# TRAFFIC IMPACT STUDY

for the

# Cornerstone Church

Located in Town of Bluffton, South Carolina

Prepared for Cornerstone Church

Prepared by Ramey Kemp Associates



October 2023 RKA Project #23100

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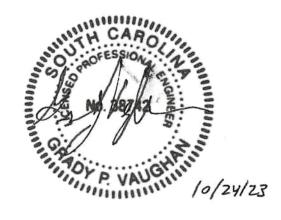
Prepared for Cornerstone Church 11 Grassey Lane Bluffton, SC 29910

Prepared by
Ramey Kemp Associates
1411 Gervais Street, Suite 150
Columbia, South Carolina 29201



October 2023 RKA Project #23100





### RAMEY KEMP ASSOCIATES

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#### **RAMEY KEMP ASSOCIATES**

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#### **EXECUTIVE SUMMARY**

A traffic impact study was conducted for the proposed Cornerstone Church development in accordance with SCDOT and Town of Bluffton guidelines. The development is proposed to be located on Meadow Drive south of SC 46 in the Town of Bluffton, South Carolina. The development is planned to consist of up to 800 seats and a Monday through Thursday day care with 120 students enrolled. Access to the site will be provided via one existing full access on Meadow Drive and via Grassey Lane.

The proposed accesses are expected to operate adequately with the existing one ingress and one egress lane. The site accesses should be designed to provide proper sight distances and should meet Town of Bluffton design criteria.

Based on the anticipated build out volumes, a left-turn lane and right-turn lane are warranted and recommended along SC 46 at Meadow Drive. The mainline of the existing intersection of SC 46 & Meadow Drive is expected to operate adequately with the proposed project in the 2025 Build conditions. The Meadow Drive approach is expected to experience delays, however this is typical of minor approaches of two-way stop-controlled intersections. The Meadow Drive approach to SC 46 is recommended to provide two egress lanes and one ingress lane. The Meadow Drive approach to SC 46 should to be designed to provide proper sight distances and should meet SCDOT design criteria.

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#### 1. INTRODUCTION

The purpose of this report is to document a traffic impact study conducted for the proposed Cornerstone Church development in the Town of Bluffton, South Carolina in accordance with SCDOT and Town of Bluffton guidelines. This report summarizes the procedures and findings of the traffic impact study. Scoping is attached in Appendix A.

#### 1.1. Project Background

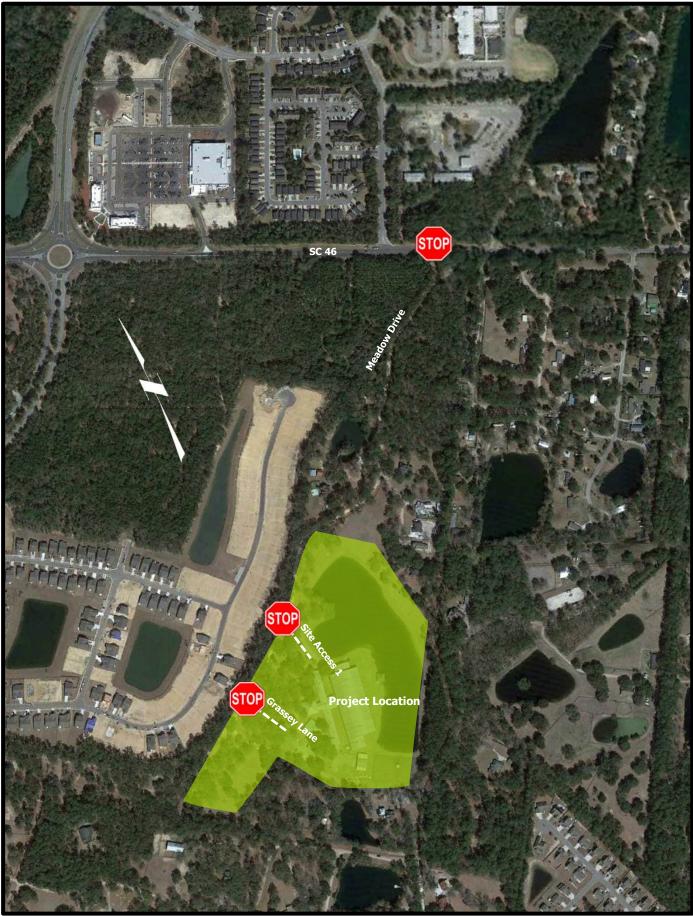
The development will be located on the east side of Meadow Drive south of SC 46. The development is planned to consist of up to 800 seats and a Monday through Thursday day care with 120 students enrolled. Access to the site will be provided via one existing full access on Meadow Drive and via Grassey Lane.

The traffic impact study considered the weekday AM peak period (between 7:00 AM and 9:00 AM) and the weekday PM peak period (between 4:00 PM and 6:00 PM), and the Sunday peak hour (between 8:30 AM and 12:30 PM) as the study time frames. The following intersections were studied:

• May River Road (S-46) & Meadow Drive

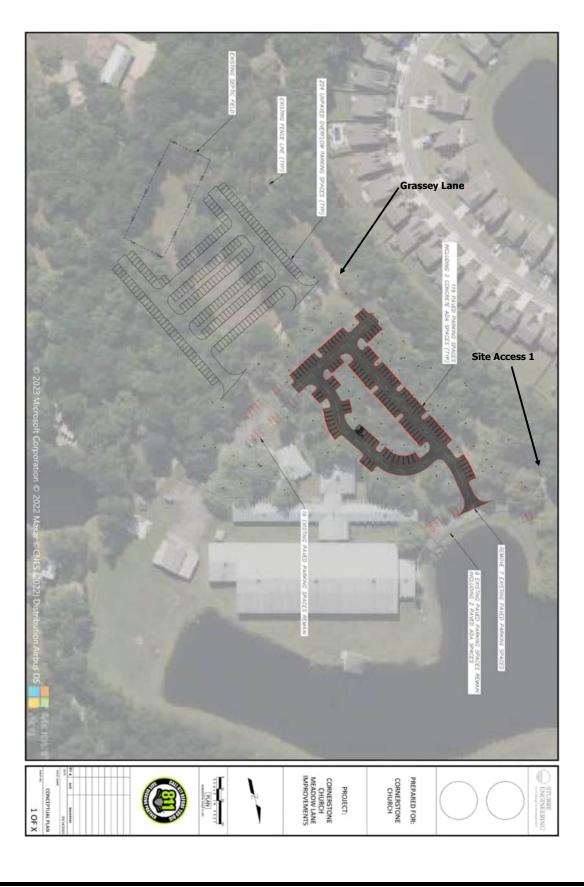
Future-year analyses assume 2025 conditions as the Build scenario. Figure 1 shows the location of the project site, and Figure 2 illustrates the conceptual site plan.







**Cornerstone Church - Traffic Impact Study** 





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#### 1.2. Existing Roadway Conditions

A review of the existing roadway conditions in the study area was conducted and is summarized in Table 1. Figure 3 illustrates the existing lane geometry.

**Table 1 - Street Inventory** 

Facility Name	Route #	Typical Cross Section	Posted Speed Limit	Maintained By	2022 AADT
May River Road	S-46	2-lane undivided	35 MPH	SCDOT	$14,000^{1}$
Meadow Drive	-	2-lane undivided	15 MPH	Local	-

<sup>&</sup>lt;sup>1</sup> SCDOT Count Station #07-0155

#### 1.3. Existing Traffic Count

Vehicle turning movement counts were collected by in May 2023 for the Sunday peak period (8:30 AM to 12:30 PM) and PM peak period (4:00 PM to 6:00 PM) at the intersection of:

• SC 46 & Meadow Drive

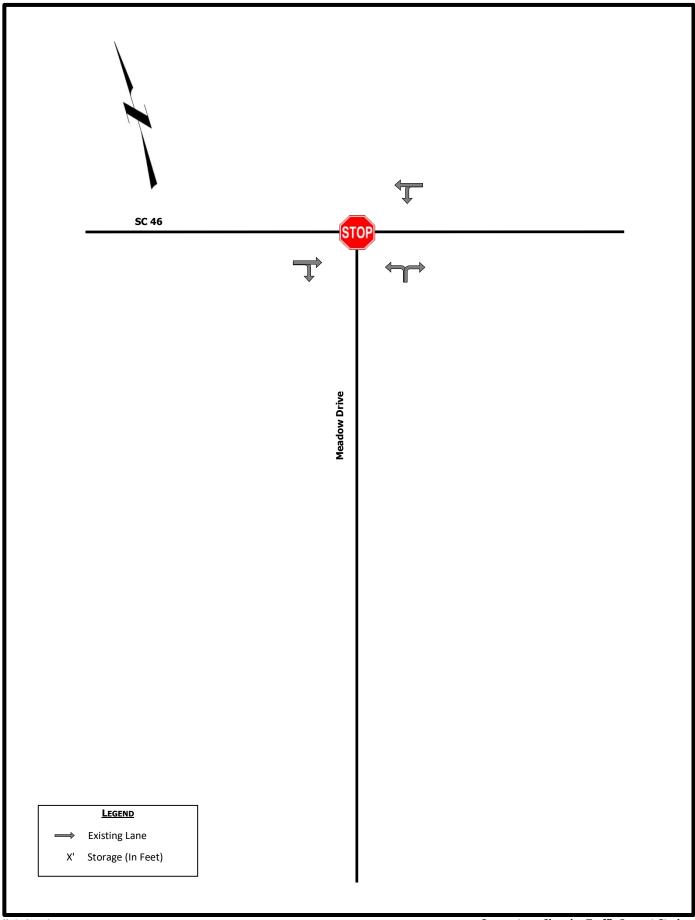
The AM peak volumes were developed utilizing a prior 2022 count along SC 46 and grown to 2023 by applying a 2.0% growth rate. Volumes along the Meadow Drive approach for the AM peak period were estimated based on trip generation for 25 homes.

The counts were conducted while the local school district was in session. The raw traffic volumes are provided in Appendix B. The 2023 AM and PM traffic volumes are illustrated in Figure 4. The existing 2023 Sunday peak volumes are illustrated in Figure 5.

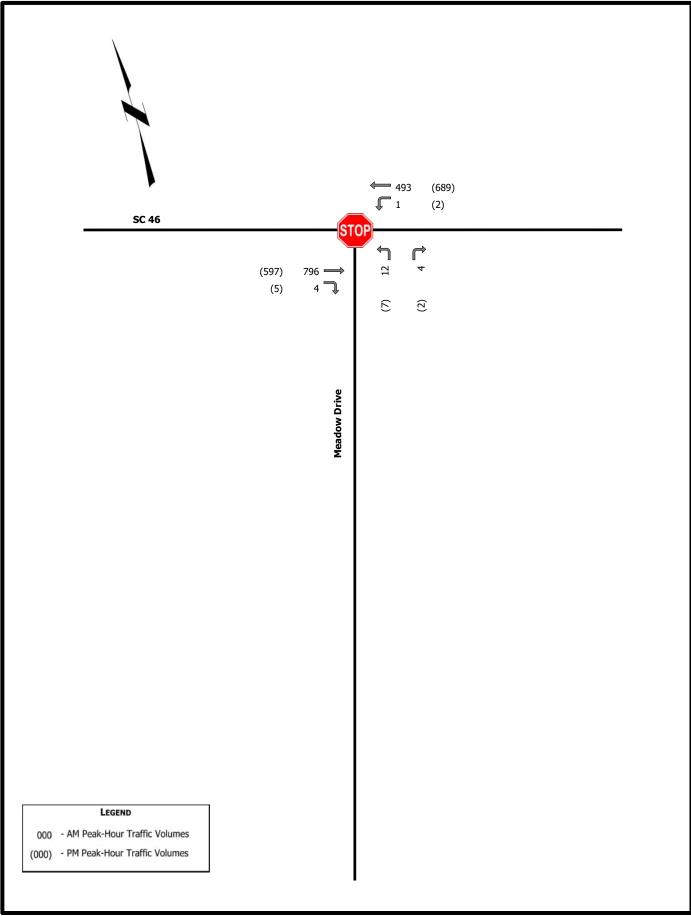
#### 1.4. Driveway Location

Access points are proposed to be at an existing full access driveway located along Meadow Drive approximately 2,460 feet south of the intersection with SC 46 and also via Grassy Lane. Since existing accesses are proposed to be utilized, there are no recommendations.

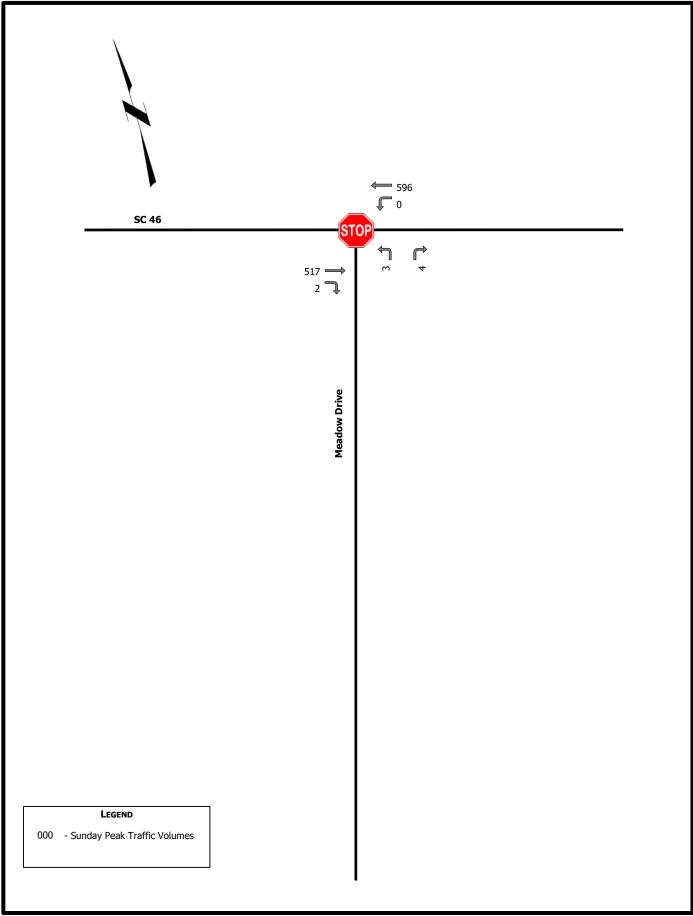














#### 2. PROJECT TRAFFIC

#### 2.1. Proposed Land Uses

The Cornerstone Church development is proposed to have 800 seats and a day care with 120 students enrolled. The project site location is currently a horse farm.

#### 2.2. Trip Generation Estimates

The trip generation potential was estimated using information contained in ITE's *Trip Generation Manual*, 11<sup>th</sup> Edition (2021) for land use code (LUC) 560 – Church and LUC 565 – Day Care Center. The trip generation estimates for of the weekday daily, the Sunday peak hour of generator, the weekday AM peak-hour of the adjacent street, and the weekday PM peak-hour of the adjacent street time periods are shown in Table 2. ITE trip generation sheets are provided in Appendix C.

**Table 2 - Trip Generation Estimates** 

Land Use	ITE	G.	Daily		Sunday	7	A	M Peal	(	F	M Peal	k
	LUC	Size	Traffic	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Church	560	800 seats	727	197	205	402	34	22	56	36	44	80
Day Care Center	565	120 students	474	7	6	13	46	42	88	40	46	86
	N	ew, Externa	al Traffic	204	211	415	80	64	144	76	90	166

LUC 560

Daily Trips: T = 5.40(X) + 50.83 (50% In; 50% Out)

Sunday Peak Hour of Generator: T = 7.87(X) + 93.13 (48% In; 52% Out)

AM Peak-Hour: T = 0.37(X) - 1.84 (62% In; 38% Out) PM Peak-Hour: T = 0.36(X) + 4.70 (44% In; 56% Out)

LUC 565

Daily Trips: T = 3.56 (X) + 47.23 (50% In; 50% Out)

Sunday Peak Hour of Generator: T = 0.11(X) (54% In; 46% Out)

AM Peak-Hour: T = 0.66(X) + 8.42 (53% In; 47% Out) PM Peak-Hour: Ln(T) = 0.87Ln(X) + 0.29 (47% In; 53% Out)

## 2.3. Trip Distribution & Assignment

New external traffic expected to be generated was distributed and assigned to the roadway network based on the surrounding land uses and current patterns. The general distribution of new external project trips was assumed to be:

- 55% to/from the west via SC 46
- 45% to/from the east via SC 46



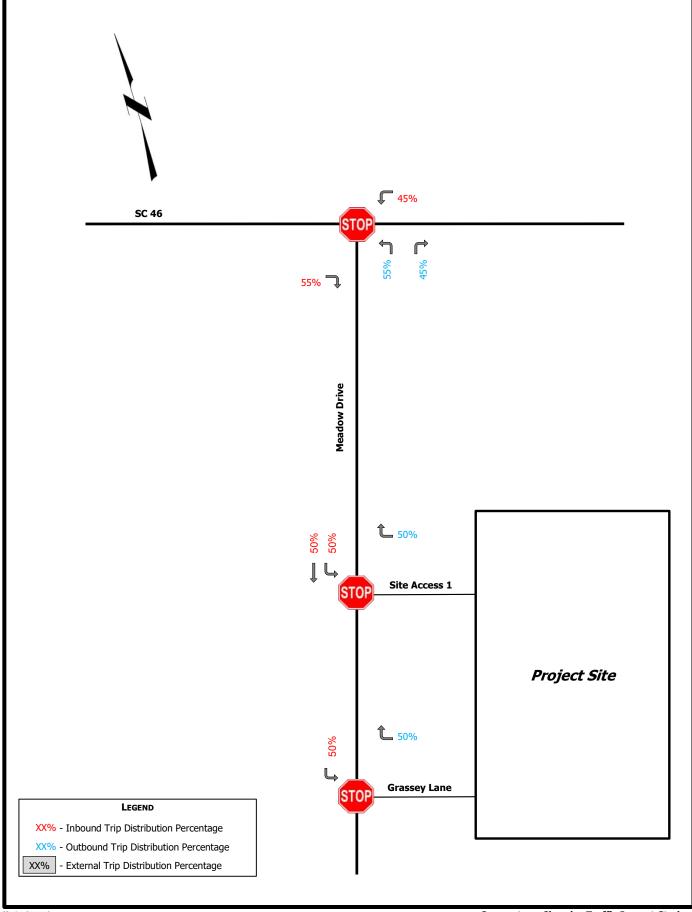
#### **RAMEY KEMP ASSOCIATES**

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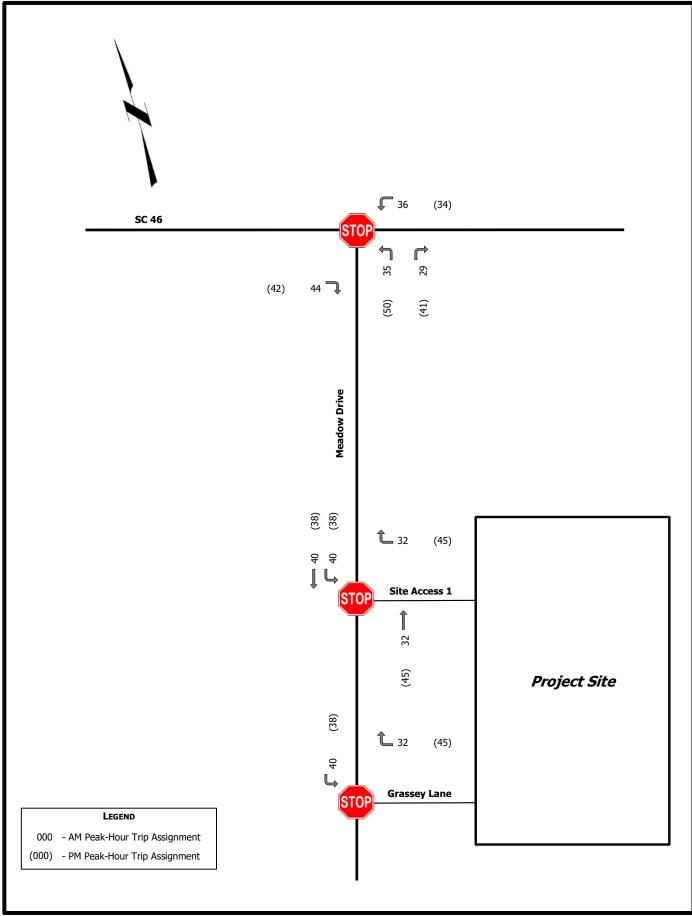
**Cornerstone Church TIS | 9** 

The directional distribution assumptions are shown in Figure 6. The assignment of the new project traffic during the AM and PM peaks are shown in Figure 7. The Sunday assignment of the new project traffic is illustrated in Figure 8

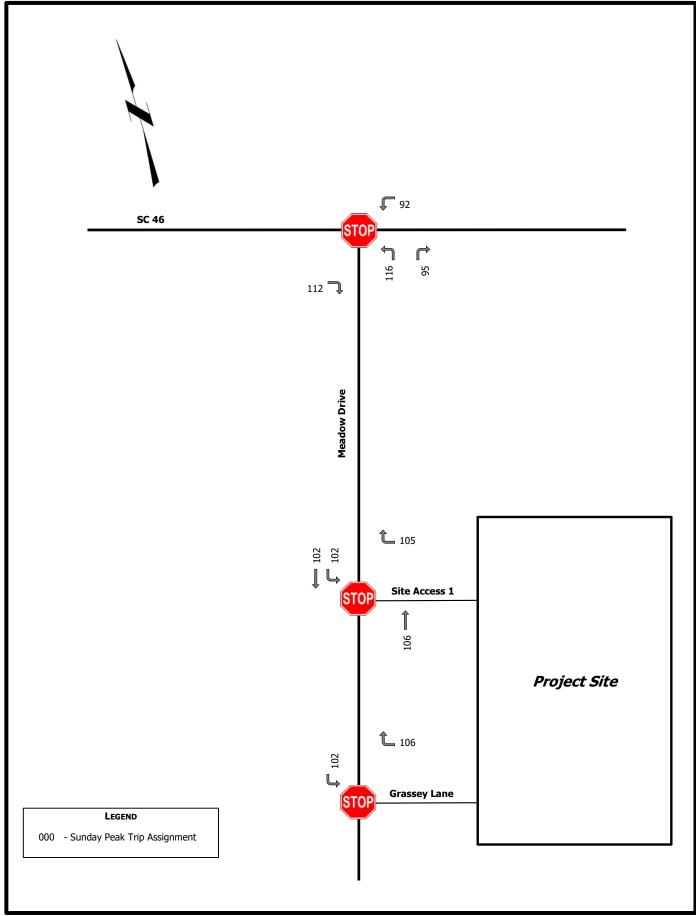














### 3. TRAFFIC VOLUME DEVELOPMENT

#### 3.1. Future No-Build Traffic Volumes

To develop the No-Build volumes, an annual background growth rate of 2.0% was applied to the 2023 traffic volumes. The annual growth rate was based on SCDOT count station data, existing traffic patterns, and expected growth in the area.

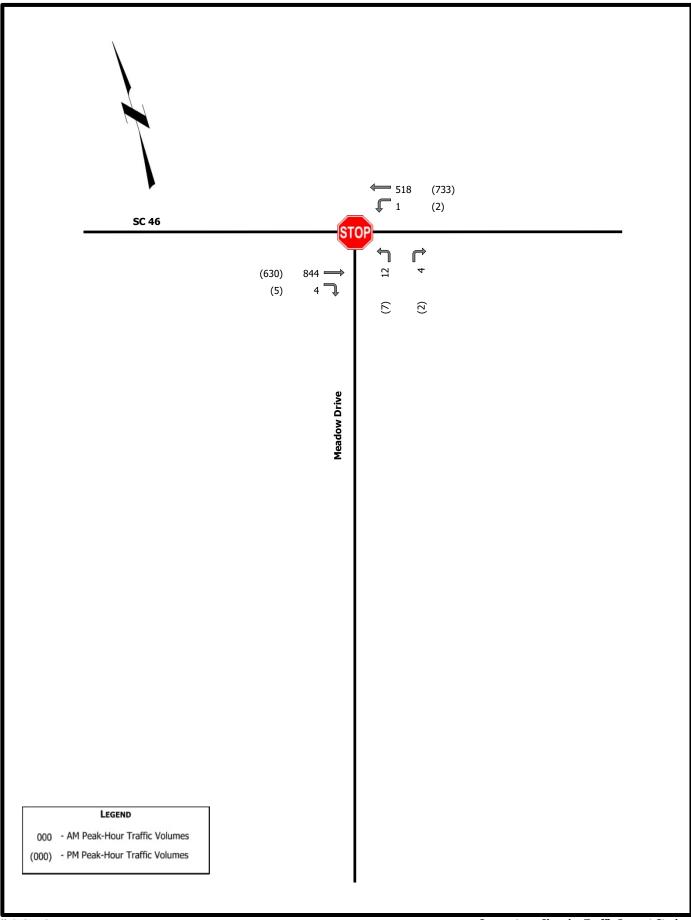
An adjacent development, *The May River Townhomes TIS*, was considered as vested traffic which considered 79 townhomes. The traffic volumes from the proposed development were included in the future volumes along SC 46.

The 2025 AM and PM No-Build volumes are illustrated in Figure 9. The 2025 Sunday No-Build volumes are illustrated in Figure 10.

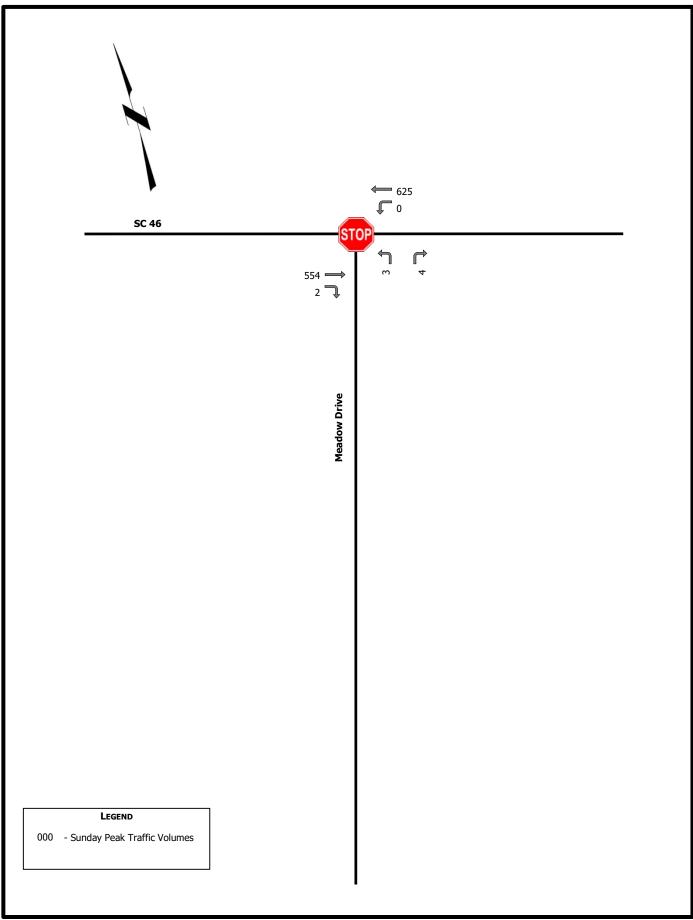
#### 3.2. Build-Out Traffic Volumes

The site generated traffic volumes were added to the 2025 No-Build traffic volumes to determine the future Build volumes. The 2025 AM and PM Build volumes and 2025 Sunday Build volumes are illustrated respectively in Figure 11 and Figure 12. Volume development worksheets are included in Appendix C.

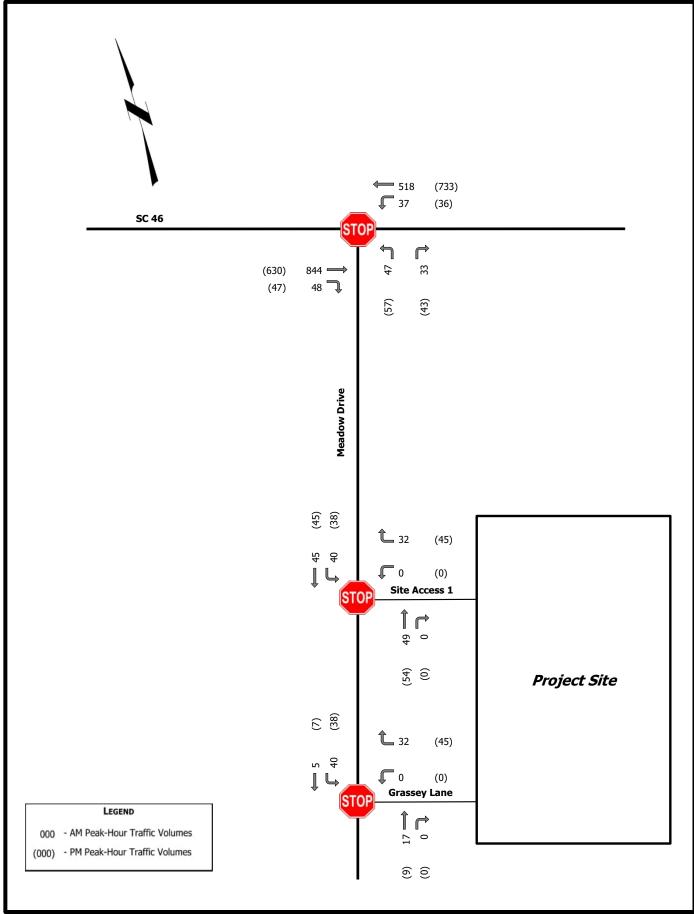




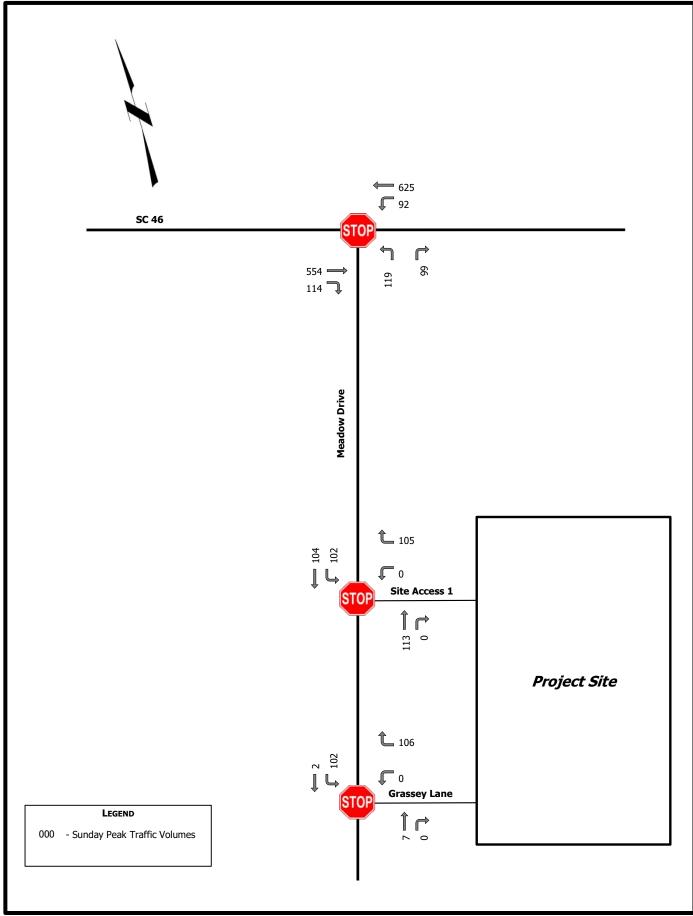














## 4. TRAFFIC IMPACT ANALYSIS

#### 4.1. Turn Lane Analysis

Auxiliary turn-lane analyses were conducted for the SC 46 & Meadow Drive intersection using the 2025 Build volumes. Turn lane analyses were considered based on the SCDOT Roadway Design Manual (RDM) Section 9.5.1.

Based on the anticipated build out volumes, a left-turn lane and a right-turn lane are warranted and recommended along SC 46 at Meadow Drive. Turn lane analyses are provided in Appendix D.

#### 4.2. Intersection LOS Analysis

Intersection analyses were conducted for the study intersections considering 2023 Existing conditions, 2025 No-Build conditions, and 2025 Build conditions. This analysis was conducted using the Transportation Research Board's *Highway Capacity Manual* 6<sup>th</sup> Edition (HCM 6<sup>th</sup> Edition) methodologies of the *Synchro*, Version 11 software.

Intersection level of service (LOS) grades range from LOS A to LOS F, which are directly related to the level of control delay at the intersection and characterize the operational conditions of the intersection traffic flow. LOS A operations typically represent ideal, free-flow conditions where vehicles experience little to no delays, and LOS F operations typically represent poor, forced-flow (bumper-to-bumper) conditions with high vehicular delays and are generally considered undesirable. Table 3 summarizes the *HCM* 6<sup>th</sup> Edition control delay thresholds associated with each LOS grade for unsignalized intersections.

As part of the intersection analysis, SCDOT's default *Synchro* parameters were utilized. A constant PHF of 0.92 was applied for future year analysis. Existing heavy vehicle percentages were utilized for all analysis scenarios, with a minimum percentage of 2% considered.



Moving forward.

Table 3 - HCM 6th Edition LOS Criteria for Unsignalized Intersections

Unsi	gnalized Intersections
LOS	Control Delay per Vehicle (seconds)
A	≤ 10
В	> 10 and ≤ 15
С	> 15 and ≤ 25
D	> 25 and ≤ 35
Е	> 35 and ≤ 50
F	> 50

Using the *Synchro* software, intersection analyses were conducted for the weekday AM peak-hour, weekday PM peak-hour, and Sunday peak time periods. The recommended turn lanes were considered in the build conditions. The results of the intersection AM and PM analyses results are summarized in Table 4. The Sunday peak intersection analyses results are summarized in Table 5.

**Table 4 - Intersection Analysis Results** 

			]	LOS/Delay	(seconds)			
Intersection	Approach		xisting itions	2025 No	o-Build itions	2025 Build Conditions		
		AM	PM	AM	PM	AM	PM	
SC 46 & Meadow Drive	$WB^1$	A/9.7	A/8.9	A/9.9	A/9.0	B/10.4	A/9.3	
SC 40 & Meadow Drive	NB <sup>2</sup>	D/26.7	D/25.8	D/29.4	D/28.4	E/41.5	E/43.7	
Meadow Drive & Site	WB <sup>2</sup>	-	-	-	-	A/8.7	A/8.8	
Access #1	SB <sup>1</sup>	-	-	-	-	A/7.4	A/7.4	
Meadow Drive &	WB <sup>2</sup>	-	-	-	-	A/8.5	A/8.5	
Grassey Lane	SB <sup>1</sup>	-	-	-	-	A/7.3	A/7.3	

<sup>&</sup>lt;sup>1</sup>LOS for major street left turn movement; <sup>2</sup>LOS for minor street approach



Moving forward.

Table 5 - Sunday Intersection Analysis Results

		LOS	5/Delay (secon	ds)					
Intersection	Approach	2023 Existing Conditions	2025 No- Build Conditions	2025 Build Conditions					
		Sunday Peak							
SC 46 & Meadow Drive	$WB^1$	A/0.0	A/0.0	A/9.6					
SC 40 & Meadow Dilve	NB <sup>2</sup>	C/16.7	C/17.7	F/97.9					
Meadow Drive & Site	WB <sup>2</sup>	-	-	A/9.4					
Access #1	SB <sup>1</sup>	-	-	A/7.7					
Meadow Drive &	WB <sup>2</sup>	-	-	A/8.8					
Grassey Lane	SB <sup>1</sup>	-	-	A/7.4					

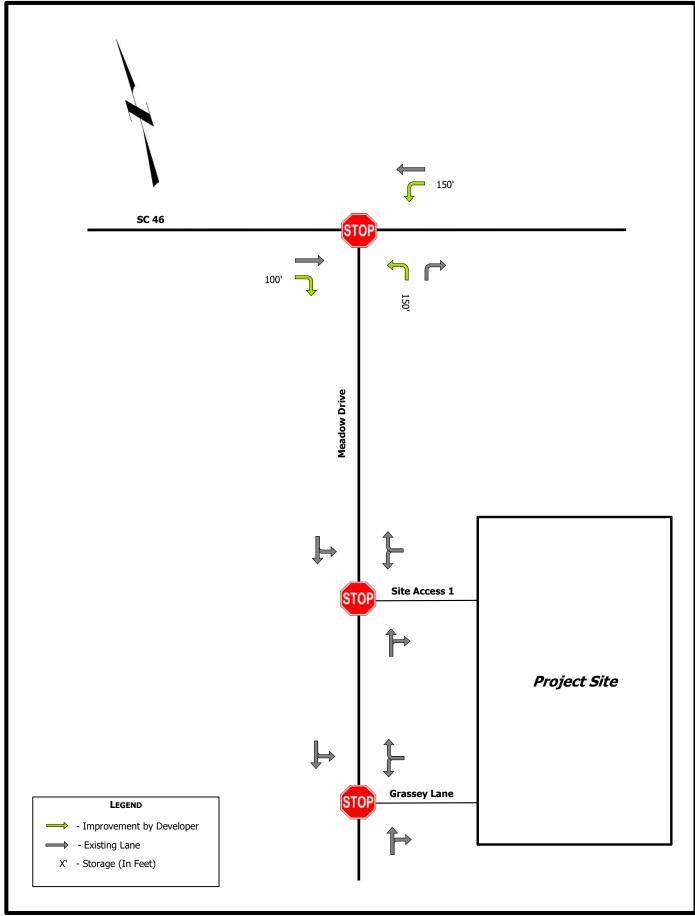
<sup>&</sup>lt;sup>1</sup>LOS for major street left turn movement; <sup>2</sup>LOS for minor street approach

The mainline of the existing intersection of SC 46 & Meadow Drive is expected to operate adequately with the proposed project in the 2025 Build conditions. The Meadow Drive approach is expected to experience delays, however this is typical of minor approaches of two-way stop-controlled intersections. The Meadow Drive approach to SC 46 is recommended to provide two egress lanes and one ingress lane. The Meadow Drive approach should be designed to provide proper sight distances and should meet SCDOT design criteria.

The proposed accesses are expected to operate adequately with one ingress and one egress lane. The site accesses should be designed to provide proper sight distances and should meet Town of Bluffton design criteria.

Figure 13 shows the proposed lane configuration for the Build conditions. The capacity analysis worksheets are provided in Appendix E.







Cornerstone Church - Traffic Impact Study

#### 5. SUMMARY OF FINDINGS AND RECOMMENDATIONS

A traffic impact study was conducted for the proposed Cornerstone Church development in accordance with SCDOT and Town of Bluffton guidelines. The development is proposed to be located on Meadow Drive south of SC 46 in the Town of Bluffton, South Carolina. The development is planned to consist of up to 800 seats and a Monday through Thursday day care with 120 students enrolled. Access to the site will be provided via one existing full access on Meadow Drive and via Grassey Lane.

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## **APPENDIX A**

## Scoping



#### **Katelyn Love**

From: Katelyn Love

**Sent:** Monday, August 14, 2023 4:31 PM

**To:** Johnson, Joshua A. **Cc:** Jeff Ingham

**Subject:** RE: Cornerstone Church TIS

Thank you, Josh. I reached out to Dillon today. He confirmed with the developer we could use their counts. We will proceed with the AM estimates on Meadow Drive.

Have a good evening, Katelyn

#### Katelyn Love, PE, PTOE Traffic Project Manager

C 803 385 7494

From: Johnson, Joshua A. < Johnson JA@scdot.org>

**Sent:** Monday, August 14, 2023 11:40 AM **To:** Katelyn Love <klove@rameykemp.com> **Cc:** Jeff Ingham <jingham@rameykemp.com>

Subject: RE: Cornerstone Church TIS

Katelyn, I can't authorize you to use counts from someone else's TIA. You'll have to coordinate this with them directly. However, if they permit you to use the counts then I agree to allow an existing traffic estimate for Meadow Drive.

#### Josh Johnson, PE, PTOE

District Traffic Engineer | SCDOT District 6



From: Katelyn Love < klove@rameykemp.com>

Sent: Friday, July 21, 2023 12:04 PM

**To:** Johnson, Joshua A. < <u>JohnsonJA@scdot.org</u>> **Cc:** Jeff Ingham < <u>jingham@rameykemp.com</u>>

Subject: RE: Cornerstone Church TIS

\*\*\* This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source. \*\*\*

There are 80 children each day with a total enrollment of 120. I don't think the client was aware of the May River TH development but thank you for looking into the projects.

Since we will need a weekday AM analysis and Meadow Drive serves ~25 single family homes would it be acceptable to use the May River TH mainline counts on SC 46 and use trip generation to estimate the ins/outs for Meadow Drive? I compared the PM counts as well as the PM trip gen to our counts and I think this could be a viable approach without waiting until the end of August for a count.

Let me know your thoughts.

Thank you, Katelyn

# **Katelyn Love, PE, PTOE Traffic Project Manager**

C 803 385 7494

From: Johnson, Joshua A. < Johnson JA@scdot.org >

**Sent:** Wednesday, July 19, 2023 10:32 AM **To:** Katelyn Love < <u>klove@rameykemp.com</u>> **Cc:** Jeff Ingham < jingham@rameykemp.com>

Subject: RE: Cornerstone Church TIS

What is the size of the daycare? If 70 students or less, I am not concerned. If larger, please include but you will need to get the AM traffic counts. If there is objection, you can submit a trip generation and distribution for my review and determination of necessary mitigation. I will need to see where the access is planned to SC 46 to include dimensions to nearby intersections/drives.

I have searched my records and found the "May River Townhomes" TIA from Kimley Horn which I did not technically review but I approved the mitigation because that was what I was recommending anyway. I have attached it here. This may be what you are referring to. There are no SCDOT projects in the area that I am aware of.

#### Thanks,

#### Josh Johnson, PE, PTOE

District Traffic Engineer | SCDOT District 6



From: Katelyn Love < klove@rameykemp.com>
Sent: Wednesday, July 12, 2023 8:28 AM
To: Johnson, Joshua A. < JohnsonJA@scdot.org>
Cc: Jeff Ingham < jingham@rameykemp.com>

**Subject:** Cornerstone Church TIS

\*\*\* This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source. \*\*\*

Josh,

The client for Cornerstone Church has asked for a Monday – Thursday day care be included now. We initially collected Sunday counts and Wednesday PM counts for the church analysis. Do we need to consider a weekday AM peak now with the day care? If so, to keep the project progressing would using the 2021 hourly site data from Station 07-0157 be acceptable?

The client mentioned SCDOT had a current project on SC 46 that included this study area. I do not see a project near Meadow Drive, but one that appears to terminate at SC 170. Is there another project I haven't found?

Thanks, Katelyn

Katelyn Love, PE, PTOE Traffic Project Manager C 803 385 7494



## **APPENDIX B**

## **Traffic Count Data**



735 Maryland St Columbia, SC 29201

We can't say we're the Best, but you Can!

File Name: SC 46 @ Meadow Dr Wednesday

Site Code:

Start Date : 04/19/2023

Page No : 1

Groups Printed- Passenger Vehicles - Heavy Vehicles - Buses

	SC 46 Meadow Dr SC 46														1		
														1			
		South	bound			Westb	ound			North	ound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Int. Total
16:00	0	0	0	0	1	188	0	0	2	0	1	0	0	162	3	0	357
16:15	0	0	0	0	0	181	0	0	2	0	1	0	0	137	0	0	321
16:30	0	0	0	0	1	155	0	0	1	0	0	0	0	161	1	0	319
16:45	0	0	0	0	0	165	0	0	2	0	0	0	0	137	1	0	305
Total	0	0	0	0	2	689	0	0	7	0	2	0	0	597	5	0	1302
17:00	0	0	0	0	0	146	0	0	1	0	2	0	0	188	1	0	338
17:15	0	0	0	0	1	166	0	0	2	0	2	0	0	141	2	0	314
17:30	0	0	0	0	0	139	0	0	0	0	0	0	0	152	2	0	293
17:45	0	0	0	0	1	175	0	0	0	0	1	0	0	149	2	0	328
Total	0	0	0	0	2	626	0	0	3	0	5	0	0	630	7	0	1273
Grand Total	0	0	0	0	4	1315	0	0	10	0	7	0	0	1227	12	0	2575
Apprch %	0	0	0	0	0.3	99.7	0	0	58.8	0	41.2	0	0	99	1	0	
Total %	0	0	0	0	0.2	51.1	0	0	0.4	0	0.3	0	0	47.7	0.5	0	
Passenger Vehicles	0	0	0	0	4	1305	0	0	10	0	7	0	0	1208	12	0	2546
% Passenger Vehicles	0	0	0	0	100	99.2	0	0	100	0	100	0	0	98.5	100	0	98.9
Heavy Vehicles	0	0	0	0	0	7	0	0	0	0	0	0	0	10	0	0	17
% Heavy Vehicles	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.8	0	0	0.7
Buses	0	0	0	0	0	3	0	0	0	0	0	0	0	9	0	0	12
% Buses	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0.7	0	0	0.5

735 Maryland St Columbia, SC 29201

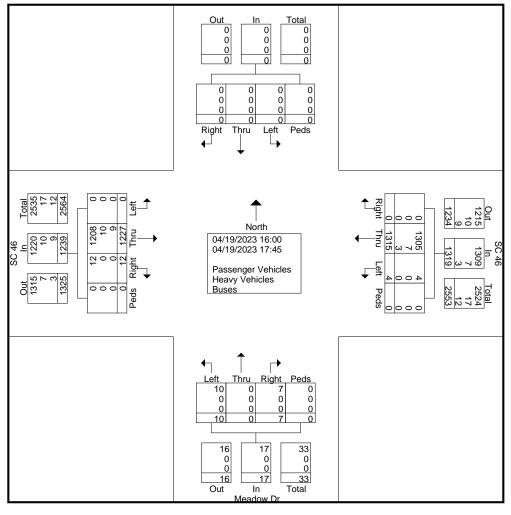
We can't say we're the Best, but you Can!

File Name: SC 46 @ Meadow Dr Wednesday

Site Code:

Start Date : 04/19/2023

Page No : 2



735 Maryland St Columbia, SC 29201

We can't say we're the Best, but you Can!

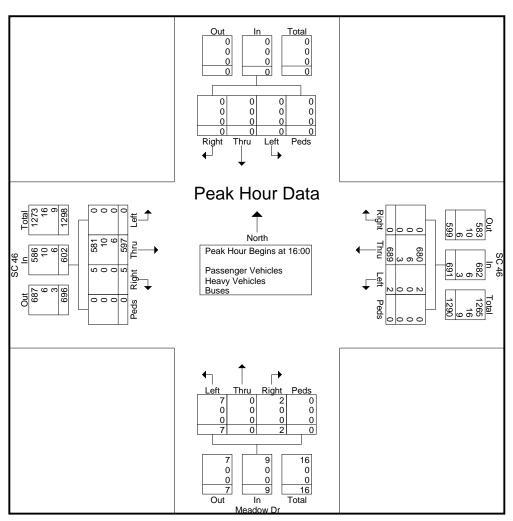
File Name: SC 46 @ Meadow Dr Wednesday

Site Code:

Start Date : 04/19/2023

Page No : 3

		So	uthbou	und			W	SC 46			Meadow Dr Northbound										
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ar	nalysis	From 1	6:00 to	17:45	- Peak	1 of 1															
Peak Hour fo	r Entire	Inters	ection I	Begins	at 16:0	0															
16:00	0	0	0	0	0	1	188	0	0	189	2	0	1	0	3	0	162	3	0	165	357
16:15	0	0	0	0	0	0	181	0	0	181	2	0	1	0	3	0	137	0	0	137	321
16:30	0	0	0	0	0	1	155	0	0	156	1	0	0	0	1	0	161	1	0	162	319
16:45	0	0	0	0	0	0	165	0	0	165	2	0	0	0	2	0	137	1	0	138	305
Total Volume	0	0	0	0	0	2	689	0	0	691	7	0	2	0	9	0	597	5	0	602	1302
% App. Total	0	0	0	0		0.3	99.7	0	0		77.8	0	22.2	0		0	99.2	0.8	0		
PHF	.000	.000	.000	.000	.000	.500	.916	.000	.000	.914	.875	.000	.500	.000	.750	.000	.921	.417	.000	.912	.912
Passenger Vehicles	0	0	0	0	0	2	680	0	0	682	7	0	2	0	9	0	581	5	0	586	1277
% Passenger Vehicles																					
Heavy Vehicles	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	10	0	0	10	16
% Heavy Vehicles	0	0	0	0	0	0	0.9	0	0	0.9	0	0	0	0	0	0	1.7	0	0	1.7	1.2
Buses	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	9
% Buses	0	0	0	0	0	0	0.4	0	0	0.4	0	0	0	0	0	0	1.0	0	0	1.0	0.7



735 Maryland St Columbia, SC 29201

We can't say we're the Best, but you Can!

File Name: SC 46 @ Meadow Dr Sunday

Site Code:

Start Date : 04/23/2023

Page No : 1

Groups Printed- Passenger Vehicles - Heavy Vehicles - Buses

	Groups Printed- Passenger Venicles - Heavy Venicles - Buses  SC 46 Meadow Dr SC 46															ı	
							-										
		South				Westb				Northb				Eastb			
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Int. Total
08:30	0	0	0	0	0	53	0	0	1	0	1	0	0	83	0	0	138
08:45	0	0	0	0	0	57	0	0	0	0	0	0	0	84	0	0	141
Total	0	0	0	0	0	110	0	0	1	0	1	0	0	167	0	0	279
00.00	0	0	0	0		7.4	0	ا م	0	0	0	0	0	60	1	0	407
09:00	0	0	0	0	0	74	0	0	0	0	0	0	0	62		0	137
09:15	0	0	0	0	0	91	0	0	0	0	0	0	0	105	0	0	196
09:30	0	0	0	0	0	108	0	0	0	0	1	0	0	103	0	0	212
09:45	0	0	0	0	0	99	0	0	0	0	0	0	0	94	0	0	193
Total	0	0	0	0	0	372	0	0	0	0	1	0	0	364	1	0	738
10:00	0	0	0	0	l o	109	0	0	1	0	0	0	0	108	0	0	218
10:15	Ô	0	0	0	Ö	131	Ö	ő	0	Ö	1	0	0	116	1	0	249
10:30	0	0	0	0	0	135	0	ő	0	0	0	0	0	95	0	0	230
10:45	0	0	0	0	0	140	0	ő	0	0	0	0	0	95	1	0	236
Total	0	0	0	0	0	515	0	0	1	0	1	0	0	414	2	0	933
rotar	O	O	Ü	0		010	O	0	•	Ū		0	O	7.7	_	Ü	000
11:00	0	0	0	0	0	146	0	0	0	0	4	0	0	97	0	0	247
11:15	0	0	0	0	0	135	0	0	0	0	0	0	0	131	0	0	266
11:30	0	0	0	0	0	160	0	0	1	0	0	0	0	117	1	0	279
11:45	0	0	0	0	0	139	0	0	2	0	1	0	0	128	1	0	271
Total	0	0	0	0	0	580	0	0	3	0	5	0	0	473	2	0	1063
12:00	0	0	0	0	۱ ۵	143	0	ا م	0	0	4	0	0	127	0	0	271
	0	0	0	0	0	-	0	0	0	0	1	0	0		0	0	
12:15 Grand Total	0	0	0	0	0	154	0	0	0	0	2	0	0	145	0	0	301
	0	0	0	0	0	1874	0	0	5	0	11	0	0	1690	5	0	3585
Apprch %	0	0	0	0	0	100	0	0	31.2	0	68.8	0	0	99.7	0.3	0	
Total %	0	0	0	0	0	52.3	0	0	0.1	0	0.3	0	0	47.1	0.1	0	
Passenger Vehicles	0	0	0	0	0	1870	0	0	5	0	11	0	0	1686	5	0	3577
% Passenger Vehicles	0	0	0	0	0	99.8	0	0	100	0	100	0	0	99.8	100	0	99.8
Heavy Vehicles	0	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	8
% Heavy Vehicles	0	0	0	0	0	0.2	0	0	0	0	0_	0	0	0.2	0	0	0.2
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## **SHORT COUNTS, LLC**

735 Maryland St Columbia, SC 29201

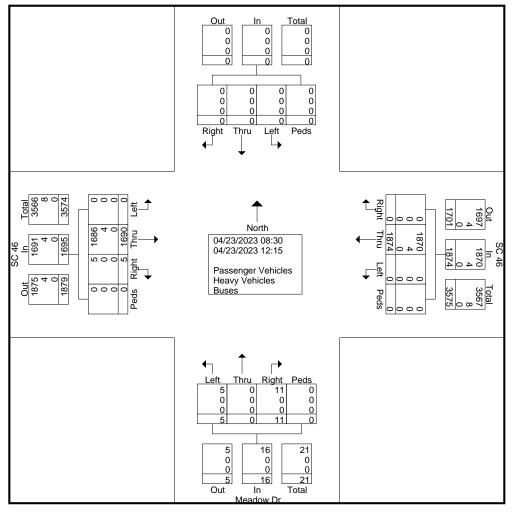
We can't say we're the Best, but you Can!

File Name: SC 46 @ Meadow Dr Sunday

Site Code:

Start Date : 04/23/2023

Page No : 2



## **SHORT COUNTS, LLC**

735 Maryland St Columbia, SC 29201

We can't say we're the Best, but you Can!

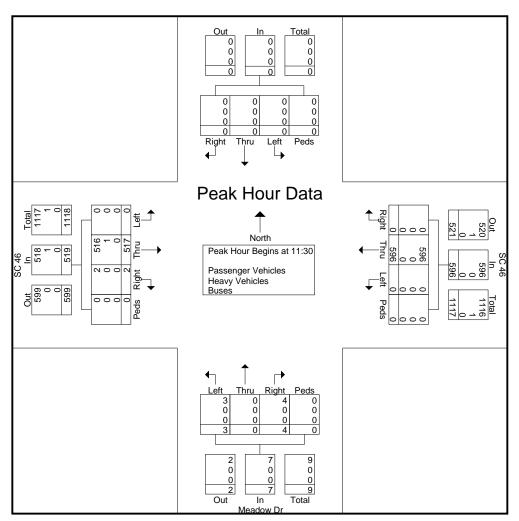
File Name: SC 46 @ Meadow Dr Sunday

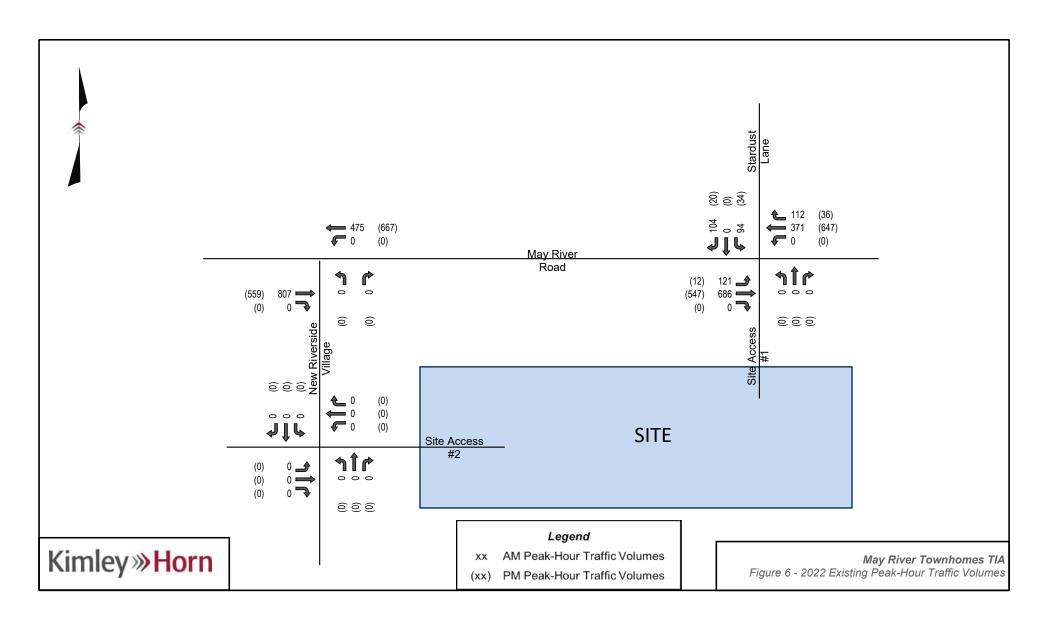
Site Code:

Start Date : 04/23/2023

Page No : 3

		So	uthbou	und			W	SC 46					eadow orthbo				E	SC 46			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Ar	nalysis	From 0	8:30 to	12:15	- Peak	1 of 1															
Peak Hour fo	r Entire	Inters	ection I	Begins	at 11:3	0															
11:30	0	0	0	0	0	0	160	0	0	160	1	0	0	0	1	0	117	1	0	118	279
11:45	0	0	0	0	0	0	139	0	0	139	2	0	1	0	3	0	128	1	0	129	271
12:00	0	0	0	0	0	0	143	0	0	143	0	0	1	0	1	0	127	0	0	127	271
12:15	0	0	0	0	0	0	154	0	0	154	0	0	2	0	2	0	145	0	0	145	301
Total Volume	0	0	0	0	0	0	596	0	0	596	3	0	4	0	7	0	517	2	0	519	1122
% App. Total	0	0	0	0		0	100	0	0		42.9	0	57.1	0		0	99.6	0.4	0		
PHF	.000	.000	.000	.000	.000	.000	.931	.000	.000	.931	.375	.000	.500	.000	.583	.000	.891	.500	.000	.895	.932
Passenger Vehicles	0	0	0	0	0	0	596	0	0	596	3	0	4	0	7	0	516	2	0	518	1121
% Passenger Vehicles																					
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2	0.1
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





## **APPENDIX C**

# Traffic Volume Development Worksheets & ITE Trip Generation Sheets



### SC 46 & Meadow Drive

TRAFFIC CONTROL: Unsignalized

DATE COUNTED: Wednesday, April 19, 2023

AM PEAK HOUR (7:00-8:00 AM)	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2022 Traffic Volumes	12		4				1	483			780	4
Years To Current Year (2023)	1	1	1	1	1	1	1	1	1	1	1	1
Yearly Growth Rate	2.0%		2.0%				2.0%	2.0%			2.0%	2.0%
Background Traffic Growth	0		0				0	10			16	0
2023 TRAFFIC VOLUMES	12		4				1	493			796	4
Years To Buildout (2025)	2		2				2	2			2	2
Yearly Growth Rate	2.0%		2.0%				2.0%	2.0%			2.0%	2.0%
Background Traffic Growth	0		0				0	20			32	0
Vested New Trips								5			16	
Vested Traffic Volumes								5			16	
2025 NO-BUILD TRAFFIC VOLUMES	12		4				1	518			844	4
Inbound Trip Distribution Percentage							45%					55%
Outbound Trip Distribution Percentage	55%		45%									
Inbound New Project Traffic							36					44
Outbound New Project Traffic	35		29									
Total New Project Traffic	35		29				36					44
2025 BUILD TRAFFIC VOLUMES	47		33				37	518			844	48

PM PEAK HOUR (4:00-5:00 PM)	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2023 TRAFFIC VOLUMES	7		2				2	689			597	5
Years To Current Year (2023)	0		0				0	0			0	0
Yearly Growth Rate	2.0%		2.0%				2.0%	2.0%			2.0%	2.0%
Background Traffic Growth	0		0				0	0			0	0
2023 TRAFFIC VOLUMES	7		2				2	689			597	5
Years To Buildout (2025)	2		2				2	2			2	2
Yearly Growth Rate	2.0%		2.0%				2.0%	2.0%			2.0%	2.0%
Background Traffic Growth	0		0				0	28			24	0
Vested New Trips								16			9	
Vested Traffic Volumes								16			9	
2025 NO-BUILD TRAFFIC VOLUMES	7		2				2	733			630	5
Inbound Trip Distribution Percentage							45%					55%
Outbound Trip Distribution Percentage	55%		45%									
Inbound New Project Traffic							34					42
Outbound New Project Traffic	50		41									
Total New Project Traffic	50		41				34					42
2025 BUILD TRAFFIC VOLUMES	57		43				36	733			630	47

### Meadow Drive & Site Access 1

TRAFFIC CONTROL: Unsignalized DATE COUNTED: N/A

SUNDAY PEAK HOUR	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2021 Traffic Volumes		16	0	0	5		0		0			
Years To Current Year (2023)		0	0	0	0		0		0			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2023 TRAFFIC VOLUMES		16	0	0	5		0		0			
Years To Buildout (2025)		2	2	2	2		2		2			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		1	0	0	0		0		0			
Vested New Trips												
Vested Traffic Volumes												
2025 NO-BUILD TRAFFIC VOLUMES		17	0	0	5		0		0			
Inbound Trip Distribution Percentage				50%	50%							
Outbound Trip Distribution Percentage		50%							50%			
Inbound New Project Traffic				40	40							
Outbound New Project Traffic		32							32			
Total New Project Traffic		32		40	40				32			
2025 BUILD TRAFFIC VOLUMES		49	0	40	45		0		32			

PM PEAK HOUR	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2023 TRAFFIC VOLUMES		9	0	0	7		0		0			
Years To Current Year (2023)		0	0	0	0		0		0			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2023 TRAFFIC VOLUMES		9	0	0	7		0		0			
Years To Buildout (2025)		2	2	2	2		2		2			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2025 NO-BUILD TRAFFIC VOLUMES		9	0	0	7		0		0			
Inbound Trip Distribution Percentage				50%	50%							
Outbound Trip Distribution Percentage		50%							50%			
Inbound New Project Traffic				38	38							
Outbound New Project Traffic		45							45			
Total New Project Traffic		45		38	38				45			
2025 BUILD TRAFFIC VOLUMES		54	0	38	45		0		45			

## **Meadow Drive & Grassey Lane**

TRAFFIC CONTROL: Unsignalized DATE COUNTED: N/A

SUNDAY PEAK HOUR	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2021 Traffic Volumes		16	0	0	5		0		0			
Years To Current Year (2023)		0	0	0	0		0		0			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2023 TRAFFIC VOLUMES		16	0	0	5		0		0			
Years To Buildout (2025)		2	2	2	2		2		2			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		1	0	0	0		0		0			
Vested New Trips												
Vested Traffic Volumes												
2025 NO-BUILD TRAFFIC VOLUMES		17	0	0	5		0		0			
Inbound Trip Distribution Percentage				50%								
Outbound Trip Distribution Percentage									50%			
Inbound New Project Traffic				40								
Outbound New Project Traffic									32			
Total New Project Traffic				40					32			
2025 BUILD TRAFFIC VOLUMES		17	0	40	5		0		32			

PM PEAK HOUR	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2023 TRAFFIC VOLUMES		9	0	0	7		0		0			
Years To Current Year (2023)		0	0	0	0		0		0			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2023 TRAFFIC VOLUMES		9	0	0	7		0		0			
Years To Buildout (2025)		2	2	2	2		2		2			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2025 NO-BUILD TRAFFIC VOLUMES		9	0	0	7		0		0			
Inbound Trip Distribution Percentage				50%								
Outbound Trip Distribution Percentage									50%			
Inbound New Project Traffic				38								
Outbound New Project Traffic									45			
Total New Project Traffic				38					45			
2025 BUILD TRAFFIC VOLUMES		9	0	38	7		0		45			

### **SC 46 & Meadow Drive**

TRAFFIC CONTROL: Unsignalized

DATE COUNTED: Sunday, April 23, 2023

SUNDAY PEAK HOUR (11:30 AM-12:30 PM)	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2023 Traffic Volumes	3		4				0	596			517	2
Years To Current Year (2023)	0	0	0	0	0	0	0	0	0	0	0	0
Yearly Growth Rate	2.0%		2.0%				2.0%	2.0%			2.0%	2.0%
Background Traffic Growth	0		0				0	0			0	0
2023 TRAFFIC VOLUMES	3		4				0	596			517	2
Years To Buildout (2025)	2		2				2	2			2	2
Yearly Growth Rate	2.0%		2.0%				2.0%	2.0%			2.0%	2.0%
Background Traffic Growth	0		0				0	24			21	0
Vested New Trips								5			16	
Vested Traffic Volumes								5			16	
2025 NO-BUILD TRAFFIC VOLUMES	3		4				0	625			554	2
Inbound Trip Distribution Percentage							45%					55%
Outbound Trip Distribution Percentage	55%		45%									
Inbound New Project Traffic							92					112
Outbound New Project Traffic	116		95									
Total New Project Traffic	116		95				92					112
2025 BUILD TRAFFIC VOLUMES	119		99				92	625			554	114

### **Meadow Drive & Site Access 1**

TRAFFIC CONTROL: Unsignalized

DATE COUNTED: N/A

SUNDAY PEAK HOUR	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2023 Traffic Volumes		7	0	0	2		0		0			
Years To Current Year (2023)	0	0	0	0	0	0	0	0	0	0	0	0
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2023 TRAFFIC VOLUMES		7	0	0	2		0		0			
Years To Buildout (2025)		2	2	2	2		2		2			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
Vested New Trips												
Vested Traffic Volumes												
2025 NO-BUILD TRAFFIC VOLUMES		7	0	0	2		0		0			
Inbound Trip Distribution Percentage				50%	50%							
Outbound Trip Distribution Percentage		50%							50%			
Inbound New Project Traffic				102	102							
Outbound New Project Traffic		106							105			
Total New Project Traffic		106		102	102				105			
2025 BUILD TRAFFIC VOLUMES		113	0	102	104		0		105			

## **Meadow Drive & Grassey Lane**

TRAFFIC CONTROL: Unsignalized

DATE COUNTED: N/A

SUNDAY PEAK HOUR	NBL	NBT	NBR	SBL	SBT	SBR	WBL	WBT	WBR	EBL	EBT	EBR
2023 Traffic Volumes		7	0	0	2		0		0			
Years To Current Year (2023)	0	0	0	0	0	0	0	0	0	0	0	0
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
2023 TRAFFIC VOLUMES		7	0	0	2		0		0			
Years To Buildout (2025)		2	2	2	2		2		2			
Yearly Growth Rate		2.0%	2.0%	2.0%	2.0%		2.0%		2.0%			
Background Traffic Growth		0	0	0	0		0		0			
Vested New Trips												
Vested Traffic Volumes												
2025 NO-BUILD TRAFFIC VOLUMES		7	0	0	2		0		0			
Inbound Trip Distribution Percentage				50%								
Outbound Trip Distribution Percentage									50%			
Inbound New Project Traffic				102								
Outbound New Project Traffic									106			
Total New Project Traffic				102					106			
2025 BUILD TRAFFIC VOLUMES		7	0	102	2		0		106			

#### ITETripGen Web-based App



0.70 Range of Rates:

0.24

R<sup>2</sup>:

0.90

0.27 - 2.27

Standard Deviation:

**Fitted Curve Equation:** 

Ln(T) = 0.91 Ln(X) + 0.12

**Directional Distribution:** 

Calculated Trip Ends:

25% entering, 75% exiting

Average Rate: 18 (Total), 4 (Entry), 14 (Exit) Fitted Curve: 21 (Total), 5 (Entry), 16 (Exit)

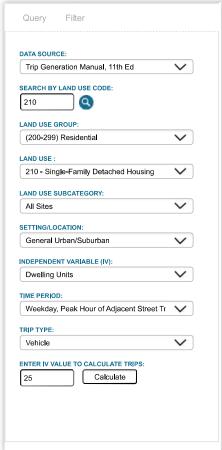


DATA STATISTICS

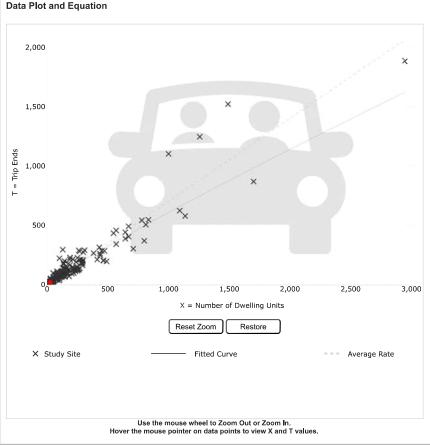




ITETripGen Web-based App Graph Look Up TGM Desk Reference



VERSION: 6.0.2 (UPDATES) | DATA: 11TH EDITION | TERMS AND CONDITIONS | PRIVACY | ITE MARKETPLACE

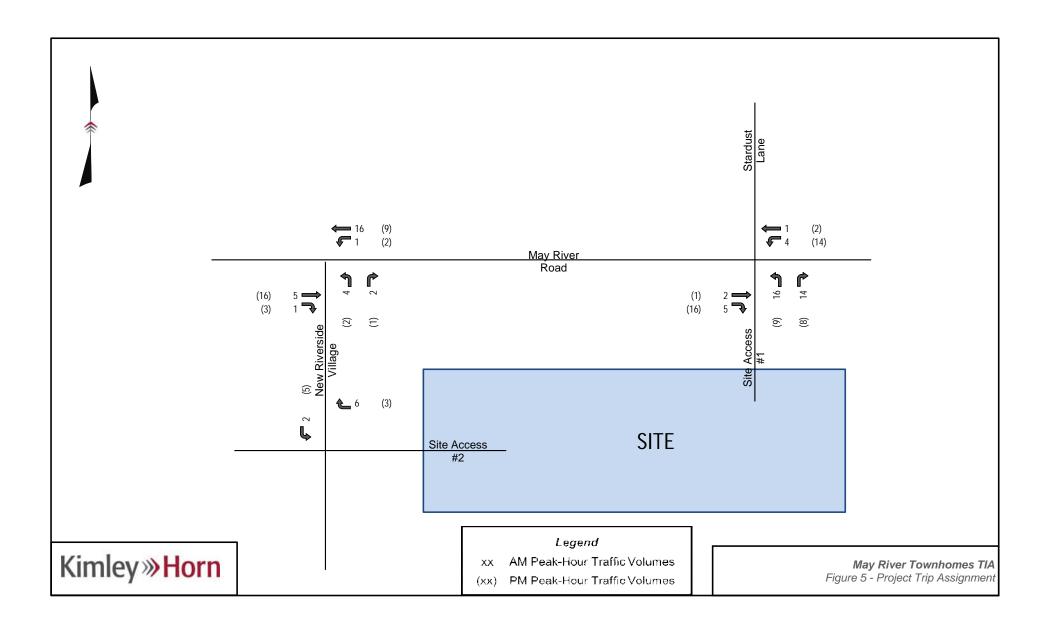


Land Use: Single-Family Detached Housing (210) Click for Description and Data Plots Independent Variable: **Dwelling Units** Time Period: Weekday Peak Hour of Adjacent Street Traffic One Hour Between 7 and 9 a.m. Setting/Location: General Urban/Suburban Trip Type: Vehicle **Number of Studies:** Avg. Num. of Dwelling Units: 226 Average Rate:

Add-ons to do more

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1/1 https://itetripgen.org/Query



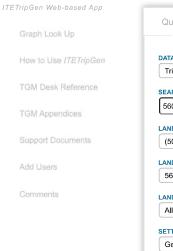
#### ITETripGen Web-based App

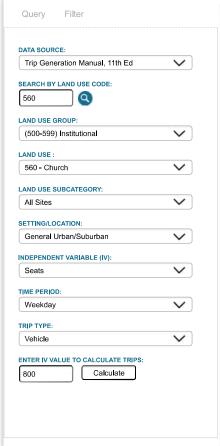


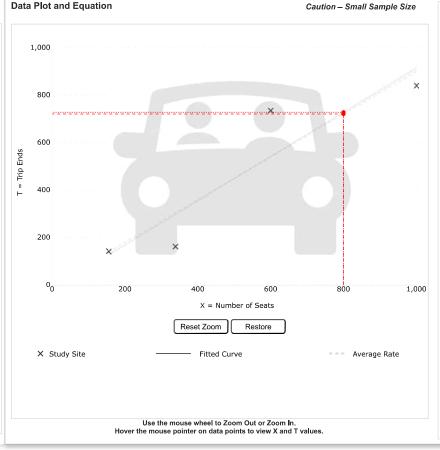


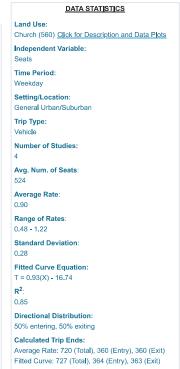


Graph Look Up









Add-ons to do more

V

V

V

V

V

V

V

#### ITETripGen Web-based App



Land Use:

Time Period:

Setting/Location: General Urban/Suburban

Number of Studies:

Avg. Num. of Seats:

Range of Rates: 0.04 - 0.07

Standard Deviation:

Fitted Curve Equation:

**Directional Distribution:** 60% entering, 40% exiting

Calculated Trip Ends:

Average Rate: 56 (Total), 34 (Entry), 22 (Exit)

Weekday

Trip Type:

Vehicle

378 Average Rate:

0.07

600

Independent Variable:

Peak Hour of Adjacent Street Traffic

One Hour Between 7 and 9 a.m.



DATA STATISTICS

Church (560) Click for Description and Data Plots





Graph Look Up

ITETripGen Web-based App Filter Query Graph Look Up DATA SOURCE: Trip Generation Manual, 11th Ed TGM Desk Reference SEARCH BY LAND USE CODE: 560 LAND USE GROUP: (500-599) Institutional LAND USE : 560 - Church LAND USE SUBCATEGORY: All Sites SETTING/LOCATION: General Urban/Suburban INDEPENDENT VARIABLE (IV): Seats

TIME PERIOD:

TRIP TYPE:

Vehicle

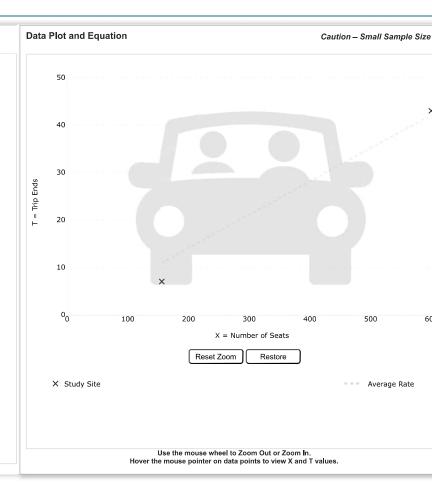
800

Weekday, Peak Hour of Adjacent Street Tr

Calculate

ENTER IV VALUE TO CALCULATE TRIPS:

VERSION: 6.0.2 (UPDATES) | DATA: 11TH EDITION | TERMS AND CONDITIONS | PRIVACY | ITE MARKETPLACE



Add-ons to do more

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https://itetripgen.org/Query 1/1

#### ITETripGen Web-based App

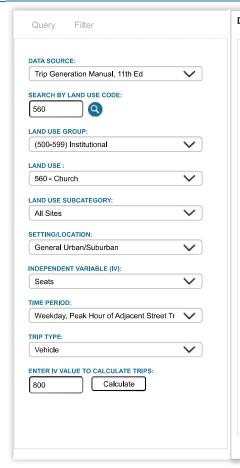


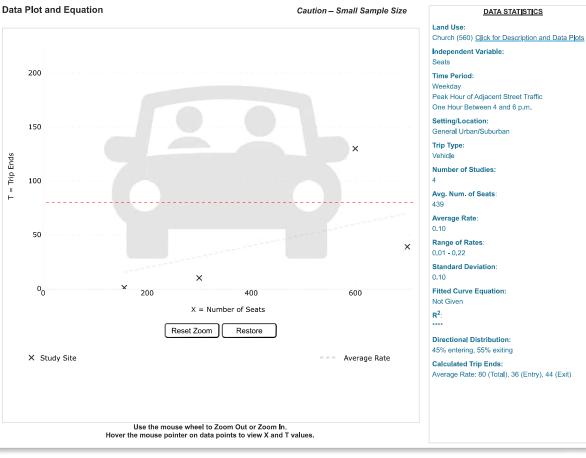






ITETripGen Web-based App Graph Look Up TGM Desk Reference





Add-ons to do more

#### ITETripGen Web-based App

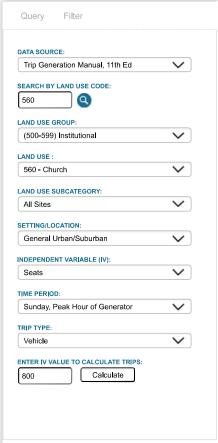


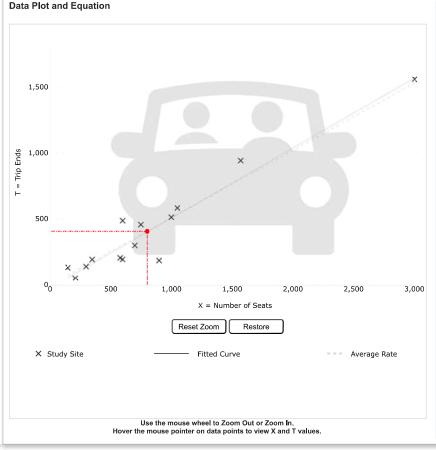






ITETripGen Web-based App Graph Look Up TGM Desk Reference







Add-ons to do more

#### ITETripGen Web-based App

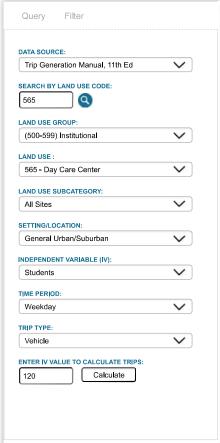


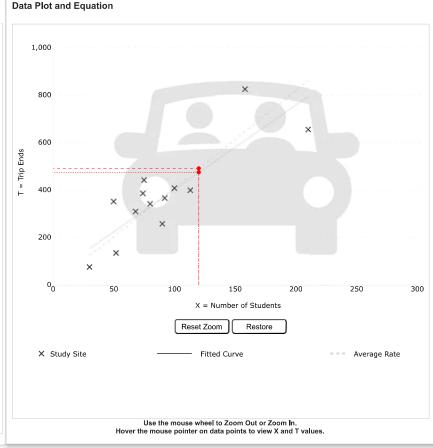




Graph Look Up









Directional Distribution:

50% entering, 50% exiting Calculated Trip Ends:

Average Rate: 491 (Total), 245 (Entry), 246 (Exit)

Fitted Curve: 474 (Total), 237 (Entry), 237 (Exit)

Add-ons to do more

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1/1 https://itetripgen.org/Query

#### ITETripGen Web-based App

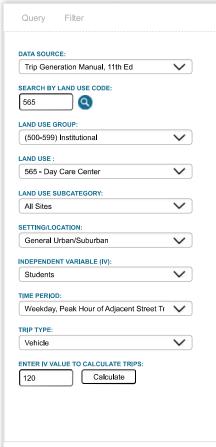


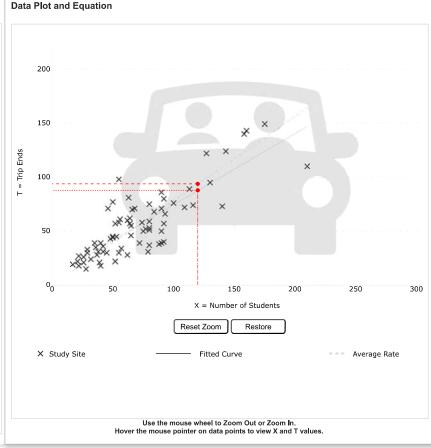


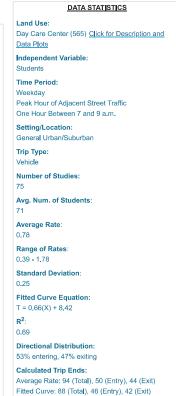




ITETripGen Web-based App Graph Look Up TGM Desk Reference







Add-ons to do more

V

V

V

V

V

V

V

Weekday, Peak Hour of Adjacent Street Tr

Calculate

ENTER IV VALUE TO CALCULATE TRIPS:

#### ITETripGen Web-based App









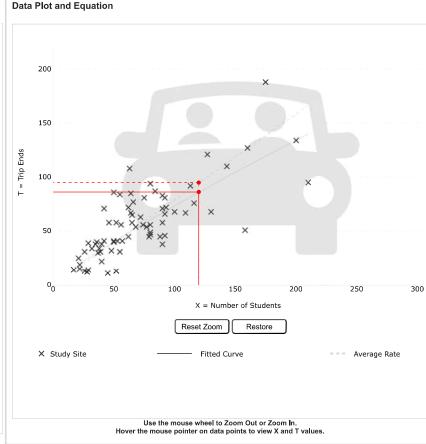
Graph Look Up

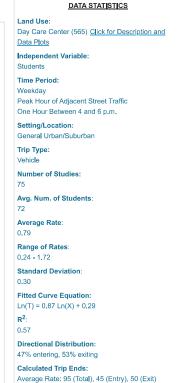
ITETripGen Web-based App Filter Query Graph Look Up DATA SOURCE: Trip Generation Manual, 11th Ed TGM Desk Reference SEARCH BY LAND USE CODE: 565 LAND USE GROUP: (500-599) Institutional LAND USE : 565 - Day Care Center LAND USE SUBCATEGORY: All Sites SETTING/LOCATION: General Urban/Suburban INDEPENDENT VARIABLE (IV): Students TIME PERIOD:

TRIP TYPE:

Vehicle

120





Fitted Curve: 86 (Total), 40 (Entry), 46 (Exit)

Add-ons to do more

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#### ITETripGen Web-based App



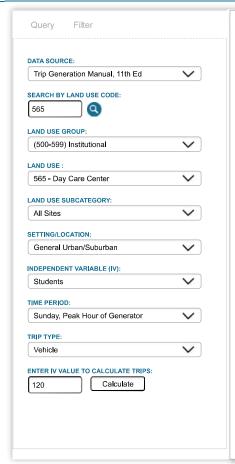


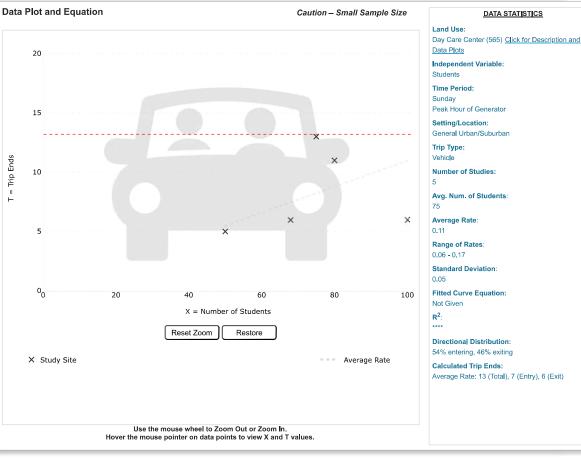


1/1



ITETripGen Web-based App Graph Look Up TGM Desk Reference





Add-ons to do more

VERSION: 6.0.2 (UPDATES) | DATA: 11TH EDITION | TERMS AND CONDITIONS | PRIVACY | ITE MARKETPLACE

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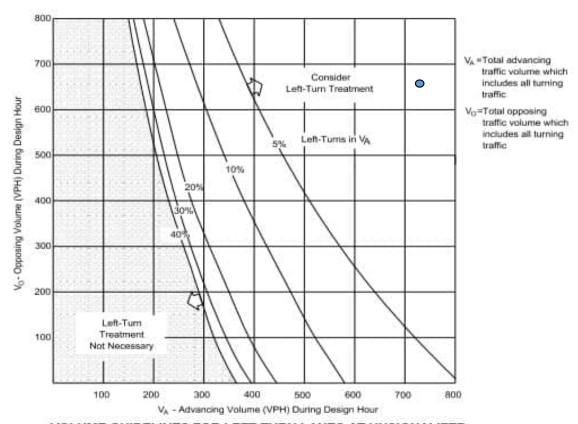
## **APPENDIX D**

## **Turn Lane Analysis Worksheets**



## Cornerstone Church TIS LEFT-TURN LANE WARRANT REVIEW

March 2017 INTERSECTIONS 9.5-9



## VOLUME GUIDELINES FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS (40 mph) Figure 9.5-G

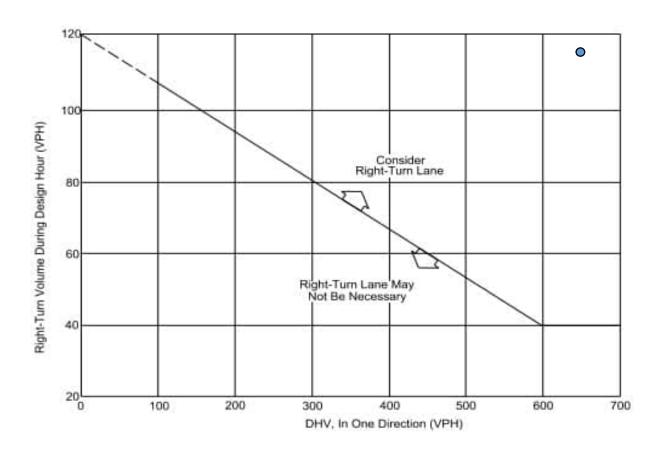
INTERSECTION: SC 46 & Meadow Drive

MOVEMENT: Westbound left turn

SCENARIO	Advancing Volume (V <sub>a</sub> )	Westbound left turn	Opposing Volume (V <sub>o</sub> )	Left Turn % of V <sub>a</sub>	Symbol
Sunday Build	717	92	668	12.8%	0

## Cornerstone Church TIS RIGHT-TURN LANE WARRANT REVIEW

9.5-2 INTERSECTIONS March 2017



Note: For highways with a design speed below 50 miles per hour with a DHV < 300 and where right turns > 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

## GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

#### Figure 9.5-A

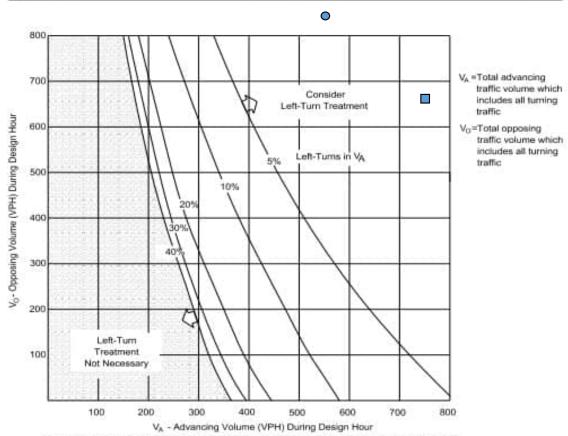
INTERSECTION: SC 46 & Meadow Drive

MOVEMENT: Eastbound Right Turn

SCENARIO	Design Hour Volume	Right Turn Volume	Symbol
Sunday Build 11am	668	114	•

## Cornerstone Church TIS LEFT-TURN LANE WARRANT REVIEW





## VOLUME GUIDELINES FOR LEFT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS (40 mph) Figure 9.5-G

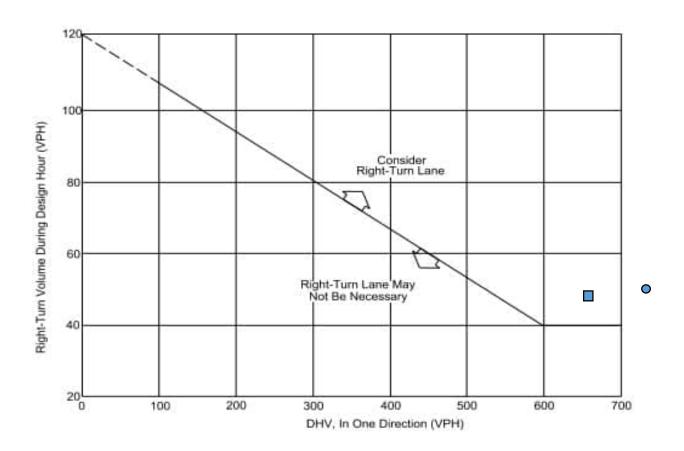
INTERSECTION: SC 46 & Meadow Drive

MOVEMENT: Westbound left turn

SCENARIO	Advancing Volume (V <sub>a</sub> )	Westbound left turn	Opposing Volume (V <sub>o</sub> )	Left Turn % of V <sub>a</sub>	Symbol
AM Build	555	37	892	6.7%	0
PM Build	769	36	677	4.7%	

## Cornerstone Church TIS RIGHT-TURN LANE WARRANT REVIEW

9.5-2 INTERSECTIONS March 2017



Note: For highways with a design speed below 50 miles per hour with a DHV < 300 and where right turns > 40, an adjustment should be used. To read the vertical axis of the chart, subtract 20 from the actual number of right turns.

## GUIDELINES FOR RIGHT-TURN LANES AT UNSIGNALIZED INTERSECTIONS ON TWO-LANE HIGHWAYS

## Figure 9.5-A

INTERSECTION: SC 46 & Meadow Drive

MOVEMENT: Eastbound Right Turn

SCENARIO	Design Hour Volume	Right Turn Volume	Symbol
2025 AM Build	892	48	•
2025 PM Build	677	47	

## **APPENDIX E**

## **Capacity Analysis**



## **2023 – Existing Conditions**



Intersection							
Int Delay, s/veh	0.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>^</b>	7	7	<b>^</b>	7	7	
Traffic Vol, veh/h	796	4	1	493	12	4	
Future Vol, veh/h	796	4	1	493	12	4	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-		-	None	-	None	
Storage Length	-	100	150	-	150	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	865	4	1	536	13	4	
WWW.CT IOW	000	•	•	000	10	•	
	//ajor1		Major2		Minor1		
Conflicting Flow All	0	0	869	0	1403	865	
Stage 1	-	-	-	-	865	-	
Stage 2	-	-	-	-	538	-	
Critical Hdwy	-	-	4.12	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	-	-	2.218	-	3.518	3.318	
Pot Cap-1 Maneuver	-	-	775	-	154	353	
Stage 1	-	-	-	-	412	-	
Stage 2	_	-	_	-	585	-	
Platoon blocked, %	-	-		_			
Mov Cap-1 Maneuver	_	_	775	_	154	353	
Mov Cap-2 Maneuver	_	_	-	_	154	-	
Stage 1	_	_	_	_	412	_	
Stage 2	_		_		584	_	
Olaye Z					JU <del>-1</del>		
Approach	EB		WB		NB		
HCM Control Delay, s	0		0		26.7		
HCM LOS					D		
Minor Lane/Major Mvm	+ 1	NBLn11	מי ומוא	EBT	EBR	WBL	
	<u> </u>						
Capacity (veh/h)		154	353	-	-	775	
HCM Lane V/C Ratio		0.085		-		0.001	
					-	9.7	
HCM Control Delay (s)		30.5	15.3	-			
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh)		30.5 D	15.3 C	- -	<u>-</u>	A 0	

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^</b>	7	ሻ	<b>^</b>	7	7
Traffic Vol, veh/h	597	5	2	689	7	2
Future Vol, veh/h	597	5	2	689	7	2
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	_		-	None	-	None
Storage Length	_	100	150	-	150	0
Veh in Median Storag	e,# 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	649	5	2	749	8	2
IVIVIII( I IOW	043	J		143	U	2
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	654	0	1402	649
Stage 1	-	-	_	-	649	-
Stage 2	-	-	-	-	753	-
Critical Hdwy	_	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	_	_	-	_	5.42	-
Critical Hdwy Stg 2	_	_	_	-	5.42	_
Follow-up Hdwy	_	_	2.218		3.518	
Pot Cap-1 Maneuver	_	_	933	-	154	470
Stage 1	_	_	-	_	520	-
Stage 2		_	_	_	465	_
Platoon blocked, %	-	_	_	_	400	_
		-	933		154	470
Mov Cap-1 Maneuver		-		-		
Mov Cap-2 Maneuver		-	-	-	154	-
Stage 1	-	-	-	-	520	-
Stage 2	-	-	-	-	464	-
Approach	EB		WB		NB	
HCM Control Delay, s			0		25.8	
HCM LOS	•		U		D	
TIOWI LOO						
Minor Lane/Major Mvr	nt I	NBLn11		EBT	EBR	WBL
Capacity (veh/h)		154	470	-	-	933
HCM Lane V/C Ratio		0.049		-	-	0.002
HCM Control Delay (s	5)	29.6	12.7	-	-	8.9
HCM Lane LOS		D	В	-	-	Α
HCM 95th %tile Q(veh	۱)	0.2	0	-	-	0

Intersection									
Int Delay, s/veh	0.1								
<u> </u>		EDD	WDI	WDT	NDI	NDD		J	
Movement Configurations	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations	<b>↑</b> 517	<b>7</b>	7	<b>1</b>	7	4			
Traffic Vol, veh/h Future Vol, veh/h	517	2	0	596 596	3	4			
-	517	0	0	596	0	0			
Conflicting Peds, #/hr Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	riee -	None	riee -		Stop -	None			
	-	100	150	None -	150	None 0			
Storage Length Veh in Median Storage		100	150	0	0	-			
				0	0				
Grade, % Peak Hour Factor	92	92	92	92	92	92			
	92	92	92	92	92	92			
Heavy Vehicles, % Mvmt Flow	562	2	0	648	3	4			
IVIVIIIL FIOW	302		U	040	3	4			
Major/Minor	Major1		Major2	<u> </u>	Minor1				
Conflicting Flow All	0	0	564	0	1210	562		_	
Stage 1	-	-	-	-	562	-			
Stage 2	-	-	-	-	648	-			
Critical Hdwy	-	-	4.12	-	6.42	6.22			
Critical Hdwy Stg 1	-	-	-	-	5.42	-			
Critical Hdwy Stg 2	-	-	-	-	5.42	-			
Follow-up Hdwy	-	-	2.218	-	3.518	3.318			
Pot Cap-1 Maneuver	-	-	1008	-	202	526			
Stage 1	-	-	-	-	571	-			
Stage 2	-	-	-	-	521	-			
Platoon blocked, %	-	-		-					
Mov Cap-1 Maneuver	-	-	1008	-	202	526			
Mov Cap-2 Maneuver	-	-	-	-	202	-			
Stage 1	-	-	-	-	571	-			
Stage 2	-	-	-	-	521	-			
A mana a a b	ED		MD		ND				
Approach	EB		WB		NB				
HCM Control Delay, s	0		0		16.7				
HCM LOS					С				
Minor Lane/Major Mvm	nt 1	NBLn11	NBLn2	EBT	EBR	WBL	WBT		
Capacity (veh/h)		202	526	-		1008	-		
HCM Lane V/C Ratio		0.016		<u>-</u>	_	-	_		
HCM Control Delay (s)		23.1	11.9	_	_	0	_		
HCM Lane LOS		C	В	_	_	A	<u>-</u>		
HCM 95th %tile Q(veh	)	0	0	_	_	0	_		
HOW JOHN JOHNE W(VEI)	)	U	U			U	_		

## **2025 No-Build Conditions**



Intersection						
Int Delay, s/veh	0.1					
		EDD	WDI	WDT	NDI	NDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	7	7	•	ሻ	7
Traffic Vol, veh/h	554	2	0	625	3	4
Future Vol, veh/h	554	2	0	625	3	4
Conflicting Peds, #/hr	0	0	0	0	0	0
3	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	100	150	-	150	0
Veh in Median Storage, #	<del>+</del> 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	602	2	0	679	3	4
Major/Minor M	nior1		Majara		Minor1	
	ajor1		Major2		Minor1	000
Conflicting Flow All	0	0	604	0	1281	602
Stage 1	-	-	-	-	602	-
Stage 2	-	-	-	-	679	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver	-	-	974	-	183	500
Stage 1	-	-	-	-	547	-
Stage 2	-	-	-	-	504	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	974	-	183	500
Mov Cap-2 Maneuver	-	-	-	-	183	-
Stage 1	_	-	_	_	547	-
Stage 2	_	_	_	_	504	_
5 ta. go _						
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		17.7	
HCM LOS					С	
Minor Lane/Major Mvmt	1	NBLn11	VRI n2	EBT	EBR	WBL
	-	183	500	LDI -	LDIN	974
Capacity (veh/h) HCM Lane V/C Ratio		0.018				
		25		-	-	0
HCM Long LOS			12.3	-	-	
HCM CEth (/tile O(veh)		D	В	-	-	A
HCM 95th %tile Q(veh)		0.1	0	-	-	0

Intersection							
Int Delay, s/veh	0.3						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>^</b>	7	*	<b>↑</b>	7	7	
Traffic Vol, veh/h	844	4	1	518	12	4	
Future Vol, veh/h	844	4	1	518	12	4	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		None	-	None	-	None	
Storage Length	_	100	150	-	150	0	
Veh in Median Storage	e,# 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	917	4	1	563	13	4	
IVIVIIICT IOW	517	7		505	10		
Major/Minor	Major1		Major2	1	Minor1		
Conflicting Flow All	0	0	921	0	1482	917	
Stage 1	-	-	-	-	917	-	
Stage 2	-	-	-	-	565	-	
Critical Hdwy	-	-	4.12	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	_	-	-	-	5.42	-	
Follow-up Hdwy	-	-	2.218	-	3.518	3.318	
Pot Cap-1 Maneuver	-	-	741	-	138	330	
Stage 1	-	-	-	-	390	-	
Stage 2	_	-	-	-	569	-	
Platoon blocked, %	_	-		_			
Mov Cap-1 Maneuver	_	_	741	_	138	330	
Mov Cap-2 Maneuver	_	_	-	_	138	-	
Stage 1	_	_	_	_	390	_	
Stage 2	_	_	_	_	568	_	
Stage 2			-		500		
Approach	EB		WB		NB		
HCM Control Delay, s	0		0		29.4		
HCM LOS					D		
NA:	-4 1	VIDL 4 1	VIDI 0	EDT	EDD	WDI	
Minor Lane/Major Mvn	nt I	NBLn11		EBT	EBR		
Capacity (veh/h)		138	330	-	-		
		0.00E	0.013	-	-	0.001	
HCM Lane V/C Ratio							
HCM Lane V/C Ratio HCM Control Delay (s)	)	33.8	16.1	-	-	0.0	
HCM Lane V/C Ratio				- -	-	9.9 A 0	

Intersection						
Int Delay, s/veh	0.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>↑</b>	7	7	<b>^</b>	7	7
Traffic Vol, veh/h	630	5	2	733	7	2
Future Vol, veh/h	630	5	2	733	7	2
Conflicting Peds, #/hr		0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-	None	-	None
Storage Length	-	100	150	-	150	0
Veh in Median Storag	je,# 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	685	5	2	797	8	2
IVIVIIIL FIOW	000	ວ	2	191	0	2
Major/Minor	Major1	l	Major2	ľ	Minor1	
Conflicting Flow All	0	0	690	0	1486	685
Stage 1	-	-	-	-	685	-
Stage 2	-	-	-	-	801	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	_	-	_	5.42	_
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	_	_	2.218	_	3.518	
Pot Cap-1 Maneuver	_	_	905	_	137	448
Stage 1	_	_	-	_	500	-
Stage 2	_		_	_	442	_
Platoon blocked, %	_	_	-	_	442	-
Mov Cap-1 Maneuve		-	905		137	448
		-		-		
Mov Cap-2 Maneuver		-	-	-	137	-
Stage 1	-	-	-	-	500	-
Stage 2	-	-	-	-	441	-
Approach	EB		WB		NB	
HCM Control Delay, s			0		28.4	
HCM LOS	, 0		U		D	
TIOW LOS					U	
Minor Lane/Major Mv	mt	NBLn1 I	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		137	448	-	-	905
HCM Lane V/C Ratio		0.056	0.005	-	-	0.002
HCM Control Delay (s	s)	32.8	13.1	-	-	9
HCM Lane LOS		D	В	-	-	A
HCM 95th %tile Q(vel	h)	0.2	0	-	-	0
	•					

## **2025 No-Build Conditions**



Int Delay, s/veh	Intersection						
Lane Configurations	Int Delay, s/veh	3					
Lane Configurations	Movement	EBT	EBR	WBL	WBT	NBL	NBR
Traffic Vol, veh/h							
Future Vol, veh/h							
Conflicting Peds, #/hr   O   O   O   O   O   O   Sign Control   Free   Free   Free   Free   Free   Stop   Stop   RT Channelized   - None   - None   - None   Storage Length   - 100   150   - 150   O   O   O   O   O   O   O   O   O							
Sign Control         Free RTC Pree RTC Pree RTC Pree RTC Promotion RT Channelized         Free RTC Pree RTC Pree RTC Promotion RT							
RT Channelized         - None         - None         - None           Storage Length         - 100         150         - 150         0           Veh in Median Storage, # 0         0         0         -         -         0         0         -           Grade, %         0         0         0         -         -         0         0         -           Peak Hour Factor         92							
Storage Length							
Veh in Median Storage, #         0         -         -         0         0         -           Grade, %         0         -         -         0         0         -           Peak Hour Factor         92         92         92         92         92         92           Heavy Vehicles, %         2         3         4         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 <td< td=""><td></td><td>-</td><td></td><td>150</td><td></td><td>150</td><td></td></td<>		-		150		150	
Grade, %         0         -         -         0         0         -           Peak Hour Factor         92         47         7         92         92         92         92         92         92         92         92         92         92         92         92         92		# 0			0		
Peak Hour Factor         92         47           Major / Minor II         Major / Minor II         Major / Minor II         Minor II </td <td></td> <td></td> <td>-</td> <td>_</td> <td></td> <td></td> <td>_</td>			-	_			_
Major/Minor				92			
Mymit Flow         685         51         39         797         62         47           Major/Minor         Major1         Major2         Minor1           Conflicting Flow All         0         0         736         0         1560         685           Stage 1         -         -         -         685         -           Stage 2         -         -         -         685         -           Critical Hdwy         -         -         4.12         -         6.42         6.22           Critical Hdwy Stg 1         -         -         -         5.42         -         -           Critical Hdwy Stg 2         -         -         -         5.42         -         -           Follow-up Hdwy         -         -         2.218         -         3.518         3.318           Pot Cap-1 Maneuver         -         870         -         123         448           Stage 1         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Major/Minor         Major1         Major2         Minor1           Conflicting Flow All         0         0         736         0         1560         685           Stage 1         -         -         -         685         -           Stage 2         -         -         -         875         -           Critical Hdwy         -         4.12         -         6.42         6.22           Critical Hdwy Stg 1         -         -         -         5.42         -           Follow-up Hdwy         -         -         2.218         -         3.518         3.318           Pot Cap-1 Maneuver         -         870         -         123         448           Stage 1         -         -         -         500         -           Stage 2         -         -         -         408         -           Platoon blocked, %         -         -         -         -         117         448           Mov Cap-1 Maneuver         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         117         -           Stage 1         -							
Conflicting Flow All         0         0         736         0         1560         685           Stage 1         -         -         -         685         -           Stage 2         -         -         -         875         -           Critical Hdwy         -         -         4.12         -         6.42         6.22           Critical Hdwy Stg 1         -         -         -         5.42         -           Critical Hdwy Stg 2         -         -         -         5.42         -           Follow-up Hdwy         -         -         2.218         -         3.518         3.318           Pot Cap-1 Maneuver         -         870         -         123         448           Stage 1         -         -         -         500         -           Stage 2         -         -         -         408         -           Mov Cap-1 Maneuver         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         117         -           Stage 1         -         -         -         500         -           Stage 2	IVIVIIICT IOW	000	O I	00	131	02	71
Conflicting Flow All         0         0         736         0         1560         685           Stage 1         -         -         -         685         -           Stage 2         -         -         -         875         -           Critical Hdwy         -         -         4.12         -         6.42         6.22           Critical Hdwy Stg 1         -         -         -         5.42         -           Critical Hdwy Stg 2         -         -         -         5.42         -           Follow-up Hdwy         -         -         2.218         -         3.518         3.318           Pot Cap-1 Maneuver         -         870         -         123         448           Stage 1         -         -         -         500         -           Stage 2         -         -         -         408         -           Mov Cap-1 Maneuver         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         117         -           Stage 1         -         -         -         500         -           Stage 2							
Stage 1       -       -       -       685       -         Stage 2       -       -       -       875       -         Critical Hdwy       -       -       4.12       -       6.42       6.22         Critical Hdwy Stg 1       -       -       -       5.42       -         Critical Hdwy Stg 2       -       -       -       5.42       -         Follow-up Hdwy       -       -       2.218       -       3.518       3.318         Pot Cap-1 Maneuver       -       870       -       123       448         Stage 1       -       -       -       500       -         Stage 2       -       -       -       -       408       -         Platoon blocked, %       -	Major/Minor M	/lajor1	- 1	Major2		Minor1	
Stage 2       -       -       -       875       -         Critical Hdwy       -       4.12       -       6.42       6.22         Critical Hdwy Stg 1       -       -       -       5.42       -         Critical Hdwy Stg 2       -       -       -       5.42       -         Follow-up Hdwy       -       -       2.218       -       3.518       3.318         Pot Cap-1 Maneuver       -       870       -       123       448         Stage 1       -       -       -       500       -         Stage 2       -       -       -       -       408       -         Platoon blocked, %       -	Conflicting Flow All	0	0	736	0	1560	685
Critical Hdwy         -         -         4.12         -         6.42         6.22           Critical Hdwy Stg 1         -         -         -         5.42         -           Critical Hdwy Stg 2         -         -         -         5.42         -           Follow-up Hdwy         -         -         2.218         -         3.518         3.318           Pot Cap-1 Maneuver         -         870         -         123         448           Stage 1         -         -         -         500         -           Stage 2         -         -         -         408         -           Platoon blocked, %         -         -         -         -         408         -           Platoon blocked, %         -         -         -         -         117         448           Mov Cap-1 Maneuver         -         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         117         -         -         500         -         -         -         390         -           Approach         EB         WB         WB         WB         WB	Stage 1	-	-	-	-	685	-
Critical Hdwy Stg 1       -       -       -       5.42       -         Critical Hdwy Stg 2       -       -       -       5.42       -         Follow-up Hdwy       -       -       2.218       -       3.518       3.318         Pot Cap-1 Maneuver       -       870       -       123       448         Stage 1       -       -       -       500       -         Stage 2       -       -       -       -       408       -         Platoon blocked, %       -       -       -       -       -       408       -         Mov Cap-1 Maneuver       -       -       870       -       117       448         Mov Cap-2 Maneuver       -       -       -       117       -       -       500       -         Stage 1       -       -       -       -       500       -       -       -       390       -         Approach       EB       WB       NB       NB       HCM LOS       E         Minor Lane/Major Mvmt       NBLn1 NBLn2       EBT       EBR       WBL         Capacity (veh/h)       117       448       - <td>Stage 2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>875</td> <td>-</td>	Stage 2	-	-	-	-	875	-
Critical Hdwy Stg 2         -         -         -         5.42         -           Follow-up Hdwy         -         -         2.218         -         3.518         3.318           Pot Cap-1 Maneuver         -         -         870         -         123         448           Stage 1         -         -         -         500         -           Stage 2         -         -         -         408         -           Platoon blocked, %         -         -         -         -           Mov Cap-1 Maneuver         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         117         -         -         500         -         -         390         -           Stage 1         -         -         -         -         390         -         -         -         390         -           Approach         EB         WB         NB         NB         HCM LOS         E         E           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL         WBL           Capacity (veh/h)         117         448         - <td>Critical Hdwy</td> <td>-</td> <td>-</td> <td>4.12</td> <td>-</td> <td>6.42</td> <td>6.22</td>	Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 2       -       -       -       5.42       -         Follow-up Hdwy       -       -       2.218       -       3.518       3.318         Pot Cap-1 Maneuver       -       -       870       -       123       448         Stage 1       -       -       -       500       -         Stage 2       -       -       -       -       -         Platoon blocked, %       -       -       -       -       -         Mov Cap-1 Maneuver       -       -       870       -       117       448         Mov Cap-2 Maneuver       -       -       -       117       -       -       -       117       -       -       -       -       500       -       -       -       -       390       -       -       -       -       390       -       -       -       -       -       390       -	Critical Hdwy Stg 1	-	-	-	-	5.42	-
Follow-up Hdwy - 2.218 - 3.518 3.318  Pot Cap-1 Maneuver - 870 - 123 448  Stage 1 500 -  Stage 2 408 -  Platoon blocked, %  Mov Cap-1 Maneuver - 870 - 117 448  Mov Cap-2 Maneuver - 870 - 117 - 448  Mov Cap-2 Maneuver 500 -  Stage 1 500 -  Stage 2 390 -  Approach EB WB NB  HCM Control Delay, s 0 0.4 43.7  HCM LOS E  Minor Lane/Major Mvmt NBLn1 NBLn2 EBT EBR WBL  Capacity (veh/h) 117 448 - 870  HCM Lane V/C Ratio 0.53 0.104 - 0.045  HCM Control Delay (s) 66.1 14 - 9.3  HCM Lane LOS F B A		_	-	_	_	5.42	-
Pot Cap-1 Maneuver         -         -         870         -         123         448           Stage 1         -         -         -         -         500         -           Stage 2         -         -         -         -         408         -           Platoon blocked, %         -         -         -         -         -         -           Mov Cap-1 Maneuver         -         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         -         117         -         -         500         -         -         -         500         -         -         -         500         -         -         -         390         -         -         -         -         390         -         -         -         -         390         -         -         -         -         -         -         390         -	, ,	_	-	2.218	_		3.318
Stage 1       -       -       -       500       -         Stage 2       -       -       -       408       -         Platoon blocked, %       -       -       -       -         Mov Cap-1 Maneuver       -       -       870       -       117       448         Mov Cap-2 Maneuver       -       -       -       117       -         Stage 1       -       -       -       500       -         Stage 2       -       -       -       390       -         Approach       EB       WB       NB         HCM Control Delay, s       0       0.4       43.7         HCM LOS       E             Minor Lane/Major Mvmt       NBLn1 NBLn2       EBT       EBR       WBL         Capacity (veh/h)       117       448       -       -       870         HCM Lane V/C Ratio       0.53       0.104       -       -       0.045         HCM Lane LOS       F       B       -       -       A		-	_				
Stage 2         -         -         -         408         -           Platoon blocked, %         -         -         -         -           Mov Cap-1 Maneuver         -         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         -         117         -         -         500         -         -         500         -         -         390         -         -         390         -         -         -         390         -         -         -         43.7         - <td>•</td> <td>-</td> <td>_</td> <td>_</td> <td>_</td> <td></td> <td></td>	•	-	_	_	_		
Platoon blocked, %		_	_	_	_		_
Mov Cap-1 Maneuver         -         -         870         -         117         448           Mov Cap-2 Maneuver         -         -         -         -         117         -           Stage 1         -         -         -         -         500         -           Stage 2         -         -         -         -         390         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.4         43.7           HCM LOS         E    Minor Lane/Major Mvmt  NBLn1 NBLn2  EBT  EBR  WBL  Capacity (veh/h)  117  448  870  HCM Lane V/C Ratio  0.53  0.104  - 0.045  HCM Control Delay (s)  66.1  14  - 9.3  HCM Lane LOS  F  B  - A	•	_	_			.00	
Mov Cap-2 Maneuver         -         -         -         117         -           Stage 1         -         -         -         500         -           Stage 2         -         -         -         390         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.4         43.7           HCM LOS         E           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL           Capacity (veh/h)         117         448         -         -         870           HCM Lane V/C Ratio         0.53         0.104         -         -         0.045           HCM Control Delay (s)         66.1         14         -         -         9.3           HCM Lane LOS         F         B         -         -         A			_	870		117	448
Stage 1         -         -         -         500         -           Stage 2         -         -         -         390         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.4         43.7           HCM LOS         E           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL           Capacity (veh/h)         117         448         -         -         870           HCM Lane V/C Ratio         0.53         0.104         -         -         0.045           HCM Control Delay (s)         66.1         14         -         -         9.3           HCM Lane LOS         F         B         -         -         A			_				
Stage 2         -         -         -         390         -           Approach         EB         WB         NB           HCM Control Delay, s         0         0.4         43.7           HCM LOS         E           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL           Capacity (veh/h)         117         448         -         -         870           HCM Lane V/C Ratio         0.53         0.104         -         -         0.045           HCM Control Delay (s)         66.1         14         -         -         9.3           HCM Lane LOS         F         B         -         -         A							
Approach         EB         WB         NB           HCM Control Delay, s         0         0.4         43.7           HCM LOS         E           Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL           Capacity (veh/h)         117         448         -         -         870           HCM Lane V/C Ratio         0.53         0.104         -         -         0.045           HCM Control Delay (s)         66.1         14         -         -         9.3           HCM Lane LOS         F         B         -         -         A							
HCM Control Delay, s	Slaye Z	-	-	-	-	290	-
HCM Control Delay, s   0   0.4   43.7							
Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL           Capacity (veh/h)         117         448         -         -         870           HCM Lane V/C Ratio         0.53         0.104         -         -         0.045           HCM Control Delay (s)         66.1         14         -         -         9.3           HCM Lane LOS         F         B         -         -         A	Approach	EB		WB		NB	
Minor Lane/Major Mvmt         NBLn1 NBLn2         EBT         EBR         WBL           Capacity (veh/h)         117         448         -         -         870           HCM Lane V/C Ratio         0.53         0.104         -         -         0.045           HCM Control Delay (s)         66.1         14         -         -         9.3           HCM Lane LOS         F         B         -         -         A	HCM Control Delay, s	0		0.4		43.7	
Capacity (veh/h)       117       448       -       -       870         HCM Lane V/C Ratio       0.53       0.104       -       -       0.045         HCM Control Delay (s)       66.1       14       -       -       9.3         HCM Lane LOS       F       B       -       -       A						Е	
Capacity (veh/h)       117       448       -       -       870         HCM Lane V/C Ratio       0.53       0.104       -       -       0.045         HCM Control Delay (s)       66.1       14       -       -       9.3         HCM Lane LOS       F       B       -       -       A							
Capacity (veh/h)       117       448       -       -       870         HCM Lane V/C Ratio       0.53       0.104       -       -       0.045         HCM Control Delay (s)       66.1       14       -       -       9.3         HCM Lane LOS       F       B       -       -       A	Minor Long/Maior Mares		UDL 4 P	VIDL O	EDT	EDD	WDI
HCM Lane V/C Ratio       0.53 0.104       -       - 0.045         HCM Control Delay (s)       66.1 14       -       - 9.3         HCM Lane LOS       F       B       -       -       A		. [					
HCM Control Delay (s) 66.1 14 - 9.3 HCM Lane LOS F B - A							
HCM Lane LOS F B A							
HCM 95th %tile Q(veh) 2.5 0.3 0.1	HCM 95th %tile Q(veh)		2.5	0.3	-	-	0.1

Intersection						
Int Delay, s/veh	3.7					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	74	45	<b>1</b>	0	20	4
Traffic Vol, veh/h	0	45	54	0	38	45
Future Vol, veh/h	0	45	54	0	38	45
Conflicting Peds, #/hr	0	0	0	_ 0	0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	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	49	59	0	41	49
Major/Minor I	Minor1	N	Major1	-	Major2	
Conflicting Flow All	190	59	0	0	59	0
	59					
Stage 1		-	-	-	-	-
Stage 2	131		-	-	4.40	-
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	-	-		-
Pot Cap-1 Maneuver	799	1007	-	-	1545	-
Stage 1	964	-	-	-	-	-
Stage 2	895	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	777	1007	-	-	1545	-
Mov Cap-2 Maneuver	777	-	-	-	-	-
Stage 1	964	-	-	-	-	-
Stage 2	871	-	-	-	-	-
Annroach	WB		ND		CD	
Approach			NB		SB	
HCM Control Delay, s	8.8		0		3.4	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-		1007	1545	-
		_		0.049		_
HCM Lane V/C Ratio					7.4	0
HCM Lane V/C Ratio HCM Control Delay (s)		-	-	0.0	7.4	U
HCM Control Delay (s)		-	-	8.8 A		
				0.0 A 0.2	7.4 A 0.1	A

Intersection						
Int Delay, s/veh	6.7					
		WED	NET	NDD	051	ODT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	N.		7			4
Traffic Vol, veh/h	0	45	9	0	38	7
Future Vol, veh/h	0	45	9	0	38	7
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	49	10	0	41	8
Major/Minor N	/linor1	N	//ajor1		Major2	
Conflicting Flow All	100	10	0	0	10	0
Stage 1	100	-	-	-	-	-
Stage 2	90	<u>-</u>	_	_	_	<u>-</u>
Critical Hdwy	6.42	6.22	_	_	4.12	_
Critical Hdwy Stg 1	5.42	- 0.22	_	_	7.12	_
Critical Hdwy Stg 2	5.42	_			_	_
		3.318	_	_	2.218	_
Pot Cap-1 Maneuver	899	1071	_	-		_
Stage 1	1013	-	_	_	1010	_
Stage 2	934	_	_		_	_
Platoon blocked, %	304	_		_	_	_
Mov Cap-1 Maneuver	876	1071	-	-	1610	_
	876	1071	-	-	1010	-
Mov Cap-2 Maneuver	1013			-		
Stage 1		-	-	-	-	-
Stage 2	910	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		6.2	
HCM LOS	Α					
Minardan I ana /Maian Mana	1	NDT	NDD	VDI 4	ODI	ODT
Minor Lane/Major Mvm	ι	NBT		VBLn1	SBL	SBT
Capacity (veh/h) HCM Lane V/C Ratio		-		1071	1610	-
H( IV/I I and V//( Patio		-		0.046		-
			_	X h	7.3	0
HCM Control Delay (s)		-				
		-	-	0.5 A 0.1	A 0.1	A -

	13.9 EBT							
ane Configurations	FRT							
Lane Configurations	LDI	EBR	WBL	WBT	NBL	NBR		
	<b>^</b>	7	*	<b>^</b>	*	7		
Traffic Vol, veh/h	554	114	92	625	119	99		
Future Vol., veh/h	554	114	92	625	119	99		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	_	None	-	None	_	None		
Storage Length	_	100	150	-	150	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	602	124	100	679	129	108		
IVIVIIIL FIOW	002	124	100	019	129	100		
	//ajor1		Major2		Minor1			
Conflicting Flow All	0	0	726	0	1481	602		
Stage 1	-	-	-	-	602	-		
Stage 2	-	-	-	-	879	-		
Critical Hdwy	-	-	4.12	-	6.42	6.22		
Critical Hdwy Stg 1	-	-	-	-	5.42	-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
Follow-up Hdwy	-	-	2.218	-	3.518	3.318		
Pot Cap-1 Maneuver	-	-	877	-	138	500		
Stage 1	-	-	-	-	547	-		
Stage 2	_	-	-	-	406	_		
Platoon blocked, %	_	_		_				
Mov Cap-1 Maneuver	_	_	877	_	~ 122	500		
Mov Cap-2 Maneuver	_	_	-		~ 122	-		
Stage 1	_	_	_	_	547	_		
Stage 2	_	_	_	_	360	_		
Olago Z					300			
Approach	EB		WB		NB			
HCM Control Delay, s	0		1.2		97.9			
HCM LOS					F			
Minor Lane/Major Mvmi	t I	NBLn11	NBLn2	EBT	EBR	WBL	WBT	
Capacity (veh/h)		122	500	-	-	877	-	
HCM Lane V/C Ratio			0.215	_	_	0.114	-	
HCM Control Delay (s)		167.5	14.2	-	_	9.6	-	
HCM Lane LOS		107.5	В	_	_	3.0 A	<u>-</u>	
		7.4	0.8		_	0.4	<u> </u>	
						J.7		
HCM 95th %tile Q(veh)		7.7	0.0					
HCM 95th %tile Q(veh)  Notes  ~: Volume exceeds cap			elay exc				outation Not Defined	*: All major volume in platoon

Intersection						
Int Delay, s/veh	4.2					
Movement	WBL	W/DD	NBT	NBR	SBL	SBT
		WBR		NBK	SBL	
Lane Configurations	A.	405	140	^	400	4
Traffic Vol, veh/h	0	105	113	0	102	104
Future Vol, veh/h	0	105	113	0	102	104
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	114	123	0	111	113
Major/Minor	Minor1		Major1		Major	
			Major1		Major2	
Conflicting Flow All	458	123	0	0	123	0
Stage 1	123	-	-	-	-	-
Stage 2	335	-	-	-	-	-
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		-	-	2.218	-
Pot Cap-1 Maneuver	561	928	-	-	1464	-
Stage 1	902	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	516	928	-	-	1464	-
Mov Cap-2 Maneuver	516	-	-	-	-	-
Stage 1	902	-	-	-	-	-
Stage 2	666	-	-	-	-	-
Annraach	WD		ND		CD	
Approach	WB		NB		SB	
HCM Control Delay, s	9.4		0		3.8	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	928	1464	-
HCM Lane V/C Ratio		_	_	0.123		_
HCM Control Delay (s)		_	-	9.4	7.7	0
HCM Lane LOS		_	_	A	A	A
HCM 95th %tile Q(veh)	)	_	_	0.4	0.2	-
TOWN COURT FORMIC SECTION				J.⊣r	J.2	

Intersection						
Int Delay, s/veh	7.8					
		14/55	Not	NEE	051	057
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	N.		7-			4
Traffic Vol, veh/h	0	106	7	0	102	2
Future Vol, veh/h	0	106	7	0	102	2
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	e, # 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	115	8	0	111	2
		_				
	Minor1		//ajor1		Major2	
Conflicting Flow All	232	8	0	0	8	0
Stage 1	8	-	-	-	-	-
Stage 2	224	-	-	-	-	-
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	756	1074	_	-	1612	-
Stage 1	1015	-	-	-	-	-
Stage 2	813	_	-	_	-	-
Platoon blocked, %			_	-		-
Mov Cap-1 Maneuver	704	1074	_	_	1612	_
Mov Cap-2 Maneuver	704	-	_	_	-	_
Stage 1	1015	_	_	_	_	_
Stage 2	757	_				
Glaye Z	131	<u>-</u>	_	_	-	_
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		7.3	
HCM LOS	Α					
Minar Lana/Maiar My	-4	NDT	MDDV	VDI 1	CDI	CDT
Minor Lane/Major Mvm	π	NBT	INBKV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	1074	1612	-
HCM Lane V/C Ratio		-	-	0.107		-
HCM Control Delay (s)		-	-	8.8	7.4	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh		-	-	0.4	0.2	-

Intersection						
Int Delay, s/veh	2.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u></u>	EDK.	VVDL	VV D 1	NDL	NDK
Traffic Vol, veh/h	844	48	37	518	47	33
Future Vol, veh/h	844	48	37	518	47	33
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	100	150	-	150	0
Veh in Median Storage,		-	-	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	917	52	40	563	51	36
Major/Minor N	/lajor1		Major2		Minor1	
Conflicting Flow All	0	0	969	0	1560	917
Stage 1	-	-	909	-	917	917
Stage 2	-	-	-	_	643	-
Critical Hdwy	_	_	4.12	_	6.42	6.22
Critical Hdwy Stg 1	_	_	4.12	_	5.42	0.22
Critical Hdwy Stg 2	_	_	_		5.42	
Follow-up Hdwy	_	_	2.218	_	3.518	
Pot Cap-1 Maneuver	<u>-</u>	_	711	_	123	330
Stage 1	_	_	- 111	_	390	-
Stage 2	_	_	_	_	523	_
Platoon blocked, %	_	_		<u>-</u>	020	
Mov Cap-1 Maneuver	_	_	711	_	116	330
Mov Cap-2 Maneuver	_	_		_	116	-
Stage 1	_	_	_	_	390	_
Stage 2	_	_	_	_	494	<u>-</u>
Olage 2					737	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.7		41.5	
HCM LOS					Е	
Minor Lane/Major Mvm	t 1	NBLn11	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		116	330	-	-	
HCM Lane V/C Ratio			0.109	-	-	0.057
HCM Control Delay (s)		58.5	17.2	-	-	
HCM Lane LOS		F	С	-	-	В
HCM 95th %tile Q(veh)		1.9	0.4	-	-	0.2

Intersection						
Int Delay, s/veh	3.5					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	***	20	10	0	40	4
Traffic Vol, veh/h	0	32	49	0	40	45
Future Vol, veh/h	0	32	49	0	40	45
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	35	53	0	43	49
Major/Minor	Minari	N	Major1		Major	
	Minor1		Major1		Major2	
Conflicting Flow All	188	53	0	0	53	0
Stage 1	53	-	-	-	-	-
Stage 2	135	-	-	-	-	-
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	801	1014	-	-	1553	-
Stage 1	970	-	-	-	-	-
Stage 2	891	-	_	_	-	-
Platoon blocked, %			_	_		_
Mov Cap-1 Maneuver	779	1014	_	_	1553	_
Mov Cap-2 Maneuver	779	-	_	_	-	_
Stage 1	970	_			_	
•	866		-	-		-
Stage 2	000	-	_	-	-	-
Approach	WB		NB		SB	
			0		3.5	
	8.7				0.0	
HCM Control Delay, s	8.7 A		U			
	8.7 A		U			
HCM Control Delay, s HCM LOS	A					
HCM Control Delay, s HCM LOS Minor Lane/Major Mvm	A	NBT	NBRV	VBLn1	SBL	SBT
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvm Capacity (veh/h)	A	NBT -	NBRW -	1014	1553	SBT -
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	A nt		NBRW -	1014 0.034	1553 0.028	-
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvm Capacity (veh/h)	A nt	-	NBRW -	1014	1553	-
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	A nt	-	NBRV - -	1014 0.034	1553 0.028	-
HCM Control Delay, s HCM LOS  Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	A nt	- - -	NBRV - - -	1014 0.034 8.7	1553 0.028 7.4	- - 0

Intersection						
Int Delay, s/veh	6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
		אטא		INDIX	ODL	
Lane Configurations	**	32	17	٥	40	4
Traffic Vol, veh/h	0	32		0		5
Future Vol, veh/h	0		17	0	40	5
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	35	18	0	43	5
Major/Minor I	Minor1	N	Major1		Major2	
Conflicting Flow All	109	18	0	0	18	0
Stage 1	18	-	-	-	-	-
Stage 2	91	-	-		- 4.40	-
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		-	-	2.218	-
Pot Cap-1 Maneuver	888	1061	-	-	1599	-
Stage 1	1005	-	-	-	-	-
Stage 2	933	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	864	1061	-	-	1599	-
Mov Cap-2 Maneuver	864	-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	908	-	_	_	-	-
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	WD		ND		0.0	
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		6.5	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NBRV	WBLn1	SBL	SBT
Capacity (veh/h)		-		1061	1599	-
HCM Lane V/C Ratio		_	_	0.033		-
HCM Control Delay (s)		_	_	8.5	7.3	0
HCM Lane LOS			<u> </u>	0.5 A	7.3 A	A
		-	-	Α.	Α.	^
HCM 95th %tile Q(veh)			_	0.1	0.1	_