morning peak hour and 5 during the afternoon peak hour.

During Sunday and upon build-out, Table 5 illustrates that Lot 1 of the subdivision has the potential to generate approximately 428 daily vehicle trips with 141 of those occurring during the Sunday peak hour. Compared to the existing land use, this represents a potential increase in site traffic generation of approximately 315 daily trips with 104 of those occurring during the Sunday peak hour.

In discussion with the developer and as discussed previously, it is emphasized that the overall capacity of Rocky Mountain Calvary Chapel will not change upon completion of the proposed building expansion. As such, no additional trips are expected to be generated.

In comparison of existing site-generated trips as shown in Figure 3 to ITE's site-generated trip estimates shown in Table 5, it is determined that ITE's estimates provide for a slightly more conservative analysis. Therefore, use of ITE's estimates will be applied.

Adjustments to Trip Generation Rates

A development of this type is not likely to attract trips from within area land uses nor pass-by or diverted link trips from the adjacent roadway system, therefore no trip reduction was taken in this analysis.

Trip Distribution

The overall directional distribution of site-generated traffic was determined based on the location of development site within the County, proposed and existing area land uses, allowed turning movements, available roadway network, existing turning movement, in reference to distribution patterns of existing traffic count data, and in reference to historical traffic count data provided by CDOT's Traffic Count Database System (TCDS)⁵.

Overall trip distribution patterns for weekday and Sunday of the development are shown in Figures 6a and 6b, respectively.

Trip Assignment

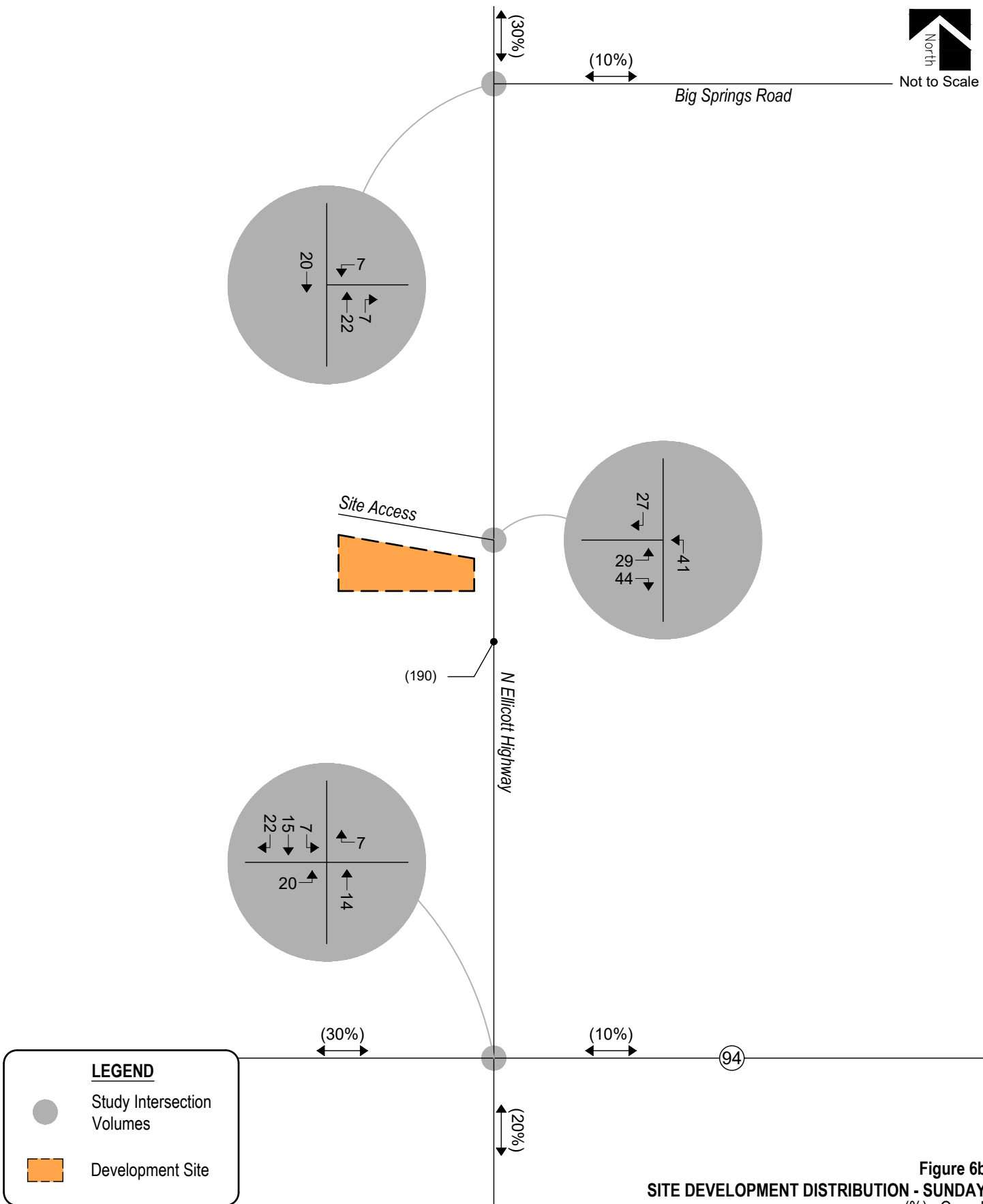
Trip assignment is how generated and distributed vehicle trips are expected to be loaded onto the available roadway network.

Applying trip distribution patterns to ITE's site-generated traffic provides the overall site-generated trip assignments for weekday and Sunday shown in Figures 6a and 6b, respectively.

⁵ Transportation Data Management System, MS2, 2022.



Not to Scale



V. Future Traffic Conditions With Proposed Developments

Total traffic is the traffic projected to be on area roadways with consideration of the proposed development. Total traffic includes background traffic projections for Years 2026 and 2040 with consideration of site-generated traffic. For analysis purposes, it was assumed that development construction would be completed by end of Year 2026.

It is again emphasized that the proposed expansion will not increase the overall capacity of Rocky Mountain Calvary Chapel. With this understanding, since ITE's site-generated trip estimates provide slightly more conservative numbers as described previously, ingress and egress turning movements at Site Access were replaced with ITE's estimates. Because of this conservative approach, traffic volumes at the adjacent study area intersections were balanced to better match those at the Site Access intersection with N Ellicott Highway.

Pursuant to area roadway improvement discussions provided in Section III, Year 2026 and Year 2040 total traffic conditions assume no roadway improvements to accommodate regional transportation demands. Roadway improvements associated with site development are expected to be limited to site access and frontage as required by the governing agency.

Projected Year 2026 total traffic volumes and intersection geometry are shown in Figure 7.

Figure 8 shows projected total traffic volumes and intersection geometry for Year 2040.

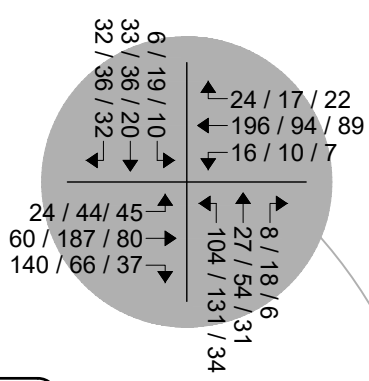
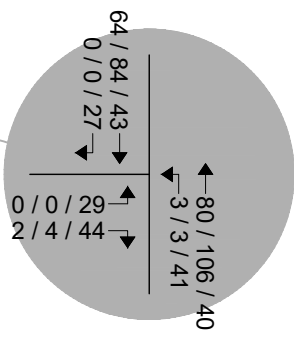
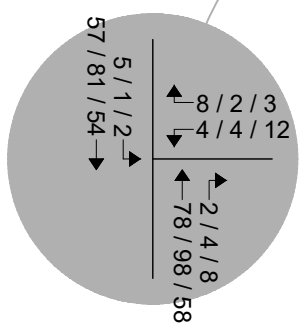
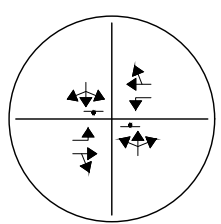
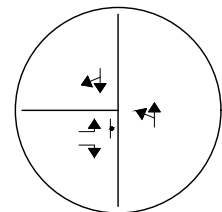
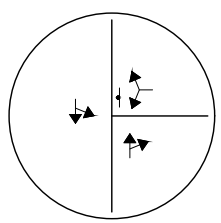


Not to Scale

Big Springs Road

N Ellicott Highway

94



Site Access



(1,800 / 1,370)

LEGEND

- Study Intersection Volumes
- Study Intersection Lane Geometry
- Development Site

Figure 7
TOTAL TRAFFIC - YEAR 2026
 Volumes & Intersection Geometry
 AM / PM / Sunday Peak Hour
 (ADT) : Weekday / Sunday Average Daily Traffic



Not to Scale

Big Springs Road

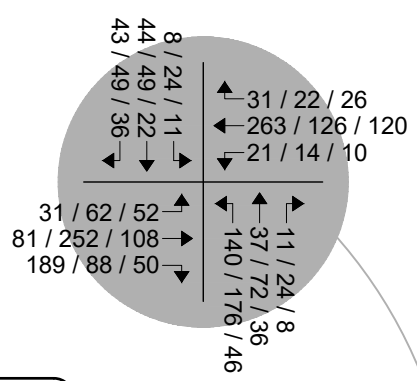
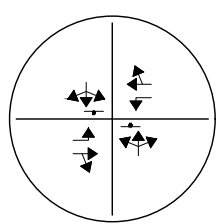
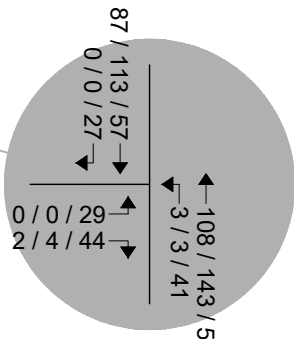
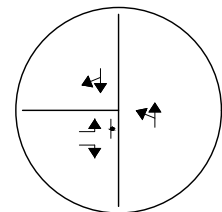
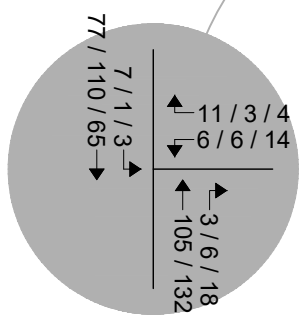
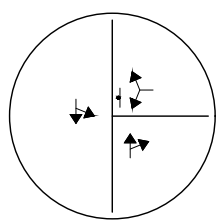
N Ellicott Highway

94

Site Access



(2,400 / 1,780)



LEGEND




-  Study Intersection Volumes
-  Study Intersection Lane Geometry
-  Development Site

Figure 8
TOTAL TRAFFIC - YEAR 2040
 Volumes & Intersection Geometry
 AM / PM / Sunday Peak Hour
 (ADT) : Weekday / Sunday Average Daily Traffic

VI. Project Impacts

The analyses and procedures described in this study were performed in accordance with the latest HCM and are based upon the worst-case conditions that occur during a typical weekday and Sunday upon build-out of site development and analyzed land uses. Therefore, study intersections are likely to operate with traffic conditions better than those described within this study.

Peak Hour Intersection Levels of Service – Total Traffic

As with background traffic, the operations of the study intersections were analyzed under projected total traffic conditions using the SYNCHRO computer program. Total traffic level of service analysis results for Years 2026 and 2040 are summarized in Table 6 and Table 7, respectively.

Definitions of levels of service are given in Appendix B. Intersection capacity worksheets are provided in Appendix C.

Table 6 – Intersection Capacity Analysis Summary – Total Traffic – Year 2026

INTERSECTION LANE GROUPS	LEVEL OF SERVICE		
	AM PEAK HOUR	PM PEAK HOUR	SUNDAY PEAK
N Ellicott Highway / Big Springs Road (Stop-Controlled)			
Westbound Left and Right	A	A	A
Southbound Left and Through	A	A	A
N Ellicott Highway / Site Access (Stop-Controlled)			
Eastbound Left	A	A	A
Eastbound Right	A	A	A
Northbound Left and Through	A	A	A
N Ellicott Highway / State Highway 94 (Stop-Controlled)			
Eastbound Left	A	A	A
Westbound Left	A	A	A
Northbound Left, Through and Right	C	C	B
Southbound Left, Through and Right	B	B	B

Key: Stop-Controlled Intersection: Level of Service

Table 7 – Intersection Capacity Analysis Summary – Total Traffic – Year 2040

INTERSECTION LANE GROUPS	LEVEL OF SERVICE		
	AM PEAK HOUR	PM PEAK HOUR	SUNDAY PEAK
N Ellicott Highway / Big Springs Road (Stop-Controlled)			
Westbound Left and Right	A	A	A
Southbound Left and Through	A	A	A
N Ellicott Highway / Site Access (Stop-Controlled)			
Eastbound Left	A	A	B
Eastbound Right	A	A	A
Northbound Left and Through	A	A	A
N Ellicott Highway / State Highway 94 (Stop-Controlled)			
Eastbound Left	A	A	A
Westbound Left	A	A	A
Northbound Left, Through and Right	D	F	B
Southbound Left, Through and Right	C	C	B

Key: Stop-Controlled Intersection: Level of Service

Total Traffic Analysis Results Upon Development Build-Out

Table 7 illustrates how, by Year 2040 and upon development build-out, the unsignalized intersection of N Ellicott Highway and Big Springs Road continues to project turning movement operations at LOS A during the morning, afternoon, and Sunday peak traffic hours.

The unsignalized intersection of N Ellicott Highway and Site Access is projected to have turning movement operations at LOS A during the morning and afternoon peak traffic hours and LOS B or better during the Sunday peak traffic hour.

The stop-controlled intersection of N Ellicott Highway and State Highway 94 is projected to have turning movement operations at LOS D or better for the morning peak traffic hour, LOS C or better during the afternoon peak traffic hour, and LOS B or better for the Sunday peak traffic hour. Exceptions still include the northbound turning movement which continues to operate at LOS F during the afternoon peak traffic hour. The LOS F operation continues to be attributed to regional growth projections along State Highway 94 and the stop-controlled nature of the intersection. Similar to background traffic conditions, implementing all-way stop-control for the intersection is anticipated to successfully mitigate poor intersection operations.

These intersection operations are similar to background conditions.

Queue Length Analysis

Queue lengths for the study intersections were analyzed using Year 2040 total traffic conditions. The analysis yields estimate of 95th percentile queue lengths, which have only a five percent probability of being exceeded during the analysis time period. An average vehicle length of 25 feet was assumed. Queue lengths were modeled and are included with the Synchro worksheets in Appendix C.

Table 8 summarizes the 95th percentile queue results in comparison to the projected storage requirements for turn movements within study area for Year 2040.

Table 8 – Turn Lane Queues and Storage Requirements – Total Traffic – Year 2040

Intersection	Turn Movement		Existing Turn Lane Length (feet)	AM Peak Hour		PM Peak Hour		Sunday Peak Hour		Recommended Turn Lane Length (feet)
				95th Percentile Queue Length (feet)	Vehicle Equivalent (vehicles)	95th Percentile Queue Length (feet)	Vehicle Equivalent (vehicles)	95th Percentile Queue Length (feet)	Vehicle Equivalent (vehicles)	
Stop-Controlled Intersections										
N Ellicott Highway / Big Springs Road	WB	L,R	-	3'	1	0'	0	3'	1	-
	NB	T,R	-	0'	0	0'	0	0'	0	-
	SB	L,T	-	0'	0	0'	0	0'	0	-
N Ellicott Highway / Site Access	EB	L	-	0'	0	0'	0	3'	1	-
		R	-	0'	0	0'	0	5'	1	-
	NB	L,T	-	0'	0	0'	0	3'	1	-
	SB	T,R	-	0'	0	0'	0	0'	0	-
N Ellicott Highway / State Highway 94	EB	L	145'	3'	1	5'	1	3'	1	145'
		T,R	-	0'	0	0'	0	0'	0	-
	WB	L	290'	3'	1	0'	0	0'	0	290'
		T,R	-	0'	0	0'	0	0'	0	-
	NB	L,T,R	-	98'	4	225'	9	18'	1	-
	SB	L,T,R	-	23'	1	33'	2	10'	1	-

Note: Turn Lane Length does not include taper length.

As Table 8 shows, all existing turn lane lengths at the stop-controlled intersections within the study area have sufficient storage to accommodate future traffic volumes.

VII. Conclusion

This traffic impact study addressed the capacity, geometric, and control requirements associated with the development entitled Rocky Mountain Calvary - Ellicott. This proposed institutional/religious development consists of an approximate 10,000 square foot church building within Lot 1 of the Rocky Mountain Calvary Church Ellicott Subdivision. The development is located at 2150 N Ellicott Highway in El Paso County, Colorado.

The study area to be examined in this analysis encompassed the N Ellicott Highway intersections with State Highway 94, Site Access, and Big Springs Road.

Analysis was conducted for critical AM Peak Hour, PM Peak Hour, and Sunday Peak Hour traffic operations for existing traffic conditions, Year 2026 and Year 2040 background traffic conditions, and Year 2026 and Year 2040 total traffic conditions.

Analysis of existing traffic conditions indicates that the unsignalized intersections within the study area have turning movement operations at LOS C or better during the morning, afternoon, and Sunday peak traffic hours.

Without the proposed development, Year 2026 background operational analysis shows that the unsignalized intersections within the study area continue to project turning movement operations at LOS C or better during the morning, afternoon, and Sunday peak traffic hours.

By Year 2040 and without the proposed development, the unsignalized intersections within the study area project turning movement operations at LOS D or better for the morning, afternoon, and Sunday peak traffic hour. Exceptions would include the northbound turning movement at N Ellicott Highway and State Highway 94 which operates at LOS F during the afternoon peak traffic hour. The LOS F operation is attributed to regional growth projections along State Highway 94 and the stop-controlled nature of the intersection. Introducing all-way stop-control for the intersection is anticipated to allow for acceptable intersection operations.

Analysis of future traffic conditions indicates that, with consideration for ITE's site-generated trip estimates, the proposed development expansion is expected to create no negative impact to traffic operations for the existing and surrounding roadway system upon roadway and intersection control improvements assumed within this analysis. With all conservative assumptions defined in this analysis, the study intersections are projected to operate at future levels of service comparable to Year 2040 background traffic conditions. Existing Site Access has long-term operations at LOS B or better during peak traffic periods and upon build-out.

APPENDIX A

Traffic Count Data

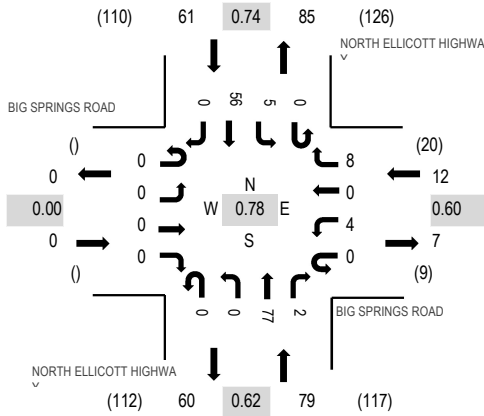
Location: 1 NORTH ELLICOTT HIGHWAY & BIG SPRINGS ROAD AM

Date: Tuesday, April 23, 2024

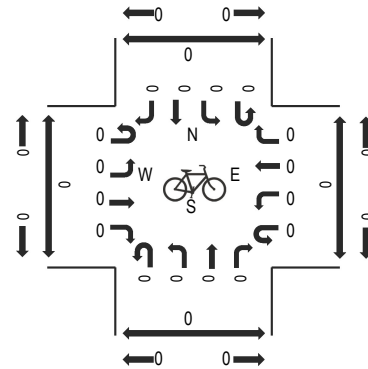
Peak Hour: 07:15 AM - 08:15 AM

Peak 15-Minutes: 07:30 AM - 07:45 AM

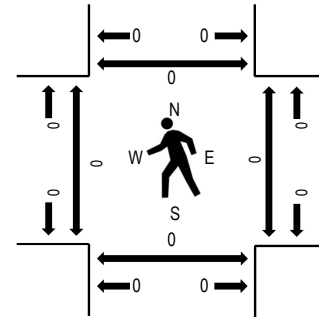
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	BIG SPRINGS ROAD				BIG SPRINGS ROAD				NORTH ELLICOTT HIGHWAY				NORTH ELLICOTT HIGHWAY				Total	Rolling Hour	Pedestrian Crossings				
	Eastbound				Westbound				Northbound				Southbound						West	East	South	North	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right							
7:00 AM	0	0	0	0	0	1	0	1	0	0	9	0	0	0	1	13	0	25	146	0	0	0	0
7:15 AM	0	0	0	0	0	2	0	1	0	0	7	0	0	0	1	19	0	30	152	0	0	0	0
7:30 AM	0	0	0	0	0	2	0	3	0	0	22	0	0	0	1	21	0	49	142	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	32	1	0	0	0	9	0	42	121	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	4	0	0	16	1	0	3	7	0	31	101	0	0	0	0	
8:15 AM	0	0	0	0	0	1	0	1	0	0	10	0	0	0	8	0	20		0	0	0	0	
8:30 AM	0	0	0	0	0	2	0	1	0	0	9	0	0	0	16	0	28		0	0	0	0	
8:45 AM	0	0	0	0	0	0	0	1	0	0	9	1	0	0	11	0	22		0	0	0	0	
Count Total	0	0	0	0	0	8	0	12	0	0	114	3	0	6	104	0	247		0	0	0	0	
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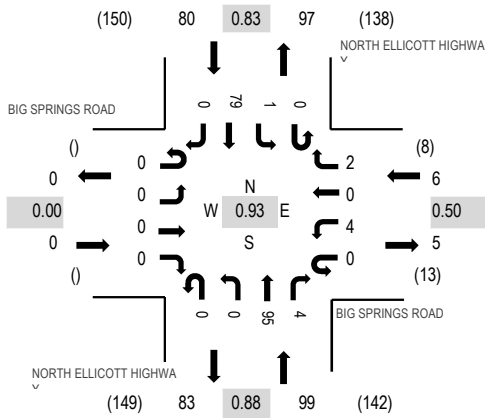
Location: 1 NORTH ELLICOTT HIGHWAY & BIG SPRINGS ROAD PM

Date: Tuesday, April 23, 2024

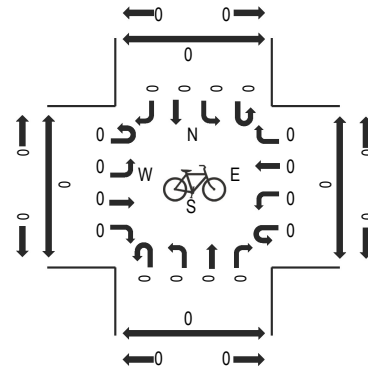
Peak Hour: 04:00 PM - 05:00 PM

Peak 15-Minutes: 04:00 PM - 04:15 PM

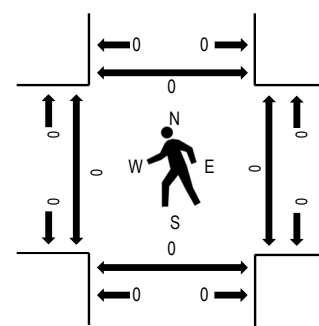
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	BIG SPRINGS ROAD Eastbound				BIG SPRINGS ROAD Westbound				NORTH ELLICOTT HIGHWAY Northbound				NORTH ELLICOTT HIGHWAY Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
	4:00 PM	0	0	0	0	0	2	0	1	0	0	26	1	0	0	20			0	50	185	0
4:15 PM	0	0	0	0	0	1	0	1	0	0	27	1	0	0	19	0	49	168	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	18	1	0	1	23	0	43	151	0	0	0	0
4:45 PM	0	0	0	0	0	1	0	0	0	0	24	1	0	0	17	0	43	124	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	12	3	0	1	17	0	33	115	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	14	0	0	2	15	0	32		0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	6	0	0	0	10	0	16		0	0	0	0
5:45 PM	0	0	0	0	0	1	0	0	0	0	8	0	0	2	23	0	34		0	0	0	0
Count Total	0	0	0	0	0	5	0	3	0	0	135	7	0	6	144	0	300		0	0	0	0
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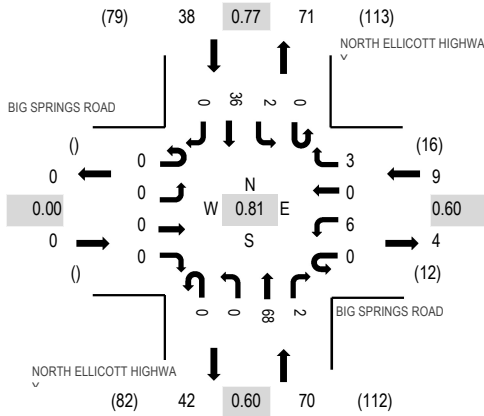
Location: 1 NORTH ELLICOTT HIGHWAY & BIG SPRINGS ROAD Noon

Date: Sunday, April 21, 2024

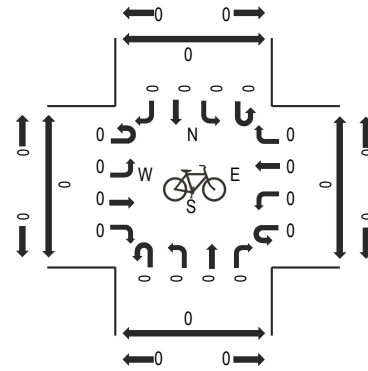
Peak Hour: 11:00 AM - 12:00 PM

Peak 15-Minutes: 11:00 AM - 11:15 AM

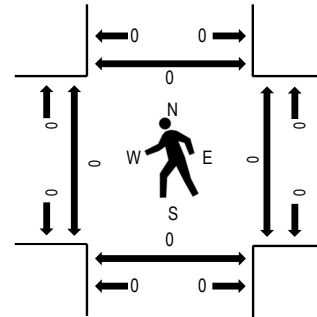
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians

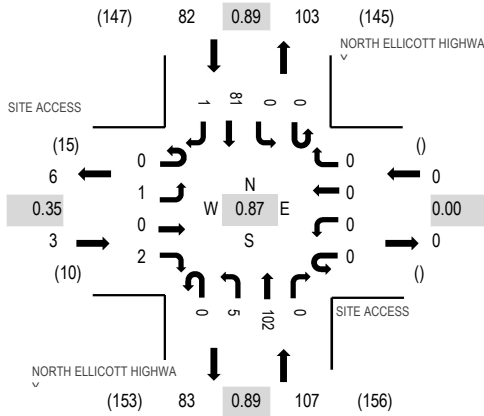


Note: Total study counts contained in parentheses.

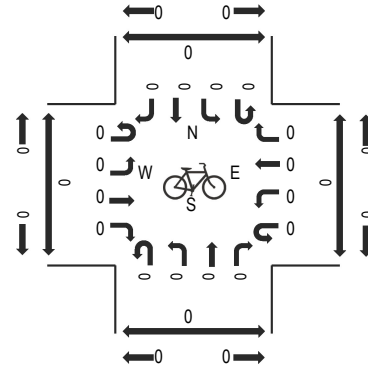
Traffic Counts - Motorized Vehicles

Interval Start Time	BIG SPRINGS ROAD				BIG SPRINGS ROAD				NORTH ELLICOTT HIGHWAY				NORTH ELLICOTT HIGHWAY				Total	Rolling Hour	Pedestrian Crossings				
	Eastbound				Westbound				Northbound				Southbound						West	East	South	North	
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right							
11:00 AM	0	0	0	0	0	0	0	1	0	0	29	0	0	0	0	6	0	36	117	0	0	0	0
11:15 AM	0	0	0	0	0	2	0	1	0	0	17	0	0	0	1	3	0	24	102	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	9	1	0	1	11	0	22	101	0	0	0	0	
11:45 AM	0	0	0	0	0	4	0	1	0	0	13	1	0	0	16	0	35	105	0	0	0	0	
12:00 PM	0	0	0	0	0	1	0	1	0	0	9	0	1	0	9	0	21	90	0	0	0	0	
12:15 PM	0	0	0	0	0	1	0	0	0	0	10	1	0	2	9	0	23		0	0	0	0	
12:30 PM	0	0	0	0	0	2	0	2	0	0	10	1	0	1	10	0	26		0	0	0	0	
12:45 PM	0	0	0	0	0	0	0	0	0	0	9	2	0	1	8	0	20		0	0	0	0	
Count Total	0	0	0	0	0	10	0	6	0	0	106	6	1	6	72	0	207		0	0	0	0	
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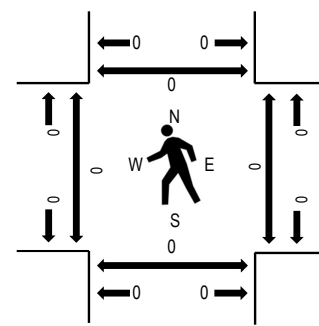
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	SITE ACCESS Eastbound				SITE ACCESS Westbound				NORTH ELLICOTT HIGHWAY Northbound				NORTH ELLICOTT HIGHWAY Southbound				Total	Rolling Hour	Pedestrian Crossings				
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North	
4:00 PM	0	0	0	0	0	0	0	0	0	2	28	0	0	0	0	20	0	50	192	0	0	0	0
4:15 PM	0	1	0	1	0	0	0	0	0	3	27	0	0	0	0	23	0	55	171	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	20	1	43	150	0	0	0	0
4:45 PM	0	0	0	1	0	0	0	0	0	0	25	0	0	0	0	18	0	44	124	0	0	0	0
5:00 PM	0	0	0	1	0	0	0	0	0	1	11	0	0	0	0	15	1	29	121	0	0	0	0
5:15 PM	0	0	0	1	0	0	0	0	0	0	17	0	0	0	0	16	0	34		0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	3	7	0	0	0	0	7	0	17		0	0	0	0
5:45 PM	0	0	0	5	0	0	0	0	0	3	7	0	0	0	0	25	1	41		0	0	0	0
Count Total	0	1	0	9	0	0	0	0	0	12	144	0	0	0	0	144	3	313		0	0	0	0
Peak Hour	0	1	0	2	0	0	0	0	0	5	102	0	0	0	0	81	1	192		0	0	0	0



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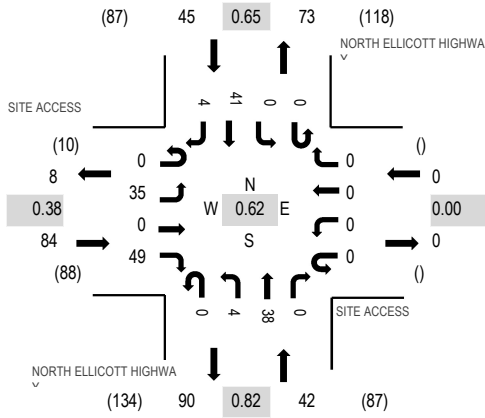
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Date: Sunday, April 21, 2024

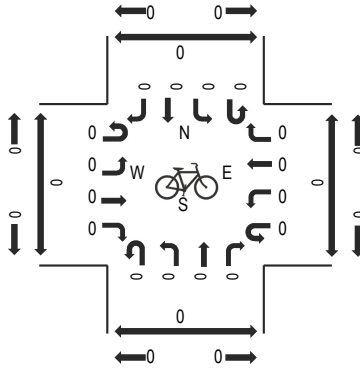
Peak Hour: 11:00 AM - 12:00 PM

Peak 15-Minutes: 11:00 AM - 11:15 AM

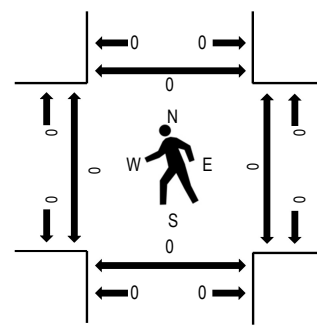
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	SITE ACCESS Eastbound				SITE ACCESS Westbound				NORTH ELLICOTT HIGHWAY Northbound				NORTH ELLICOTT HIGHWAY Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
11:00 AM	0	25	0	31	0	0	0	0	0	1	6	0	0	0	6	0	69	171	0	0	0	0
11:15 AM	0	7	0	15	0	0	0	0	0	1	8	0	0	0	3	0	34	123	0	0	0	0
11:30 AM	0	2	0	1	0	0	0	0	0	1	10	0	0	0	11	3	28	116	0	0	0	0
11:45 AM	0	1	0	2	0	0	0	0	0	1	14	0	0	0	21	1	40	109	0	0	0	0
12:00 PM	0	1	0	0	0	0	0	0	0	0	10	0	0	0	10	0	21	91	0	0	0	0
12:15 PM	0	1	0	2	0	0	0	0	0	1	12	0	0	0	11	0	27		0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	1	9	0	0	0	11	0	21		0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	12	0	0	0	10	0	22		0	0	0	0
Count Total	0	37	0	51	0	0	0	0	0	6	81	0	0	0	83	4	262		0	0	0	0
Peak Hour	0	35	0	49	0	0	0	0	0	4	38	0	0	0	41	4	171		0	0	0	0

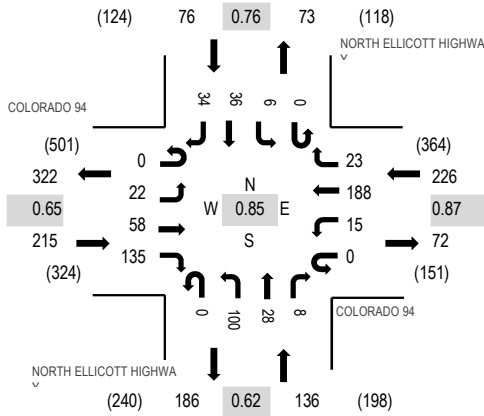
Location: 3 NORTH ELLICOTT HIGHWAY & COLORADO 94 AM

Date: Tuesday, April 23, 2024

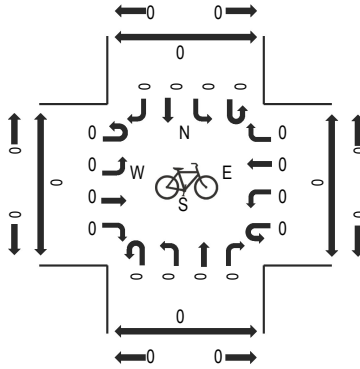
Peak Hour: 07:00 AM - 08:00 AM

Peak 15-Minutes: 07:30 AM - 07:45 AM

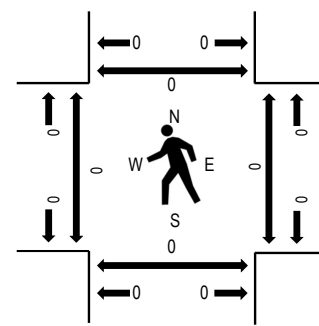
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	COLORADO 94 Eastbound				COLORADO 94 Westbound				NORTH ELLICOTT HIGHWAY Northbound				NORTH ELLICOTT HIGHWAY Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
7:00 AM	0	4	14	18	0	3	59	3	0	15	2	0	0	0	6	17	141	653	0	0	0	0
7:15 AM	0	2	16	41	0	9	47	5	0	10	2	0	0	3	14	8	157	635	0	0	0	0
7:30 AM	0	9	17	58	0	3	37	4	0	31	11	5	0	3	7	7	192	558	0	0	0	0
7:45 AM	0	7	11	18	0	0	45	11	0	44	13	3	0	0	9	2	163	451	0	0	0	0
8:00 AM	0	6	26	9	0	0	35	7	0	19	6	1	0	4	5	5	123	357	0	0	0	0
8:15 AM	0	3	17	8	0	1	27	3	0	12	3	0	0	1	2	3	80		0	0	0	0
8:30 AM	0	4	7	8	0	7	31	3	0	4	3	1	0	6	3	8	85		0	0	0	0
8:45 AM	0	1	13	7	0	2	20	2	0	9	4	0	0	3	2	6	69		0	0	0	0
Count Total	0	36	121	167	0	25	301	38	0	144	44	10	0	20	48	56	1,010		0	0	0	0
Peak Hour	0	22	58	135	0	15	188	23	0	100	28	8	0	6	36	34	653		0	0	0	0

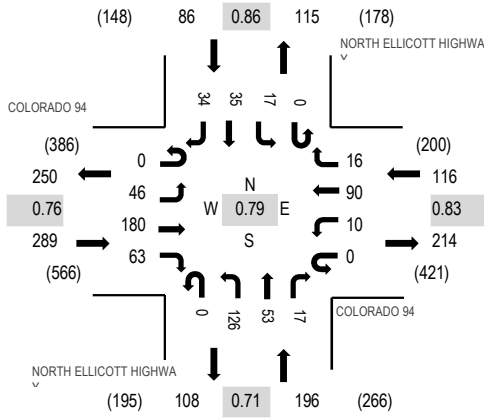
Location: 3 NORTH ELLICOTT HIGHWAY & COLORADO 94 PM

Date: Tuesday, April 23, 2024

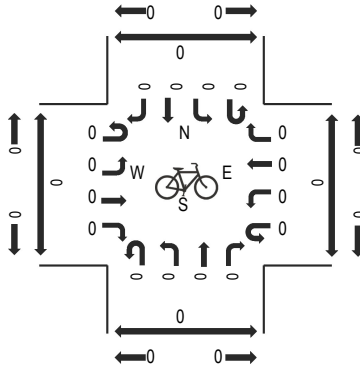
Peak Hour: 04:00 PM - 05:00 PM

Peak 15-Minutes: 04:00 PM - 04:15 PM

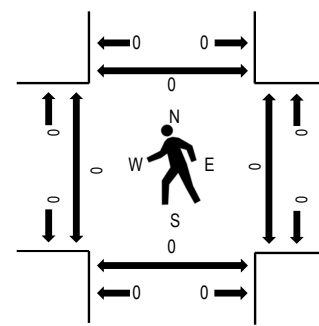
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	COLORADO 94 Eastbound				COLORADO 94 Westbound				NORTH ELLICOTT HIGHWAY Northbound				NORTH ELLICOTT HIGHWAY Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
	4:00 PM	0	9	59	27	0	4	24	7	0	48	14	6	0	5	8			6	217	687	0
4:15 PM	0	13	32	9	0	3	19	1	0	41	23	5	0	6	8	9	169	580	0	0	0	0
4:30 PM	0	13	41	16	0	1	28	4	0	18	12	4	0	4	10	11	162	535	0	0	0	0
4:45 PM	0	11	48	11	0	2	19	4	0	19	4	2	0	2	9	8	139	496	0	0	0	0
5:00 PM	0	11	42	12	0	0	9	2	0	13	5	3	0	4	6	3	110	493	0	0	0	0
5:15 PM	0	6	40	13	0	2	23	3	0	11	6	4	0	6	4	6	124		0	0	0	0
5:30 PM	0	10	53	14	0	1	20	0	0	9	4	2	0	3	2	5	123		0	0	0	0
5:45 PM	0	12	38	26	0	1	21	2	0	10	2	1	0	11	6	6	136		0	0	0	0
Count Total	0	85	353	128	0	14	163	23	0	169	70	27	0	41	53	54	1,180		0	0	0	0
Peak Hour	0	46	180	63	0	10	90	16	0	126	53	17	0	17	35	34	687		0	0	0	0

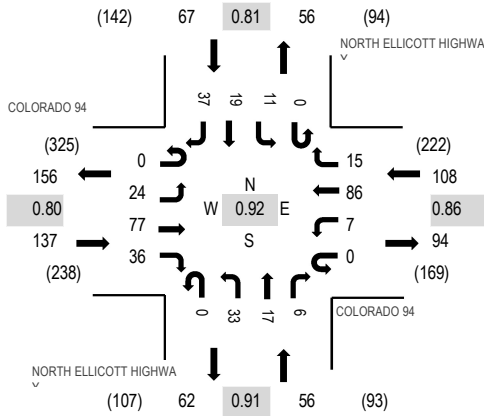
Location: 3 NORTH ELLICOTT HIGHWAY & COLORADO 94 Noon

Date: Sunday, April 21, 2024

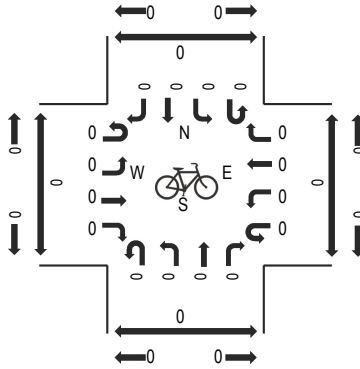
Peak Hour: 11:45 AM - 12:45 PM

Peak 15-Minutes: 12:15 PM - 12:30 PM

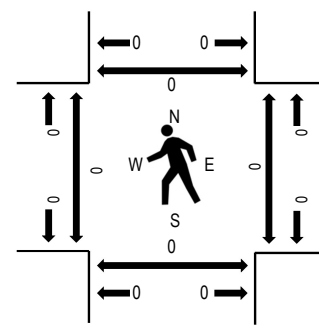
Peak Hour - Motorized Vehicles



Peak Hour - Bicycles



Peak Hour - Pedestrians



Note: Total study counts contained in parentheses.

Traffic Counts - Motorized Vehicles

Interval Start Time	COLORADO 94 Eastbound				COLORADO 94 Westbound				NORTH ELLICOTT HIGHWAY Northbound				NORTH ELLICOTT HIGHWAY Southbound				Total	Rolling Hour	Pedestrian Crossings			
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right			West	East	South	North
11:00 AM	0	3	11	4	0	1	19	3	0	5	1	1	0	4	8	18	78	344	0	0	0	0
11:15 AM	1	0	24	8	0	0	23	6	0	3	2	0	0	2	4	14	87	346	0	0	0	0
11:30 AM	0	4	12	6	1	0	22	5	0	10	3	0	0	1	3	13	80	359	0	0	0	0
11:45 AM	0	7	13	10	0	1	19	5	0	9	5	0	0	3	12	15	99	368	0	0	0	0
12:00 PM	0	3	16	6	0	3	21	4	0	9	3	3	0	2	3	7	80	351	0	0	0	0
12:15 PM	0	6	26	11	0	1	22	4	0	8	6	2	0	4	1	9	100		0	0	0	0
12:30 PM	0	8	22	9	0	2	24	2	0	7	3	1	0	2	3	6	89		0	0	0	0
12:45 PM	0	3	17	8	0	1	25	8	0	12	0	0	0	2	2	4	82		0	0	0	0
Count Total	1	34	141	62	1	9	175	37	0	63	23	7	0	20	36	86	695		0	0	0	0
Peak Hour	0	24	77	36	0	7	86	15	0	33	17	6	0	11	19	37	368		0	0	0	0

Start Time	21-Apr-24 Sun	NB	SB	Total
12:00 AM		3	4	7
01:00		0	2	2
02:00		3	1	4
03:00		0	2	2
04:00		3	0	3
05:00		5	1	6
06:00		7	3	10
07:00		17	11	28
08:00		35	19	54
09:00		70	20	90
10:00		37	36	73
11:00		41	90	131
12:00 PM		42	44	86
01:00		35	63	98
02:00		33	48	81
03:00		43	50	93
04:00		36	45	81
05:00		37	37	74
06:00		32	34	66
07:00		23	29	52
08:00		27	19	46
09:00		8	12	20
10:00		9	11	20
11:00		1	7	8
Total		547	588	1135
Percent		48.2%	51.8%	
AM Peak	-	09:00	11:00	-
Vol.	-	70	90	-
PM Peak	-	15:00	13:00	-
Vol.	-	43	63	-
Grand Total		547	588	1135
Percent		48.2%	51.8%	
ADT		ADT 1,135	ADT 1,135	AADT 1,135

Start Time	23-Apr-24 Tue	NB	SB	Total
12:00 AM		2	5	7
01:00		2	5	7
02:00		3	5	8
03:00		3	0	3
04:00		9	9	18
05:00		17	13	30
06:00		68	47	115
07:00		75	77	152
08:00		42	49	91
09:00		42	37	79
10:00		44	38	82
11:00		44	44	88
12:00 PM		47	49	96
01:00		48	37	85
02:00		51	52	103
03:00		47	62	109
04:00		106	85	191
05:00		49	70	119
06:00		48	59	107
07:00		23	30	53
08:00		21	24	45
09:00		19	16	35
10:00		6	14	20
11:00		10	9	19
Total		826	836	1662
Percent		49.7%	50.3%	
AM Peak	-	07:00	07:00	-
Vol.	-	75	77	-
PM Peak	-	16:00	16:00	-
Vol.	-	106	85	-
Grand Total		826	836	1662
Percent		49.7%	50.3%	
ADT		ADT 1,662	ADT 1,662	AADT 1,662

APPENDIX B

Level of Service Definitions

The following information is referenced from the Highway Capacity Manual: A Guide for Multimodal Mobility Analysis, 6th Edition, Transportation Research Board, 2016: Chapter 19 – Signalized Intersections.

Motorized Vehicle Level of Service (LOS) for Signalized Intersections

Levels of service are defined to represent reasonable ranges in control delay.

LOS A Describes operations with a control delay of 10 s/veh or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If it is due to favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.

LOS B Describes operations with control delay between 10 and 20 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.

LOS C Describes operations with control delay between 20 and 35 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual *cycle failures* (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.

LOS D Describes operations with control delay between 35 and 55 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.

LOS E Describes operations with control delay between 55 and 80 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.

LOS F Describes operations with control delay exceeding 80 s/veh or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Control Delay (s/veh)	LOS by Volume-to-Capacity Ratio ^a	
	$v/c \leq 1.0$	$v/c > 1.0$
≤ 10	A	F
> 10 – 20	B	F
> 20 – 35	C	F
> 35 – 55	D	F
> 55 – 80	E	F
> 80	F	F

Note: ^a For approach-based and intersectionwide assessments, LOS is defined solely by control delay.

The following information is referenced from the Highway Capacity Manual: A Guide for Multimodal Mobility Analysis, 6th Edition, Transportation Research Board, 2016: Chapter 20 – Two-Way Stop-Controlled Intersections, Chapter 21 – All-Way Stop-Controlled Intersections, and Chapter 22 - Roundabouts.

Motorized Vehicle Level of Service (LOS) for Unsignalized & Roundabout Intersections

LOS is a quantitative stratification of performance measure(s) representing quality of service. Quality of service describes how well a transportation facility or service operates from a traveler’s perspective. LOS is measured on an A – F scale, with LOS A representing the best operating conditions from a traveler’s perspective.

Control Delay (s/veh)	LOS by Volume-to-Capacity Ratio ^a	
	v/c ≤ 1.0	v/c > 1.0
0 – 10	A	F
> 10 – 15	B	F
> 15 – 25	C	F
> 25 – 35	D	F
> 35 – 50	E	F
> 50	F	F

Note: The LOS criteria apply to each lane on a given approach and to each approach on the minor street. LOS is not calculated for major-street approaches or for the intersection as a whole.

^a For approaches and intersectionwide assessment, LOS is defined solely by control delay.

APPENDIX C

Capacity Worksheets

HCM 6th TWSC
1: N Ellicott Highway & Big Springs Road

Existing Traffic Volumes
AM Peak Traffic Hour

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	4	8	77	2	5	56
Future Vol, veh/h	4	8	77	2	5	56
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	9	84	2	5	61

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	156	85	0	0	86
Stage 1	85	-	-	-	-
Stage 2	71	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	835	974	-	-	1510
Stage 1	938	-	-	-	-
Stage 2	952	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	832	974	-	-	1510
Mov Cap-2 Maneuver	832	-	-	-	-
Stage 1	938	-	-	-	-
Stage 2	949	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	922	1510
HCM Lane V/C Ratio	-	-	0.014	0.004
HCM Control Delay (s)	-	-	9	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Existing Traffic Volumes
AM Peak Traffic Hour

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			L		R
Traffic Vol, veh/h	2	9	4	77	62	1
Future Vol, veh/h	2	9	4	77	62	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	10	4	84	67	1

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	160	68	68	0	-	0
Stage 1	68	-	-	-	-	-
Stage 2	92	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	831	995	1533	-	-	-
Stage 1	955	-	-	-	-	-
Stage 2	932	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	829	995	1533	-	-	-
Mov Cap-2 Maneuver	829	-	-	-	-	-
Stage 1	952	-	-	-	-	-
Stage 2	932	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	0.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1533	-	960	-	-
HCM Lane V/C Ratio	0.003	-	0.012	-	-
HCM Control Delay (s)	7.4	0	8.8	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Existing Traffic Volumes
AM Peak Traffic Hour

Intersection												
Int Delay, s/veh	5.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	22	58	135	15	188	23	100	28	8	6	36	34
Future Vol, veh/h	22	58	135	15	188	23	100	28	8	6	36	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	63	147	16	204	25	109	30	9	7	39	37

Major/Minor	Major1		Major2		Minor1			Minor2				
Conflicting Flow All	229	0	0	210	0	0	472	446	137	453	507	217
Stage 1	-	-	-	-	-	-	185	185	-	249	249	-
Stage 2	-	-	-	-	-	-	287	261	-	204	258	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1339	-	-	1361	-	-	502	507	911	517	468	823
Stage 1	-	-	-	-	-	-	817	747	-	755	701	-
Stage 2	-	-	-	-	-	-	720	692	-	798	694	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1339	-	-	1361	-	-	438	492	911	477	454	823
Mov Cap-2 Maneuver	-	-	-	-	-	-	438	492	-	477	454	-
Stage 1	-	-	-	-	-	-	802	734	-	741	693	-
Stage 2	-	-	-	-	-	-	641	684	-	744	682	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	0.8		0.5		16.4		12.4	
HCM LOS					C		B	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	463	1339	-	-	1361	-	-	571
HCM Lane V/C Ratio	0.319	0.018	-	-	0.012	-	-	0.145
HCM Control Delay (s)	16.4	7.7	-	-	7.7	-	-	12.4
HCM Lane LOS	C	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	1.4	0.1	-	-	0	-	-	0.5

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Existing Traffic Volumes
 PM Peak Traffic Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	4	2	95	4	1	79
Future Vol, veh/h	4	2	95	4	1	79
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	2	103	4	1	86

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	193	105	0	0	107
Stage 1	105	-	-	-	-
Stage 2	88	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	796	949	-	-	1484
Stage 1	919	-	-	-	-
Stage 2	935	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	795	949	-	-	1484
Mov Cap-2 Maneuver	795	-	-	-	-
Stage 1	919	-	-	-	-
Stage 2	934	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.3	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	840	1484
HCM Lane V/C Ratio	-	-	0.008	0.001
HCM Control Delay (s)	-	-	9.3	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Existing Traffic Volumes
PM Peak Traffic Hour

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	1	2	5	102	81	1
Future Vol, veh/h	1	2	5	102	81	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	2	5	111	88	1

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	210	89	89	0	-	0
Stage 1	89	-	-	-	-	-
Stage 2	121	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	778	969	1506	-	-	-
Stage 1	934	-	-	-	-	-
Stage 2	904	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	775	969	1506	-	-	-
Mov Cap-2 Maneuver	775	-	-	-	-	-
Stage 1	930	-	-	-	-	-
Stage 2	904	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1506	-	894	-	-
HCM Lane V/C Ratio	0.004	-	0.004	-	-
HCM Control Delay (s)	7.4	0	9	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Existing Traffic Volumes
 PM Peak Traffic Hour

Intersection												
Int Delay, s/veh	7.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	46	180	63	10	90	16	126	53	17	17	35	34
Future Vol, veh/h	46	180	63	10	90	16	126	53	17	17	35	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	50	196	68	11	98	17	137	58	18	18	38	37

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	115	0	0	264	0	0	496	467	230	497	493	107
Stage 1	-	-	-	-	-	-	330	330	-	129	129	-
Stage 2	-	-	-	-	-	-	166	137	-	368	364	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1474	-	-	1300	-	-	484	493	809	483	477	947
Stage 1	-	-	-	-	-	-	683	646	-	875	789	-
Stage 2	-	-	-	-	-	-	836	783	-	652	624	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1474	-	-	1300	-	-	422	472	809	414	457	947
Mov Cap-2 Maneuver	-	-	-	-	-	-	422	472	-	414	457	-
Stage 1	-	-	-	-	-	-	660	624	-	845	783	-
Stage 2	-	-	-	-	-	-	758	777	-	559	603	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.2			0.7			19.7			12.7		
HCM LOS							C			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	454	1474	-	-	1300	-	-	560
HCM Lane V/C Ratio	0.469	0.034	-	-	0.008	-	-	0.167
HCM Control Delay (s)	19.7	7.5	-	-	7.8	-	-	12.7
HCM Lane LOS	C	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	2.5	0.1	-	-	0	-	-	0.6

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Existing Traffic Volumes
 Sunday Peak Traffic Hour

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	6	3	68	2	2	36
Future Vol, veh/h	6	3	68	2	2	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	3	74	2	2	39

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	118	75	0	0	76	0
Stage 1	75	-	-	-	-	-
Stage 2	43	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	878	986	-	-	1523	-
Stage 1	948	-	-	-	-	-
Stage 2	979	-	-	-	-	-
Platoon blocked, %			-	-	-	-
Mov Cap-1 Maneuver	877	986	-	-	1523	-
Mov Cap-2 Maneuver	877	-	-	-	-	-
Stage 1	948	-	-	-	-	-
Stage 2	978	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9	0	0.4
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	911	1523
HCM Lane V/C Ratio	-	-	0.011	0.001
HCM Control Delay (s)	-	-	9	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Existing Traffic Volumes
Sunday Peak Traffic Hour

Intersection						
Int Delay, s/veh	4.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			← ↑		→
Traffic Vol, veh/h	35	49	4	38	41	4
Future Vol, veh/h	35	49	4	38	41	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	38	53	4	41	45	4

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	96	47	49	0	-
Stage 1	47	-	-	-	-
Stage 2	49	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	903	1022	1558	-	-
Stage 1	975	-	-	-	-
Stage 2	973	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	900	1022	1558	-	-
Mov Cap-2 Maneuver	900	-	-	-	-
Stage 1	972	-	-	-	-
Stage 2	973	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	0.7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1558	-	967	-	-
HCM Lane V/C Ratio	0.003	-	0.094	-	-
HCM Control Delay (s)	7.3	0	9.1	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.3	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Existing Traffic Volumes
Sunday Peak Traffic Hour

Intersection												
Int Delay, s/veh	4.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	24	77	36	7	86	15	33	17	6	11	19	37
Future Vol, veh/h	24	77	36	7	86	15	33	17	6	11	19	37
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	84	39	8	93	16	36	18	7	12	21	40

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	109	0	0	123	0	0	304	281	104	285	292	101
Stage 1	-	-	-	-	-	-	156	156	-	117	117	-
Stage 2	-	-	-	-	-	-	148	125	-	168	175	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1481	-	-	1464	-	-	648	627	951	667	619	954
Stage 1	-	-	-	-	-	-	846	769	-	888	799	-
Stage 2	-	-	-	-	-	-	855	792	-	834	754	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1481	-	-	1464	-	-	594	613	951	636	605	954
Mov Cap-2 Maneuver	-	-	-	-	-	-	594	613	-	636	605	-
Stage 1	-	-	-	-	-	-	831	755	-	872	795	-
Stage 2	-	-	-	-	-	-	793	788	-	794	740	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.3			0.5			11.4			10.2		
HCM LOS							B			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	625	1481	-	-	1464	-	-	766
HCM Lane V/C Ratio	0.097	0.018	-	-	0.005	-	-	0.095
HCM Control Delay (s)	11.4	7.5	-	-	7.5	-	-	10.2
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.3	0.1	-	-	0	-	-	0.3

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Background Traffic Volumes
 AM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	4	8	80	2	5	58
Future Vol, veh/h	4	8	80	2	5	58
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	9	87	2	5	63

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	161	88	0	0	89
Stage 1	88	-	-	-	-
Stage 2	73	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	830	970	-	-	1506
Stage 1	935	-	-	-	-
Stage 2	950	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	828	970	-	-	1506
Mov Cap-2 Maneuver	828	-	-	-	-
Stage 1	935	-	-	-	-
Stage 2	947	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	918	1506
HCM Lane V/C Ratio	-	-	0.014	0.004
HCM Control Delay (s)	-	-	9	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Background Traffic Volumes
AM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	2	9	4	80	64	1
Future Vol, veh/h	2	9	4	80	64	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	10	4	87	70	1

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	166	71	71	0	0
Stage 1	71	-	-	-	-
Stage 2	95	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	824	991	1529	-	-
Stage 1	952	-	-	-	-
Stage 2	929	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	822	991	1529	-	-
Mov Cap-2 Maneuver	822	-	-	-	-
Stage 1	949	-	-	-	-
Stage 2	929	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	0.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1529	-	955	-	-
HCM Lane V/C Ratio	0.003	-	0.013	-	-
HCM Control Delay (s)	7.4	0	8.8	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Background Traffic Volumes
 AM Peak Traffic Hour - Year 2026

Intersection												
Int Delay, s/veh	5.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	23	60	140	16	196	24	104	29	8	6	37	35
Future Vol, veh/h	23	60	140	16	196	24	104	29	8	6	37	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	65	152	17	213	26	113	32	9	7	40	38

Major/Minor	Major1		Major2		Minor1			Minor2				
Conflicting Flow All	239	0	0	217	0	0	490	464	141	472	527	226
Stage 1	-	-	-	-	-	-	191	191	-	260	260	-
Stage 2	-	-	-	-	-	-	299	273	-	212	267	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1328	-	-	1353	-	-	489	495	907	502	456	813
Stage 1	-	-	-	-	-	-	811	742	-	745	693	-
Stage 2	-	-	-	-	-	-	710	684	-	790	688	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1328	-	-	1353	-	-	423	479	907	461	441	813
Mov Cap-2 Maneuver	-	-	-	-	-	-	423	479	-	461	441	-
Stage 1	-	-	-	-	-	-	796	728	-	731	684	-
Stage 2	-	-	-	-	-	-	629	675	-	734	675	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	0.8		0.5		17.2		12.6	
HCM LOS					C		B	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	447	1328	-	-	1353	-	-	557
HCM Lane V/C Ratio	0.343	0.019	-	-	0.013	-	-	0.152
HCM Control Delay (s)	17.2	7.8	-	-	7.7	-	-	12.6
HCM Lane LOS	C	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	1.5	0.1	-	-	0	-	-	0.5

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Background Traffic Volumes
 PM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	4	2	99	4	1	82
Future Vol, veh/h	4	2	99	4	1	82
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	2	108	4	1	89

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	201	110	0	0	112	0
Stage 1	110	-	-	-	-	-
Stage 2	91	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	788	943	-	-	1478	-
Stage 1	915	-	-	-	-	-
Stage 2	933	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	787	943	-	-	1478	-
Mov Cap-2 Maneuver	787	-	-	-	-	-
Stage 1	915	-	-	-	-	-
Stage 2	932	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.4	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	833	1478
HCM Lane V/C Ratio	-	-	0.008	0.001
HCM Control Delay (s)	-	-	9.4	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Background Traffic Volumes
PM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			L		R
Traffic Vol, veh/h	1	2	5	106	84	1
Future Vol, veh/h	1	2	5	106	84	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	2	5	115	91	1

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	217	92	92	0	0
Stage 1	92	-	-	-	-
Stage 2	125	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	771	965	1503	-	-
Stage 1	932	-	-	-	-
Stage 2	901	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	768	965	1503	-	-
Mov Cap-2 Maneuver	768	-	-	-	-
Stage 1	928	-	-	-	-
Stage 2	901	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1503	-	889	-	-
HCM Lane V/C Ratio	0.004	-	0.004	-	-
HCM Control Delay (s)	7.4	0	9.1	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Background Traffic Volumes
PM Peak Traffic Hour - Year 2026

Intersection												
Int Delay, s/veh	8.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	48	187	66	10	94	17	131	55	18	18	36	35
Future Vol, veh/h	48	187	66	10	94	17	131	55	18	18	36	35
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	52	203	72	11	102	18	142	60	20	20	39	38

Major/Minor	Major1		Major2		Minor1			Minor2				
Conflicting Flow All	120	0	0	275	0	0	515	485	239	516	512	111
Stage 1	-	-	-	-	-	-	343	343	-	133	133	-
Stage 2	-	-	-	-	-	-	172	142	-	383	379	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1468	-	-	1288	-	-	470	482	800	470	465	942
Stage 1	-	-	-	-	-	-	672	637	-	870	786	-
Stage 2	-	-	-	-	-	-	830	779	-	640	615	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1468	-	-	1288	-	-	407	461	800	400	445	942
Mov Cap-2 Maneuver	-	-	-	-	-	-	407	461	-	400	445	-
Stage 1	-	-	-	-	-	-	648	615	-	840	779	-
Stage 2	-	-	-	-	-	-	750	772	-	544	593	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	1.2		0.6		21.2		13	
HCM LOS					C		B	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	440	1468	-	-	1288	-	-	546
HCM Lane V/C Ratio	0.504	0.036	-	-	0.008	-	-	0.177
HCM Control Delay (s)	21.2	7.5	-	-	7.8	-	-	13
HCM Lane LOS	C	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	2.8	0.1	-	-	0	-	-	0.6

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Background Traffic Volumes
 Sunday Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	6	3	71	2	2	37
Future Vol, veh/h	6	3	71	2	2	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	3	77	2	2	40

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	122	78	0	0	79	0
Stage 1	78	-	-	-	-	-
Stage 2	44	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	873	983	-	-	1519	-
Stage 1	945	-	-	-	-	-
Stage 2	978	-	-	-	-	-
Platoon blocked, %			-	-	-	-
Mov Cap-1 Maneuver	872	983	-	-	1519	-
Mov Cap-2 Maneuver	872	-	-	-	-	-
Stage 1	945	-	-	-	-	-
Stage 2	977	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9	0	0.4
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	906	1519
HCM Lane V/C Ratio	-	-	0.011	0.001
HCM Control Delay (s)	-	-	9	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Background Traffic Volumes
Sunday Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	4.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	36	51	4	40	43	4
Future Vol, veh/h	36	51	4	40	43	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	39	55	4	43	47	4

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	100	49	51	0	-
Stage 1	49	-	-	-	-
Stage 2	51	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	899	1020	1555	-	-
Stage 1	973	-	-	-	-
Stage 2	971	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	896	1020	1555	-	-
Mov Cap-2 Maneuver	896	-	-	-	-
Stage 1	970	-	-	-	-
Stage 2	971	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.1	0.7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1555	-	965	-	-
HCM Lane V/C Ratio	0.003	-	0.098	-	-
HCM Control Delay (s)	7.3	0	9.1	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.3	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Background Traffic Volumes
Sunday Peak Traffic Hour - Year 2026

Intersection												
Int Delay, s/veh	4.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	25	80	37	7	89	16	34	18	6	11	20	38
Future Vol, veh/h	25	80	37	7	89	16	34	18	6	11	20	38
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	27	87	40	8	97	17	37	20	7	12	22	41

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	114	0	0	127	0	0	314	291	107	297	303	106
Stage 1	-	-	-	-	-	-	161	161	-	122	122	-
Stage 2	-	-	-	-	-	-	153	130	-	175	181	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1475	-	-	1459	-	-	639	619	947	655	610	948
Stage 1	-	-	-	-	-	-	841	765	-	882	795	-
Stage 2	-	-	-	-	-	-	849	789	-	827	750	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1475	-	-	1459	-	-	583	605	947	623	596	948
Mov Cap-2 Maneuver	-	-	-	-	-	-	583	605	-	623	596	-
Stage 1	-	-	-	-	-	-	826	751	-	866	791	-
Stage 2	-	-	-	-	-	-	785	785	-	785	737	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.3			0.5			11.5			10.3		
HCM LOS							B			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	614	1475	-	-	1459	-	-	756
HCM Lane V/C Ratio	0.103	0.018	-	-	0.005	-	-	0.099
HCM Control Delay (s)	11.5	7.5	-	-	7.5	-	-	10.3
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.3	0.1	-	-	0	-	-	0.3

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Background Traffic Volumes
 AM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	6	11	108	3	7	78
Future Vol, veh/h	6	11	108	3	7	78
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	12	117	3	8	85

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	220	119	0	0	120
Stage 1	119	-	-	-	-
Stage 2	101	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	768	933	-	-	1468
Stage 1	906	-	-	-	-
Stage 2	923	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	763	933	-	-	1468
Mov Cap-2 Maneuver	763	-	-	-	-
Stage 1	906	-	-	-	-
Stage 2	917	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.3	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	865	1468
HCM Lane V/C Ratio	-	-	0.021	0.005
HCM Control Delay (s)	-	-	9.3	7.5
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Background Traffic Volumes
AM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	3	13	6	108	87	1
Future Vol, veh/h	3	13	6	108	87	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	3	14	7	117	95	1

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	227	96	96	0	-
Stage 1	96	-	-	-	-
Stage 2	131	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	761	960	1498	-	-
Stage 1	928	-	-	-	-
Stage 2	895	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	757	960	1498	-	-
Mov Cap-2 Maneuver	757	-	-	-	-
Stage 1	923	-	-	-	-
Stage 2	895	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9	0.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1498	-	914	-	-
HCM Lane V/C Ratio	0.004	-	0.019	-	-
HCM Control Delay (s)	7.4	0	9	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Background Traffic Volumes
AM Peak Traffic Hour - Year 2040

Intersection												
Int Delay, s/veh	9.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	31	81	189	21	263	32	140	39	11	8	50	48
Future Vol, veh/h	31	81	189	21	263	32	140	39	11	8	50	48
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	34	88	205	23	286	35	152	42	12	9	54	52

Major/Minor	Major1		Major2		Minor1			Minor2				
Conflicting Flow All	321	0	0	293	0	0	662	626	191	636	711	304
Stage 1	-	-	-	-	-	-	259	259	-	350	350	-
Stage 2	-	-	-	-	-	-	403	367	-	286	361	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1239	-	-	1269	-	-	375	401	851	391	358	736
Stage 1	-	-	-	-	-	-	746	694	-	666	633	-
Stage 2	-	-	-	-	-	-	624	622	-	721	626	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1239	-	-	1269	-	-	296	383	851	341	342	736
Mov Cap-2 Maneuver	-	-	-	-	-	-	296	383	-	341	342	-
Stage 1	-	-	-	-	-	-	726	675	-	648	622	-
Stage 2	-	-	-	-	-	-	520	611	-	648	609	-

Approach	EB		WB		NB		SB	
HCM Control Delay, s	0.8		0.5		34		15.7	
HCM LOS					D		C	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	323	1239	-	-	1269	-	-	451
HCM Lane V/C Ratio	0.639	0.027	-	-	0.018	-	-	0.255
HCM Control Delay (s)	34	8	-	-	7.9	-	-	15.7
HCM Lane LOS	D	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	4.1	0.1	-	-	0.1	-	-	1

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Background Traffic Volumes
 PM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	6	3	133	6	1	111
Future Vol, veh/h	6	3	133	6	1	111
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	3	145	7	1	121

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	272	149	0	0	152
Stage 1	149	-	-	-	-
Stage 2	123	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	717	898	-	-	1429
Stage 1	879	-	-	-	-
Stage 2	902	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	716	898	-	-	1429
Mov Cap-2 Maneuver	716	-	-	-	-
Stage 1	879	-	-	-	-
Stage 2	901	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	768	1429
HCM Lane V/C Ratio	-	-	0.013	0.001
HCM Control Delay (s)	-	-	9.7	7.5
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Background Traffic Volumes
PM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	1	3	7	143	113	1
Future Vol, veh/h	1	3	7	143	113	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	1	3	8	155	123	1

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	295	124	124	0	0
Stage 1	124	-	-	-	-
Stage 2	171	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	696	927	1463	-	-
Stage 1	902	-	-	-	-
Stage 2	859	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	692	927	1463	-	-
Mov Cap-2 Maneuver	692	-	-	-	-
Stage 1	897	-	-	-	-
Stage 2	859	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.2	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1463	-	854	-	-
HCM Lane V/C Ratio	0.005	-	0.005	-	-
HCM Control Delay (s)	7.5	0	9.2	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Background Traffic Volumes
 PM Peak Traffic Hour - Year 2040

Intersection												
Int Delay, s/veh	23.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	64	252	88	14	126	22	176	74	24	24	49	48
Future Vol, veh/h	64	252	88	14	126	22	176	74	24	24	49	48
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	70	274	96	15	137	24	191	80	26	26	53	52

Major/Minor	Major1		Major2		Minor1			Minor2				
Conflicting Flow All	161	0	0	370	0	0	694	653	322	694	689	149
Stage 1	-	-	-	-	-	-	462	462	-	179	179	-
Stage 2	-	-	-	-	-	-	232	191	-	515	510	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1418	-	-	1189	-	-	357	387	719	357	369	898
Stage 1	-	-	-	-	-	-	580	565	-	823	751	-
Stage 2	-	-	-	-	-	-	771	742	-	543	538	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1418	-	-	1189	-	-	283	363	719	272	346	898
Mov Cap-2 Maneuver	-	-	-	-	-	-	283	363	-	272	346	-
Stage 1	-	-	-	-	-	-	552	537	-	783	741	-
Stage 2	-	-	-	-	-	-	666	732	-	423	512	-

Approach	EB		WB		NB			SB		
HCM Control Delay, s	1.2		0.7		71.8			17.1		
HCM LOS					F			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	319	1418	-	-	1189	-	-	427
HCM Lane V/C Ratio	0.934	0.049	-	-	0.013	-	-	0.308
HCM Control Delay (s)	71.8	7.7	-	-	8.1	-	-	17.1
HCM Lane LOS	F	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	9.3	0.2	-	-	0	-	-	1.3

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Background Traffic Volumes
 Sunday Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	8	4	95	3	3	50
Future Vol, veh/h	8	4	95	3	3	50
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	9	4	103	3	3	54

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	165	105	0	0	106	0
Stage 1	105	-	-	-	-	-
Stage 2	60	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	826	949	-	-	1485	-
Stage 1	919	-	-	-	-	-
Stage 2	963	-	-	-	-	-
Platoon blocked, %			-	-	-	-
Mov Cap-1 Maneuver	824	949	-	-	1485	-
Mov Cap-2 Maneuver	824	-	-	-	-	-
Stage 1	919	-	-	-	-	-
Stage 2	961	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.2	0	0.4
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	862	1485
HCM Lane V/C Ratio	-	-	0.015	0.002
HCM Control Delay (s)	-	-	9.2	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q(veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Background Traffic Volumes
Sunday Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	4.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	49	69	6	53	57	6
Future Vol, veh/h	49	69	6	53	57	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	53	75	7	58	62	7

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	138	66	69	0	0
Stage 1	66	-	-	-	-
Stage 2	72	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	855	998	1532	-	-
Stage 1	957	-	-	-	-
Stage 2	951	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	851	998	1532	-	-
Mov Cap-2 Maneuver	851	-	-	-	-
Stage 1	952	-	-	-	-
Stage 2	951	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.5	0.7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1532	-	931	-	-
HCM Lane V/C Ratio	0.004	-	0.138	-	-
HCM Control Delay (s)	7.4	0	9.5	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.5	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Background Traffic Volumes
Sunday Peak Traffic Hour - Year 2040

Intersection												
Int Delay, s/veh	4.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	34	108	50	10	120	21	46	24	8	15	27	52
Future Vol, veh/h	34	108	50	10	120	21	46	24	8	15	27	52
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	37	117	54	11	130	23	50	26	9	16	29	57

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	153	0	0	171	0	0	425	393	144	400	409	142
Stage 1	-	-	-	-	-	-	218	218	-	164	164	-
Stage 2	-	-	-	-	-	-	207	175	-	236	245	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1428	-	-	1406	-	-	540	543	903	560	532	906
Stage 1	-	-	-	-	-	-	784	723	-	838	762	-
Stage 2	-	-	-	-	-	-	795	754	-	767	703	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1428	-	-	1406	-	-	472	525	903	520	514	906
Mov Cap-2 Maneuver	-	-	-	-	-	-	472	525	-	520	514	-
Stage 1	-	-	-	-	-	-	764	704	-	816	756	-
Stage 2	-	-	-	-	-	-	711	748	-	713	685	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.3			0.5			13.4			11.3		
HCM LOS							B			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	513	1428	-	-	1406	-	-	677
HCM Lane V/C Ratio	0.165	0.026	-	-	0.008	-	-	0.151
HCM Control Delay (s)	13.4	7.6	-	-	7.6	-	-	11.3
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.6	0.1	-	-	0	-	-	0.5

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Total Traffic Volumes
 AM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	4	8	78	2	5	57
Future Vol, veh/h	4	8	78	2	5	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	9	85	2	5	62

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	158	86	0	0	87
Stage 1	86	-	-	-	-
Stage 2	72	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	833	973	-	-	1509
Stage 1	937	-	-	-	-
Stage 2	951	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	831	973	-	-	1509
Mov Cap-2 Maneuver	831	-	-	-	-
Stage 1	937	-	-	-	-
Stage 2	948	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	921	1509
HCM Lane V/C Ratio	-	-	0.014	0.004
HCM Control Delay (s/veh)	-	-	9	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q (veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Total Traffic Volumes
AM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙	↗		↖	↗	
Traffic Vol, veh/h	0	2	3	80	64	0
Future Vol, veh/h	0	2	3	80	64	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	2	3	87	70	0

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	163	70	70	0	-	0
Stage 1	70	-	-	-	-	-
Stage 2	93	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	828	993	1531	-	-	-
Stage 1	953	-	-	-	-	-
Stage 2	931	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	826	993	1531	-	-	-
Mov Cap-2 Maneuver	826	-	-	-	-	-
Stage 1	951	-	-	-	-	-
Stage 2	931	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.6	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1531	-	-	993	-	-
HCM Lane V/C Ratio	0.002	-	-	0.002	-	-
HCM Control Delay (s/veh)	7.4	0	0	8.6	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q (veh)	0	-	-	0	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Total Traffic Volumes
 AM Peak Traffic Hour - Year 2026

Intersection												
Int Delay, s/veh	5.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	24	60	140	16	196	24	104	27	8	6	33	32
Future Vol, veh/h	24	60	140	16	196	24	104	27	8	6	33	32
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	65	152	17	213	26	113	29	9	7	36	35

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	239	0	0	217	0	0	489	466	141	472	529	226
Stage 1	-	-	-	-	-	-	193	193	-	260	260	-
Stage 2	-	-	-	-	-	-	296	273	-	212	269	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1328	-	-	1353	-	-	489	494	907	502	455	813
Stage 1	-	-	-	-	-	-	809	741	-	745	693	-
Stage 2	-	-	-	-	-	-	712	684	-	790	687	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1328	-	-	1353	-	-	428	478	907	462	440	813
Mov Cap-2 Maneuver	-	-	-	-	-	-	428	478	-	462	440	-
Stage 1	-	-	-	-	-	-	793	726	-	730	684	-
Stage 2	-	-	-	-	-	-	638	675	-	736	673	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	0.8			0.5			17			12.5		
HCM LOS							C			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	451	1328	-	-	1353	-	-	558
HCM Lane V/C Ratio	0.335	0.02	-	-	0.013	-	-	0.138
HCM Control Delay (s/veh)	17	7.8	-	-	7.7	-	-	12.5
HCM Lane LOS	C	A	-	-	A	-	-	B
HCM 95th %tile Q (veh)	1.5	0.1	-	-	0	-	-	0.5

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Total Traffic Volumes
 PM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	4	2	98	4	1	81
Future Vol, veh/h	4	2	98	4	1	81
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	2	107	4	1	88

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	199	109	0	0	111	0
Stage 1	109	-	-	-	-	-
Stage 2	90	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	790	945	-	-	1479	-
Stage 1	916	-	-	-	-	-
Stage 2	934	-	-	-	-	-
Platoon blocked, %			-	-	-	-
Mov Cap-1 Maneuver	789	945	-	-	1479	-
Mov Cap-2 Maneuver	789	-	-	-	-	-
Stage 1	916	-	-	-	-	-
Stage 2	933	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.3	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	835	1479
HCM Lane V/C Ratio	-	-	0.008	0.001
HCM Control Delay (s/veh)	-	-	9.3	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q (veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Total Traffic Volumes
PM Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙	↗		↖	↗	
Traffic Vol, veh/h	0	4	3	106	84	0
Future Vol, veh/h	0	4	3	106	84	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	4	3	115	91	0

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	212	91	91	0	0
Stage 1	91	-	-	-	-
Stage 2	121	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	776	967	1504	-	-
Stage 1	933	-	-	-	-
Stage 2	904	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	774	967	1504	-	-
Mov Cap-2 Maneuver	774	-	-	-	-
Stage 1	931	-	-	-	-
Stage 2	904	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.7	0.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1504	-	-	967	-	-
HCM Lane V/C Ratio	0.002	-	-	0.004	-	-
HCM Control Delay (s/veh)	7.4	0	0	8.7	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q (veh)	0	-	-	0	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Total Traffic Volumes
PM Peak Traffic Hour - Year 2026

Intersection												
Int Delay, s/veh	8.3											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	47	187	66	10	94	17	131	54	18	19	36	36
Future Vol, veh/h	47	187	66	10	94	17	131	54	18	19	36	36
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	51	203	72	11	102	18	142	59	20	21	39	39

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	120	0	0	275	0	0	513	483	239	514	510	111
Stage 1	-	-	-	-	-	-	341	341	-	133	133	-
Stage 2	-	-	-	-	-	-	172	142	-	381	377	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1468	-	-	1288	-	-	472	483	800	471	467	942
Stage 1	-	-	-	-	-	-	674	639	-	870	786	-
Stage 2	-	-	-	-	-	-	830	779	-	641	616	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1468	-	-	1288	-	-	408	462	800	401	446	942
Mov Cap-2 Maneuver	-	-	-	-	-	-	408	462	-	401	446	-
Stage 1	-	-	-	-	-	-	650	617	-	840	779	-
Stage 2	-	-	-	-	-	-	749	772	-	546	594	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	1.2			0.6			21.1			13		
HCM LOS							C			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	441	1468	-	-	1288	-	-	547
HCM Lane V/C Ratio	0.5	0.035	-	-	0.008	-	-	0.181
HCM Control Delay (s/veh)	21.1	7.5	-	-	7.8	-	-	13
HCM Lane LOS	C	A	-	-	A	-	-	B
HCM 95th %tile Q (veh)	2.7	0.1	-	-	0	-	-	0.7

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Total Traffic Volumes
 Sunday Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	1.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	12	3	58	8	2	54
Future Vol, veh/h	12	3	58	8	2	54
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	13	3	63	9	2	59

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	131	68	0	0	72
Stage 1	68	-	-	-	-
Stage 2	63	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	863	995	-	-	1528
Stage 1	955	-	-	-	-
Stage 2	960	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	862	995	-	-	1528
Mov Cap-2 Maneuver	862	-	-	-	-
Stage 1	955	-	-	-	-
Stage 2	959	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.1	0	0.3
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	886	1528
HCM Lane V/C Ratio	-	-	0.018	0.001
HCM Control Delay (s/veh)	-	-	9.1	7.4
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q (veh)	-	-	0.1	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Total Traffic Volumes
Sunday Peak Traffic Hour - Year 2026

Intersection						
Int Delay, s/veh	4.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙	↗		↖	↗	
Traffic Vol, veh/h	29	44	41	40	43	27
Future Vol, veh/h	29	44	41	40	43	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	32	48	45	43	47	29

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	195	62	76	0	-	0
Stage 1	62	-	-	-	-	-
Stage 2	133	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	794	1003	1523	-	-	-
Stage 1	961	-	-	-	-	-
Stage 2	893	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	770	1003	1523	-	-	-
Mov Cap-2 Maneuver	770	-	-	-	-	-
Stage 1	932	-	-	-	-	-
Stage 2	893	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.2	3.8	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1523	-	770	1003	-	-
HCM Lane V/C Ratio	0.029	-	0.041	0.048	-	-
HCM Control Delay (s/veh)	7.4	0	9.9	8.8	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q (veh)	0.1	-	0.1	0.2	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Total Traffic Volumes
 Sunday Peak Traffic Hour - Year 2026

Intersection												
Int Delay, s/veh	4.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗			↕			↕	
Traffic Vol, veh/h	45	80	37	7	89	22	34	31	6	10	20	32
Future Vol, veh/h	45	80	37	7	89	22	34	31	6	10	20	32
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	49	87	40	8	97	24	37	34	7	11	22	35

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	121	0	0	127	0	0	359	342	107	351	350	109
Stage 1	-	-	-	-	-	-	205	205	-	125	125	-
Stage 2	-	-	-	-	-	-	154	137	-	226	225	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1467	-	-	1459	-	-	596	580	947	604	574	945
Stage 1	-	-	-	-	-	-	797	732	-	879	792	-
Stage 2	-	-	-	-	-	-	848	783	-	777	718	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1467	-	-	1459	-	-	541	558	947	556	552	945
Mov Cap-2 Maneuver	-	-	-	-	-	-	541	558	-	556	552	-
Stage 1	-	-	-	-	-	-	771	708	-	850	788	-
Stage 2	-	-	-	-	-	-	790	779	-	710	694	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	2.1			0.4			12.3			10.7		
HCM LOS							B			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	569	1467	-	-	1459	-	-	704
HCM Lane V/C Ratio	0.136	0.033	-	-	0.005	-	-	0.096
HCM Control Delay (s/veh)	12.3	7.5	-	-	7.5	-	-	10.7
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q (veh)	0.5	0.1	-	-	0	-	-	0.3

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Total Traffic Volumes
 AM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	TT		T			T
Traffic Vol, veh/h	6	11	105	3	7	77
Future Vol, veh/h	6	11	105	3	7	77
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	12	114	3	8	84

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	216	116	0	0	117
Stage 1	116	-	-	-	-
Stage 2	100	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	772	936	-	-	1471
Stage 1	909	-	-	-	-
Stage 2	924	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	767	936	-	-	1471
Mov Cap-2 Maneuver	767	-	-	-	-
Stage 1	909	-	-	-	-
Stage 2	918	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.2	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	868	1471
HCM Lane V/C Ratio	-	-	0.021	0.005
HCM Control Delay (s/veh)	-	-	9.2	7.5
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q (veh)	-	-	0.1	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Total Traffic Volumes
AM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙	↗		↖	↗	
Traffic Vol, veh/h	0	2	3	108	87	0
Future Vol, veh/h	0	2	3	108	87	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	2	3	117	95	0

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	218	95	95	0	-	0
Stage 1	95	-	-	-	-	-
Stage 2	123	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	770	962	1499	-	-	-
Stage 1	929	-	-	-	-	-
Stage 2	902	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	768	962	1499	-	-	-
Mov Cap-2 Maneuver	768	-	-	-	-	-
Stage 1	927	-	-	-	-	-
Stage 2	902	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.8	0.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1499	-	-	962	-	-
HCM Lane V/C Ratio	0.002	-	-	0.002	-	-
HCM Control Delay (s/veh)	7.4	0	0	8.8	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q (veh)	0	-	-	0	-	-

HCM 6th TWSC
3: N Ellicott Highway & State Highway 94

Total Traffic Volumes
AM Peak Traffic Hour - Year 2040

Intersection												
Int Delay, s/veh	8.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	31	81	189	21	263	31	140	37	11	8	44	43
Future Vol, veh/h	31	81	189	21	263	31	140	37	11	8	44	43
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	34	88	205	23	286	34	152	40	12	9	48	47

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	320	0	0	293	0	0	656	625	191	634	710	303
Stage 1	-	-	-	-	-	-	259	259	-	349	349	-
Stage 2	-	-	-	-	-	-	397	366	-	285	361	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1240	-	-	1269	-	-	379	401	851	392	359	737
Stage 1	-	-	-	-	-	-	746	694	-	667	633	-
Stage 2	-	-	-	-	-	-	629	623	-	722	626	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1240	-	-	1269	-	-	306	383	851	343	343	737
Mov Cap-2 Maneuver	-	-	-	-	-	-	306	383	-	343	343	-
Stage 1	-	-	-	-	-	-	726	675	-	649	622	-
Stage 2	-	-	-	-	-	-	534	612	-	651	609	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	0.8			0.5			31.7			15.3		
HCM LOS							D			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	332	1240	-	-	1269	-	-	452
HCM Lane V/C Ratio	0.616	0.027	-	-	0.018	-	-	0.228
HCM Control Delay (s/veh)	31.7	8	-	-	7.9	-	-	15.3
HCM Lane LOS	D	A	-	-	A	-	-	C
HCM 95th %tile Q (veh)	3.9	0.1	-	-	0.1	-	-	0.9

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Total Traffic Volumes
 PM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T		T		T	
Traffic Vol, veh/h	6	3	132	6	1	110
Future Vol, veh/h	6	3	132	6	1	110
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	7	3	143	7	1	120

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	269	147	0	0	150
Stage 1	147	-	-	-	-
Stage 2	122	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	720	900	-	-	1431
Stage 1	880	-	-	-	-
Stage 2	903	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	719	900	-	-	1431
Mov Cap-2 Maneuver	719	-	-	-	-
Stage 1	880	-	-	-	-
Stage 2	902	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.7	0	0.1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	771	1431
HCM Lane V/C Ratio	-	-	0.013	0.001
HCM Control Delay (s/veh)	-	-	9.7	7.5
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q (veh)	-	-	0	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Total Traffic Volumes
PM Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙	↗		↖	↗	
Traffic Vol, veh/h	0	4	3	143	113	0
Future Vol, veh/h	0	4	3	143	113	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	4	3	155	123	0

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	284	123	123	0	-	0
Stage 1	123	-	-	-	-	-
Stage 2	161	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	706	928	1464	-	-	-
Stage 1	902	-	-	-	-	-
Stage 2	868	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	705	928	1464	-	-	-
Mov Cap-2 Maneuver	705	-	-	-	-	-
Stage 1	900	-	-	-	-	-
Stage 2	868	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.9	0.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1464	-	-	928	-	-
HCM Lane V/C Ratio	0.002	-	-	0.005	-	-
HCM Control Delay (s/veh)	7.5	0	0	8.9	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q (veh)	0	-	-	0	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Total Traffic Volumes
 PM Peak Traffic Hour - Year 2040

Intersection												
Int Delay, s/veh	22.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	62	252	88	14	126	22	176	72	24	24	49	49
Future Vol, veh/h	62	252	88	14	126	22	176	72	24	24	49	49
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	67	274	96	15	137	24	191	78	26	26	53	53

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	161	0	0	370	0	0	688	647	322	687	683	149
Stage 1	-	-	-	-	-	-	456	456	-	179	179	-
Stage 2	-	-	-	-	-	-	232	191	-	508	504	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1418	-	-	1189	-	-	360	390	719	361	372	898
Stage 1	-	-	-	-	-	-	584	568	-	823	751	-
Stage 2	-	-	-	-	-	-	771	742	-	547	541	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1418	-	-	1189	-	-	286	367	719	278	350	898
Mov Cap-2 Maneuver	-	-	-	-	-	-	286	367	-	278	350	-
Stage 1	-	-	-	-	-	-	557	541	-	784	741	-
Stage 2	-	-	-	-	-	-	665	732	-	430	516	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	1.2			0.7			68.2			16.9		
HCM LOS							F			C		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	322	1418	-	-	1189	-	-	434
HCM Lane V/C Ratio	0.918	0.048	-	-	0.013	-	-	0.306
HCM Control Delay (s/veh)	68.2	7.7	-	-	8.1	-	-	16.9
HCM Lane LOS	F	A	-	-	A	-	-	C
HCM 95th %tile Q (veh)	9	0.2	-	-	0	-	-	1.3

HCM 6th TWSC
 1: N Ellicott Highway & Big Springs Road

Total Traffic Volumes
 Sunday Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	0.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	TT		T			T
Traffic Vol, veh/h	13	4	111	9	3	65
Future Vol, veh/h	13	4	111	9	3	65
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	14	4	121	10	3	71

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	203	126	0	0	131
Stage 1	126	-	-	-	-
Stage 2	77	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218
Pot Cap-1 Maneuver	786	924	-	-	1454
Stage 1	900	-	-	-	-
Stage 2	946	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	784	924	-	-	1454
Mov Cap-2 Maneuver	784	-	-	-	-
Stage 1	900	-	-	-	-
Stage 2	944	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.5	0	0.3
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	813	1454
HCM Lane V/C Ratio	-	-	0.023	0.002
HCM Control Delay (s/veh)	-	-	9.5	7.5
HCM Lane LOS	-	-	A	A
HCM 95th %tile Q (veh)	-	-	0.1	0

HCM 6th TWSC
2: N Ellicott Highway & Site Access

Total Traffic Volumes
Sunday Peak Traffic Hour - Year 2040

Intersection						
Int Delay, s/veh	3.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	↙	↗		↖	↗	
Traffic Vol, veh/h	29	44	41	53	57	27
Future Vol, veh/h	29	44	41	53	57	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	32	48	45	58	62	29

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	225	77	91	0	0
Stage 1	77	-	-	-	-
Stage 2	148	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	763	984	1504	-	-
Stage 1	946	-	-	-	-
Stage 2	880	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	739	984	1504	-	-
Mov Cap-2 Maneuver	739	-	-	-	-
Stage 1	917	-	-	-	-
Stage 2	880	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.3	3.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	1504	-	739	984	-	-
HCM Lane V/C Ratio	0.03	-	0.043	0.049	-	-
HCM Control Delay (s/veh)	7.5	0	10.1	8.8	-	-
HCM Lane LOS	A	A	B	A	-	-
HCM 95th %tile Q (veh)	0.1	-	0.1	0.2	-	-

HCM 6th TWSC
 3: N Ellicott Highway & State Highway 94

Total Traffic Volumes
 Sunday Peak Traffic Hour - Year 2040

Intersection												
Int Delay, s/veh	4.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↕			↕	
Traffic Vol, veh/h	52	108	50	10	120	26	46	36	8	11	22	36
Future Vol, veh/h	52	108	50	10	120	26	46	36	8	11	22	36
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	145	-	-	290	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	57	117	54	11	130	28	50	39	9	12	24	39

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	158	0	0	171	0	0	456	438	144	448	451	144
Stage 1	-	-	-	-	-	-	258	258	-	166	166	-
Stage 2	-	-	-	-	-	-	198	180	-	282	285	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1422	-	-	1406	-	-	515	512	903	521	504	903
Stage 1	-	-	-	-	-	-	747	694	-	836	761	-
Stage 2	-	-	-	-	-	-	804	750	-	725	676	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	1422	-	-	1406	-	-	457	487	903	467	480	903
Mov Cap-2 Maneuver	-	-	-	-	-	-	457	487	-	467	480	-
Stage 1	-	-	-	-	-	-	717	666	-	803	755	-
Stage 2	-	-	-	-	-	-	739	744	-	649	649	-

Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	1.9			0.5			14.1			11.5		
HCM LOS							B			B		

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	491	1422	-	-	1406	-	-	632
HCM Lane V/C Ratio	0.199	0.04	-	-	0.008	-	-	0.119
HCM Control Delay (s/veh)	14.1	7.6	-	-	7.6	-	-	11.5
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q (veh)	0.7	0.1	-	-	0	-	-	0.4