July 1, 2024 Revised September 6, 2024 Revised October 11, 2024

Village of Wellington Traffic Engineering Division 12300 Forest Hill Blvd Wellington, FL 33414

RE: Isla Carroll Traffic Performance Standards Statement Palm Beach, Florida Kimley-Horn #140957002

Dear Village:

Kimley-Horn and Associates, Inc. has been retained to perform a traffic impact evaluation for the proposed development located on the northwest corner of the intersection of 120th Avenue and 35th Street in Wellington, Florida (see Figure 1). The existing site has been leased out to the National Polo Club for equestrian events throughout the year. These events often occur outside of the AM (7-9 AM) and PM (4-6 PM) peak hours of traffic that the surrounding road network experiences. Therefore, for trip generation purposes the existing site was not considered to generate any traffic, to maintain a conservative analysis. The proposed plan of development includes the addition of:

- 40 single family dwelling units
- 6 grooms quarters
- Showgrounds/equestrian uses with an average weekend attendance of 60 attendees
- 24 equestrian stables
- 107,011 square feet of air conditioned private space that includes:
 - Event Barn
 - o Clubhouse
 - o Pool
 - o Fitness Center
 - o Spa

It should be noted that all of the uses on site are part of the private club and operate exclusively for members and their guests. Therefore, a significant amount of traffic generated by the site will be internal to the site and be generated by the residential component internal to the site boundaries, with the trips never exiting to the external road network.

The Parcel Control Number (PCN) for the site is: 73-41-44-22-00-000-1030. This analysis was conducted to evaluate compliance with the Vehicular Traffic Performance Standards of the Village of Wellington, as defined in Article 9 of the Wellington Unified Land Development Code. (ULDC)

TRIP GENERATION DETERMINATION

A trip generation determination was prepared to determine the potential impacts of the proposed redevelopment utilizing rates and equations published by the Institute of Traffic Engineers (ITE) in *the 11th Edition Trip Generation Manual*. Traffic generated by the equestrian, stables, and grooms quarters were calculated using similar studies that have been conducted in Wellington, and the relevant excerpts are included in the Appendix, for reference. Table 1 summarizes the trip generation calculations for the proposed development. As shown in Table 1, the proposed redevelopment of the site results in an increase of 1,214 net new daily trips, an increase of 85 net new AM peak hour trips (+43 in, +42 out), and an increase of 114 net new PM peak hour trips (+61 in, +53 out).

Salaria and Association and Association		Daily Trian		AM Peak H	lour		PM Peak Ho	ur
Land Use	Intensity	Daily Trips	Total	In	Out	Total	In	Out
	Pro	posed Scenario	o					
Recreational Community Center	107.011 ksf	745	51	34	17	70	33	37
Single Family Detached	40 DU	400	28	7	21	38	24	14
Stable	24 Stall(s)	39	4	2	2	4	2	2
Grooms Quarters	6 DU	30	2	0	2	3	2	1
	Subtotal	1,214	85	43	42	115	61	54
Pass-By Capture								
Recreational Community Center	0.0%	0	0	0	0	0	0	0
Single Family Detached	0.0%	0	0	0	0	0	0	0
Stable	0.0%	0	0	0	0	0	0	0
Grooms Quarters	0.0%	0	0	0	0	0	0	0
	Subtotal	0	0	0	0	0	0	0
Driveway	Volumes	1,214	85	43	42	115	61	54
Proposed Net External Trips-E	ixisting Net New External Trips	1,214	85	43	42	115	61	54
Land Use	Daily	A	M Peak Hou	r	1.00	PM Peak Hou	<u></u>	Pass By
Recreational Community Center	25% of. Ln(T) = 0.98°Ln(X) + 3.42	25% of 1.91 In	ps/ksl (66% in, 34	% ouţ)	25% of: Ln(T) = 0.	71°Ln(X) + 0.71 (47%	in, 53% out)	0.0%
Single Family Detached	10 trips/DU	0.7 ling	s/DU (26% in, 749	% out)	0.94	hips/DU (63% in, 37	% out)	0.0%
Stable	1 62 trips/Stall(s)	0.15 thps	/Stall(s) (60% in, 4	40% out)	0.15	ips/Stall(s) (60% in, 4	(bio %0)	0.0%
Grooms Quarters	5 trip s/DU	0.36 M	ps/DU (20% in, 80	% out	0.44	hips/DU (65% in. 35	% out)	0.0%

For reference, a weekend peak hour trip generation calculation was prepared to determine the amount of net new traffic generated by the site during average weekend conditions. On an average weekend, it is expected that the site will have 30-60 attendees for the equestrian uses on site. Table 2 summarizes the trip generation calculations during the weekend peak hour for the proposed development. As shown in Table 2 on average, the proposed redevelopment of the site results in an increase of 86 net new weekend peak hour trips (+52 in, +34 out).

Table 2: Average Weekend Trip Generation Calculations

Lond Has		1	Peak Hour	
Land Use	Intensity	Total	In	Out
	Proposed Scenario			
Recreational Community Center	107.011 ksf	28	16	13
Single Family Detached	40 DU	37	23	14
Stable	24 Stall(s)	4	2	2
Grooms Quarters	6 DU	3	2	1
Showgrounds	60 attendee(s)	14	10	4
	Subtotal	86	53	34
Pass-By Capture		121	1.1	1.11
Recreational Community Center	0.0%	0	0	0
Single Family Detached	0.0%	0	0	0
Stable	0.0%	0	0	0
Grooms Quarters	0.0%	0	0	0
Showgrounds	0.0%	0	0	0
	Subtotal	0	0	0
Driveway Vo	lumes	86	53	34
Proposed Net External Trips-Exist	ting Net New External Trips	86	53	34
Land Use	Peak Hour:			Pass By
Recreational Community Center	25% of: 1.07 trips/ksf (54% in, 46%	(tuo		0.0%
Single Family Detached	0.92 trips/DU (63% in, 37%	out)		0.0%
Stable	0.15 trips/Stall(s) (60% in, 40)% out)		0.0%
Grooms Quarters	0.44 trips/DU (65% in, 35%	i out)		0.0%
Showgrounds	0.23 trips/attendee(s) (73% in,	27% out)		0.0%

A weekend peak hour analysis was also conducted to determine the amount of net new traffic generated by the site during peak weekend conditions. Peak weekend conditions for this site are representative of equestrian events that are planned to occur a few times a year, at most quarterly. These events are expected to have 300 attendees for the equestrian uses on site. Table 3 summarizes the trip generation calculations during the weekend peak hour for the proposed development. As shown in Table 3, the proposed redevelopment of the site results in an increase of 141 net new weekend peak hour trips (+92 in, +49 out). It should be noted that the weekend analysis utilizes an attendance of 300 attendees, representative of a quarterly event, for the equestrian uses on site, which is in excess of a standard weekend attendance of 60 attendees. The trip generation potential for the quarterly events was utilized in the following sections for the weekend peak hour analyses.

			Peak Hour	
Land Use	Intensity	Total	In	Out
	Proposed Scenario	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	North Party	
Recreational Community Center	107.011 ksf	28	15	13
Single Family Detached	40 DU	37	23	14
Stable	24 Stall(s)	4	2	2
Grooms Quarters	6 DU	3	2	1
Showgrounds	300 attendee(s)	69	50	19
•	Subtotal	141	92	49
Pass-By Capture				
Recreational Community Center	0.0%	0	0	0
Single Family Detached	0.0%	0	0	0
Stable	0.0%	0	0	0
Grooms Quarters	0.0%	0	0	0
Showgrounds	0.0%	0	0	0
	Subtotal	0	0	0
Driveway Vo	blumes	141	92	49
Proposed Net External Trips-Exis	ting Net New External Trips	141	92	49
Land Use	Peak Hour:			Pass By
Recreational Community Center	25% of: 1.07 trips/ksf (54% in, 46%	out)		0.0%
Single Family Detached	0.92 trips/DU (63% in, 37%	out)		0.0%
Stable	0.15 trips/Stall(s) (60% in, 40	% out)		0.0%
Grooms Quarters	0.44 trips/DU (65% in, 35%	out)		0.0%
Showgrounds	0.23 trips/attendee(s) (73% in,	27% out)	ALC: N	0.0%

Table 3: Quarterly Event - Weekend Trip Generation Calculations

The net new traffic associated with the redevelopment of the site was distributed across the surrounding road network based on complimentary land uses and existing traffic patterns in the area. The assumed traffic distribution is illustrated in Figure 2.





LINK SIGNIFICANCE ANALYSIS

The project traffic was distributed across the links within the surrounding area based on the distribution illustrated in Figure 2, to determine if the addition of project traffic will significantly impact the roadway links, based on the methodology stated in Article 9. Table 4 and Table 5 summarize the weekday AM peak hour and PM peak hour significance analyses, respectively. The LOS D capacity as stated in Article 9 was utilized for a majority of the roadway links. Several links within the vicinity of the project are located within the Equestrian Preserve Area and therefore LOS E volumes were utilized, where applicable.

The weekend peak hour project traffic, for quarterly equestrian events, was distributed across the links within the Village of Wellington to determine if the addition of project traffic will significantly impact the roadway links, based on methodology stated in Article 9. Table 6 summarizes the weekend peak hour significance analysis.

The existing roadway capacities were measured to determine the intersections at which further analysis may be required. Test 1 of Article 9 states, during standard weekday conditions, where the addition of project traffic is significant on a link and the roadway capacity exceeds 80% intersection analysis is required. Additionally, the nearest major intersections from the driveway connections to the surrounding road network are required to be analyzed.

Based on this criteria, further intersection analysis is required at the following intersections:

- 1. 120th Avenue & Project Driveway (Weekday & Weekend)
- 2. 120th Avenue & Lake Worth Road (Weekday)
- 3. Stribling Way & Forest Hill Boulevard (Weekday)
- 4. Stribling Way & Pierson Road (Weekday)
- 5. SR 7 & Stribling Way (Weekday)

Additionally, a weekend peak hour analysis was conducted at the project driveway, for the larger quarterly equestrian events.

Table 4: AM Peak Hour Significance Analysis

			Contraction of the local division of the loc	ALC: NOT	-		AM PE	AK HOUR	YOLUME DE	VELOP.M	ENT & SIC	GMIFIC AN	CE			
			EMSTING	PROJECT		LOS DE		18.E	B PEAK ANA	LYSIS			SBW	B PEAK AN	LYSIS	
ROADWAY	FROM	10	NUMBER OF LANES	tecientic	MB EB JNYOUT?	GEMERAL SYC VOLUME	2072 VOL	M CAP	PROJECT TRAFFIC	IMPACT	Sig?	7072 VOL	% CAP	PROJECT TRAFFIC	IMPACI	Sig?
Lake Worth Road Lake Worth Road Lake Worth Road Lake Worth Road	Gene Misch Way South Shore Boulevard 120th Avenue SR7	South Shore Boulevard 120th Avenue SR7 Lyons Road	21. 21. 4LD 6LD	5% 15% 15%	i o o	880 880 2,000 3,020	•	· ·	2 6 6 6	0.23% 0.68% 0.30% 0.20%	No No No	•	•	2 6 6 6	0.23% 0.68% 0.30% 0.20%	No No No
Forest Hill Boulevard Forest Hill Boulevard Forest Hill Boulevard	Wellington Trace South Shore Boulevard Stribling Way	South Shore Boulevard Stribling Way SR7	4LD 6LD 6LD	5% 5% 15%	i i o	2,000 3,020 3,020	:	:	2 2 6	0.10% 0.07% 0.20%	No No No	÷	: : :	2 2 6	0.10% 0.07% 0.20%	No No No
South Shore Boulevard South Shore Boulevard South Shore Boulevard South Shore Boulevard South Shore Boulevard	50th Street Lake Worth Road Pierson Road Greenview Shores Boulevard Big Blue Trace	Lake Worth Road Pierson Road Greenview Shores Boulevard Big Blue Trace Forest Hill Boulevard	2L 2LD 4LD 4LD 4LD	5% 5% 20% 10% 0%	i i o o	800 840 2,000 2,000 2,000		· · · · · · · · · · · · · · · · · · ·	2 2 8 4 0	0.25% 0.24% 0.40% 0.20% 0.00%	No No No No No		- - - -	2 2 9 4 0	0.25% 0.24% 0.45% 0.20% 0.00%	No No No No
120th Avenue 120th Avenue 120th Avenue	Pierson Road Project Driveway Lake Worth Road	Project Driveway Lake Worth Road 50th Street	21 21 21	70% 30% 0%	0	640 640 640	149 149	23% 23%	29 13 0	4.53% 2.03% 0.00%	Yes Yes No	114 114 -	18% 18%	30 12 0	4.69% 1.88% 0.00%	Yes Yes No
Pierson Road Pierson Road Pierson Road	Ousley Farms Road South Shore Boulevard 120th Avenue	South Shore Boulevard 120th Avenue Simbling Way	2L 2L 2L	10% 30% 40%	i i o	800 800 750	132 132	17% 18%	4 13 17	0.50% 1.63% 2.27%	No Yes Yes	141 141	18% 19%	4 13 17	0.50% 1.63% 2.27%	No Yes Yes
Stribling Way Stribling Way Stribling Way	Forest Hill Boulevard Pierson Road SR7	Pierson Road SR7 Donahue Way	2L 2L 4LD	20% 20% 10%	0 0 0	880 880 2,000	:	:	8 8 4	0.91% 0.91% 0.20%	No No No	799 443 -	91% 50%	9 9 4	1.02% 1.02% 0.20%	Yes Yes No
Greenview Shores Boulevard	South Shore Boulevard	Greenbriar Boulevard	4LD	10%	0	2,000			4	0.20%	No	1.		4	0.20%	No
Big Blue Trace	Wellington Trace	South Shore Boulevard	21.	5%	0	880			2	0.23%	No	· ·	· .	2	0.23%	No
SR7 SR7	Forest Hill Boulevard Shibling Way	Stribling Way Lake Worth Road	8LD 8LD	5% 5%	0	4,040 4,040	:	:	22	0.05%	No No	:	:	2 2	0.05%	No No

Table 5: PM Peak Hour Significance Analysis

I State I and		1	EXISTING			LOS DE	PM PE		VOLUME D		ENT & SIG	SNIFICAN		B PEAR AN	veide	
ROADWAY	FROM	10	NUMBER OF LANES	PROJECT	NBEB IN OUT?	GENERAL SVC VOLUME	2022 VOL	No CAP	PROJECT TRAFFIC		Sig?	2022 VOL	% CAP.	PROJECT	MPACT	Sig?
Lake Worth Road Lake Worth Road Lake Worth Road Lake Worth Road	Gene Misch Way South Shore Boulevard 120th Avenue SR7	South Shore Boulevard 120th Avenue SR7 Lyons Road	2L 2L 4LD 6LD	5% 15% 15%	i i o	880 880 2,000 3,020	457	52%	3 9 8 8	0.34% 1.02% 0.40% 0.26%	No Yes No No		• • • •	3 8 9 9	0.34% 0.91% 0.45% 0.30%	No No No
Forest Hill Boulevard Forest Hill Boulevard Forest Hill Boulevard	Wellington Trace South Shore Boulevard Stribling Way	South Shore Boulevard Stribling Way SR7	4LD 6LD 6LD	5% 5% 15%	i i o	2.000 3.020 3.020	÷	•	3 3 8	0.15% 0.10% 0.26%	No No No		19. 10.	3 3 9	0.15% 0.10% 0.30%	No No No
South Shore Boulevard South Shore Boulevard South Shore Boulevard South Shore Boulevard South Shore Boulevard	50th Street Lake Worth Road Pierson Road Greenview Shores Boulevard Big Blue Trace	Lake Worth Road Pierson Road Greenview Shores Boulevard Big Blue Trace Forest Hill Boulevard	2L 21D 41D 41D 41D	5% 5% 20% 10% 0%	i i 0 0	800 840 2,000 2,000 2,000	1. 1. 1210A		3 3 11 5 0	0.38% 0.36% 0.55% 0.25% 0.00%	No No No No		-	3 3 12 6 0	0.38% 0.36% 0.60% 0.30% 0.00%	No No No No
120th Avenue 120th Avenue 120th Avenue	Pierson Road Project Driveway Lake Worth Road	Project Driveway Lake Worth Road 50th Street	2L 2L 2L	70% 30% 0%	0 1 1	640 640 640	274 274	43% 43%	37 18 0	5.78% 2.81% 0.00%	Yes Yes No	168 168	26% 26%	43 16 0	6.72% 2.50% 0.00%	Yes Yes No
Pierson Road Pierson Road Pierson Road	Ousley Farms Road South Shore Boulevard 120th Avenue	South Shore Boulevard 120th Avenue Simbling Way	2L 2L 2L	10% 30% 40%	1	800 800 750	209 209	26% 28%	6 18 21	0.75% 2.25% 2.80%	No Yes Yes	214 214	27% 29%	5 16 24	0.63% 2.00% 3.20%	No Yes Yes
Stribling Way Stribling Way Stribling Way	Forest Hill Boulevard Pierson Road SR7	Pierson Road SR7 Donahue Way	2L 2L 4LD	20% 20% 10%	0 0 0	880 880 2,000	610 743	69% 84%	11 11 5	1.25% 1.25% 0.25%	Yes Yes No	651 670	74% 76%	12 12 6	1.36% 1.36% 0.30%	Yes Yes No
Greenview Shores Boulevard	South Shore Boulevard	Greenbriar Boulevard	4LD	10%	0	2,000		8	5	0.25%	No	2	13	6	0.30%	No
Elg Blue Trace	Wellington Trace	South Shore Boulevard	21.	5%	0	880	•	. **	3	0.34%	No	1.0	аж.,	3	0.34%	No
SR7 SR7	Forest Hill Boulevard Shibling Way	Stribling Way Lake Worth Road	8LD 8LD	5% 5%	0	4,040 4,040	:	1.1	3	0.07%	No No		1	3	0.07%	No No

the states and the		WITCH STREET					WEEKEN	D PEAK HO	OUR VOLUME	DEVELOP	MENT & S	SIGNIFICA	NCE			
			EMSTING	PROJECT		LOSDE		NB EE	B PEAK ANA	YSIS			SBM	B PEAK ANA	LYSIS	
ROADWAY	FROM	το	NUMBER OF LANES	ASSIGN #EH	HE EB	GENERAL SVC VOLUME	2022 VOL	S CAP	PROJECT TRAFFIC	IMPACT	Sig?	2022 VOL	S CAP	PROJECT TRAFFIC	% IMPACT	Sg
ake Worth Road	Gene Misch Way	South Shore Bouleverd	21	5%	i	880			5	0.57%	No			2	0.23%	No
ake Worth Road	South Shore Boulevard	120th Avenue	2L	15%	1	880	423	48%	14	1.59%	Yes	· ·	1.1	7	0.80%	No
ake Worth Road	120th Avenue	SR7	41.0	15%	0	2,000			7	0.35%	No	1.1	· ·	14	0.70%	No
ake Worth Road	SR7	Lyons Road	610	15%	0	3,020		1.8	7	0.23%	No	1 E .	· ·	14	0.46%	No
orest Hill Boulevard	Wellington Trace	South Shore Boulevard	410	5%	1	2,000	1 . I	÷.	5	0.25%	No	1 . D	· · ·	2	0.10%	No
orest Hill Boulevard	South Shore Boulevard	Stribing Way	6LD	5%	i	3,020	1.0		5	0.17%	No	1 · · ·	· ·	2	0.07%	N
Forest Hill Boulevard	Stribling Way	SR7	6LD	15%	0	3,020	1.2	6.8	7	0.23%	No		· ·	14	0.46%	No
outh Shore Boulevard	50th Street	Lake Worth Road	2L	5%	1	800			5	0.63%	No			2	0.25%	No
outh Shore Boulevard	Lake Worth Road	Pierson Road	2LD	5%		840			5	0.60%	No			2	0.24%	N
outh Shore Boulevard	Pierson Road	Greenview Shores Boulevard	4LD	20%	ò	2.000	· .	1	10	0.50%	No	· ·		18	0.90%	N
outh Shore Boulevard	Greenview Shores Boulevard	Big Blue Trace	4LD	10%	0	2,000	Ι.	1 i i i i	5	0.25%	No		1.1	9	0.45%	N
outh Shore Boulevard	Big Blue Trace	Forest Hill Bouleverd	4LD	0%	o	2,000			Ó	0.00%	No	· ·	· ·	0	0.00%	No
120th Avenue	Pierson Road	Project Driveway	21	70%	0	640	689	108%	34	5.31%	Yes	543	85%	64	\$0.00%	Ye
20th Avenue	Project Driveway	Lake Worth Road	21	30%	i	640	621	97%	28	4.38%	Yes	477	75%	15	2.34%	Ye
20th Avenue	Lake Worth Road	50th Street	21.	0%	i.	640	•		0	0.00%	No	•	•	0	0.00%	No
ierson Road	Ousley Farms Road	South Shore Boulevard	21	10%	i	750	228	30%	9	1.20%	Yes	· .	I	5	0.67%	N
ierson Road	South Shore Boulevard	120th Avenue	2L	30%	i	750	255	34%	28	3.73%	Yes	254	34%	15	2.00%	Ye
Pierson Road	120th Avenue	Stribling Way	2L	40%	0	750	255	34%	20	2.67%	Yes	254	34%	37	4.93%	Ye
tribling Way	Forest Kill Boulevard	Pierson Road	2L	20%	0	880	496	56%	10	1.14%	Yes	597	68%	18	2.05%	Ye
Stribling Way	Pierson Road	SR7	2L	20%	0	880	697	79%	10	1.14%	Yes	484	53%	18	2.05%	Ye
Stribling Way	SR7	Donahue Way	4LD	10%	0	2,000	•	•	5	0.25%	No	· ·	· ·	9	0.45%	N
reenview Shores Boulevard	South Shore Boulevard	Greenbriar Boulevard	4LD	10%	0	2,000	-14	2	5	0.25%	No	*	s	9	0.45%	N
lig Blue Trace	Wellington Trace	South Shore Bouleverd	2L	5%	0	880			2	0.23%	No	- 20	1.1	5	0 57%	N
R7	Forest Hill Bouleverd	Stribling Way	8LD	5%		4,040			2	0.05%	No			5	0.12%	N
R7	Stribling Way	Lake Worth Road	8LD	5%		4,040		1.1	2	0.05%	No		1.4	5	0.12%	N

Table 6: Quarterly Event - Weekend Peak Hour Significance Analysis

LINK CAPACITY ANALYSIS

The surrounding roadways identified in Table 4 and Table 5 that are expected to be significantly impacted by the projected traffic were evaluated using the Test 1 criteria defined in Article 12 of the Palm Beach County Unified Land Development Code. The following tables summarize the peak hour capacity analyses on the significantly impacted roadway links during weekday and weekend conditions. Traffic volumes from the year 2022 were obtained from the Wellington Speed and Count study conducted by Pinder Troutman Consulting and were collected during peak season conditions. Committed development project traffic was included for the Professional Center at Wellington, Wellington North, Wellington South, and Wellington Aquatic Center projects. Applicable traffic volume data and committed development data is included in the Appendix, for reference.

Table 7 and Table 8 illustrate the results of the weekday AM and PM peak hour analyses. As illustrated in these tables no roadway links are expected to exceed their applicable LOS capacities.

Table 9 illustrates the results of the weekend peak hour analysis, for quarterly equestrian events. As illustrated in this table all of the links are expected to operate at their respective LOS D/E capacities and are expected to operate acceptably with the addition of project traffic, with the exception of 120th Avenue on weekends. However, this is considered a background deficiency not caused by the addition of project traffic and would be over capacity without the addition of project traffic.

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Kimley»Horn

Table 7: Weekday AM Peak Hour Capacity Analysis

Committed Traffic -

Committee Traffic - Option #1

					10201																		
			Lanes	Lanes Facility Type	Service	HILE CHON	Impacted?	COUNT FOR	Tutte	Traffic	Traffic	plus	Growth Rate	Historic Growth	Historic	Committed	Traffic	Tatte	Thattic	Total	Standard	Der	
	Libm	01			Volume				Volume	(from TPS)	Growth	1.0%	(from TPS)	or 1%	Growth	Traffic				Tratte			
120h Avenue	Person Read	Project Driveway	ĸ	Chees II	640	NB/EB	Yes	2022	149	0	6	6	1 29%	1.29%	12	12	45	37	52	212	Yes	ł	043
			7	Chaes II	640	SBMB	Yes	2022	114	0	7	1	1 29%	1 29%	6	6	8	12	8	266	Yes	3	045
120th Avenue	Project Driveway	Late Worth Road	2	Class II	640	NB/EB	Yes	2022	149	•	6	σ,	1 29%	1.29%	12	12	42	\$	13	292	Yes	10	0.41
			31	Class II	640	SBMB	Yes	2022	114	0	7	1	1 29%	1.29%	6	6	4	z	12	199	Yes		0.31
Person Road	South Shore Boulevard	120th Avenue	2	Ctass II	900	NB/EB	Yes	2022	132	0	60	8	1 29%	1 29%	11	11	54	62	13	239	Yos	-	030
			ĸ	Class ()	900	SBMB	Yes	2022	141	0	6	9	1 29%	1 29%	11	11	53	57	13	281	Yes		0.35
Promon Road	120th Avenue	Strbling Wby	ಸ	Class II	750	NB/EB	Yess	2022	132	0	8	60	1.29%	1 29%	11	=	8	105	13	361	Yess		0.48
			N	Class II	750	SBMB	Yes	2022	141	0	6	6	1 29%	1 29%	=	=	66	139	13	401	Yes	8	0.53
Sribing Way	Forest Hill Bouloward	Person Road	ĸ	Class II	880	NB/EB	No	3	24	3	8		4			•	×	2				÷	2
			7	Class II	880	SBMB	Yes	2023	712	16	36	8	1.29%	1 29%	47	52	52	98	6	861	Yes		0.98
Strbing Way	Planson Road	SR7	2	Class II	880	NB/EB	Wo	8	40		ž		*	2	1		*		10	¥3	•		2
			2	Class II	880	SBMB	Yes	2023	464	29	24	3	1 29%	129%	31	3	52	25	6	909	Yees	4	0.69

Table 8: Weekday PM Peak Hour Capacity Analysis

														0									
	Contraction of the local division of the loc			Committed						Committee	Committed Traffic - Option #1	00.01	Committee	Committed Traffic - Option #2	2	Utilized						Bace.	
fenbeog					105/D/E	-	Signationally	Constant of the local division of the local	Year	Committed		Committed	Historic	Rar	11th	a lanmark	Tellington W	Panington 1	Project	2028 A	Meets g	1	three as
			Lance	Eacility Type	Service	THE COURSE	Impacted?	COMIN 1 CM	Tratfic	Traffic	frattee.	plus 6	Srowth Rate H	Historic Growth	Historic .	Committee		Trattic	trathe:	lotal 51	(iandaro	8	
	Mon				Volume				Volume	(from 1PS)	Growth		(tram IPS)		Growth	trattec				Trattic			
Late Worth Road	South Shore Bouleward	120th Avienue	R.	Class	880	NB/EB	Yes	2022	467	5	28	g	1 29%	1.29%	37	37	32	20	6	615	Yos		0.70
			M.	Class I	880	Seves	No	2022	14		-			1	-				1	4		a	4
120th Avenue	Piorson Road	Project Onviewary	31	Class II	640	NB/EB	Yes	2022	274	•	12	17	1 29%	1.29%	22	z	ន	75	37	471	Yos		0.74
			7	Cites II	640	SBMB	Yes	2022	168	0	10	10	1 29%	1 29%	13	13	86	66	13	386	Yos		0.60
120th Awenue	Project Driveway	Luke Worth Road	77	Ctass II	640	NB/EB	Yes	2022	274	0	17	17	1 29%	1 29%	22	22	4	40	18	358	Yes		0.56
			2	Cites II	640	SBMB	Yes	2022	168	0	10	10	1 29%	1 29%	13	13	ş	45	16	247	Yes		0.39
Prerson Road	South Share Boulevard	120th Avenue	77	Chass II	900	NB/EB	Yes	2022	209	0	13	13	1 29%	1 29%	11	12	78	40	18	362	Yes	(e)	0.45
		and a state	ĸ	Chass II	800	SBMB	Yes	2022	214	0	13	13	1 29%	1 29%	17	17	86	45	16	378	Yes		0.47
Prerson Road	1208h Avienue	Stribhing Way	ĸ	Class II	750	NB/EB	Yess	2022	509	•	13	13	1.29%	1 29%	17	17	134	60	21	441	Yes	i E	0.59
			7	Class II	750	SBMB	Yes	2022	214	0	13	13	1 29%	1 29%	17	17	182	53	24	490	Yes		90
Stribling Way	Forest H& Boulevard	Porson Road	4	Cossi	880	NB/EB	Yes	2023	762	12	39	51	1 29%	1 29%	5	51	68	30	Ħ	922	No	Yes	1.05
			ĸ	Cites I	880	SBMB	Yes	2023	573	12	23	41	1.29%	1 29%	86	41	55	56	12	707	Yes		0.00
Sirbling Way	Planson Road	SRI	77	Class	880	NBAEB	Yes	2024	827	39	34	2	1 29%	1 29%	4	13	69	30	11	1,010	No.	Yes	1.16
			2	Cites I	880	SBMB	Yes	2024	661	39	26	65	1 29%	1 29%	м	65	56	26	12	810	Yes		0.92

Weilington Committed Fraffic andulos project traific from Weilington North, Weilington South, Professional Canter at Weilington, and Aquatic

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Table 9: Quarterly Event - Weekend Peak Hour Capacity Analysis

Page 12

LOS DE backing Allocation Sagnutaruly log backing allocation Verter allocation Ver					Committed					Count	1.29						Back-				-
Hola Notation Notation <th< td=""><td>Yewbeon</td><td></td><td></td><td>Lanes</td><td>Facility Type</td><td>LOS DIE Service</td><td>Direction</td><td>Significantly Impacted?</td><td>Count Year</td><td>Year Traffic</td><td>Committed Traffic</td><td>Wellington Committed Traffic</td><td>Wellington Athletics Traffic</td><td>Project Traffic</td><td>2028 Total</td><td>Standard</td><td>ground Def</td><td>Future vic N</td><td>Needed for Def</td><td>Imp apacity</td><td>Meets Standard</td></th<>	Yewbeon			Lanes	Facility Type	LOS DIE Service	Direction	Significantly Impacted?	Count Year	Year Traffic	Committed Traffic	Wellington Committed Traffic	Wellington Athletics Traffic	Project Traffic	2028 Total	Standard	ground Def	Future vic N	Needed for Def	Imp apacity	Meets Standard
add Sunt Shore Bouleward 120n Avenue 21 Clease 1 800 NBEB Yes 2022 423 34 56 14 566 Parano Raud Project/Privewary 21 Casse 1 600 SUMB No - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -		riom	10			Volume				Volume	Glowth				Traffic	27					27
21 Classifier 800 SBMS No · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·	Lake Worth Road	South Shore Boulevard	120th Avenue	21	Cless II	880	NBAEB	Yes	2022	423	34	69	28	14	566	Yets	à	0.64			
Parton (fauld Project (hyveney) 21. Clease II 600 NBEB Yes 2023 6.89 6.6 6.7 22 34 223 Project (hyveney) 21. Clease II 6.00 SUM6 Yes 2023 5.43 36 61 82 64 812 Project (hyveney) Lale Worth Road 21. Clease II 640 SUM5 Yes 2023 671 24 53 68 64 812 Cuelly Farms Road 21. Clease II 540 SUM5 Yes 2023 671 23 16 16 810 810 South Showe Bouldward 21.0 Clease II 750 SUM6 Yes 2022 255 20 16 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <t< td=""><td></td><td></td><td></td><td>21</td><td>Class II</td><td>880</td><td>SBMB</td><td>No</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				21	Class II	880	SBMB	No													
Register for the form of the fo	120th Avenue	Pierson Road	Project Driveway	21	Class II	640	NB/EB	Yes	2023	689	46	67	92	34	928	No	Yes	1.45	4	1,288	Yes
Project Driveney Lete Work Road 21. Clease II 640 NBEB Yea 2023 621 61 63 23 24 53 26 810 Outshy FarmsRoad South Store Boukined 21. Clease II 750 NBEB Yea 2023 417 32 81 56 660 Outshy FarmsRoad South Store Boukined 21. Clease II 750 SBWB Ne 2022 253 19 163 15 660 South Store Boukined 120 h Avenue 21. Clease II 750 SBWB Ne 2022 254 20 73 26 33 South Store Boukined 120 h Avenue 21. Clease II 750 SBWB Yea 2022 254 20 73 26 43 TOTO Normue 21. Clease II 750 SBWB Yea 2022 254 20 75 43 Forest Hill Boukined Person Road 21.				21	Class II	640	SBMB	Yes	2023	543	36	81	88	64	812	No	Yes	127	4L	1,288	Yes
21 Classifier 6/0 SWR Year 2023 4/7 32 6/1 55 15 6/0 Cuality FarmsRoad South Shore Boulevard 21 Classifier 750 SBMB Year 2023 273 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <	120th Avenue	Project Driv eway	Leke Worth Road	2L	Class II	640	NBVEB	Yes	2023	621	41	67	83	28	810	No	Yes	1.27	4	1,288	Yes
Outloy Farms Road South Shore Boukmard 21 Clease II 750 NBE Yea 2022 228 18 168 18 8 381 South Shore Boukmard 21. Clease II 750 SUMB No - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -				2L	Cless II	640	SBMB	Yes	2023	477	32	81	88	15	660	No	Yes	1.03	4L	1,288	Yes
21 Cleanel 750 SUMB No · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · <	Pierson Road	Ousley Farms Road	South Shore Boulevard	2L	Class II	750	NBVEB	Yes	2022	228	18	108	18	6	381	Yes		0.51			
South Shore Bouleverd 1200 Avenue 21 Clease II 750 NBEB Yea 2022 255 20 42 53 28 388 21 Clease II 750 SSWB Yea 2022 254 20 16 73 24 23 433 120h Avenue Stabling Wey 21 Clease II 750 SWB Yea 2022 254 20 16 73 423 120h Avenue Stabling Wey 21 Clease II 750 SWB Yea 2022 255 20 161 70 37 542 Forest Hill Bouleverd Person Road 21 Clease I 850 Nes 2023 547 40 37 10 37 512 542 Forest Hill Bouleverd Person Road 21 Clease I 850 Nes 2023 547 40 37 10 542 Forest Hill Bouleverd Stat 202 547				21	Cless II	750	SBMB	No					ł				2	·			
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120h Avenue Sheling Wey 2L Clease II 750 NB/EB Yes 2022 255 20 116 73 20 484 120h Avenue Sheling Wey 2L Clease II 750 SB/HB Yes 2022 254 20 161 70 37 542 Forest Ha Bouleverd Person Road 2L Clease I 800 NB/EB Yes 2022 244 70 37 10 646 21 Clease I 800 SB/HB Yes 2023 597 40 81 70 37 10 646 Person Road 2L Clease I 800 NHE Yes 2023 597 40 81 71 Person Road S71 2L Clease I 800 NHE Yes 2024 697 37 70 37 10 646 Person Road Z1 Clease I 800 NHE Yes 2024 <td< td=""><td></td><td></td><td></td><td>31</td><td>Cless II</td><td>750</td><td>SBMB</td><td>Yes</td><td>2022</td><td>254</td><td>20</td><td>52</td><td>55</td><td>15</td><td>423</td><td>Yes</td><td></td><td>0.56</td><td></td><td></td><td>,</td></td<>				31	Cless II	750	SBMB	Yes	2022	254	20	52	55	15	423	Yes		0.56			,
21 Classi II 750 SB/HB Yes 2022 254 20 161 70 37 542 Forest Hill Boulaved Pleason Road 21. Classi II 830 NBEB Yes 2023 496 33 70 37 10 646 21. Classi II 830 NBEB Yes 2023 496 33 70 37 10 646 Person Road 21. Classi II 830 NFB Yes 2023 597 40 81 71 37 10 646 Person Road S87 22. Classi II 820 NBEB Yes 2024 697 37 10 646	Pierson Road	120th Avenue	Strbfing Way	21	Cless II	750	NBVEB	Yes	2022	255	20	116	73	20	484	Yes	4	0.65			
Forest Hall Bouldwreid Preson Road 21. Classi 850 INBEB Yes 2023 456 33 70 37 10 646 Forest Hall Bouldwreid Preson Road 21. Classi 830 Xes 2023 597 40 81 37 10 646 Preson Road 21. Classi 830 Nes 2023 597 40 81 71 Preson Road SR Yes 2024 697 37 70 37 10 651			A S GHOLL	21	Class II	750	SBMB	Yes	2022	254	20	161	70	37	542	Yes	4	0.72	,		
21 Clease 680 SBMB Yes 2023 597 40 61 35 71 Parson Road SR7 22. Cleasi 860 NB/EB Yes 2024 697 37 70 37 10 851	Strbling Wey	Forest Hill Bouleverd	Pierson Road	77	Cless !	880	NBVEB	Yes	2023	496	33	70	37	10	646	Yes	14	0.73		•	
Person Road SR7 21. Cless 1 880 NBEB Yes 2024 697 37 70 37 10 651				2L	Class I	880	SBMB	Yes	2023	265	40	81	35	18	1/1	Yes		0.88			
	Strbling Way	Pierson Road	SR7	2L	Class I	880	NBVEB	Yes	2024	269	37	20	37	10	851	Yes	4	0.97	•		,
Cless 880 SB/MB Yes 2024 464 24 81 35 18 522				2L	Cless I	880	SBMB	Yes	2024	464	24	81	35	18	622	Yes	•	071	•	•	

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WEEKDAY INTERSECTION ANALYSIS

The five intersections listed previously were analyzed based on the criteria stated in Article 9 of the Wellington Unified Land Development Code using *Synchro 12* software. Palm Beach County traffic count data was utilized where available. Existing count data was collected on at intersections where data was missing from the County. Furthermore, count data utilized collected as part of the Wellington South traffic analysis was utilized in the analysis. It should be noted that an equestrian show was occurring at the same time counts were collected, in March of 2023, and therefore the count data collected is representative of peak conditions for both weekday and weekend peak hours. Existing count data is included in the Appendix, for reference.

The following three scenarios were analyzed at each of the intersections:

- Existing Year (2023)
- Background Year (2028)
- Future Year (2028)

The existing count data was collected during peak season and therefore no peak season correction factor (PSCF) was applied. To develop background year traffic volumes existing volumes were grown over a five year period using a 1.29% annual compounding growth rate. This 1.29% annual compounding growth rate was used based on growth rate calculations conducted for the Wellington South project. The Palm Beach County TPS database was utilized to determine the amount of committed development traffic to include, if available. Furthermore, project traffic from the Professional Center at Wellington, Wellington North, Wellington South, Wellington Aquatic Center, Wellington Sports Academy at Village Park, and POD D-2 Orange Point PUD projects were included in the analyses. Committed development data for these projects is included in the Appendix. Project traffic was added to the background year traffic volumes to determine future year traffic volumes at each of the intersections.

The following tables summarize the results of the Synchro analyses for weekday peak hour conditions. Volume development worksheets, *Synchro* output worksheets, and Palm Beach County signal timing data is also included in the Appendix, for reference.

		Control	BA	AM Pea	k Hour	PM Peal	k Hour
#	Intersection	Туре	Movement	Delay (s)	LOS	Delay (s)	LOS
	A REAL PROPERTY AND A REAL		EB		10.4		
			WB	9.4	Α	12.0	В
1	120th Avenue & Driveway	TWSC	NB	-			-
		1	SB	196 -			
		1.1.1.1.1.1.1.1	Overall	•			
		1 T H53 13	EB	- E. F. L. V	1.1		
		2	WB	-	-		-
2	120th Avenue & Lake Worth Road	TWSC	NB	30.6	D	87.7	F
		1.1.1	SB	25.0	D	87.8	F
		Constantine of the	Overall				
		(1) (2) (2) (1)	EB	12.3	В	30.8	С
			WB	6.9	Α	23.8	С
3	Stribling Way & Forest Hill Boulevard	Signalized	NB	74.5	E	63.9	E
			SB		-		
		S	Overall	13.9	В	32.8	С
			EB	9.2	Α	10.2	В
			WB	-	1 - E.S.		- 1
4	Stribling Way & Pierson Road	Roundabout	NB	6.5	А	19.8	С
		1.00	SB	9.5	А	10.4	В
		1.004.17	Overall	8.6	Α	14.5	В
		20 0 0 0	EB	153.0	F	70.5	E
		1.00	WB	423.0	F	229.2	F
5	SR7 & Stribling Way	Signalized	NB	39.8	D	89.1	F
		1.5	SB	54.3	D	78.0	Е
		1	Overall	89.0	F	91.6	F

Table 10: Existing Year Weekday Peak Hour Synchro Analyses

		Control		AM Pea	k Hour	PM Peal	k Hour
¥	Intersection	Туре	Movement	Delay (s)	LOS	Delay (s)	LOS
			EB			-	
		0.000	WB	12.7	В	38.0	E
	120th Avenue & Driveway	TWSC	NB				
			SB				
			Overall			-	
		5	EB	95	•		· · ·
		1.00	WB		-		-
2	120th Avenue & Lake Worth Road	TWSC	NB	85.0	E	\$1241.2	F
			SB	77.2	F	\$774.02	F
		3 - C - C	Overall	- 10.	10. July 10		10.0
	The second state of the se	3	EB	18.3	В	40.7	D
			WB	13.2	В	30.8	С
3	Stribling Way & Forest Hill Boulevard	Signalized	NB	75.2	Е	64.8	E
			SB		-	· · ·	8 1
		3 - 6 - 7	Overall	20.3	С	40.0	D
			EB	11.5	В	14.1	В
			WB		-		
	Stribling Way & Pierson Road	Roundabout	NB	8.4	А	58.0	F
			SB	12.4	В	13.8	В
			Overall	11.1	В	31.9	D
1			EB	150.0	F	96.6	F
			WB	271.1	F	156.7	F
5	SR7 & Stribling Way	Signalized	NB	34.7	С	88.0	F
			SB	66.1	E	184.1	F
		3 gr	Overall	76.9	Е	127.6	F

Table 11: Background Year (2028) Weekday Peak Hour Synchro Analyses

#	Intersection	Control Type	Movement	AM Peak Hour		PM Peak Hour	
				Delay (s)	LOS	Delay (s)	LOS
			EB	15.2	С	42.2	E
	120th Avenue & Driveway	TWSC	WB	13.1	В	46.4	E
1			NB	- 14-		1.1.1	
			SB		U		-
			Overall			-	
	120th Avenue & Lake Worth Road	TWSC	EB	P 2			-
			WB	-			-
2			NB	93.2	F	\$2214.0	F
			SB	94.7	F	\$961.3	F
			Overall			-	-
	Stribling Way & Forest Hill Boulevard	Signalized	EB	18.7	В	40.7	D
			WB	13.7	В	32.1	С
3			NB	75.2	Е	65.1	E
			SB	in a star	-	-	
			Overall	20.8	С	40.7	D
	Stribling Way & Pierson Road		EB	11.8	В	14.5	В
		Roundabout	WB	-		-	-
4			NB	8.7	Α	65.0	F
			SB	12.6	В	14.1	В
			Overall	11.3	В	34.9	D
5	SR7 & Stribling Way	Signalized	E8	149.4	F	97.6	F
			WB	269.1	F	155.5	F
			NB	34.7	С	88.5	F
			SB	66.9	E	184.1	F
			Overall	77.2	E	127.9	F

Table 12 Future Year (2028) Weekday Peak Hour Synchro Analyses

As illustrated in Table 12 the intersections significantly impacted by the addition of project traffic are expected to operate at or above their respective LOS criteria (LOS for signalized intersections, LOS E for unsignalized intersections and intersections within the Equestrian Preserve Area) during the weekday AM and PM peak hours, with the exception of:

- 120th Avenue & Lake Worth Road (AM & PM peak hour)
- SR7 & Stribling Way (AM & PM peak hour)

However the deficiencies for the intersections of 120th Avenue & Lake Worth Road and SR7 & Stribling Way occur during the background year without the addition of project traffic. According to Florida State Statute 163.3180, because the facilities identified exceed their respective LOS under background conditions, and because the improvements required to address future background conditions will also provide sufficient capacity for the proposed project traffic, the project is not responsible for the proportionate share of these improvements. No feasible improvements are available for the intersection of SR7 & Stribling Way, presently.

QUARTERLY EVENT - WEEKEND INTERSECTION ANALYSIS

The project driveway was analyzed during peak hour weekend conditions for one of the larger equestrian events planned as part of the site. Existing count data was utilized from the Wellington Aquatic Center traffic study and was collected on September 6, 2023.

The following three scenarios were analyzed for the intersection:

- Existing Year (2023)
- Background Year (2028)
- Future Year (2028)

The existing count data was collected outside of peak season and therefore a peak season correction factor (PSCF) was applied. To develop background year traffic volumes existing volumes were grown over a five year period using a 1.29% annual compounding growth rate. This 1.29% annual compounding growth rate was used based on growth rate calculations conducted for the Wellington South project. Furthermore, project traffic from the Professional Center at Wellington, Wellington North, Wellington South, Wellington Aquatic Center, Wellington Sports Academy at Village Park, and POD D-2 Orange Point PUD projects were included in the analyses. Committed development data for these projects is included in the Appendix. Project traffic was added to the background year traffic volumes to determine future year traffic volumes at each of the intersections. Table 13, Table 14, and Table 15 summarize the Synchro analyses results for the existing, background, and future conditions, respectively. Although the delay at the stop-control approach of the intersection will not meet the Level of Service D standard, the volume-to-capacity ratio is below 1.0 which indicates acceptable operation. It is recommended to monitor the intersection and provide special event control when traffic volumes are anticipated to be higher (such as during special events).

Table 13 Existing Weekend Peak Hour Synchro Analyses

#	Intersection	Control Type	Maurant	Peak Hour	
			Movement	Delay (s)	LOS
	120th Avenue & Driveway	TWSC	EB	- 18 C	-
			WB	19.5	С
1			NB		
1,01			SB	-	1
			Overall	-	-

		Control	Mexamont	Peak Hour	
#	Intersection	Туре	Movement	Delay (s)	LOS
	120th Avenue & Driveway	TWSC	EB	-	-
			WB	\$374.5	F
1			NB		1 E - 1
			SB		
			Overall		-

Table 14 Background Year (2028) Weekend Peak Hour Synchro Analyses

#

1

ŧ	Intersection	Control Type	Movement	Peak Hour	
				Delay (s)	LOS
	120th Avenue & Driveway	TWSC	EB	\$398.7	F
			WB	\$362.9	F
			NB	-	-
			SB	-	-
			Overall	-	-

Table 15: Future Year (2028) Weekend Peak Hour Synchro Analyses - Quarterly Event

DRIVEWAY CLASSIFICATION

Access to the site is proposed to be maintained via one main driveway on 120th Avenue and one service access driveway on 120th Avenue. Both driveways operate as full-access driveways. According to the Palm Beach County "Guide to Parking Lot and Street Access Design Criteria and Standards", it is necessary to classify project driveways as minor, intermediate, or major according to the following criteria:

- Minor Services a maximum daily volume of 500 vehicles.
- Intermediate Services a daily volume ranging from 501 to 2000 vehicles.
- Major Services a daily volume of more than 2000 vehicles.

Figure 3 illustrates the expected project traffic driveway volumes on weekdays for the site driveways after full buildout. Using the above criteria, the main driveway is classified as intermediate and the service driveway is classified as minor. Figure 4 illustrates the project traffic driveway volumes on weekends during events.

TURN LANE REQUIREMENTS

The Palm Beach County "Guide to Parking Lot and Street Access Design Criteria and Standards" provides guidance on the provisions of turn lanes at site driveways. According to the standards noted in this document, the volume thresholds for providing exclusive turn lanes are as follows

- Right turn lane 75 peak hour right turns, with driveway volumes that exceed 1,000 trips per day, and average daily traffic volumes that exceed 10,000 vehicles per day.
- Left turn lane 30 peak hour left turns

Based on these requirements, and the configuration of the existing driveways the need for exclusive turn lanes are not met at the project driveway. Nonetheless, due to the traffic volumes on 120th Avenue and the two-lane cross-section of the roadway without median, a northbound left-turn lane is recommended at the main driveway entrance on 120th Avenue.

PROPORTIONATE SHARE CALCULATION

Although not required, a proportionate share calculation was conducted for the intersection of 120th Avenue & Lake Worth Road to determine the project's impact on Village-proposed improvements to the intersection. The intersection is not projected to operate at an acceptable level of service with background conditions without the addition of project traffic. Therefore, it was necessary to determine the potential total capacity of the intersection with the inclusion of the proposed north approach left-turn lane. The background scenario traffic volumes were reduced and analyzed in *Synchro 12* to calculate the maximum traffic volume at which the intersection will operate at an acceptable level of service with the existing stop control and existing lane configuration. By reducing each approach volume by 33.1% it was determined that the threshold of capacity for this intersection is 1,572 total vehicles under two-way stop-controlled conditions.

For the intersection to operate at an acceptable level of service during background and future year conditions, it is necessary to signalize the intersection. To determine the maximum intersection volume at which the intersection will operate with an acceptable level of service, background scenario traffic volumes were increased and analyzed using *Synchro 12* software. By increasing each approach volume by 18% it was determined that the threshold of capacity for this intersection is 2,776 total vehicles under signal control conditions.

The project is projected to add 34 vehicles PM peak hour vehicles at this intersection. Comparing the project's trips to the increase in capacity due to signalization, as calculated above, the proportionate share contribution to the signalization of the intersection is 2.82% Proportionate share calculations are included in the Appendix, for reference.





CONCLUSION

Kimley-Horn and Associates, Inc. has prepared a traffic study to evaluate the potential impact of redevelopment for the project site located at the northwest corner of the intersection of 120th Avenue and 35th Street in Wellington, Florida. No credit was taken for existing traffic generated by the site. However, the site currently generates traffic during events hosted by the National Polo Club. The proposed redevelopment plan is expected to include the addition of 40 single family dwelling units, 6 grooms quarters, 107,011 square feet of air conditioned private recreational space, and equestrian showgrounds uses with an average weekday attendance of 28 attendees and an average weekend attendance of 60 attendees. The proposed site will operate as a private club and the proposed uses on site will operate exclusively for members of the club and their guests.

As shown in the analysis, the site meets the requirements defined in Article 9 of the Wellington Unified Land Development Code, and the addition of a northbound left turn lane is required at the site driveway.

A proportionate share calculation was also conducted at the intersection of 120th Avenue & SR 7 for the proposed improvements. It was determined that the proportionate share for the signalization of this intersection associated with the impact of this project is 2.82%.

Please contact me via telephone at (561) 840-0874 or via e-mail at <u>adam.kerr@kimley-horn.com</u> should you have any questions regarding this evaluation.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Digitally signed by Adam B Kerr Date: 2024.10.11 13:44:06 -04'00'

Adam B. Kerr, P.E. Transportation Engineer

Florida Registration Number 64773 Registry No. 35106

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