# TIMING & PHASING TRAFFIC ANALYSIS FOR DOLLAR GENERAL SR 39 /JERRY ROAD SITE REZONING PASCO COUNTY, FLORIDA

PREPARED FOR: TERAMORE DEVELOPMENT, LLC

PREPARED BY: GULF COAST CONSULTING, INC. REVISED MARCH 2023 PROJECT # 22-085

Robert Pergolizzi, AICP/PTP AICP #9023/PTP #133

Sean P. Cashen, P.E.

#### I. INTRODUCTION

The applicant is rezoning a 2.11-acre site to C-2 with plans to develop a Dollar General Store on a site located on the northeast corner of the SR 39 / Jerry Road intersection in the Crystal Springs area of Pasco County. (See Figure 1) The subject parcel is proposed to contain a 10,640 SF Dollar General store.

The proposed development has a current zoning of AC & AR and C-2 and rezoning the site to C-2 requires a "Timing & Phasing Analysis" to evaluate impacts and anticipated operations on off-site roadways and intersections. In addition, a site access analysis was conducted to evaluate the conditions at the project driveway to Jerry Road. This analysis accompanies a rezoning application, and this analysis was conducted in accordance with the projects approved methodology as contained in Appendix A. Pursuant to the approved project methodology, the site was analyzed as a 10,640 SF Dollar general store. The expected build-out date is early 2025.

#### II. EXISTING CONDITIONS

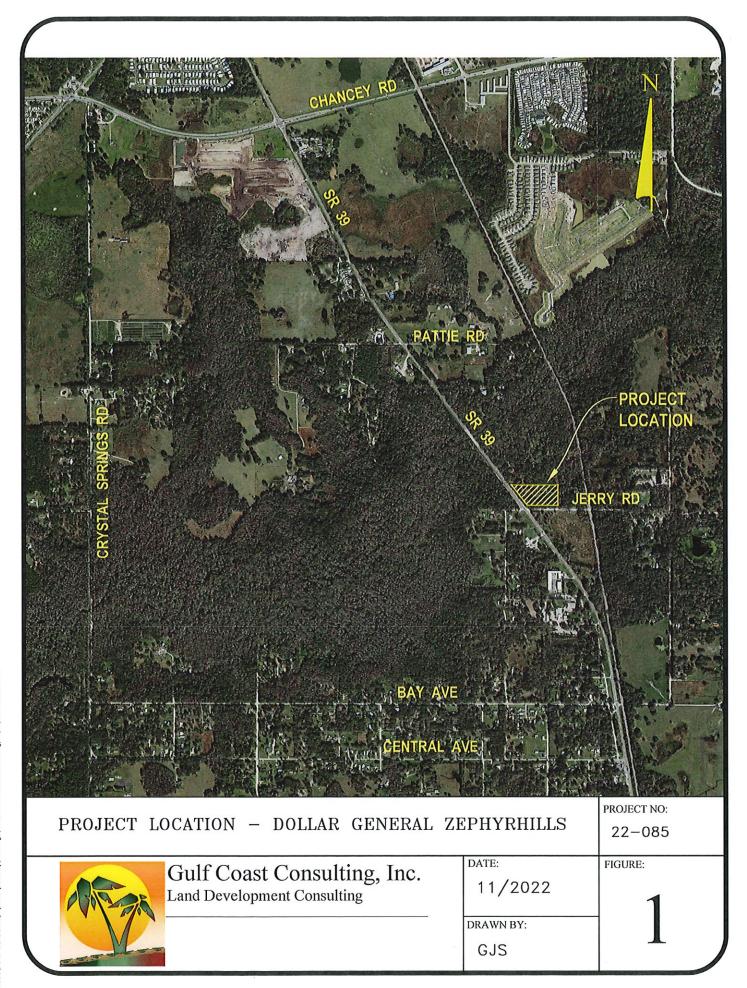
The project is expected to have direct access to Jerry Road approximately 175 feet east of the intersection with SR 39 (Paul Buchman Highway). Direct access to SR 39 is not proposed. Existing conditions were established by conducting AM peak period (7-9 AM) and PM peak period (4-6 PM) intersection turning movement counts at the following locations in April 2021.

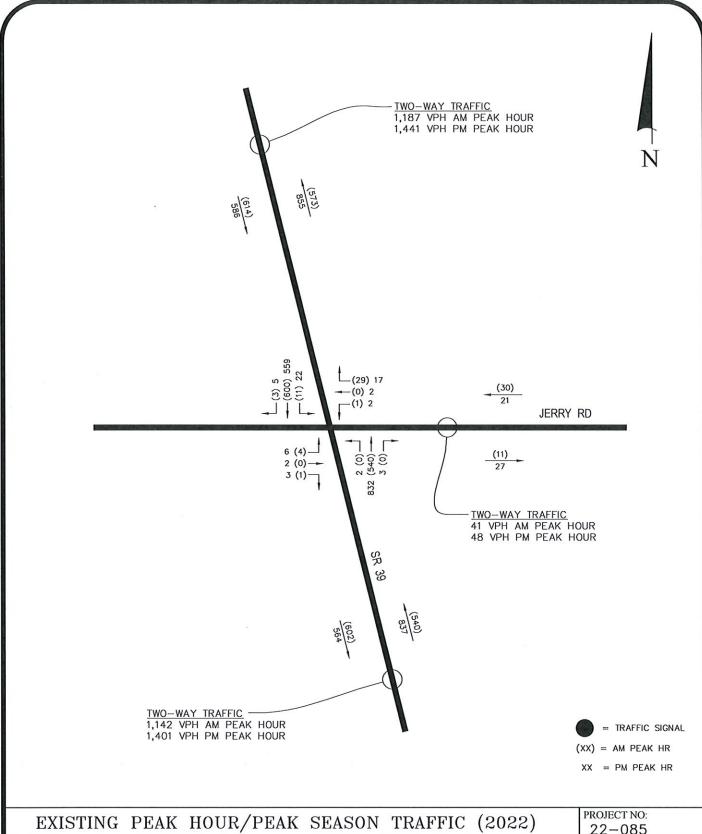
US 301/ Jerry Road

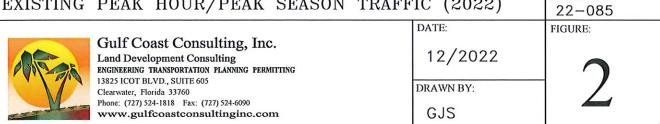
These counts were seasonally adjusted to peak season equivalents using FDOT seasonal adjustment factors. Intersection geometrics were obtained in the field and the intersection was analyzed using HCS22 software. Existing peak hour/peak season traffic volumes are shown in Figure 2 and the HCS printout is included in Appendix A.

During the AM peak hour southbound left turns operate at LOS A with 9.1 seconds average delay and the westbound approach (Jerry Rd) operates at LOS B with 13.0 seconds of average delay. During the PM peak hour, the southbound left turns operate at LOS B with 10.2 seconds average delay and the westbound approach operates at LOS C with 22.7 seconds of average delay.

SR 39 is a two-lane undivided arterial roadway with exclusive right turn lanes and a posted speed of 60 MPH in front of the project site. According to FDOT counts near the site, this segment carries 14,900 vehicles per day AADT. SR 39 has infrequent traffic signal interruptions since the nearest signal to the north is 1.3 miles north at Chancey Road, and the nearest signal to the south is 7.8 miles south at Knights-Griffin Road in Hillsborough County. Per FDOT QLOS Manual procedures, this segment was analyzed as a two-lane uninterrupted roadway with a LOS D capacity of 2,170 vehicles per hour. Currently SR 39 south of Jerry Road operates at LOS C carrying 1,142 vph during the







AM peak hour and 1,401 vehicles during the PM peak hour. SR 39 north of Jerry Road operates at LOS C during the AM peak hour carrying 1,187 vehicles and at LOS C during the PM peak hour carrying 1,441 vehicles.

Jerry Road is a two-lane undivided roadway and carries 41 vehicles during the AM peak hour and 48 vehicles during the PM peak hour. This represents LOS C conditions.

#### III. FUTURE CONDITIONS

#### **Background Traffic**

The expected build-out date is assumed to be 2025. The existing peak hour/peak season traffic volumes were adjusted to 2025 using a 3.28% annual growth rate based on the approved methodology. Background traffic is shown in Figure 3 and the HCS22 printouts are included in Appendix B.

During the AM peak hour southbound left turns would operate at LOS A with 9.3 seconds average delay and the westbound approach (Jerry Rd) would operate at LOS B with 13.8 seconds average delay. During the PM peak hour, the southbound left turns would operate at LOS B with 10.6 seconds average delay and the westbound approach would operate at LOS D with 26.2 seconds average delay.

SR 39 would continue to operate at LOS C during the AM peak hour carrying 1,256 vehicles, and at LOS D carrying 1,540 vehicles during the PM peak hour south of Jerry Road. SR 39 north of Jerry Road would continue to operate at LOS C in the AM peak hour carrying 1,305 vehicles and at LOS D during the PM peak hour carrying 1,585 vehicles.

Jerry Road would continue to operate at LOS C with a volume of 45 vehicles during the AM peak hour and 52 vehicles during the PM peak hour.

#### Project Traffic Impacts

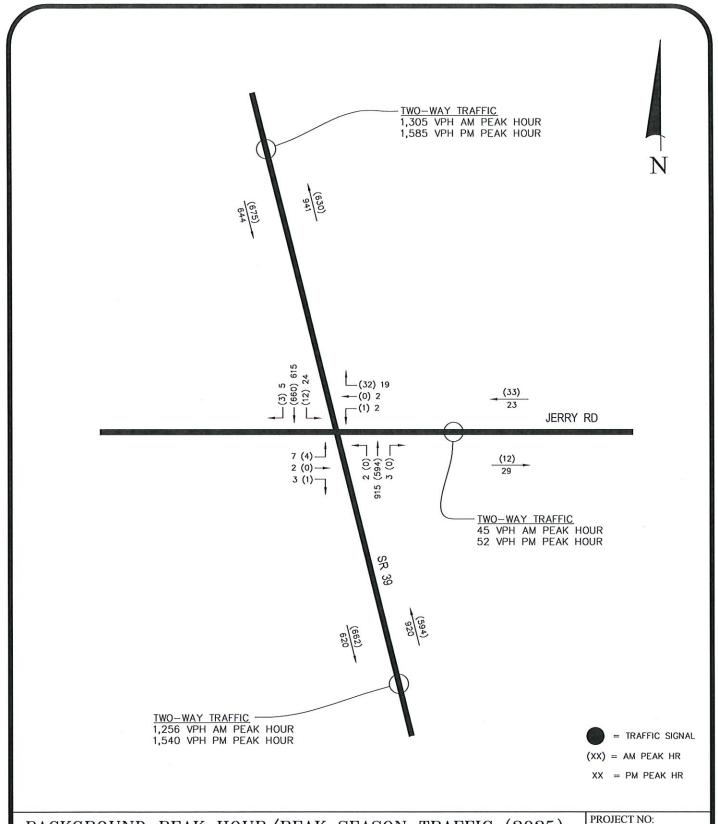
#### Trip Generation/Trip Distribution

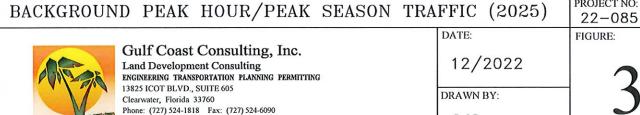
Trip generation was estimated using ITE <u>Trip Generation</u>, 11<sup>th</sup> <u>Edition</u> average rates and is estimated below:

		ITE		AM Trips	PM Trips
Land Use	Size	LUC	Daily Trips	enter/exit	(enter/exit)
Variety Store	10,640 SF	814	677	32 (18/14)	71 (36/35)

Project traffic was distributed by the following percentages based on the approved methodology as shown in Figure 4:

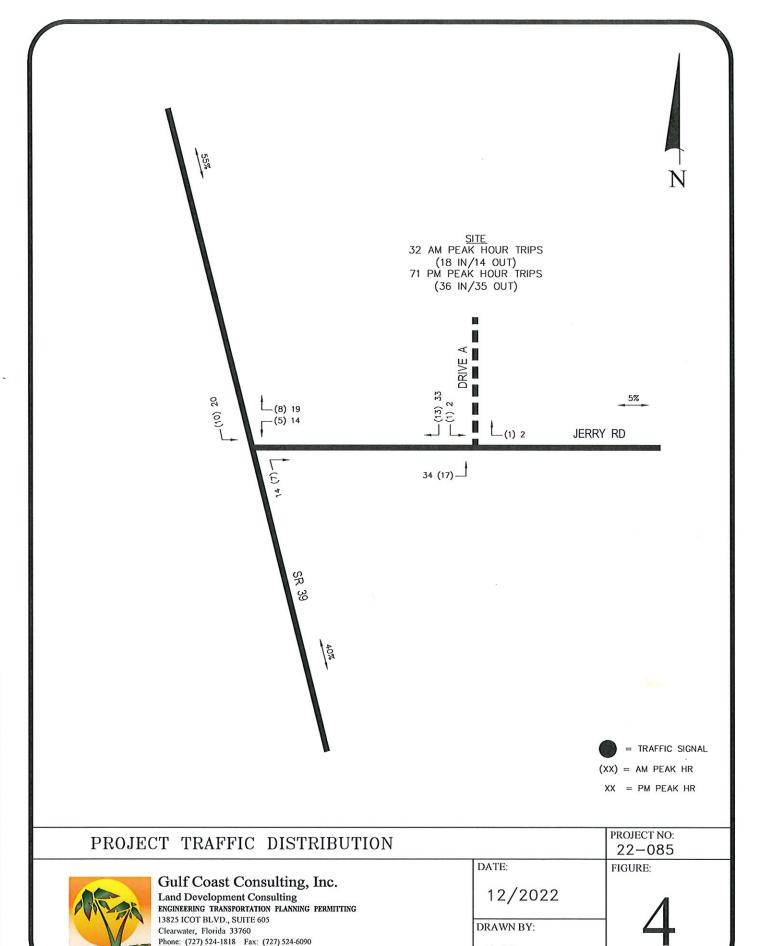
55% north on SR 39 (18 AM peak hour trips, 39 PM peak hour trips) 40% south on SR 39 (12 AM peak hour trips, 28 PM peak hour trips) 5% east on Jerry Rd. (2 AM peak hour trips, 4 PM peak hour trips)





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The PM peak hour impact of the project traffic to the surrounding roadways is shown below:

Roadway Segment	Project Traffic	LOS D Capacity	Project %
SR 39 (North of Jerry Rd)	39	2,170	1.80%
SR 39 (South of Jerry Rd)	28	2,170	1.29%
Jerry Rd (East of Site)	4	1,200	0.03%

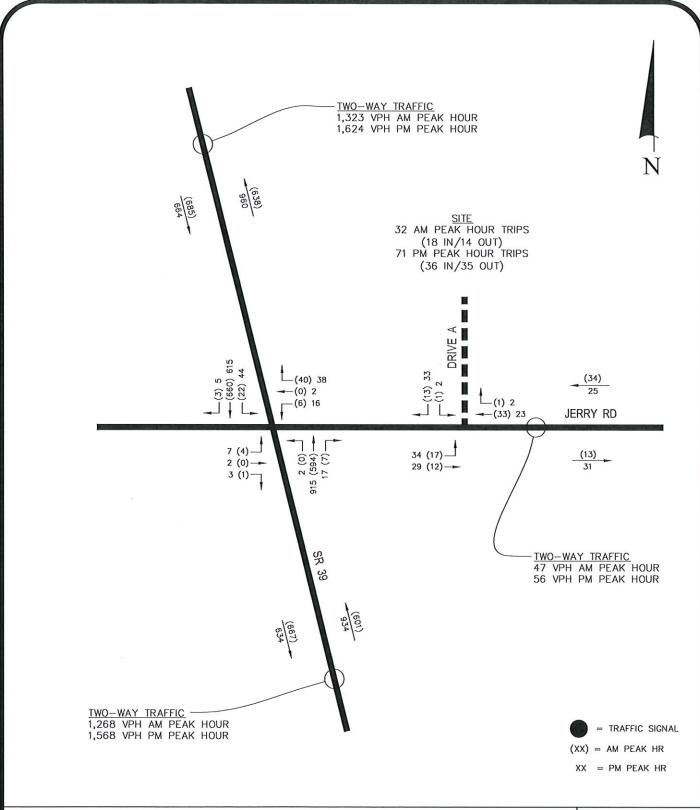
Project generated traffic was added to background traffic and the intersection and project driveway were reanalyzed using HCS. The applicant will be modifying the westbound approach on Jerry Road at the SR 39 intersection to add pavement and restripe for an exclusive right turn lane, and a shared WB left turn/through lane. A southbound left turn lane on SR 39 will also be added and per discussions with FDOT the SB approach will be modified to contain a shared through/right turn lane. These improvements are included in the future conditions analysis. The HCS22 printouts are included in Appendix C and peak hour / peak season volumes are shown in Figure 5.

During the AM peak hour southbound left turns would operate at LOS A with 9.4 seconds average delay and the westbound approach (Jerry Rd) would operate at LOS C with 16.4 seconds average delay. During the PM peak hour, the southbound left turns would operate at LOS B with 10.9 seconds average delay and the westbound approach would operate at LOS E with 42.3 seconds average delay. The WB approach shared left should be able to store 2 vehicles based on expected queues from HCS22.

At the project driveway to Jerry Road (Drive A), eastbound left turns entering the site would operate at LOS A with 7.3 seconds delay, and the southbound approach exiting the site would operate at LOS A with 8.5 seconds average delay during the AM peak hour. During the PM peak hour, eastbound left turns would operate at LOS A, with 7.3 seconds delay and the southbound approach exiting the site would operate at LOS A with 8.6 seconds delay.

According to the graphs from Pasco County Access Management guidelines a westbound right turn lane is not warranted along Jerry Road at the proposed driveway. An eastbound left turn lane is not warranted on Jerry Road at the project driveway. The graphs are included in Appendix C

SR 39 would continue to operate at LOS C during the AM peak hour carrying 1,268 vehicles and at LOS D carrying 1,568 vehicles during the PM peak hour south of Jerry Road. SR 39 north of Jerry Road would continue to operate at LOS C in the AM peak hour carrying 1,323 vehicles and at LOS D carrying 1,624 vehicles during the PM peak hour.





Jerry Road would continue to operate at LOS C with a volume of 47 vehicles during the AM peak hour and 56 vehicles during the PM peak hour east of the site driveway.

#### IV. CONCLUSIONS AND RECOMMENDATIONS

The proposed C-2 rezoning, if developed with a 10,640 SF variety store, would generate 677 daily trips of which 32 would occur in the AM peak hour and 71 would occur during the PM peak hour. The project would have minor impacts to the nearest segments of SR 39 and these segments would operate at LOS C during the AM peak hour and LOS D during the PM peak hour with significant excess capacity. At the intersection of SR 39 / Jerry Road all approaches would operate at LOS C or better during the AM peak hour, and during the PM peak hour side street delays on Jerry Road would exceed 42 seconds (LOS E) with the proposed improvements. At the project driveway delays would be minimal and all movements would operate at LOS A.

The applicant has proposed intersection improvements at SR 39/Jerry Road which include constructing a SB left turn lane and modifying the SB approach for a shared through/right turn lane as discussed with FDOT, and widening and restriping Jerry Road for an exclusive WB right turn lane, and a shared left/through lane which will mitigate the project impacts and improve future operations.

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·	APPENDIXA		

#### Robert Pergolizzi From: Robert Pergolizzi Sent: Monday, December 05, 2022 3:48 PM To: Bennett Elbo; Amir Jamali Cc: Scott Lincoln; Barbara Wilhite Subject: RE: Dollar General SR 39/Jerry Road - METHODOLOGY I acknowledged the below statements, Bennet. Pass-by will be per ITE Trip Generation, and will not exceed 10% of

adjacent street traffic on SR 39. The TNA will be done separately from the T&P Analysis, the T&P Analysis will be signed/sealed by a PE.

Thanks for the methodology approval.

Robert Pergolizzi, AICP PTP Gulf Coast Consulting, Inc. 13825 ICOT Boulevard, Suite 605

Clearwater, FL 33760 Phone: 727-524-1818 Fax: 727-524-6090 Cell: 727-644-2695

Email: pergo@gulfcoastconsultinginc.com

From: Bennett Elbo <belbo@pascocountyfl.net> Sent: Monday, December 05, 2022 12:51 PM

To: Robert Pergolizzi <pergo@gulfcoastconsultinginc.com>; Amir Jamali <ajamali@pascocountyfl.net>

Cc: Scott Lincoln <slincoln@lacivil.com>; Barbara Wilhite <barbara@wilhitelaw.net>

Subject: RE: Dollar General SR 39/Jerry Road - METHODOLOGY

Hi Robert – please proceed with acquiring the traffic counts per methodology. Also please address the following –

Please ensure the following: Passerby capture will not exceed 20 percent of site generated traffic, unless data supporting higher rates are included in the current version of the ITE Manual reference, latest mobility fee study, or are otherwise approved by the County. In no event shall the total passerby trips entering and exiting a site exceed <u>ten percent of the total background</u> (existing plus future) traffic on the adjacent roadway.
Please provide a Transportation Needs Assessment.
All Analysis shall be signed and sealed by a Licensed Engineer (PE).
Thanks, -Ben



Bennett Elbo,

Transporation Planner II Planning and Development Department **Current Planning Division** Pasco County

P: 727-847-8142 Ext. 7227

#### Robert Pergolizzi

From: Sent:	Amir Jamali <ajamali@pascocountyfl.net> Friday, December 02, 2022 11:30 AM</ajamali@pascocountyfl.net>
то:	Robert Pergolizzi; Bennett Elbo
Cc:	Scott Lincoln; Barbara Wilhite
Subject:	Re: Dollar General SR 39/Jerry Road - METHODOLOGY
Robert,	
I'm fine overall with the me	thodology for TNA section. But you need to use Cost Affordable Plan volumes.
Thanks,	
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[cid:54c5d78c-7e81-4b60-b	of09-deede0e2bbe9]
Amir Jamali, Ph.D., P.E.	
Senior Transportation Planı	ner
Planning and Development	Department
Pasco County	
P 727-847-2411 Ext. 8647	
8731 Citizens Drive, Suite 3 New Port Richey, FL 34654	60
New Fore Meney, 125-105-1	
	ilto:ajamali@mypasco.net> <u>tp://www.pascocountyfl.net/</u> >
"Serving our community to	create a better future."
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Pasco County Social Media:	:
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	ww.youtube.com/channel/UCvlOC1VxmqM8

#### [social media icons] < http://fl-pascocounty.civicplus.com/index.aspx?NID=2174>

From: Robert Pergolizzi <pergo@gulfcoastconsultinginc.com>

Sent: Monday, November 28, 2022 3:12 PM

Subject: Dollar General SR 39/Jerry Road - METHODOLOGY

Amir – We just finished a pre-application meeting that Bennet Elbo attended. He requested I send you the methodology that was uploaded this morning. (T&P-2022-00121) to Acela.

Please review the methodology and let me know of any changes you want.

For the Transportation Needs Assessment, in the past we had used the 2045 LRTP NEEDS PLAN volumes/capacities, but if you want us to use the 2045 COST AFFORDABLE Plan volumes/capacities we can do that.

I am looking to do both the Transportation Needs Assessment and the T&P Analysis in December. So I need the methodology approval to do so.

Robert Pergolizzi, AICP PTP

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### TRANSPORTATION NEEDS ASSESSMENT METHODOLOGY TIMING AND PHASING METHODOLOGY

Meeting Date: None Requested
Draft Submitted: 11/23/2022
Final Approved: 12/5/2022

**Project Name:** Dollar General Zephyrhills- SR 39/Jerry Rd, Pasco County, FL Comp Plan/Zoning Action: Comp Plan Amendment RES-1 to COM;

Rezone from AR & AC to C-2

#### <u>Transportation Needs Assessment</u>

Exemption Status:
 The FLU Designation is RES-1, the applicant seeks to amend the Comprehensive Plan to COM

- 2) Site Parameters: (See Figure 1)
  The site is 2.11 acres and is located on the NE corner of SR 39 (Paul Buchman Highway)/Jerry Road in the Crystal Springs area of unincorporated Pasco County. The applicant intends to build a 10,640 SF Dollar General (Variety Store)
- 3) Study Area: The study area is the segment of SR 39 (Central Avenue Chancey Road). SR 39 is a 2-lane arterial roadway and is shown as a 4LD arterial roadway on the 2045 LRTP Needs Plan and as 2-lanes on the 2045 Cost Affordable Plan.
- 4) 2045 Volumes: The 2045 Volumes shown in the Pasco County 2045 LRTP **Cost Affordable** Plan LOS Report will be used.
- 5) Development Traffic: The trips generation for the proposed Variety Store will be estimated using ITE <u>Trip Generation</u>, 11<sup>th</sup> <u>Edition</u> rates The increased traffic associated with the development will be calculated.
- 6) Distribution: 95% of the project traffic will be assigned to SR 39 and 5% will be assigned to Jerry Road east of the SR 39 intersection.
- 7) Analysis: PM Peak hour generalized roadway segment analysis will be conducted for SR 39 using the 2045 LRTP volumes and capacity and will also include project generated traffic. LOS and v/c will be reported in the Transportation Needs Assessment.

Note: To maintain the review schedule, the applicant will be required to respond to the draft methodology statement within four (4) business days. The applicant may request additional time for review, which will trigger an automatic extension of the review schedule.

#### Timing and Phasing Analysis

- 1) Exemption status:
  - a. The property is currently zoned AR and AC and is 2.11 acres.

The site is proposed to be rezoned to C-2. The parcel #25-26-21-0010-04600-0000 comprises 2.11 acres and would have access to Jerry Road which is a 2-lane local road. The Jerry Road intersection at SR 39 is an unsignalized intersection. SR 39 is a 2-lane undivided arterial roadway with infrequent traffic signals. The Timing and phasing analysis is triggered based on the C-2 rezoning request and the traffic analysis will be submitted with the rezoning package.

b. The applicant has elected to complete this analysis and is proposing this methodology.

#### 2) Site Parameters:

a. Description of land uses -

Exempt Uses	Existing
Vacant site	Vacant site
Non-exempt Uses	Proposed
Mon-exempt 0363	
C-2	10,640 SF Variety Store

- b. Site Location Project is located at the Northeastern corner of the SR 39/Jerry Road intersection in the Crystal Springs area of Pasco County. Full access to Jerry Road is proposed, no direct access to SR 39 is proposed.
- Buildout schedule and Phasing The buildout year for the project is 2025. The analysis will do a future year analysis of 2025 conditions.
- d. Interim uses generating traffic None

#### 3) Study Area:

a. The study area will include segment of SR 39 between Central Avenue and Chancey Road. Analysis will include the intersection of SR 39/Jerry Road.

#### 4) Traffic Counts

a. Traffic counts include AM & PM peak period intersection counts at the following intersection:

SR 39/Jerry Road

Counts will be adjusted to peak season equivalents. This will provide AM peak hour/peak season and PM peak hour/peak season volumes for all adjacent segments of SR 39 and Jerry Road.

5) Trip Generation:

Note: To maintain the review schedule, the applicant will be required to respond to the draft methodology statement within four (4) business days. The applicant may request additional time for review, which will trigger an automatic extension of the review schedule.

a. For purposes of analysis the trip generation will be based on the Institute of Transportation Engineers (ITE) <u>Trip Generation</u>, 11<sup>th</sup> <u>Edition</u>. We will evaluate the project as a 10,640 SF variety store. The project will generate only 677 daily trips of which 32 would occur during the AM peak hour and 71 would occur during the PM peak hour.

#### 6) Internal Capture/Pass-by:

- a. Internal Capture No internal capture for the proposed use.
- b. Pass-by Pass-by capture will be 34% per ITE Trip Generation Handbook.

#### 7) Background Growth Procedure:

a. A growth rate of 3.28% per year for all studied roadways will be used to estimate background traffic in 2025. This is based on nearby FDOT count station historical counts.

#### 8) Distribution and Assignment:

a. Project traffic distribution will be 55% to/from the north on SR 39, 40% to/from south on SR 39, and 5% east on Jerry Road to adjacent neighborhoods.

#### 9) Analysis:

- a. The analysis will be done for the AM & PM peak hours. Intersections will be analyzed using SYNCHRO and HCS software.
- b. FDOT 2012 Generalized tables will be used to complete the Timing & Phasing portion of the analysis.
- c. Existing G/C ratios will be based on the Pasco County data and field measurements. (if applicable)

#### Access Management Analysis:

An Access Management Analysis will be conducted for the project driveway intersection with Jerry Road. This will evaluate if turn lanes are required with the traffic associated with the addition of the project. The intersection analysis shall be based on HCS software and Pasco County Access Management graphs. All other parameters outlined above shall be utilized in the analysis.

The current version of Transportation Analysis Guidelines will be used for parameters not specifically mentioned here.

Note: To maintain the review schedule, the applicant will be required to respond to the draft methodology statement within four (4) business days. The applicant may request additional time for review, which will trigger an automatic extension of the review schedule.

2021 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 1400 PASCO COUNTYWIDE

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10 11 *12 *13 *14	02/28/2021 - 03/06/2021 03/07/2021 - 03/13/2021 03/14/2021 - 03/20/2021 03/21/2021 - 03/27/2021 03/28/2021 - 04/03/2021	1.01 0.99 0.96 0.96 0.96	1.04 1.02 0.99 0.99
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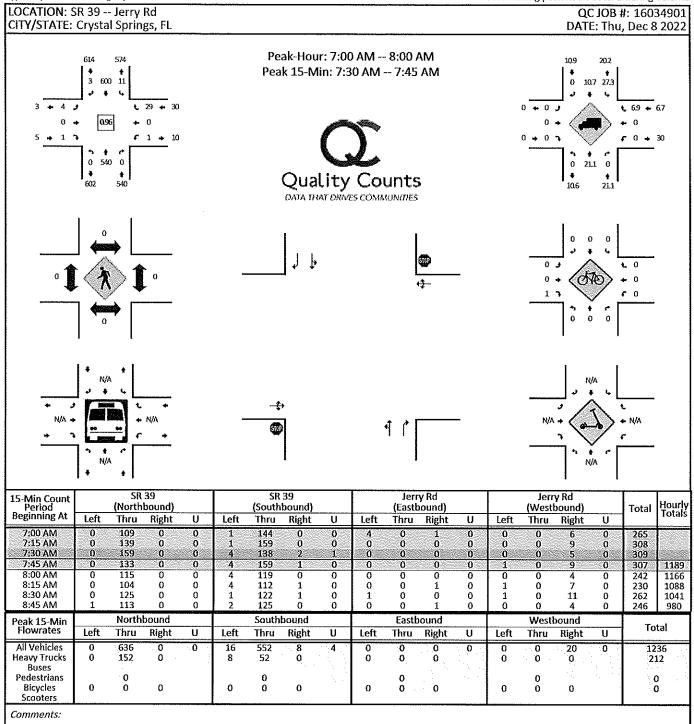
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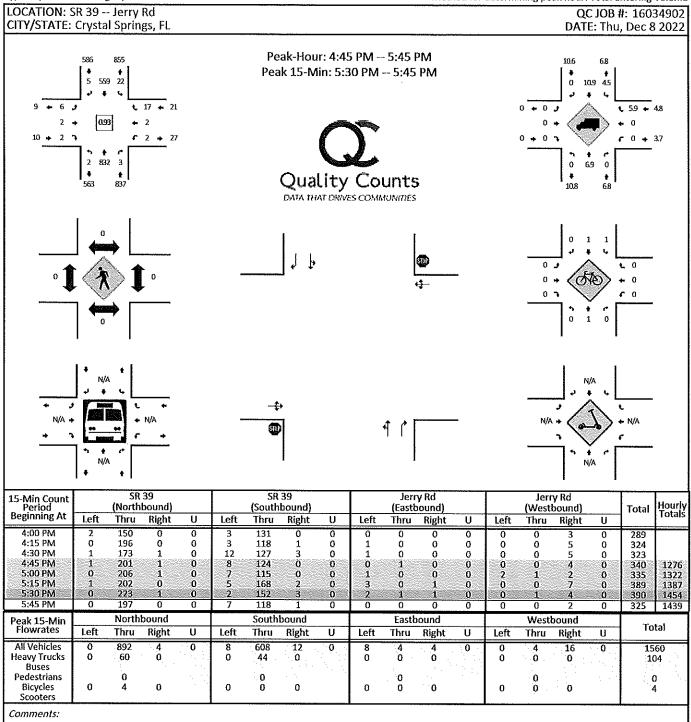
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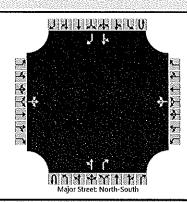


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PSCF = 1.0 NO ADJUST MENT

HCS Two-Way Stop-Control Report								
General Information		Site Information						
Analyst	RP	Intersection	SR 39 / JERRY RD					
Agency/Co.	GCC	Jurisdiction	FDOT/PASCO					
Date Performed	12/12/2022	East/West Street	JERRY RD					
Analysis Year	2022	North/South Street	SR 39 (PAUL BUCHMAN HWY)					
Time Analyzed	AM PEAK HOUR	Peak Hour Factor	0.96					
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25					
Project Description	EXISTING CONDITIONS 2022							

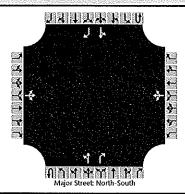


Approach	Eastbound Westbound				North	hound		Southbound								
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Critical and Follow-up He	adway	ys														
Base Critical Headway (sec)		7.1	6,5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)	1411111	7.10	6.50	6.20	MANA.	7.17	6.57	6.27	ining.	4.10	White		MARKE	4.37		VEH
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3,30	WHAN	3.56	4.06	3.36	ABAR	2.20		dge.		2.44		NAME OF STREET
Delay, Queue Length, and	Level	of Se	ervice													
Flow Rate, v (veh/h)			5				31			0				11		
Capacity, c (veh/h)	MAR.		173		W. S.	18.63	479	Will	400A.B	964	V. S.		N. S.	896		11.55
v/c Ratio			0.03				0.07			0.00				0.01		
95% Queue Length, Q <sub>95</sub> (veh)	MARK	Mate	0.1	141413	Neise.	NAM	0.2		MAN	0.0	35.55	energi.	Maria	0,0		13.A
Control Delay (s/veh)			26.5				13.0		<u> </u>	8.7	0.0			9.1	0.1	
Level of Service (LOS)			D		Mile	MARI	В	14.00	Markh.	Α	Α		(	Α	A	11.11
Approach Delay (s/veh)	****	26	5.5			13	,0			0.	.0				.3	
Approach LOS	53, 57	CA SEA	<b>)</b> 11.1111			$\langle \cdot \rangle$	<del>}-</del>		1:57:17:17	+10000 A10	V MARKE	. 1 1 1 1 1 1 1 1 1	/		4	

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HCSTM TWSC Version 2022 SR39JERRYXAM.xtw Generated: 12/12/2022 8:33:32 AM

HCS Two-Way Stop-Control Report								
General Information		Site Information						
Analyst	RP	Intersection	SR 39 / JERRY RD					
Agency/Co.	GCC	Jurisdiction	FDOT/PASCO					
Date Performed	12/12/2022	East/West Street	JERRY RD					
Analysis Year	2022	North/South Street	SR 39 (PAUL BUCHMAN HWY)					
Time Analyzed	PM PEAK HOUR	Peak Hour Factor	0.93					
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25					
Project Description	EXISTING CONDITIONS 2022	<u> </u>						



Approach	`	Eastb	ound			Westl	oound			North	bound		, ,	South	bound	
Movement	υ	EL C	ET S	R	U i		Тт	R	U	L	ST.	R	\iu \	ii.	Т	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	1	0		0	11.0	0	0	0	1	3 <b>1</b> .3	0	0	\1	1111
Configuration			LTR				LTR		,	LT		R		LT		R
Volume (veh/h)		6	2	3	ASSE	2	2	17		2	832	3	ALE:	22	559	5
Percent Heavy Vehicles (%)		0	0	0		5	5	5		7				11		
Proportion Time Blocked		NAME:	SM:	BAR.		US BE	A. A	death	SSE	ALERO,				SNS	SEE	MANG.
Percent Grade (%)		(	)			(	)									
Right Turn Channelized	BRAN	Maria (		Willia.	usii			HAMH		N	o		Village	N	lo	
Median Type   Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6,2		4.1				4.1		
Critical Headway (sec)	Militar	7.10	6.50	6.20	SAME	7.15	6.55	6.25	MERS	4.17		UNIVE	Matth	4.21	Neekil	Vacility
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2,2				2.2		
Follow-Up Headway (sec)		3.50	4.00	3.30	N. S.	3.55	4.05	3.35		2.26		8888	888	2.30		
						5 S S	1000 (1000 H)									
Delay, Queue Length, and	Leve	1 OT 56	FIVICE												20000000000000000000000000000000000000	ocony romary made
Delay, Queue Length, and Flow Rate, v (veh/h)	Leve	1 OT 56	12				23			2				24		
	Leve	1 OT 56	BEER 1992   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990		Ni K		23 226			2 948				24 720	ļā ķi	
Flow Rate, v (veh/h)	Leve	OT Se	12										2 A W () - ( ) - ( ) - ( )			lită
Flow Rate, v (veh/h) Capacity, c (veh/h)	Leve	l or se	12 114				226			948				720		
Flow Rate, v (veh/h)  Capacity, c (veh/h)  v/c Ratio	Leve		12 114 0.10				226 0.10			948 0.00	0.0			720 0.03	0.4	
Flow Rate, v (veh/h)  Capacity, c (veh/h)  v/c Ratio  95% Queue Length, Q <sub>95</sub> (veh)	Leve		12 114 0.10 0.3				226 0.10 0.3		A	948 0.00 0.0	0.0 A			720 0.03 0.1	0.4 7 A	

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HCSTW TWSC Version 2022 SR39JERRYXPM.xtw

WB JEERY RO

12/18/12

INTERRUPTED FLOW FACILITIES	UNINTERRUPTED FLOW FACILITIES
STATE SIGNALIZED ARTERIALS	FREEWAYS
Class I (40 mph or higher posted speed limit)  Lanes Median B C D B  2 Undivided * 1,510 1,600 **  4 Divided * 3,420 3,580 **  6 Divided * 5,250 5,390 **  8 Divided * 7,090 7,210 **	Lanes     B     C     D     B       4     4,120     5,540     6,700     7,190       6     6,130     8,370     10,060     11,100       8     8,230     11,100     13,390     15,010       10     10,330     14,040     16,840     18,930       12     14,450     18,880     22,030     22,860
Class II (35 mph or slower posted speed limit)  Lanes Median B C D B  2 Undivided * , 660 1,330 1,410  4 Divided * 1,310 2,920 3,040  6 Divided * 2,090 4,500 4,590  8 Divided * 2,880 6,060 6,130  7 Jama (2 2 2 96% 600 1200)  Non-State Signalized Roadway Adjustments	Freeway Adjustments  Auxiliary Lanes Ramp Present in Both Directions Metering +1,800 +5%  SR 39 (Hills Co - Chemen)
(Alter conesponding state volumes by the indicated percent.) Non-State Signalized Roadways - 10%	
Median & Turn Lane Adjustments  Rxclusive Exclusive Adjustment Lanes Median Left Lanes Right Lanes Factors  2 Divided Yes No +5%  2 Undivided No No -20%  Multi Undivided Yes No -5%  Multi Undivided No No -25%  Yes +5%  One-Way Facility Adjustment	UNINTERRUPTED FLOW HIGHWAYS  Lanes Median B C D E  2 Undivided 770 1,530 2,170 2,990  4 Divided 3,300 4,660 5,900 6,530  6 Divided 4,950 6,990 8,840 9,790  Uninterrupted Flow Highway Adjustments  Lanes Median Exclusive left lanes Adjustment factors  2 Divided Yes 45%
Multiply the corresponding two-directional volumes in this table by 0.6	Multi Undivided Yes -5%  Multi Undivided No -25%
BICYCLE MODE <sup>2</sup> (Multiply motorized vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)  Paved Shoulder/Bicycle  Lane Coverage B C D B  0-49% * 260 680 1,770	Values shown are presented as peak hour two-way volumes for levels of service and are for the automobile/truck modes unless specifically stated. This table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for constor or intersection design, where usor refined techniques exist. Calculations are based on planning applications of the Highway Capacity Manual and the Transit Capacity and Quality of Service Manual.
0-49% * 260 680 1,770 50-84% 190 600 1,770 >1,770 85-100% 830 1,770 >1,770 **	<sup>2</sup> Level of service for the bicycle and pedestrian modes in this table is based on number of molorized vehicles, not immber of bicyclists or pedestrians using the facility. <sup>1</sup> Buses per hour shown are only for the peak hour in the single direction of the higher traffic
PEDESTRIAN MODE <sup>2</sup> (Multiply motorized vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)	flow.  # Campt be achieved using table input value defaults.  # Not applicable for that level of service letter grade. For the automobile imode,
Sidewalk Coverage     B     C     D     B       0-49%     *     *     250     850       50-84%     *     150     780     1,420       85-100%     340     960     1,560     >1,770	volumes greater than lovel of service D become F because interaction capacities have been reached. For the bioyoid mode, the level of service letter grade (methoding B) is not achievable because there is no maximum vehicle volume threshold using table input value defaults.
BUS MODE (Scheduled Fixed Route) <sup>3</sup> (Buses in peak hour in peak direction)	
Sidewalk Coverage       B       C       D       B         0-84%       >5       ≥4       ≥3       ≥2         85-100%       >4       ≥3       ≥2       ≥1	Source: Florida Department of Transportation Systems Planning Office www.dot.state.ft.us/planning/systems/sm/los/default.shim

#### 4.1. Roadway Type

Compatible with the terminology of the HCM, this Q/LOS Handbook and accompanying software are based on three major roadway types:

- Freeways
- Uninterrupted flow highways
- Interrupted flow roadways

#### 4.1.1. Freeways

**Freeways** are multilane, divided highways with at least two lanes for exclusive use of traffic in each direction and full control of ingress and egress.

#### 4.1.2. Highways

Uninterrupted flow highways are roadways with a combination of roadway segments, which have average signalized intersection spacing greater than 2 miles and are not freeways. Because of the significantly different operating characteristics, these types of roadways are frequently also distinguished as two-lane highways and multilane highways.

#### 4.1.3. Arterials

Interrupted flow roadways are characterized by signals with average signalized intersection spacing less than or equal to 2 miles. In this Q/LOS Handbook and accompanying software, signalized arterials are the predominant type of interrupted flow roadway. They primarily are operated by the state and serve through traffic. Also included in this category are signalized non-state roadways, but not local streets. As used here, signalized intersections refer to all fixed causes of interruption to the traffic stream, and may occasionally include STOP signs or other control types.

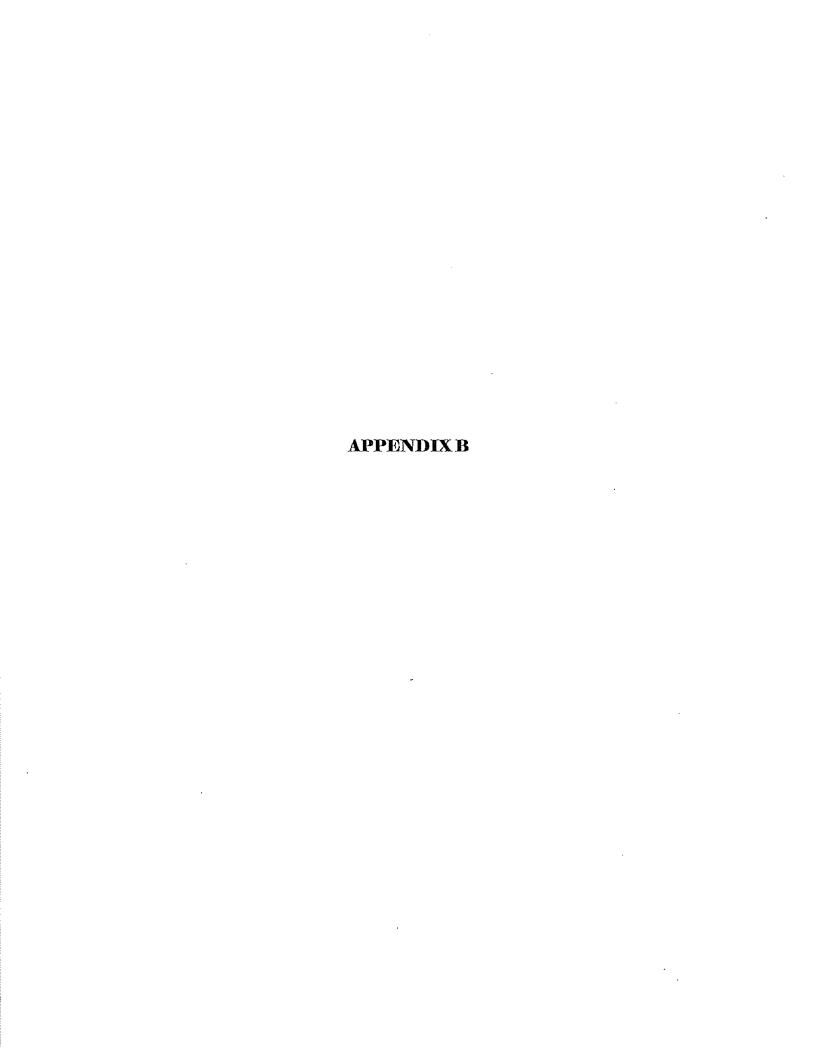
Arterials are further classified based on posted speed. There are two arterial classes:

- Class I Arterials with a posted speed of 40 mph or greater
- Class II Arterials with a posted speed of 35 mph or less

Freeways are divided highways with at least two lanes in each direction and full access control.

Uninterrupted flow highways are nonfreeway roadways that generally have uninterrupted flow, with average signalized intersection spacing greater than 2.0 miles.

Interrupted flow roadways are roadways with fixed causes of periodic delay or interruption and average signalized intersection spacing less than or equal to 2.0 miles.



# FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2021 HISTORICAL AADT REPORT

COUNTY: 14 - PASCO

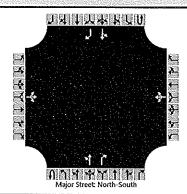
RD
CHANCY
OF
9,0
SR 3
ı
5308
SITE:

T FACTOR	16.60	18.20	14.40	14.50	14.30	14.30	14.60	13.90	14.30	14.50	15.20	13.40	16.60	14.40	16.50	14.30
D FACTOR	54.60	55.40	56.20	57.10	57.30	57.90	57.90	56.10	60.00	29.00	58.20	58.18	ω,			
DZ4	00.0	00.00	00.6	00.6	00.6	9.00	9.00	9.00	00.6	9.00	9.00	•	9.17		•	8 8 9
DIRECTION 2	s 7600	0069 8	0069 8		\$ 6800	s 6500	s 6100	s 6100					5900		S 6400	s 7000
DIRECTION 1	7300	N 6800	N 6500	N 6600	0099 N	N 6300	N 5900	N 6000	N 6000	N 5800	N 5400		N 5800		N 6300	N 6800
AADT	14900 C	13700 C	13400 C	13400 C		12800 C	ĺ	12100 C	11800 C	11600 C	10900 C	11700 C	11700 C	11600 C	12700 C	13800 C
YEAR	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006

Sonocity 3.28% Ŋ (1202-7102) LOVE (2016-2021) AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN \*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

\*K FACTOR:

HCS Two-Way Stop-Control Report											
General Information		Site Information									
Analyst	RP	Intersection	SR 39 / JERRY RD								
Agency/Co.	GCC	Jurisdiction	FDOT/PASCO								
Date Performed	12/12/2022	East/West Street	JERRY RD								
Analysis Year	2025	North/South Street	SR 39 (PAUL BUCHMAN HWY)								
Time Analyzed	AM PEAK HOUR	Peak Hour Factor	0.96								
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25								
Project Description	BACKGROUND TRAFFIC CONDITIONS 2025										



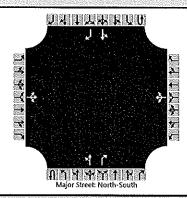
Approach		Eastb	ound		Westbound					North	bound			South	bound	
Movement	U	111 <b>1</b> 11	Т	R	U	i.	T	R	U	ii, ii	T	R	U	L	ा	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	<b>11</b>	0		0	11	0	0	0	310	1	0	0	1	1
Configuration		· · · · · · · · · · · · · · · · · · ·	LTR				LTR			LT		R		LT		R
Volume (veh/h)	Harri	4	0	Va <b>j</b> 16	Maid.	1	0	32	Hillian	0	594	0	BATTE!	12	660	3
Percent Heavy Vehicles (%)		0	0	0		7	7	7		0				27		
Proportion Time Blocked	unitar.	STEELS	13.55.55			Sec.	REEK!	SHA		BENE.	SHEET.		KA ST ACCES	Mar.	Maria	V. 1
Percent Grade (%)		(	0	·····		(	)	I							<u> </u>	
Right Turn Channelized	W.					Nell Ma	Hillian			N	o		Ville	N	lo	NA H
Median Type   Storage				Undi	vided								I			
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)	W/W.	7.10	6.50	6.20		7.17	6.57	6.27	MANA	4.10	43.65	ija is	WAR IS	4.37		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		$\vdash$
Follow-Up Headway (sec)		3,50	4.00	3.30	Mills	3,56	4.06	3.36		2.20	Hilli			2.44		Ne.
Delay, Queue Length, and	Leve	l of Se	ervice													
Flow Rate, v (veh/h)			5				34			0				13	Control of the Contro	2000000
Capacity, c (veh/h)			142		Villa is		442	il Milit		914			N. S.	851		18.5
v/c Ratio			0.04				0.08			0.00				0.01		
95% Queue Length, Q <sub>95</sub> (veh)	Yalisa	NAM!	0.1	Velsia	WES	WES	0.3	SHE		0.0			1535	~0.0		W.Y
Control Delay (s/veh)			31.4				13.8			8.9	0.0			9.3	\ 0.2	
Level of Service (LOS)	SEE	1888	D	MARK		\$1555 \$1555	В	William		Α	Α	No Paris		Α	/ <sub>A</sub>	11:1
Approach Delay (s/veh)		31	.4			/ 13	.8			0	.0			0	3	
Approach LOS		I			,,	人「	3 /		AND SE		<b>V</b> 155,54	/			<b>\</b>	A.A.

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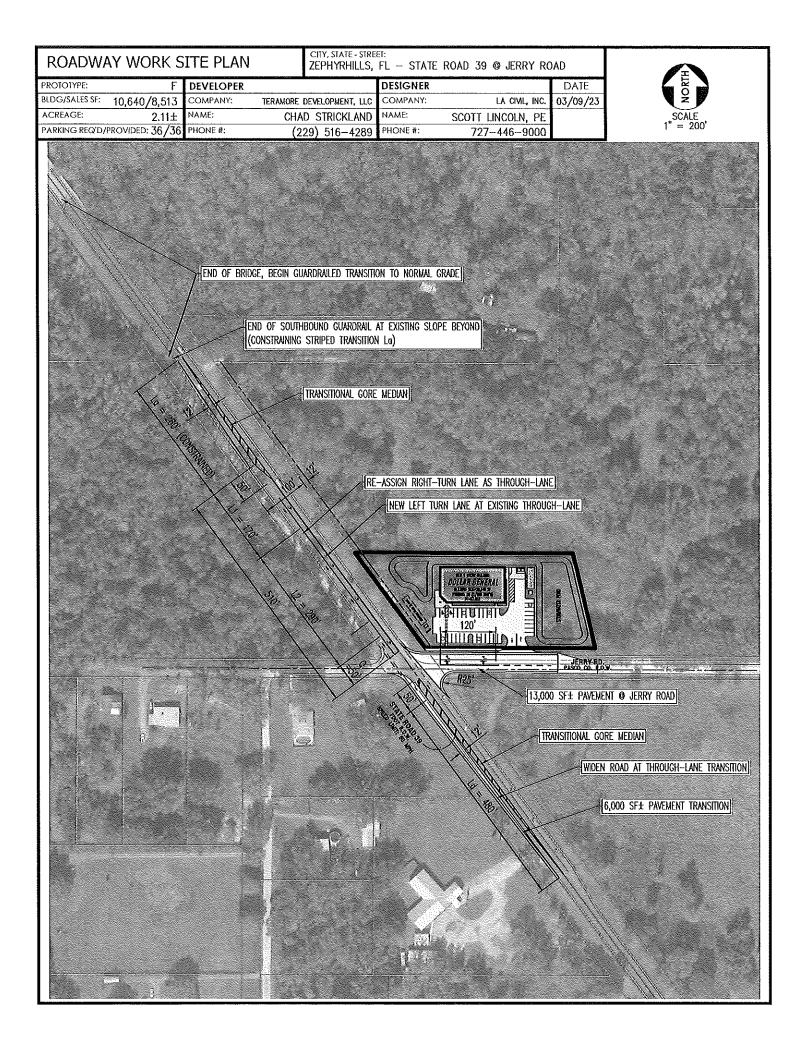
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HCS Two-Way Stop-Control Report										
General Information		Site Information								
Analyst	RP	Intersection	SR 39 / JERRY RD							
Agency/Co.	GCC	Jurisdiction	FDOT/PASCO							
Date Performed	12/12/2022	East/West Street	JERRY RD							
Analysis Year	2025	North/South Street	SR 39 (PAUL BUCHMAN HWY)							
Time Analyzed	PM PEAK HOUR	Peak Hour Factor	0.93							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description	BACKGROUND TRAFFIC CONDITIONS 2025									



Approach		Eastb	ound	7 7 27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		Westl	ound			North	bound			South	bound	
Movement	U	L	T	R	U	\ L	1	R	U	EL.	ंग अ	R	U		1	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes	NAME.	0	1.	0	enini.	0	1	0	0	0	11	1	0	0	<b>1</b>	1
Configuration			LTR				LTR			LT		R		LT		R
Volume (veh/h)	1831A	7	2	3		2	2	19		2	915	3	MARIE	24	615	5
Percent Heavy Vehicles (%)		0	0	0		5	5	5		7				11		
Proportion Time Blocked	Wall.		1,54,15	VARA			No.	ARTE.			MARK		144	N. S.		Vijik
Percent Grade (%)		(	)	•		(	)				<b>1</b>					
Right Turn Channelized			Milita	Mana	NEED!				####	Ν	o		53333	N	0	
Median Type   Storage			·····	Undi	vided											
Critical and Follow-up He	adwa	/S														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
			***************************************			_										10.10
Critical Headway (sec)	WWW	7.10	6.50	6.20		7.15	6.55	6.25		4.17	NAME:	MARKS.	REAL PROPERTY.	4.21	Man	14.71
Critical Headway (sec)  Base Follow-Up Headway (sec)	WWW	7.10 3.5	6.50 4.0	6.20 3.3		7.15 3.5	6.55 4.0	6.25 3.3		4.17 2.2	MAR			4.21 2.2	*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	****
	W.W.															
Base Follow-Up Headway (sec)	Leve	3.5 3.50	4.00	3.3 3,30		3.5	4.0	3.3		2,2				2,2		
Base Follow-Up Headway (sec) Follow-Up Headway (sec)	Leve	3.5 3.50	4.00	3.3 3,30		3.5	4.0	3.3		2,2				2,2		
Base Follow-Up Headway (sec) Follow-Up Headway (sec)  Delay, Queue Length, and	Leve	3.5 3.50	4.0 4.00 ervice	3.3 3,30		3.5	4.0 4.05	3.3		2.26				2.2		
Base Follow-Up Headway (sec) Follow-Up Headway (sec)  Pelay, Queue Length, and Flow Rate, v (veh/h)	Leve	3.5 3.50	4.0 4.00 ervice	3.3 3,30		3.5	4.05	3.3		2.26				2,2		
Base Follow-Up Headway (sec) Follow-Up Headway (sec)  Pelay, Queue Length, and Flow Rate, v (veh/h)  Capacity, c (veh/h)	Leve	3.5 3.50	4.0 4.00 ervice 13 85	3.3 3,30		3.5	4.0 4.05 25 195	3.3		2.2 2.26 2 900				2.2 2.30 26 666		
Base Follow-Up Headway (sec) Follow-Up Headway (sec)  Pelay, Queue Length, and Flow Rate, v (veh/h)  Capacity, c (veh/h)  v/c Ratio	Leve	3.5 3.50	4.0 4.00 ervice 13 85 0.15	3.3 3,30		3.5	4.0 4.05 25 195 0.13	3.3		2.2 2.26 2 900 0.00	0.0			2.2 2.30 26 666 0.04	0.5	
Base Follow-Up Headway (sec) Follow-Up Headway (sec)  Pelay, Queue Length, and Flow Rate, v (veh/h)  Capacity, c (veh/h)  v/c Ratio  95% Queue Length, Q <sub>95</sub> (veh)	Leve	3.5 3.50	4.0 4.00 13 85 0.15 0.5	3.3 3,30		3.5	4.05 25 195 0.13	3.3		2.2 2.26 2 900 0.00	0.0 A			2.2 2.30 26 666 0.04 0.1	) 0.5	

APPENDIX C



#### **Variety Store** $(8\dot{1}4)$

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

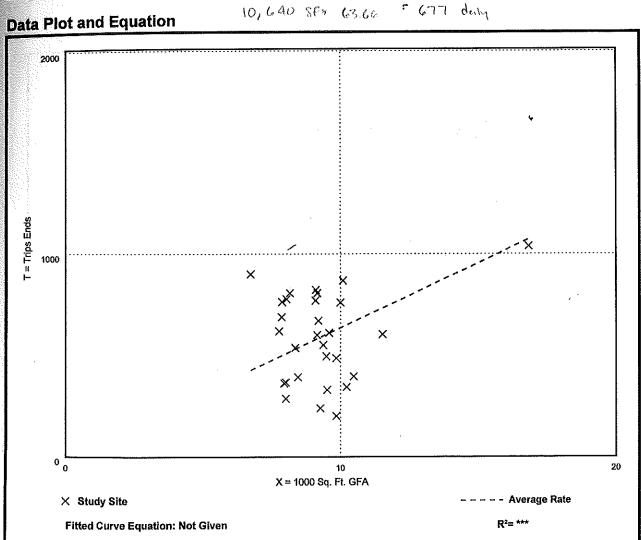
Setting/Location: General Urban/Suburban

Number of Studies: 29 Avg. 1000 Sq. Ft. GFA: 9

Directional Distribution: 50% entering, 50% exiting

#### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
63.66	20.51 - 133.68	25.23





#### **Variety Store** $(8\bar{1}4)$

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

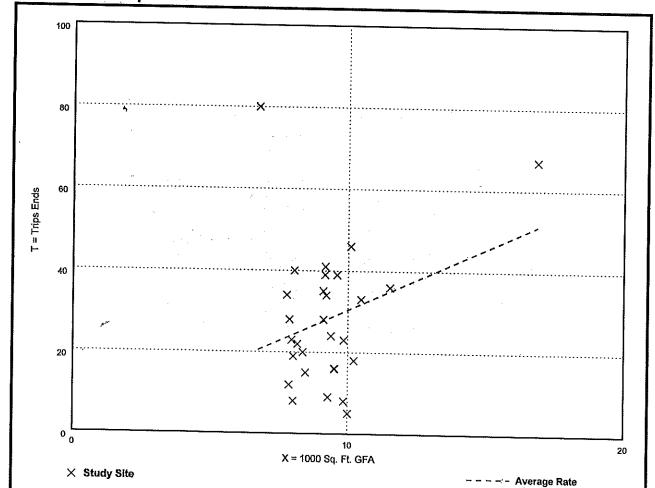
Number of Studies: 29 Avg. 1000 Sq. Ft. GFA; 9

Directional Distribution: 55% entering, 45% exiting

#### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.04	0.50 - 11.87	1.91
Data Plot and Equation	10,640 80 × 3.04 =	32 Am (18/14)

**Data Plot and Equation** 



R2= \*\*\*

Fitted Curve Equation: Not Given

#### **Variety Store** (814)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

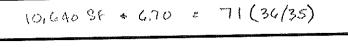
Number of Studies: 29 Avg. 1000 Sq. Ft. GFA: 9

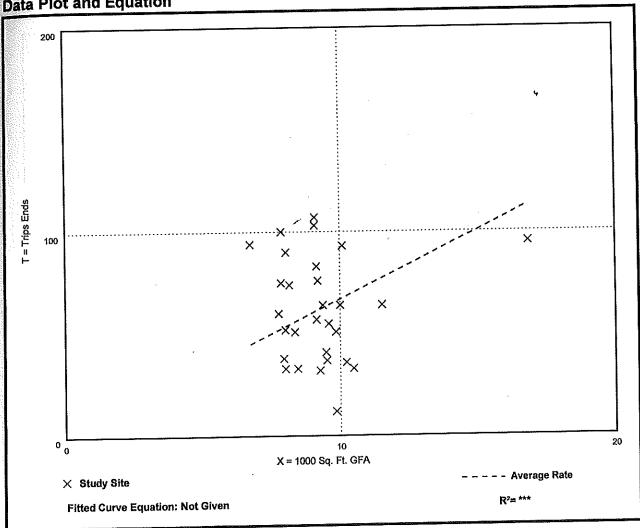
Directional Distribution: 51% entering, 49% exiting

#### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
6.70	1.22 - 13.95	3.08

#### Data Plot and Equation





## Table E.5 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period Land Use Code 814—Variety Store

SIZE (1,000	SQ. FT. WEEKDAY NO. OF PAS	MEENDAY	NO OF		DADD PM	NON-F	ASS-BY TRIP	ADJ. STREET		
		PASS-BY TRIP (%)	PRIMARY	DIVERTED	TOTAL	PEAK HOUR VOLUME	SOURCE			
8	Tallahassee, FL	May 2010	145	3:00-7:00 p.m.	30	. –	_	70	610	731
10	Jacksonville, FL	May 2010	127	3:00-7:00 p.m.	34	_	_	66	1,284	731
10	Tampa, FL	May 2010	247	3:00-7:00 p.m.	40	_	_	60	3,165	731
17	Tampa, FL	May 2010	50	3:00-7:00 p.m.	22	<b>†</b> –	_	78	1,380	731
10	Daytona Beach, FL	May 2010	154	3:00-7:00 p.m.	44	<b>—</b>	_	56	1,573	731

Average Pass-By Trip Percentage: 34

# Table E.6 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period Land Use Code 815—Free-Standing Discount Store

017E // 000 E 0		WEEKDAY				NON	PASS-BY TRIP (%	)	ADJ. STREET	
SIZE (1,000 SQ. FT. GFA)	LOCATION	SURVEY	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	PRIMARY	DIVERTED	TOTAL	PEAK HOUR VOLUME	SOURCE
116	Aubum, NY	Nov. 1994	80	4:00-6:00 p.m.	29	34	37	71	1,490	Bergmann Associates
116	Fredonia, NY	Nov. 1994	80	4:00–6:00 p.m.	24	46	30	76	1,620	Bergmann Associates
122	Marlton, NJ	Nov. 1994	73	4:15–5:15 p.m.	22	51	27	78	1,360	Raymond Keyes Assoc.
127	Marlton, NJ	Nov. 1994	23	4:00-5:00 p.m.	39	22	39	61	1,410	Raymond Keyes Assoc.
127	Tomis River, NJ	Nov. 1994	137	4:00–5:00 p.m.	13	46	41	87	1,430	Raymond Keyes Assoc.
128 -	Toms River, NJ	Nov. 1994	89	4:00-5:00 p.m.	7	60	33	93	1,290	Raymond Keyes Assoc.
128	Brick, NJ	Nov. 1994	48	4:15-5:15 p.m.	8	42	50	92	2,560	Raymond Keyes Assoc.
128	Brick, NJ	Nov. 1994	56	4:00-5:00 p.m.	14	47	39	86	2,550	Raymond Keyes Assoc.
126	Berlin, NJ	Feb. 1994	45	4:30-5:30 p.m.	7	75	18	93	1,230	Raymond Keyes Assoc.
126	Berlin, NJ	Feb. 1994	95	4:00-5:00 p.m.	1	61	38	99	1,430	Raymond Keyes Assoc.
133	Mays Landing, NJ	Feb. 1994	22	4:00-5:00 p.m.	9	82	9	91	3,640	Raymond Keyes Assoc.
133	Mays Landing, NJ	Feb. 1994	40	4:00-5:00 p.m.	3	55	42	97	3,700	Raymond Keyes Assoc.
127	Toms River, NJ	Sept. 1994	58	4:00-5:00 p.m.	14	65	21	86	1,380	Raymond Keyes Assoc.
127	Toms River, NJ	Sept. 1994	83	4:15–5:15 p.m.	13	58	29	87	1,390	Raymond Keyes Assoc.
128	Brick, NJ	Sept. 1994	117	4:30-5:30 p.m.	27	47	26	73	2,640	Raymond Keyes Assoc.
128	Brick, NJ	Sept. 1994	98	4:00–5:00 p.m.	30	49	21	70	2,640	Raymond Keyes Assoc,
127	Berlin, NJ	Sept. 1994	35	4:00-5:00 p.m.	9	71	20	91	1,240	Raymond Keyes Assoc.
88	Omaha, NE	-	-	4:00-6:00 p.m.	23	26	51	77	_	University of Nebraska-Linco
100	Omaha, NE	-	-	4:00-6:00 p.m.	22	32	46	78	-	University of Nebraska-Linco
100 /	Omaha, NE	_	-	4:00-6:00 p.m.	29	22	49	71	-	University of Nebraska—Linco
88	Omaha, NE	_	-	4:00-6:00 p.m.	19	33	48	81	-	University of Nebraska—Linco
68	Omaha, NE	, _	_	4:00-6:00 p.m.	19	21	60	81	_	University of Nebraska—Linco

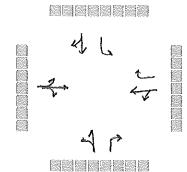
Average Pass-By Trip Percentage: 17



<sup>&</sup>quot;—" means no data were provided

<sup>&</sup>quot;—" means no data were provided

HCS Two-Way Stop-Control Report										
General Information		Site Information								
Analyst	RP	Intersection	SR 39 / JERRY RD							
Agency/Co.	GCC	Jurisdiction	FDOT/PASCO							
Date Performed	02/13/2023	East/West Street	Jerry RD							
Analysis Year	2025	North/South Street	SR 39 (PAUL BUCHMAN HWY)							
Time Analyzed	AM PEAK HOUR	Peak Hour Factor	0.96							
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25							
Project Description	FUTURE CONDITIONS WITH PROJECT 2025	W								



ADD SBLT LANE CONVERT SBRT TO SBT+R ADD WB RT LANE

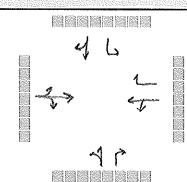
Approach		Eastb	ound			Westl	bound			North	bound			South	bound	
Movement	ij.	L.	T	R	U	L.	T	R	U	L	J.A	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	4	0	NA (A	0	1	11.	0	0	1	11	0	1	1	0
Configuration			LTR			LT		R		LT		R		L		TR
Volume (veh/h)	ENTER	4	0	1	14.350	6	0	40		0	594	7	143.000	22	660	23
Percent Heavy Vehicles (%)		0	0	0		7	7	7		0				27		
Proportion Time Blocked	1330	sharih	100 (10)			N.E.	13,3300	Amin'r		14.14.			75,533	1944	No.	
Percent Grade (%)		(	0				0								·	
Right Turn Channelized			ABAS W	pakan)	53::A.	, , , , , , , , , , , , , , , , , , ,	lo	ja kiri	0.555	N	0					
Median Type   Storage				Undi	vided											
Critical and Follow-up He	adwa	ys														
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1		
Critical Headway (sec)	Nikitei	7.10	6.50	6.20	1900	7.17	6.57	6,27	jaritir	4.10	AND	Natifi	Marian.	4.37		Barry.
Base Follow-Up Headway (sec)		3.5	4.0	3,3		3.5	4.0	3.3		2.2	····			2.2		
Follow-Up Headway (sec)	N.A.	3.50	4.00	3,30	With.	3.56	4.06	3.36		2.20	:DAVA	MARK		2.44	<u> Mijiraa</u>	480
Delay, Queue Length, and	Leve	of Se	ervice													
Flow Rate, v (veh/h)			5			6		42		0				23		
Capacity, c (veh/h)	NAME.	3131.5	134	VIVE.	Khili	120	STEELS.	477		914		1,500.0	i dikarii	846		13.5
v/c Ratio			0.04			0.05		0.09		0.00				0.03		
95% Queue Length, Q <sub>95</sub> (veh)	15331	NAME:	0.1	74.00	Q	0.2	17.5 ma	0.3	MA INTO	0.0		38.5	Harri	0.1	NEEDS.	1665
Control Delay (s/veh)			33.0			36.7		13,3		8.9	0.0		/	9.4	)	
Level of Service (LOS)	13.3.15 No. 13.15	15.5	D	0.00		E		В	NEED	Α	Α	111111	/	Α /	, the state	34.1.1
Approach Delay (s/veh)		33	3.0			10	5.3			0	0			0	.3	
Approach LOS	v.h:440		) · · · · · · · ·		and the same	1	م ال	11-43-24-2			V 400 (1)			· · · · · · · · · · · · · · · · · · ·	<b>\</b> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

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HCSTM TWSC Version 2022 SR39JERRYAMWP.xtw Generated: 3/13/2023 11:40:12 AM SBLA SR 39

WB JERRY RD.

	HCS Two-Way Stop	-Control Report	
General Information		Site Information	
Analyst	RP	Intersection	SR 39 / JERRY RD
Agency/Co.	GCC	Jurisdiction	FDOT/PASCO
Date Performed	03/13/2023	East/West Street	JERRY RD
Analysis Year	2025	North/South Street	SR 39 (PAUL BUCHMAN HWY)
Time Analyzed	PM PEAK HOUR	Peak Hour Factor	0.93
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	FUTURE CONDITIONS WITH PROJECT 2025		



ADD SBLT LANE CONVERT SBRT TO SBT + R ADD WBRT LANE

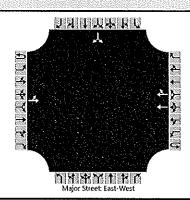
Vehicle Volumes and Adju	ıstme	nts																
Approach		Eastb	ound			West	oound			North	bound		Southbound					
Movement	U	$\Gamma$	ा ।	R	U	L	Ţ	R	U	L.	T	R	U	. L	Т	R		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes	AVANII.	0	11.	0	esse.	0	1	1	0	0	:: <sub>1</sub> \:	1	0	1	S <b>1</b> S	0		
Configuration			LTR			LT	· ·	R		LT		R		L		TR		
Volume (veh/h)		7	2	3		16	2	38	an Part	2	915	17	1945,191.	44	615	5		
Percent Heavy Vehicles (%)		0	0	0		5	5	5		7				11				
Proportion Time Blocked	Mark	13.13	14(14)41		THE	14.15			1,510	Nagari	A SEC	NAME:		\$ 2.5 mg		14.11.		
Percent Grade (%)		(	0				0	<u> </u>				•				•		
Right Turn Channelized	10:10	AHAM.			Hilli	<b>N</b>	ю			No								
Median Type   Storage				Undi	vided													
Critical and Follow-up He	adwa	ys																
Base Critical Headway (sec)		7.1	6.5	6.2		7.1	6.5	6.2		4.1				4.1				
Critical Headway (sec)	HAM	7.10	6.50	6.20	gya aba	7.15	6.55	6.25	155454	4.17	MER		Na <sub>1</sub> h	4.21	Market.	75.1		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2				
Follow-Up Headway (sec)		3.50	4.00	3.30		3,55	4.05	3.35		2.26	ENA	MANG		2.30		Rang		
Delay, Queue Length, and	l Leve	l of Se	ervice															
Flow Rate, v (veh/h)			13			19		41		2				47				
Capacity, c (veh/h)	en de	N. S.	73	125.00	MAN.	60	SNA	294	100000	900		33.00	Basis	657				
v/c Ratio			0.18			0.32		0.14		0.00				0.07				
95% Queue Length, Q <sub>95</sub> (veh)			0.6	(AMM)	NEAT	1,2		0.5	and the second	0.0	444.57		SERVER	0.2	GAS.	1444		
Control Delay (s/veh)			64.7			90.9		19.2		9.0	0.0		7	10,9				
Level of Service (LOS)	1,000	14.17.11.11	F	144	1300	F	j. Natio	С	Milita.	Α	Α	1,7411.	支	В		1971		
Approach Delay (s/veh)		64	1.7			42.3			0.0				0.7					
Approach LOS	1,11,1		F. (1) 11 11 11	1,3,5,45	19.00	1	E )	13.004	10,1000	.1	A	7	Sp. S	1,1,1,1,1,1	4	14444,		

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HCS TWSC-Version 2022 SR39JERRYPMWP.xtw Generated: 3/13/2023 11:44:25 AM SBLT SR 39

WB JERRY RD

HCS Two-Way Stop-Control Report												
General Information		Site Information										
Analyst	RP	Intersection	JERRY ROAD / DRIVE A									
Agency/Co.	GCC	Jurisdiction	PASCO A SESSE SESS									
Date Performed	12/12/2022	East/West Street	Jerry Road									
Analysis Year	2025	North/South Street	DRIVE A									
Time Analyzed	AM PEAK HOUR	Peak Hour Factor	0.96									
Intersection Orientation	East-West	Analysis Time Period (hrs)	.0.25									
Project Description	FUTURE CONDITIONS WITH PROJECT 2025											

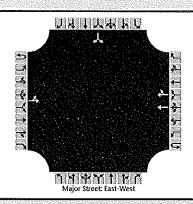


Approach		Eastb	ound		Westbound				Westbound Northbound					Southbound				
Movement	U	L	1	R	U	NE SE	ंग ं	R	U	L	T	R	U	AL N	ंत्र 🖺	R		
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12		
Number of Lanes	0	0	ា	0	0	0	2	0	AMESE	0	0	0	1445	0	1	0		
Configuration		LT					Т	TR							LR			
Volume (veh/h)	MARK	17	12	White	giana:	TWEE	33	in .:			MARIE	Victor	VANSE.	<b>14</b> 8	Verille	13		
Percent Heavy Vehicles (%)		3												3		3		
Proportion Time Blocked	THE STATE		MAN		A SECTION AND A	THE ST	- BARR	V. State	Vallati.	MAN.		Villa.	11111	1511	SHA	133		
Percent Grade (%)											<b>4</b>			- (	)			
Right Turn Channelized	MARK	Henda	ing i da						AHAN		(Marie		Will.			SH.		
Median Type   Storage				Undi	vided		· · · · · · · · · · · · · · · · · · ·											
Critical and Follow-up He	adwa	ys																
Base Critical Headway (sec)		4.1												7.5		6.9		
Critical Headway (sec)	BARA	4.16		Ness		13.000	HAMM	ilviii,	Sint		RESE	MARK	Maria	6.86	WANE.	6.96		
Base Follow-Up Headway (sec)		2,2					1							3.5		3,3		
Follow-Up Headway (sec)		2,23	MAMA	W.						Alim)				3.53		3.33		
Delay, Queue Length, and	Leve	l of S	ervice															
Flow Rate, v (veh/h)		18													15			
Capacity, c (veh/h)	N.S.	1567	N. Table	Vani	34345	Min				3333		100.00	1441		1040	1.51		
v/c Ratio		0,01													0.01			
95% Queue Length, Q <sub>95</sub> (veh)	MAN	_0.0		MARA	Vigin	THE ST	SEAR			ALA.		1111111	Here	Man	0,0			
Control Delay (s/veh)	/	7.3	0.1												8.5			
Level of Service (LOS)	NEED!	Α	/ A			MANA HAMA	ESTE STATE	Kin	ikili:	1411			N. S.	X	Α	11.		
Approach Delay (s/veh)	7	4	.3					-				8.5						
Approach LOS	A Janes A American								1		and the spiritual							

EXIT

EBLT JERRY PD

	HCS Two-Way Stop	-Control Report	
General Information		Site Information	
Analyst	RP	Intersection	JERRY ROAD / DRIVE A
Agency/Co.	GCC	Jurisdiction	PASCO
Date Performed	12/12/2022	East/West Street	JERRY ROAD
Analysis Year	2025	North/South Street	DRIVE A
Time Analyzed	PM PEAK HOUR	Peak Hour Factor	0.93
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	FUTURE CONDITIONS WITH PROJECT 2025		



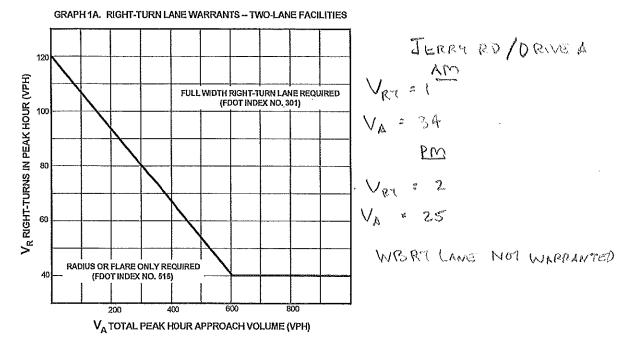
Vehicle Volumes and Adju	ıstme	nts																
Approach		Eastb	ound			West	oound			North	bound		Southbound					
Movement	U	NE H	ा	R	U	HL M	T	R	U	L	ं प्र	R	U	L	T	R		
Priority	1U	1	2	3	4U	4	5	6		7	8	9		10	11	12		
Number of Lanes	0	0	1.	0	0	0	2	0	in the	0	0	0	111112	0	1 1	0		
Configuration		LT					Т	TR							LR			
Volume (veh/h)	10.000	34	29	ANIA)			23	2	Hara	VEVE				2		33		
Percent Heavy Vehicles (%)		3												3		3		
Proportion Time Blocked		HERM	1000000	MARK.			With:			M.E.		WHY:		NAME:		113 1133		
Percent Grade (%)														i	0	•		
Right Turn Channelized	MANA		Mai K	Verselle.	MHH	NA PART						NEAR	anene	harren.				
Median Type   Storage				Undi	vided													
Critical and Follow-up He	adwa	ys																
Base Critical Headway (sec)		4.1												7.5		6.9		
Critical Headway (sec)	NAME:	4.16	NAME	HANN!	HAM		MAN	WW	11.53411	MARE	kining?	355	3.55	6.86	WENE	6.96		
Base Follow-Up Headway (sec)		2.2												3.5		3.3		
Follow-Up Headway (sec)		2.23	NES.		Milk	ATTEN	i Need			NAME.			EN PART	3.53		3.33		
Delay, Queue Length, and	Leve	l of Se	ervice				8 8 8 5 44 8											
Flow Rate, v (veh/h)		37													38			
Capacity, c (veh/h)		1578				ERRE		Albert .	S. Link				ahisi:	B.D.S.	1043	13.1		
v/c Ratio		0.02													0.04			
95% Queue Length, Q <sub>95</sub> (veh)	an and a	0.1	WAR.	HANN	0.000	MAG		联轮	<u>į, kiri</u>	N. I.S.		uki	Malij	ESS	0,1	Addi		
Control Delay (s/veh)		7.3	0.2												8.6			
Level of Service (LOS)		A /	Α	, identi	Mini	NAME				3000	1450E	MARK	Marij		Α			
Approach Delay (s/veh)	7	4	.0											<b>(</b> 8	6	1		
Approach LOS	/		4					11 11 15	3,444			1944,545	NA S		A )	25,343		

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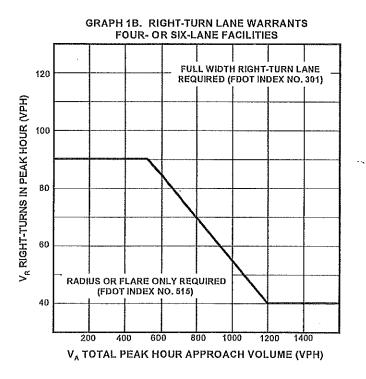
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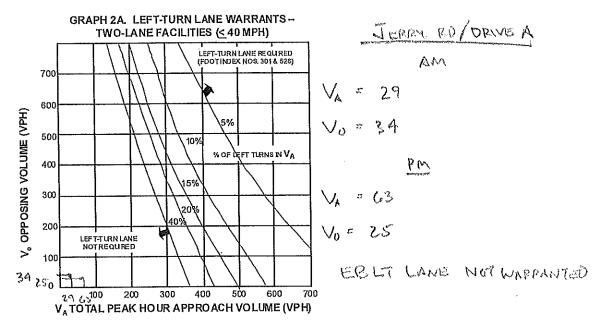


NOTE: For posted speeds at or under forty-five (45) mph, peak hour right turns greater than forty (40) VPH, and total peak hour approach less than 300 VPH, adjust right turn volumes. Adjust peak hour right turns = peak hour right turns—twenty (20).

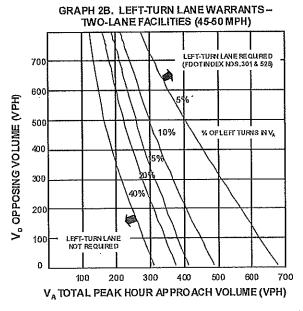


NOTE: For application on high speed highways.

Graphs 1A & 1B Source: National Cooperative Highway Research Program, Report No. 279.



NOTE: Left-turn lane not required when intersection of  $V_A$  and  $V_O$  is below the curve corresponding to the % of left turns in  $V_A$ .



**NOTE:** Left-turn lane not required when intersection of  $V_A$  and  $V_O$  is below the curve corresponding to the % of left turns in  $V_A$ .

Graphs 2A & 2B Source: National Cooperative Highway Research Program, Report No. 279.