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TRAFFIC IMPACT STATEMENT

FARRELL WELLINGTON – ESTATES WEST VILLAGE OF WELLINGTON, FLORIDA

Prepared for:

Farrell Building Company 2317 Montauk Highway PO Box 14 Bridgehampton, New York 11932

Job No. 21-196

Date: June 20, 2022 Revised: October 11, 2022 Revised: November 11, 2022 Anna Lai, P.E., PTOE FL Reg. No. 78138

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1.0 SITE DATA

The subject parcel is located on the southwest corner of Forest Hill Boulevard and Polo Club Drive in the Village of Wellington and contains approximately 22.98 acres. The Property Control Numbers (PCNs) for the subject parcel are the following:

73-41-44-14-00-000-1020 73-41-44-14-00-000-1060 73-41-44-14-00-000-3070

The property is currently designated as Open Space Recreation in the Village of Wellington Comprehensive Plan. The property owner is requesting a change in the 22.98 acre parcel's designation to Residential "C" which allows 3 units per acre on the Village of Wellington's Comprehensive Plan.

The proposed plan of development is to consist of 27 single family dwelling units with a project build-out of 2026. Site access is proposed via two full access driveway connections to Sunnydale Drive. For additional information on site layout, please refer to the Site Plan prepared by Litterick Landscape Architecture.

2.0 PURPOSE OF STUDY

This study will analyze the proposed development's impact on the surrounding major thoroughfares within the project's radius of development influence in accordance with the Village of Wellington Traffic Performance Standards. Additionally, the study will include the analysis for the Land Use Plan Amendment (LUPA) change to Residential "C" – 3 dwelling units per acre.

3.0 TRAFFIC GENERATION

LUPA ANALYSIS

The increase in daily traffic generation due to the requested change in the 22.98 acre parcel's land use designation may be determined by taking the difference between the total traffic generated for the most intensive land use under the existing Open Space Recreation future land use designation and the proposed Residential "C" (3 dwelling units per acre) future land use designation:

Open Space Recreation

The most intensive land use for the existing Open Space Recreation land use designation is "Public Park". The maximum allowable intensity for the designated acreage under the existing Open Space Recreation land use designation is 22.98 acres.

Public Park (22.98 acres)

Table 1 shows the daily traffic generation, and Tables 2 and 3 show the AM and PM peak hour traffic generation, respectively, in peak hour trips (pht) for the property under the existing Open Space Recreation land use designation. The traffic generation has been calculated in accordance

3.0 TRAFFIC GENERATION (CONTINUED)

with the traffic generation rates listed in the ITE Trip Generation Manual, 11th Edition and may be summarized as follows:

Existing Future Land Use

Daily Traffic Generation = 18 tpd

AM Peak Hour Traffic Generation (In/Out) = 0 pht (0 In/0 Out) PM Peak Hour Traffic Generation (In/Out) = 3 pht (2 In/1 Out)

Residential "C" - 3 Dwelling Units per Acre

The most intensive land use for the proposed Residential "C" (3 DU/acre) land use designation is "Single Family Detached". Based on a maximum density of 3 dwelling units per acre and the site area consisting of 22.98 acres, the maximum allowable number of dwelling units for the designated acreage under the proposed Residential "C" (3 DU/acre) land use designation is 69 dwelling units calculated as follows:

The trip generation for the maximum potential of 68 single family dwelling units is shown in Tables 4-6 and may be summarized as follows:

Proposed Future Land Use

Daily Traffic Generation = 680 tpd

AM Peak Hour Traffic Generation (In/Out) = 48 pht (12 In/36 Out) PM Peak Hour Traffic Generation (In/Out) = 64 pht (40 In/24 Out)

The change in traffic generation due to the requested change in the parcels' land use designations is shown in Table 7 and is summarized as follows:

LUPA Trip Difference

Daily Traffic Generation = 662 tpd INCREASE

AM Peak Hour Traffic Generation = 48 pht INCREASE

PM Peak Hour Traffic Generation = 61 pht INCREASE

Table 8 represents the Year 2045 Analysis. The total anticipated Year 2045 traffic meets the adopted Level of Service requirements within the project's radius of influence, per the Palm Beach County 1989 Comprehensive Plan Policy 3.5-d.

ZONING TRAFFIC ANALYSIS

In addition to the LUPA traffic analysis, a trip generation analysis has also been performed for the proposed use. The trip generation for the proposed 27 single family dwelling units is shown in Tables 9-11 and may be summarized as follows:

Proposed Use

Daily Traffic Generation = 270 tpd

AM Peak Hour Traffic Generation (In/Out) = 19 pht (5 In/14 Out) PM Peak Hour Traffic Generation (In/Out) = 25 pht (16 In/9 Out)

4.0 PART TWO LINK ANALYSIS

Based on the Village of Wellington Unified Land Development Code Article 9, a project must address all Wellington roadway links on which the net directional trips are greater than 1% of the LOS D of the link affected on a peak hour directional basis. If no links are significantly impacted, an analysis shall be completed.

Figure 1 shows the trip distribution, which is based on the current and projected roadway geometry, a review of historical travel patterns for the area, and on the existing and anticipated traffic patterns.

Tables 12 and 13 show the project assignment as well as the applicable Level of Service Standard for each of the links within the project's radius of development influence. As shown in Tables 14 and 15, all impacted links meet the applicable Level of Service standard.

5.0 SITE RELATED IMPROVEMENTS

The AM and PM peak hour turning movement volumes and directional distributions at the project entrance(s) for the overall development are shown in Tables 10 and 11 and may be summarized as follows:

DIRECTIONAL DISTRIBUTION (TRIPS IN/OUT)

AM = 5/14PM = 16/9

Figure 2 presents the AM and PM peak turning movement volume assignments at the project driveway based on the directional distributions. As previously stated, site access is proposed via two full access driveway connections to Sunnydale Drive. Based on the proposed trip generation and turning movement volumes and Palm Beach County turn lane requirements, no additional turn lanes appear warranted.

6.0 INTERSECTION ANALYSIS

As requested by the Village of Wellington, capacity analysis of the Forest Hill Boulevard at Royal Fern Drive/Polo Club Road intersection was performed and is included in Appendix D.

7.0 CONCLUSION

The proposed development of 27 single family dwelling units has been estimated to generate 270 trips per day, 19 AM peak hour trips, and 25 PM peak hour trips at project build-out in 2026. A brief review of the links within the project's radius of development influence reveals that the proposed development meets the requirements of the Village of Wellington Traffic Performance Standards.

APPENDIX A

LAND USE CHANGE TRAFFIC ANALYSIS

FARRELL WELLINGTON - ESTATES WEST

EXISTING OPEN SPACE RECREATION FUTURE LAND USE DESIGNATION - 22.98 ACRES

TABLE 1 - Daily Traffic Generation

	ITE				Dir S	Split		Inte	ernalization		Pass-	by	
Landuse	Code	l	ntensity	Rate/Equation	In	Out	Gross Trips	%	Total	External Trips	%	Trips	Net Trips
Public Park	411	22.98	Dwelling Units	0.78			18		0	18	0%	0	18
•			Grand Totals:				18	0.0%	0	18	0%	0	18

TABLE 2 - AM Peak Hour Traffic Generation

	ITE				Dir	Split	Gr	oss T	rips	Inte	rnalia	zation		Ext	ernal '	Trips	Pass-	by	١	let Tri	ps
Landuse	Code	li li	ntensity	Rate/Equation	In	Out	In	Out	Total	%	In	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Public Park	411	22.98	Dwelling Units	0.02	0.59	0.41	0	0	0	0.0%	0	0	0	0	0	0	0%	0	0	0	0
			Grand Totals:				0	0	0	#DIV/0!	0	0	0	0	0	0	#DIV/0!	0	0	0	0

TABLE 3 - PM Peak Hour Traffic Generation

	ITE				Dir	Split	Gr	oss T	rips	Inte	ernalia	zation		Ext	ernal '	Trips	Pass-	by	1	let Tri	ps
Landuse	Code	li	ntensity	Rate/Equation	In	Out	In	Out	Total	%	ln	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Public Park	411	22.98	Dwelling Units	0.11	0.55	0.45	2	1	3	0.0%	0	0	0	2	1	3	0%	0	2	1	3
			Grand Totals:				2	1	3	0.0%	0	0	0	2	1	3	0%	0	2	1	3

Based on the ITE Trip Generation Manual (11th edition).



EXISTING RESIDENTIAL "C" FUTURE LAND USE DESIGNATION - 68 DWELLING UNITS

TABLE 4 - Daily Traffic Generation

	ITE				Dir	Split		Inte	ernalization		Pass-	by	
Landuse	Code	-	ntensity	Rate/Equation	In	Out	Gross Trips	%	Total	External Trips	%	Trips	Net Trips
Single Family Detached	210	68	Dwelling Units	10			680		0	680	0%	0	680
•			Grand Totals:				680	0.0%	0	680	0%	0	680

TABLE 5 - AM Peak Hour Traffic Generation

	ITE				Dir	Split	Gr	oss T	rips	Inte	ernaliz	zation		Ext	ernal '	Trips	Pass	-by	1	let Tri	os
Landuse	Code	I	ntensity	Rate/Equation	In	Out	In	Out	Total	%	In	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Single Family Detached	210	68	Dwelling Units	0.7	0.26	0.74	12	36	48	0.0%	0	0	0	12	36	48	0%	0	12	36	48
			Grand Totals:				12	36	48	0.0%	0	0	0	12	36	48	0%	0	12	36	48

TABLE 6 - PM Peak Hour Traffic Generation

	ITE				Dir	Split	Gr	ross T	rips	Inte	ernaliz	ation		Ext	ernal '	Trips	Pass-	by	1	let Tr	ps
Landuse	Code	I	ntensity	Rate/Equation	In	Out	In	Out	Total	%	ln	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Single Family Detached	210	68	Dwelling Units	0.94	0.63	0.37	40	24	64	0.0%	0	0	0	40	24	64	0%	0	40	24	64
			Grand Totals:				40	24	64	0.0%	0	0	0	40	24	64	0%	0	40	24	64

Based on the ITE Trip Generation Manual (11th edition).



FARRELL WELLINGTON - ESTATES WEST

TABLE 7

LAND USE PLAN AMENDMENT FROM OPEN SPACE RECREATION TO RESIDENTIAL "C"

TRAFFIC GENERATION INCREASE

		AM	PEAK H	DUR	PM	PEAK HO	DUR
	DAILY	TOTAL	IN	OUT	TOTAL	IN	OUT
EXISTING FUTURE LAND USE DESIGNATION =	18	0	0	0	3	2	1
PROPOSED FUTURE LAND USE DESIGNATION =	680	48	12	36	64	40	24
INCREASE =	662	48	12	36	61	38	23

TABLE 8

LAND USE PLAN AMENDMENT FROM OPEN SPACE RECREATION TO RESIDENTIAL "C"
(YEAR 2045)

MAXIMUM DEVELOPMENT INTENSITY - NET INCREASE

PROJECT: FARRELL WELLINGTON - ESTATES WEST

EXISTING FUTURE LAND USE DESIGNATION: OPEN SPACE RECREATION

EXISTING UNDERLYING FUTURE LAND USE DESIGNATION: NONE TRIPS PER DAY = 18

PROPOSED FUTURE LAND USE DESIGNATION: RESIDENTIAL "C"

PROPOSED UNDERLYING FUTURE LAND USE DESIGNATION: NONE

TRIPS PER DAY = 680

TRIP INCREASE = 662

ROADWAY	FROM	то	DISTRIBUTION (%)	PROJECT TRAFFIC	LANES	LOS D CAPACITY	TRIP INCREASE	2045 PBC MPO TRAFFIC VOLUME	TOTAL 2045 TRAFFIC	V/C RATIO	PROJECT SIGNIFICANCE*
FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD	SITE	30%	199	6	59,900	0.33%	52,800	52,999	0.88	NO
FOREST HILL BOULEVARD	SITE	SR 7	70%	463		59,900	0.77%	52,800	53,263	0.89	NO

^{*} Project is significant when net trip increase is greater than 1% for v/c of 1.4 or more, 2% for v/c of 1.2 or more and 3% for v/c less than 1.2.



SERPM 8 2045 Cost Feasible Adjusted Two-Way Traffic Volumes - Palm Beach County

PBC Station	FDOT Station	Roadway	From	То	Existing Lanes	Cost Feasible Lanes	2005 Counts	2010 Count	2015 Count	2018 Count	2015 Model	2045 Model	2045 Adjusted
1801	937363	DONALD ROSS RD	Prosperity Farms Rd	Ellison-Wilson Rd	4	6	27,337	26,081	27,134	30,207	9,981	14,807	32,000
1801	937363	DONALD ROSS RD	Ellison-Wilson Rd	US 1	4	6	27,337	26,081	27,134	30,207	9,981	14,807	32,000
	930701	DONALD ROSS RD	US 1	A1A	3	3	27,337		-	-	2,543	2,654	2,700
3638	937332	DREXEL RD	Okeechobee Bl	Belvedere Rd	2	2	10,638	10,286	9,989	10,698	14,509	12,234	7,700
	937619	DUDA RD	G2 Canal Rd	Cr-880	2	2					322	328	300
	937703	DYER BLVD	Haverhill Blvd	Military Tr	2	2			-		3,507	5,390	5,400
	937494	E CANAL ST	SR-717	SR-80	2	2			-		1,275	1,562	1,600
	937569	E OCEAN AVE	Seacrest Blvd	Federal Hwy	2	2			-		5,890	8,860	8,900
5634	937297	EL CLAIR RANCH RD	Lake Ida Rd	W Atlantic Ave	2	2	6,566	5,120	5,585	6,141	2,951	3,306	5,900
5636	937298	EL CLAIR RANCH RD	Woolbright Rd	Piper's Glen Blvd	2	2	8,001	7,414	7,080	7,093	4,941	4,853	7,000
5632	937296	EL CLAIR RANCH RD	Boynton Beach Blvd	Woolbright Rd	2	2	5,562	5,359	4,998	5,563	6,121	8,272	7,100
2844	937058	ELLISON-WILSON RD	PGA Blvd	Universe Blvd	2	2	11,653	13,804	10,237	10,985	8,630	10,355	12,300
2304	938519	ELLISON-WILSON RD	Universe Blvd	Donald Ross Rd	2	2	6,147	5,669	6,291	6,845	4,413	6,809	8,700
3661	937333	ELMHURST RD	Haverhill Rd	Military Tr	2	2	10,363	7,776	8,269	8,716	7,100	8,535	9,900
6850	937499	FAU BLVD	Glades Rd	20th St NW	4	4	9,953		10,400	6,900	7,521	17,482	20,400
6876	937499	FAU BLVD	20th St NW	Spanish River Blvd	2	2	11,757	13,691	10,400	17,771	7,521	17,482	20,400
4824	930221	FEDERAL HWY	6th Ave S	Lake Ave (LW)	2	2	13,121	9,333	9,428	9,200	4,932	6,289	10,800
4802	935056	FEDERAL HWY	Lucerne Ave	6th Ave N	2	2	14,217	9,925	10,693	9,300	7,398	8,538	11,800
3912	935081	FLAGLER DR	Forest Hill Blvd	Plymouth Rd	2	2	2,609		6,400		942	1,925	7,400
3894	935081	FLAGLER DR	Plymouth Rd	Southern Blvd	2	2	3,162		6,400		942	1,925	7,400
3870	938517	FLAGLER DR	Southern Blvd	Barcelona Rd	2	2	7,006	-	6,500	5,500	506	1,959	8,000
3854	938517	FLAGLER DR	Barcelona Rd	Okeechobee Bl	4	4	13,375	-	6,500	5,500	506	1,959	8,000
3852	938516	FLAGLER DR	Okeechobee Bl	Banyan Blvd	4	4	17,558		9,700	9,600	7,949	10,560	12,900
3838	938516	FLAGLER DR	Banyan Blvd	Loftin St	4	4	15,587		9,700	9,600	7,949	10,560	12,900
3832	938516	FLAGLER DR	Loftin St	Palm Beach Lakes Blvd	4	4	17,980		9,700	9,600	7,949	10,560	12,900
3824	938516	FLAGLER DR	Palm Beach Lakes Blvd	26th St	4	4	17,973		9,700	9,600	7,949	10,560	12,900
3808	938516	FLAGLER DR	26th St	36th St	2	2	11,294		9,700	9,600	7,949	10,560	12,900
PBC036	PBC036	FLAVOR PICT RD	SR-7	Lyons Rd	2	4			-		1,098	12,146	12,100
PBC035	PBC035	FLAVOR PICT RD	Lyons Rd	Hagen Ranch Rd	0	4						19,834	19,800
5663	937151	FLAVOR PICT RD	Hagen Ranch Rd	Jog Rd	2	2		5,343	6,827	7,559	6,670	9,901	10,100
5654	937151	FLAVOR PICT RD	Jog Rd	Military Tr	2	2	5,725	6,947	6,768	8,472	6,670	9,901	10,000
3840	938530	FLORIDA AVE / ROSEMARY	Banyan Blvd	Lakeview Ave	2	2	5,119		5,200	5,400	12,929	14,038	6,300
	937554	FLORIDA MANGO RD	Belvedere Rd	Old Okeechobee Rd	2	2					3,657	4,256	4,300
4212	937028	FLORIDA MANGO RD	10th Ave N	Forest Hill Blvd	2	3	14,340	10,014	10,995	11,389	9,089	9,548	11,600
3646	937027	FLORIDA MANGO RD	Forest Hill Blvd	Summit Blvd	2	3	8,650	6,565	6,289	6,876	4,051	6,294	8,500
3438	937326	FOLSOM RD	Crestwood Blvd	Okeechobee Bl	2	2	4,989	4,492	4,684	5,000	1,509	1,828	5,000
	937545	FORDHAM DR	N Dixie Hwy	Federal Hwy	2	2			-	-	2,310	2,519	2,500
3402	938524	FOREST HILL BLVD	Southern Blvd	Wellington Trace	6	6	39,091	34,180	35,877	39,500	21,164	30,642	45,400
3430	937087	FOREST HILL BLVD	Wellington Trc	South Shore Blvd	4	4	36,110	28,360	28,571	32,000	23,424	32,205	39,300
3407	937086	FOREST HILL BLVD	South Shore Blvd	SR-7	6	6	57,143	45,720	47,835	50,083	61,989	66,987	52,800

APPENDIX B

PART 2: LINK ANALYSIS

PROPOSED DEVELOPMENT - FOR TRAFFIC CONCURRENCY

TABLE 9 - Daily Traffic Generation

	ITE				Dir	Split		Inte	ernalization		Pass-	by	
Landuse	Code	-	ntensity	Rate/Equation	In	Out	Gross Trips	%	Total	External Trips	%	Trips	Net Trips
Single Family Detached	210	27	Dwelling Units	10			270		0	270	0%	0	270
•			Grand Totals:				270	0.0%	0	270	0%	0	270

TABLE 10 - AM Peak Hour Traffic Generation

	ITE				Dir	Split	Gr	oss T	rips	Inte	ernalia	zation		Ext	ernal '	Trips	Pass	-by	1	let Tri	ps
Landuse	Code		Intensity	Rate/Equation	In	Out	In	Out	Total	%	In	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Single Family Detached	210	27	Dwelling Units	0.7	0.26	0.74	5	14	19	0.0%	0	0	0	5	14	19	0%	0	5	14	19
	•		Grand Totals:				5	14	19	0.0%	0	0	0	5	14	19	0%	0	5	14	19

TABLE 11 - PM Peak Hour Traffic Generation

ITE				Dir Split				Gr	oss T	rips	Inte	ernaliz	zation		Ext	ernal	Trips	Pass-	-by	1	let Tri	ps
Landuse	Code	I	ntensity	Rate/Equation	In	Out	In	Out	Total	%	ln	Out	Total	In	Out	Total	%	Trips	In	Out	Total	
Single Family Detached	210	27	Dwelling Units	0.94	0.63	0.37	16	9	25	0.0%	0	0	0	16	9	25	0%	0	16	9	25	
_			Grand Totals:				16	9	25	0.0%	0	0	0	16	9	25	0%	0	16	9	25	

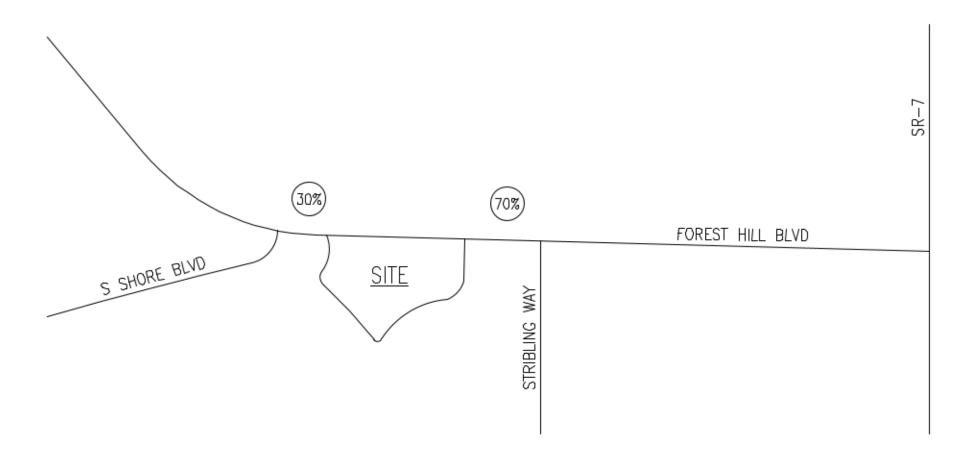
Based on the ITE Trip Generation Manual (11th edition).





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<u>FIGURE 1</u> <u>PROJECT DISTRIBUTION</u>

LEGEND

PROJECT DISTRIBUTION

FARRELL WELLINGTON - ESTATES WEST

21-196 AL 06/17/22



N.T.S.

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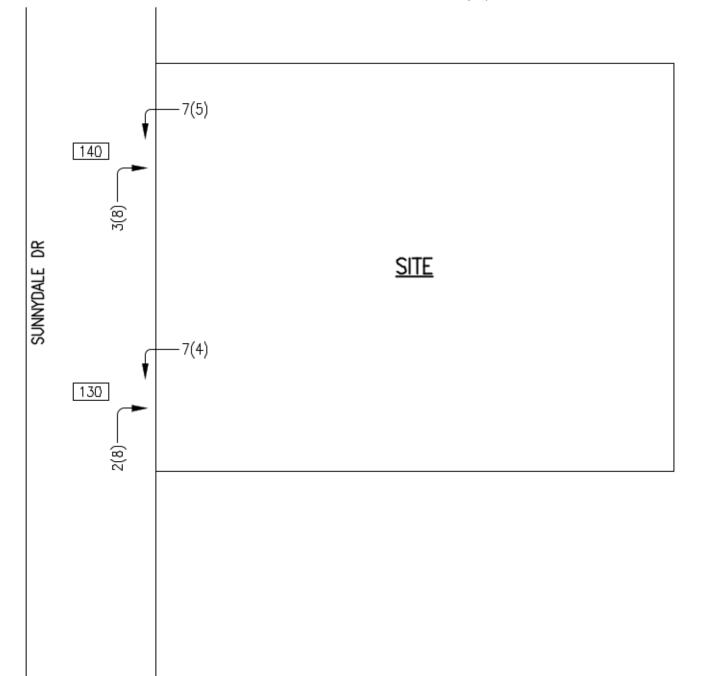


FIGURE 2 PROJECT TURNING MOVEMENTS

LEGEND

- A.M. PEAK HOUR TURNING MOVEMENT
- (9)P.M. PEAK HOUR TURNING MOVEMENT

133 A.A.D.T.

FARRELL WELLINGTON - ESTATES WEST

21-196 AL 06/17/22 REVISED 10/11/22

TABLE 12 PART TWO - PROJECT LINK SIGNIFICANCE CALCULATION AM PEAK HOUR

2026 BUILD OUT

TOTAL AM PEAK HOUR PROJECT TRIPS (ENTERING) = 5 TOTAL AM PEAK HOUR PROJECT TRIPS (EXITING) = 14

AM PEAK HOUR										
					IRECTIONAL				TOTAL	
				PROJECT	PROJECT	EXISTING		LOS D	PROJECT	PROJECT
STATION	ROADWAY	FROM	то	DISTRIBUTION	TRIPS	LANES	CLASS	STANDARD	IMPACT	SIGNIFICANT
3407	FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD	SITE	30%	4	6D	1	3020	0.13%	NO
3407	FOREST HILL BOULEVARD	SITE	SR 7	70%	10	6D	1	3020	0.33%	NO



FARRELL WELLINGTON - ESTATES WEST

TABLE 13 PART TWO - PROJECT LINK SIGNIFICANCE CALCULATION PM PEAK HOUR

2026 BUILD OUT

TOTAL PM PEAK HOUR PROJECT TRIPS (ENTERING) = 16

TOTAL PM PEAK HOUR PROJECT TRIPS (EXITING) = 9

PM PEAK HOUR										
	DIRECTIONAL								TOTAL	
				PROJECT	PROJECT	EXISTING		LOS D	PROJECT	PROJECT
STATION	ROADWAY	FROM	TO TO	DISTRIBUTION	TRIPS	LANES	CLASS	STANDARD	IMPACT	SIGNIFICANT
3407 3407	FOREST HILL BOULEVARD FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD SITE	SITE SR 7	30% 70%	5 11	6D 6D	1	3020 3020	0.17% 0.36%	NO NO



TABLE 14 AM PEAK HOUR - PART TWO

2026 BUILD OUT TOTAL AM PEAK HOUR PROJECT TRIPS (ENTERING) = TOTAL AM PEAK HOUR PROJECT TRIPS (EXTING):

TOTAL AM PEAK HOUR PROJ	ECI IKIPS (EXITING):	14																		
							AM PEAK				FARRELL		TOTAL	2026					2026 WITHOUT	
				TRAFFIC	AM PEAK		HOUR	LINK			WELLINGTON		BACKGROUNI	TRAFFIC	2026				PROJECT	MEETS
				COUNT	HOUR	PROJECT	PROJECT	GROWTH	LINK	MAJOR	ESTATES	1.0%	TRAFFIC	WITHOUT	TOTAL	ASSURED			MEETS	LOS
ROADWAY	FROM	TO	DIRECTION	YEAR	TRAFFIC	DISTRIBUTION	TRIPS	RATE	GROWTH	PROJECT	EAST	GROWTH	USED	PROJECT	TRAFFIC	LANES	CLASS	LOS D	LOS STD.	STD.
FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD	SITE	EB	2022	2546	30%	2	1.00%	103	215	1	103	319	2865	2867	6D	1	3020	YES	YES
FOREST FILE BOOLEVAND	SOUTH SHORE BOOLEVARD	SIL	WB	2022	1622	30%	4	1.00%	66	161	2	66	229	1851	1855	6D	1	3020	YES	YES
FOREST HILL BOULEVARD	SITE	SR 7	EB WB	2022 2022	2546 1622	70% 70%	10 4	1.00%	103 66	215 193	5 2	103 66	323 261	2869 1883	2879 1887	6D 6D	!	3020 3020	YES	YES



TABLE 15 PM PEAK HOUR - PART TWO

2026 BUILD OUT TOTAL PM PEAK HOUR PROJECT TRIPS (ENTERING) = TOTAL PM PEAK HOUR PROJECT TRIPS (EXITING) :

TOTAL PW PEAK HOUR PROJ	ECT TRIPS (EXITING):	7																		
							PM PEAK				FARRELL		TOTAL	2026					2026 WITHOUT	
				TRAFFIC	PM PEAK		HOUR	LINK			WELLINGTON		BACKGROUNI	TRAFFIC	2026				PROJECT	MEETS
				COUNT	HOUR	PROJECT	PROJECT	GROWTH	LINK	MAJOR	ESTATES	1.0%	TRAFFIC	WITHOUT	TOTAL .	ASSURED			MEETS	LOS
ROADWAY	FROM	то	DIRECTION	YEAR	TRAFFIC	DISTRIBUTION	TRIPS	RATE	GROWTH	PROJECT	EAST	GROWTH	USED	PROJECT	TRAFFIC	LANES	CLASS	LOS D	LOS STD.	STD.
FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD	OUTE	EB	2022	2330	30%	5	1.00%	95	194	2	95	291	2621	2626	6D	1	3020	YES	YES
FUREST HILL BOULEVARD	SOUTH SHORE BOOLEVARD	SITE	WB	2022	2202	30%	3	1.00%	89	211	2	89	302	2504	2507	6D	1	3020	YES	YES
FOREST HILL BOULEVARD	SITE	SR 7	EB	2022	2330	70%	6	1.00%	95	246	4	95	345	2675	2681	6D	!	3020	YES	YES
			WB	2022	2202	70%	11	1.00%	89	227	6	89	322	2524	2535	6D	1	3020	YES	YES



Exhibit 3A Wellington Speed and Count Study Traffic Volume and Growth - Weekday

						Daily Traff	ic Volumes	2022 AM P	eak Hour ²	2022 PM P	eak Hour ²
Loc #	Road	From	То	Lanes	2018 1	2022 2	4-Yr Growth Rate	NB/EB	SB/WB	NB/EB	SB/WB
1	Flying Cow Ranch Road	Southern Boulevard	1 Mile South	2L	1,708	1,782	1.07% /Year	51	84	83	87
2	Flying Cow Ranch Road	1 Mile South	Rustic Road	2L	N/A	1,784	/Year	50	84	77	75
3	Binks Forest Drive	Southern Boulevard	Greenview Shores Boulevard	4LD	13,181	13,373	0.36% /Year	749	575	589	600
4	Aero Club Drive	Binks Forest Drive	Greenbriar Boulevard	2L	5,817	4,098	-8.38% /Year	115	213	194	150
5	Greenbriar Boulevard	Aero Club Drive	Greenview Shores Boulevard	2L	6,301	2,999	-16.94% /Year	192	167	216	168
6	Greenview Shores Boulevard	Binks Forest Drive	Wellington Trace	4LD	13,212	13,082	-0.25% /Year	484	430	651	608
7	Greenview Shores Boulevard	Wellington Trace	South Shore Boulevard	4LD	19,343	16,708	-3.59% /Year	641	824	722	731
8	Wellington Trace	Greenview Shores Boulevard	Big Blue Trace	4LD	24,104	23,493	-0.64% /Year	875	788	963	996
9	Wellington Trace	Big Blue Trace	Forest Hill Boulevard (North)	4LD	21,732	22,600	0.98% /Year	963	783	885	1,027
10	Wellington Trace	Forest Hill Boulevard (North)	Forest Hill Boulevard (South)	2L	6,033	5,900	-0.56% /Year	343	224	306	271
11	Paddock Drive	Greenview Shores Boulevard	Big Blue Trace	2L	2,438	2,667	2.27% /Year	120	110	187	131
12	Big Blue Trace	Southern Boulevard	Wellington Trace	2L/4L	11,465	8,443	-7.36% /Year	436	390	336	394
13	Big Blue Trace	Wellington Trace	South Shore Boulevard	2L	11,760	11,565	-0.42% /Year	271	506	481	480
14	Forest Hill Boulevard	Southern Boulevard	Wellington Trace	6LD	39,502	47,545	4.74% /Year	1,441	2,368	1,768	2,220
15	Forest Hill Boulevard ³	Wellington Trace	South Shore Boulevard	4LD/6LD	30,258	28,664	-1.34% /Year	930	1,215	1,248	1,275
16	Forest Hill Boulevard	South Shore Boulevard	SR 7	6LD	49,836	53,987	2.02% /Year	2,546	1,622	2,330	2,202
17	Birkdale Drive	Forest Hill Boulevard	Wellington Trace	2L	4,229	3,303	-5.99% /Year	113	211	239	98
18	Stribling Way	Forest Hill Boulevard	Pierson Road	2L	13,259	13,303	0.08% /Year	265	799	610	651
19	Stribling Way	Pierson Road	SR 7	2L	16,078	14,618	-2.35% /Year	737	443	743	670
20	Stribling Way	SR 7	Lyons Road	2L	5,613	6,315	2.99% /Year	467	437	408	250
21	South Shore Boulevard ³	Forest Hill Boulevard	Greenview Shores Boulevard	4LD	26,302	14,057	-14.50% /Year	639	716	627	501
22	South Shore Boulevard	Greenview Shores Boulevard	Pierson Road	4LD	23,417	19,837	-4.06% /Year	528	875	986	688
23	South Shore Boulevard	Pierson Road	Lake Worth Road	2LD	18,764	16,444	-3.25% /Year	486	733	816	598
24	40th Street South	Palm Beach Point Boulevard	Lake Worth Road	2L	N/A	2,187	/Year	39	94	131	78
25	Lake Worth Road	South Shore Boulevard	120th Avenue South	2L	12,936	11,164	-3.62% /Year	469	398	457	557
26	Pierson Road	South Shore Boulevard	Stribling Way	2L	4,743	4,238	-2.78% /Year	132	141	209	214
27	Pierson Road	Ousley Farms Road	South Shore Boulevard	2L	10,154	4,796	-17.10% /Year	166	245	214	165
28	South Shore Boulevard	Lake Worth Road	50th Street South	2L	5,202	4,600	-3.03% /Year	106	230	242	138
29	120th Avenue South	Pierson Road	Lake Worth Road	2L	1,056	4,001	39.52% /Year	149	114	274	168
30	120th Avenue South	Lake Worth Road	50th Street South	2L	3,461	1,800	-15.08% /Year	53	75	75	79
31	50th Street South	130th Avenue South	120th Avenue South	2L	3,523	4,029	3.41% /Year	146	159	199	146
32	Little Ranches Trail	Southern Boulevard	Acme Road	2L	2,381	2,304	-0.82% /Year	92	76	88	87

¹ Source: Wellington Traffic Counts and Analysis, April 11, 2018.

² See Appendix A for count data.

³ Locations 15 and 21 were recounted in June and adjusted based on peak factors from control Location #9. See Appendix A. Use with caution.

APPENDIX C

PBC TPS DATABASE LINK & INTERSECTION VOLUME SHEETS (WITH APPROVED COMMITTED TRIPS)

A B C D E F G H I

Input Data

ROAD NAME: Forest Hill Blvd STATION: 3407 Report Created CURRENT YEAR: 2020 FROM: South Shore Blvd 06/17/2022

ANALYSIS YEAR: 2026 TO: MIDPOINT GROWTH RATE: -0.17% COUNT DATE: 03/03/2020

PSF: 1

Link Analysis

Time Period		AM			PM	
Direction	2-way	NB/EB	SB/WB	2-way	NB/EB	SB/WB
Existing Volume	3379	1946	1479	3998	1773	2254
Peak Volume	3379	1946	1479	3998	1773	2254
Diversion(%)	0	0	0	0	0	0
Volume after Diversion	3379	1946	1479	3998	1773	2254

volume after Diversion	33/9	1946	14/9	3998	1//3	2254	ı	
Committed Developments							Type	% Complete
Raising Canes	3	2	1	3	1	1	NR	75%
Palms West Medical	3	1	2	3	2	1	NR	92%
Groves at Royal Palm	0	0	0	0	0	0	NR	100%
Castellina	0	0	0	0	0	0	Res	100%
Oakmont Estates	0	0	0	0	0	0	Res	100%
Palms West Hospital	2	1	1	2	1	1	NR	95%
Western Plaza	17	9	8	47	23	24	NR	75%
Isla Verde	0	0	0	0	0	0	NR	100%
Southern Palm Crossing	3	2	1	7	4	4	NR	70%
Ching SR 7	0	0	0	0	0	0	NR	100%
Buena Vida	0	0	0	0	0	0	Res	100%
Olympia	0	0	0	0	0	0	Res	100%
Lotis of Wellington	53	29	24	106	55	52	NR	0%
Royal Palm Retail	0	0	0	0	0	0	NR	100%
Wellington Mall	12	6	6	45	23	21	NR	90%
Wellington Regional Medical Center	49	35	15	58	19	39	NR	80%
Southern Center	1	0	0	3	1	2	NR	90%
Wellington View	0	0	0	0	0	0	Res	100%
Pioneer Road Commercial / Residential	4	1	2	28	14	14	NR	50%
Village Green	11	7	5	28	13	15	NR	65%
278 ProffessionalWay	1	0	1	2	1	1	NR	65%
Enclave at Royal Palm Beach	0	0	0	0	0	0	Res	100%
Wellington Charter School	49	27	22	13	6	7	NR	65%
Alzheimers Community Care	6	3	3	7	3	4	NR	46%
Wellington Plaza	1	0	1	4	2	1	NR	97%
Flying Cow Ranch	0	0	0	0	0	0	Res	0%
Islepointe	0	0	0	0	0	0	Res	0%
Village Royale Charter School	182	111	71	38	17	22	Res	0%
Lotis II	20	4	16	26	17	9	Res	0%
Total Committed Developments	417	238	179	420	202	218		
Total Committed Residential	202	115	87	64	34	31		
Total Committed Non-Residential	215	123	92	356	168	187		
Double Count Reduction	43	25	18	16	9	8		
Total Discounted Committed								
Developments	374	213	161	404	193	210		
Historical Growth	-35	-20	-15	-41	-18	-23		
Comm Dev+1% Growth	582	333	252	650	302	349		
Growth Volume Used	582	333	252	650	302	349		
Total Volume	3961	2279	1731	4648	2075	2603		

Lanes LOS D Capacity Link Meets Test 1? LOS E Capacity Link Meets Test 2?

6LD													
4880	2680	2680	4880	2680	2680								
YES	YES	YES	YES	YES	YES								
5150	2830	2830	5150	2830	2830								
YES	YES	YES	YES	YES	YES								

Input Data

ROAD NAME: Forest Hill Blvd STATION: 3407 Report Created CURRENT YEAR: 2020 FROM: MIDPOINT 06/17/2022 ANALYSIS YEAR: 2026 TO: Stribling Way

GROWTH RATE: -0.17% COUNT DATE: 03/03/2020

PSF: 1

Link Analysis

Time Period		AM			PM	
Direction	2-way	NB/EB	SB/WB	2-way	NB/EB	SB/WB
Existing Volume	3379	1946	1479	3998	1773	2254
Peak Volume	3379	1946	1479	3998	1773	2254
Diversion(%)	0	0	0	0	0	0
Volume after Diversion	3379	1946	1479	3998	1773	2254

Teleffic discretization	00.0	2010	2112	0000	2110		ı	
5 The 15 1							_	
Committed Developments	_	_		_				% Complete
Raising Canes	3	2	1	3	1	1	NR	75%
Palms West Medical	3	1	2	3	2	1	NR	92%
Groves at Royal Palm	0	0	0	0	0	0	NR	100%
Castellina	0	0	0	0	0	0	Res	100%
Oakmont Estates	0	0	0	0	0	0	Res	100%
Palms West Hospital	2	1	1	2	1	1	NR	95%
Western Plaza	17	9	8	47	23	24	NR	75%
Isla Verde	0	0	0	0	0	0	NR	100%
Southern Palm Crossing	3	2	1	7	4	4	NR	70%
Ching SR 7	0	0	0	0	0	0	NR	100%
Buena Vida	0	0	0	0	0	0	Res	100%
Olympia	0	0	0	0	0	0	Res	100%
Lotis of Wellington	53	29	24	106	55	52	NR	0%
Royal Palm Retail	0	0	0	0	0	0	NR	100%
Wellington Mall	12	6	6	45	23	21	NR	90%
Wellington Regional Medical Center	49	35	15	58	19	39	NR	80%
Southern Center	1	0	0	3	1	2	NR	90%
Wellington View	0	0	0	0	0	0	Res	100%
Pioneer Road Commercial / Residential	4	1	2	28	14	14	NR	50%
Village Green	11	7	5	28	13	15	NR	65%
278 ProffessionalWay	1	0	1	2	1	1	NR	65%
Enclave at Royal Palm Beach	0	0	0	0	0	0	Res	100%
Wellington Charter School	49	27	22	13	6	7	NR	65%
Alzheimers Community Care	9	5	4	9	4	5	NR	46%
Wellington Plaza	1	0	1	4	2	1	NR	97%
Flying Cow Ranch	0	0	0	0	0	0	Res	0%
Islepointe	0	0	0	0	0	0	Res	0%
Village Royale Charter School	182	111	71	38	17	22	Res	0%
Lotis II	20	4	16	26	17	9	Res	0%
Total Committed Developments	420	240	180	422	203	219		
Total Committed Residential	202	115	87	64	34	31		
Total Committed Non-Residential	218	125	93	358	169	188		
Double Count Reduction	44	25	19	16	9	8		
Total Discounted Committed								
Developments	376	215	161	406	194	211		
•								
Historical Growth	-35	-20	-15	-41	-18	-23		
Comm Dev+1% Growth	584	335	252	652	303	350		
Growth Volume Used	584	335	252	652	303	350		

Lanes LOS D Capacity Link Meets Test 1? LOS E Capacity Link Meets Test 2?

Total Volume

		6L	D		
4880	2680	2680	4880	2680	2680
YES	YES	YES	YES	YES	YES
5150	2830	2830	5150	2830	2830
YES	YES	YES	YES	YES	YES

3963 2281 1731 4650 2076 2604

A BCDEFGHI

Input Data

ROAD NAME: Forest Hill Blvd CURRENT YEAR: 2020 ANALYSIS YEAR: 2026 STATION: 3407 FROM: Stribling Way TO: MIDPOINT COUNT DATE: 03/03/2020 Report Created 06/17/2022

GROWTH RATE: -0.17% COUNT DATE: 03 PSF: 1

Link Analysis

Time Period Direction Existing Volume Peak Volume Diversion(%) Volume after Diversion

	AM			PM	
2-way	NB/EB	SB/WB	2-way	NB/EB	SB/WB
3379	1946	1479	3998	1773	2254
3379	1946	1479	3998	1773	2254
0	0	0	0	0	0
3379	1946	1479	3998	1773	2254

Committed Developments							Tyne	% Complete
Raising Canes	3	2	1	3	1	1	NR	75%
Palms West Medical	3	1	2	3	2	1	NR	92%
Groves at Royal Palm	0	ô	0	0	0	Ô	NR	100%
Castellina	0	0	0	0	0	0	Res	100%
Oakmont Estates	0	0	0	0	0	0	Res	100%
Palms West Hospital	2	1	1	2	1	1	NR	95%
Western Plaza	17	9	8	47	23	24	NR	75%
Isla Verde	0	0	0	0	0	0	NR	100%
Palomino Exec Park	0	0	0	0	0	0	NR	100%
	3	2	1	7	4	4		70%
Southern Palm Crossing	0	0	0	0	0	0	NR NR	100%
Ching SR 7		_	_	_	_			
Buena Vida	0	0	0	0	0	0	Res	100%
Olympia	0	0	0	0	0	0	Res	100%
Lotis of Wellington	53	29	24	106	55	52	NR	0%
Royal Palm Retail	0	0	0	0	0	0	NR	100%
Wellington Mall	12	6	6	45	23	21	NR	90%
Wellington Regional Medical Center	54	16	38	63	43	21	NR	80%
Southern Center	1	0	0	3	1	2	NR	90%
Wellington View	0	0	0	0	0	0	Res	100%
Wellington Parc	7	4	3	7	3	4	NR	50%
Pioneer Road Commercial / Residential	5	2	4	41	20	20	NR	50%
Village Green	2	1	1	5	3	2	NR	65%
278 ProffessionalWay	1	0	1	2	1	1	NR	65%
Enclave at Royal Palm Beach	0	0	0	0	0	0	Res	100%
Cheddars Cafe	5	3	2	6	2	3	NR	75%
Wellington Charter School	45	25	20	12	6	7	NR	65%
Wellington Tennis Facility	0	0	0	0	0	0	Res	100%
Alzheimers Community Care	8	4	4	8	4	4	NR	46%
Anthony Groves Plaza-Lot 1	7	4	3	15	8	8	NR	60%
Flying Cow Ranch	0	0	0	0	0	0	Res	0%
Islepointe	0	0	0	0	0	0	Res	0%
Village Royale Charter School	182	111	71	38	17	22	Res	0%
Lotis II	22	5	17	28	18	10	Res	0%
Total Committed Developments	432	225	207	441	235	208		
Total Committed Residential	204	116	88	66	35	32		
Total Committed Non-Residential	228	109	119	375	200	176		
Double Count Reduction	46	22	22	17	9	8		
Total Discounted Committed								
Developments	386	203	185	424	226	200		
Historical Growth	-35	-20	-15	-41	-18	-23		
Comm Dev+1% Growth	594	323	276	670	335	339		
Growth Volume Used	594	323	276	670	335	339		
Total Volume	3973	2269	1755	4668	2108	2593		

Los D Capacity Link Meets Test 1? LOS E Capacity Link Meets Test 2?

		6L	D		
4880	2680	2680	4880	2680	2680
YES	YES	YES	YES	YES	YES
5150	2830	2830	5150	2830	2830
YES	YES	YES	YES	YES	YES

Input Data

ROAD NAME: Forest Hill Blvd

CURRENT YEAR: 2020 ANALYSIS YEAR: 2026 STATION: 3407 FROM: MIDPOINT TO: S State Road 7 Report Created 06/17/2022

GROWTH RATE: -0.17%

COUNT DATE: 03/03/2020 PSF: 1

Link Analysis

Time Period		AM			PM	
Direction	2-way	NB/EB	SB/WB	2-way	NB/EB	SB/WE
Existing Volume	3379	1946	1479	3998	1773	2254
Peak Volume	3379	1946	1479	3998	1773	2254
Diversion(%)	0	0	0	0	0	0
Volume after Diversion	3379	1946	1479	3998	1773	2254

Committed Developments							Tyne %	Complete	
Raising Canes	3	2	1	3	1	1	NR.	75%	
Palms West Medical	3	1	2	3	2	1	NR	92%	
Groves at Royal Palm	0	Ô	0	0	0	Ô	NR	100%	
Palms West Hospital	2	1	1	2	1	1	NR	95%	
Western Plaza	17	9	8	47	23	24	NR	75%	
Isla Verde	0	0	0	0	0	0	NR	100%	
Palomino Exec Park	0	0	0	0	0	0	NR	100%	
Southern Palm Crossing	3	2	1	7	4	4	NR	70%	
Ching SR 7	0	0	Ô	ó	0	0	NR	100%	
Buena Vida	0	0	0	0	0	0	Res	100%	
Olympia	0	0	0	0	0	0	Res	100%	
Lotis of Wellington	53	29	24	106	55	52	NR	0%	
Royal Palm Retail	0	0	0	0	0	0	NR	100%	
Wellington Mall	25	12	14	94	45	49	NR	90%	
Wellington Regional Medical Center	56	17	39	66	44	22	NR	80%	
Southern Center	1	0	0	3	1	2	NR	90%	
Wellington View	0	0	0	0	0	0	Res	100%	
Wellington Parc	7	4	3	7	3	4	NR	50%	
Pioneer Road Commercial / Residential	5	2	4	41	20	20	NR	50%	
278 ProffessionalWay	1	0	1	2	1	1	NR	65%	
Enclave at Royal Palm Beach	ō	0	ô	0	0	Ô	Res	100%	
Cheddars Cafe	5	3	2	6	2	3	NR	75%	
Wellington Charter School	45	25	20	12	6	7	NR	65%	
Wellington Tennis Facility	0	0	0	0	0	ó	Res	100%	
Alzheimers Community Care	8	4	4	8	4	4	NR	46%	
Anthony Groves Plaza-Lot 1	7	4	3	15	8	8	NR	60%	
Flying Cow Ranch	ó	0	ő	0	0	0	Res	0%	
Islepointe	0	0	0	0	ō	0	Res	0%	
Village Royale Charter School	182	111	71	38	17	22	Res	0%	
Lotis II	22	5	17	28	18	10	Res	0%	
Total Committed Developments	445	231	215	488	255	235	nes	070	
Total Committed Residential	204	116	88	66	35	32			
Total Committed Non-Residential	241	115	127	422	220	203			
Double Count Reduction	48	23	22	17	9	8			
Total Discounted Committed	-10	2.5			-				
Developments	397	208	193	471	246	227			
		200		77.2					

Developments	397	208	193	471	246	227
Historical Growth	-35	-20	-15	-41	-18	-23
Comm Dev+1% Growth	605	328	284	717	355	366
Growth Volume Used	605	328	284	717	355	366
Total Volume	3984	2274	1763	4715	2128	2620

Lanes			6L	D		
LOS D Capacity	4880	2680	2680	4880	2680	2680
Link Meets Test 1?	YES	YES	YES	YES	YES	YES
LOS E Capacity	5150	2830	2830	5150	2830	2830
Link Meets Test 2?	YES	YES	YES	YES	YES	YES

TABLE 6 AM PEAK HOUR - PART TWO

2026 BUILD OUT TOTAL AM PEAK HOUR PROJECT TRIPS (ENTERING) = TOTAL AM PEAK HOUR PROJECT TRIPS (EXITING) :

TOTAL AMIT LAK HOURT HOU	cor naro (carmo).																			
							AM PEAK				FARRELL		TOTAL	2026					2026 WITHOUT	
				TRAFFIC	AM PEAK		HOUR	LINK			WELLINGTON		BACKGROUNI	TRAFFIC	2026				PROJECT	MEETS
				COUNT	HOUR	PROJECT	PROJECT	GROWTH	LINK	MAJOR	ESTATES	1.0%	TRAFFIC	WITHOUT	TOTAL /	ASSURED			MEETS	LOS
ROADWAY	FROM	то	DIRECTION	YEAR	TRAFFIC	DISTRIBUTION	TRIPS	RATE	GROWTH	PROJECT	WEST	GROWTH	USED	PROJECT	TRAFFIC	LANES	CLASS	LOS D	LOS STD.	STD.
			EB	2022	2546	30%	1	1.00%	103	215	2	103	320	2866	2867	6D	_	3020	YES	YES
FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD	SITE	WB	2022	1622	30%	2	1.00%	66	161	4	66	231	1853	1855	6D	i	3020	YES	YES
FOREST HILL BOULEVARD	SITE	SR 7	EB	2022	2546	70%	5	1.00%	103	215	10	103	328	2874	2879	6D	1	3020	YES	YES
FOREST HILL BOOLEVARD	SITE	an /	WB	2022	1622	70%	2	1.00%	66	193	4	66	263	1885	1887	6D	1	3020	YES	YES



TABLE 7 PM PEAK HOUR - PART TWO

2026 BUILD OUT TOTAL PM PEAK HOUR PROJECT TRIPS (ENTERING) = TOTAL PM PEAK HOUR PROJECT TRIPS (EXITING) :

TOTAL THE LARTHOUS TROOP							PM PEAK				FARRELL		TOTAL	2026					2026 WITHOUT	
				TRAFFIC	PM PEAK		HOUR	LINK			WELLINGTON		BACKGROUNI	TRAFFIC	2026				PROJECT	MEETS
				COUNT	HOUR	PROJECT	PROJECT	GROWTH	LINK	MAJOR	ESTATES	1.0%	TRAFFIC	WITHOUT	TOTAL /	ASSURED			MEETS	LOS
ROADWAY	FROM	то	DIRECTION	YEAR	TRAFFIC	DISTRIBUTION	TRIPS	RATE	GROWTH	PROJECT	WEST	GROWTH	USED	PROJECT	TRAFFIC	LANES	CLASS	LOS D	LOS STD.	STD.
FOREST HILL BOULEVARD	SOUTH SHORE BOULEVARD	SITE	EB	2022	2330	30%	2	1.00%	95	194	5	95	294	2624	2626	6D	1	3020	YES	YES
TOTAL DESIGNATION OF THE PROPERTY OF THE PROPE	SOUTH STORE SOURCE		WB	2022	2202	30%	2	1.00%	89	211	3	89	303	2505	2507	6D	!	3020	YES	YES
FOREST HILL BOULEVARD	SITE	SR 7	WB	2022 2022	2330 2202	70%	6	1.00%	95 89	246 227	11	89	347	2677 2529	2681 2535	6D 6D		3020 3020	YES YES	YES



APPENDIX D

INTERSECTION ANALYSIS

CMA INTERSECTION ANALYSIS

FARRELL WELLINGTON - ESTATES WEST FOREST HILL BOULEVARD AT ROYAL FERN DRIVE/POLO CLUB ROAD

INPUT DATA

Comments: Background traffic, without project, existing geometry

Growth Rate = 1.00% Peak Season = 1.03 Current Year = 2022 Buildout Year = 2026

			ē	M Pea	k Hour								ı
		INTER	SECTIO	N VOLU	ME DE	/ELOPN	IENT						ı
l I	N	orthbour	nd	S	outhbou	nd	E	astbour	nd	V	Vestbour	nd	ı
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	L
Existing Volume (2022)	33	2	60	355	5	193	140	2118	26	197	1329	216	ı
Peak Season Adjustment	1	0	2	11	0	6	4	64	1	6	40	6	ı
Background Traffic Growth	1	0	3	15	0	8	6	89	1	8	56	9	1
1.0% Background Growth	1	0	3	15	0	8	6	89	1	8	56	9	5
Major Projects Traffic*	0	0	0	0	0	0	0	215	0	0	161	0	L
Farrell East Traffic	2	0	5	0	0	0	0	0	1	2	0	0	ı
1% BGR + Major Projects	3	0	8	15	0	8	6	304	2	10	217	9	L
Project Traffic	0	0	0	0	0	0	0	0	0	0	0	0	L
Total	37	2	69	380	5	207	150	2485	29	213	1585	232	ı
Approach Total		109			593			2,664			2,030		ı
		-	CRITICA	L VOLU	ME ANA	ALYSIS							ı
No. of Lanes	1	1	<	2	1	<	1	3	<	1	3	1	ı
Per Lane Volume	37	7	1	190	2	12	150	8	38	213	528	232	ı
Right on Red			10			10			10			0	ı
Overlaps Left			213			150			37			190	ı
Adj. Per Lane Volume	37	6	31	190	2	02	150	8	28	213	528	41	ı
Through/Right Volume		61			202			828			528		ı
Opposing Left Turns		190			37			213			150		ı
Critical Volume for Approach		252			240			1041			679		ı
Critical Volume for Direction			2	52					10	41			ı
Intersection Critical Volume							293						ı
STATUS?						NE	AR						ı

			F	M Pea	k Hour							
		INTER	_			VELOPN	IENT					
	N	lorthbour	nd	S	outhbou	nd	E	astboun	d	V	Vestbour	nd
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volume (2022)	33	2	95	170	2	65	58	1878	39	107	2023	60
Peak Season Adjustment	1	0	3	5	0	2	2	56	1	3	61	2
Background Traffic Growth	1	0	4	7	0	3	2	79	2	4	85	3
1.0% Background Growth	1	0	4	7	0	3	2	79	2	4	85	3
Major Projects Traffic*	0	0	0	0	0	0	0	194	0	0	211	0
Farrell East Traffic	2	0	4	0	0	0	0	0	2	6	0	0
1% BGR + Major Projects	3	0	8	7	0	3	2	273	4	10	296	3
Project Traffic	0	0	0	0	0	0	0	0	0	0	0	0
Total	37	2	106	182	2	70	62	2207	44	121	2379	64
Approach Total		145			254			2,313			2,564	
		(CRITICA	L VOLU	ME ANA	ALYSIS						
No. of Lanes	1	1	<	2	1	<	1	3	<	1	3	1
Per Lane Volume	37	1	08	91	7	2	62	75	50	121	793	64
Right on Red			10			10			10			60
Overlaps Left			121			62			37			91
Adj. Per Lane Volume	37	9	8	91	6	2	62	74	40	121	793	0
Through/Right Volume		98			62			740			793	
Opposing Left Turns		91			37			121			62	
Critical Volume for Approach		189			99			861			855	
Critical Volume for Direction			11	89					8	61		
Intersection Critical Volume						1,0	050					
STATUS?						UNI	DER					

^{*} Major projects traffic based on the TPS link report for Forest Hill Boulevard between South Shore Boulevard and Stribling Way (Station 3407).

TRIPS

IN OUT

AM 5 14

PM 16 9

10/11/22 REVISED 11/11/22

		0	0	0					
		0	0	0					
					•				
		0%	0%	0%		0%		0	0
					ŧ	0%		0	0
						0%		0	0
		4	-	9	4				
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0	0		0%	\equiv	ד				
					0%	0%	0%	l	
0	0		0%	F	0%	0%	0%		
0	0		0%	I	0%	0%	0%		
0	0		0%						
0	0		0%		0	0	0		
0	0		0%		0	0	0		

CMA INTERSECTION ANALYSIS

FARRELL WELLINGTON - ESTATES WEST FOREST HILL BOULEVARD AT ROYAL FERN DRIVE/POLO CLUB ROAD

INPUT DATA

Comments: Future traffic (WITH project), existing geometry

Growth Rate = 1.00% Peak Season = 1.03 Current Year = 2022 Buildout Year = 202

			A	M Pea	k Hour								1
		INTER	SECTIO	N VOLU	ME DEV	/ELOPN	IENT						ı
	N	orthbour	nd .	S	outhbou	nd	E	astbour	id	V	Vestbour	nd	
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Existing Volume (2022)	33	2	60	355	5	193	140	2118	26	197	1329	216	ı
Peak Season Adjustment	1	0	2	11	0	6	4	64	1	6	40	6	ı
Background Traffic Growth	1	0	3	15	0	8	6	89	1	8	56	9	19
1.0% Background Growth	1	0	3	15	0	8	6	89	1	8	56	9	58
Major Projects Traffic*	0	0	0	0	0	0	0	215	0	0	161	0	ı
Farrell East Traffic	2	0	5	0	0	0	0	0	1	2	0	0	ı
1% BGR + Major Projects	3	0	8	15	0	8	6	304	2	10	217	9	ı
Project Traffic	4	0	10	0	0	0	0	0	2	4	0	0	ı
Total	41	2	79	380	5	207	150	2485	31	217	1585	232	ı
Approach Total		123			593			2,666			2,034		ı
		(CRITICA	L VOLU	ME ANA	ALYSIS							ı
No. of Lanes	1	1	<	2	1	<	1	3	<	1	3	1	ı
Per Lane Volume	41	8	1	190	2	12	150	8	39	217	528	232	ı
Right on Red			10			10			10			0	ı
Overlaps Left			217			150			41			190	ı
Adj. Per Lane Volume	41	7	1	190	21	02	150	8	29	217	528	41	ı
Through/Right Volume		71			202			829			528		ı
Opposing Left Turns		190			41			217			150		ı
Critical Volume for Approach		262			244			1046			679		ı
Critical Volume for Direction			2	62					10	46			ı
Intersection Critical Volume						1,3	808						ı
STATUS?						NE	AR						ı

			F	M Pea	k Hour							
		INTER	SECTIO	N VOLU	ME DE	/ELOPN	IENT					
	N	lorthbour	nd	S	outhbou	nd	E	astboun	id	V	Vestbour	nd
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Existing Volume (2022)	33	2	95	170	2	65	58	1878	39	107	2023	60
Peak Season Adjustment	1	0	3	5	0	2	2	56	1	3	61	2
Background Traffic Growth	1	0	4	7	0	3	2	79	2	4	85	3
1.0% Background Growth	1	0	4	7	0	3	2	79	2	4	85	3
Major Projects Traffic*	0	0	0	0	0	0	0	194	0	0	211	0
Farrell East Traffic	2	0	4	0	0	0	0	0	2	6	0	0
1% BGR + Major Projects	3	0	8	7	0	3	2	273	4	10	296	3
Project Traffic	3	0	6	0	0	0	0	0	5	11	0	0
Total	40	2	112	182	2	70	62	2207	49	132	2379	64
Approach Total		154			254			2,318			2,575	
		(CRITICA	L VOLU	ME ANA	ALYSIS						
No. of Lanes	1	1	<	2	1	<	1	3	<	1	3	1
Per Lane Volume	40	1	14	91	7	2	62	75	52	132	793	64
Right on Red			10			10			10			60
Overlaps Left			132			62			40			91
Adj. Per Lane Volume	40	1	04	91	6	2	62	74	42	132	793	0
Through/Right Volume		104			62			742			793	
Opposing Left Turns		91			40			132			62	
Critical Volume for Approach												
Critical Volume for Direction			11	95					8	74		
Intersection Critical Volume						1,0	69					
STATUS?						UNI	DER					

^{*} Major projects traffic based on the TPS link report for Forest Hill Boulevard between South Shore Boulevard and Stribling Way (Station 3407).

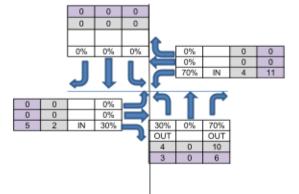
TRIPS

IN OUT

AM 5 14

PM 16 9

10/11/22 REVISED 11/11/22



2021 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 9327 WEST-W OF SR7

CAILG	ORY: 932/ WEST-W OF SR/		MOCF: 0.95
WEEK	DATES	SF	PSCF
12345678901234567890123456789012345678901234567890123 * * * * * * * * * * * * * * * * * * *	04/25/2021 - 05/01/2021 05/02/2021 - 05/08/2021 05/09/2021 - 05/15/2021 05/16/2021 - 05/22/2021 05/23/2021 - 05/29/2021 05/30/2021 - 06/05/2021 06/06/2021 - 06/12/2021 06/13/2021 - 06/19/2021 06/20/2021 - 06/26/2021 06/27/2021 - 07/03/2021 07/04/2021 - 07/10/2021 07/11/2021 - 07/10/2021 07/11/2021 - 07/10/2021 07/18/2021 - 07/24/2021 07/18/2021 - 07/24/2021 07/25/2021 - 07/31/2021 08/01/2021 - 08/07/2021 08/01/2021 - 08/07/2021 08/08/2021 - 08/14/2021 08/29/2021 - 08/28/2021 08/29/2021 - 09/04/2021 09/12/2021 - 09/11/2021 09/12/2021 - 09/18/2021 09/12/2021 - 09/18/2021 09/12/2021 - 09/25/2021 09/26/2021 - 10/02/2021	1.01 1.03 1.02 1.099 0.998 0.995 0.995 0.995 0.995 0.995 0.995 0.997 0.998 0.995 1.002 1.004 1.009 1.0	1.03 1.06 1.08 1.07 1.06 1.04 1.03 1.01 1.00 0.99 0.98 0.997 0.98 0.999 1.00 1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.12 1.13 1.15 1.16 1.16 1.16 1.16 1.16 1.16 1.16

^{*} PEAK SEASON

KMF Traffic Group, LLC

(772) 924-6993 www.kmftraffic.net

Manual Traffic Count - All Traffic Forest Hill Blvd & Polo Club/Royal Fern Wellington, FL File Name : FOPO Site Code : SW2228 Start Date : 10/18/2022

Page No : 1

Groups Printed- All traffic

		olo C	lub Rd				Fern D	rintec			Hill Blv	d	E.	oract l	Hill Blv	/d	
		N				S		•			В	u			/B	u	
Start Time	Left	Thru		Peds	Left		Right	Peds	Left	Thru	Right	UTurn	Left	Thru		UTurn	Int. Total
07:00 AM	2	1	13	3	64	0	8	2	38	413	3	2	7	322	29	25	932
07:15 AM	8	0	4	2	69	1	49	2	47	484	5	1	6	286	46	39	1049
07:30 AM	10	0	10	1	109	2	54	0	41	571	5	2	5	375	50	29	1264
07:45 AM	6	2	24	0	87	2	57	0	37	503	8	1	18	360	105	55	1265
Total	26	3	51	6	329	5	168	4	163	1971	21	6	36	1343	230	148	4510
08:00 AM	9	0	22	0	90	0	33	1	11	560	8	0	29	308	15	16	1102
08:15 AM	7	0	7	1	53	1	7	0	24	549	8	0	18	344	17	9	1045
08:30 AM	6	3	13	0	42	2	18	0	21	440	9	0	24	320	27	8	933
08:45 AM	5	0	17	2	59	1	15	1	17	401	11	0	22	308	13	6	878
Total	27	3	59	3	244	4	73	2	73	1950	36	0	93	1280	72	39	3958
*** BREAK	***																
04:00 PM	10	0	32	2	54	2	24	0	11	365	10	3	17	408	9	12	959
04:15 PM	16	0	32	1	27	0	17	1	17	429	5	1	17	439	15	4	1021
04:30 PM	9	0	31	0	38	0	11	0	10	488	12	0	21	510	14	9	1153
04:45 PM	9	2	27	1	45	0	14	0	15	457	6	0	15	434	21	10	1056
Total	44	2	122	4	164	2	66	1	53	1739	33	4	70	1791	59	35	4189
05:00 PM	9	0	18	0	42	1	20	1	18	512	12	0	21	532	7	9	1202
05:15 PM	6	0	19	0	45	1	20	1	15	421	9	0	15	547	18	7	1124
05:30 PM	11	1	24	1	61	0	14	0	4	377	5	0	17	467	8	7	997
05:45 PM	4	1	21	1	35	0	22	0	7	445	14	0	11	504	8	2	1075
Total	30	2	82	2	183	2	76	2	44	1755	40	0	64	2050	41	25	4398
Grand Total	127	10	314	15	920	13	383	9	333	7415	130	10	263	6464		247	17055
Apprch %	27.3	2.1	67.4	3.2	69.4	1	28.9	0.7	4.2	94	1.6	0.1	3.6	87.6	5.5	3.3	
Total %	0.7	0.1	1.8	0.1	5.4	0.1	2.2	0.1	2	43.5	0.8	0.1	1.5	37.9	2.4	1.4	

KMF Traffic Group, LLC

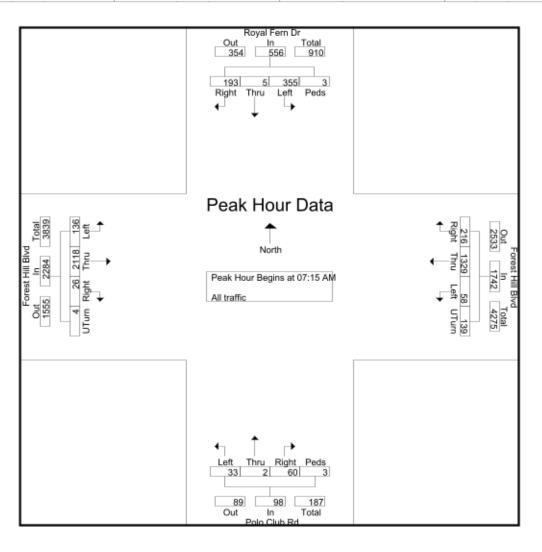
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Manual Traffic Count - All Traffic Forest Hill Blvd & Polo Club/Royal Fern Wellington, FL

File Name : FOPO Site Code : SW2228 Start Date : 10/18/2022

Page No : 2

		Pol	o Clu	b Rd			Roy	al Fe	rn Dr	-		Fore	st Hil	II Blv	d		Fore	st Hil	II Blv	d	
			NB					SB					EB					WB			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	UTurn	App. Total	Left	Thru	Right	UTurn	App. Total	Int. Total
Peak Hour	Analys	sis Fro	om 07	':00 A	M to 08	3:45 A	M - P	eak 1	of 1												
Peak Hou	ur for	^r Ent	ire I	nters	ection	n Beg	gins	at 07	7:15	AM											
07:15 AM	8	0	4	2	14	69	1	49	2	121	47	484	5	1	537	6	286	46	39	377	1049
07:30 AM	10	0	10	1	21	109	2	54	0	165	41	571	5	2	619	5	375	50	29	459	1264
07:45 AM	6	2	24	0	32	87	2	57	0	146	37	503	8	1	549	18	360	105	55	538	1265
08:00 AM	9	0	22	0	31	90	0	33	1	124	11	560	8	0	579	29	308	15	16	368	1102
Total Volume	33	2	60	3	98	355	5	193	3	556	136	2118	26	4	2284	58	1329	216	139	1742	4680
% App. Total	33.7	2	61.2	3.1		63.8	0.9	34.7	0.5		6	92.7	1.1	0.2		3.3	76.3	12.4	8		
PHF	.825	.250	.625	.375	.766	.814	.625	.846	.375	.842	.723	.927	.813	.500	.922	.500	.886	.514	.632	.809	.925



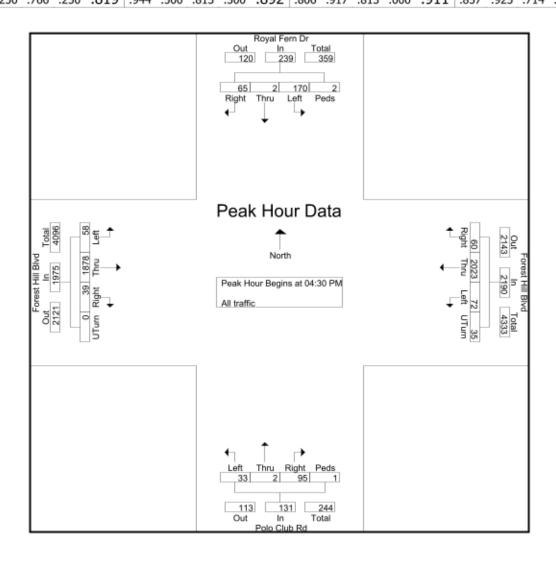
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Manual Traffic Count - All Traffic Forest Hill Blvd & Polo Club/Royal Fern Wellington, FL File Name : FOPO Site Code : SW2228 Start Date : 10/18/2022

Page No : 3

		Pol	o Clu	b Rd			Roy	al Fe	rn Dr	•		Fore	st Hil	II Blv	d		Fore	st Hil	II Blv	d	
			NB					SB					EB					WB			
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	UTurn	App. Total	Left	Thru	Right	UTurn	App. Total	Int. Total
Peak Hour	Analy:	sis Fr	om 04	l:00 P	M to 0!	5:45 F	PM - P	eak 1	of 1												
Peak Ho	ur foi	r Ent	ire I	nters	ection	n Beg	gins	at 04	1:30	PM											
04:30 PM	9	0	31	0	40	38	0	11	0	49	10	488	12	0	510	21	510	14	9	554	1153
04:45 PM	9	2	27	1	39	45	0	14	0	59	15	457	6	0	478	15	434	21	10	480	1056
05:00 PM	9	0	18	0	27	42	1	20	1	64	18	512	12	0	542	21	532	7	9	569	1202
05:15 PM	6	0	19	0	25	45	1	20	1	67	15	421	9	0	445	15	547	18	7	587	1124
Total Volume	33	2	95	1	131	170	2	65	2	239	58	1878	39	0	1975	72	2023	60	35	2190	4535
% App. Total	25.2	1.5	72.5	8.0		71.1	0.8	27.2	8.0		2.9	95.1	2	0		3.3	92.4	2.7	1.6		
PHF	917	250	766	250	819	944	500	813	500	892	806	917	813	000	911	857	925	714	875	933	943



10/12/22, 9:45 AM 33380.htm

Palm Beach County Signal Timing Sheet 10/12/2022

33380: 2570 - Forest Hill Bl and Polo Club Rd (Standard File)

Phase [1.1.1]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	(EL)	(WT)	(SR)	(NR)	(WL)	(ET)										
Walk	0	7	7	0	0	7	0	0	0	0	0	0	0	0	0	0
Ped Clearance	0	23	30	0	0	25	0	0	0	0	0	0	0	0	0	0
Min Green	4	20	6	6	4	20	0	0	0	0	0	0	0	0	0	0
Passage	2	4	2	2	2	4	0	0	0	0	0	0	0	0	0	0
Max1	25	45	35	25	30	45	0	0	0	0	0	0	0	0	0	0
Max2	5	45	8	8	5	45	0	0	0	0	0	0	0	0	0	0
Yellow	5	5	4	4	5	5	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Red	2	2	2.5	2.5	2	2	0	0	0	0	0	0	0	0	0	0

Phase Option [1.1.2]

i nace opacii [i.i.z]																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	(EL)	(WT)	(SR)	(NR)	(WL)	(ET)										
Enable	ON	ON	ON	ON	ON	ON										
Auto Entry			ON													
Auto Exit		ON				ON										
Non Act1																
Non Act2																
Lock Call		ON				ON										
Min Recall		ON				ON										
Max Recall	ON	ON	ON	ON	ON	ON										
Ped Recall																
Dual Entry		ON				ON										
Sim Gap Enable																
Rest In Walk																

Detector, Vehicle Parameters 1-16 [5.1]

I		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L		(EL1)	(WT1)	(ST1)	(NT1)	(WL1)	(ET1)										
Ι	Call Phase	1	2	2	2	3	3	3	5	6	- 6	6	0	4	4	0	0
Ι	Switch Phase	6	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	Delay Time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Detector, Vehicle Parameters 17-32 [5.1]

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Call Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Switch Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Detector, Vehicle Parameters 33-48 [5.1]

					_ L .											
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Call Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Switch Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Time	0	0	0	0	0	- 0	0	0	0	0	0	0	-0	0	0	- 0

Detector Vehicle Parameters 49-64 [5 1]

-	occoon, vo	HICIC	ı aran	ICICIO	43-0	Ŧ [Ŭ. 1,											
Γ		49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
	Call Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Switch Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dulas, Times	- 0	0.	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0		Δ	- 0	- 0

10/12/22, 9:45 AM 33380.htm

Palm Beach County System Timing Sheet 10/12/2022

33380: 2570 - Forest Hill Bl and Polo Club Rd (Standard File)

TB Coor, Day Plan[4.4]

Day Plan Table 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Hour		- 6	7	8	9	13	14	15	19	21						
Minute			40	10		45	25	30								
Action	21	2	8	2	1	7	1	3	1	21						

Day Plan Table 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Hour		9	14	20												
Minute																
Action	21	5	4	21												

Day Plan Table 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Hour		10	14	18												
Minute		30		30												
Action	21	5	4	21												

Coordination, Pattern 1-16 [2.1]/Coordination, Alt Tables+[2.6]

Pattern	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Cycle Time	140	160	160	160	160		140	160			160	200	200			
Offset Time	12	65	50	15	15		12	65			70	30	60			
Split Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Seq Number	1	1	1	9	9	1	1	1	1	1	9	9	9	1	1	1
Ph Opt Alt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ph Time Alt	1	2	3	5	4	0	3	2	0	0	0	0	0	0	0	0

Coordination, Splits [2.7.1]

	, ,															
Split Table 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	20	82	21	17	20	82		38								
Mode	NON	MAX	NON	NON	NON	MAX	NON									
Coord-Ph		ON														

Split Table 2	1	2	3	4	5	- 6	7	8	9	10	11	12	13	14	15	16
Time	25	88	28	19	21	92		47								
Mode	NON	MAX	NON	NON	NON	MAX	NON									
Coord Ph		ONL														

Split Table 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	18	96	28	18	27	87		46								
Mode	NON	MAX	NON	NON	NON	MAX	NON									
Coord-Ph		ON														

$S_{\mathbf{F}}$	olit Table 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Time	17	81	44	18	19	79		62								
	Mode	NON	MAX	NON	NON	NON	MAX	NON									
	Coord-Ph		ON														

Split Table 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	17	79	44	20	23	73		64								
Mode	NON	MAX	NON	NON	NON	MAX	NON									
Coord-Ph		ON														

Split Table 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	20	39	24	17	20	39		41								
Mode	NON	MAX	NON	NON	NON	MAX	NON									
Coord-Ph		ON														

Approved By: Ron Tibbetts

Date:

Palm Beach County

Preempt & Overlap Timing Sheet

10/12/2022

33380 : 2570 - Forest Hill Bl and Polo Club Rd (Standard File)

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Preemption

Times[3.1]/Phases[3.2]/Options[3.3]

Channel	1	2	3	4	5	6
Lock Input	ON	ON	ON	ON	ON	ON
Override Flash						
Override Higher						
Flash Dwell						
Link						
Delay						
Min Duration						
Min Green			5	5	5	5
Min Walk			4	4	4	4
Ped Clear			22	22	22	22
Track Green						
Min Dwell			10	10	10	10
Max Presence			120	120	120	120
Track R1						
Track R2						
Track R3						
Track R4						
Dwell P1			2	2	3	- 4
Dwell P2			- 6	- 6		
Dwell P3						
Dwell P4						
Dwell P5						
Dwell P6						
Dwell P7						
Dwell P8						
Dwell P9						
Dwell P10						
Dwell P11						
Dwell P12						
Dwell Ped1						
Dwell Ped2						
Dwell Ped3						
Dwell Ped4						
Dwell Ped5						
Dwell Ped6						
Dwell Ped7						
Dwell Ped8						
Exit R1			2	2	2	2
Exit R2			6	6	6	6
Exit R3			Ť		Ť	
Exit R4						

Preemption Times+[3.4]/Overlaps+[3.5]/Options+

Preempt	1	2	3	4	5	6
Enable			ON	ON	ON	ON
Туре	EMERG	EMERG	EMERG	EMERG	EMERG	EMERG
Skip Track	Dividico	LIVELICO	LIMERCO	LIMERCO	LIMERCO	Livillaco
Volt Mon Flash						
Coord in Preempt						
Max2						
Return Max/Min	MAX	MAX	MAX	MAX	MAX	MAX
Extend Dwell	MILLY	MILLO	MILLY	MILLY	MILLY	1417474
Pattern						
Output Mode	TS2	TS2	TS2	TS2	TS2	TS2
Track Over 1	102	102	102	102	102	102
Track Over 2						
Track Over 3						
Track Over 4						
Track Over 5						
Track Over 6						
Track Over 7						
Track Over 8						
Track Over 9						
Track Over 10						
Track Over 11						
Track Over 12						
Dwell Over 1						
Dwell Over 2						
Dwell Over 3						
Dwell Over 4						
Dwell Over 5						
Dwell Over 6						
Dwell Over 7						
Dwell Over 8						
Dwell Over 9						
Dwell Over 10						
Dwell Over 11						
Dwell Over 12						
Ped Clear						
Yellow						
Red						
Return Min/Max						
Delay Inh						
Exit Time						
All Red B4						
All Red D4						

Overlap Program Parameters [1.5.2.1]

Overlap			Ir	ıclude	d Phas	ses					N	1odife:	r Phase	es			Type	Green	Yellow	Red
Overlap 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 2	-0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 4	-0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 6	-0	0	0	0	0	0	0	0	-0	0	0	0	0	-0	0	0	NORMAL	0	3.5	1.5
Overlap 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 8	-0	0	0	0	0	0	0	0	-0	0	0	0	0	-0	0	0	NORMAL	0	3.5	1.5
Overlap 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 10	3	0	0	0	0	0	0	0	-0	0	0	0	0	-0	0	0	NORMAL	0	3.5	1.5
Overlap 11	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 12	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 13	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 14	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 15	-0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NORMAL	0	3.5	1.5
Overlap 16	-0	0	0	0	0	- 0	0	0	-0	0	0	- 0	0	-0	0	0	NORMAL	0	3.5	1.5

A DESCRIPTION OF THE PROPERTY	T
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10/12/2022 Palm Beach County Alternate Timing Sheet

33380: 2570 - Forest Hill Bl and Polo Club Rd (Standard File)

Alternate Phase Program 1, Interval Times [1.1.6.1]

Alternate Phase Programx 2, Interval Times [1.1.6.1]

Phase Walk | Ped | Min | Passage Max1 | Max2 | Yellow | Red | Assign | Bike |

		Clear	Green					Clear	Ph	Clear
1	0	0	4	2	17	0	5	2	1	0
2	7	23	20	4	79	0	5	2	2	0
3	7	30	6	2	18	0	4	2.5	3	0
4	0	0	6	2	14	0	4	2.5	4	0
5	0	0	4	2	17	0	5	2	5	0
6	7	25	20	4	79	0	5	2	6	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0

		Clear	Green					Clear	Ph	Clear
1	0	0	4	2	25	0	5	2	1	0
2	7	23	20	4	85	0	5	2	2	0
3	7	30	6	2	25	0	4	2.5	3	0
4	0	0	- 6	2	16	0	4	2.5	4	0
5	0	0	4	2	21	0	5	2	- 5	0
- 6	7	25	20	4	89	0	5	2	- 6	0
7	-0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0

Alternate Phase Program 3, Interval Times [1.1.6.1]

Alternate Phase F	Program 4,	Interval	Times
[1.1.6.1]			

Phase	Walk	Ped Clear	Min Green	Passage	Max1	Max2	Yellow	Red Clear	Assign Ph	Bike Clear
1	0	0	4	2	15	0	5	2	1	0
2	7	23	20	4	93	0	5	2	2	0
3	7	30	6	2	25	0	4	2.5	3	0
4	0	0	6	2	15	0	4	2.5	4	0
5	0	0	4	2	24	0	5	2	5	0
6	7	25	20	4	84	0	5	2	6	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0

Phase	Walk	Ped Clear	Min Green	Passage	Max1	Max2	Yellow	Red Clear	Assign Ph	Bike Clear
1	0	0	4	2	14	0	5	2	1	- 0
2	7	23	20	4	78	0	5	2	2	-0
3	7	30	6	2	20	0	4	2.5	3	-0
4	0	0	6	2	15	0	4	2.5	4	- 0
5	0	0	4	2	16	0	5	2	5	0
6	7	25	20	4	76	0	5	2	6	- 0
7	0	0	0	0	0	0	0	0	0	-0
8	0	0	0	0	0	0	0	0	0	- 0

Alternate Phase Program 5, Interval Times

[1.1.6.1]

Walk	Ped Clear	Min Green	Passage	Max1	Max2	Yellow	Red Clear	Assign Ph	Bike Clear
0	0	4	2	14	0	5	2	1	0
7	23	20	4	76	0	5	2	2	0
7	30	6	2	20	0	4	2.5	3	0
0	0	6	2	17	0	4	2.5	4	0
0	0	4	2	20	0	5	2	5	0
7	25	20	4	70	0	5	2	6	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
֡	0 7 7 0 0 7	0 0 7 23 7 30 0 0 0 0 7 25 0 0	0 0 4 7 23 20 7 30 6 0 0 6 0 0 4 7 25 20 0 0 0	0 0 4 2 7 23 20 4 7 30 6 2 0 0 6 2 0 0 4 2 7 25 20 4 0 0 0 0	0 0 4 2 14 7 23 20 4 76 7 30 6 2 20 0 0 6 2 17 0 0 4 2 20 7 25 20 4 70 0 0 0 0	0 0 4 2 14 0 7 23 20 4 76 0 7 30 6 2 20 0 0 0 6 2 17 0 0 0 4 2 20 0 7 25 20 4 70 0 0 0 0 0 0 0	O 0 4 2 14 0 5 7 23 20 4 76 0 5 7 30 6 2 20 0 4 0 0 6 2 20 0 4 0 0 4 2 20 0 5 7 25 20 4 70 0 5 0 0 0 0 0 0 0	Clear Green Passage Max Max2 Tellow Clear 0 0 4 2 14 0 5 2 7 23 20 4 76 0 5 2 7 30 6 2 20 0 4 2.5 0 0 6 2 17 0 4 2.5 0 0 4 2 20 0 5 2 7 25 20 4 70 0 5 2 0 0 0 0 0 0 0 0	0 0 4 2 14 0 5 2 1 7 23 20 4 76 0 5 2 2 7 30 6 2 20 0 4 2.5 3 0 0 6 2 17 0 4 2.5 3 0 0 4 2 20 0 5 2 5 7 25 20 4 70 0 5 2 6 0 0 0 0 0 0 0 0

TB Coor, Day Plan [4.4]

Day Plan Table 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Hour		- 6	9	12	18											
Minute		30														
Action	100	4	5	- 6	4											

Day Plan Table 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Hour		9	12	22												
Minute																
Action	100	4	- 5	- 4												

Day Plan Table 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Hour																
Minute																
Action																

Approved By: Ron Tibbetts

Date:

Palm Beach County

Special System Timing Sheet

10/12/2022

33380: 2570 - Forest Hill Bl and Polo Club Rd (Standard File)

Coordination, Splits [2.7.1]

Split Table 7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	20	74	28	18	24	70		46								
Mode	NON	MAX	NON													
Coord-Ph		ON														

1	Split Table 8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Time	25	75	42	18	24	76		60								
- [Mode	NON	MAX	NON	NON	NON	MAX	NON									
- 1	Coord-Ph		ON														

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Split Table 9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time																
Mode	NON	MAX	NON	NON	NON	MAX	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
Coord-Ph		ON														
Split Table 10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time																
Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
Coord-Ph		ON														
Split Table 11	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	18	75	47	20	24	69		67								
Mode	NON	MAX	NON	NON	NON	MAX	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
Coord-Ph		ON														
Split Table 12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time	20	113	47	20	24	109		67								
Mode	NON	MAX	NON	NON	NON	MAX	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
Mode	NON															
Coord-Ph	NON	ON														
	NON															
Coord-Ph		ON	3	4	5	6	7	8	0	10	11	12	13	14	15	16
Coord-Ph	1	ON 2	3 47	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord-Ph Split Table 13 Time	1 16	ON 2 119	47	18	16	119		65								
Coord-Ph Split Table 13	1	ON 2			-		7 NON		9 NON	10 NON	11 NON	12 NON	13 NON	14 NON	15 NON	16 NON
Coord-Ph Split Table 13 Time Mode	1 16	ON 2 119 MAX	47	18	16	119		65								
Coord-Ph Split Table 13 Time Mode Coord-Ph	1 16	ON 2 119 MAX	47	18	16	119		65								
Coord-Ph Split Table 13 Time Mode Coord-Ph	1 16 NON	ON 2 119 MAX ON	47 NON	18 NON	16 NON	119 MAX	NON	65 NON	NON	NON	NON	NON	NON	NON	NON	NON
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14	1 16 NON	ON 2 119 MAX ON	47 NON	18 NON	16 NON	119 MAX	NON	65 NON	NON	NON	NON	NON	NON	NON	NON	NON
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time	1 16 NON	ON 2 119 MAX ON	47 NON	18 NON	16 NON	119 MAX	NON 7	65 NON	NON 9	NON 10	NON 11	NON 12	NON	NON 14	NON	NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode	1 16 NON	ON 2 119 MAX ON 2 NON	47 NON	18 NON	16 NON	119 MAX	NON 7	65 NON	NON 9	NON 10	NON 11	NON 12	NON	NON 14	NON	NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph	1 16 NON	ON 2 119 MAX ON 2 NON	47 NON	18 NON	16 NON 5 NON	MAX 6 NON	NON 7	65 NON 8 NON	NON 9	NON 10 NON	NON 11 NON	NON 12 NON	NON 13	NON 14 NON	NON 15	NON 16 NON
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph Split Table 15	1 16 NON	ON 2 119 MAX ON 2 NON	47 NON	18 NON	16 NON	119 MAX	NON 7 NON	65 NON	NON 9	NON 10	NON 11	NON 12	NON	NON 14	NON	NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph	1 16 NON	ON 2 119 MAX ON 2 NON	47 NON	18 NON	16 NON 5 NON	6 NON	NON 7 NON	65 NON 8 NON	NON 9	NON 10 NON	NON 11 NON	NON 12 NON	NON 13	NON 14 NON	NON 15	NON 16 NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph Split Table 15 Time	1 16 NON 1 NON	ON 2 119 MAX ON 2 NON ON 2	3 NON	18 NON 4 NON	16 NON 5 NON	MAX 6 NON	NON 7	65 NON 8 NON	NON 9	NON 10 NON 10	NON 11 NON 11	NON 12 NON 12	NON 13	NON 14 NON	NON 15	NON 16 NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph Split Table 15 Time Mode	1 16 NON 1 NON	ON 2 119 MAX ON 2 NON NON	3 NON	18 NON 4 NON	16 NON 5 NON	6 NON	NON 7	65 NON 8 NON	NON 9	NON 10 NON 10	NON 11 NON 11	NON 12 NON 12	NON 13	NON 14 NON	NON 15	NON 16 NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph Split Table 15 Time Mode Coord-Ph Coord-Ph	1 16 NON 1 NON	ON 2 119 MAX ON 2 NON NON	3 NON	18 NON 4 NON	16 NON 5 NON	6 NON	NON 7	65 NON 8 NON	NON 9	NON 10 NON 10	NON 11 NON 11	NON 12 NON 12	NON 13	NON 14 NON	NON 15	NON 16 NON 16
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph Split Table 15 Time Mode Coord-Ph Coord-Ph	1 16 NON 1 1 NON NON	ON 2 119 MAX ON 2 NON NON NON ON	3 NON	18 NON 4 NON NON	16 NON 5 NON	6 NON NON	NON 7 NON NON	65 NON 8 NON 8	NON 9 NON NON	NON 10 NON 10 NON	NON 11 NON 11 NON	NON 12 NON 12 NON	NON 13 NON 13 NON	NON 14 NON 14 NON	NON 15 NON 15 NON	NON 16 NON 16 NON
Coord-Ph Split Table 13 Time Mode Coord-Ph Split Table 14 Time Mode Coord-Ph Split Table 15 Time Mode Coord-Ph Split Table 15 Time Mode Coord-Ph	1 16 NON 1 1 NON NON	ON 2 119 MAX ON 2 NON NON NON ON	3 NON	18 NON 4 NON NON	16 NON 5 NON	6 NON NON	NON 7 NON NON	65 NON 8 NON 8	NON 9 NON NON	NON 10 NON 10 NON	NON 11 NON 11 NON	NON 12 NON 12 NON	NON 13 NON 13 NON	NON 14 NON 14 NON	NON 15 NON 15 NON	NON 16 NON 16 NON

Approved By: Ron Tibbetts	Date:
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HCS+™ DETAILED REPORT General Information Site Information Intersection Forest Hill + Polo Club Analyst All other areas Area Type Agency or Co. Simmons & White Jurisdiction VOW Date Performed 11/11/2022 2026 - Background Volumes Time Period AM Peak - Existing Timings Analysis Year Project ID 21-196 Farrell West Volume and Timing Input ΕB WB NB SB TH TH LT TH RT LT RT LT TH RT LT RT 0 Number of Lanes, N1 3 3 0 2 0 1 1 1 1 1 1 TR TR Lane Group L L R L TR 150 2485 232 380 Volume, V (vph) 29 213 1585 37 2 69 5 207 % Heavy Vehicles, %HV 2 2 2 2 2 2 2 2 2 2 Peak-Hour Factor, PHF 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Pretimed (P) or Actuated (A) Α Α Α Α Α Α Α Α Α Α Α Α 2.0 Start-up Lost Time, I1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Extension of Effective Green, e Arrival Type, AT 3 3 3 3 3 3 3 3 3 3.0 3.0 3.0 3.0 3.0 Unit Extension, UE 3.0 3.0 3.0 3.0 Filtering/Metering, I 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.0 0.0 0.0 0.0 Initial Unmet Demand, Qb 0.0 0.0 0.0 0.0 0.0 Ped / Bike / RTOR Volumes 0 10 0 0 0 10 0 10 0 0 0 Lane Width 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 Ν 0 Parking / Grade / Parking Ν Ν 0 Ν Ν 0 Ν Ν 0 Ν Parking Maneuvers, Nm Buses Stopping, NB 0 0 0 0 0 0 0 0 0 Min. Time for Pedestrians, Gp 3.2 3.2 3.2 3.2 EB Only EW Perm 04 SB Only NB Only 07 80 Phasing Excl. Left G = 14.0G = 4.0G = 81.0G = G = 21.5G = 12.5G = G = Timing Y = 7Y = Y = 7Y = 0Y = 6.5Y = 6.5Y = Y = Duration of Analysis, T = 0.25Cycle Length, C = 160.0 Lane Group Capacity, Control Delay, and LOS Determination WB EB NB SB LT TH RT LT TΗ RT LT TΗ RT LT TΗ RT Adjusted Flow Rate, v 224 39 158 2636 1668 244 64 400 212 Lane Group Capacity, c 2692 124 214 351 147 2569 1083 138 462 v/c Ratio, X 0.45 0.98 1.52 0.650.230.280.520.870.99Total Green Ratio, g/C 0.71 0.53 0.56 0.51 0.68 0.08 0.08 0.130.13 69.1 Uniform Delay, d, 36.6 51.2 29.1 9.4 69.5 70.8 67.8 24.9 Progression Factor, PF 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Delay Calibration, k 0.11 0.48 0.23 0.11 0.12 0.40 0.490.50 0.11 Incremental Delay, d2 12.8 0.9 267.1 0.6 0.1 1.1 3.7 15.8 58.7 Initial Queue Delay, d2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay 25.8 49.5 318.3 29.6 9.5 70.6 74.6 83.6 127.9 Lane Group LOS F D С Ε Ε F F С Α Approach Delay 48.1 57.6 73.1 98.9 Approach LOS D Ε F F $X_{c} = 1.84$ Intersection Delay 57.7 Intersection LOS Ε

General Information

Project Description 21-196 Farrell West

Average	Back	of O	IIEIIE
Average	Dack	UI W	ueue

		EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	
Lane Group	L	TR		L	Т	R	L	TR		L	TR		
Initial Queue/Lane	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0		
Flow Rate/Lane Group	158	2636		224	1668	244	39	64		400	212		
Satflow/Lane	497	1860		260	1862	1583	1770	1592		1770	1590		
Capacity/Lane Group	351	2692		147	2569	1083	138	124		462	214		
Flow Ratio	0.3	0.5		0.9	0.3	0.2	0.0	0.0		0.1	0.1		
v/c Ratio	0.45	0.98		1.52	0.65	0.23	0.28	0.52		0.87	0.99		
I Factor	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000	1.000		
Arrival Type	3	3		3	3	3	3	3		3	3		
Platoon Ratio	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00		
PF Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00		
Q1	2.2	42.0		4.6	20.0	4.0	1.6	2.7		8.9	9.4		
kв	0.5	1.0		0.3	0.9	1.0	0.3	0.3		0.4	0.4		
Q2	0.4	9.6		10.5	1.7	0.3	0.1	0.3		1.8	3.1		
Q Average	2.6	51.5		15.1	21.7	4.3	1.8	3.0		10.7	12.5		
Percentile Back of Queue	(95th pe	ercenti	le)		•	•		•					
fB%	2.0	1.5		1.8	1.7	2.0	2.0	2.0		1.8	1.8		
Back of Queue	5.3	79.1		26.5	36.4	8.6	3.6	6.1		19.7	22.5		
Queue Storage Ratio							1			1	1		
Queue Spacing	25.0	25.0		25.0	25.0	25.0	25.0	25.0		25.0	25.0		
Queue Storage	0	0		0	0	0	0	0		0	0		
Average Queue Storage Ratio													
95% Queue Storage Ratio													

HCS+™ DETAILED REPORT Site Information General Information Intersection Forest Hill + Polo Club Analyst All other areas Area Type Agency or Co. Simmons & White Jurisdiction VOW Date Performed 11/11/2022 2026 - Background Volumes Time Period PM Peak - Existing Timings Analysis Year Project ID 21-196 Farrell West Volume and Timing Input ΕB WB NB SB TH TH LT TH RT LT RT LT TH RT LT RT 0 0 Number of Lanes, N1 3 3 2 0 1 1 1 1 1 1 TR TR Lane Group L R L TR 2207 64 Volume, V (vph) 62 44 121 2379 37 2 106 182 2 70 % Heavy Vehicles, %HV 2 2 2 2 2 2 2 2 2 2 Peak-Hour Factor, PHF 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Pretimed (P) or Actuated (A) Α Α Α Α Α Α Α Α Α Α Α Α 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Start-up Lost Time, I1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Extension of Effective Green, e Arrival Type, AT 3 3 3 3 3 3 3 3 3 3.0 3.0 3.0 3.0 3.0 3.0 Unit Extension, UE 3.0 3.0 3.0 Filtering/Metering, I 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.0 0.0 0.0 Initial Unmet Demand, Qb 0.0 0.0 0.0 0.0 0.0 0.0 Ped / Bike / RTOR Volumes 0 10 0 0 60 0 10 0 10 0 0 0 Lane Width 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 Ν 0 Parking / Grade / Parking Ν Ν 0 Ν Ν 0 Ν Ν 0 Ν Parking Maneuvers, Nm Buses Stopping, NB 0 0 0 0 0 0 0 0 0 3.2 3.2 3.2 3.2 Min. Time for Pedestrians, Gp EB Only EW Perm 04 SB Only NB Only 07 80 Phasing Excl. Left G = 11.0G = 9.0G = 80.0G = G = 21.5G = 11.5G = G = Timing Y = 7Y = Y = 7Y = 0Y = 6.5Y = 6.5Y = Y = Duration of Analysis, T = 0.25Cycle Length, C = 160.0 Lane Group Capacity, Control Delay, and LOS Determination WB EB NB SB LT TH RT LT TΗ RT LT TH RT LT TΗ RT Adjusted Flow Rate, v 65 127 39 2359 2504 4 103 192 65 Lane Group Capacity, c 2816 2537 127 214 346 113 1073 114 462 v/c Ratio, X 0.19 0.84 1.12 0.990.00 0.310.90 0.420.30Total Green Ratio, g/C 0.71 0.56 0.540.50 0.68 0.07 0.07 0.130.13 73.7 Uniform Delay, d, 29.5 39.1 39.5 8.3 70.5 63.5 62.5 28.3 Progression Factor, PF 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Delay Calibration, k 0.11 0.37 0.490.11 0.42 0.11 0.11 0.50 0.11 Incremental Delay, d2 0.3 2.4 121.9 14.9 0.0 1.4 55.3 0.6 0.8 Initial Queue Delay, d2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay 28.6 31.9 161.0 54.4 8.3 71.8 129.0 64.1 63.3 Lane Group LOS F С D Ε F Ε С Α Ε Approach Delay 31.8 59.4 113.3 63.9 Approach LOS С Ε F Ε $X_c = 0.93$ Intersection Delay 48.8 Intersection LOS D

General Information

Project Description 21-196 Farrell West

Average Back of Queue		EB			WB			NB			SB	
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	T	R	L	TR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Flow Rate/Lane Group	65	2359		127	2504	4	39	103		192	65	
Satflow/Lane	485	1858		210	1862	1583	1770	1589		1770	1592	
Capacity/Lane Group	346	2816		113	2537	1073	127	114		462	214	
Flow Ratio	0.1	0.5		0.6	0.5	0.0	0.0	0.1		0.1	0.0	
v/c Ratio	0.19	0.84		1.12	0.99	0.00	0.31	0.90		0.42	0.30	
I Factor	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Arrival Type	3	3		3	3	3	3	3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Q1	0.9	32.0		2.7	40.3	0.1	1.6	4.5		4.0	2.6	
kв	0.5	1.0		0.3	0.9	1.0	0.3	0.3		0.4	0.4	
Q2	0.1	4.3		3.1	9.6	0.0	0.1	1.3		0.3	0.2	
Q Average	1.0	36.3		5.8	50.0	0.1	1.8	5.8		4.3	2.8	
Percentile Back of Queue	(95th p	ercenti	ile)		•							•
fB%	2.1	1.6		1.9	1.5	2.1	2.0	1.9		2.0	2.0	
Back of Queue	2.0	57.3		11.3	76.8	0.1	3.6	11.3		8.4	5.6	
Queue Storage Ratio				1		1		1			1	
Queue Spacing	25.0	25.0		25.0	25.0	25.0	25.0	25.0		25.0	25.0	
Queue Storage	0	0		0	0	0	0	0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

HCS+™ DETAILED REPORT General Information Site Information Intersection Forest Hill + Polo Club SW Analyst Area Type All other areas Agency or Co. Simmons & White VOW Jurisdiction Date Performed 11/11/2022 2026 Background Vols Analysis Year Time Period AM Peak w/Improvs 21-196 Farrell West - 2nd Project ID WBL, 3rd SBL Volume and Timing Input SB WB EB NB LT TH RT LT TH RT LT TH RT LT TH RT Number of Lanes, N₁ 3 3 1 3 0 2 1 1 1 0 1 0 T TR TR L TR R L L Lane Group L 150 2485 29 213 232 37 380 207 Volume, V (vph) 1585 2 69 5 % Heavy Vehicles, %HV 2 2 2 2 2 2 2 2 2 2 Peak-Hour Factor, PHF 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Pretimed (P) or Actuated (A) Α Α Α Α Α Α Α Α Α Α Α Α Start-up Lost Time, I1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Extension of Effective Green. e 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Arrival Type, AT 3 3 3 3 3 3 3 3 3 Unit Extension, UE 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 Filtering/Metering, I 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Initial Unmet Demand, Qb 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Ped / Bike / RTOR Volumes 0 0 10 0 0 0 0 0 10 0 0 10 12.0 12.0 12.0 12.0 12.0 Lane Width 12.0 12.0 12.0 12.0 0 Parking / Grade / Parking Ν Ν Ν 0 Ν Ν 0 Ν N 0 Ν Parking Maneuvers, Nm Buses Stopping, NB 0 0 0 0 0 0 0 0 Min. Time for Pedestrians, Gp 3.2 3.2 3.2 3.2 EW Perm 04 80 Phasing EB Only SB Only NB Only 07 Excl. Left G = 10.0G = 2.5G = 81.0G = G = 27.0G = 12.5G = G = Timing Y = 7Y = 0Y = 7Y = Y = 6.5Y = 6.5Y = Y = Duration of Analysis, T = 0.25Cycle Length, C = 160.0 Lane Group Capacity, Control Delay, and LOS Determination EB WB NB SB RT RT TΗ RT LT TΗ LT TΗ LT LT TΗ RT Adjusted Flow Rate, v 158 2636 224 1668 244 39 64 400 212 Lane Group Capacity, c 290 2645 1047 2569 1138 138 124 813 268 v/c Ratio, X 1.00 0.54 0.21 0.65 0.21 0.28 0.52 0.49 0.79 Total Green Ratio, g/C 0.67 0.52 0.540.51 0.72 0.08 0.08 0.17 0.17 Uniform Delay, d₁ 27.2 38.1 20.0 29.1 7.5 69.5 70.8 60.363.8 Progression Factor, PF 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Delay Calibration, k 0.14 0.11 0.50 0.11 0.23 0.11 0.11 0.12 0.34 Incremental Delay, d₂ 2.1 16.7 0.1 0.6 0.1 3.7 14.8 1.1 0.5 Initial Queue Delay, d2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay 29.3 54.8 20.1 29.6 7.6 70.6 74.6 60.8 78.6 Lane Group LOS С D С С Ε Ε Α Ε Ε Approach Delay 53.3 26.1 73.1 66.9 Approach LOS С Ε Ε D $X_{c} = 0.87$ Intersection Delay 44.9 Intersection LOS D

General Information

Project Description 21-196 Farrell West - 2nd WBL, 3rd SBL

Avorage Back of Quede		EB			WB			NB		1	SB	
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	Т	R	L	TR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Flow Rate/Lane Group	158	2636		224	1668	244	39	64		400	212	
Satflow/Lane	432	1860		1003	1862	1583	1770	1592		1769	1590	
Capacity/Lane Group	290	2645		1047	2569	1138	138	124		813	268	
Flow Ratio	0.4	0.5		0.1	0.3	0.2	0.0	0.0		0.1	0.1	
v/c Ratio	0.54	1.00		0.21	0.65	0.21	0.28	0.52		0.49	0.79	
I Factor	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Arrival Type	3	3		3	3	3	3	3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Q1	2.5	42.8		2.4	20.0	3.6	1.6	2.7		5.9	9.0	
kв	0.4	1.0		0.7	0.9	1.1	0.3	0.3		0.5	0.4	
Q2	0.5	10.6		0.2	1.7	0.3	0.1	0.3		0.4	1.4	
Q Average	3.0	53.4		2.6	21.7	3.9	1.8	3.0		6.3	10.4	
Percentile Back of Queue	(95th p	ercenti	ile)						•			
fB%	2.0	1.5		2.0	1.7	2.0	2.0	2.0		1.9	1.8	
Back of Queue	6.0	81.8		5.2	36.4	7.7	3.6	6.1		12.2	19.2	
Queue Storage Ratio												
Queue Spacing	25.0	25.0		25.0	25.0	25.0	25.0	25.0		25.0	25.0	
Queue Storage	0	0		0	0	0	0	0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

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HCS+™ DETAILED REPORT General Information Site Information Intersection Forest Hill + Polo Club SW Analyst Area Type All other areas Agency or Co. Simmons & White VOW Jurisdiction Date Performed 11/11/2022 2026 Background Vols Analysis Year Time Period PM Peak w/Improvs 21-196 Farrell West - 2nd Project ID WBL, 3rd SBL Volume and Timing Input WB SB EB NB LT TH RT LT TH RT LT TH RT LT TH RT Number of Lanes, N₁ 3 0 3 1 3 0 2 1 1 1 1 0 T TR TR L TR R L L Lane Group L 62 2207 121 2379 64 37 Volume, V (vph) 44 2 106 182 2 70 % Heavy Vehicles, %HV 2 2 2 2 2 2 2 2 2 Peak-Hour Factor, PHF 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Pretimed (P) or Actuated (A) Α Α Α Α Α Α Α Α Α Α Α Α Start-up Lost Time, I1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Extension of Effective Green. e 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Arrival Type, AT 3 3 3 3 3 3 3 3 3 Unit Extension, UE 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 Filtering/Metering, I 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Initial Unmet Demand, Qb 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Ped / Bike / RTOR Volumes 0 0 10 0 0 60 0 0 10 0 0 10 12.0 12.0 12.0 12.0 12.0 Lane Width 12.0 12.0 12.0 12.0 0 Parking / Grade / Parking Ν Ν Ν 0 Ν Ν 0 Ν N 0 Ν Parking Maneuvers, Nm Buses Stopping, NB 0 0 0 0 0 0 0 0 Min. Time for Pedestrians, Gp 3.2 3.2 3.2 3.2 EW Perm 04 80 Phasing EB Only SB Only NB Only 07 Excl. Left G = 10.0G = 3.0G = 80.0G = G = 20.0G = 20.0G = G = Timing Y = 7Y = 0Y = 7Y = Y = 6.5Y = Y = Y = 6.5Duration of Analysis, T = 0.25Cycle Length, C = 160.0 Lane Group Capacity, Control Delay, and LOS Determination EB WB NB SB RT RT TΗ RT LT TΗ LT TΗ LT LT TΗ RT Adjusted Flow Rate, v 65 2359 127 2504 4 39 103 192 65 Lane Group Capacity, c 268 2626 865 2537 1059 221 199 603 199 v/c Ratio, X 0.24 0.90 0.15 0.99 0.00 0.18 0.52 0.32 0.33 Total Green Ratio, g/C 0.67 0.52 0.530.50 0.130.130.13 0.13 0.67Uniform Delay, d₁ 30.8 34.7 30.3 39.5 8.8 62.6 65.5 63.8 63.9 Progression Factor, PF 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Delay Calibration, k 0.11 0.42 0.11 0.11 0.11 0.49 0.11 0.12 0.11 Incremental Delay, d₂ 0.5 4.6 0.1 14.9 0.0 0.4 2.4 0.3 1.0 Initial Queue Delay, d2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay 31.2 39.3 30.3 54.4 8.8 63.0 67.9 64.1 64.8 Lane Group LOS С D С Ε Ε Ε D Α Ε Approach Delay 39.1 53.1 66.5 64.3 Approach LOS D Ε Ε D $X_{c} = 0.76$ Intersection Delay 47.8 Intersection LOS D

General Information

Project Description 21-196 Farrell West - 2nd WBL, 3rd SBL

Average	Back	of O	HEHE
Average	Dack	UI 4	ueue

Average Back of Queue		EB			WB			NB			SB	
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Lane Group	L	TR		L	T	R	L	TR		L	TR	
Initial Queue/Lane	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Flow Rate/Lane Group	65	2359		127	2504	4	39	103		192	65	
Satflow/Lane	401	1858		838	1862	1583	1770	1589		1769	1592	
Capacity/Lane Group	268	2626		865	2537	1059	221	199		603	199	
Flow Ratio	0.2	0.5		0.1	0.5	0.0	0.0	0.1		0.0	0.0	
v/c Ratio	0.24	0.90		0.15	0.99	0.00	0.18	0.52		0.32	0.33	
I Factor	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000	1.000	
Arrival Type	3	3		3	3	3	3	3		3	3	
Platoon Ratio	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
PF Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Q1	1.0	34.7		1.4	40.3	0.1	1.6	4.3		2.8	2.6	
kв	0.4	1.0		0.6	0.9	1.0	0.4	0.4		0.4	0.4	
Q2	0.1	5.7		0.1	9.6	0.0	0.1	0.4		0.2	0.2	
Q Average	1.1	40.4		1.5	50.0	0.1	1.6	4.7		3.0	2.8	
Percentile Back of Queue	(95th p	ercenti	ile)		•							
fB%	2.1	1.6		2.1	1.5	2.1	2.0	2.0		2.0	2.0	
Back of Queue	2.3	63.2		3.0	76.8	0.1	3.3	9.2		6.1	5.7	
Queue Storage Ratio												
Queue Spacing	25.0	25.0		25.0	25.0	25.0	25.0	25.0		25.0	25.0	
Queue Storage	0	0		0	0	0	0	0		0	0	
Average Queue Storage Ratio												
95% Queue Storage Ratio												

HCS+™ DETAILED REPORT General Information Site Information Intersection Forest Hill + Polo Club SW Analyst Area Type All other areas Agency or Co. Simmons & White VOW Jurisdiction Date Performed 11/11/2022 Analysis Year 2026 w/ Improvements Time Period AM Peak 21-196 Farrell West & 21-197 Farrell East - 2nd WBL, Project ID 3rd SBL Volume and Timing Input EB WB NB SB RT RT RT RT LT TH LT TH LT TH LT TH 3 1 3 0 2 3 1 1 1 0 1 0 Number of Lanes, N₁ TR TR TR Lane Group L L Τ R L L Volume, V (vph) 150 2485 31 217 1585 232 41 2 79 380 207 5 % Heavy Vehicles, %HV 2 2 2 2 2 2 2 2 2 2 2 2 Peak-Hour Factor, PHF 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Pretimed (P) or Actuated (A) Α Α Α Α Α Α Α Α Α Α Α Α 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Start-up Lost Time, I1 Extension of Effective Green, e 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Arrival Type, AT 3 3 3 3 3 3 3 3 3 Unit Extension, UE 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 1.000 1.000 Filtering/Metering, I 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Initial Unmet Demand, Qb 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Ped / Bike / RTOR Volumes 0 0 0 10 0 0 0 0 10 0 0 10 Lane Width 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 Parking / Grade / Parking Ν 0 Ν Ν 0 Ν Ν 0 Ν Ν 0 Ν Parking Maneuvers, Nm 0 Buses Stopping, NB 0 0 0 0 0 0 0 0 Min. Time for Pedestrians, Gp 3.2 3.2 3.2 3.2 Excl. Left Phasing EB Only EW Perm 04 SB Only NB Only 07 80 G = G = G = 10.0G = 81.0G = 27.0G = 12.5G = G = 2.5Timing Y = 6.5Y = 7Y = 0Y = 7Y = Y = 6.5Y = Y = Duration of Analysis, T = 0.25Cycle Length, C = 160.0 Lane Group Capacity, Control Delay, and LOS Determination WB SB EB NB LT TΗ RT LT TH RT LT TH RT LT TH RT Adjusted Flow Rate, v 158 2638 228 1668 244 43 75 400 212 Lane Group Capacity, c 290 2645 1048 2569 1138 138 124 813 268 v/c Ratio, X 0.54 1.00 0.22 0.650.210.310.60 0.49 0.79Total Green Ratio, g/C 0.67 0.52 0.540.51 0.72 0.08 0.08 0.17 0.17 Uniform Delay, d₁ 7.5 27.2 38.1 20.2 29.1 69.7 71.4 60.3 63.8 Progression Factor, PF 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Delay Calibration, k 0.14 0.50 0.23 0.11 0.11 0.110.110.190.34Incremental Delay, do 2.1 16.9 0.1 0.6 0.1 1.3 8.1 0.5 14.8 Initial Queue Delay, d₃ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay 55.0 20.3 7.6 71.0 29.3 29.6 79.5 60.8 78.6 Lane Group LOS С С D С Α Ε Ε Ε Ε Approach Delay 76.4 53.5 26.1 66.9 Approach LOS D С Ε Ε Intersection Delay $X_{c} = 0.88$ 45.1 Intersection LOS D

General Information

Project Description 21-196 Farrell West & 21-197 Farrell East - 2nd WBL, 3rd SBL

Average back of Queue		EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	
Lane Group	L	TR		L	Т	R	L	TR		L	TR		
Initial Queue/Lane	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0		
Flow Rate/Lane Group	158	2638		228	1668	244	43	75		400	212		
Satflow/Lane	432	1860		1005	1862	1583	1770	1591		1769	1590		
Capacity/Lane Group	290	2645		1048	2569	1138	138	124		813	268		
Flow Ratio	0.4	0.5		0.1	0.3	0.2	0.0	0.0		0.1	0.1		
v/c Ratio	0.54	1.00		0.22	0.65	0.21	0.31	0.60		0.49	0.79		
I Factor	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000	1.000		
Arrival Type	3	3		3	3	3	3	3		3	3		
Platoon Ratio	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00		
PF Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00		
Q1	2.5	42.9		2.4	20.0	3.6	1.8	3.2		5.9	9.0		
kв	0.4	1.0		0.7	0.9	1.1	0.3	0.3		0.5	0.4		
Q2	0.5	10.6		0.2	1.7	0.3	0.1	0.4		0.4	1.4		
Q Average	3.0	53.6		2.6	21.7	3.9	1.9	3.6		6.3	10.4		
Percentile Back of Queue	(95th p	ercenti	ile)	•					•	•	•		
fB%	2.0	1.5		2.0	1.7	2.0	2.0	2.0		1.9	1.8		
Back of Queue	6.0	82.0		5.3	36.4	7.7	4.0	7.2		12.2	19.2		
Queue Storage Ratio													
Queue Spacing	25.0	25.0		25.0	25.0	25.0	25.0	25.0		25.0	25.0		
Queue Storage	0	0		0	0	0	0	0		0	0		
Average Queue Storage Ratio													
95% Queue Storage Ratio													

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HCS+™ DETAILED REPORT General Information Site Information Intersection Forest Hill + Polo Club SW Analyst Area Type All other areas Agency or Co. Simmons & White VOW Jurisdiction Date Performed 11/11/2022 Analysis Year 2026 w/ Improvements Time Period PM Peak 21-196 Farrell West & 21-197 Farrell East - 2nd WBL, Project ID 3rd SBL Volume and Timing Input EB WB NB SB RT TH RT RT RT LT TH LT LT TH LT TH 1 3 0 2 3 1 1 1 0 3 1 0 Number of Lanes, N₁ TR T TR TR Lane Group L L R L L 2207 Volume, V (vph) 62 49 132 2379 64 40 2 112 182 2 70 % Heavy Vehicles, %HV 2 2 2 2 2 2 2 2 2 2 2 2 Peak-Hour Factor, PHF 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Pretimed (P) or Actuated (A) Α Α Α Α Α Α Α Α Α Α Α Α 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Start-up Lost Time, I1 Extension of Effective Green, e 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 Arrival Type, AT 3 3 3 3 3 3 3 3 3 Unit Extension, UE 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 1.000 1.000 Filtering/Metering, I 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Initial Unmet Demand, Qb 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Ped / Bike / RTOR Volumes 0 0 0 10 0 0 60 0 10 0 0 10 Lane Width 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 Parking / Grade / Parking Ν 0 Ν Ν 0 Ν Ν 0 Ν Ν 0 Ν Parking Maneuvers, Nm 0 Buses Stopping, NB 0 0 0 0 0 0 0 0 Min. Time for Pedestrians, Gp 3.2 3.2 3.2 3.2 Excl. Left Phasing EB Only EW Perm 04 SB Only NB Only 07 80 G = G = G = G = 10.0G = 80.0G = 20.0G = 20.0G = 3.0Timing Y = 6.5Y = 7Y = 0Y = 7Y = Y = 6.5Y = Y = Duration of Analysis, T = 0.25Cycle Length, C = 160.0 Lane Group Capacity, Control Delay, and LOS Determination WB SB EB NB LT TΗ RT LT TH RT LT TH RT LT TH RT Adjusted Flow Rate, v 65 2364 139 2504 42 109 192 65 Lane Group Capacity, c 268 2625 868 2537 1059 221 199 603 199 v/c Ratio, X 0.24 0.90 0.16 0.990.00 0.190.550.32 0.33Total Green Ratio, g/C 0.53 0.67 0.52 0.50 0.67 0.130.13 0.13 0.13 Uniform Delay, d₁ 30.8 34.8 30.5 39.5 8.8 62.7 65.8 63.8 63.9 Progression Factor, PF 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 Delay Calibration, k 0.11 0.420.11 0.11 0.110.490.110.15 0.11 Incremental Delay, do 0.5 4.7 0.1 14.9 0.0 0.4 3.2 0.3 1.0 0.0 Initial Queue Delay, d₃ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Control Delay 39.5 31.2 30.6 54.4 8.8 63.2 68.9 64.1 64.8 Lane Group LOS С С D D Α Ε Ε Ε Ε Approach Delay 39.3 53.1 67.3 64.3 Approach LOS D D Ε Ε $X_{c} = 0.77$ Intersection Delay

47.9

Intersection LOS

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General Information

21-196 Farrell West & 21-197 Farrell East - 2nd WBL, 3rd SBL Project Description

Average	Back of	of Queue
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Avorage Back of Queue		EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	
Lane Group	L	TR		L	T	R	L	TR		L	TR		
Initial Queue/Lane	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0		
Flow Rate/Lane Group	65	2364		139	2504	4	42	109		192	65		
Satflow/Lane	401	1857		841	1862	1583	1770	1588		1769	1592		
Capacity/Lane Group	268	2625		868	2537	1059	221	199		603	199		
Flow Ratio	0.2	0.5		0.1	0.5	0.0	0.0	0.1		0.0	0.0		
v/c Ratio	0.24	0.90		0.16	0.99	0.00	0.19	0.55		0.32	0.33		
I Factor	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000	1.000		
Arrival Type	3	3		3	3	3	3	3		3	3		
Platoon Ratio	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00		
PF Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00		
Q1	1.0	34.8		1.5	40.3	0.1	1.7	4.6		2.8	2.6		
kв	0.4	1.0		0.6	0.9	1.0	0.4	0.4		0.4	0.4		
Q2	0.1	5.8		0.1	9.6	0.0	0.1	0.4		0.2	0.2		
Q Average	1.1	40.6		1.6	50.0	0.1	1.8	5.0		3.0	2.8		
Percentile Back of Queue	(95th p	ercenti	ile)		•					•	•		
fB%	2.1	1.6		2.0	1.5	2.1	2.0	2.0		2.0	2.0		
Back of Queue	2.3	63.4		3.3	76.8	0.1	3.6	9.7		6.1	5.7		
Queue Storage Ratio													
Queue Spacing	25.0	25.0		25.0	25.0	25.0	25.0	25.0		25.0	25.0		
Queue Storage	0	0		0	0	0	0	0		0	0		
Average Queue Storage Ratio													
95% Queue Storage Ratio													